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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q1664

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

Table Of Contents for Q1664

1) VOLATILES DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 13
9) QC Data Summary For VOC-TCLVOA-10 14
- 9.1) Deuterated Monitoring Compound Summary 15
- 9.2) MS/MSD Summary 17
- 9.3) LCS/LCSD Summary 21
- 9.4) Method Blank Summary 25
- 9.5) GS/MS Tune Summary 27
- 9.6) Internal Standard Area and RT Summary 30

10) Sample Data 34
- 10.1) P001-BBDGA-001-01 35
- 10.2) P001-BBDGA-001-02 49
- 10.3) P001-BBDGA-002-01 63
- 10.4) P001-BBDGA-003-01 77
- 10.5) P001-BBDGA-004-01 91
- 10.6) P001-BBDGA-005-01 105
- 10.7) P001-BBDGA-006-01 119
- 10.8) P001-BBDGA-007-01 133
- 10.9) P001-BBDGA-008-01 147

11) Calibration Data Summary 161
- 11.1) Initial Calibration Data 162
  - 11.1.1) VY032725 162
- 11.2) Continued Calibration Data 537
  - 11.2.1) VY021682.D 537
  - 11.2.2) VY021731.D 597

12) QC Sample Data 657
- 12.1) Tune Raw Data 658
- 12.2) Method Blank Data 661
- 12.3) LCS Data 687

12.4) MS Data 797
12.5) MSD Data 852
13) Manual Integration 907
14) Analytical Runlogs 910
15) Percent Solid 920
16) Standard Prep Logs 922
17) VOC Preservation Log 1053
18) Shipping Document 1054
18.1) Chain Of Custody 1055
18.2) Lab Certificate 1064
18.3) Internal COC 1065

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

Cover Page

Order ID : Q1664

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q1664-01	P001-BBDGA-001-01
Q1664-02	P001-BBDGA-001-01MS
Q1664-03	P001-BBDGA-001-01MSD
Q1664-04	P001-BBDGA-001-01
Q1664-05	P001-BBDGA-001-01MS
Q1664-06	P001-BBDGA-001-01MSD
Q1664-07	P001-BBDGA-001-02
Q1664-08	P001-BBDGA-001-02
Q1664-09	P001-BBDGA-002-01
Q1664-10	P001-BBDGA-002-01
Q1664-11	P001-BBDGA-003-01
Q1664-12	P001-BBDGA-003-01
Q1664-13	P001-BBDGA-004-01
Q1664-14	P001-BBDGA-004-01
Q1664-15	P001-BBDGA-005-01
Q1664-16	P001-BBDGA-005-01
Q1664-17	P001-BBDGA-006-01
Q1664-18	P001-BBDGA-006-01
Q1664-19	P001-BBDGA-007-01
Q1664-20	P001-BBDGA-007-01
Q1664-21	P001-BBDGA-008-01
Q1664-22	P001-BBDGA-008-01

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

Signature : _____ **APPROVED** *By Nimisha Pandya, QA/QC Supervisor at 11:07 am, Apr 08, 2025* Date: 4/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1664
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
22 Solid samples were received on 03/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
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 met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for P001-BBDGA-001-01MS passing in parent sample and MSD therefore no correction action taken.
The Retention Times were acceptable for all samples.

The MS {Q1664-02MS} with File ID: VY021740.D recoveries met the requirements for all compounds except for Methyl Acetate[462%] due to matrix interference.
The MSD {Q1664-03MSD} with File ID: VY021741.D recoveries met the acceptable requirements except for Methyl Acetate[369%] due to matrix interference.
The RPD for {Q1664-03MSD} with File ID: VY021741.D met criteria except for Acetone[22%], Methyl Acetate[22%] due to difference in results of MS and MSD.

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

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

The %RSD is greater than 20% in the Initial Calibration method (82Y032725S.M) for Methylene Chloride is passing on Linear Regression. The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

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

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

Where
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Df = Dilution factor
Ws= Weight of sample
D= $\frac{100 - \%moisture}{100}$

F. Additional Comments:
Trip Blank was not provided with this set of samples.

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

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

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:07 am, Apr 08, 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

CHEMTECH PROJECT NUMBER: Q1664 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 (82Y032725S.M) for Methylene Chloride is passing on Linear Regression. The Continuous Calibration met the requirements.			✓
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 MS {Q1664-02MS} with File ID: VY021740.D recoveries met the requirements for all compounds except for Methyl Acetate[462%] due to matrix interference. The MSD {Q1664-03MSD} with File ID: VY021741.D recoveries met the acceptable requirements except for Methyl Acetate[369%] due to matrix interference. The RPD for {Q1664-03MSD} with File ID: VY021741.D met criteria except for Acetone[22%], Methyl Acetate[22%] due to difference in results of MS and MSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for P001-BBDGA-001-01MS passing in parent sample and MSD therefore no correction action taken.		✓	

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

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

ADDITIONAL COMMENTS:

Trip Blank was not provided with this set of samples.

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

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

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 11:00 am, Apr 08, 2025

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1664

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

QA Review Signature: SOHIL JODHANI **Date:** 04/05/2025

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

LAB CHRONICLE

OrderID:	Q1664	**OrderDate:**	3/27/2025 10:47:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	I31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1664-01	**P001-BBDGA-001-01**	**SOIL**			**03/26/25**			**03/27/25**
			VOC-TCLVOA-10	8260D			03/28/25	
Q1664-04	**P001-BBDGA-001-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP VOA	8260D			03/28/25	
Q1664-07	**P001-BBDGA-001-02**	**SOIL**			**03/26/25**			**03/27/25**
			VOC-TCLVOA-10	8260D			03/28/25	
Q1664-08	**P001-BBDGA-001-02**	**Water**			**03/26/25**			**03/27/25**
			SPLP VOA	8260D			03/28/25	
Q1664-09	**P001-BBDGA-002-01**	**SOIL**			**03/26/25**			**03/27/25**
			VOC-TCLVOA-10	8260D			03/28/25	
Q1664-10	**P001-BBDGA-002-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP VOA	8260D			03/28/25	
Q1664-11	**P001-BBDGA-003-01**	**SOIL**			**03/26/25**			**03/27/25**
			VOC-TCLVOA-10	8260D			03/28/25	
Q1664-12	**P001-BBDGA-003-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP VOA	8260D			03/28/25	
Q1664-13	**P001-BBDGA-004-01**	**SOIL**			**03/26/25**			**03/27/25**
			VOC-TCLVOA-10	8260D			03/28/25	
Q1664-14	**P001-BBDGA-004-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP VOA	8260D			03/28/25	
Q1664-15	**P001-BBDGA-005-01**	**SOIL**			**03/26/25**			**03/27/25**
			VOC-TCLVOA-10	8260D			03/28/25	
Q1664-16	**P001-BBDGA-005-01**	**Water**			**03/26/25**			**03/27/25**

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

LAB CHRONICLE

			SPLP VOA	8260D		03/28/25
Q1664-17	**P001-BBDGA-006-01**	**SOIL**			**03/26/25**	**03/27/25**
			VOC-TCLVOA-10	8260D		03/28/25
Q1664-18	**P001-BBDGA-006-01**	**Water**			**03/26/25**	**03/27/25**
			SPLP VOA	8260D		03/28/25
Q1664-19	**P001-BBDGA-007-01**	**SOIL**			**03/26/25**	**03/27/25**
			VOC-TCLVOA-10	8260D		03/28/25
Q1664-20	**P001-BBDGA-007-01**	**Water**			**03/26/25**	**03/27/25**
			SPLP VOA	8260D		03/28/25
Q1664-21	**P001-BBDGA-008-01**	**SOIL**			**03/26/25**	**03/27/25**
			VOC-TCLVOA-10	8260D		03/28/25
Q1664-22	**P001-BBDGA-008-01**	**Water**			**03/26/25**	**03/27/25**
			SPLP VOA	8260D		03/28/25

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

Hit Summary Sheet
SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**P001-BBDGA-001-01**							
Q1664-01	P001-BBDGA-001-	SOIL	Methylene Chloride	5.90	J	4.00	11.3	ug/Kg
			Total Voc :	5.90				
			Total Concentration:	5.90				
Client ID:	**P001-BBDGA-001-02**							
Q1664-07	P001-BBDGA-001-	SOIL	Methylene Chloride	9.60	J	5.60	15.8	ug/Kg
			Total Voc :	9.60				
			Total Concentration:	9.60				
Client ID:	**P001-BBDGA-002-01**							
Q1664-09	P001-BBDGA-002-	SOIL	Methylene Chloride	8.40	J	4.70	13.3	ug/Kg
			Total Voc :	8.40				
			Total Concentration:	8.40				
Client ID:	**P001-BBDGA-003-01**							
Q1664-11	P001-BBDGA-003-	SOIL	Methylene Chloride	11.0		3.80	10.9	ug/Kg
			Total Voc :	11.0				
			Total Concentration:	11.0				
Client ID:	**P001-BBDGA-004-01**							
Q1664-13	P001-BBDGA-004-	SOIL	Methylene Chloride	6.30	J	3.40	9.60	ug/Kg
			Total Voc :	6.30				
			Total Concentration:	6.30				
Client ID:	**P001-BBDGA-005-01**							
Q1664-15	P001-BBDGA-005-	SOIL	Methylene Chloride	11.8	J	6.30	17.9	ug/Kg
			Total Voc :	11.8				
			Total Concentration:	11.8				
Client ID:	**P001-BBDGA-006-01**							
Q1664-17	P001-BBDGA-006-	SOIL	Methylene Chloride	5.90	J	3.30	9.30	ug/Kg
			Total Voc :	5.90				
			Total Concentration:	5.90				
Client ID:	**P001-BBDGA-007-01**							
Q1664-19	P001-BBDGA-007-	SOIL	Methylene Chloride	9.50	J	4.40	12.4	ug/Kg
			Total Voc :	9.50				
			Total Concentration:	9.50				
Client ID:	**P001-BBDGA-008-01**							
Q1664-21	P001-BBDGA-008-	SOIL	Methylene Chloride	7.90	J	3.70	10.3	ug/Kg
			Total Voc :	7.90				
			Total Concentration:	7.90				

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1664-01	P001-BBDGA-001-01	1,2-Dichloroethane-d4	50	58.0	116	63	155
		Dibromofluoromethane	50	52.7	105	70	134
		Toluene-d8	50	50.0	100	74	123
		4-Bromofluorobenzene	50	45.6	91	38	136
Q1664-02MS	P001-BBDGA-001-01MS	1,2-Dichloroethane-d4	50	64.7	129	63	155
		Dibromofluoromethane	50	60.3	121	70	134
		Toluene-d8	50	60.4	121	74	123
		4-Bromofluorobenzene	50	59.7	119	38	136
Q1664-03MSD	P001-BBDGA-001-01MSD	1,2-Dichloroethane-d4	50	53.5	107	63	155
		Dibromofluoromethane	50	48.3	97	70	134
		Toluene-d8	50	47.2	94	74	123
		4-Bromofluorobenzene	50	47.3	95	38	136
Q1664-07	P001-BBDGA-001-02	1,2-Dichloroethane-d4	50	57.5	115	63	155
		Dibromofluoromethane	50	52.4	105	70	134
		Toluene-d8	50	50.2	100	74	123
		4-Bromofluorobenzene	50	45.6	91	38	136
Q1664-09	P001-BBDGA-002-01	1,2-Dichloroethane-d4	50	58.2	116	63	155
		Dibromofluoromethane	50	52.4	105	70	134
		Toluene-d8	50	49.8	100	74	123
		4-Bromofluorobenzene	50	46.0	92	38	136
Q1664-11	P001-BBDGA-003-01	1,2-Dichloroethane-d4	50	59.0	118	63	155
		Dibromofluoromethane	50	52.3	105	70	134
		Toluene-d8	50	49.7	99	74	123
		4-Bromofluorobenzene	50	45.5	91	38	136
Q1664-13	P001-BBDGA-004-01	1,2-Dichloroethane-d4	50	62.1	124	63	155
		Dibromofluoromethane	50	54.1	108	70	134
		Toluene-d8	50	50.5	101	74	123
		4-Bromofluorobenzene	50	49.6	99	38	136
Q1664-15	P001-BBDGA-005-01	1,2-Dichloroethane-d4	50	57.7	115	63	155
		Dibromofluoromethane	50	52.5	105	70	134
		Toluene-d8	50	50.4	101	74	123
		4-Bromofluorobenzene	50	46.3	93	38	136
Q1664-17	P001-BBDGA-006-01	1,2-Dichloroethane-d4	50	57.0	114	63	155
		Dibromofluoromethane	50	52.7	105	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	45.7	91	38	136
Q1664-19	P001-BBDGA-007-01	1,2-Dichloroethane-d4	50	59.9	120	63	155
		Dibromofluoromethane	50	53.5	107	70	134
		Toluene-d8	50	49.9	100	74	123
		4-Bromofluorobenzene	50	46.0	92	38	136
Q1664-21	P001-BBDGA-008-01	1,2-Dichloroethane-d4	50	56.4	113	63	155
		Dibromofluoromethane	50	51.6	103	70	134
		Toluene-d8	50	50.1	100	74	123
		4-Bromofluorobenzene	50	45.2	90	38	136
VY0328SBL01	VY0328SBL01	1,2-Dichloroethane-d4	50	55.5	111	63	155
		Dibromofluoromethane	50	52.6	105	70	134
		Toluene-d8	50	50.0	100	74	123
		4-Bromofluorobenzene	50	44.0	88	38	136
VY0328SBS01	VY0328SBS01	1,2-Dichloroethane-d4	50	54.3	109	63	155
		Dibromofluoromethane	50	55.8	112	70	134

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

Surrogate Summary

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VY0328SBS01	VY0328SBS01	Toluene-d8	50	57.2	114	74	123
		4-Bromofluorobenzene	50	55.1	110	38	136
VY0401SBL01	VY0401SBL01	1,2-Dichloroethane-d4	50	52.8	106	63	155
		Dibromofluoromethane	50	51.6	103	70	134
		Toluene-d8	50	49.4	99	74	123
		4-Bromofluorobenzene	50	47.3	95	38	136
VY0401SBS01	VY0401SBS01	1,2-Dichloroethane-d4	50	52.3	105	63	155
		Dibromofluoromethane	50	54.1	108	70	134
		Toluene-d8	50	54.9	110	74	123
		4-Bromofluorobenzene	50	54.3	109	38	136

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1664-02MS		**Client Sample ID : P001-BBDGA-001-01MS**						**Datafile :** VY021740.D			
Dichlorodifluoromethane	65	0	80.1	ug/Kg	123				40	150	
Chloromethane	65	0	70.9	ug/Kg	109				24	175	
Vinyl chloride	65	0	74.6	ug/Kg	115				21	175	
Bromomethane	65	0	67.6	ug/Kg	104				46	150	
Chloroethane	65	0	72.5	ug/Kg	112				30	175	
Trichlorofluoromethane	65	0	80.0	ug/Kg	123				53	150	
1,1,2-Trichlorotrifluoroethane	65	0	82.1	ug/Kg	126				60	135	
1,1-Dichloroethene	65	0	77.5	ug/Kg	119				63	136	
Acetone	320	0	490	ug/Kg	153				41	175	
Carbon disulfide	65	0	76.3	ug/Kg	117				45	126	
Methyl tert-butyl Ether	65	0	75.9	ug/Kg	117				56	175	
Methyl Acetate	65	0	300	ug/Kg	462	*			32	175	
Methylene Chloride	65	5.90	100	ug/Kg	145				59	175	
trans-1,2-Dichloroethene	65	0	76.2	ug/Kg	117				63	137	
1,1-Dichloroethane	65	0	75.4	ug/Kg	116				62	154	
Cyclohexane	65	0	75.1	ug/Kg	116				41	131	
2-Butanone	320	0	420	ug/Kg	131				48	174	
Carbon Tetrachloride	65	0	75.3	ug/Kg	116				48	149	
cis-1,2-Dichloroethene	65	0	75.3	ug/Kg	116				59	153	
Bromochloromethane	65	0	75.9	ug/Kg	117				54	172	
Chloroform	65	0	75.2	ug/Kg	116				60	159	
1,1,1-Trichloroethane	65	0	77.3	ug/Kg	119				60	149	
Methylcyclohexane	65	0	75.9	ug/Kg	117				19	135	
Benzene	65	0	71.8	ug/Kg	110				59	140	
1,2-Dichloroethane	65	0	72.9	ug/Kg	112				63	153	
Trichloroethene	65	0	74.6	ug/Kg	115				45	154	
1,2-Dichloropropane	65	0	73.9	ug/Kg	114				67	141	
Bromodichloromethane	65	0	72.7	ug/Kg	112				54	160	
4-Methyl-2-Pentanone	320	0	360	ug/Kg	113				54	164	
Toluene	65	0	73.4	ug/Kg	113				61	134	
t-1,3-Dichloropropene	65	0	71.2	ug/Kg	110				47	155	
cis-1,3-Dichloropropene	65	0	70.5	ug/Kg	108				56	141	
1,1,2-Trichloroethane	65	0	76.7	ug/Kg	118				69	148	
2-Hexanone	320	0	350	ug/Kg	109				43	164	
Dibromochloromethane	65	0	75.2	ug/Kg	116				65	143	
1,2-Dibromoethane	65	0	75.7	ug/Kg	116				63	144	
Tetrachloroethene	65	0	87.4	ug/Kg	134				27	175	
Chlorobenzene	65	0	67.0	ug/Kg	103				66	127	
Ethyl Benzene	65	0	67.0	ug/Kg	103				54	134	
m/p-Xylenes	130	0	140	ug/Kg	108				51	137	
o-Xylene	65	0	69.2	ug/Kg	106				57	139	
Styrene	65	0	69.1	ug/Kg	106				47	136	
Bromoform	65	0	71.6	ug/Kg	110				64	144	
Isopropylbenzene	65	0	63.1	ug/Kg	97				44	160	
1,1,2,2-Tetrachloroethane	65	0	62.9	ug/Kg	97				18	175	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	65	0	62.7	ug/Kg	96				55	131	
1,4-Dichlorobenzene	65	0	62.5	ug/Kg	96				57	129	
1,2-Dichlorobenzene	65	0	64.3	ug/Kg	99				54	140	
1,2-Dibromo-3-Chloropropane	65	0	68.0	ug/Kg	105				46	175	
1,2,4-Trichlorobenzene	65	0	53.2	ug/Kg	82				12	127	
1,2,3-Trichlorobenzene	65	0	54.7	ug/Kg	84				10	160	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1664-03MSD	**Client Sample ID :** P001-BBDGA-001-01MSD							**Datafile :** VY021741.D			
Dichlorodifluoromethane	59.7	0	68.8	ug/Kg	115		7		40	150	20
Chloromethane	59.7	0	66.2	ug/Kg	111		2		24	175	20
Vinyl chloride	59.7	0	67.6	ug/Kg	113		1		21	175	20
Bromomethane	59.7	0	63.6	ug/Kg	107		2		46	150	20
Chloroethane	59.7	0	65.5	ug/Kg	110		2		30	175	20
Trichlorofluoromethane	59.7	0	67.9	ug/Kg	114		8		53	150	20
1,1,2-Trichlorotrifluoroethane	59.7	0	68.6	ug/Kg	115		9		60	135	20
1,1-Dichloroethene	59.7	0	69.4	ug/Kg	116		3		63	136	20
Acetone	300	0	370	ug/Kg	123		22	*	41	175	20
Carbon disulfide	59.7	0	68.2	ug/Kg	114		3		45	126	20
Methyl tert-butyl Ether	59.7	0	66.3	ug/Kg	111		5		56	175	20
Methyl Acetate	59.7	0	220	ug/Kg	369	*	22	*	32	175	20
Methylene Chloride	59.7	5.90	85.4	ug/Kg	133		9		59	175	20
trans-1,2-Dichloroethene	59.7	0	70.3	ug/Kg	118		0		63	137	20
1,1-Dichloroethane	59.7	0	69.4	ug/Kg	116		0		62	154	20
Cyclohexane	59.7	0	66.6	ug/Kg	112		4		41	131	20
2-Butanone	300	0	330	ug/Kg	110		18		48	174	20
Carbon Tetrachloride	59.7	0	61.6	ug/Kg	103		12		48	149	20
cis-1,2-Dichloroethene	59.7	0	70.1	ug/Kg	117		1		59	153	20
Bromochloromethane	59.7	0	64.6	ug/Kg	108		8		54	172	20
Chloroform	59.7	0	69.7	ug/Kg	117		1		60	159	20
1,1,1-Trichloroethane	59.7	0	69.4	ug/Kg	116		2		60	149	20
Methylcyclohexane	59.7	0	61.6	ug/Kg	103		12		19	135	20
Benzene	59.7	0	60.3	ug/Kg	101		9		59	140	20
1,2-Dichloroethane	59.7	0	58.9	ug/Kg	99		13		63	153	20
Trichloroethene	59.7	0	62.2	ug/Kg	104		10		45	154	20
1,2-Dichloropropane	59.7	0	61.2	ug/Kg	103		10		67	141	20
Bromodichloromethane	59.7	0	61.0	ug/Kg	102		9		54	160	20
4-Methyl-2-Pentanone	300	0	280	ug/Kg	93		19		54	164	20
Toluene	59.7	0	61.6	ug/Kg	103		9		61	134	20
t-1,3-Dichloropropene	59.7	0	60.2	ug/Kg	101		8		47	155	20
cis-1,3-Dichloropropene	59.7	0	60.4	ug/Kg	101		7		56	141	20
1,1,2-Trichloroethane	59.7	0	59.4	ug/Kg	99		17		69	148	20
2-Hexanone	300	0	270	ug/Kg	90		19		43	164	20
Dibromochloromethane	59.7	0	60.9	ug/Kg	102		13		65	143	20
1,2-Dibromoethane	59.7	0	59.9	ug/Kg	100		15		63	144	20
Tetrachloroethene	59.7	0	74.7	ug/Kg	125		7		27	175	20
Chlorobenzene	59.7	0	60.4	ug/Kg	101		2		66	127	20
Ethyl Benzene	59.7	0	62.3	ug/Kg	104		1		54	134	20
m/p-Xylenes	120	0	120	ug/Kg	100		7		51	137	20
o-Xylene	59.7	0	62.9	ug/Kg	105		1		57	139	20
Styrene	59.7	0	63.5	ug/Kg	106		0		47	136	20
Bromoform	59.7	0	59.8	ug/Kg	100		9		64	144	20
Isopropylbenzene	59.7	0	61.7	ug/Kg	103		6		44	160	20
1,1,2,2-Tetrachloroethane	59.7	0	55.0	ug/Kg	92		5		18	175	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	59.7	0	59.2	ug/Kg	99		3		55	131	20
1,4-Dichlorobenzene	59.7	0	58.6	ug/Kg	98		2		57	129	20
1,2-Dichlorobenzene	59.7	0	59.2	ug/Kg	99		0		54	140	20
1,2-Dibromo-3-Chloropropane	59.7	0	55.2	ug/Kg	92		12		46	175	20
1,2,4-Trichlorobenzene	59.7	0	50.7	ug/Kg	85		4		12	127	20
1,2,3-Trichlorobenzene	59.7	0	50.3	ug/Kg	84		0		10	160	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.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D **Datafile :** VY021684.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0328SBS01	Dichlorodifluoromethane	20	19.5	ug/Kg	98			64	136	
	Chloromethane	20	20.4	ug/Kg	102			70	130	
	Vinyl chloride	20	19.3	ug/Kg	97			72	129	
	Bromomethane	20	20.9	ug/Kg	104			58	141	
	Chloroethane	20	20.0	ug/Kg	100			69	130	
	Trichlorofluoromethane	20	20.0	ug/Kg	100			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/Kg	101			81	123	
	1,1-Dichloroethene	20	19.5	ug/Kg	98			79	121	
	Acetone	100	77.4	ug/Kg	77			60	131	
	Carbon disulfide	20	19.8	ug/Kg	99			45	154	
	Methyl tert-butyl Ether	20	18.5	ug/Kg	93			77	129	
	Methyl Acetate	20	19.3	ug/Kg	97			69	149	
	Methylene Chloride	20	19.5	ug/Kg	98			56	174	
	trans-1,2-Dichloroethene	20	20.0	ug/Kg	100			80	123	
	1,1-Dichloroethane	20	20.1	ug/Kg	101			82	123	
	Cyclohexane	20	19.3	ug/Kg	97			76	122	
	2-Butanone	100	84.9	ug/Kg	85			69	131	
	Carbon Tetrachloride	20	20.2	ug/Kg	101			76	129	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			82	123	
	Bromochloromethane	20	20.5	ug/Kg	103			80	127	
	Chloroform	20	20.4	ug/Kg	102			82	125	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			80	126	
	Methylcyclohexane	20	19.5	ug/Kg	98			77	123	
	Benzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichloroethane	20	19.5	ug/Kg	98			81	126	
	Trichloroethene	20	20.2	ug/Kg	101			83	122	
	1,2-Dichloropropane	20	20.0	ug/Kg	100			83	122	
	Bromodichloromethane	20	20.1	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	90.4	ug/Kg	90			70	135	
	Toluene	20	20.5	ug/Kg	103			83	122	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			78	124	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			81	122	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			82	125	
	2-Hexanone	100	89.3	ug/Kg	89			66	138	
	Dibromochloromethane	20	19.7	ug/Kg	99			79	125	
	1,2-Dibromoethane	20	19.1	ug/Kg	96			80	125	
	Tetrachloroethene	20	20.9	ug/Kg	104			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	40.0	ug/Kg	100			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	19.9	ug/Kg	100			82	124	
	Bromoform	20	19.2	ug/Kg	96			75	127	
	Isopropylbenzene	20	18.9	ug/Kg	95			82	124	
	1,1,2,2-Tetrachloroethane	20	18.4	ug/Kg	92			77	127	
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98			83	122	
	1,4-Dichlorobenzene	20	19.1	ug/Kg	96			84	121	
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96			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.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D **Datafile :** VY021684.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0328SBS01	1,2-Dibromo-3-Chloropropane	20	17.4	ug/Kg	87			66	134	
	1,2,4-Trichlorobenzene	20	17.8	ug/Kg	89			78	127	
	1,2,3-Trichlorobenzene	20	17.8	ug/Kg	89			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.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D **Datafile :** VY021733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0401SBS01	Dichlorodifluoromethane	20	19.4	ug/Kg	97			64	136	
	Chloromethane	20	18.1	ug/Kg	91			70	130	
	Vinyl chloride	20	18.3	ug/Kg	92			72	129	
	Bromomethane	20	19.7	ug/Kg	99			58	141	
	Chloroethane	20	18.4	ug/Kg	92			69	130	
	Trichlorofluoromethane	20	19.7	ug/Kg	99			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/Kg	101			81	123	
	1,1-Dichloroethene	20	19.7	ug/Kg	99			79	121	
	Acetone	100	94.3	ug/Kg	94			60	131	
	Carbon disulfide	20	18.6	ug/Kg	93			45	154	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	18.6	ug/Kg	93			69	149	
	Methylene Chloride	20	19.3	ug/Kg	97			56	174	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			80	123	
	1,1-Dichloroethane	20	19.6	ug/Kg	98			82	123	
	Cyclohexane	20	18.8	ug/Kg	94			76	122	
	2-Butanone	100	93.7	ug/Kg	94			69	131	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			76	129	
	cis-1,2-Dichloroethene	20	19.6	ug/Kg	98			82	123	
	Bromochloromethane	20	19.3	ug/Kg	97			80	127	
	Chloroform	20	19.4	ug/Kg	97			82	125	
	1,1,1-Trichloroethane	20	19.8	ug/Kg	99			80	126	
	Methylcyclohexane	20	19.6	ug/Kg	98			77	123	
	Benzene	20	19.9	ug/Kg	100			84	121	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			81	126	
	Trichloroethene	20	20.5	ug/Kg	103			83	122	
	1,2-Dichloropropane	20	20.1	ug/Kg	101			83	122	
	Bromodichloromethane	20	19.7	ug/Kg	99			82	123	
	4-Methyl-2-Pentanone	100	94.6	ug/Kg	95			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98			81	122	
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100			82	125	
	2-Hexanone	100	94.9	ug/Kg	95			66	138	
	Dibromochloromethane	20	20.0	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			80	125	
	Tetrachloroethene	20	20.8	ug/Kg	104			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.5	ug/Kg	99			83	124	
	o-Xylene	20	20.0	ug/Kg	100			83	123	
	Styrene	20	19.9	ug/Kg	100			82	124	
	Bromoform	20	20.5	ug/Kg	103			75	127	
	Isopropylbenzene	20	19.8	ug/Kg	99			82	124	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/Kg	94			77	127	
	1,3-Dichlorobenzene	20	19.8	ug/Kg	99			83	122	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			84	121	
	1,2-Dichlorobenzene	20	19.7	ug/Kg	99			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.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D **Datafile :** VY021733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0401SBS01	1,2-Dibromo-3-Chloropropane	20	20.1	ug/Kg	101			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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0328SBL01

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021683.D Lab Sample ID: VY0328SBL01

Date Analyzed: 03/28/2025 Time Analyzed: 11:21

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
VY0328SBS01	VY0328SBS01	VY021684.D	03/28/2025
P001-BBDGA-001-01	Q1664-01	VY021695.D	03/28/2025
P001-BBDGA-001-02	Q1664-07	VY021698.D	03/28/2025
P001-BBDGA-002-01	Q1664-09	VY021699.D	03/28/2025
P001-BBDGA-003-01	Q1664-11	VY021700.D	03/28/2025
P001-BBDGA-004-01	Q1664-13	VY021701.D	03/28/2025
P001-BBDGA-005-01	Q1664-15	VY021702.D	03/28/2025
P001-BBDGA-006-01	Q1664-17	VY021703.D	03/28/2025
P001-BBDGA-007-01	Q1664-19	VY021704.D	03/28/2025
P001-BBDGA-008-01	Q1664-21	VY021705.D	03/28/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0401SBL01

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021732.D Lab Sample ID: VY0401SBL01

Date Analyzed: 04/01/2025 Time Analyzed: 10:52

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
VY0401SBS01	VY0401SBS01	VY021733.D	04/01/2025
P001-BBDGA-001-01MS	Q1664-02MS	VY021740.D	04/01/2025
P001-BBDGA-001-01MSD	Q1664-03MSD	VY021741.D	04/01/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021655.D BFB Injection Date: 03/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:23

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	20.4
75	30.0 - 60.0% of mass 95	53
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	1.7 (2) 1
174	50.0 - 100.0% of mass 95	86.7
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.9 (95.6) 1
177	5.0 - 9.0% of mass 176	5.6 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY021656.D	03/27/2025	10:08
VSTDICC010	VSTDICC010	VY021657.D	03/27/2025	10:31
VSTDICC020	VSTDICC020	VY021658.D	03/27/2025	10:54
VSTDICCC050	VSTDICCC050	VY021659.D	03/27/2025	11:16
VSTDICC100	VSTDICC100	VY021660.D	03/27/2025	11:39
VSTDICC150	VSTDICC150	VY021661.D	03/27/2025	12:02

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021681.D BFB Injection Date: 03/28/2025

Instrument ID: MSVOA_Y BFB Injection Time: 10:11

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	20.3
75	30.0 - 60.0% of mass 95	53.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1.3 (1.6) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.2 (7.5) 1
176	95.0 - 101.0% of mass 174	79.6 (95.5) 1
177	5.0 - 9.0% of mass 176	5.3 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021682.D	03/28/2025	10:42
VY0328SBL01	VY0328SBL01	VY021683.D	03/28/2025	11:21
VY0328SBS01	VY0328SBS01	VY021684.D	03/28/2025	11:55
P001-BBDGA-001-01	Q1664-01	VY021695.D	03/28/2025	16:25
P001-BBDGA-001-02	Q1664-07	VY021698.D	03/28/2025	17:35
P001-BBDGA-002-01	Q1664-09	VY021699.D	03/28/2025	17:58
P001-BBDGA-003-01	Q1664-11	VY021700.D	03/28/2025	18:22
P001-BBDGA-004-01	Q1664-13	VY021701.D	03/28/2025	18:45
P001-BBDGA-005-01	Q1664-15	VY021702.D	03/28/2025	19:09
P001-BBDGA-006-01	Q1664-17	VY021703.D	03/28/2025	19:32
P001-BBDGA-007-01	Q1664-19	VY021704.D	03/28/2025	19:55
P001-BBDGA-008-01	Q1664-21	VY021705.D	03/28/2025	20:19

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021730.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:35

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	20.2
75	30.0 - 60.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	83.4
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	79.4 (95.2) 1
177	5.0 - 9.0% of mass 176	5.4 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021731.D	04/01/2025	10:13
VY0401SBL01	VY0401SBL01	VY021732.D	04/01/2025	10:52
VY0401SBS01	VY0401SBS01	VY021733.D	04/01/2025	11:30
P001-BBDGA-001-01MS	Q1664-02MS	VY021740.D	04/01/2025	14:42
P001-BBDGA-001-01MSD	Q1664-03MSD	VY021741.D	04/01/2025	15:05

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021682.D Date Analyzed: 03/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:42

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	207038	7.71	329996	8.61	297102	11.41
UPPER LIMIT	414076	8.207	659992	9.11	594204	11.914
LOWER LIMIT	103519	7.207	164998	8.11	148551	10.914
EPA SAMPLE NO.						
P001-BBDGA-001-01	213615	7.71	412226	8.62	380697	11.42
P001-BBDGA-001-02	217380	7.71	413595	8.62	382406	11.41
P001-BBDGA-002-01	215190	7.71	416015	8.62	385659	11.41
P001-BBDGA-003-01	209464	7.71	407285	8.62	374541	11.41
P001-BBDGA-004-01	214112	7.71	408446	8.62	393352	11.42
P001-BBDGA-005-01	217469	7.71	415021	8.62	390450	11.41
P001-BBDGA-006-01	216084	7.71	410241	8.62	381513	11.41
P001-BBDGA-007-01	201473	7.71	380843	8.62	353621	11.42
P001-BBDGA-008-01	212653	7.71	414302	8.62	380711	11.41
VY0328SBL01	225314	7.71	417248	8.62	381501	11.41
VY0328SBS01	213072	7.71	334394	8.61	294300	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: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021682.D Date Analyzed: 03/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:42

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

	IS4 AREA #	RT #				
12 HOUR STD	151090	13.346				
UPPER LIMIT	302180	13.846				
LOWER LIMIT	75545	12.846				
EPA SAMPLE NO.						
P001-BBDGA-001-01	152172	13.35				
P001-BBDGA-001-02	153193	13.35				
P001-BBDGA-002-01	154270	13.35				
P001-BBDGA-003-01	150733	13.35				
P001-BBDGA-004-01	162086	13.35				
P001-BBDGA-005-01	155440	13.35				
P001-BBDGA-006-01	151297	13.35				
P001-BBDGA-007-01	142833	13.35				
P001-BBDGA-008-01	149200	13.35				
VY0328SBL01	144468	13.35				
VY0328SBS01	151928	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: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021731.D Date Analyzed: 04/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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	267136		7.71	417982		8.62	368359		11.41
UPPER LIMIT	534272		8.207	835964		9.115	736718		11.914
LOWER LIMIT	133568		7.207	208991		8.115	184180		10.914
EPA SAMPLE NO.									
P001-BBDGA-001-01MS	96561	*	7.71	161499	*	8.61	149082	*	11.41
P001-BBDGA-001-01MSD	194285		7.71	349081		8.62	308067		11.41
VY0401SBL01	281152		7.71	519589		8.61	477574		11.41
VY0401SBS01	262284		7.71	407591		8.62	358349		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: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VY021731.D Date Analyzed: 04/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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

	IS4 AREA #		RT #				
12 HOUR STD	185609		13.346				
UPPER LIMIT	371218		13.846				
LOWER LIMIT	92804.5		12.846				
EPA SAMPLE NO.							
P001-BBDGA-001-01MS	79914	*	13.35				
P001-BBDGA-001-01MSD	151305		13.35				
VY0401SBL01	199303		13.35				
VY0401SBS01	179014		13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021695.D	1		03/28/25 16:25	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.70	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	0.89	U	0.89	5.70	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.70	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.70	ug/Kg
67-64-1	Acetone	5.40	U	5.40	28.3	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.82	U	0.82	5.70	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.70	ug/Kg
75-09-2	Methylene Chloride	5.90	J	4.00	11.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.97	U	0.97	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.90	U	0.90	5.70	ug/Kg
110-82-7	Cyclohexane	0.89	U	0.89	5.70	ug/Kg
78-93-3	2-Butanone	7.40	U	7.40	28.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.85	U	0.85	5.70	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.70	ug/Kg
67-66-3	Chloroform	0.95	U	0.95	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.70	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.70	ug/Kg
71-43-2	Benzene	0.89	U	0.89	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.89	U	0.89	5.70	ug/Kg
79-01-6	Trichloroethene	0.92	U	0.92	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.70	ug/Kg
75-27-4	Bromodichloromethane	0.88	U	0.88	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	28.3	ug/Kg
108-88-3	Toluene	0.88	U	0.88	5.70	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021695.D	1		03/28/25 16:25	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.73	U	0.73	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.70	U	0.70	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.70	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	28.3	ug/Kg
124-48-1	Dibromochloromethane	0.98	U	0.98	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.99	U	0.99	5.70	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.70	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.70	ug/Kg
100-41-4	Ethyl Benzene	0.76	U	0.76	5.70	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.3	ug/Kg
95-47-6	o-Xylene	0.93	U	0.93	5.70	ug/Kg
100-42-5	Styrene	0.80	U	0.80	5.70	ug/Kg
75-25-2	Bromoform	0.97	U	0.97	5.70	ug/Kg
98-82-8	Isopropylbenzene	0.88	U	0.88	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.10	U	2.10	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.40	U	3.40	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.60	U	3.60	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.0		63 - 155	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		38 - 136	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	214000	7.707			
540-36-3	1,4-Difluorobenzene	412000	8.616			
3114-55-4	Chlorobenzene-d5	381000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	152000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021695.D	1		03/28/25 16:25	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021695.D
Acq On : 28 Mar 2025 16:25
Operator : SY/MD
Sample : Q1664-01
Misc : 4.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Quant Time: Mar 28 23:45:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

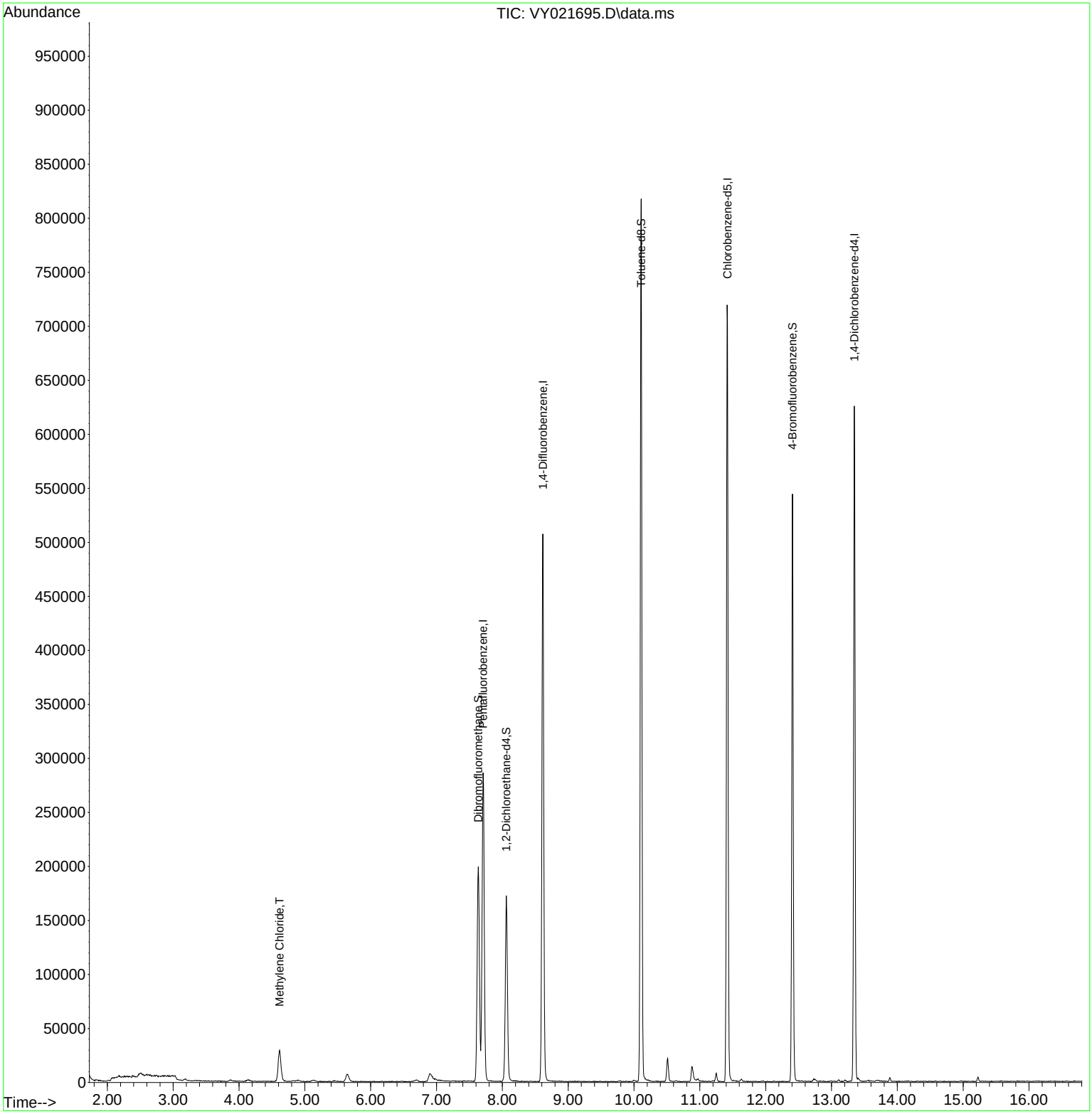
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	213615	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	412226	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	380697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	152172	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	134261	58.010	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.020%			
35) Dibromofluoromethane	7.634	113	140882	52.685	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.380%			
50) Toluene-d8	10.109	98	508493	49.985	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.980%			
62) 4-Bromofluorobenzene	12.408	95	156765	45.559	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.120%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	20200	5.254	ug/l	93

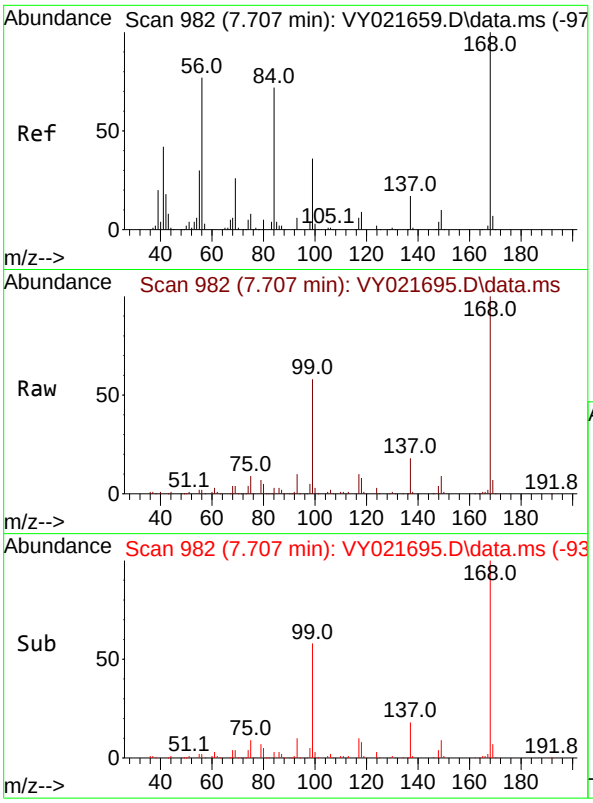
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021695.D
Acq On : 28 Mar 2025 16:25
Operator : SY/MD
Sample : Q1664-01
Misc : 4.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Quant Time: Mar 28 23:45:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



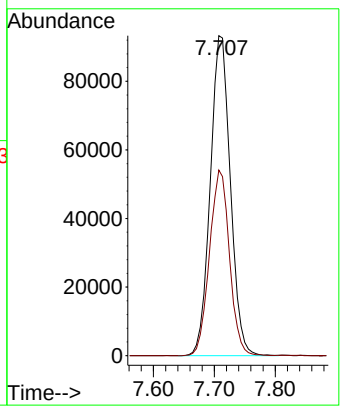


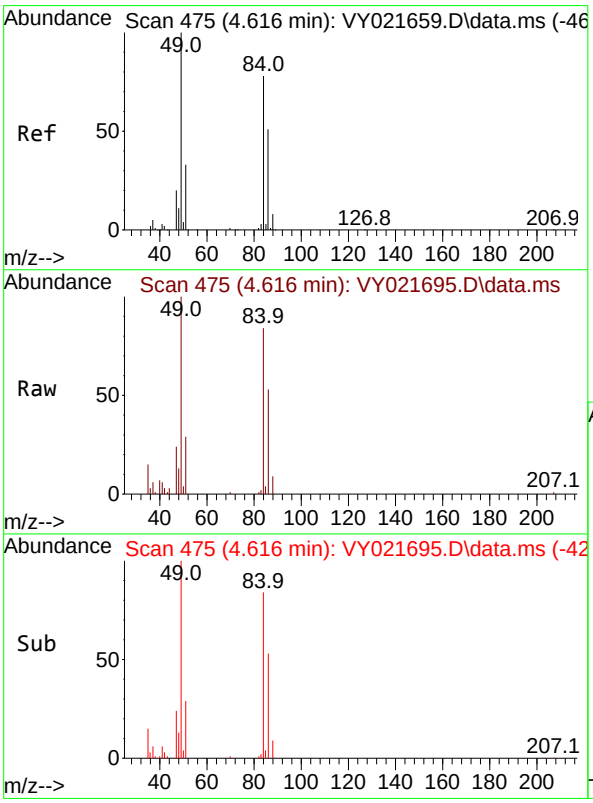
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:168 Resp: 213615

Ion	Ratio	Lower	Upper
168	100		
99	58.0	46.7	70.1

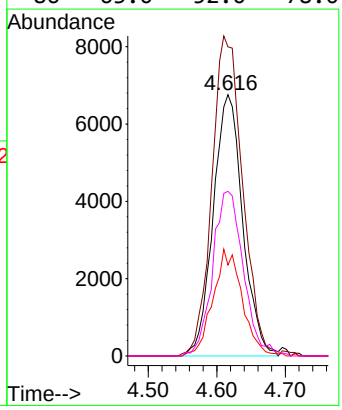


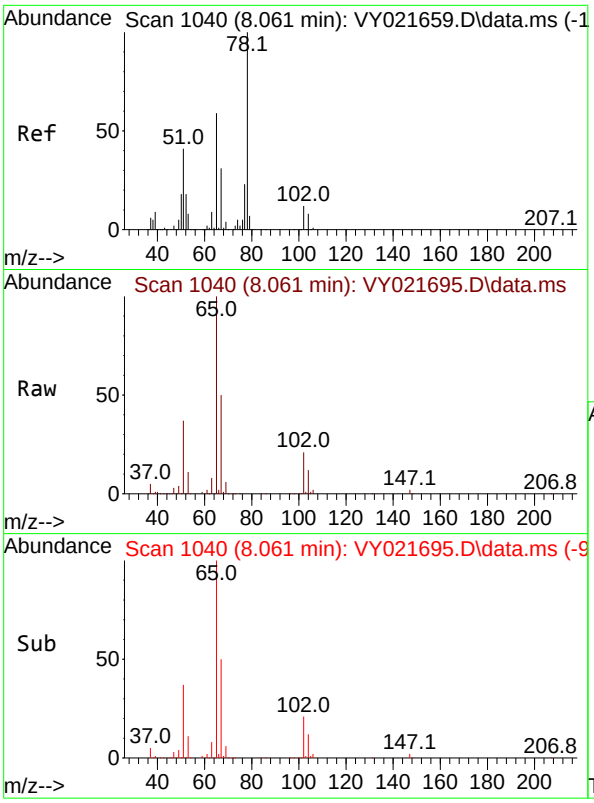


#20
Methylene Chloride
Concen: 5.254 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Tgt Ion: 84 Resp: 20200

Ion	Ratio	Lower	Upper
84	100		
49	118.3	102.8	154.2
51	34.8	33.5	50.3
86	63.0	52.0	78.0



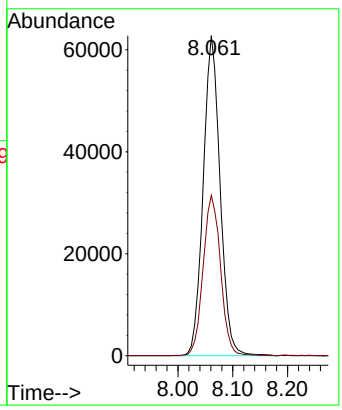


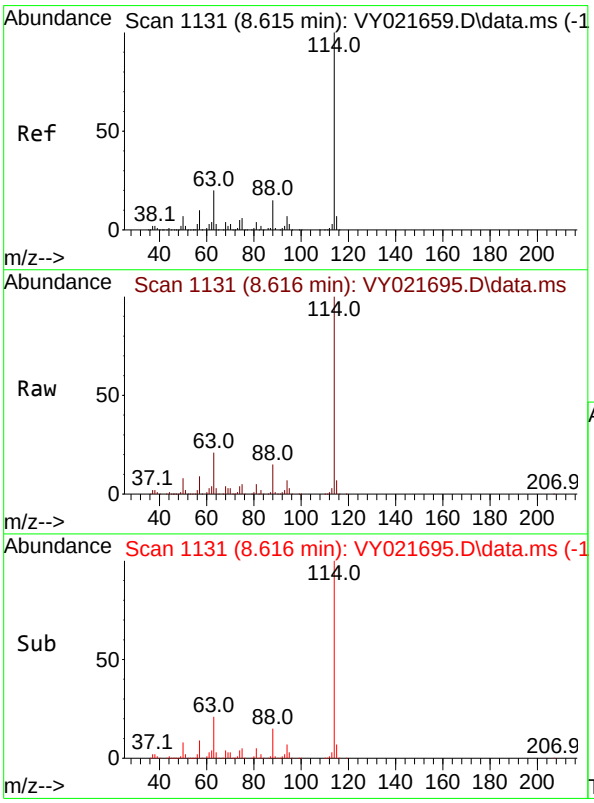
#33
1,2-Dichloroethane-d4
Concen: 58.010 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion: 65 Resp: 134261

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.6

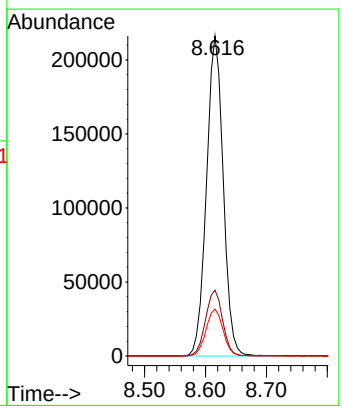


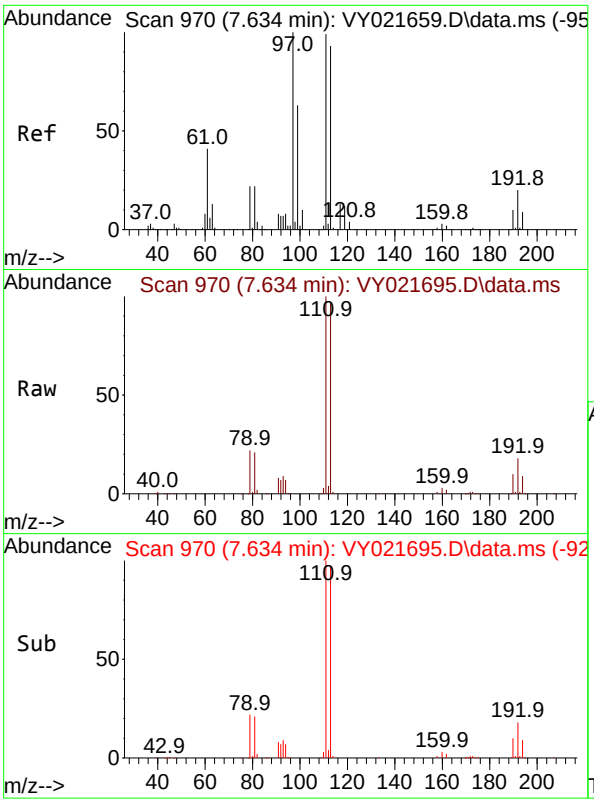


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Tgt Ion:114 Resp: 412226

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.2
88	14.7	0.0	29.8



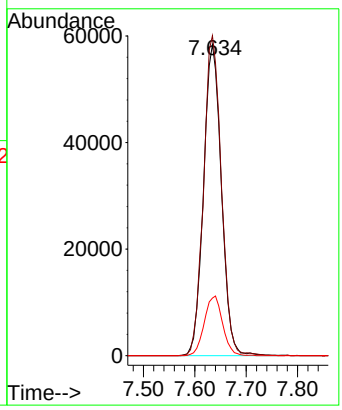


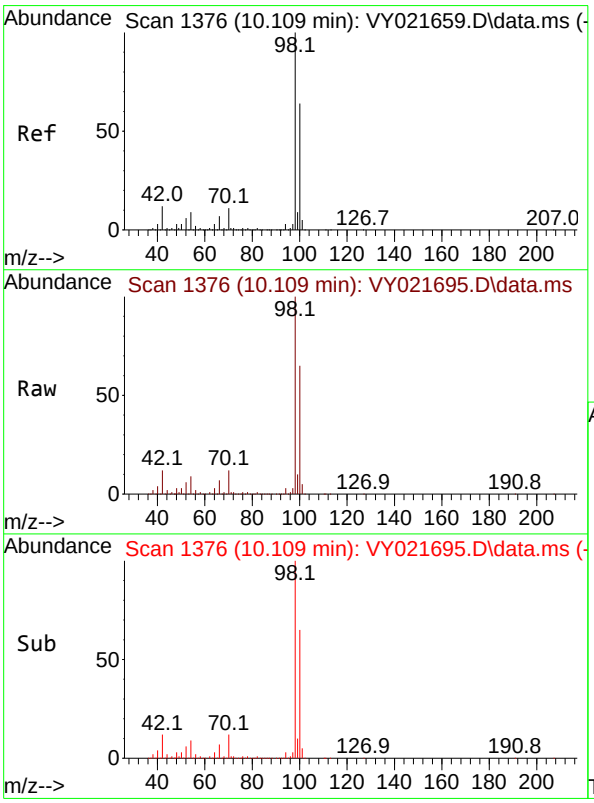
#35
Dibromofluoromethane
Concen: 52.685 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:113 Resp: 140882

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	19.7	16.2	24.4

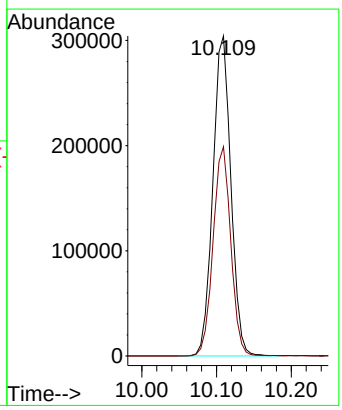


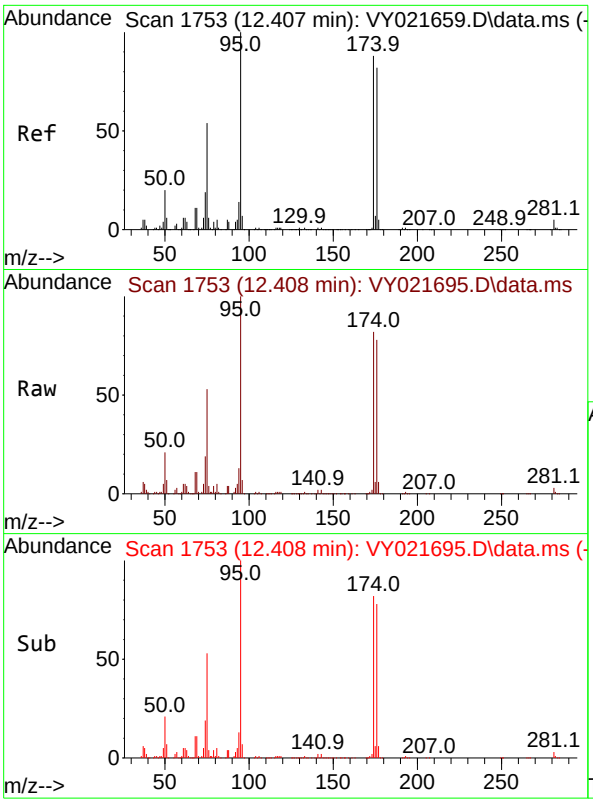


#50
Toluene-d8
Concen: 49.985 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Tgt Ion: 98 Resp: 508493

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.1	78.1



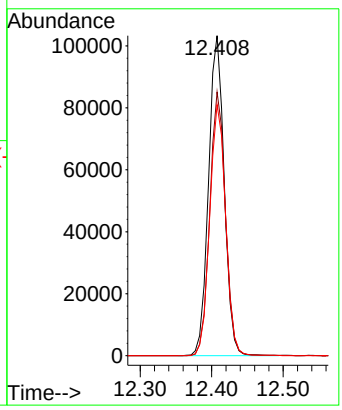


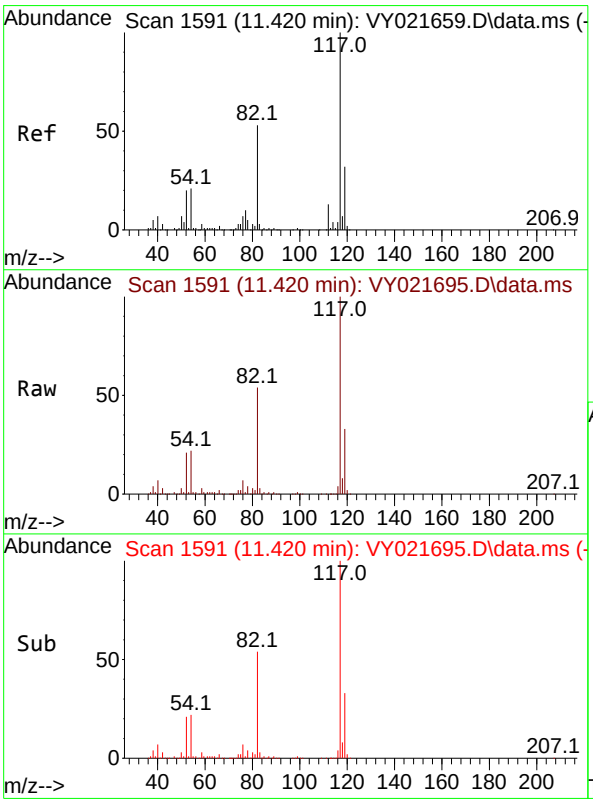
#62
4-Bromofluorobenzene
Concen: 45.559 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion: 95 Resp: 156765

Ion	Ratio	Lower	Upper
95	100		
174	82.6	0.0	170.8
176	79.8	0.0	162.0

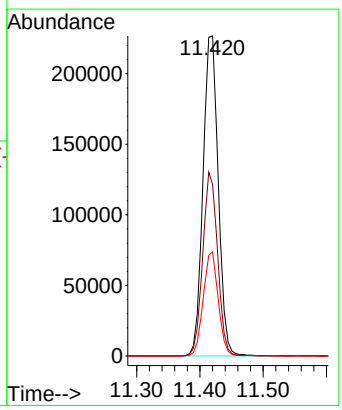


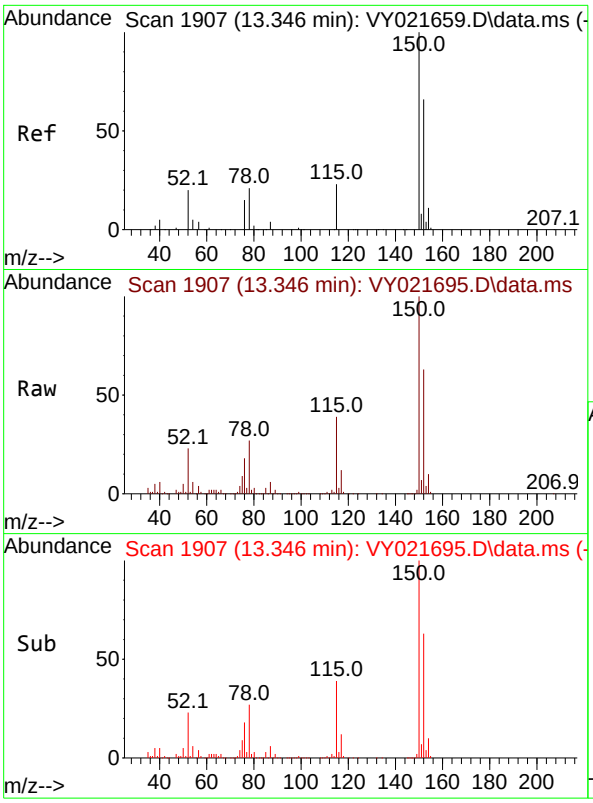


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Tgt Ion:117 Resp: 380697

Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.8	64.2
119	32.5	25.7	38.5



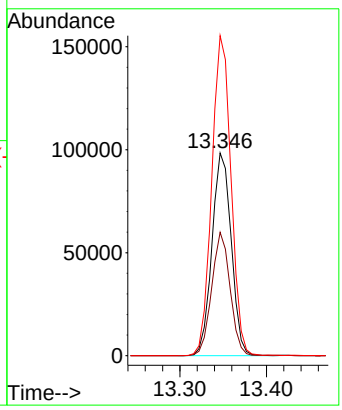


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021695.D
Acq: 28 Mar 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:152 Resp: 152172

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.8	86.5
150	157.4	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021695.D
Acq On : 28 Mar 2025 16:25
Operator : SY/MD
Sample : Q1664-01
Misc : 4.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021695.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	487	rBV2	28657	86801	6.33%	1.225%
2	5.641	634	643	658	rVB4	6822	23032	1.68%	0.325%
3	6.896	842	849	858	rBV2	6939	25278	1.84%	0.357%
4	7.634	959	970	976	rBV2	198745	480180	35.04%	6.776%
5	7.707	976	982	997	rVB	285490	654214	47.74%	9.232%
6	8.061	1029	1040	1056	rBV	171988	384264	28.04%	5.423%
7	8.616	1122	1131	1144	rBV	506826	982606	71.71%	13.867%
8	10.109	1367	1376	1386	rBV	817047	1370303	100.00%	19.338%
9	10.512	1434	1442	1449	rBV2	21537	40718	2.97%	0.575%
10	10.877	1496	1502	1512	rBV2	13788	31751	2.32%	0.448%
11	11.414	1583	1590	1604	rBV	718897	1204633	87.91%	17.000%
12	12.408	1745	1753	1764	rBV	543822	851473	62.14%	12.016%
13	13.346	1899	1907	1915	rBV	625109	950825	69.39%	13.418%

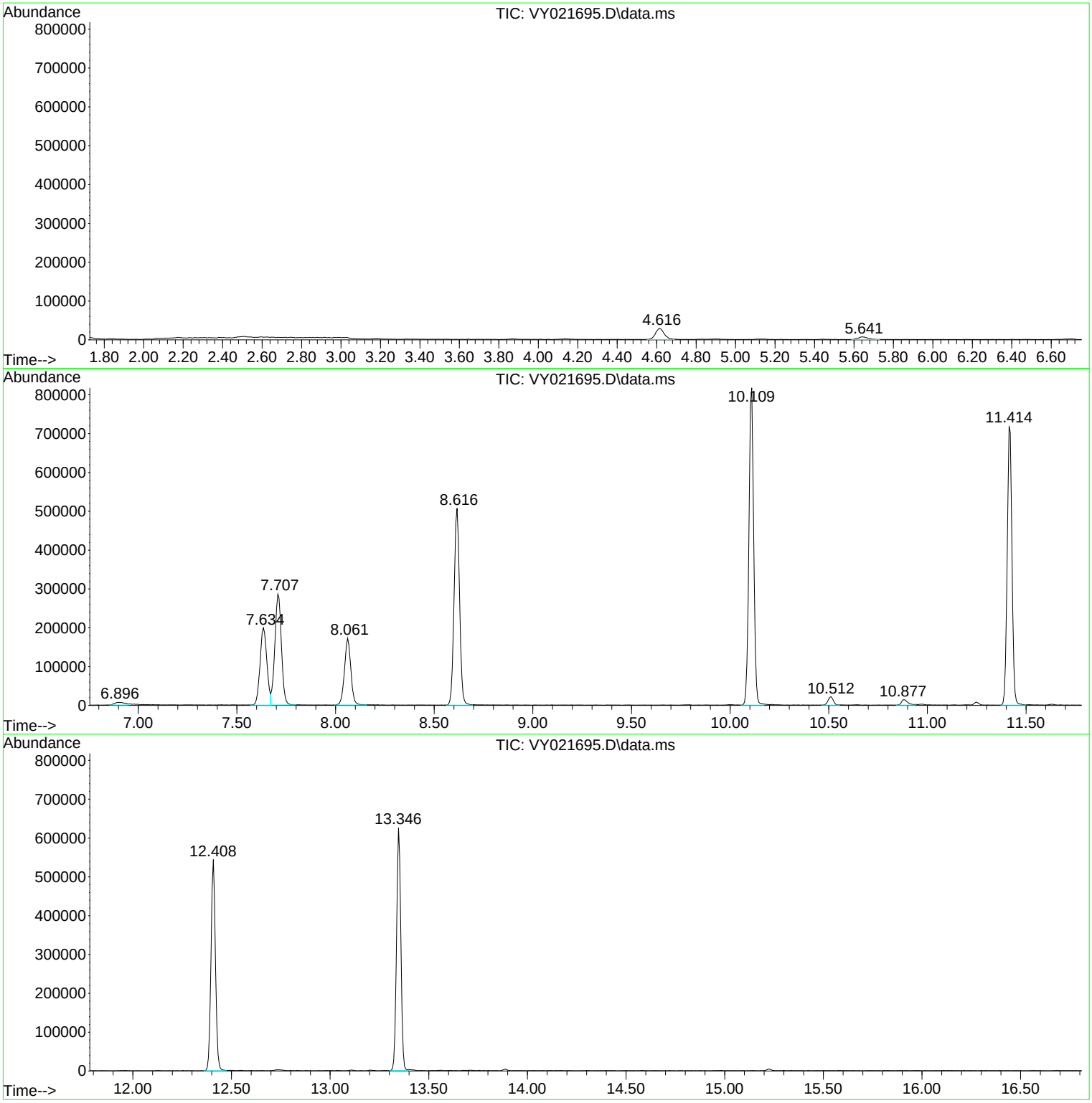
Sum of corrected areas: 7086078

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021695.D
Acq On : 28 Mar 2025 16:25
Operator : SY/MD
Sample : Q1664-01
Misc : 4.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021695.D
Acq On : 28 Mar 2025 16:25
Operator : SY/MD
Sample : Q1664-01
Misc : 4.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021695.D
Acq On : 28 Mar 2025 16:25
Operator : SY/MD
Sample : Q1664-01
Misc : 4.82g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92
Sample Wt/Vol:	3.44 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021698.D	1		03/28/25 17:35	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	7.90	ug/Kg
74-87-3	Chloromethane	1.80	U	1.80	7.90	ug/Kg
75-01-4	Vinyl Chloride	1.20	U	1.20	7.90	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	7.90	ug/Kg
75-00-3	Chloroethane	2.00	U	2.00	7.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.90	U	1.90	7.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1.70	7.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.60	U	1.60	7.90	ug/Kg
67-64-1	Acetone	7.50	U	7.50	39.5	ug/Kg
75-15-0	Carbon Disulfide	1.70	U	1.70	7.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	7.90	ug/Kg
79-20-9	Methyl Acetate	2.40	U	2.40	7.90	ug/Kg
75-09-2	Methylene Chloride	9.60	J	5.60	15.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	7.90	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	U	1.30	7.90	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	7.90	ug/Kg
78-93-3	2-Butanone	10.3	U	10.3	39.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	1.50	7.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	7.90	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	7.90	ug/Kg
67-66-3	Chloroform	1.30	U	1.30	7.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	7.90	ug/Kg
108-87-2	Methylcyclohexane	1.40	U	1.40	7.90	ug/Kg
71-43-2	Benzene	1.20	U	1.20	7.90	ug/Kg
107-06-2	1,2-Dichloroethane	1.20	U	1.20	7.90	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	7.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.40	U	1.40	7.90	ug/Kg
75-27-4	Bromodichloromethane	1.20	U	1.20	7.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.70	U	5.70	39.5	ug/Kg
108-88-3	Toluene	1.20	U	1.20	7.90	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92
Sample Wt/Vol:	3.44 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021698.D	1		03/28/25 17:35	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.00	U	1.00	7.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.98	U	0.98	7.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	1.50	7.90	ug/Kg
591-78-6	2-Hexanone	5.80	U	5.80	39.5	ug/Kg
124-48-1	Dibromochloromethane	1.40	U	1.40	7.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.40	U	1.40	7.90	ug/Kg
127-18-4	Tetrachloroethene	1.70	U	1.70	7.90	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	7.90	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	7.90	ug/Kg
179601-23-1	m/p-Xylenes	2.00	U	2.00	15.8	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	7.90	ug/Kg
100-42-5	Styrene	1.10	U	1.10	7.90	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	7.90	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	7.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1.90	7.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.70	U	2.70	7.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	2.50	7.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	2.30	7.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.90	U	2.90	7.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.70	U	4.70	7.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	5.00	7.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		63 - 155	115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	50.2		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		38 - 136	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.713			
540-36-3	1,4-Difluorobenzene	414000	8.615			
3114-55-4	Chlorobenzene-d5	382000	11.413			
3855-82-1	1,4-Dichlorobenzene-d4	153000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92
Sample Wt/Vol:	3.44 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021698.D	1		03/28/25 17:35	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021698.D
Acq On : 28 Mar 2025 17:35
Operator : SY/MD
Sample : Q1664-07
Misc : 3.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Quant Time: Mar 28 23:46:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

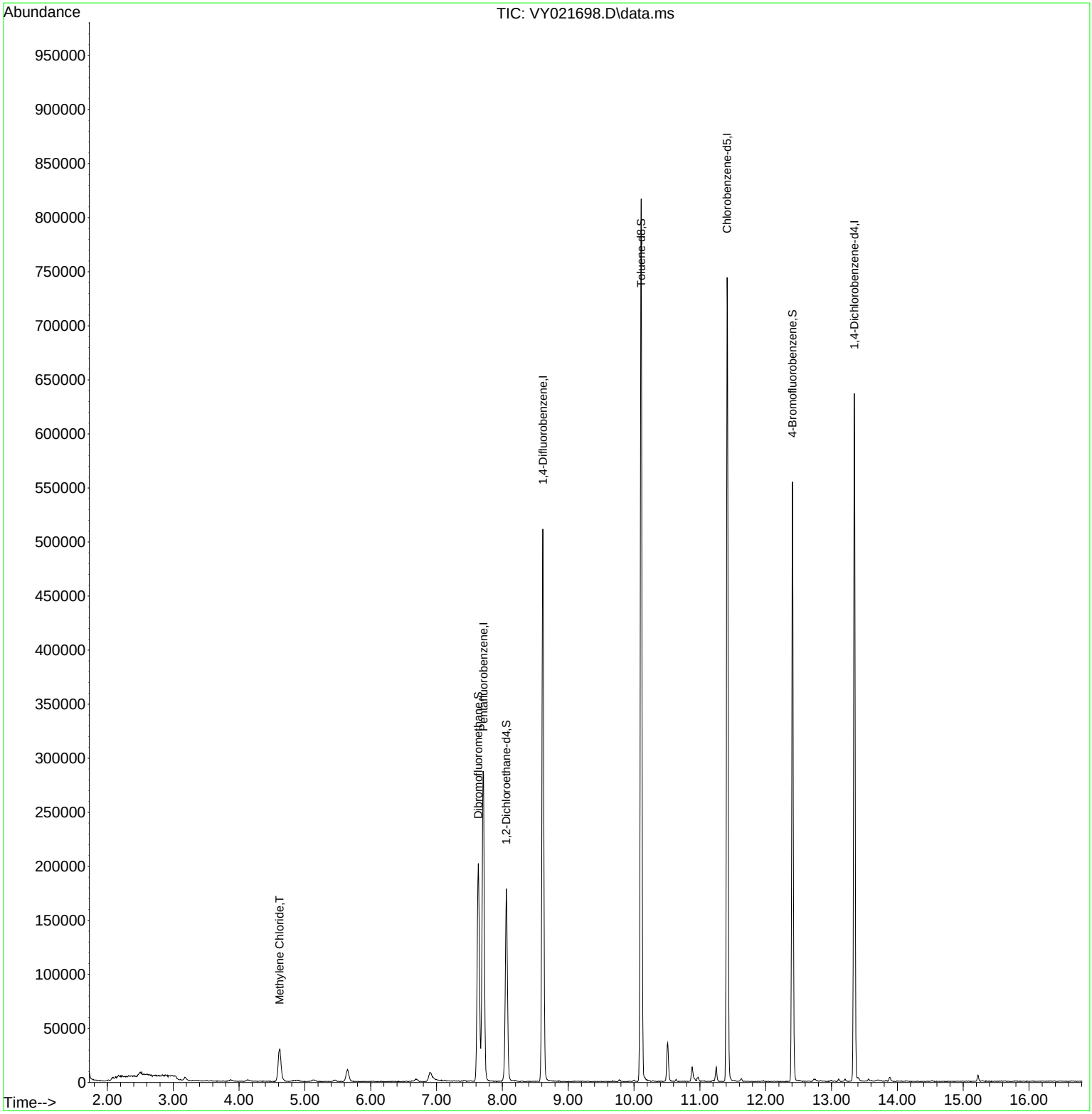
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	217380	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	413595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	382406	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	153193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	135307	57.449	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.900%			
35) Dibromofluoromethane	7.634	113	140499	52.368	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.740%			
50) Toluene-d8	10.109	98	512193	50.182	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.360%			
62) 4-Bromofluorobenzene	12.407	95	157595	45.648	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.300%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	22280	6.046	ug/l	91

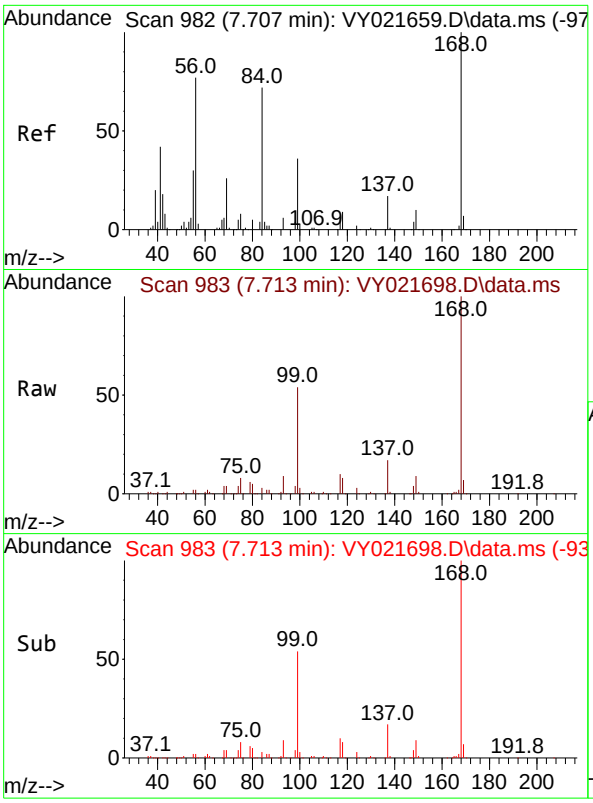
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021698.D
Acq On : 28 Mar 2025 17:35
Operator : SY/MD
Sample : Q1664-07
Misc : 3.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Quant Time: Mar 28 23:46:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



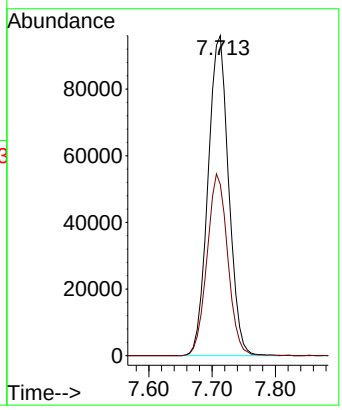


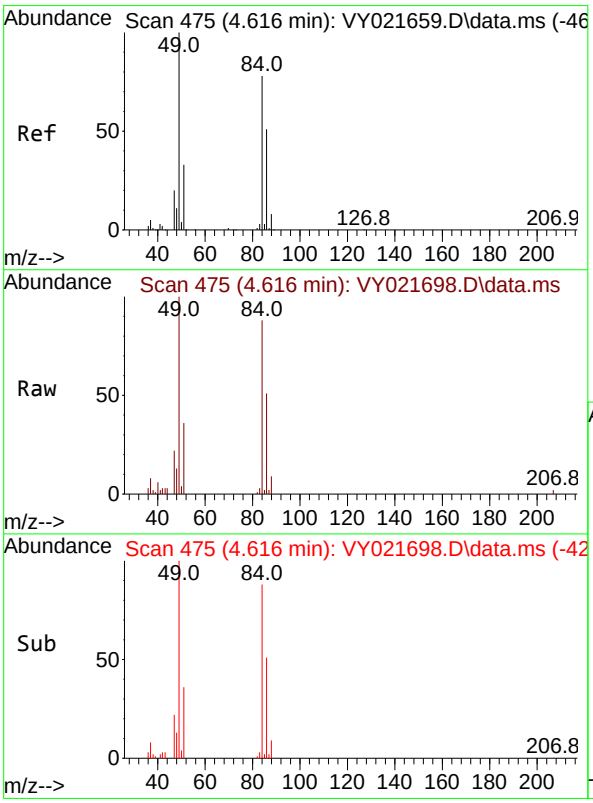
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:168 Resp: 217380

Ion	Ratio	Lower	Upper
168	100		
99	53.5	46.7	70.1

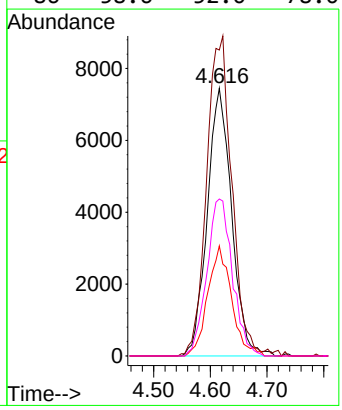


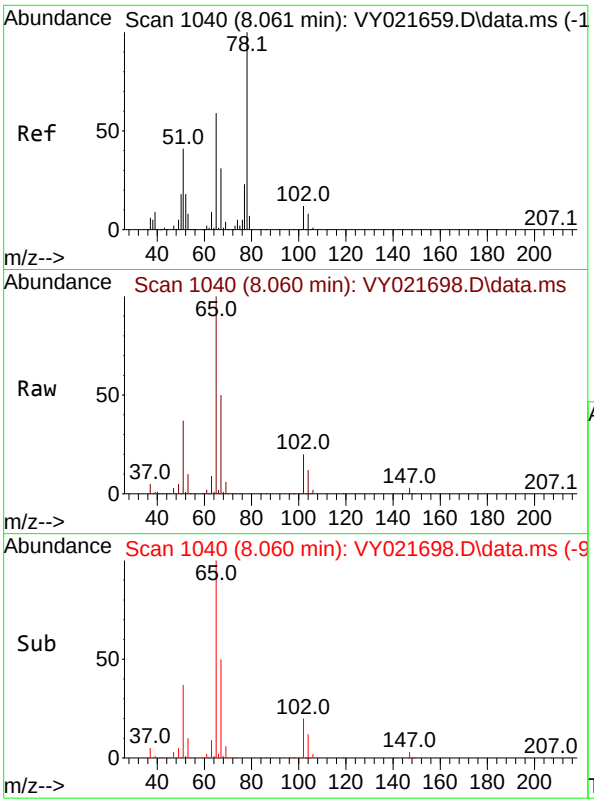


#20
Methylene Chloride
Concen: 6.046 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Tgt Ion: 84 Resp: 22280

Ion	Ratio	Lower	Upper
84	100		
49	114.3	102.8	154.2
51	41.1	33.5	50.3
86	58.6	52.0	78.0



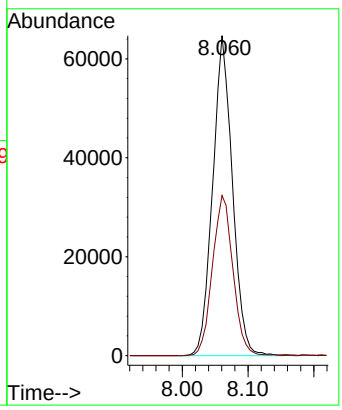


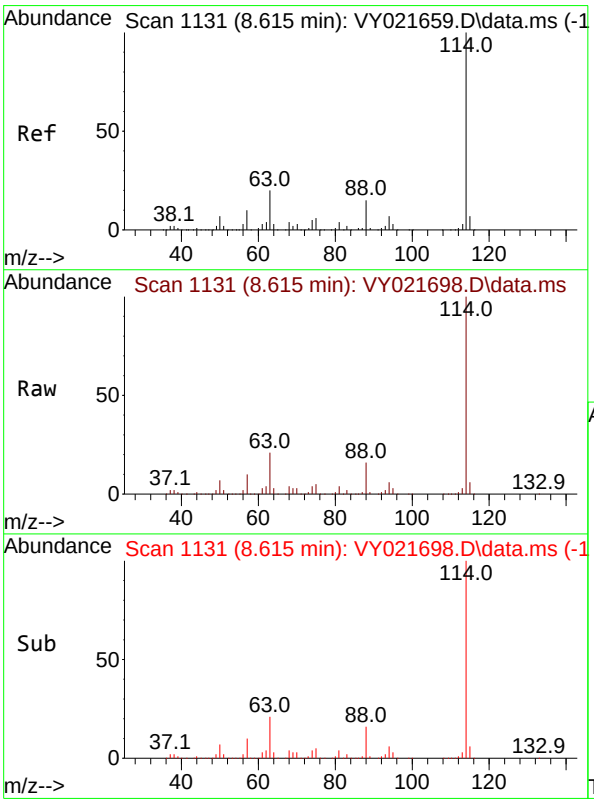
#33
1,2-Dichloroethane-d4
Concen: 57.449 ug/l
RT: 8.060 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion: 65 Resp: 135307

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.6

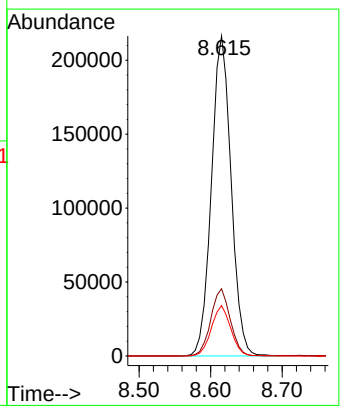


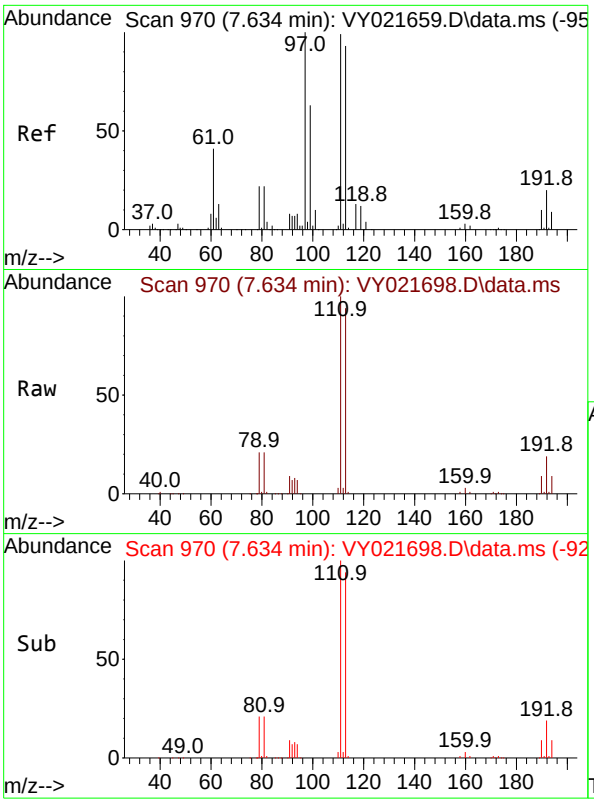


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Tgt Ion:114 Resp: 413595

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.2
88	15.7	0.0	29.8



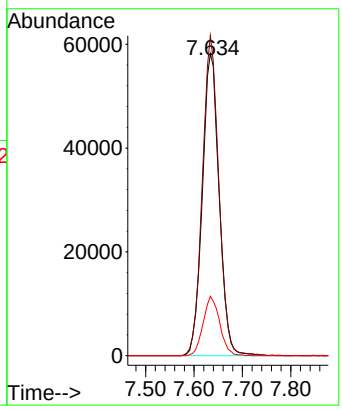


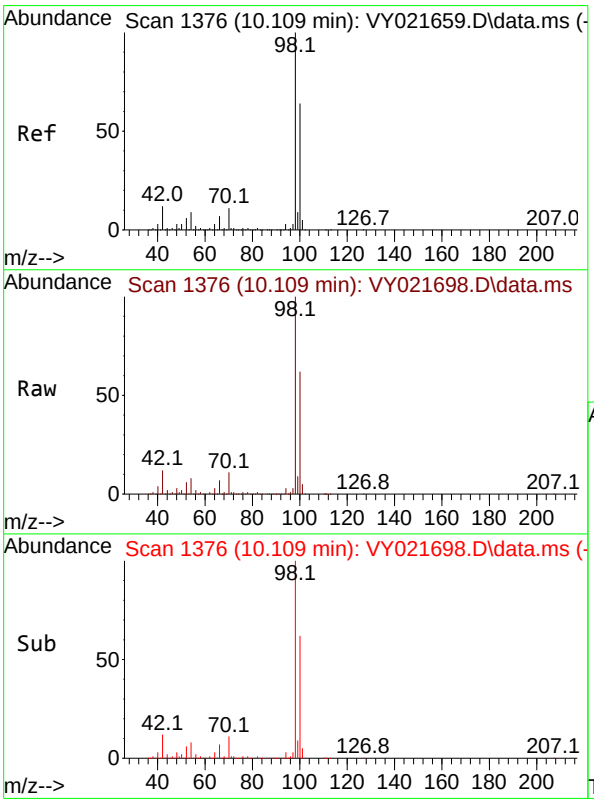
#35
Dibromofluoromethane
Concen: 52.368 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:113 Resp: 140499

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	123.8
192	19.4	16.2	24.4

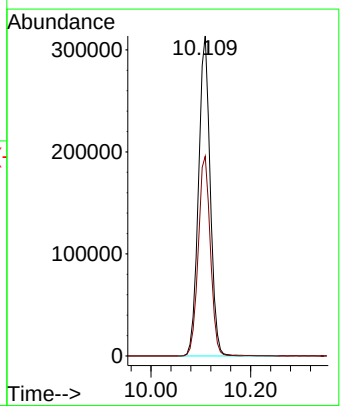


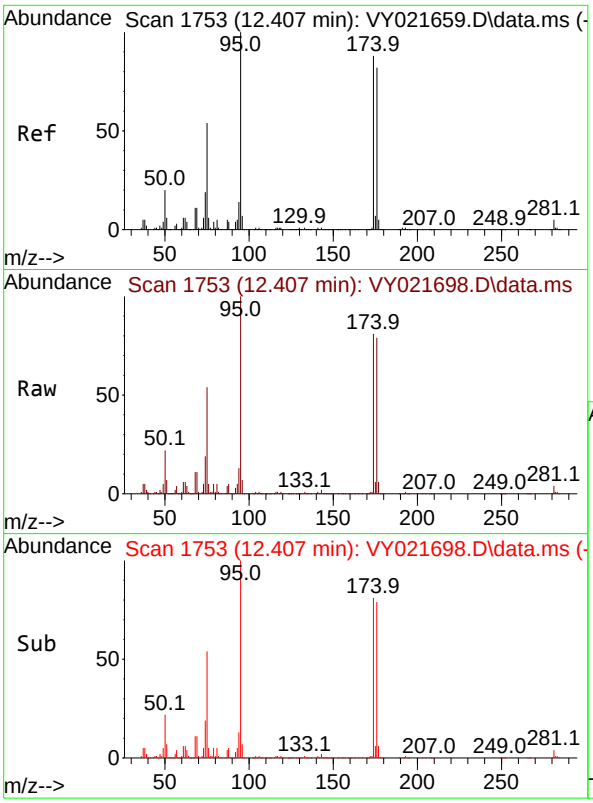


#50
Toluene-d8
Concen: 50.182 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Tgt Ion: 98 Resp: 512193

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.1	78.1



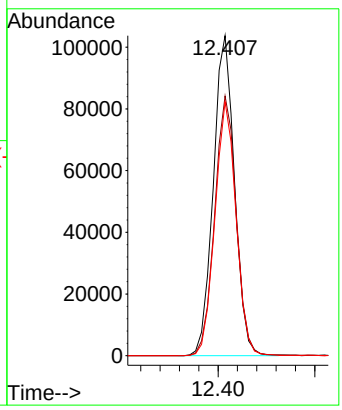


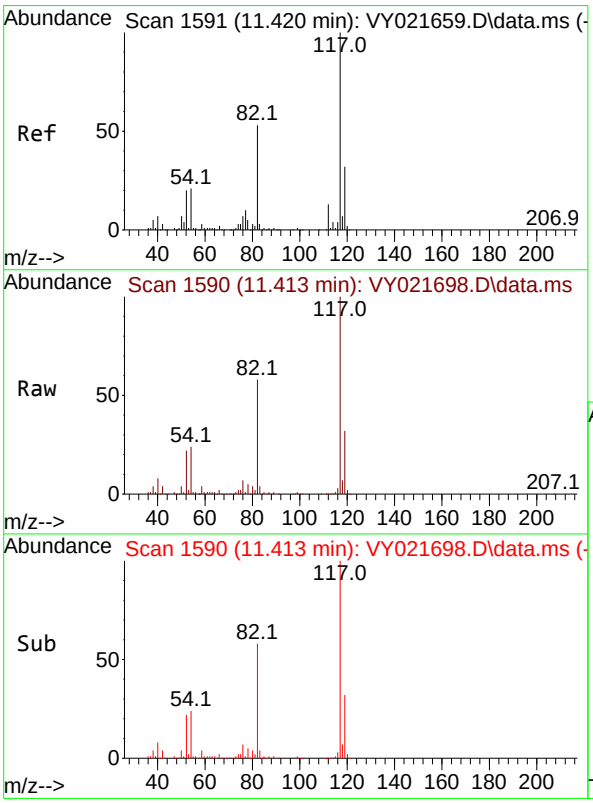
#62
4-Bromofluorobenzene
Concen: 45.648 ug/l
RT: 12.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion: 95 Resp: 157595

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.8
176	79.0	0.0	162.0

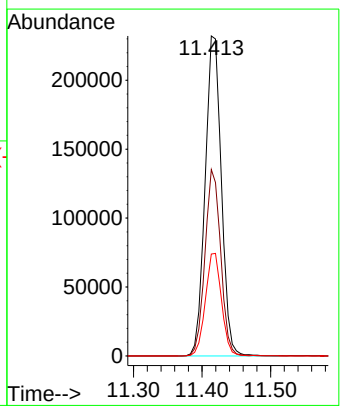


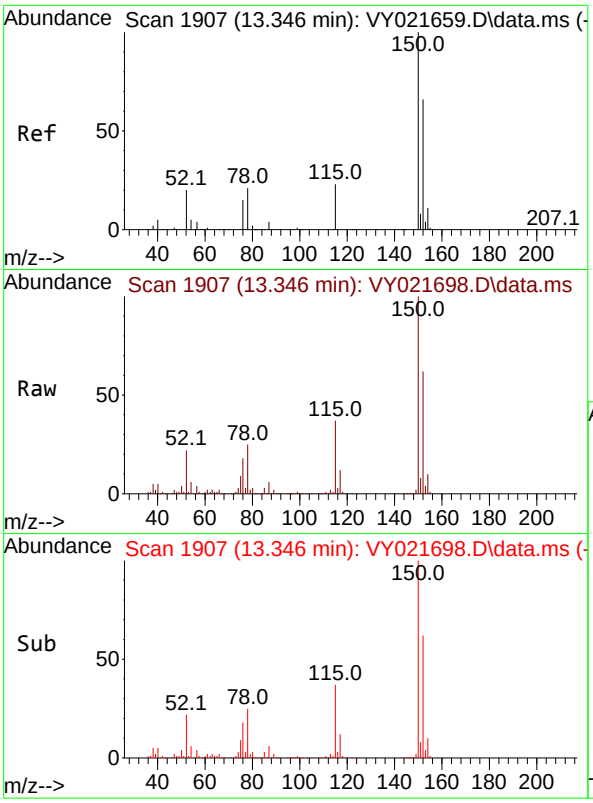


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Tgt Ion:117 Resp: 382406

Ion	Ratio	Lower	Upper
117	100		
82	58.2	42.8	64.2
119	31.9	25.7	38.5



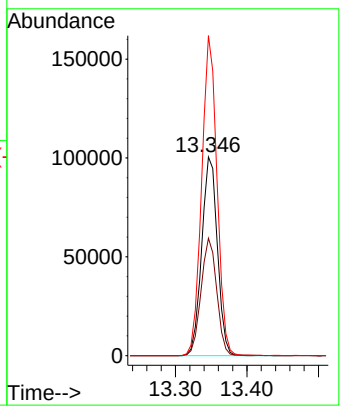


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021698.D
Acq: 28 Mar 2025 17:35

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:152 Resp: 153193

Ion	Ratio	Lower	Upper
152	100		
115	59.0	28.8	86.5
150	157.2	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021698.D
Acq On : 28 Mar 2025 17:35
Operator : SY/MD
Sample : Q1664-07
Misc : 3.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021698.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.616	463	475	488	rBV3	30139	97627	7.10%	1.351%
2	5.646	633	644	654	rBV5	11354	35292	2.57%	0.488%
3	6.896	840	849	858	rBV	8314	30675	2.23%	0.424%
4	7.634	960	970	976	rBV	201646	478421	34.78%	6.620%
5	7.707	976	982	995	rVB	286460	664519	48.31%	9.195%
6	8.060	1029	1040	1051	rBV	178168	400992	29.15%	5.549%
7	8.615	1121	1131	1146	rBV	511111	991006	72.05%	13.713%
8	10.109	1367	1376	1385	rBV	816623	1375432	100.00%	19.032%
9	10.511	1434	1442	1450	rVB	35433	66754	4.85%	0.924%
10	10.883	1497	1503	1512	rBV2	12885	26272	1.91%	0.364%
11	11.249	1557	1563	1570	rVB2	13200	21333	1.55%	0.295%
12	11.413	1580	1590	1602	rBV	743887	1211618	88.09%	16.766%
13	12.407	1745	1753	1762	rBV	554683	867449	63.07%	12.003%
14	13.346	1899	1907	1914	rBV	636153	959365	69.75%	13.275%

Sum of corrected areas: 7226755

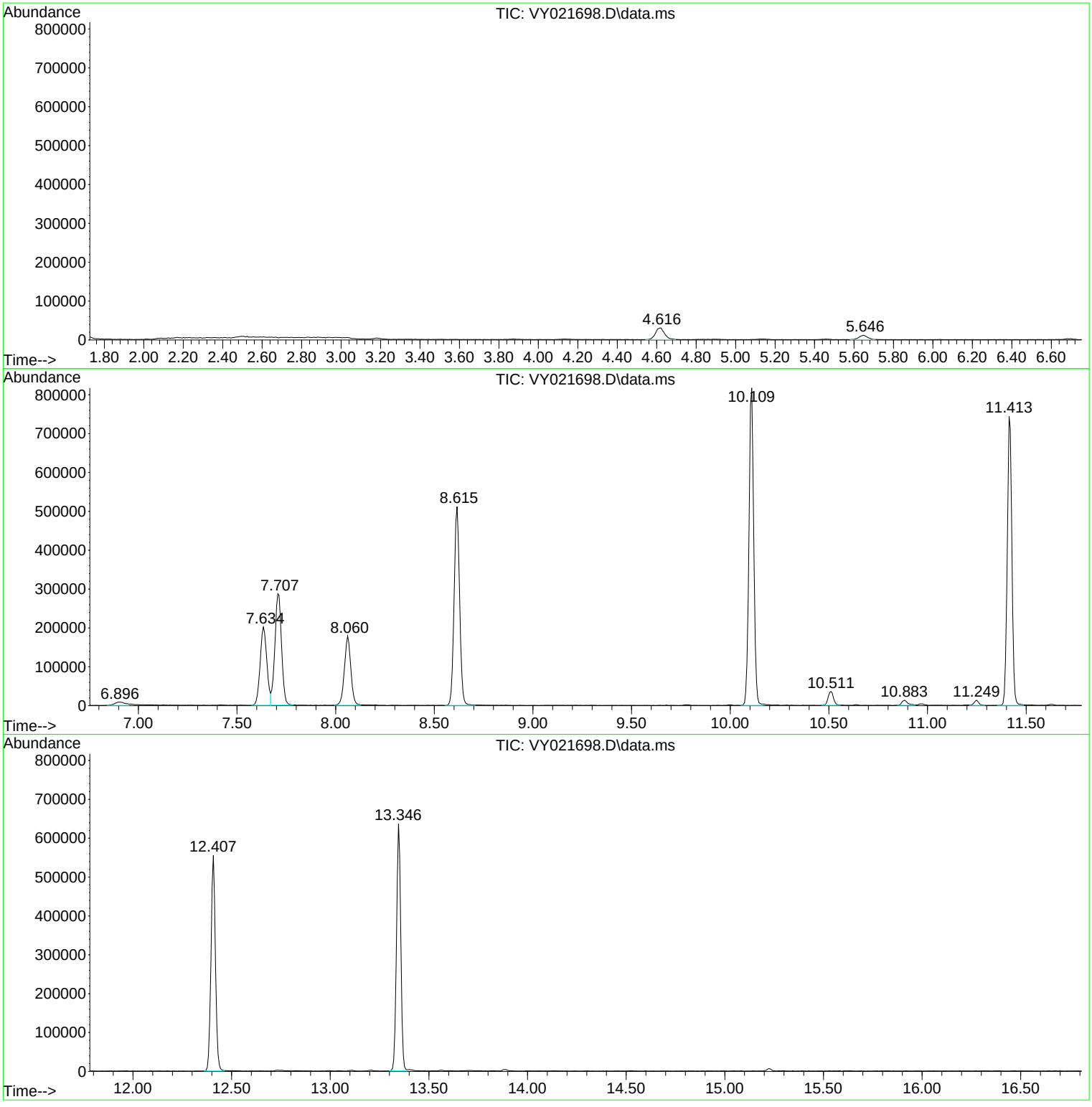
Sample Results: **VY021698.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021698.D
Acq On : 28 Mar 2025 17:35
Operator : SY/MD
Sample : Q1664-07
Misc : 3.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021698.D
Acq On : 28 Mar 2025 17:35
Operator : SY/MD
Sample : Q1664-07
Misc : 3.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021698.D
Acq On : 28 Mar 2025 17:35
Operator : SY/MD
Sample : Q1664-07
Misc : 3.44g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.5
Sample Wt/Vol:	4.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021699.D	1		03/28/25 17:58	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	6.70	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.70	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	6.70	ug/Kg
74-83-9	Bromomethane	1.40	U	1.40	6.70	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	6.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.60	U	1.60	6.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.70	ug/Kg
75-35-4	1,1-Dichloroethene	1.30	U	1.30	6.70	ug/Kg
67-64-1	Acetone	6.30	U	6.30	33.3	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	6.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.97	U	0.97	6.70	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	6.70	ug/Kg
75-09-2	Methylene Chloride	8.40	J	4.70	13.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.70	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	6.70	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	6.70	ug/Kg
78-93-3	2-Butanone	8.70	U	8.70	33.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	6.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	6.70	ug/Kg
74-97-5	Bromochloromethane	1.50	U	1.50	6.70	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	6.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.70	ug/Kg
108-87-2	Methylcyclohexane	1.20	U	1.20	6.70	ug/Kg
71-43-2	Benzene	1.10	U	1.10	6.70	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	6.70	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	6.70	ug/Kg
78-87-5	1,2-Dichloropropane	1.20	U	1.20	6.70	ug/Kg
75-27-4	Bromodichloromethane	1.00	U	1.00	6.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.80	U	4.80	33.3	ug/Kg
108-88-3	Toluene	1.00	U	1.00	6.70	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.5
Sample Wt/Vol:	4.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021699.D	1		03/28/25 17:58	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.87	U	0.87	6.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	6.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.20	U	1.20	6.70	ug/Kg
591-78-6	2-Hexanone	4.90	U	4.90	33.3	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	6.70	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	6.70	ug/Kg
127-18-4	Tetrachloroethene	1.40	U	1.40	6.70	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	6.70	ug/Kg
100-41-4	Ethyl Benzene	0.89	U	0.89	6.70	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	13.3	ug/Kg
95-47-6	o-Xylene	1.10	U	1.10	6.70	ug/Kg
100-42-5	Styrene	0.95	U	0.95	6.70	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.70	ug/Kg
98-82-8	Isopropylbenzene	1.00	U	1.00	6.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.60	U	1.60	6.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	2.30	6.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	6.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.90	U	1.90	6.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.50	U	2.50	6.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.00	U	4.00	6.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.20	U	4.20	6.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.2		63 - 155	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.0		38 - 136	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	215000	7.707			
540-36-3	1,4-Difluorobenzene	416000	8.616			
3114-55-4	Chlorobenzene-d5	386000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.5
Sample Wt/Vol:	4.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021699.D	1		03/28/25 17:58	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021699.D
Acq On : 28 Mar 2025 17:58
Operator : SY/MD
Sample : Q1664-09
Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Quant Time: Mar 28 23:47:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

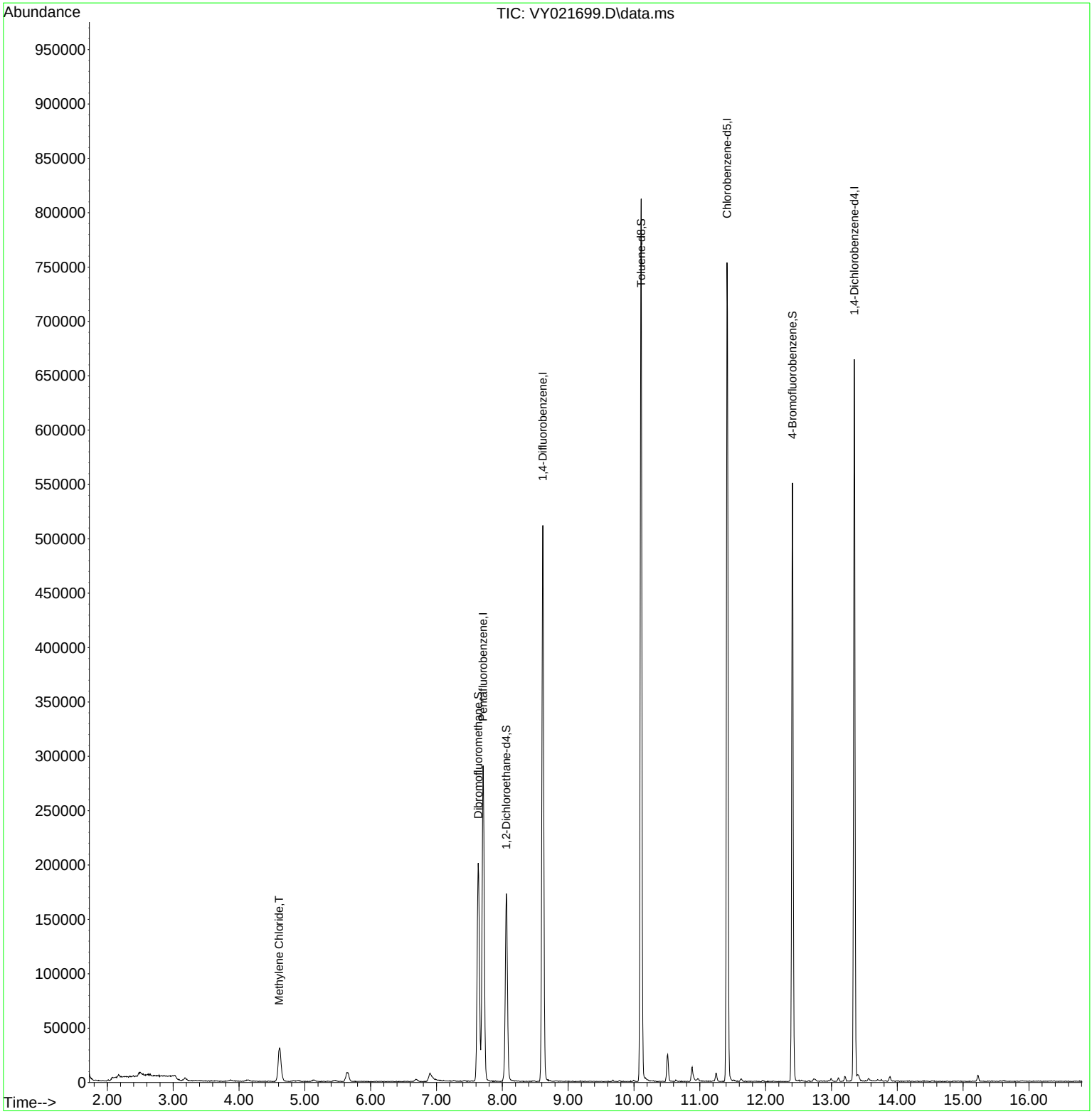
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	215190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	416015	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	385659	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	154270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	135653	58.182	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.360%			
35) Dibromofluoromethane	7.634	113	141495	52.432	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.860%			
50) Toluene-d8	10.109	98	511479	49.821	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.640%			
62) 4-Bromofluorobenzene	12.408	95	159654	45.976	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.960%			
Target Compounds						Qvalue
20) Methylene Chloride	4.610	84	22639	6.317	ug/l	93

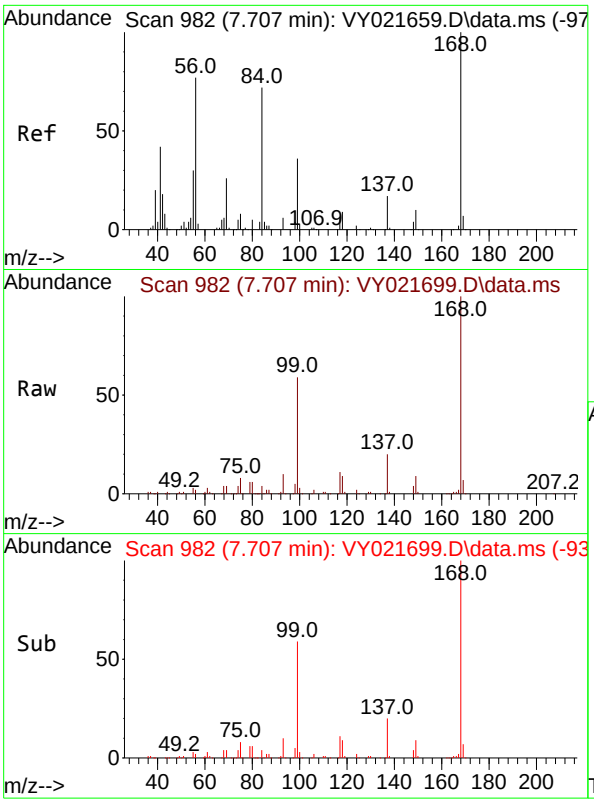
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021699.D
Acq On : 28 Mar 2025 17:58
Operator : SY/MD
Sample : Q1664-09
Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Quant Time: Mar 28 23:47:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



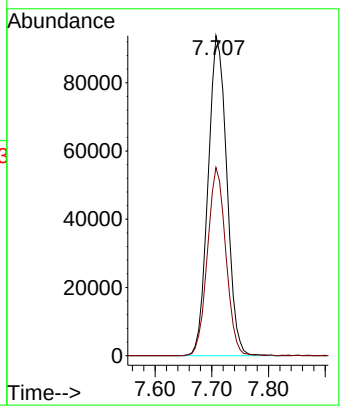


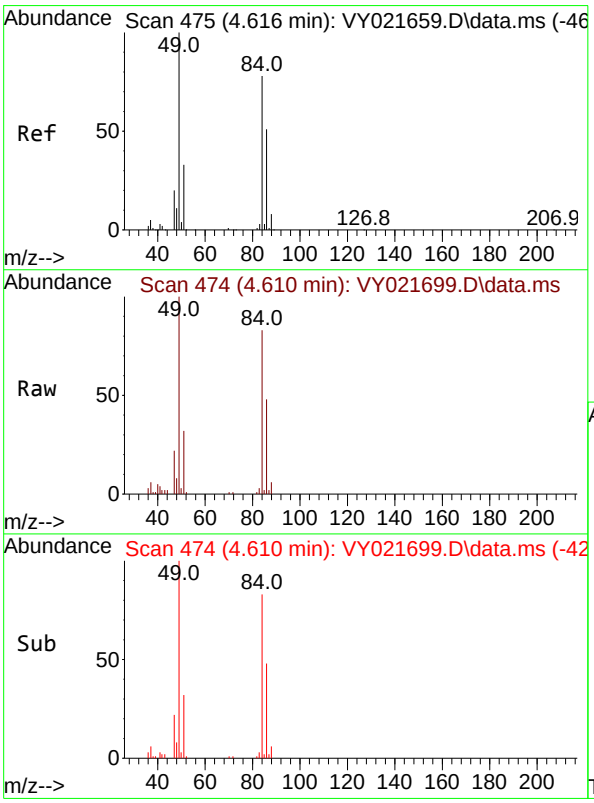
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:168 Resp: 215190

Ion	Ratio	Lower	Upper
168	100		
99	58.8	46.7	70.1

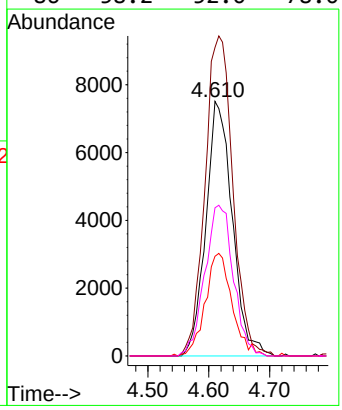


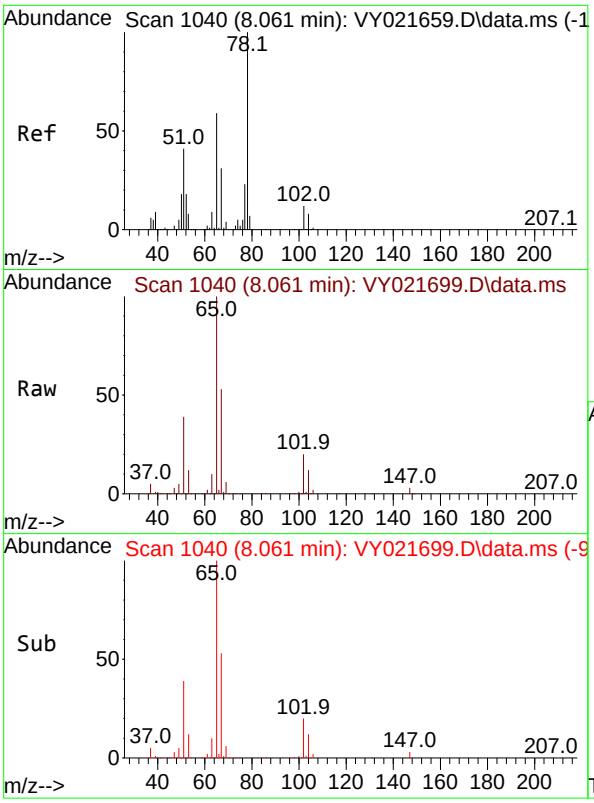


#20
Methylene Chloride
Concen: 6.317 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Tgt Ion: 84 Resp: 22639

Ion	Ratio	Lower	Upper
84	100		
49	121.2	102.8	154.2
51	39.2	33.5	50.3
86	58.2	52.0	78.0



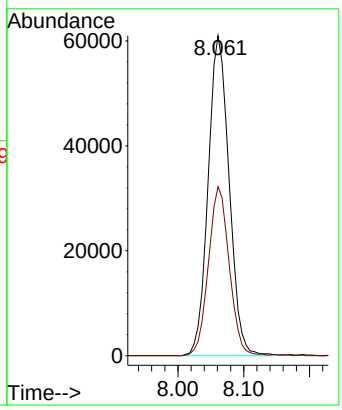


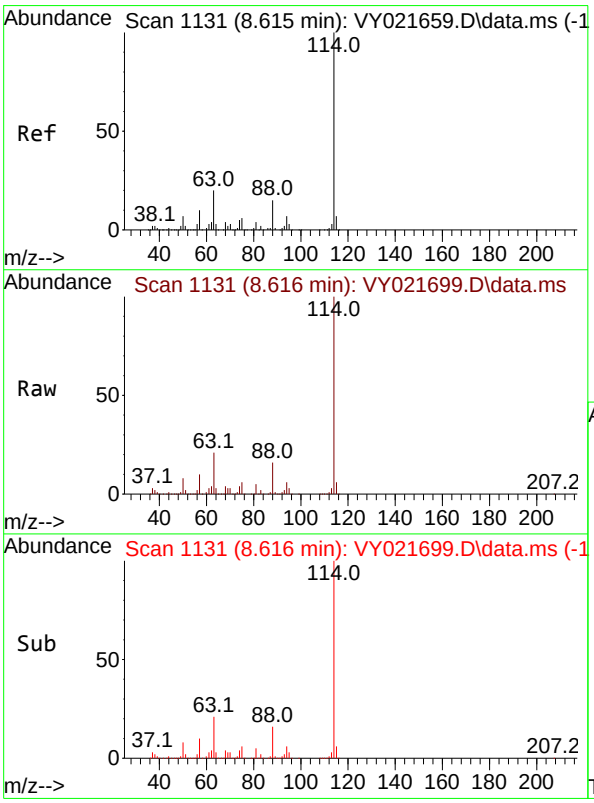
#33
1,2-Dichloroethane-d4
Concen: 58.182 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion: 65 Resp: 135653

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6

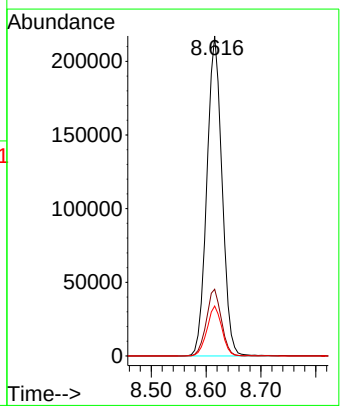


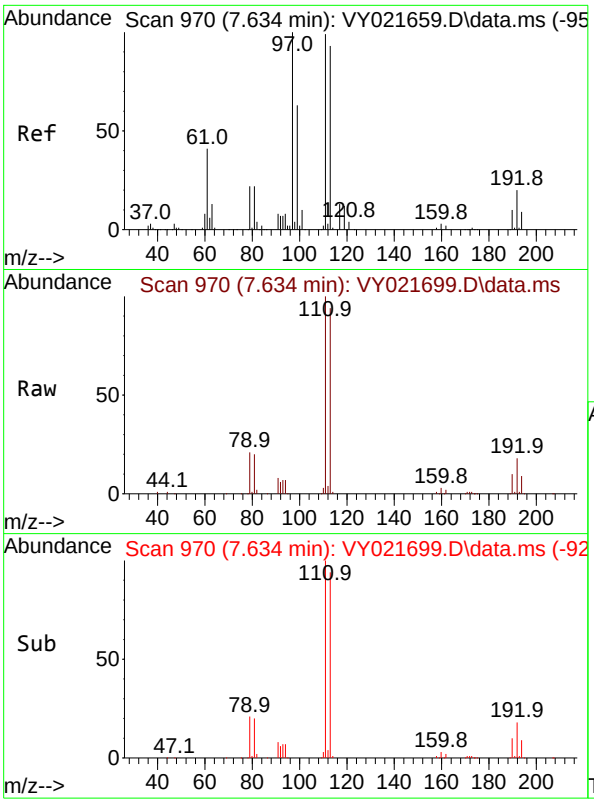


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Tgt Ion:114 Resp: 416015

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.2
88	15.6	0.0	29.8



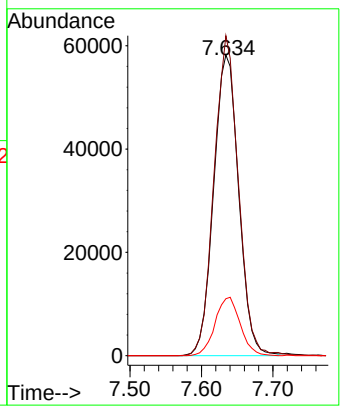


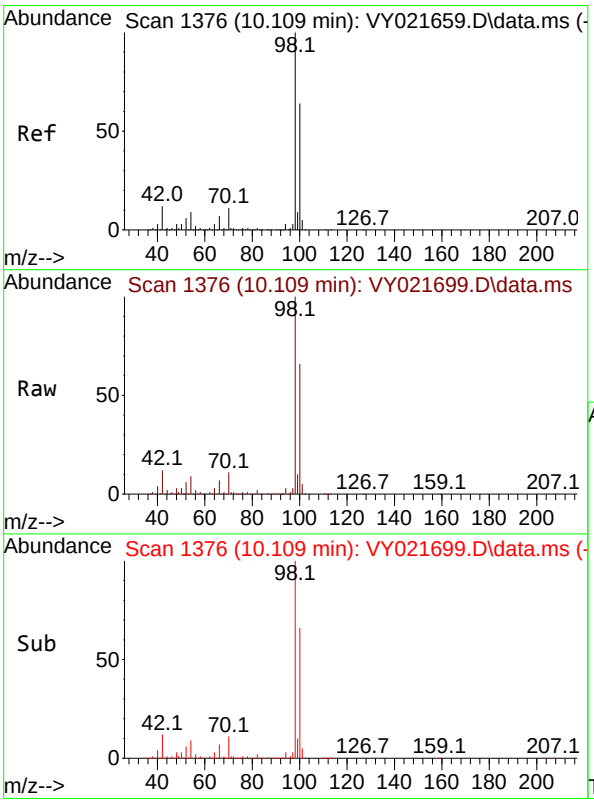
#35
Dibromofluoromethane
Concen: 52.432 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:113 Resp: 141495

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	19.5	16.2	24.4

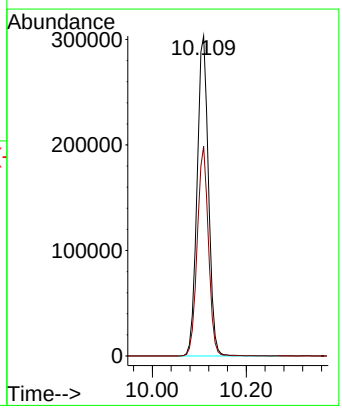


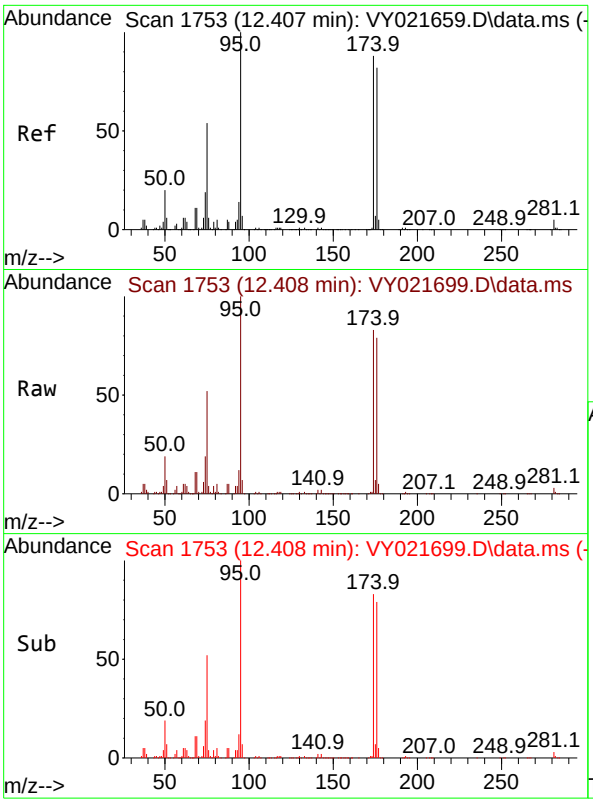


#50
Toluene-d8
Concen: 49.821 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Tgt Ion: 98 Resp: 511479

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.1	78.1



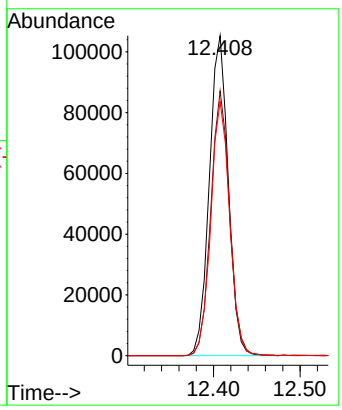


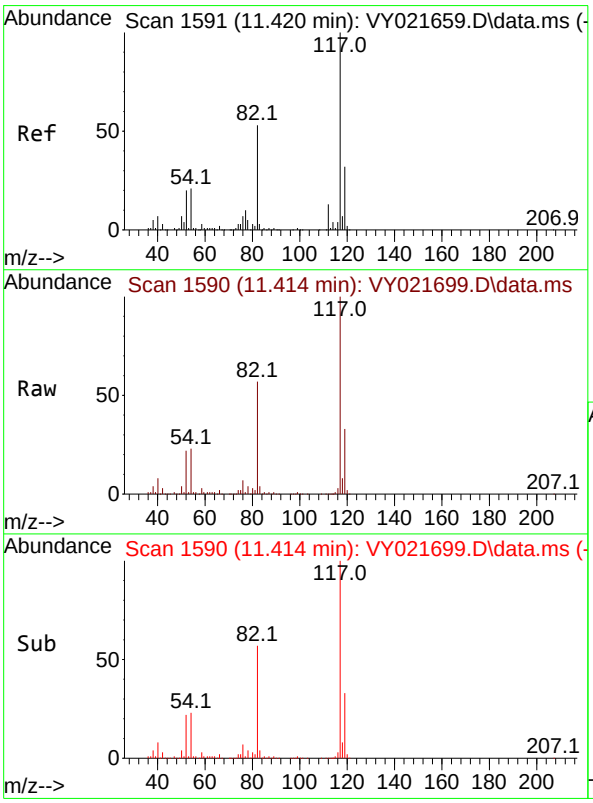
#62
4-Bromofluorobenzene
Concen: 45.976 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion: 95 Resp: 159654

Ion	Ratio	Lower	Upper
95	100		
174	82.6	0.0	170.8
176	79.2	0.0	162.0

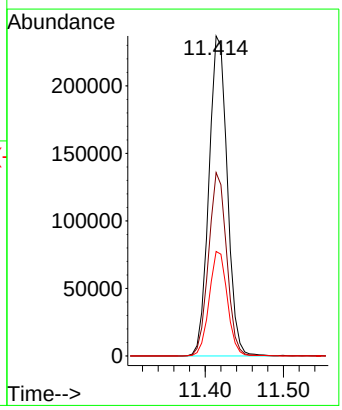


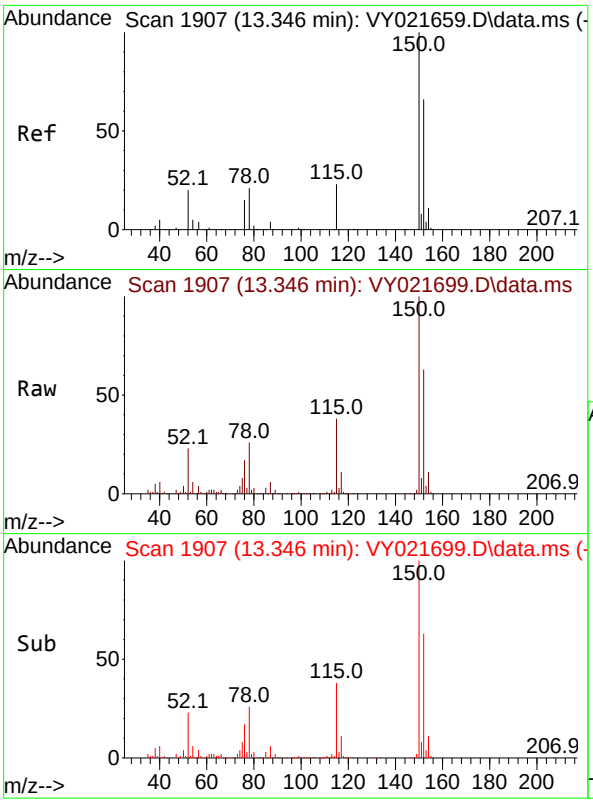


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Tgt Ion:117 Resp: 385659

Ion	Ratio	Lower	Upper
117	100		
82	57.3	42.8	64.2
119	32.7	25.7	38.5



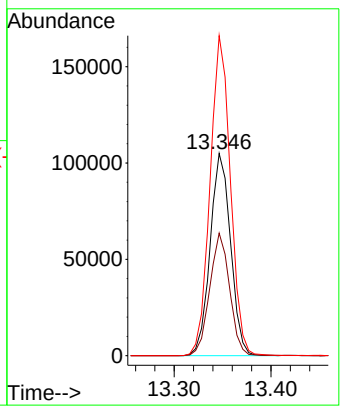


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021699.D
Acq: 28 Mar 2025 17:58

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:152 Resp: 154270

Ion	Ratio	Lower	Upper
152	100		
115	59.0	28.8	86.5
150	157.2	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021699.D
Acq On : 28 Mar 2025 17:58
Operator : SY/MD
Sample : Q1664-09
Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021699.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	462	475	487	rBV	31031	102562	7.45%	1.421%
2	5.641	634	643	657	rBV4	8357	28594	2.08%	0.396%
3	6.903	842	850	862	rBV	7563	28432	2.07%	0.394%
4	7.634	957	970	976	rBV2	200766	481374	34.97%	6.669%
5	7.707	976	982	994	rVB	289477	660355	47.97%	9.148%
6	8.061	1030	1040	1055	rBV	172812	403538	29.31%	5.590%
7	8.616	1122	1131	1144	rBV	511563	990937	71.98%	13.728%
8	10.109	1365	1376	1386	rBV	811871	1376658	100.00%	19.071%
9	10.512	1435	1442	1450	rBV	25008	47277	3.43%	0.655%
10	10.884	1495	1503	1512	rBV2	13322	28418	2.06%	0.394%
11	11.249	1558	1563	1572	rVB3	7718	14088	1.02%	0.195%
12	11.414	1583	1590	1603	rBV	753122	1219804	88.61%	16.898%
13	12.408	1741	1753	1762	rBV	550626	866922	62.97%	12.010%
14	13.346	1898	1907	1913	rBV	663736	969557	70.43%	13.432%

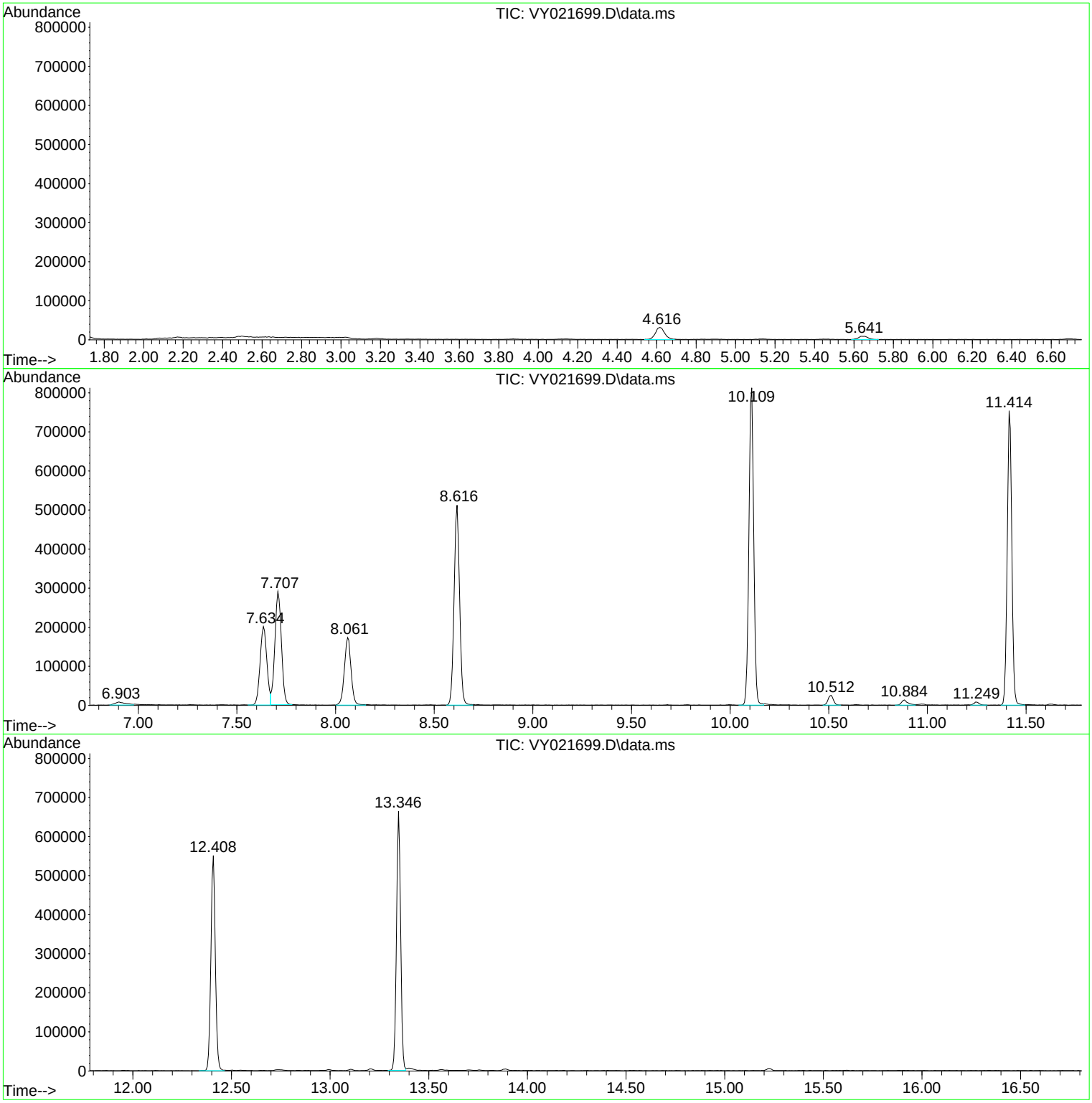
Sum of corrected areas: 7218516

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021699.D
Acq On : 28 Mar 2025 17:58
Operator : SY/MD
Sample : Q1664-09
Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021699.D
Acq On : 28 Mar 2025 17:58
Operator : SY/MD
Sample : Q1664-09
Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021699.D
Acq On : 28 Mar 2025 17:58
Operator : SY/MD
Sample : Q1664-09
Misc : 4.01g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-002-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.6
Sample Wt/Vol:	4.86 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021700.D	1		03/28/25 18:22	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.40	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.40	ug/Kg
75-01-4	Vinyl Chloride	0.86	U	0.86	5.40	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.40	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.40	ug/Kg
67-64-1	Acetone	5.20	U	5.20	27.2	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.79	U	0.79	5.40	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.40	ug/Kg
75-09-2	Methylene Chloride	11.0		3.80	10.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.94	U	0.94	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.87	U	0.87	5.40	ug/Kg
110-82-7	Cyclohexane	0.86	U	0.86	5.40	ug/Kg
78-93-3	2-Butanone	7.10	U	7.10	27.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.82	U	0.82	5.40	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.40	ug/Kg
67-66-3	Chloroform	0.91	U	0.91	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.40	ug/Kg
108-87-2	Methylcyclohexane	0.99	U	0.99	5.40	ug/Kg
71-43-2	Benzene	0.86	U	0.86	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.86	U	0.86	5.40	ug/Kg
79-01-6	Trichloroethene	0.88	U	0.88	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.99	U	0.99	5.40	ug/Kg
75-27-4	Bromodichloromethane	0.85	U	0.85	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.90	U	3.90	27.2	ug/Kg
108-88-3	Toluene	0.85	U	0.85	5.40	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.6
Sample Wt/Vol:	4.86 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021700.D	1		03/28/25 18:22	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.71	U	0.71	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.40	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	27.2	ug/Kg
124-48-1	Dibromochloromethane	0.95	U	0.95	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.96	U	0.96	5.40	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.40	ug/Kg
108-90-7	Chlorobenzene	0.99	U	0.99	5.40	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.40	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.9	ug/Kg
95-47-6	o-Xylene	0.89	U	0.89	5.40	ug/Kg
100-42-5	Styrene	0.77	U	0.77	5.40	ug/Kg
75-25-2	Bromoform	0.94	U	0.94	5.40	ug/Kg
98-82-8	Isopropylbenzene	0.85	U	0.85	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.50	U	3.50	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.0		63 - 155	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	49.7		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		38 - 136	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	7.707			
540-36-3	1,4-Difluorobenzene	407000	8.616			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-11	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.6
Sample Wt/Vol:	4.86 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021700.D	1		03/28/25 18:22	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021700.D
Acq On : 28 Mar 2025 18:22
Operator : SY/MD
Sample : Q1664-11
Misc : 4.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Quant Time: Mar 28 23:47:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

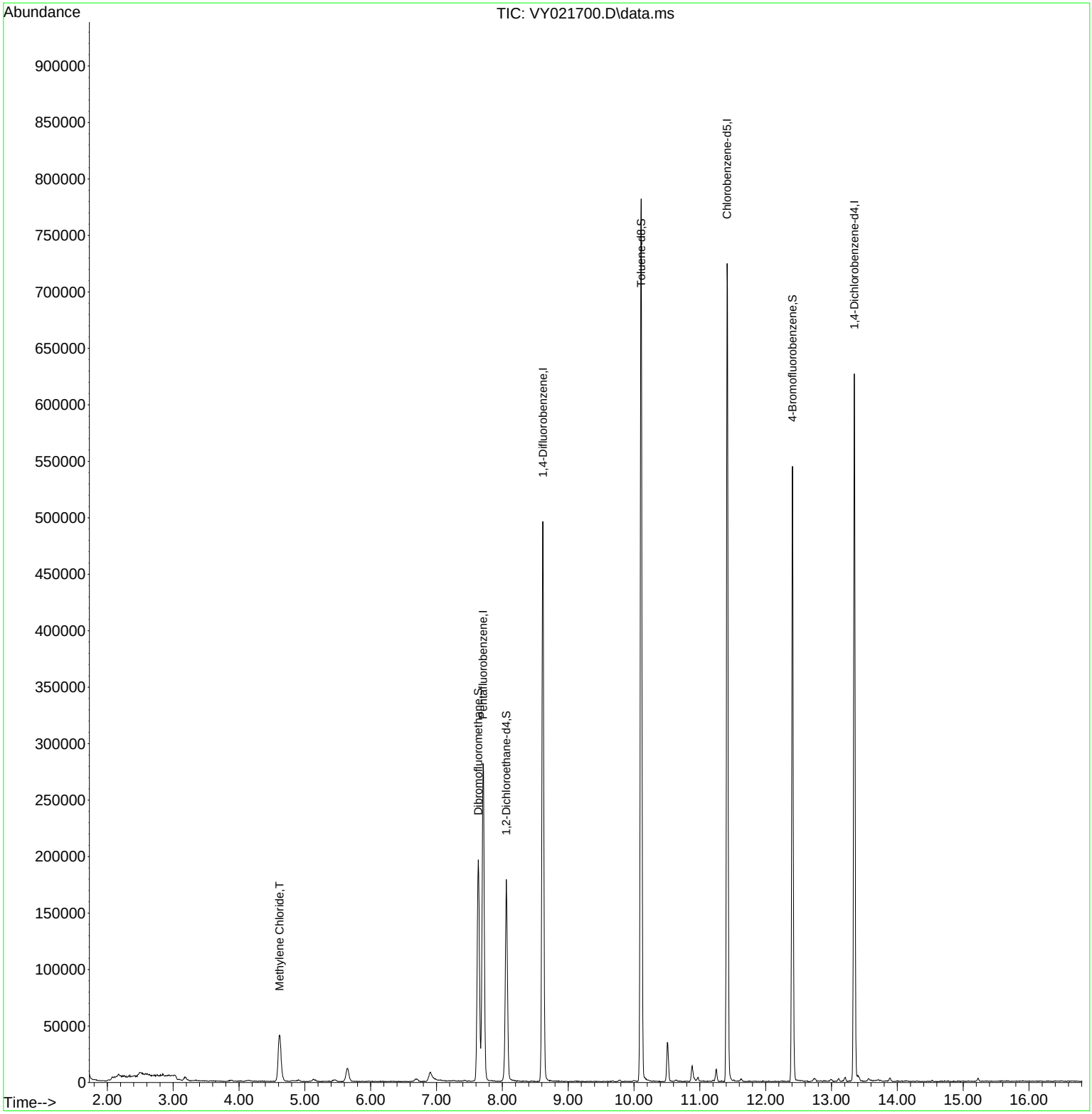
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	209464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	407285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	374541	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	150733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	133978	59.035	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.060%			
35) Dibromofluoromethane	7.634	113	138077	52.262	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.520%			
50) Toluene-d8	10.109	98	499769	49.724	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.440%			
62) 4-Bromofluorobenzene	12.408	95	154556	45.462	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.920%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	29985	10.107	ug/l	97

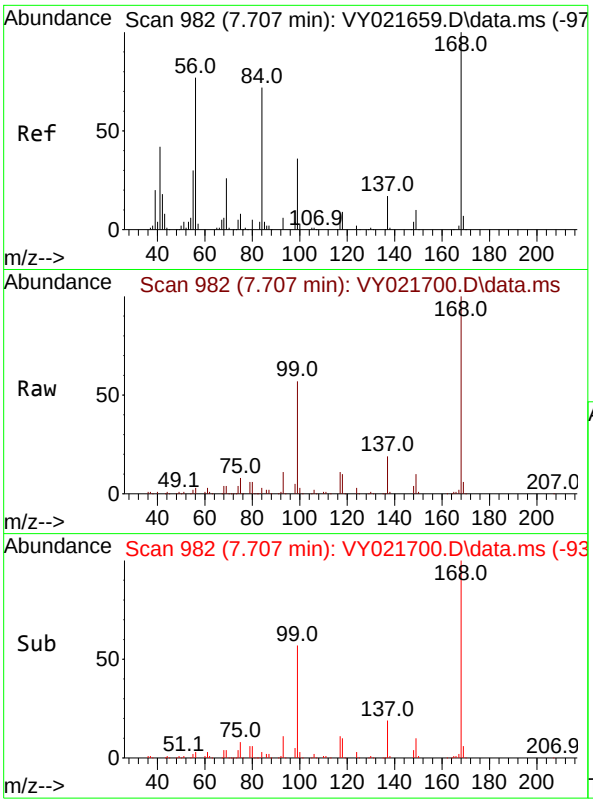
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021700.D
Acq On : 28 Mar 2025 18:22
Operator : SY/MD
Sample : Q1664-11
Misc : 4.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Quant Time: Mar 28 23:47:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



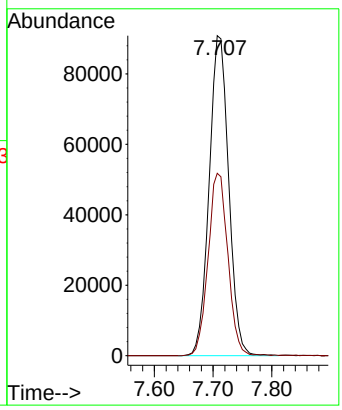


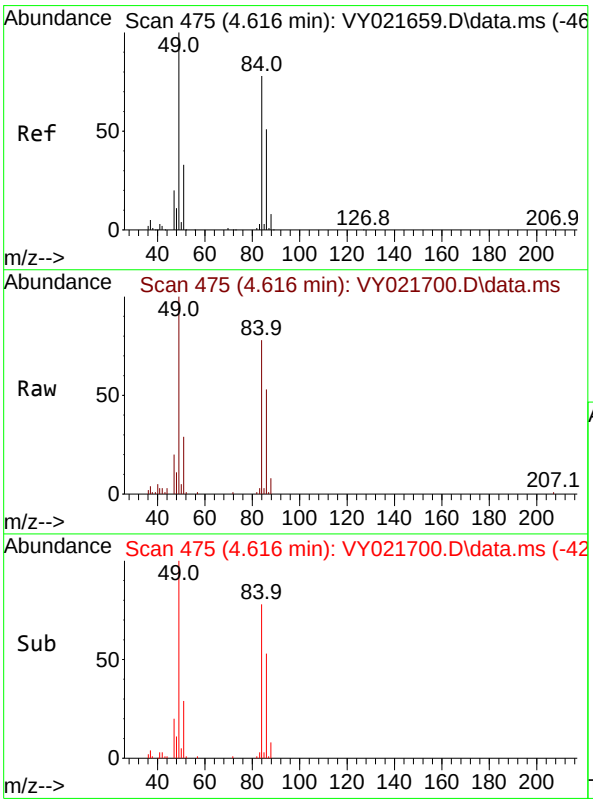
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:168 Resp: 209464

Ion	Ratio	Lower	Upper
168	100		
99	57.0	46.7	70.1

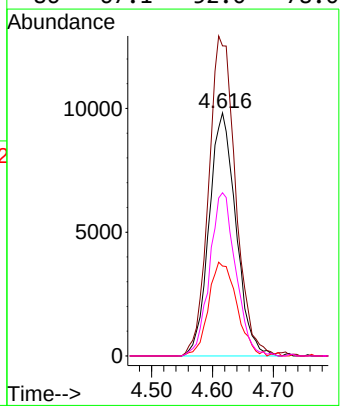


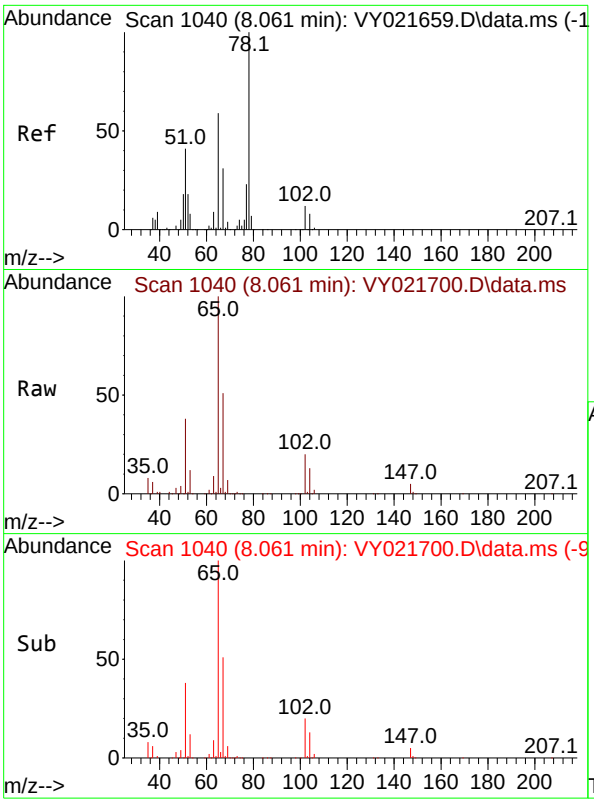


#20
Methylene Chloride
Concen: 10.107 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Tgt Ion: 84 Resp: 29985

Ion	Ratio	Lower	Upper
84	100		
49	127.6	102.8	154.2
51	37.0	33.5	50.3
86	67.1	52.0	78.0



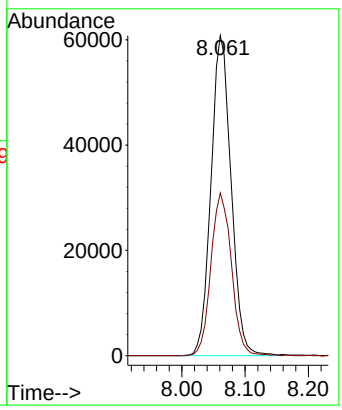


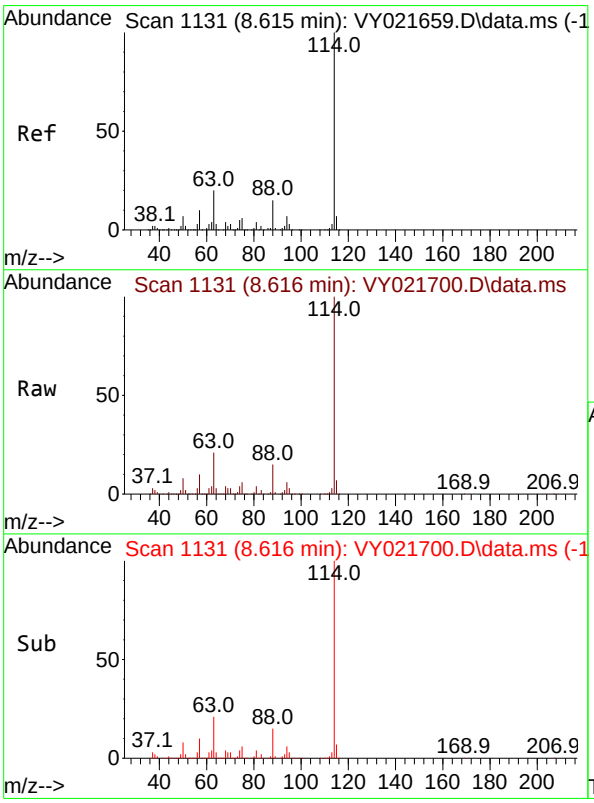
#33
1,2-Dichloroethane-d4
Concen: 59.035 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion: 65 Resp: 133978

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.6

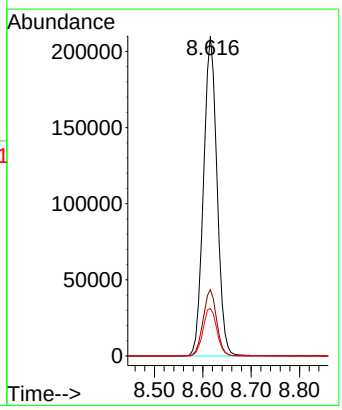


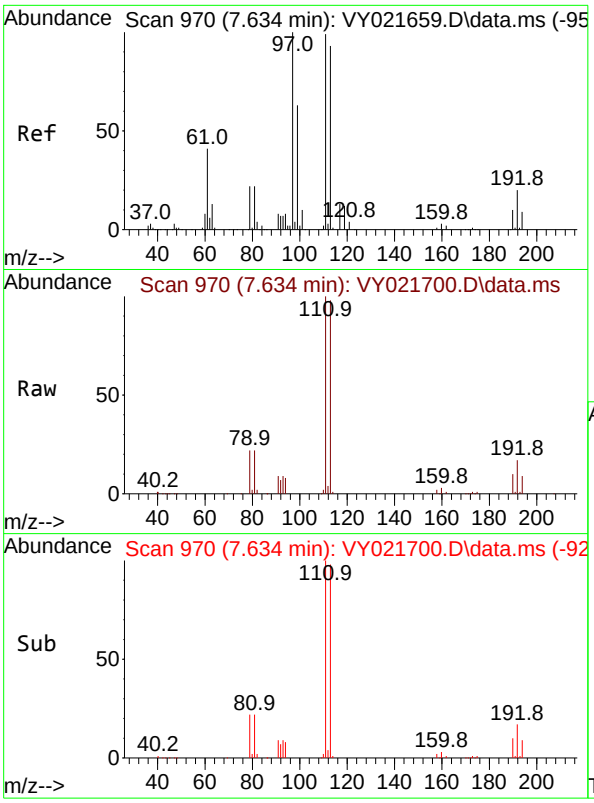


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Tgt Ion:114 Resp: 407285

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.2
88	14.8	0.0	29.8



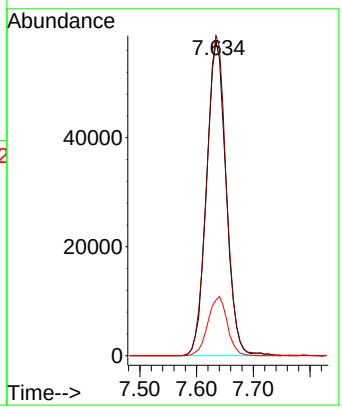


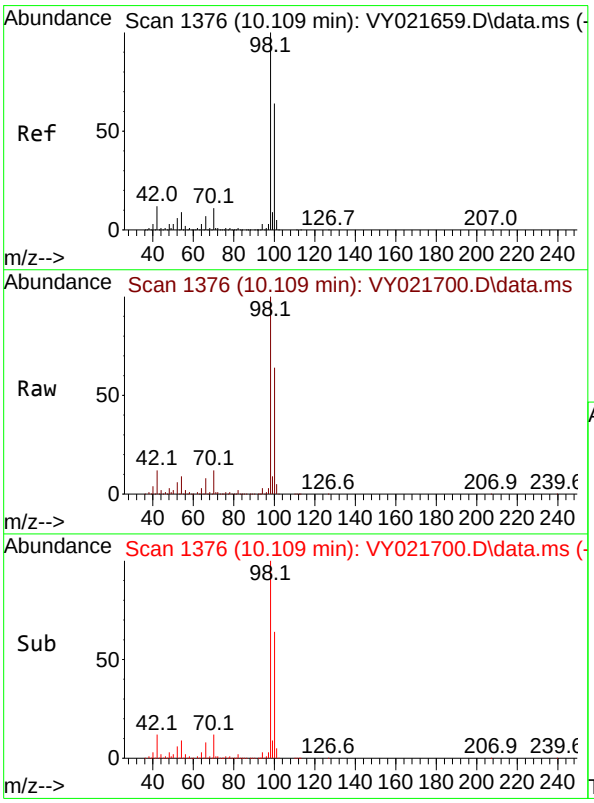
#35
Dibromofluoromethane
Concen: 52.262 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:113 Resp: 138077

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	18.7	16.2	24.4

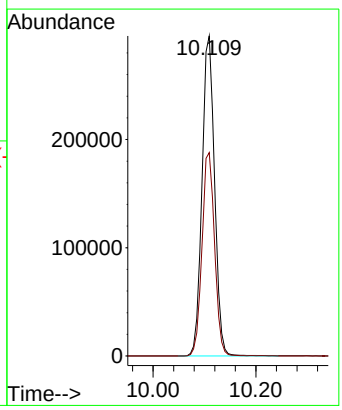


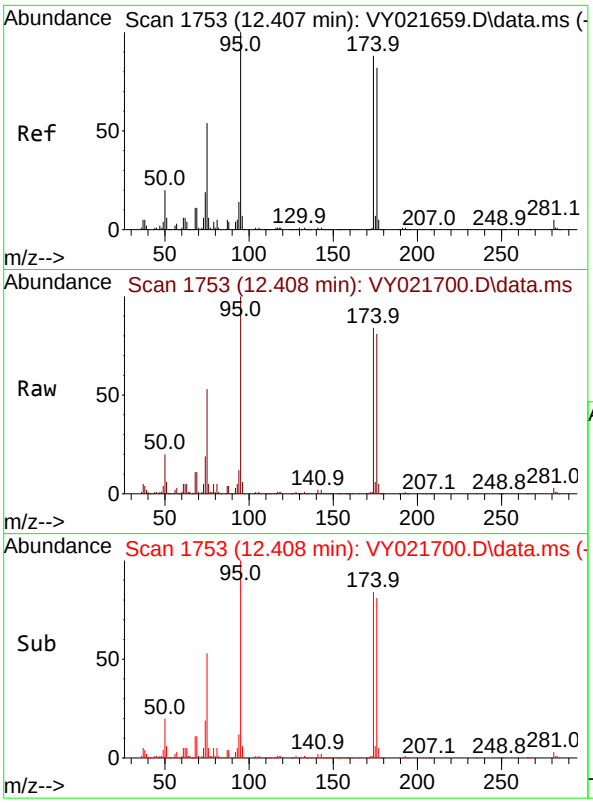


#50
Toluene-d8
Concen: 49.724 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Tgt Ion: 98 Resp: 499769

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.1	78.1



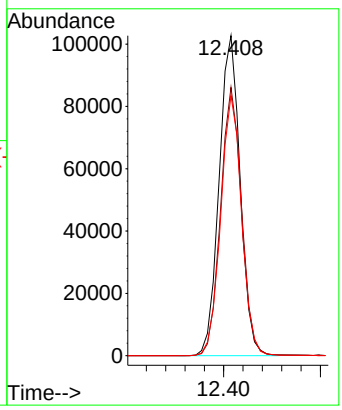


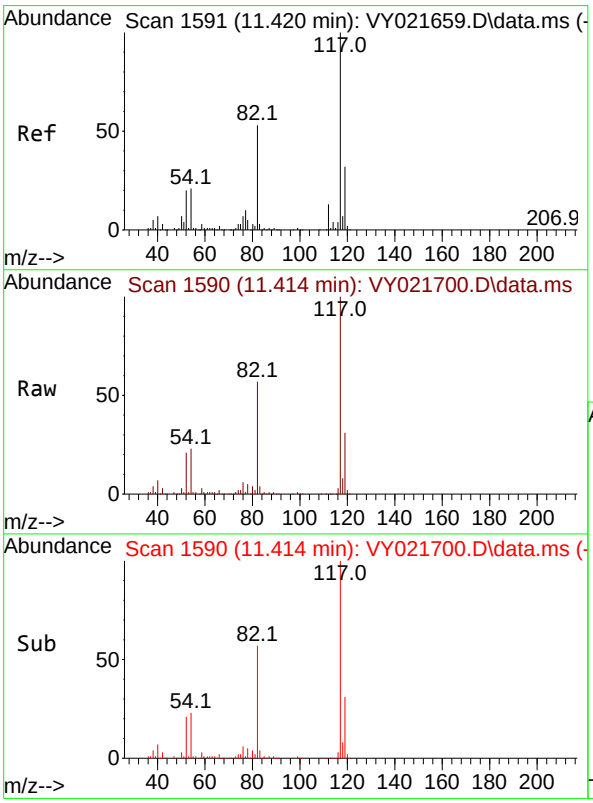
#62
4-Bromofluorobenzene
Concen: 45.462 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion: 95 Resp: 154556

Ion	Ratio	Lower	Upper
95	100		
174	83.4	0.0	170.8
176	80.9	0.0	162.0

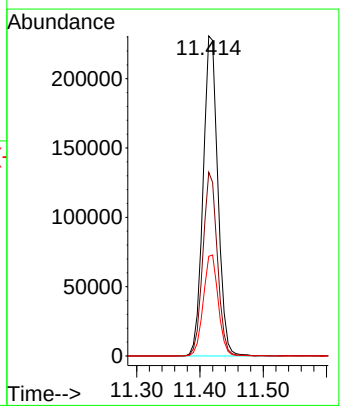


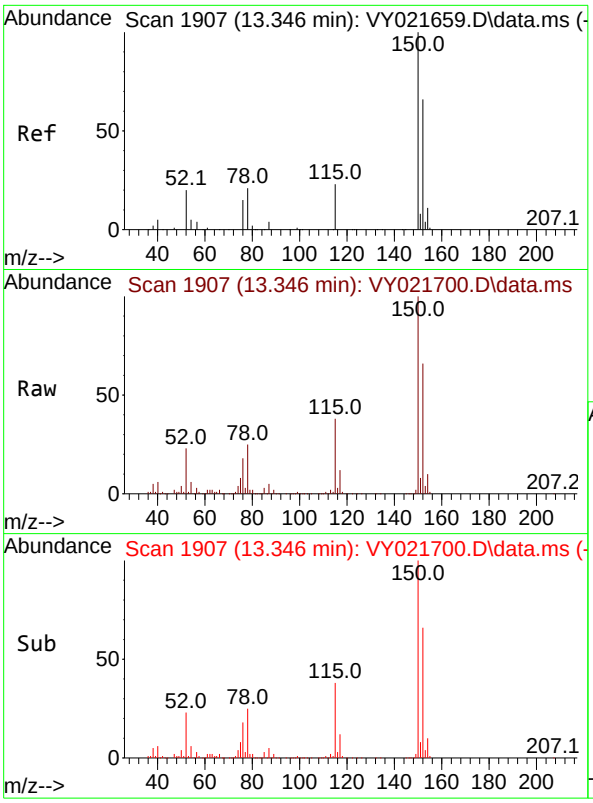


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Tgt Ion:117 Resp: 374541

Ion	Ratio	Lower	Upper
117	100		
82	57.4	42.8	64.2
119	31.1	25.7	38.5



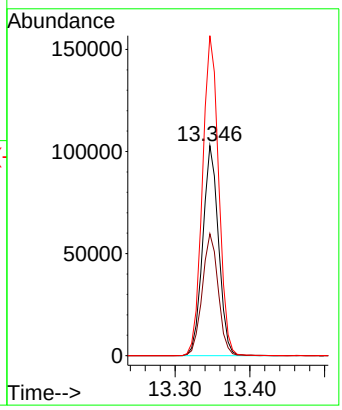


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021700.D
Acq: 28 Mar 2025 18:22

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:152 Resp: 150733

Ion	Ratio	Lower	Upper
152	100		
115	58.8	28.8	86.5
150	156.7	0.0	348.4



Sample Results: **VY021700.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021700.D
Acq On : 28 Mar 2025 18:22
Operator : SY/MD
Sample : Q1664-11
Misc : 4.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021700.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	462	475	490	rBV	41120	133105	9.94%	1.868%
2	5.640	633	643	655	rBV3	11811	39403	2.94%	0.553%
3	6.909	840	851	862	rBV2	8177	32031	2.39%	0.450%
4	7.634	959	970	976	rBV2	195859	466265	34.80%	6.543%
5	7.707	976	982	1000	rVB	281006	646533	48.26%	9.073%
6	8.061	1029	1040	1052	rBV	178457	399531	29.82%	5.607%
7	8.616	1122	1131	1145	rBV	495876	972996	72.63%	13.655%
8	10.109	1367	1376	1384	rBV	781555	1339693	100.00%	18.801%
9	10.505	1434	1441	1449	rBV	34514	64781	4.84%	0.909%
10	10.883	1496	1503	1513	rBV3	13718	29760	2.22%	0.418%
11	11.249	1558	1563	1569	rVB3	10986	19182	1.43%	0.269%
12	11.414	1583	1590	1605	rBV	724337	1187239	88.62%	16.661%
13	12.408	1746	1753	1761	rBV	544788	848682	63.35%	11.910%
14	13.346	1897	1907	1915	rBV	626423	946489	70.65%	13.283%

Sum of corrected areas: 7125690

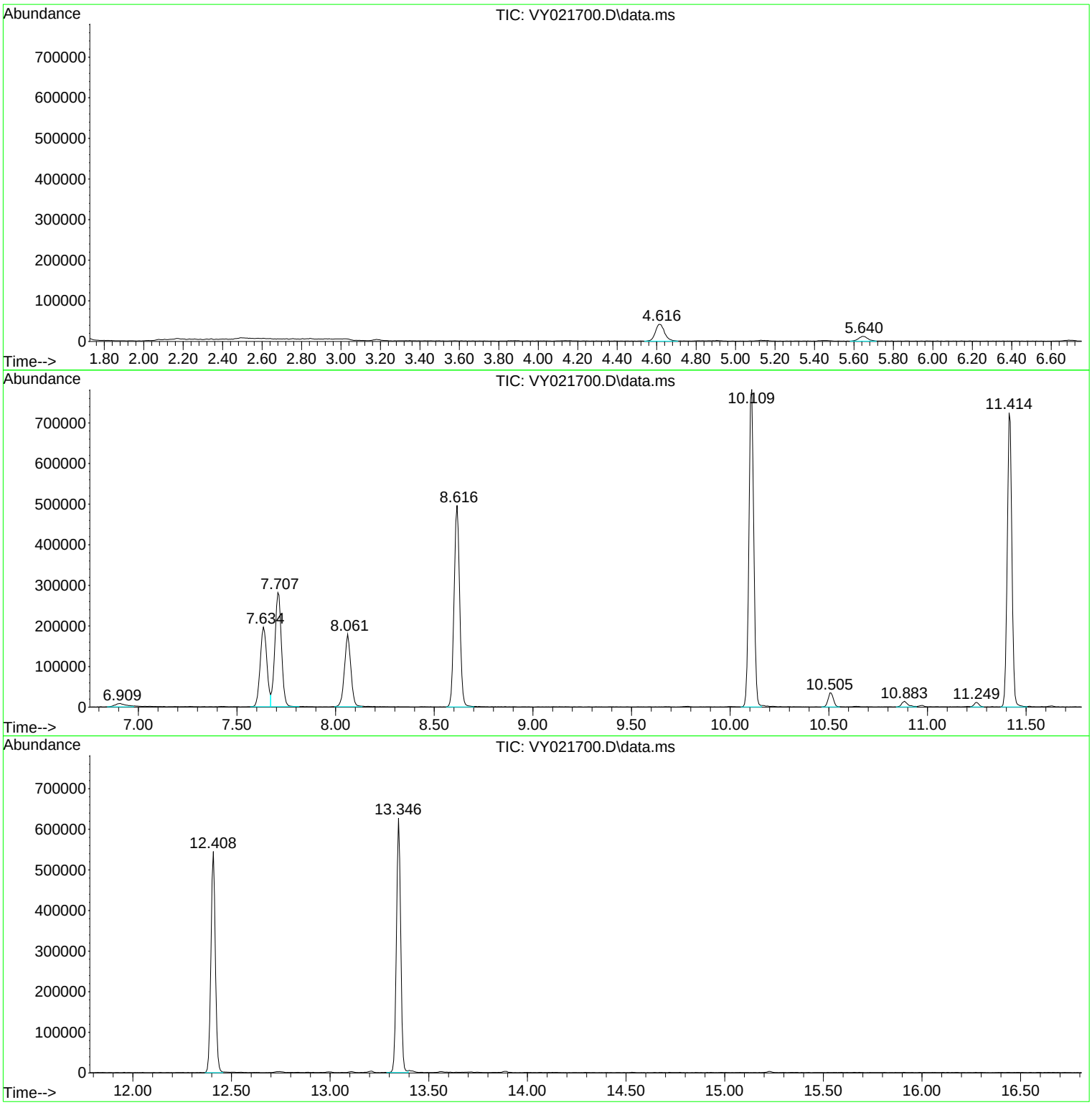
Sample Results: **VY021700.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021700.D
Acq On : 28 Mar 2025 18:22
Operator : SY/MD
Sample : Q1664-11
Misc : 4.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021700.D
Acq On : 28 Mar 2025 18:22
Operator : SY/MD
Sample : Q1664-11
Misc : 4.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021700.D
Acq On : 28 Mar 2025 18:22
Operator : SY/MD
Sample : Q1664-11
Misc : 4.86g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-003-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	95.4
Sample Wt/Vol:	5.46 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021701.D	1		03/28/25 18:45	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.80	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.80	ug/Kg
75-01-4	Vinyl Chloride	0.76	U	0.76	4.80	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.80	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.96	U	0.96	4.80	ug/Kg
67-64-1	Acetone	4.50	U	4.50	24.0	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.70	U	0.70	4.80	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.80	ug/Kg
75-09-2	Methylene Chloride	6.30	J	3.40	9.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.83	U	0.83	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.77	U	0.77	4.80	ug/Kg
110-82-7	Cyclohexane	0.76	U	0.76	4.80	ug/Kg
78-93-3	2-Butanone	6.30	U	6.30	24.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.93	U	0.93	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.72	U	0.72	4.80	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.80	ug/Kg
67-66-3	Chloroform	0.81	U	0.81	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.89	U	0.89	4.80	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	4.80	ug/Kg
71-43-2	Benzene	0.76	U	0.76	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.76	U	0.76	4.80	ug/Kg
79-01-6	Trichloroethene	0.78	U	0.78	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.87	U	0.87	4.80	ug/Kg
75-27-4	Bromodichloromethane	0.75	U	0.75	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	24.0	ug/Kg
108-88-3	Toluene	0.75	U	0.75	4.80	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	95.4
Sample Wt/Vol:	5.46 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021701.D	1		03/28/25 18:45	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.62	U	0.62	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.60	U	0.60	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.88	U	0.88	4.80	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	24.0	ug/Kg
124-48-1	Dibromochloromethane	0.84	U	0.84	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.84	U	0.84	4.80	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.80	ug/Kg
108-90-7	Chlorobenzene	0.87	U	0.87	4.80	ug/Kg
100-41-4	Ethyl Benzene	0.64	U	0.64	4.80	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.60	ug/Kg
95-47-6	o-Xylene	0.79	U	0.79	4.80	ug/Kg
100-42-5	Styrene	0.68	U	0.68	4.80	ug/Kg
75-25-2	Bromoform	0.83	U	0.83	4.80	ug/Kg
98-82-8	Isopropylbenzene	0.75	U	0.75	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.90	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	3.10	4.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.1		63 - 155	124%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		70 - 134	108%	SPK: 50
2037-26-5	Toluene-d8	50.5		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		38 - 136	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	214000	7.707			
540-36-3	1,4-Difluorobenzene	408000	8.615			
3114-55-4	Chlorobenzene-d5	393000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	95.4
Sample Wt/Vol:	5.46 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021701.D	1		03/28/25 18:45	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021701.D
Acq On : 28 Mar 2025 18:45
Operator : SY/MD
Sample : Q1664-13
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Quant Time: Mar 28 23:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

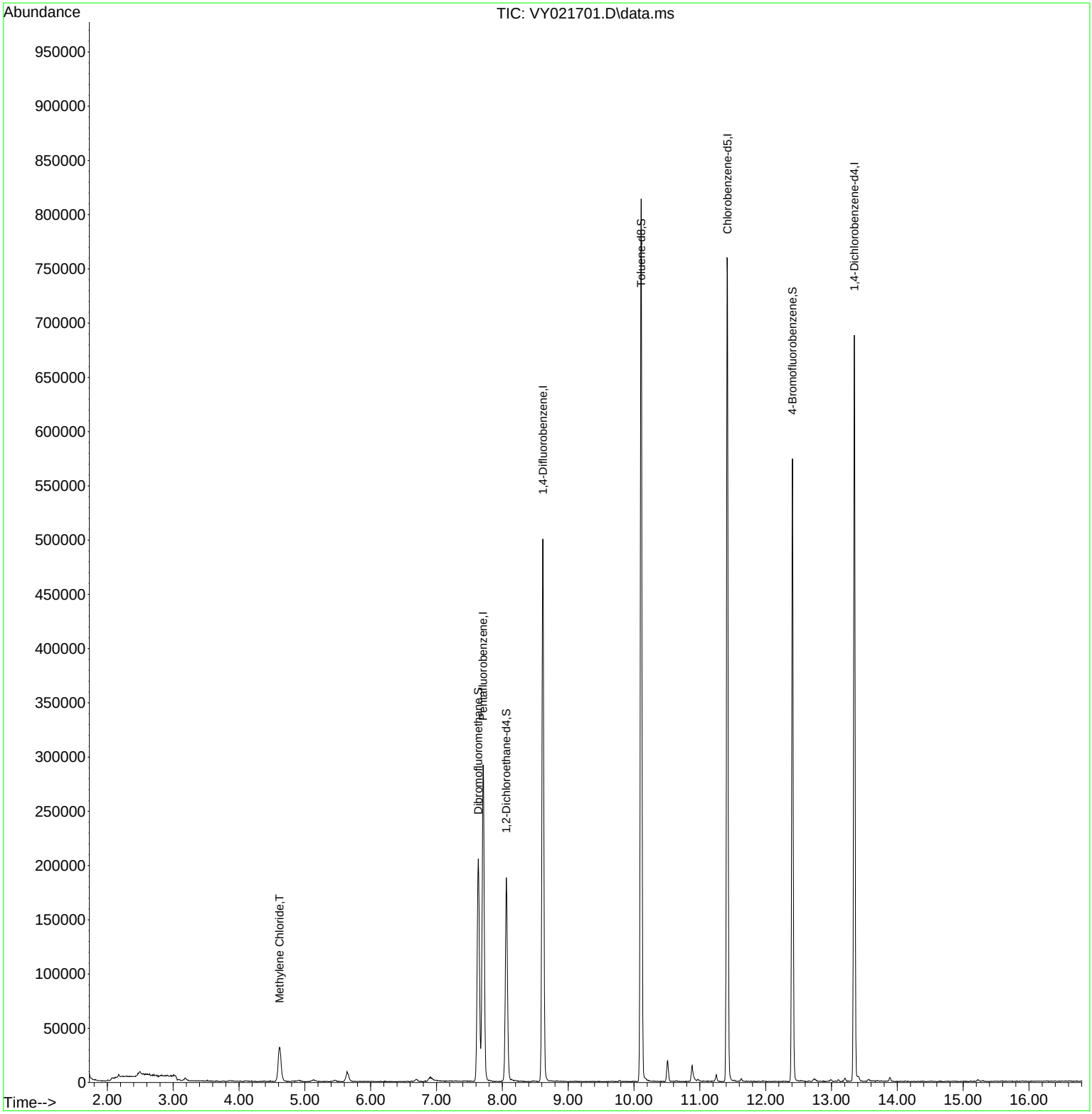
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	214112	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	408446	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	393352	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	162086	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144048	62.094	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.180%			
35) Dibromofluoromethane	7.634	113	143352	54.105	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.200%			
50) Toluene-d8	10.109	98	508516	50.450	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.900%			
62) 4-Bromofluorobenzene	12.407	95	168989	49.566	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.140%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	23151	6.609	ug/l	98

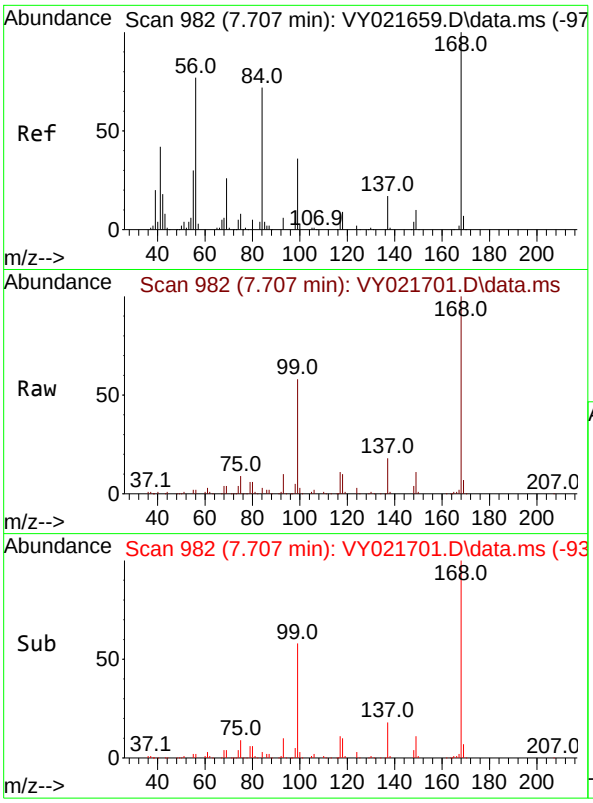
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021701.D
Acq On : 28 Mar 2025 18:45
Operator : SY/MD
Sample : Q1664-13
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Quant Time: Mar 28 23:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



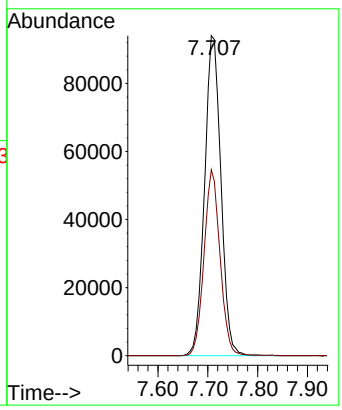


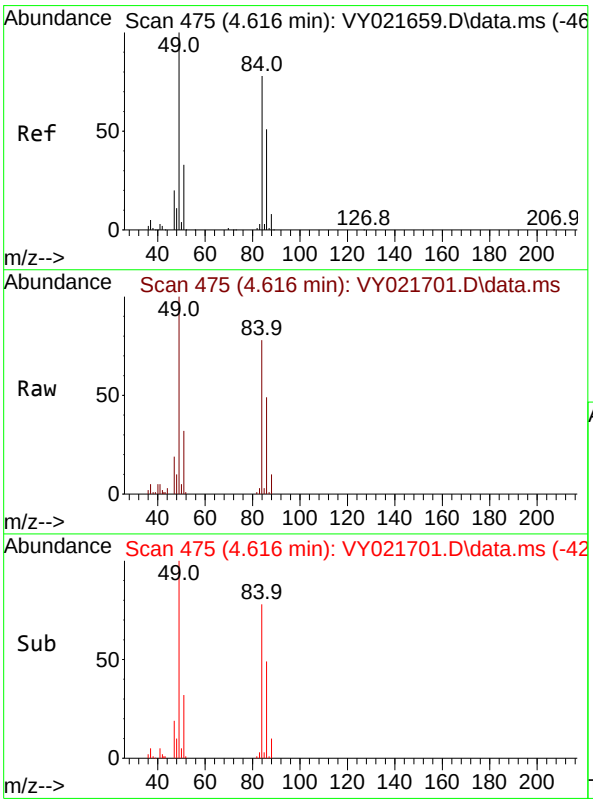
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:168 Resp: 214112

Ion	Ratio	Lower	Upper
168	100		
99	58.1	46.7	70.1

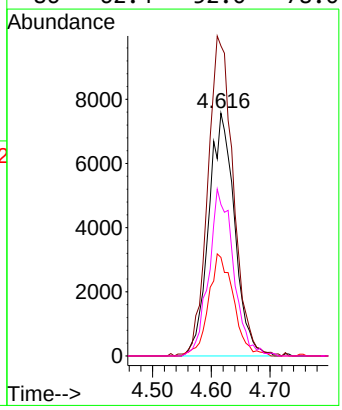


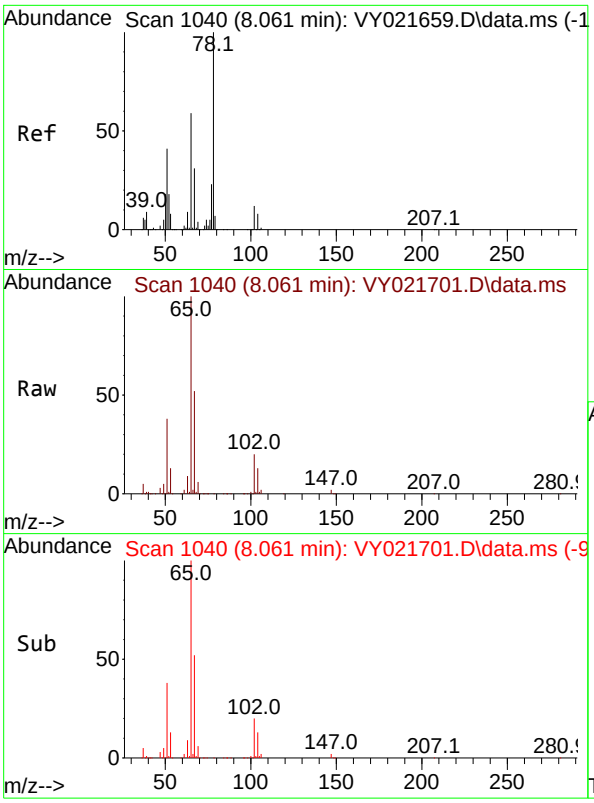


#20
Methylene Chloride
Concen: 6.609 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Tgt Ion: 84 Resp: 23151

Ion	Ratio	Lower	Upper
84	100		
49	126.9	102.8	154.2
51	40.6	33.5	50.3
86	62.4	52.0	78.0



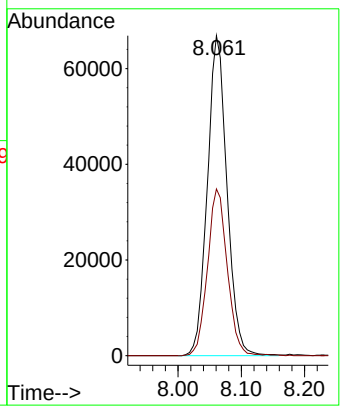


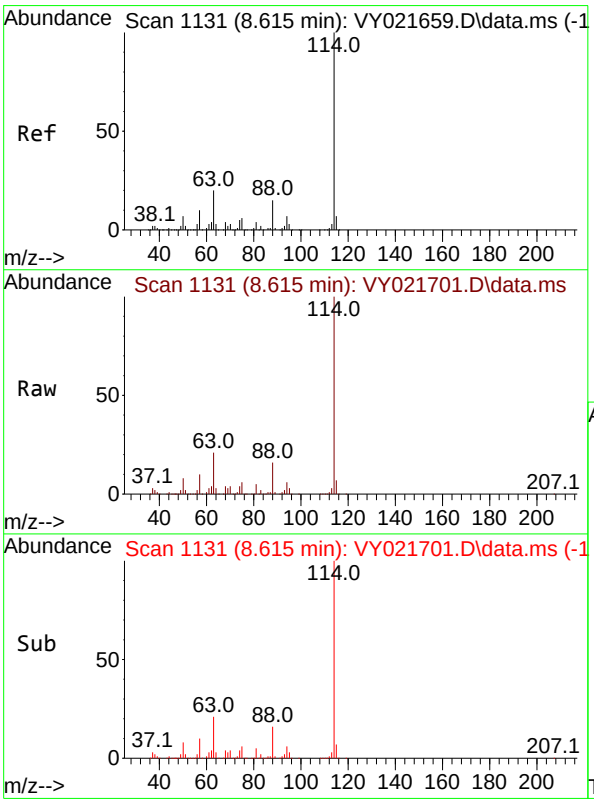
#33
1,2-Dichloroethane-d4
Concen: 62.094 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion: 65 Resp: 144048

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.6

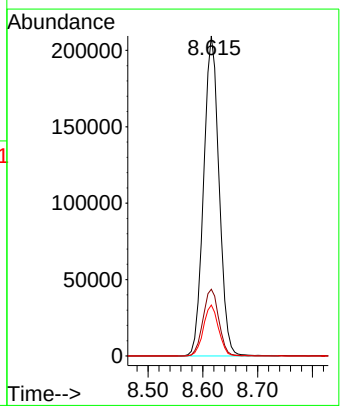


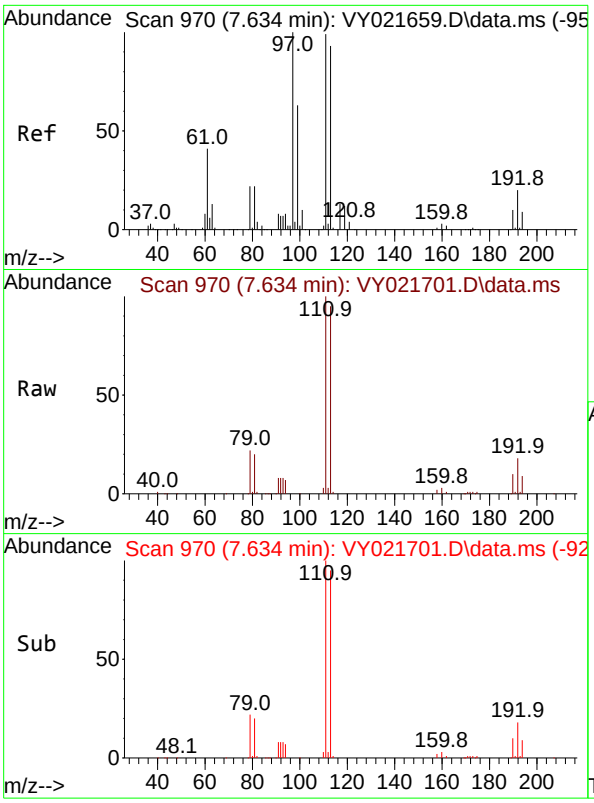


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Tgt Ion:114 Resp: 408446

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.2
88	15.9	0.0	29.8



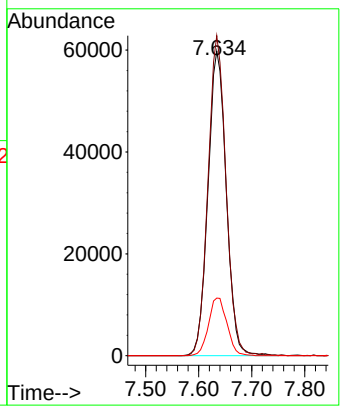


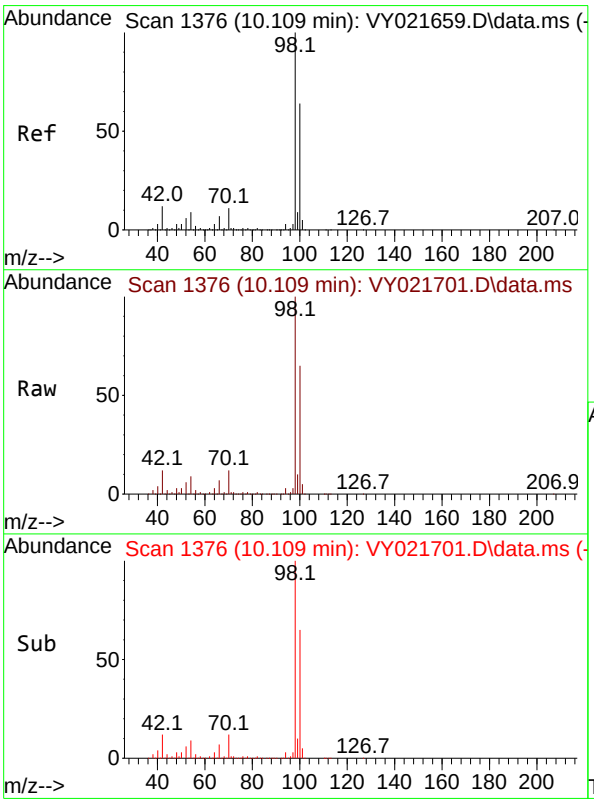
#35
Dibromofluoromethane
Concen: 54.105 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:113 Resp: 143352

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	19.1	16.2	24.4

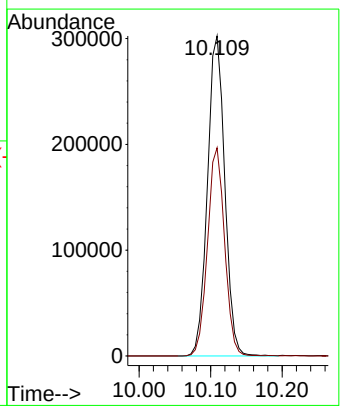


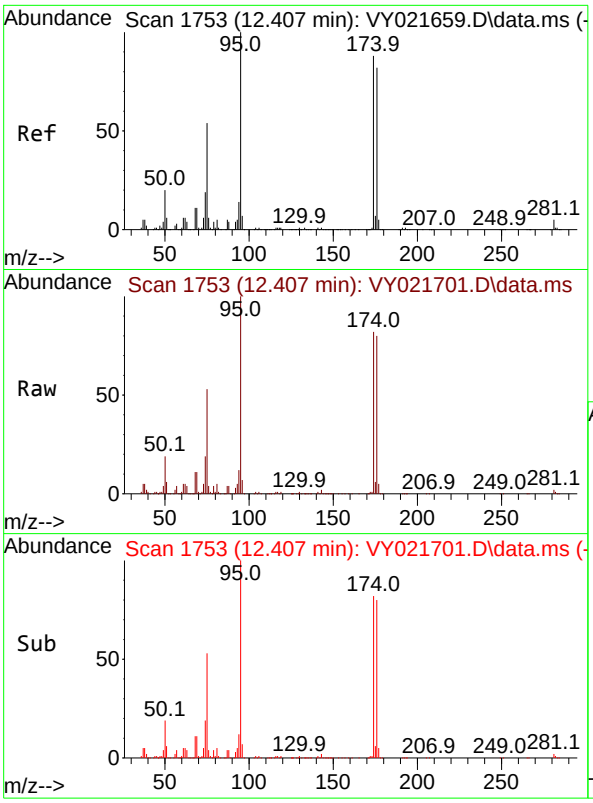


#50
Toluene-d8
Concen: 50.450 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Tgt Ion: 98 Resp: 508516

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.1	78.1



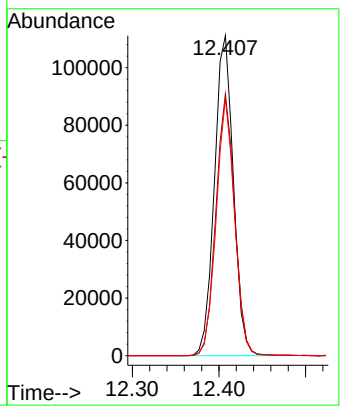


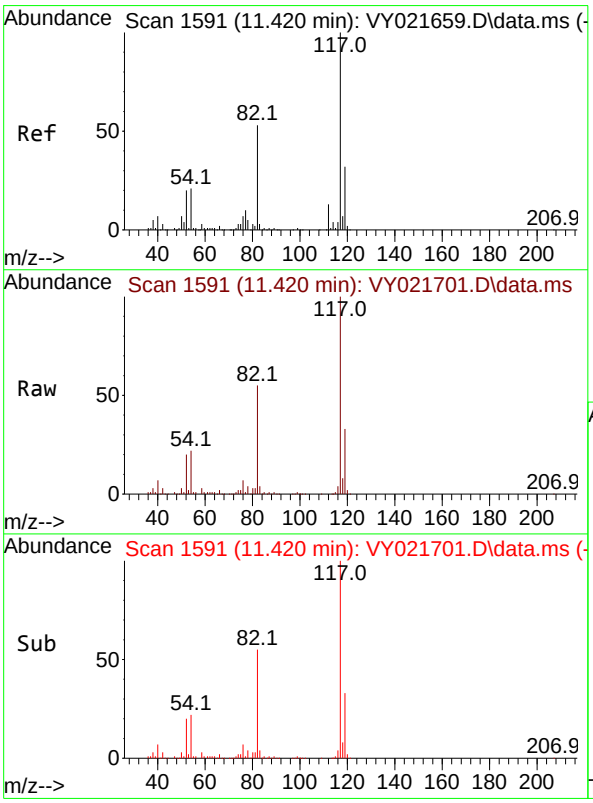
#62
4-Bromofluorobenzene
Concen: 49.566 ug/l
RT: 12.407 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion: 95 Resp: 168989

Ion	Ratio	Lower	Upper
95	100		
174	81.2	0.0	170.8
176	77.9	0.0	162.0

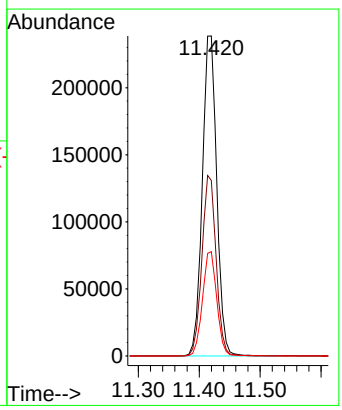


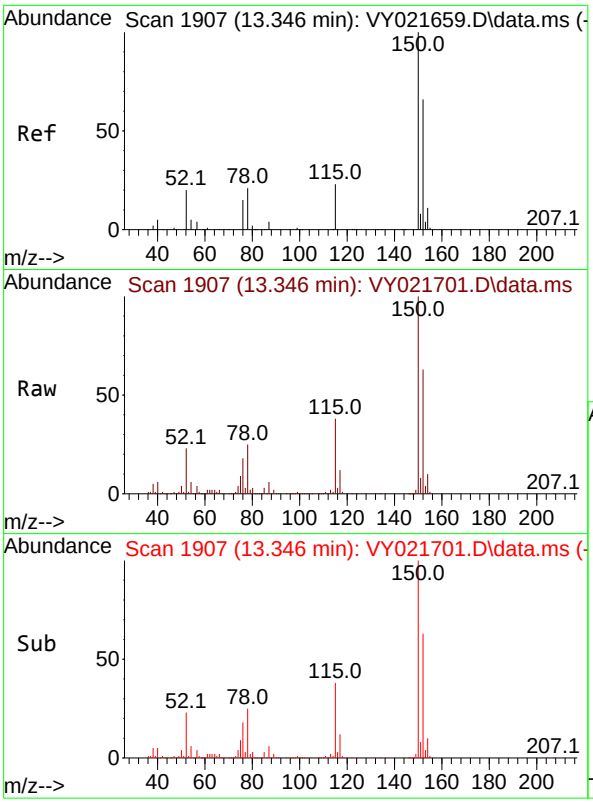


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Tgt Ion:117 Resp: 393352

Ion	Ratio	Lower	Upper
117	100		
82	54.8	42.8	64.2
119	32.6	25.7	38.5



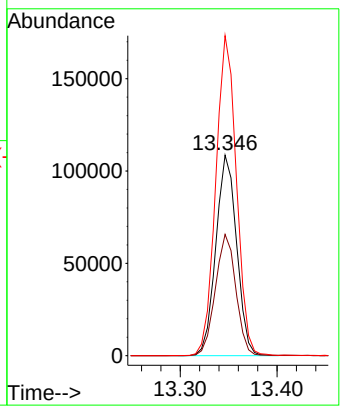


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021701.D
Acq: 28 Mar 2025 18:45

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:152 Resp: 162086

Ion	Ratio	Lower	Upper
152	100		
115	59.7	28.8	86.5
150	158.3	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021701.D
Acq On : 28 Mar 2025 18:45
Operator : SY/MD
Sample : Q1664-13
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021701.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	489	rBV2	31435	101687	7.37%	1.396%
2	5.640	631	643	653	rBV3	9172	27429	1.99%	0.376%
3	7.634	959	970	976	rBV	205124	487760	35.37%	6.694%
4	7.707	976	982	996	rVB	291268	656596	47.62%	9.012%
5	8.061	1026	1040	1050	rBV	188014	415717	30.15%	5.706%
6	8.615	1119	1131	1148	rBV	500486	989012	71.73%	13.574%
7	10.109	1368	1376	1392	rBV	813455	1378870	100.00%	18.924%
8	10.511	1435	1442	1449	rBV2	19330	36107	2.62%	0.496%
9	10.883	1497	1503	1515	rBV	14376	30108	2.18%	0.413%
10	11.414	1581	1590	1603	rBV	759839	1244126	90.23%	17.075%
11	12.407	1744	1753	1764	rBV	574445	894696	64.89%	12.279%
12	13.346	1899	1907	1915	rBV	687581	1024059	74.27%	14.055%

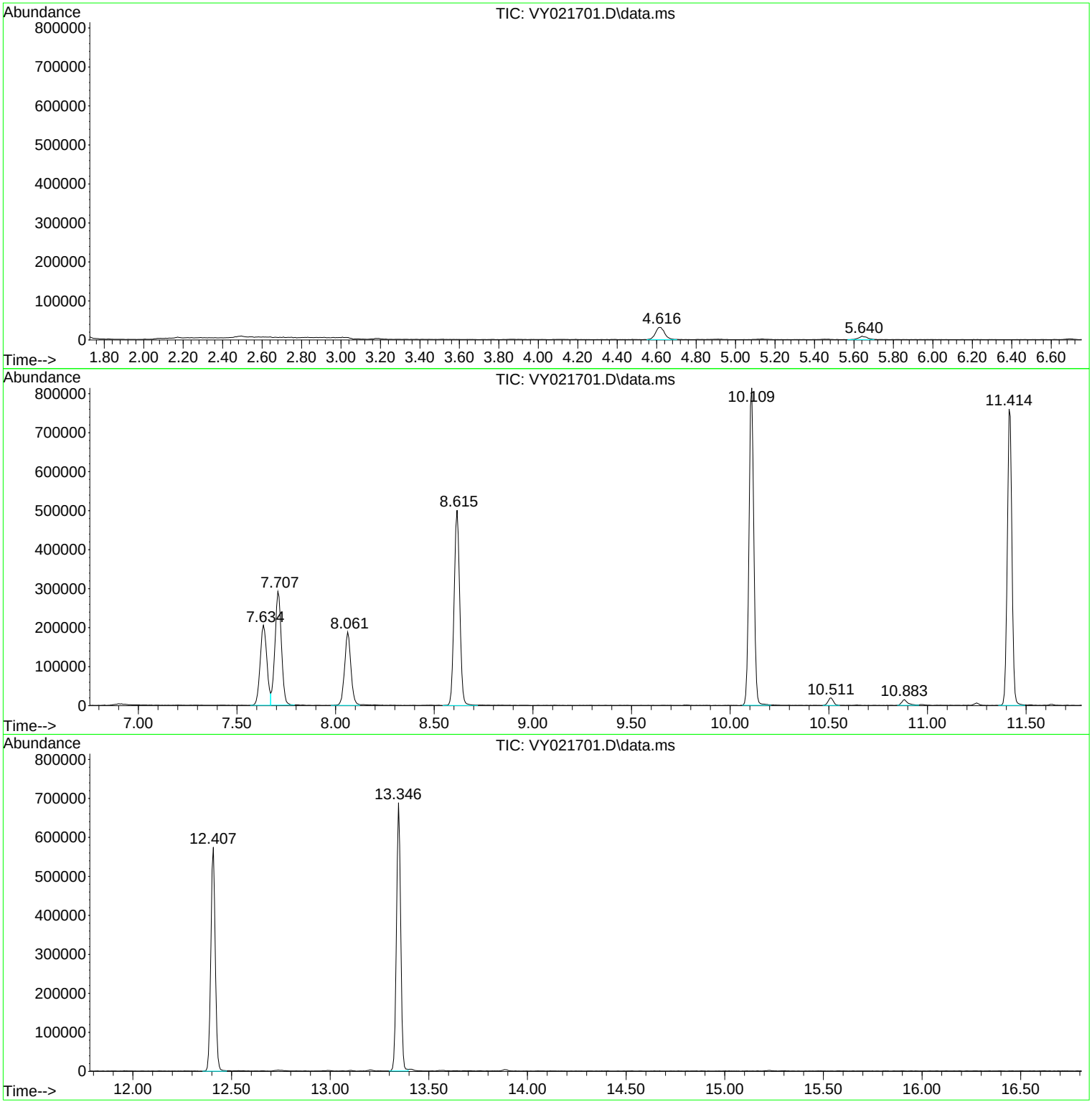
Sum of corrected areas: 7286167

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021701.D
Acq On : 28 Mar 2025 18:45
Operator : SY/MD
Sample : Q1664-13
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021701.D
Acq On : 28 Mar 2025 18:45
Operator : SY/MD
Sample : Q1664-13
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021701.D
Acq On : 28 Mar 2025 18:45
Operator : SY/MD
Sample : Q1664-13
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-004-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-15	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.7
Sample Wt/Vol:	3.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021702.D	1		03/28/25 19:09	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	8.90	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	8.90	ug/Kg
75-01-4	Vinyl Chloride	1.40	U	1.40	8.90	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	8.90	ug/Kg
75-00-3	Chloroethane	2.30	U	2.30	8.90	ug/Kg
75-69-4	Trichlorofluoromethane	2.20	U	2.20	8.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	1.90	8.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	1.80	8.90	ug/Kg
67-64-1	Acetone	8.50	U	8.50	44.7	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	8.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	8.90	ug/Kg
79-20-9	Methyl Acetate	2.80	U	2.80	8.90	ug/Kg
75-09-2	Methylene Chloride	11.8	J	6.30	17.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	8.90	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	8.90	ug/Kg
110-82-7	Cyclohexane	1.40	U	1.40	8.90	ug/Kg
78-93-3	2-Butanone	11.7	U	11.7	44.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	8.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	U	1.30	8.90	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	8.90	ug/Kg
67-66-3	Chloroform	1.50	U	1.50	8.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.70	U	1.70	8.90	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	8.90	ug/Kg
71-43-2	Benzene	1.40	U	1.40	8.90	ug/Kg
107-06-2	1,2-Dichloroethane	1.40	U	1.40	8.90	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.60	U	1.60	8.90	ug/Kg
75-27-4	Bromodichloromethane	1.40	U	1.40	8.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.40	U	6.40	44.7	ug/Kg
108-88-3	Toluene	1.40	U	1.40	8.90	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-15	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.7
Sample Wt/Vol:	3.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021702.D	1		03/28/25 19:09	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.20	U	1.20	8.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.10	U	1.10	8.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	8.90	ug/Kg
591-78-6	2-Hexanone	6.60	U	6.60	44.7	ug/Kg
124-48-1	Dibromochloromethane	1.60	U	1.60	8.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.60	U	1.60	8.90	ug/Kg
127-18-4	Tetrachloroethene	1.90	U	1.90	8.90	ug/Kg
108-90-7	Chlorobenzene	1.60	U	1.60	8.90	ug/Kg
100-41-4	Ethyl Benzene	1.20	U	1.20	8.90	ug/Kg
179601-23-1	m/p-Xylenes	2.20	U	2.20	17.9	ug/Kg
95-47-6	o-Xylene	1.50	U	1.50	8.90	ug/Kg
100-42-5	Styrene	1.30	U	1.30	8.90	ug/Kg
75-25-2	Bromoform	1.50	U	1.50	8.90	ug/Kg
98-82-8	Isopropylbenzene	1.40	U	1.40	8.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.20	U	2.20	8.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.10	U	3.10	8.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.80	U	2.80	8.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.60	U	2.60	8.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.30	U	3.30	8.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.30	U	5.30	8.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.70	U	5.70	8.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.7		63 - 155	115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		38 - 136	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.707			
540-36-3	1,4-Difluorobenzene	415000	8.616			
3114-55-4	Chlorobenzene-d5	390000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	155000	13.347			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-15	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.7
Sample Wt/Vol:	3.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021702.D	1		03/28/25 19:09	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021702.D
Acq On : 28 Mar 2025 19:09
Operator : SY/MD
Sample : Q1664-15
Misc : 3.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Quant Time: Mar 28 23:48:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

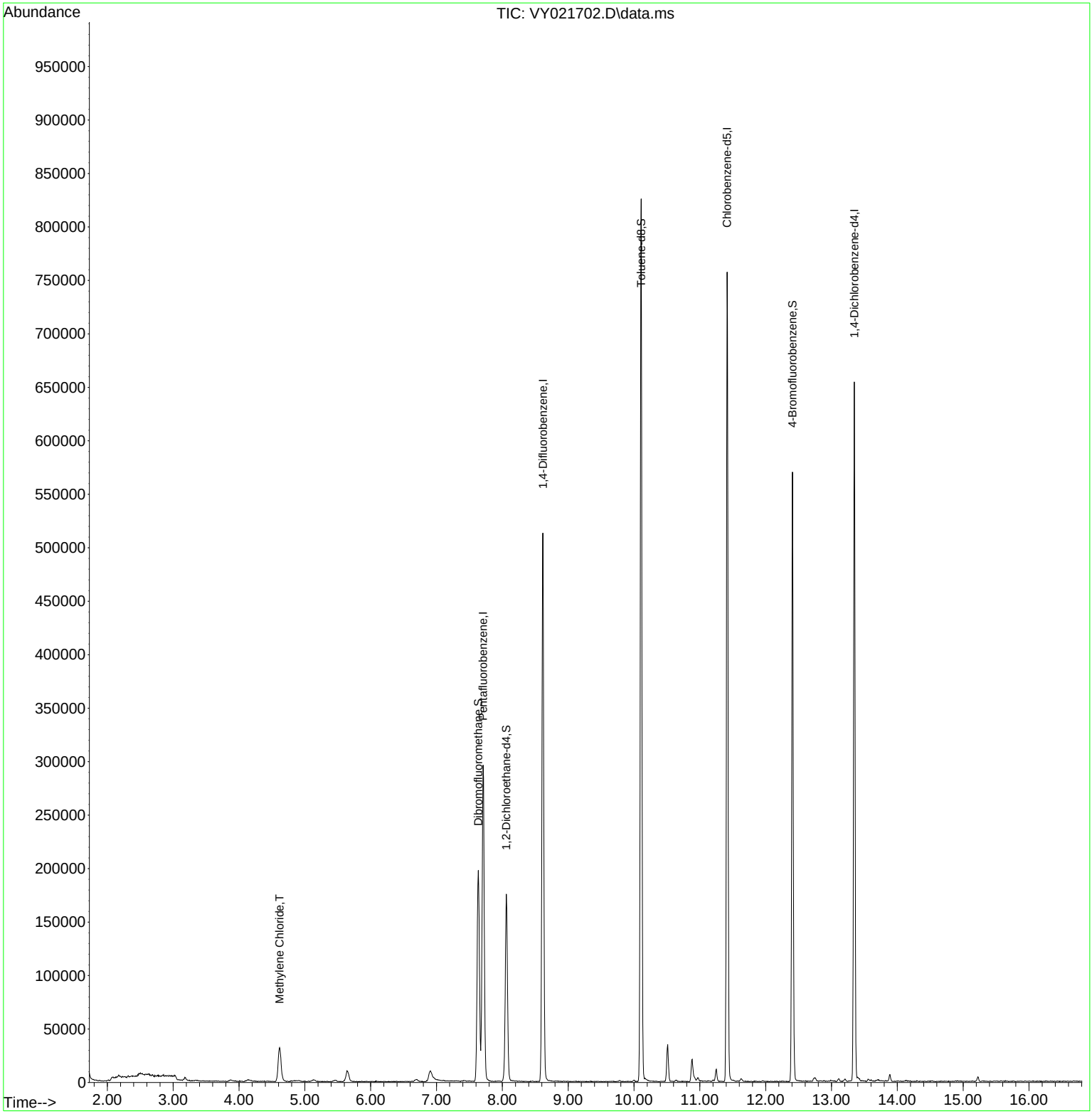
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	217469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	415021	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	390450	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	155440	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	135891	57.673	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.340%			
35) Dibromofluoromethane	7.634	113	141286	52.480	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.960%			
50) Toluene-d8	10.109	98	516526	50.433	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.860%			
62) 4-Bromofluorobenzene	12.408	95	160413	46.305	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.600%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	23502	6.603	ug/l	94

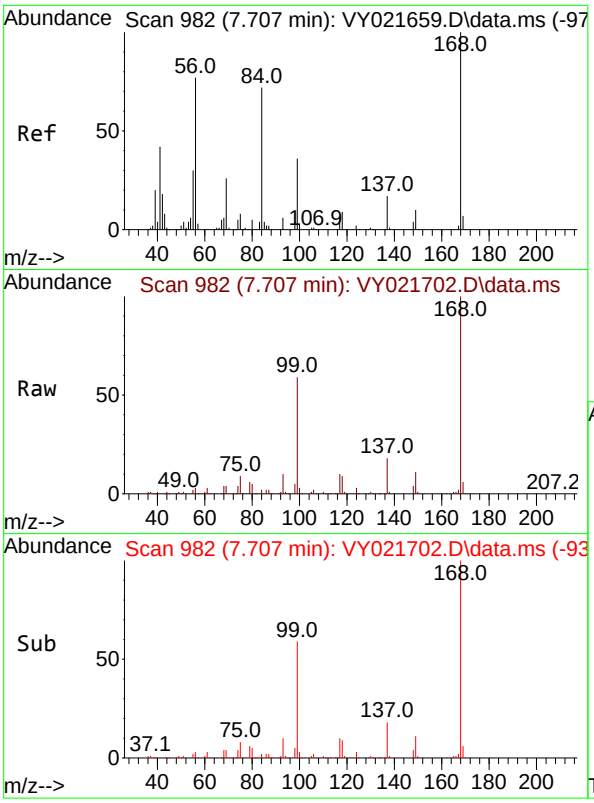
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021702.D
Acq On : 28 Mar 2025 19:09
Operator : SY/MD
Sample : Q1664-15
Misc : 3.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Quant Time: Mar 28 23:48:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



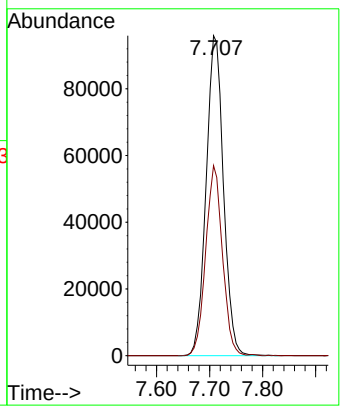


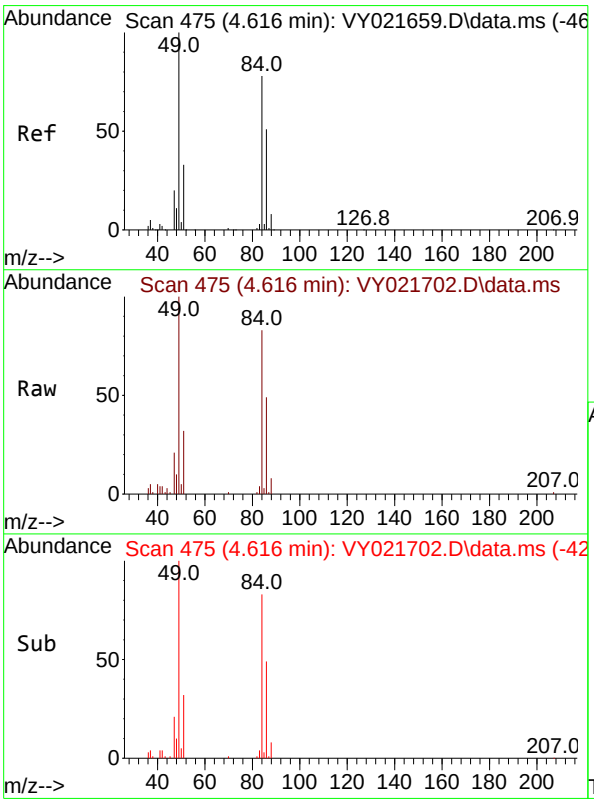
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:168 Resp: 217469

Ion	Ratio	Lower	Upper
168	100		
99	59.4	46.7	70.1

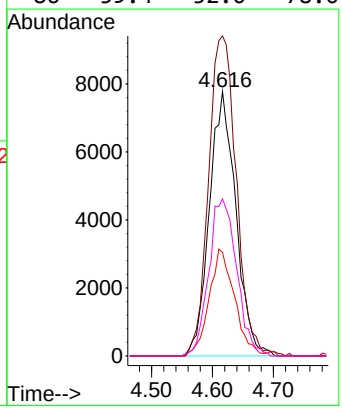


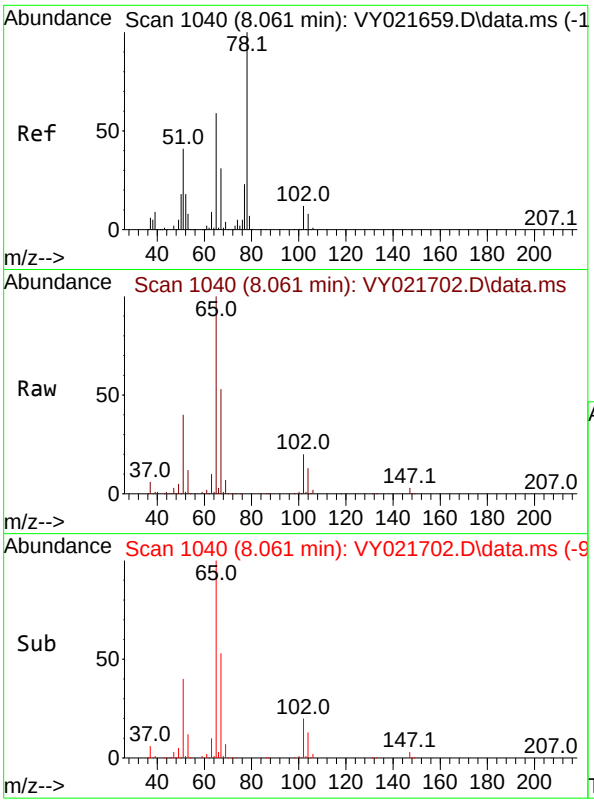


#20
Methylene Chloride
Concen: 6.603 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Tgt Ion: 84 Resp: 23502

Ion	Ratio	Lower	Upper
84	100		
49	120.9	102.8	154.2
51	39.2	33.5	50.3
86	59.4	52.0	78.0



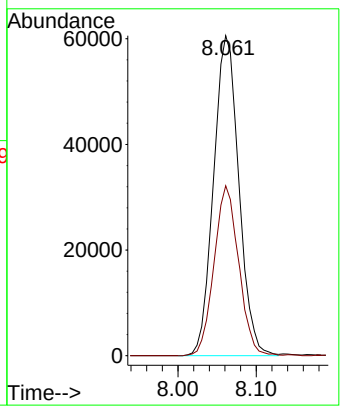


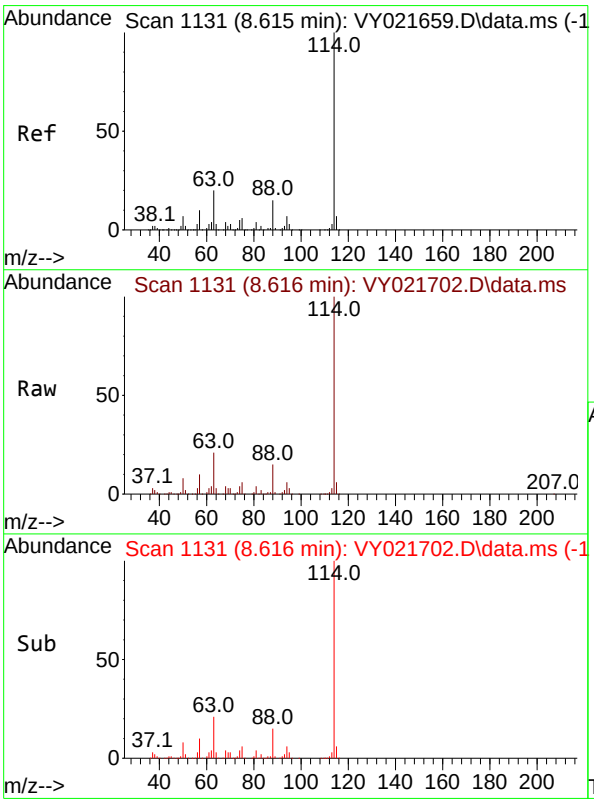
#33
1,2-Dichloroethane-d4
Concen: 57.673 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion: 65 Resp: 135891

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.6

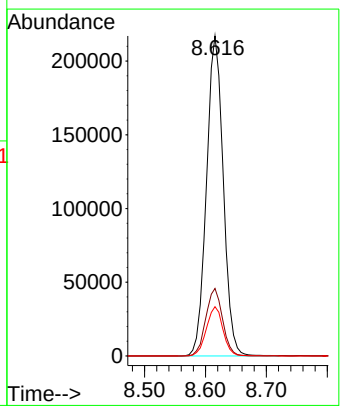


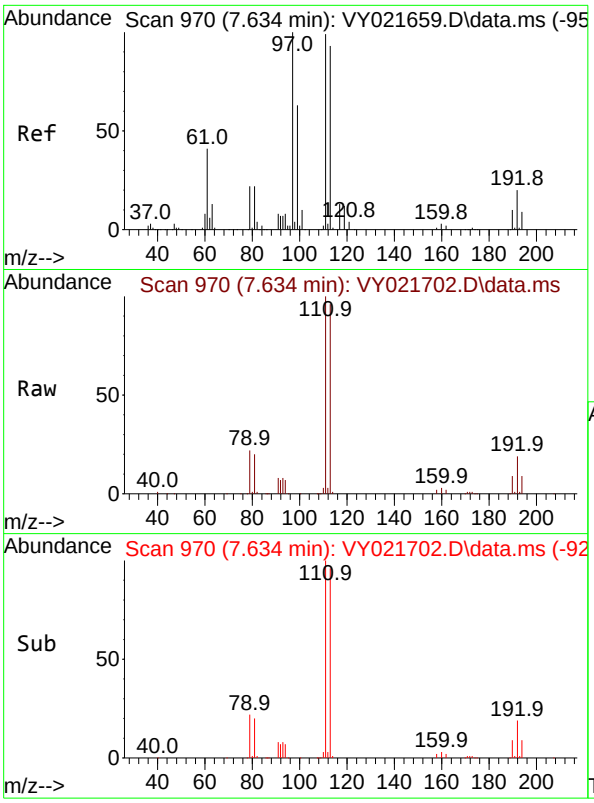


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Tgt Ion:114 Resp: 415021

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.2
88	15.4	0.0	29.8



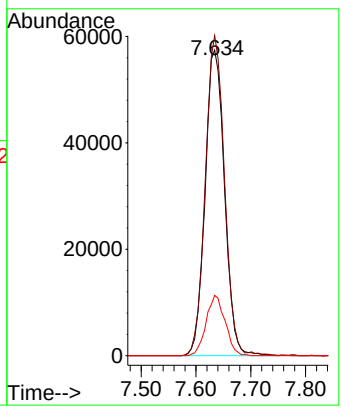


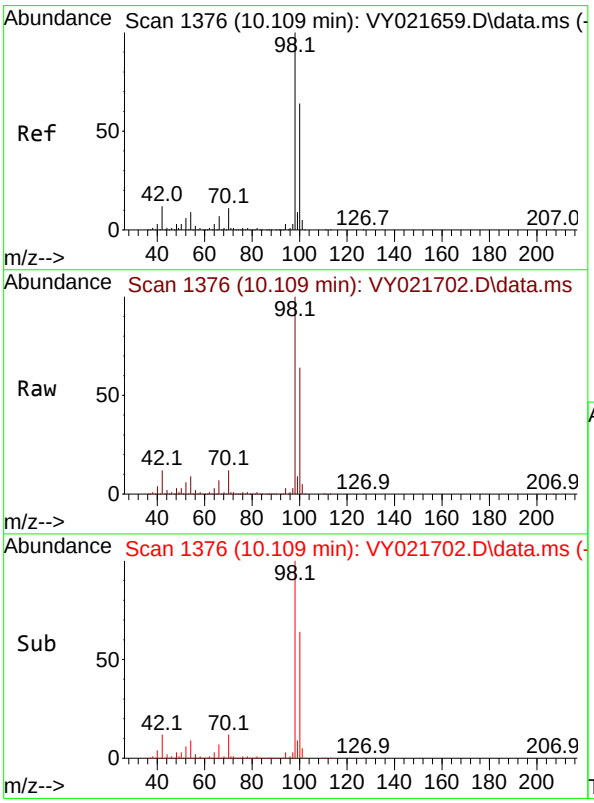
#35
Dibromofluoromethane
Concen: 52.480 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:113 Resp: 141286

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	123.8
192	19.3	16.2	24.4

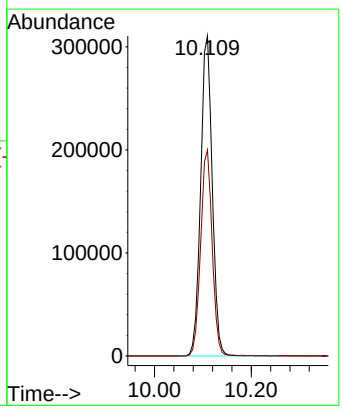


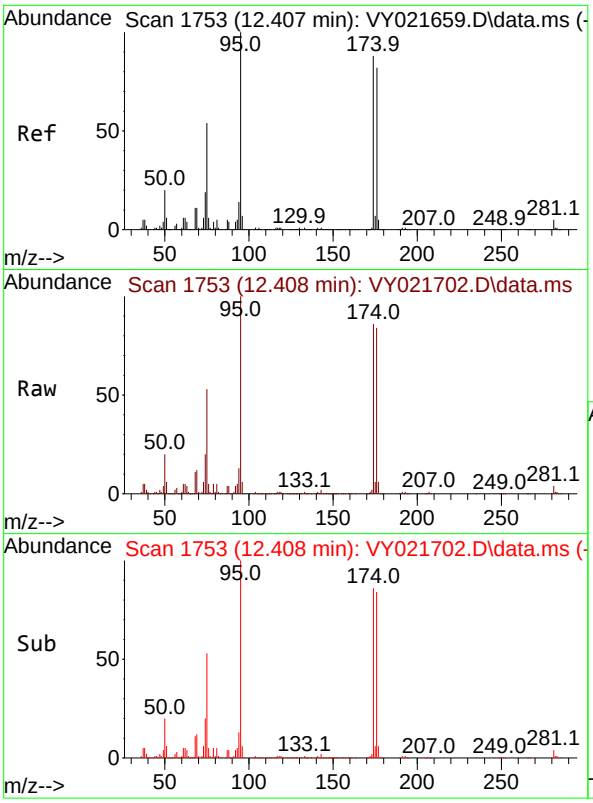


#50
Toluene-d8
Concen: 50.433 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Tgt Ion: 98 Resp: 516526

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.1	78.1



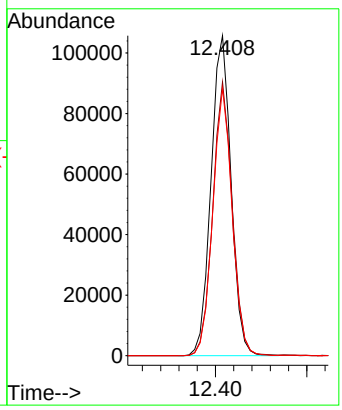


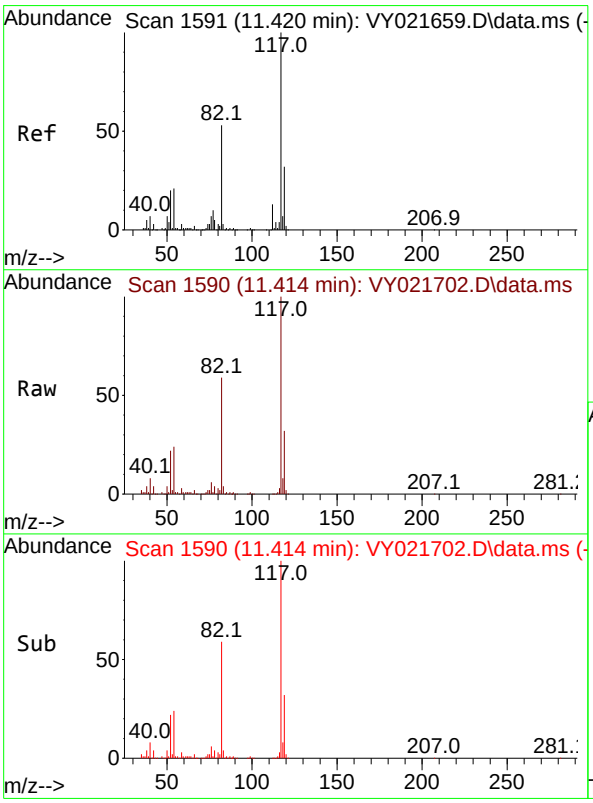
#62
4-Bromofluorobenzene
Concen: 46.305 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion: 95 Resp: 160413

Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	170.8
176	81.0	0.0	162.0

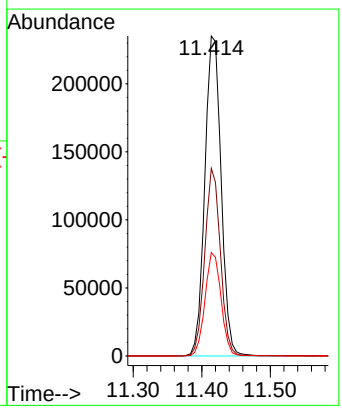


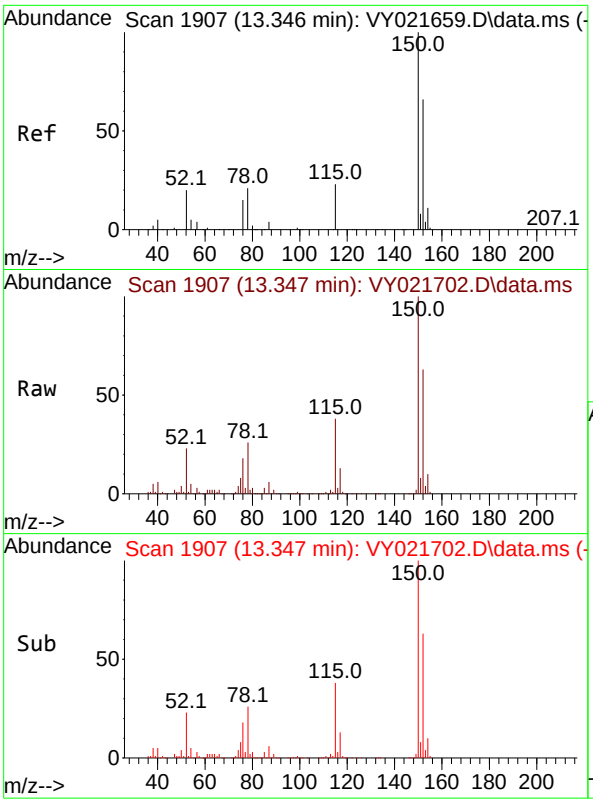


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Tgt Ion:117 Resp: 390450

Ion	Ratio	Lower	Upper
117	100		
82	58.7	42.8	64.2
119	32.3	25.7	38.5



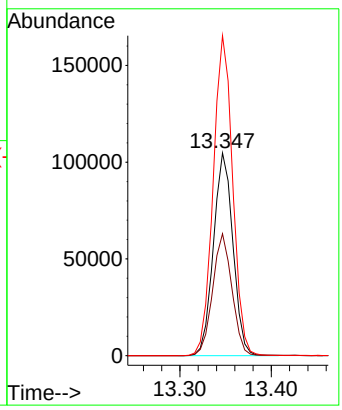


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021702.D
Acq: 28 Mar 2025 19:09

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:152 Resp: 155440

Ion	Ratio	Lower	Upper
152	100		
115	59.4	28.8	86.5
150	157.9	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021702.D
Acq On : 28 Mar 2025 19:09
Operator : SY/MD
Sample : Q1664-15
Misc : 3.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021702.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	492	rBV2	31818	103155	7.44%	1.404%
2	5.641	631	643	659	rBV4	10198	32948	2.38%	0.448%
3	6.909	843	851	864	rBV2	9200	36375	2.62%	0.495%
4	7.634	960	970	976	rBV	197419	479716	34.61%	6.528%
5	7.707	976	982	1003	rVB	295860	672005	48.49%	9.145%
6	8.061	1027	1040	1051	rBV	175440	406039	29.30%	5.526%
7	8.616	1122	1131	1144	rBV	512953	995465	71.83%	13.547%
8	10.109	1366	1376	1384	rBV	825533	1385928	100.00%	18.861%
9	10.512	1435	1442	1449	rBV	34519	61691	4.45%	0.840%
10	10.884	1495	1503	1513	rBV3	20900	47651	3.44%	0.648%
11	11.249	1557	1563	1570	rVB2	11446	20396	1.47%	0.278%
12	11.414	1582	1590	1602	rBV	756933	1232432	88.92%	16.772%
13	12.408	1744	1753	1765	rBV	570173	897547	64.76%	12.214%
14	13.347	1898	1907	1914	rBV	653722	976935	70.49%	13.295%

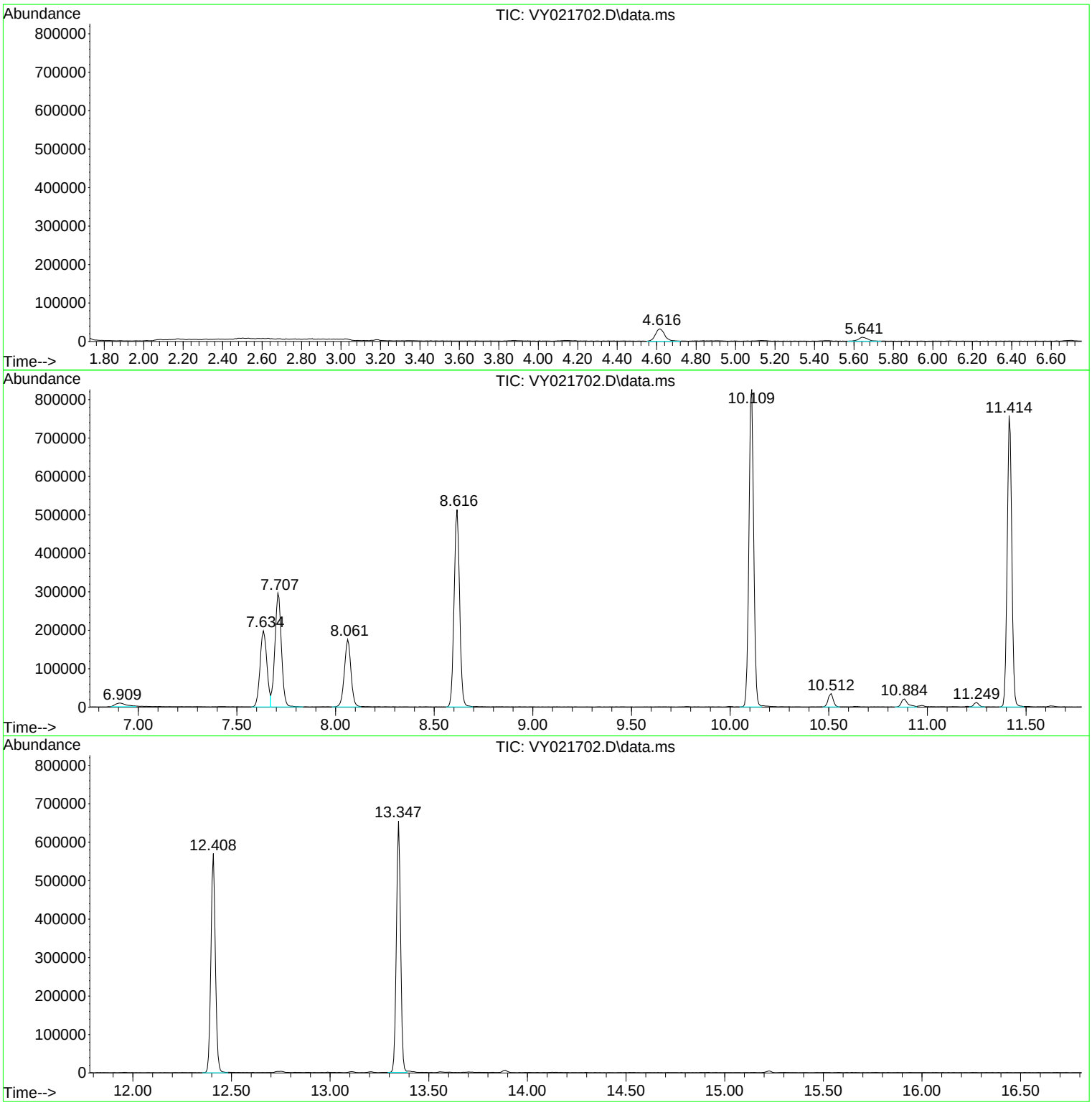
Sum of corrected areas: 7348283

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021702.D
Acq On : 28 Mar 2025 19:09
Operator : SY/MD
Sample : Q1664-15
Misc : 3.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021702.D
Acq On : 28 Mar 2025 19:09
Operator : SY/MD
Sample : Q1664-15
Misc : 3.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021702.D
Acq On : 28 Mar 2025 19:09
Operator : SY/MD
Sample : Q1664-15
Misc : 3.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-005-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-17	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.9
Sample Wt/Vol:	5.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021703.D	1		03/28/25 19:32	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.60	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.60	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.2	ug/Kg
75-15-0	Carbon Disulfide	0.98	U	0.98	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	5.90	J	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.74	U	0.74	4.60	ug/Kg
110-82-7	Cyclohexane	0.73	U	0.73	4.60	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.90	U	0.90	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.60	ug/Kg
71-43-2	Benzene	0.73	U	0.73	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.2	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-17	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.9
Sample Wt/Vol:	5.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021703.D	1		03/28/25 19:32	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.2	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	4.60	ug/Kg
108-90-7	Chlorobenzene	0.84	U	0.84	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.76	U	0.76	4.60	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.60	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.72	U	0.72	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		38 - 136	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	216000	7.707			
540-36-3	1,4-Difluorobenzene	410000	8.616			
3114-55-4	Chlorobenzene-d5	382000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-17	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.9
Sample Wt/Vol:	5.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021703.D	1		03/28/25 19:32	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021703.D
Acq On : 28 Mar 2025 19:32
Operator : SY/MD
Sample : Q1664-17
Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Quant Time: Mar 28 23:48:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

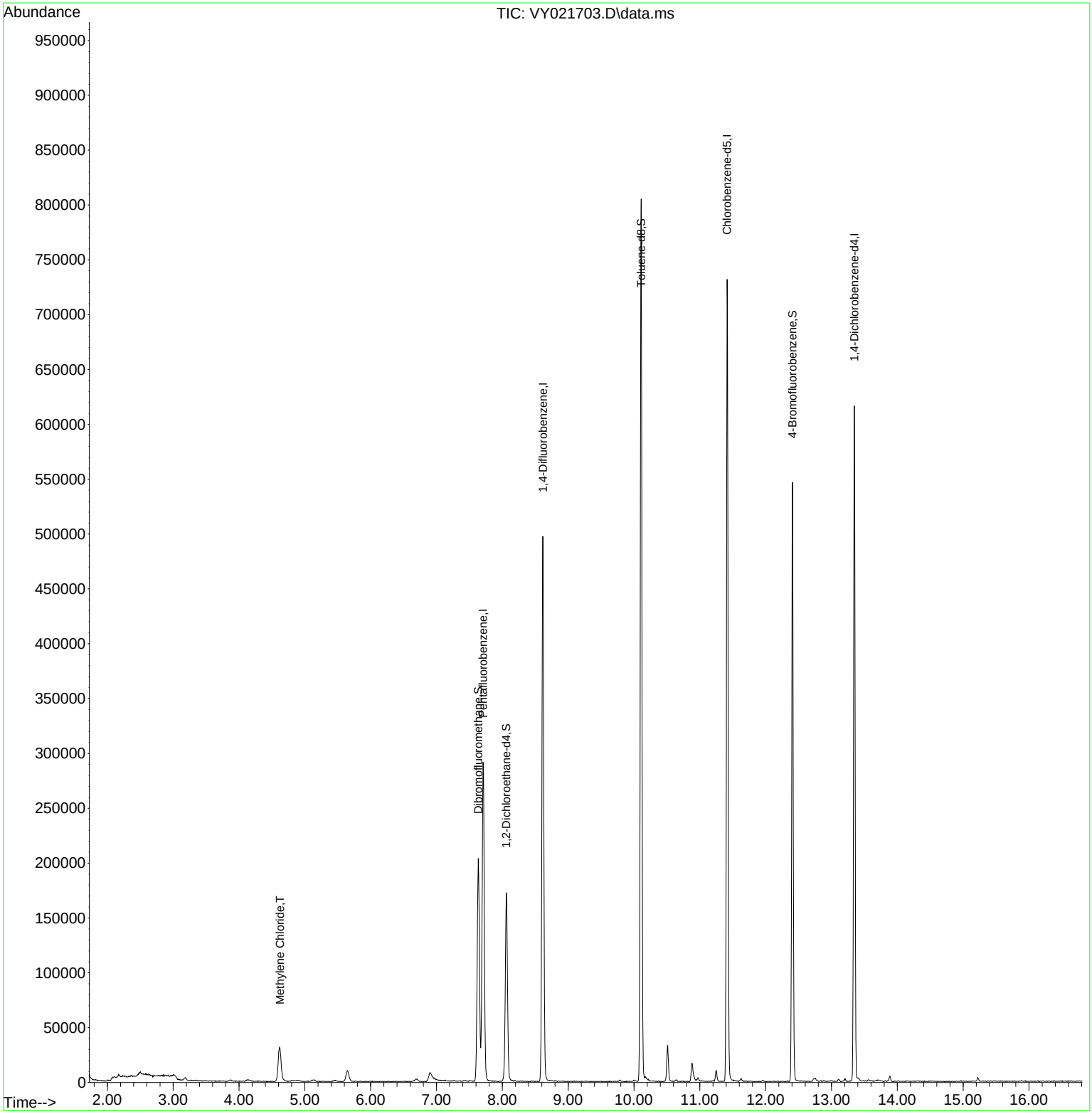
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	216084	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	410241	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	381513	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	151297	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	133444	56.998	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.000%			
35) Dibromofluoromethane	7.634	113	140354	52.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.480%			
50) Toluene-d8	10.109	98	508912	50.269	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.540%			
62) 4-Bromofluorobenzene	12.408	95	156593	45.729	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.460%			
Target Compounds						Qvalue
20) Methylene Chloride	4.622	84	22927	6.406	ug/l	94

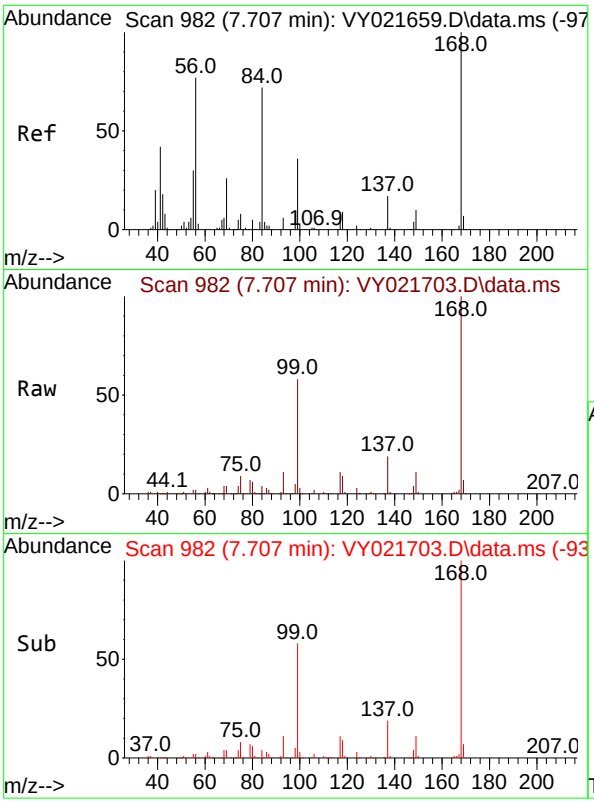
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021703.D
Acq On : 28 Mar 2025 19:32
Operator : SY/MD
Sample : Q1664-17
Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Quant Time: Mar 28 23:48:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



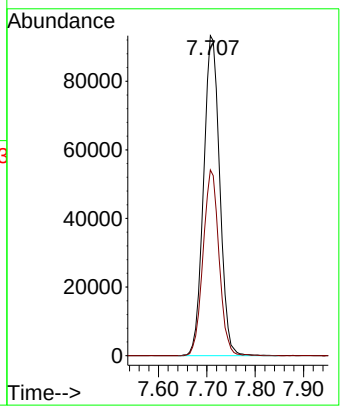


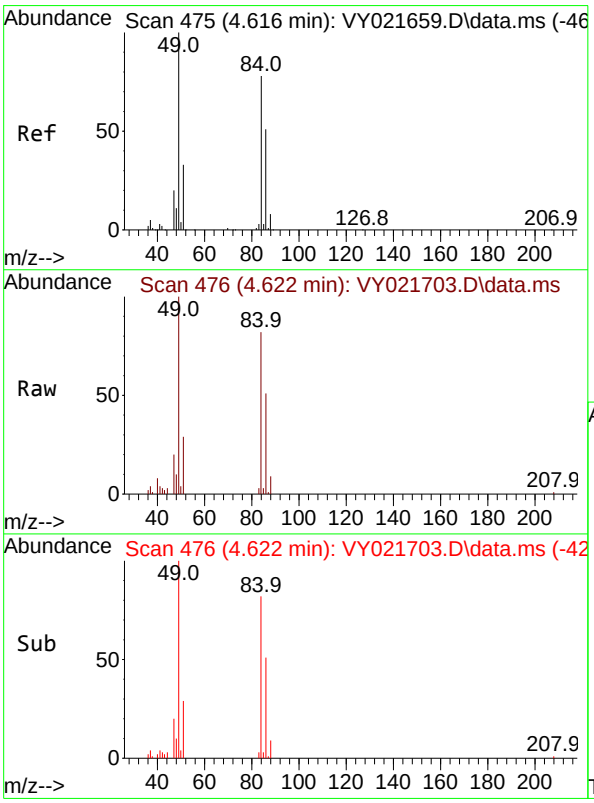
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:168 Resp: 216084

Ion	Ratio	Lower	Upper
168	100		
99	58.0	46.7	70.1

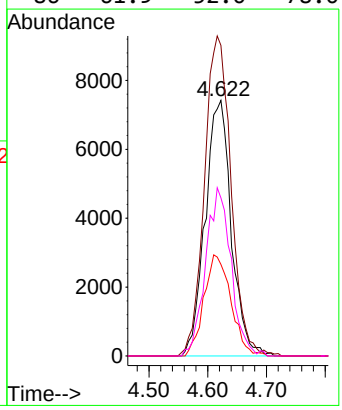


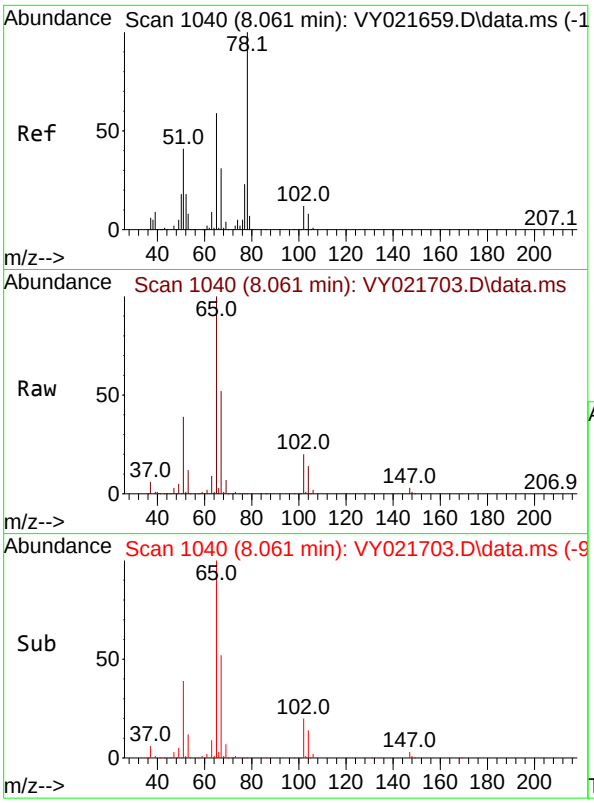


#20
Methylene Chloride
Concen: 6.406 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Tgt Ion: 84 Resp: 22927

Ion	Ratio	Lower	Upper
84	100		
49	121.6	102.8	154.2
51	35.8	33.5	50.3
86	61.9	52.0	78.0



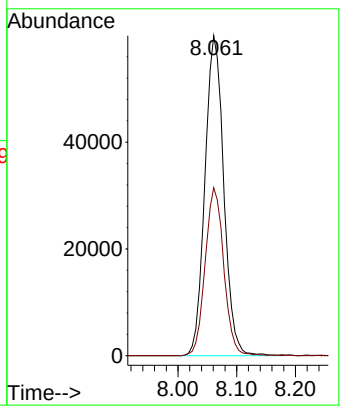


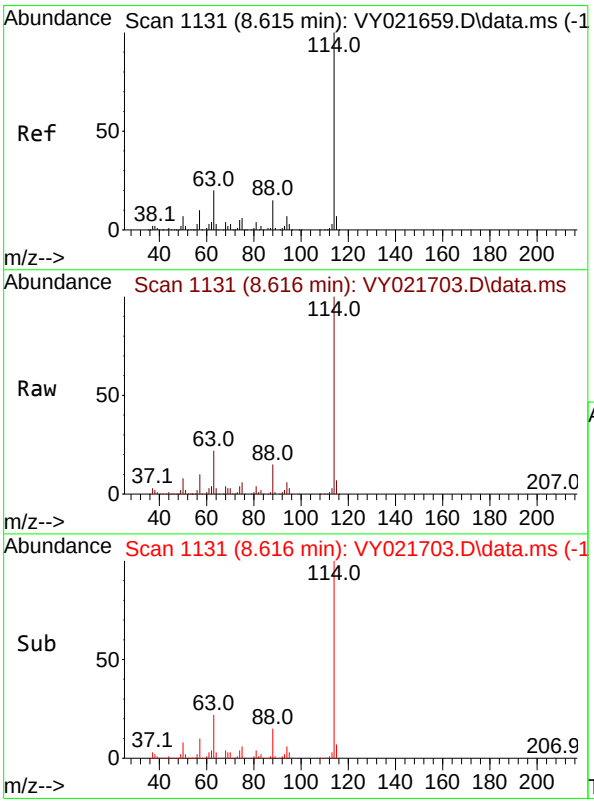
#33
1,2-Dichloroethane-d4
Concen: 56.998 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion: 65 Resp: 133444

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	104.6

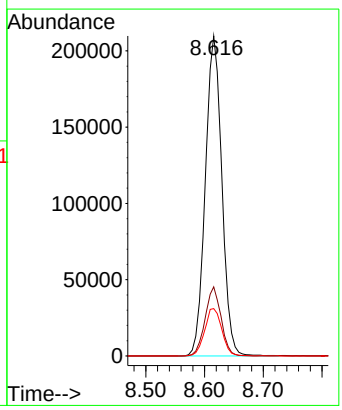


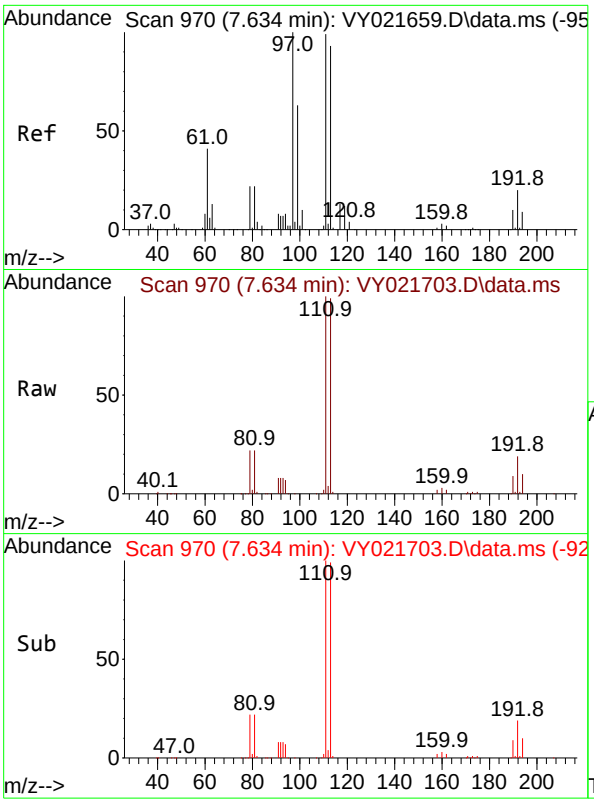


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Tgt Ion:114 Resp: 410241

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	40.2
88	14.8	0.0	29.8



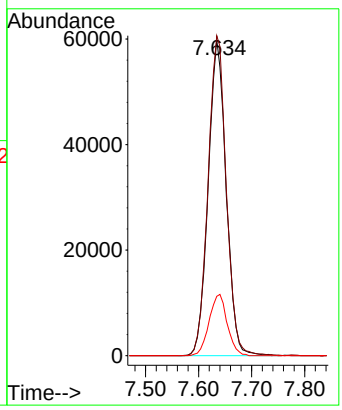


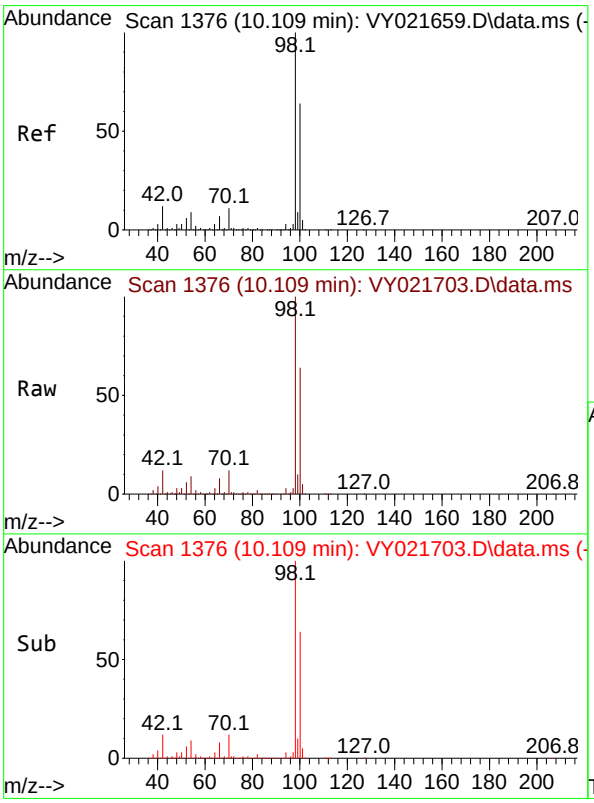
#35
Dibromofluoromethane
Concen: 52.742 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:113 Resp: 140354

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	19.7	16.2	24.4

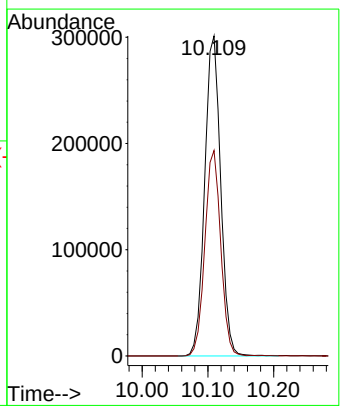


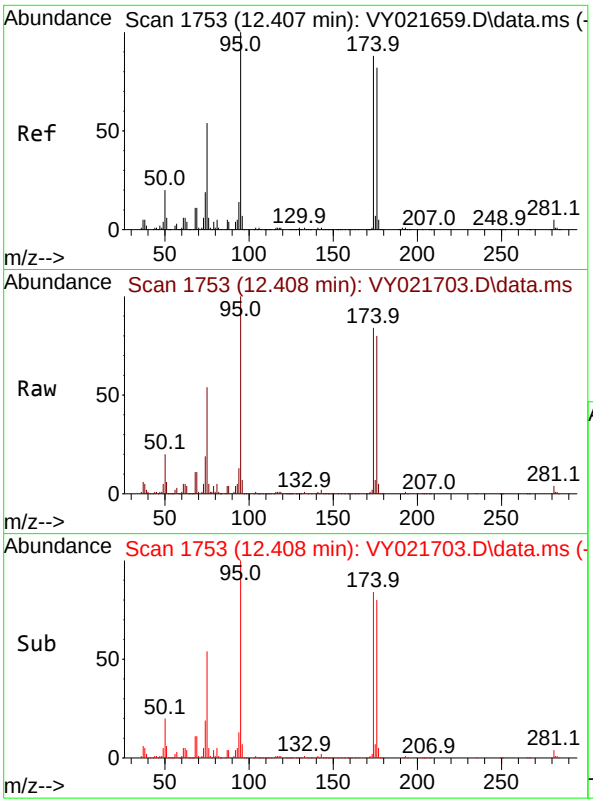


#50
Toluene-d8
Concen: 50.269 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Tgt Ion: 98 Resp: 508912

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.1	78.1



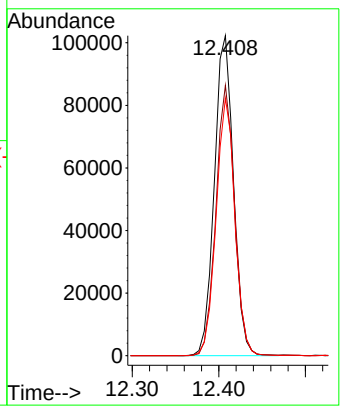


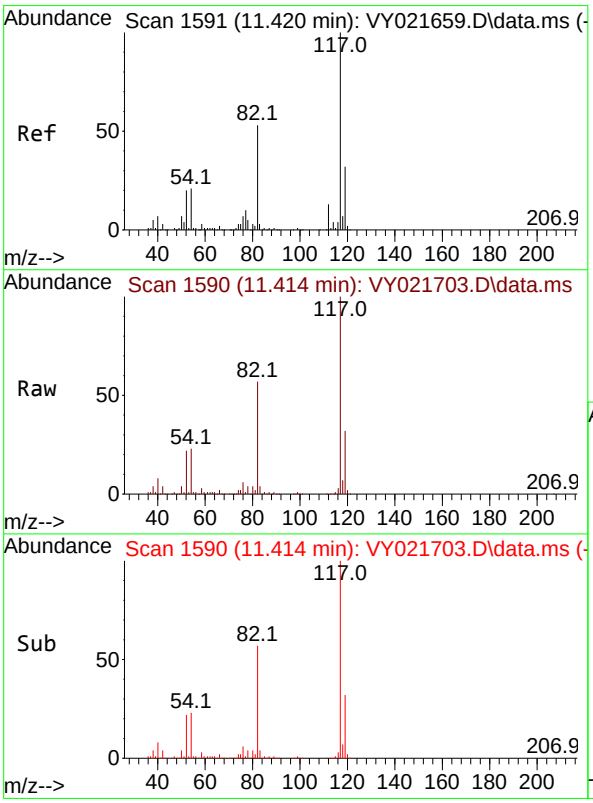
#62
4-Bromofluorobenzene
Concen: 45.729 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion: 95 Resp: 156593

Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	170.8
176	79.2	0.0	162.0

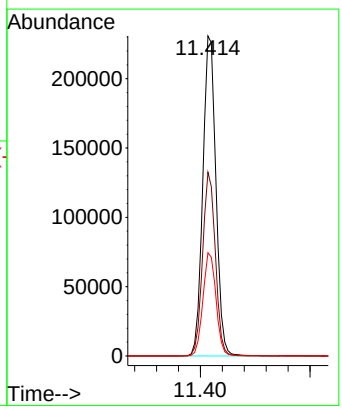


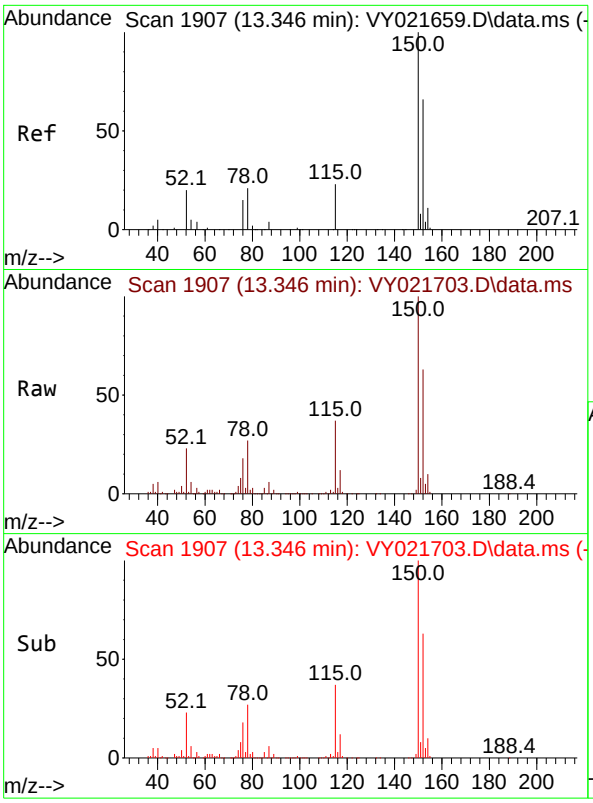


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Tgt Ion:117 Resp: 381513

Ion	Ratio	Lower	Upper
117	100		
82	57.4	42.8	64.2
119	32.3	25.7	38.5



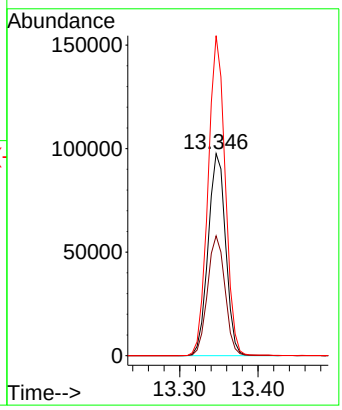


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021703.D
Acq: 28 Mar 2025 19:32

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:152 Resp: 151297

Ion	Ratio	Lower	Upper
152	100		
115	59.1	28.8	86.5
150	155.0	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021703.D
Acq On : 28 Mar 2025 19:32
Operator : SY/MD
Sample : Q1664-17
Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021703.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	462	475	489	rBV2	31093	101907	7.45%	1.419%
2	5.647	633	644	655	rBV2	10057	32024	2.34%	0.446%
3	6.902	839	850	859	rBV2	8532	32909	2.41%	0.458%
4	7.634	961	970	976	rBV2	203041	476251	34.81%	6.630%
5	7.707	976	982	996	rVB	290607	663849	48.52%	9.242%
6	8.061	1027	1040	1055	rBV	172208	396625	28.99%	5.522%
7	8.616	1122	1131	1147	rBV	497087	980561	71.67%	13.651%
8	10.109	1367	1376	1384	rBV	804574	1368170	100.00%	19.048%
9	10.512	1432	1442	1452	rBV2	33193	59504	4.35%	0.828%
10	10.877	1497	1502	1513	rBV2	16631	38407	2.81%	0.535%
11	11.249	1558	1563	1570	rVB3	9942	17280	1.26%	0.241%
12	11.414	1583	1590	1603	rBV	731166	1206067	88.15%	16.791%
13	12.408	1746	1753	1765	rBV	546280	860278	62.88%	11.977%
14	13.346	1898	1907	1915	rBV	615730	949014	69.36%	13.212%

Sum of corrected areas: 7182846

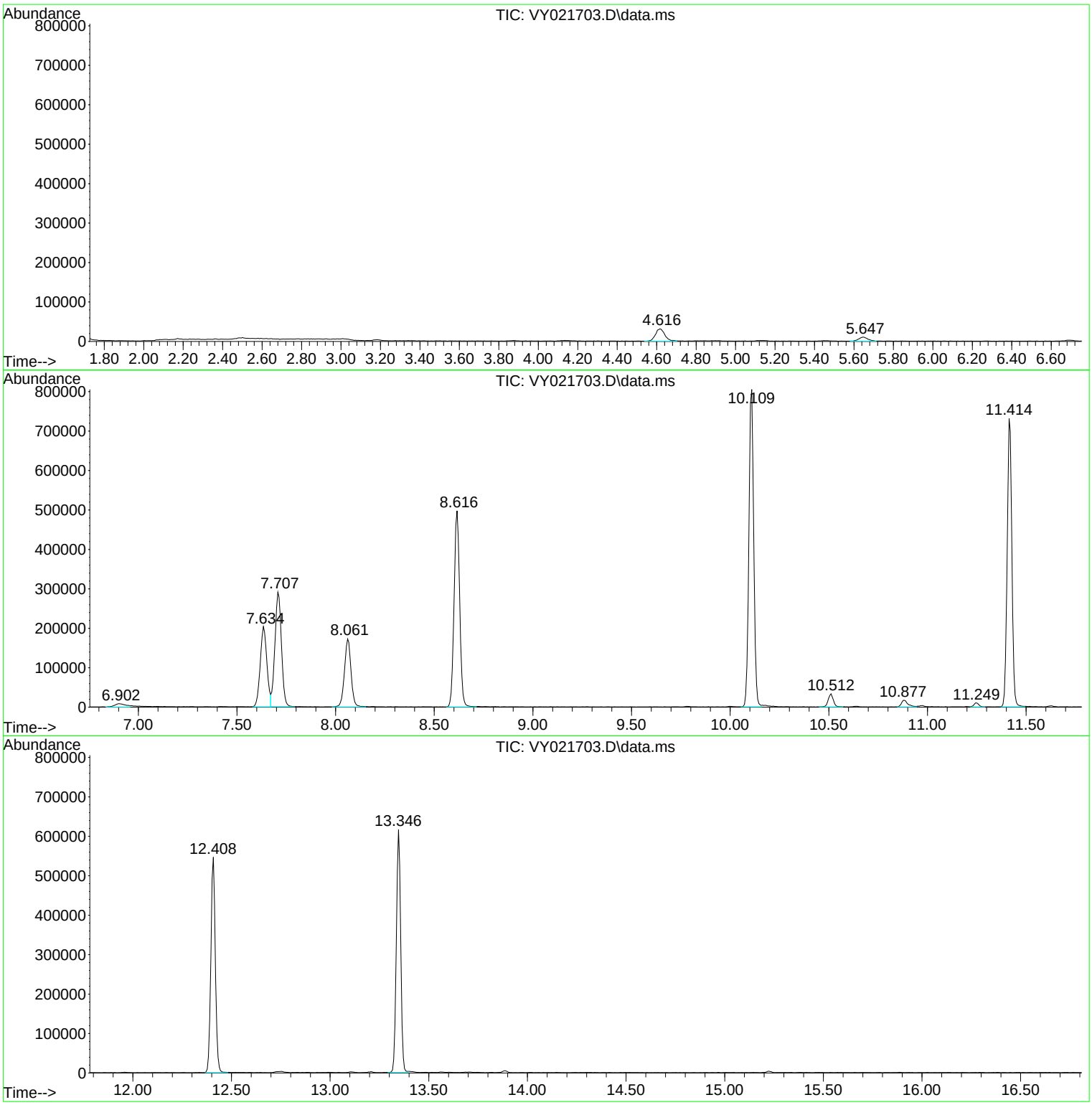
Sample Results: **VY021703.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021703.D
Acq On : 28 Mar 2025 19:32
Operator : SY/MD
Sample : Q1664-17
Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021703.D
Acq On : 28 Mar 2025 19:32
Operator : SY/MD
Sample : Q1664-17
Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021703.D
Acq On : 28 Mar 2025 19:32
Operator : SY/MD
Sample : Q1664-17
Misc : 5.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-006-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-19	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.8
Sample Wt/Vol:	4.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021704.D	1		03/28/25 19:55	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.20	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.20	ug/Kg
75-01-4	Vinyl Chloride	0.98	U	0.98	6.20	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.20	ug/Kg
75-00-3	Chloroethane	1.60	U	1.60	6.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.20	ug/Kg
67-64-1	Acetone	5.90	U	5.90	31.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	6.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.90	U	0.90	6.20	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.20	ug/Kg
75-09-2	Methylene Chloride	9.50	J	4.40	12.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.99	U	0.99	6.20	ug/Kg
110-82-7	Cyclohexane	0.98	U	0.98	6.20	ug/Kg
78-93-3	2-Butanone	8.10	U	8.10	31.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.93	U	0.93	6.20	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.20	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.20	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.20	ug/Kg
71-43-2	Benzene	0.98	U	0.98	6.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.98	U	0.98	6.20	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.20	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.20	ug/Kg
75-27-4	Bromodichloromethane	0.97	U	0.97	6.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	31.0	ug/Kg
108-88-3	Toluene	0.97	U	0.97	6.20	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-19	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.8
Sample Wt/Vol:	4.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021704.D	1		03/28/25 19:55	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.81	U	0.81	6.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.77	6.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.20	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	31.0	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.20	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.20	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.20	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.20	ug/Kg
100-41-4	Ethyl Benzene	0.83	U	0.83	6.20	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.4	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.20	ug/Kg
100-42-5	Styrene	0.88	U	0.88	6.20	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.20	ug/Kg
98-82-8	Isopropylbenzene	0.97	U	0.97	6.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.70	U	3.70	6.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.90	6.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.9		63 - 155	120%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.0		38 - 136	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.713			
540-36-3	1,4-Difluorobenzene	381000	8.616			
3114-55-4	Chlorobenzene-d5	354000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-19	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.8
Sample Wt/Vol:	4.35 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021704.D	1		03/28/25 19:55	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021704.D
Acq On : 28 Mar 2025 19:55
Operator : SY/MD
Sample : Q1664-19
Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Quant Time: Mar 28 23:49:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

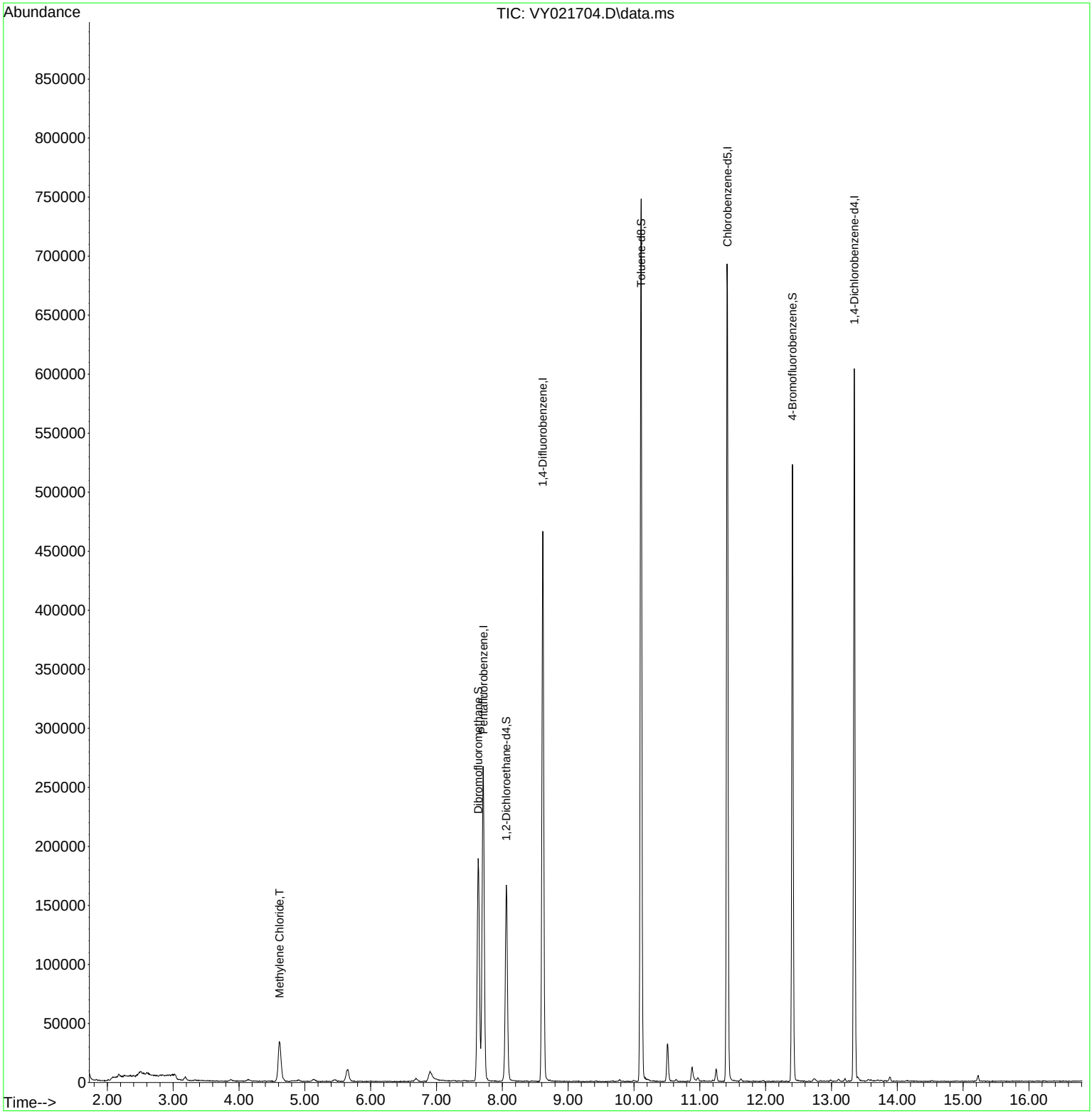
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	201473	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	380843	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	353621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	142833	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	130832	59.935	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.860%			
35) Dibromofluoromethane	7.634	113	132149	53.492	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.980%			
50) Toluene-d8	10.109	98	469358	49.940	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.408	95	146340	46.034	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.060%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	23902	7.658	ug/l	99

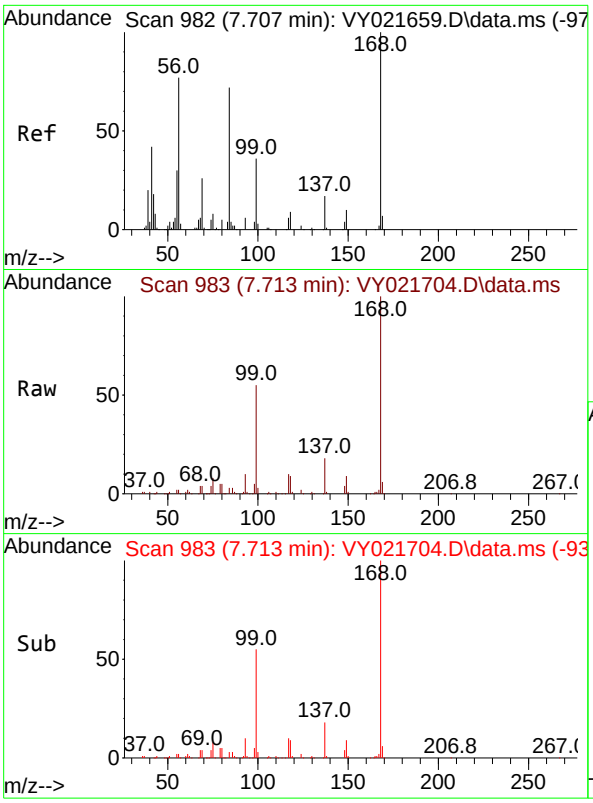
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021704.D
Acq On : 28 Mar 2025 19:55
Operator : SY/MD
Sample : Q1664-19
Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Quant Time: Mar 28 23:49:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



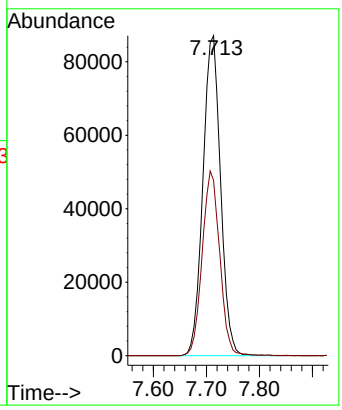


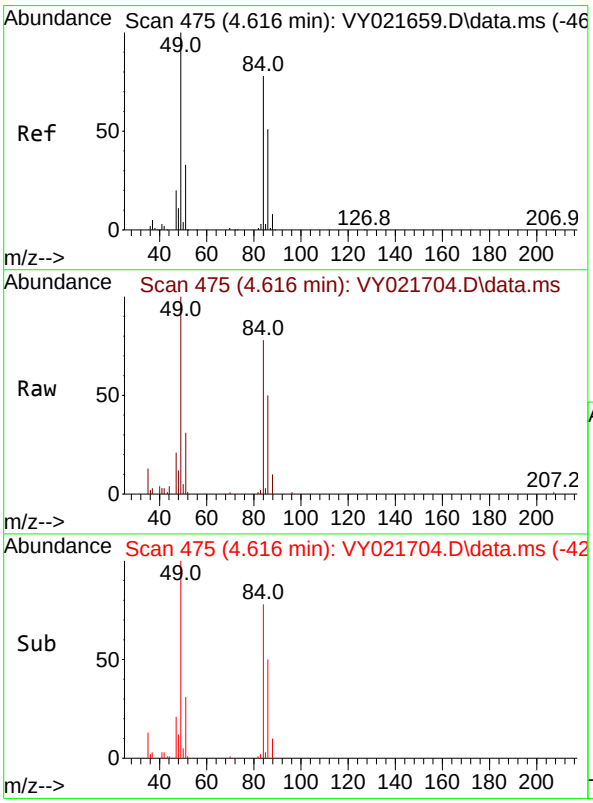
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:168 Resp: 201473

Ion	Ratio	Lower	Upper
168	100		
99	54.8	46.7	70.1

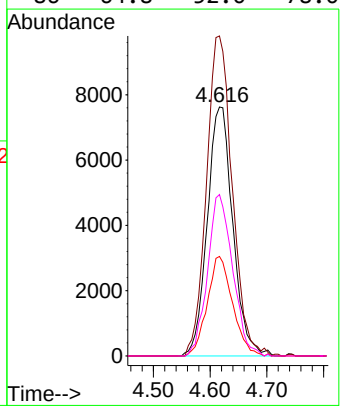


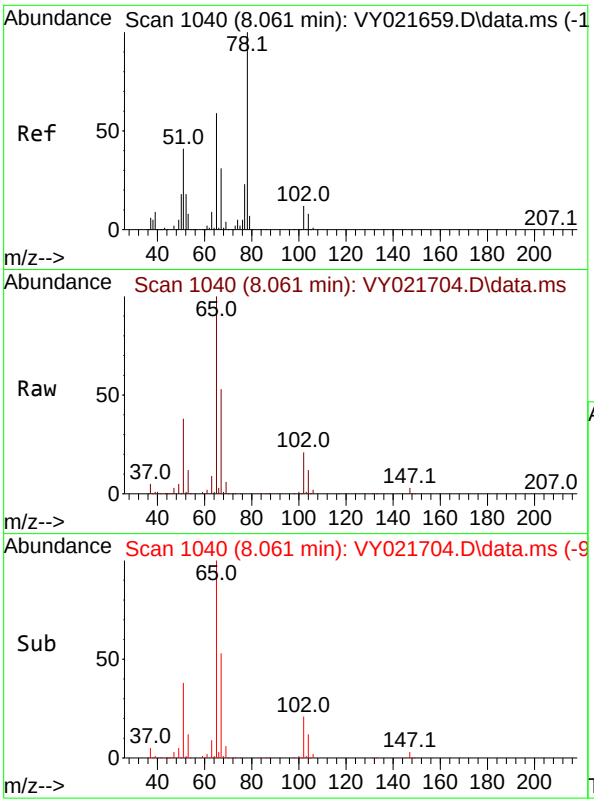


#20
Methylene Chloride
Concen: 7.658 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Tgt Ion: 84 Resp: 23902

Ion	Ratio	Lower	Upper
84	100		
49	128.5	102.8	154.2
51	39.9	33.5	50.3
86	64.8	52.0	78.0



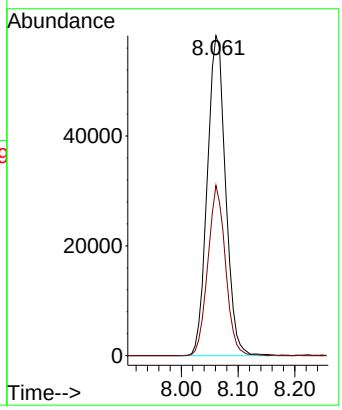


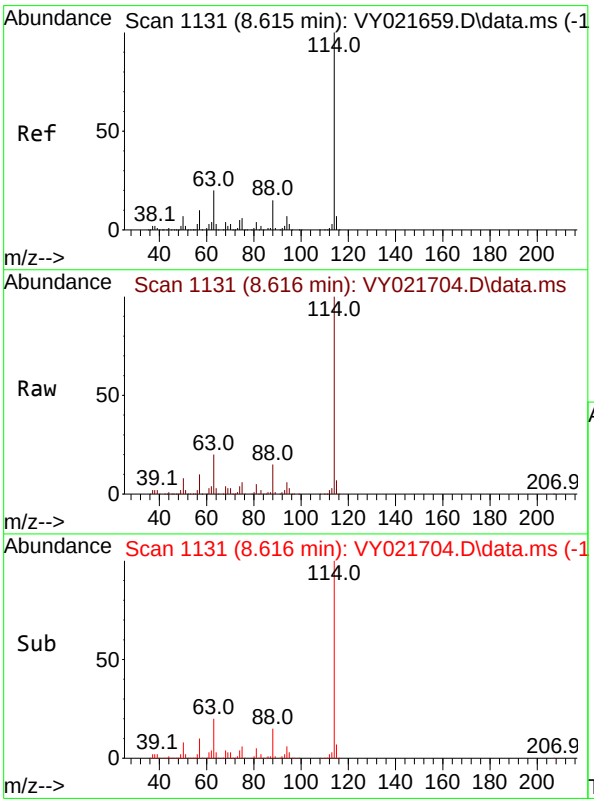
#33
1,2-Dichloroethane-d4
Concen: 59.935 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion: 65 Resp: 130832

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	104.6

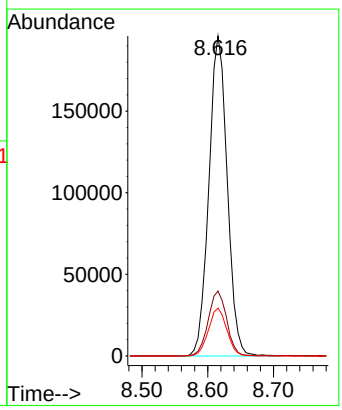


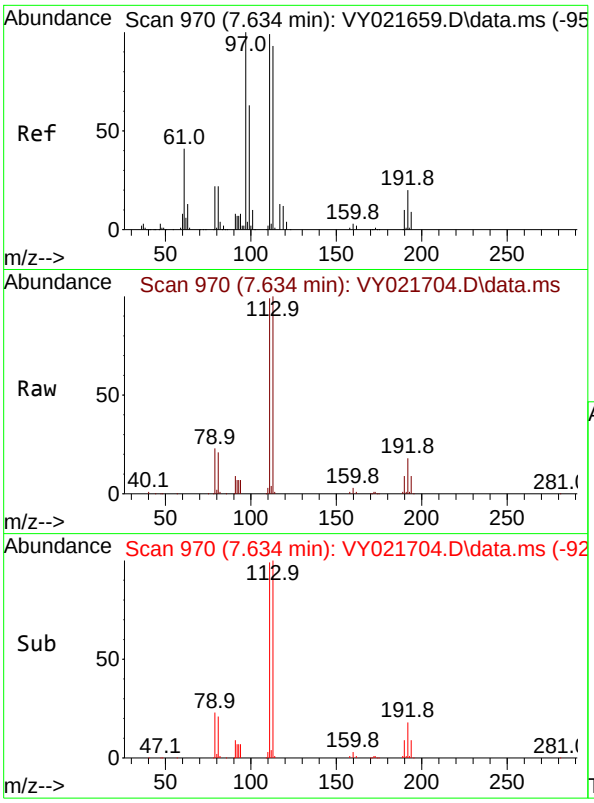


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Tgt Ion:114 Resp: 380843

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.2
88	15.0	0.0	29.8



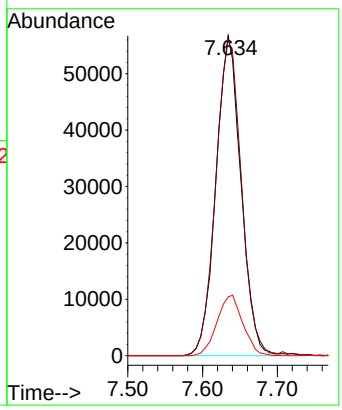


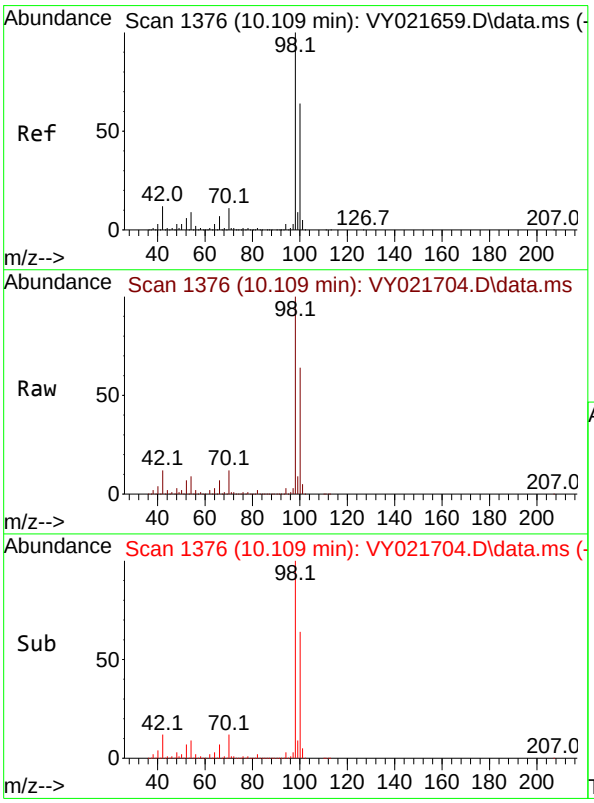
#35
Dibromofluoromethane
Concen: 53.492 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:113 Resp: 132149

Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.6	123.8
192	19.5	16.2	24.4

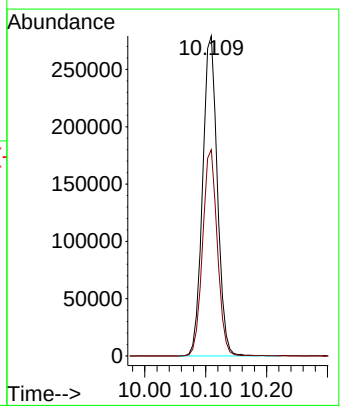


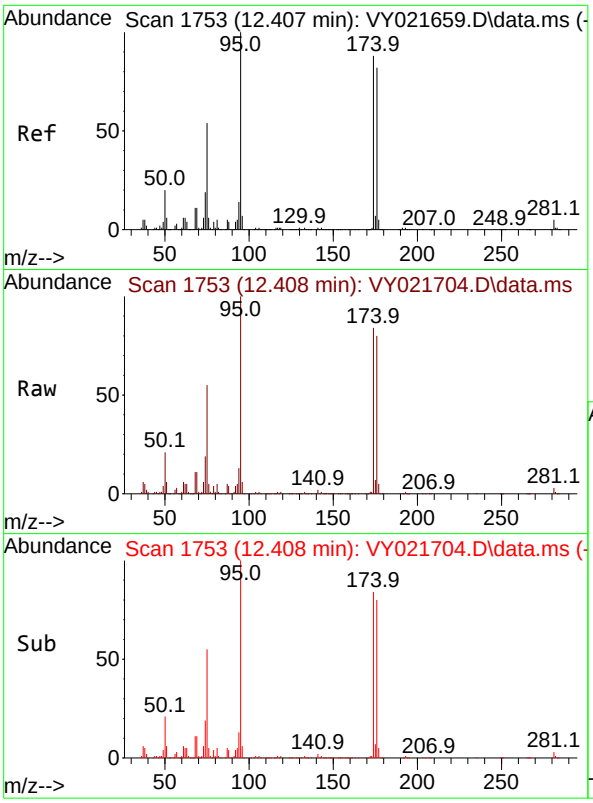


#50
Toluene-d8
Concen: 49.940 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Tgt Ion: 98 Resp: 469358

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.1	78.1



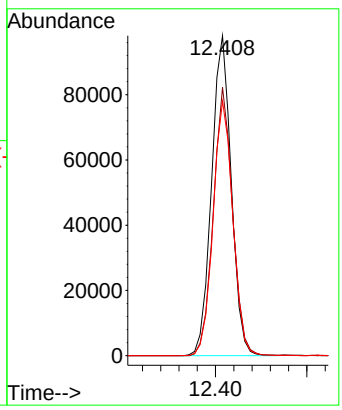


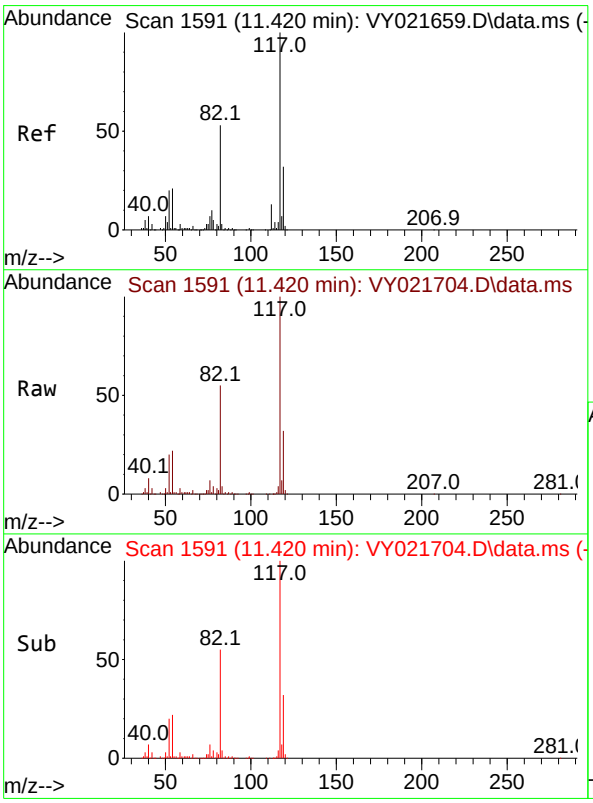
#62
4-Bromofluorobenzene
Concen: 46.034 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion: 95 Resp: 146340

Ion	Ratio	Lower	Upper
95	100		
174	82.4	0.0	170.8
176	80.1	0.0	162.0

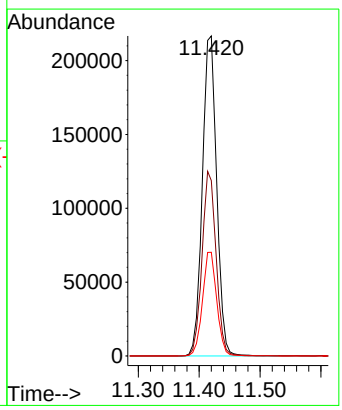


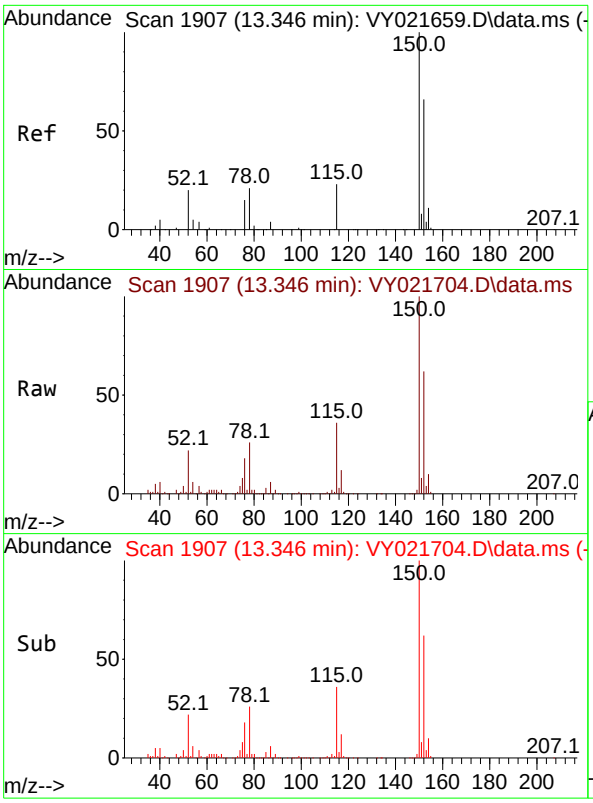


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Tgt Ion:117 Resp: 353621

Ion	Ratio	Lower	Upper
117	100		
82	54.8	42.8	64.2
119	32.4	25.7	38.5



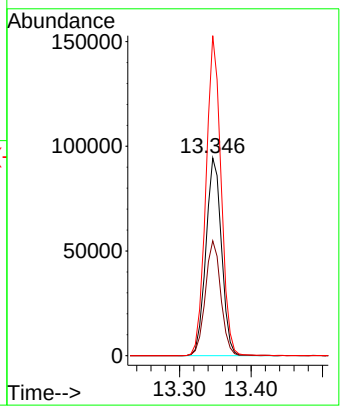


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021704.D
Acq: 28 Mar 2025 19:55

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:152 Resp: 142833

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.8	86.5
150	156.7	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021704.D
Acq On : 28 Mar 2025 19:55
Operator : SY/MD
Sample : Q1664-19
Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021704.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	461	474	490	rBV2	33700	107830	8.53%	1.604%
2	5.653	633	645	656	rBV4	10235	33852	2.68%	0.504%
3	6.902	841	850	864	rBV	8617	36700	2.90%	0.546%
4	7.634	958	970	976	rBV	188681	446962	35.36%	6.649%
5	7.707	976	982	995	rVB	266179	611590	48.38%	9.098%
6	8.061	1026	1040	1051	rBV	166286	384421	30.41%	5.719%
7	8.616	1122	1131	1146	rBV	466075	909027	71.91%	13.523%
8	10.109	1368	1376	1385	rBV	747521	1264169	100.00%	18.806%
9	10.512	1435	1442	1449	rBV	31474	58296	4.61%	0.867%
10	10.883	1497	1503	1513	rBV	12090	27137	2.15%	0.404%
11	11.249	1557	1563	1569	rVB2	10340	17638	1.40%	0.262%
12	11.414	1583	1590	1605	rBV	692488	1126911	89.14%	16.765%
13	12.408	1746	1753	1766	rBV	522343	804745	63.66%	11.972%
14	13.346	1900	1907	1914	rBV	603203	892722	70.62%	13.281%

Sum of corrected areas: 6722000

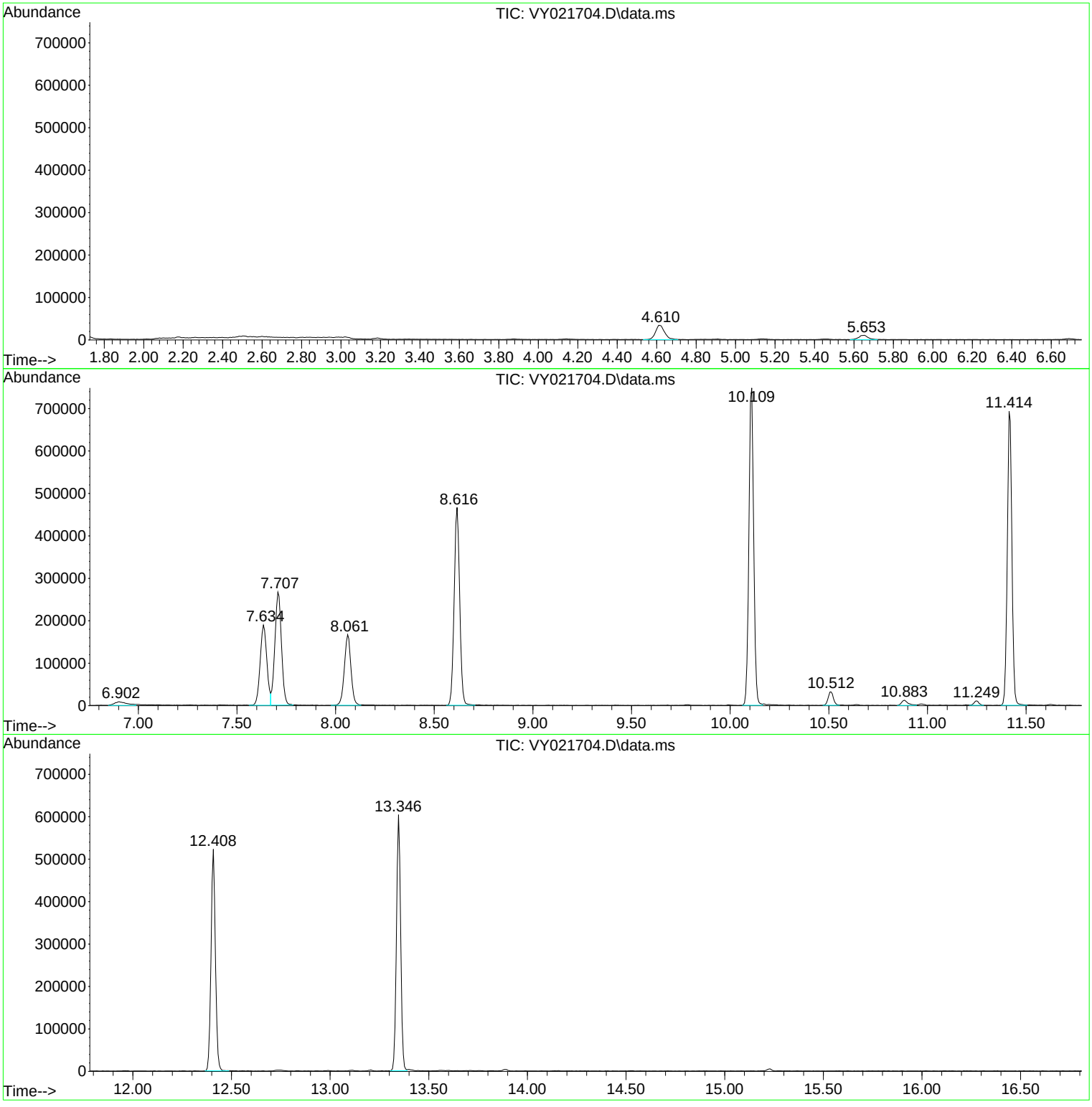
Sample Results: **VY021704.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021704.D
Acq On : 28 Mar 2025 19:55
Operator : SY/MD
Sample : Q1664-19
Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021704.D
Acq On : 28 Mar 2025 19:55
Operator : SY/MD
Sample : Q1664-19
Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021704.D
Acq On : 28 Mar 2025 19:55
Operator : SY/MD
Sample : Q1664-19
Misc : 4.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-007-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-21	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94
Sample Wt/Vol:	5.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021705.D	1		03/28/25 20:19	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.82	U	0.82	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	4.90	U	4.90	25.9	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	7.90	J	3.70	10.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.89	U	0.89	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.20	ug/Kg
78-93-3	2-Butanone	6.80	U	6.80	25.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.87	U	0.87	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.94	U	0.94	5.20	ug/Kg
71-43-2	Benzene	0.82	U	0.82	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.82	U	0.82	5.20	ug/Kg
79-01-6	Trichloroethene	0.84	U	0.84	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.94	U	0.94	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	25.9	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-21	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94
Sample Wt/Vol:	5.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021705.D	1		03/28/25 20:19	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.67	U	0.67	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.64	U	0.64	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.95	U	0.95	5.20	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	25.9	ug/Kg
124-48-1	Dibromochloromethane	0.90	U	0.90	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.91	U	0.91	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.94	U	0.94	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.69	U	0.69	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.3	ug/Kg
95-47-6	o-Xylene	0.85	U	0.85	5.20	ug/Kg
100-42-5	Styrene	0.73	U	0.73	5.20	ug/Kg
75-25-2	Bromoform	0.89	U	0.89	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.81	U	0.81	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.4		63 - 155	113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	50.1		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		38 - 136	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	213000	7.713			
540-36-3	1,4-Difluorobenzene	414000	8.616			
3114-55-4	Chlorobenzene-d5	381000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-21	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94
Sample Wt/Vol:	5.14 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021705.D	1		03/28/25 20:19	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021705.D
Acq On : 28 Mar 2025 20:19
Operator : SY/MD
Sample : Q1664-21
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Quant Time: Mar 28 23:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

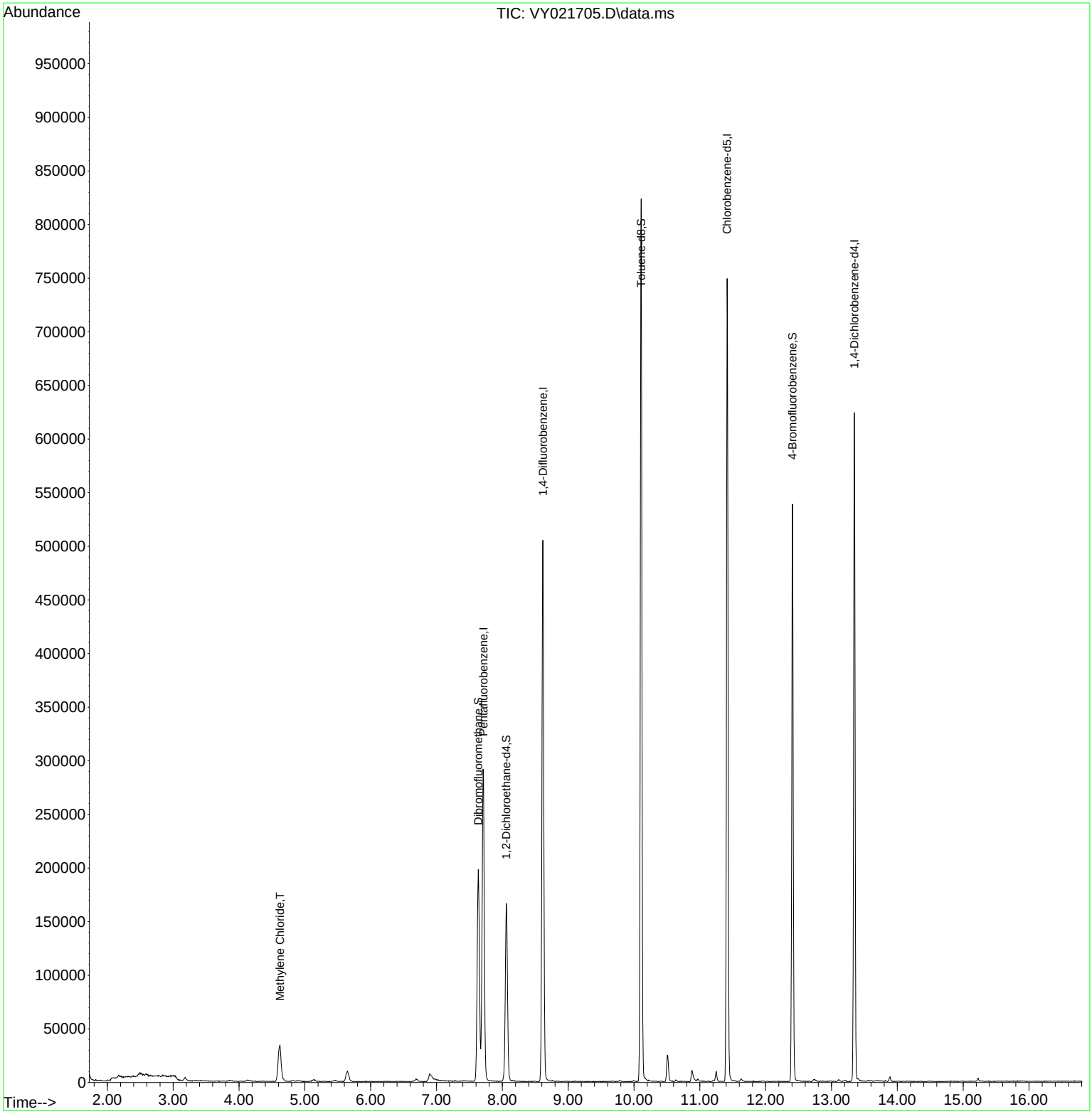
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	212653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	414302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	380711	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	149200	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	129845	56.356	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.720%			
35) Dibromofluoromethane	7.634	113	138793	51.644	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.280%			
50) Toluene-d8	10.109	98	512383	50.115	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.240%			
62) 4-Bromofluorobenzene	12.408	95	156217	45.172	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.340%			
Target Compounds						Qvalue
20) Methylene Chloride	4.622	84	25093	7.595	ug/l	92

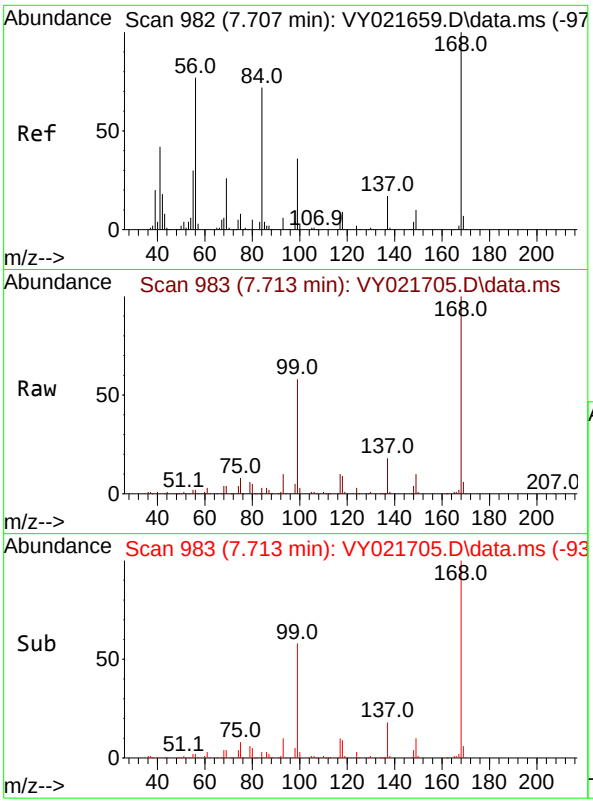
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021705.D
Acq On : 28 Mar 2025 20:19
Operator : SY/MD
Sample : Q1664-21
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Quant Time: Mar 28 23:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



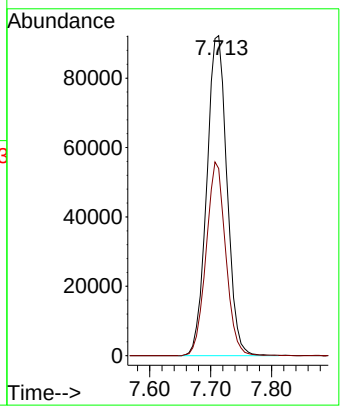


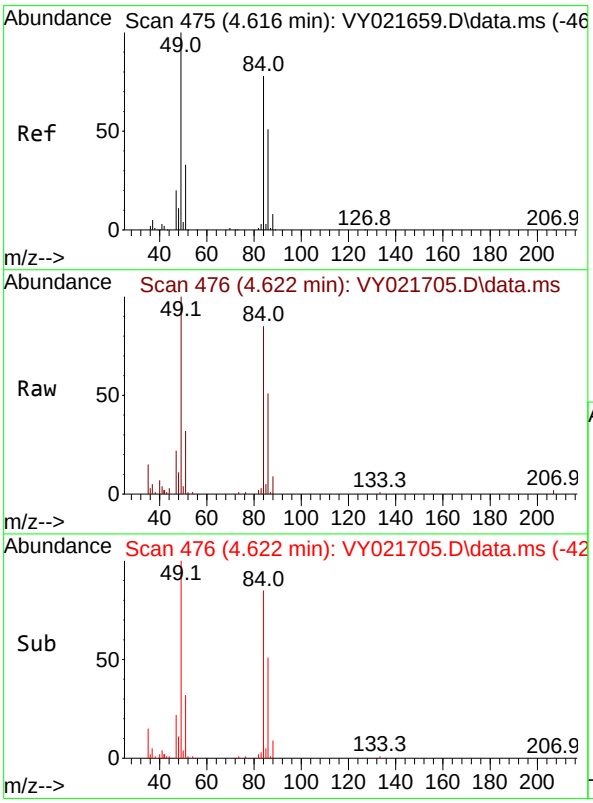
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:168 Resp: 212653

Ion	Ratio	Lower	Upper
168	100		
99	58.5	46.7	70.1

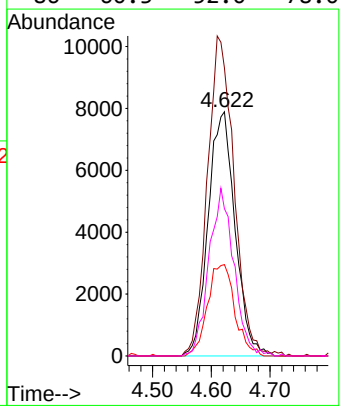


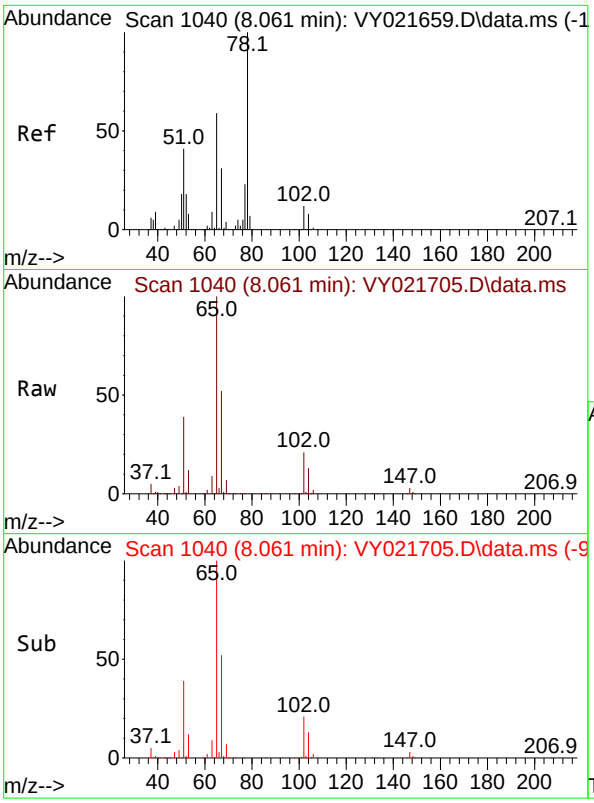


#20
Methylene Chloride
Concen: 7.595 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Tgt Ion: 84 Resp: 25093

Ion	Ratio	Lower	Upper
84	100		
49	117.9	102.8	154.2
51	37.4	33.5	50.3
86	60.3	52.0	78.0



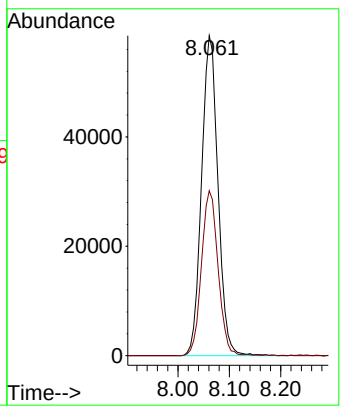


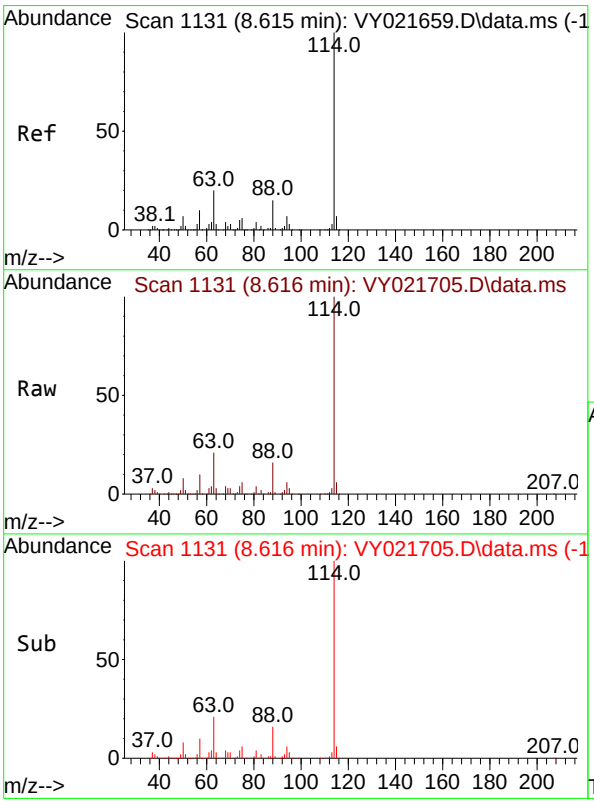
#33
1,2-Dichloroethane-d4
Concen: 56.356 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion: 65 Resp: 129845

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.6

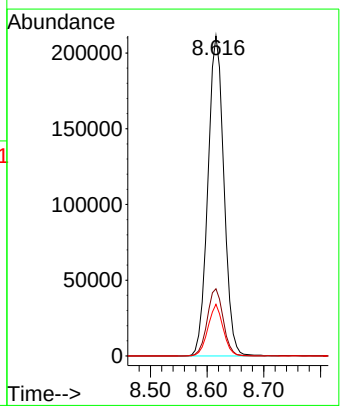


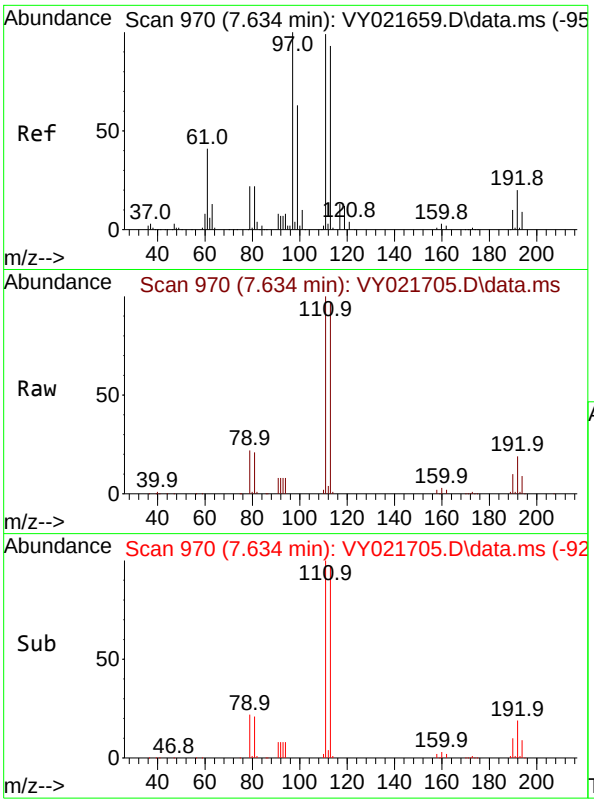


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Tgt Ion:114 Resp: 414302

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.2
88	16.1	0.0	29.8



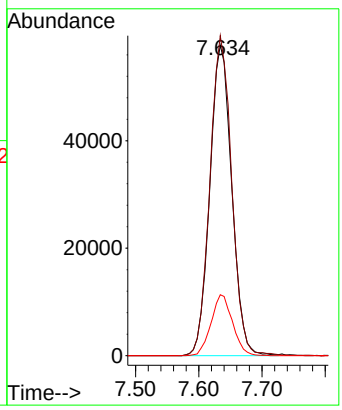


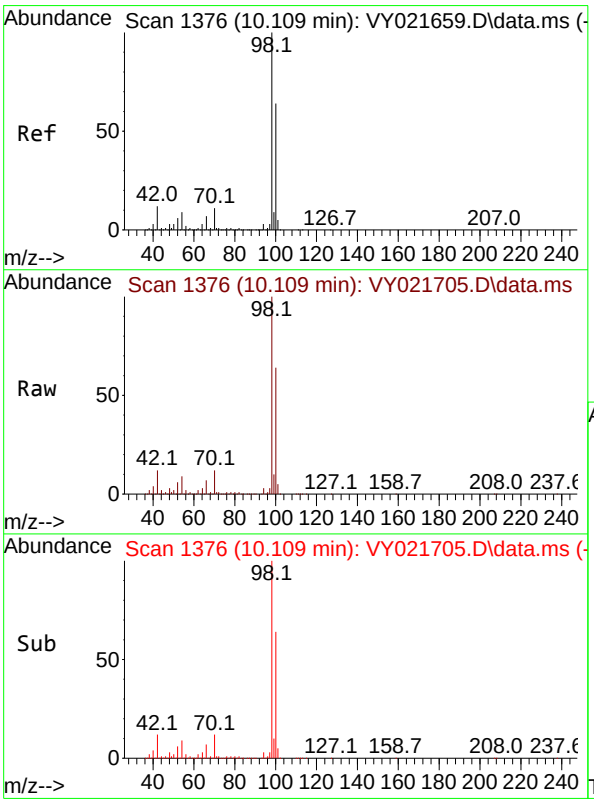
#35
Dibromofluoromethane
Concen: 51.644 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:113 Resp: 138793

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	19.3	16.2	24.4

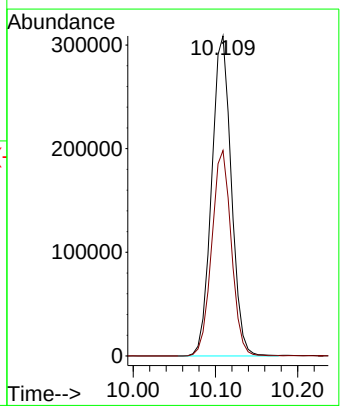


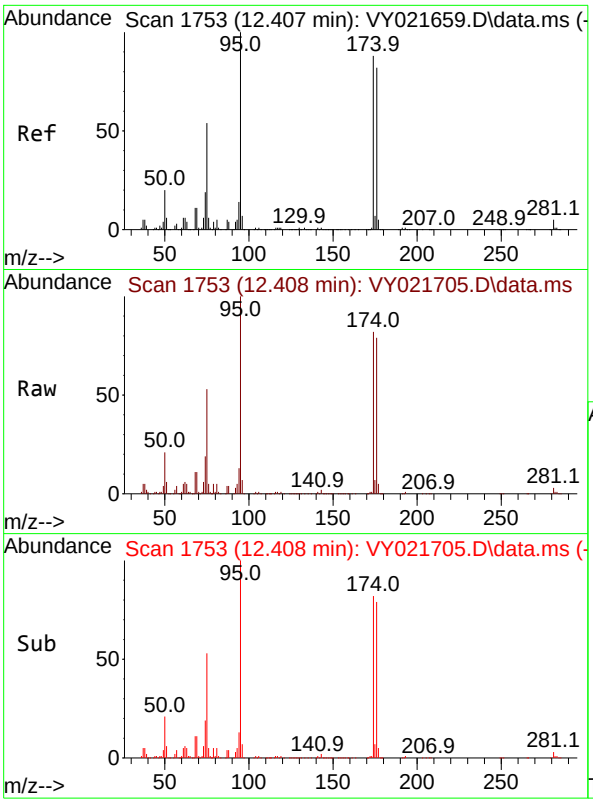


#50
Toluene-d8
Concen: 50.115 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Tgt Ion: 98 Resp: 512383

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.1	78.1



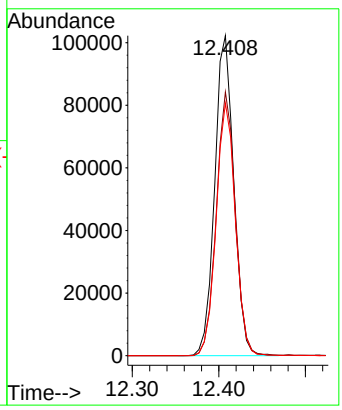


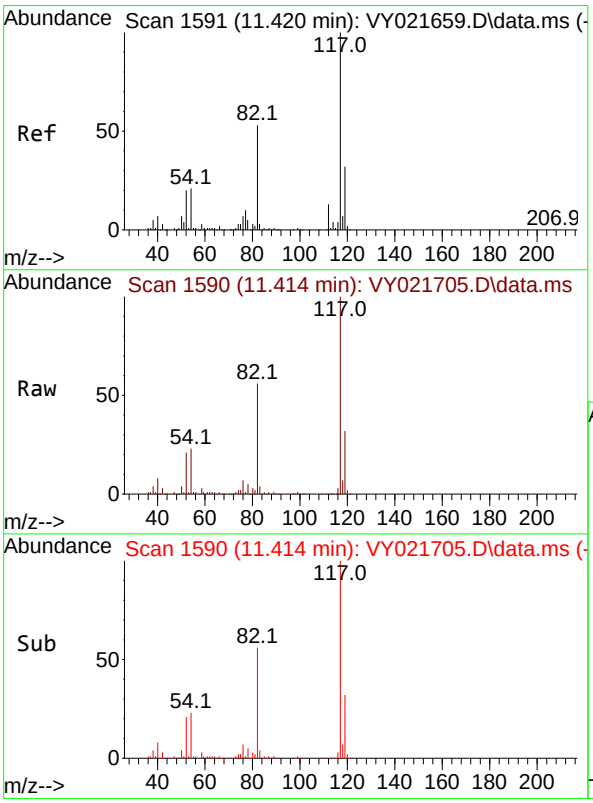
#62
4-Bromofluorobenzene
Concen: 45.172 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion: 95 Resp: 156217

Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	170.8
176	79.4	0.0	162.0

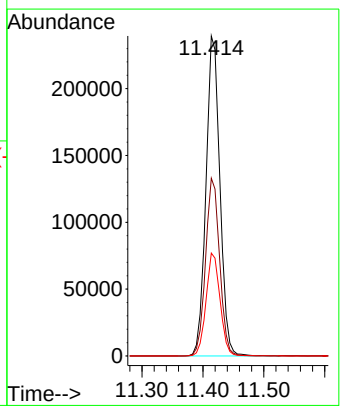


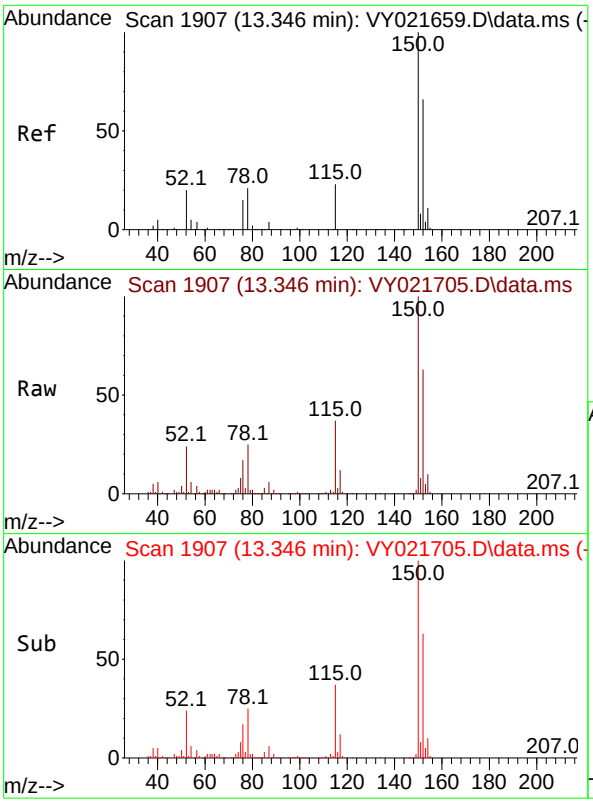


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Tgt Ion:117 Resp: 380711

Ion	Ratio	Lower	Upper
117	100		
82	55.5	42.8	64.2
119	32.2	25.7	38.5



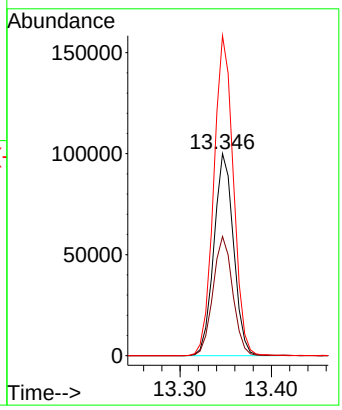


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021705.D
Acq: 28 Mar 2025 20:19

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:152 Resp: 149200

Ion	Ratio	Lower	Upper
152	100		
115	59.4	28.8	86.5
150	158.3	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021705.D
Acq On : 28 Mar 2025 20:19
Operator : SY/MD
Sample : Q1664-21
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021705.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	464	476	491	rBV2	33862	111773	8.07%	1.561%
2	5.647	635	644	653	rBV3	9717	30371	2.19%	0.424%
3	6.896	841	849	863	rBV2	7248	30070	2.17%	0.420%
4	7.634	957	970	976	rBV	197719	471025	34.00%	6.577%
5	7.707	976	982	997	rVB	290893	662357	47.81%	9.249%
6	8.061	1028	1040	1054	rBV	165990	385852	27.85%	5.388%
7	8.616	1120	1131	1152	rBV	504871	995430	71.85%	13.900%
8	10.109	1368	1376	1393	rBV	823069	1385519	100.00%	19.347%
9	10.505	1433	1441	1451	rBV	24531	48262	3.48%	0.674%
10	10.883	1495	1503	1513	rBV2	10490	24717	1.78%	0.345%
11	11.249	1557	1563	1570	rVB	9222	15546	1.12%	0.217%
12	11.414	1583	1590	1603	rBV	748727	1207663	87.16%	16.863%
13	12.408	1746	1753	1763	rBV	538372	850128	61.36%	11.871%
14	13.346	1897	1907	1916	rBV	623984	942879	68.05%	13.166%

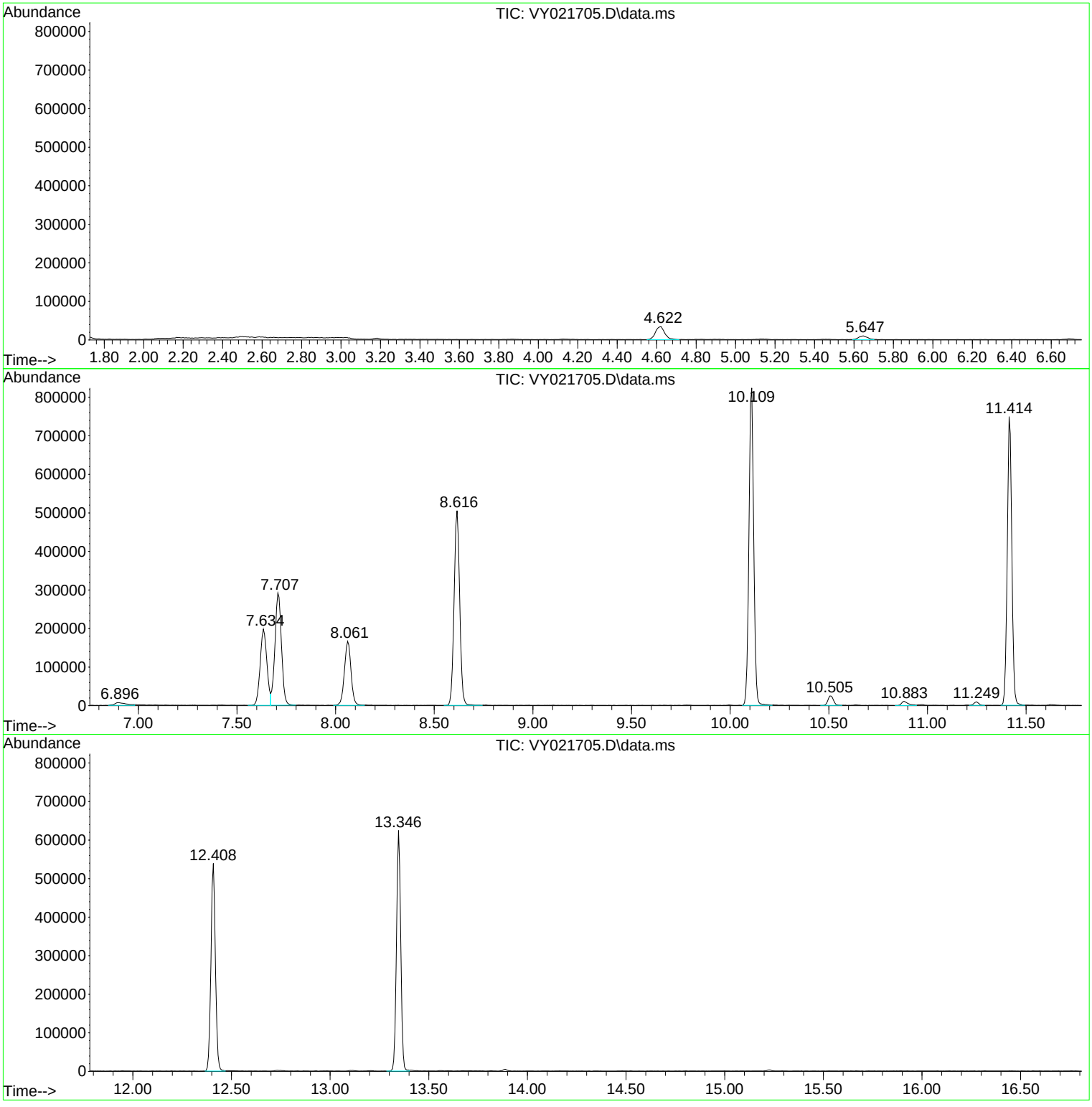
Sum of corrected areas: 7161592

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021705.D
Acq On : 28 Mar 2025 20:19
Operator : SY/MD
Sample : Q1664-21
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021705.D
Acq On : 28 Mar 2025 20:19
Operator : SY/MD
Sample : Q1664-21
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY032825\
Data File : VY021705.D
Acq On : 28 Mar 2025 20:19
Operator : SY/MD
Sample : Q1664-21
Misc : 5.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-008-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

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

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

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

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.4
Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.6
Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.5
Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.9
Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.5
Trichlorofluoromethane	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.5
1,1,2-Trichlorotrifluoroethane	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.4
1,1-Dichloroethene	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.2
Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.3
Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.4
Methyl tert-butyl Ether	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.9
Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	11
Methylene Chloride	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.8
trans-1,2-Dichloroethene	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.3
1,1-Dichloroethane	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.3
Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.1
2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.9
Carbon Tetrachloride	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.9
cis-1,2-Dichloroethene	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.3
Bromochloromethane	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.3
Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.9
1,1,1-Trichloroethane	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.3
Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.5
Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.6
1,2-Dichloroethane	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.1
Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.4
1,2-Dichloropropane	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.2
Bromodichloromethane	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6
4-Methyl-2-Pentanone	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.9
Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	3

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

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

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

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

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.5
cis-1,3-Dichloropropene	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.6
1,1,2-Trichloroethane	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.9
2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.2
Dibromochloromethane	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.1
1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.3
Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.3
Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.3
Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.9
m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.2
o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.4
Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.8
Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.4
Isopropylbenzene	3.628	3.701	3.582	3.826	3.843	3.702	3.714	2.8
1,1,2,2-Tetrachloroethane	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.1
1,3-Dichlorobenzene	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.2
1,4-Dichlorobenzene	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.2
1,2-Dichlorobenzene	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.9
1,2-Dibromo-3-Chloropropane	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.6
1,2,4-Trichlorobenzene	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.6
1,2,3-Trichlorobenzene	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.1
1,2-Dichloroethane-d4	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.5
Dibromofluoromethane	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7
Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.1
4-Bromofluorobenzene	0.447	0.410	0.378	0.439	0.424	0.407	0.417	6

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y032725S.M
Title : SW846 8260
Last Update : Fri Mar 28 02:30:29 2025
Response Via : Initial Calibration

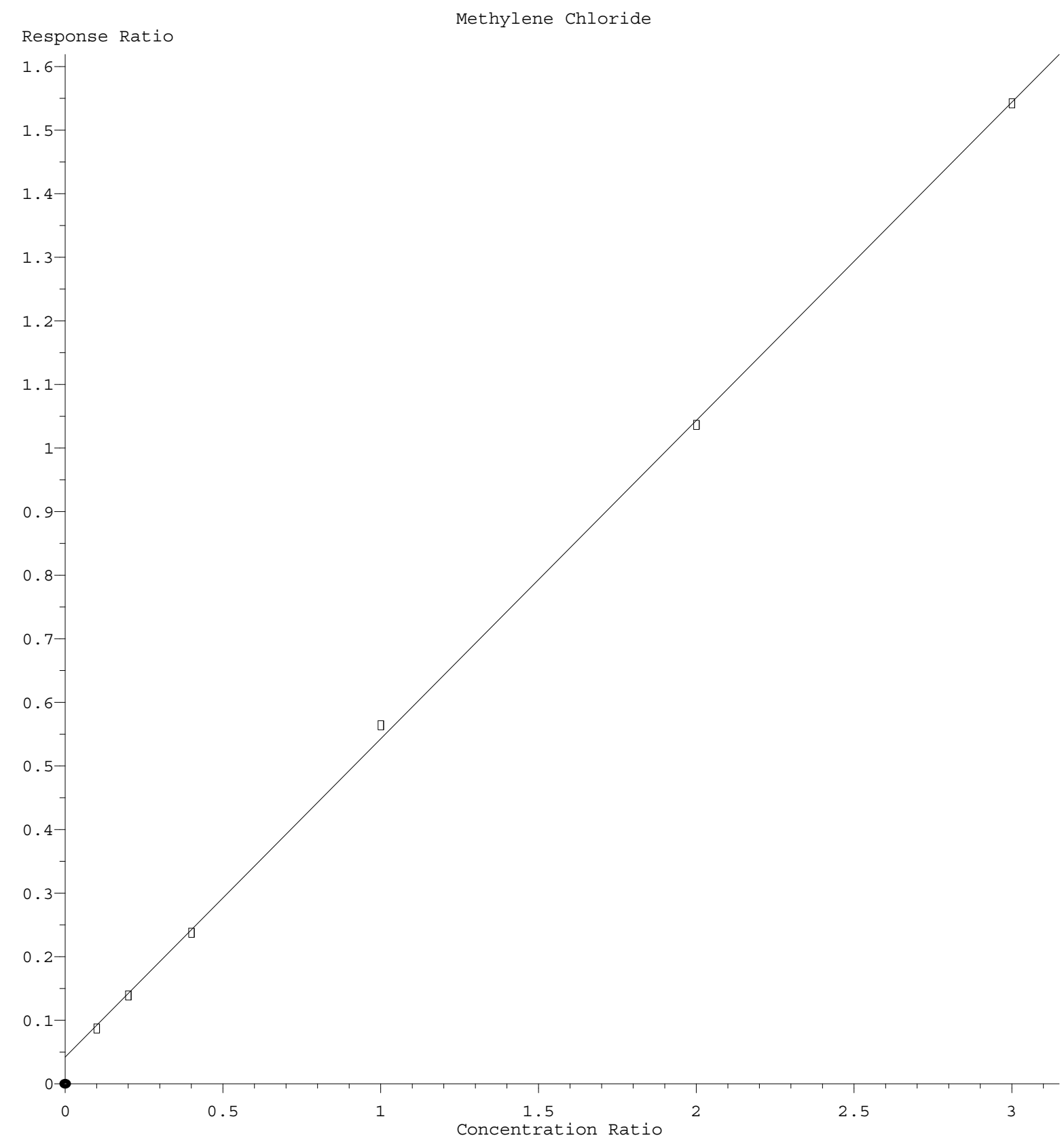
Calibration Files
5 =VY021656.D 10 =VY021657.D 20 =VY021658.D 50 =VY021659.D 100 =VY021660.D 150 =VY021661.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.38
3)	P	Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.61
4)	C	Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.48#
5)	T	Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.90
6)	T	Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.46
7)	T	Trichlorofluor...	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.48
8)	T	Diethyl Ether	0.332	0.309	0.284	0.275	0.256	0.266	0.287	9.95
9)	T	1,1,2-Trichlor...	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.39
10)	T	Methyl Iodide	0.567	0.581	0.610	0.655	0.631	0.620	0.611	5.34
11)	T	Tert butyl alc...	0.043	0.038	0.034	0.034	0.029	0.032	0.035	13.48
12)	CM	1,1-Dichloroet...	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.17#
13)	T	Acrolein	0.069	0.070	0.064	0.063	0.059	0.061	0.064	7.03
14)	T	Allyl chloride	0.897	0.866	0.803	0.837	0.814	0.801	0.836	4.60
15)	T	Acrylonitrile	0.132	0.128	0.116	0.121	0.109	0.113	0.120	7.45
16)	T	Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.31
17)	T	Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.40
18)	T	Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	10.97
19)	T	Methyl tert-bu...	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.90
20)	T	Methylene Chlo...	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.82
21)	T	trans-1,2-Dich...	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.32
22)	T	Diisopropyl ether	1.795	1.771	1.732	1.800	1.725	1.701	1.754	2.32
23)	T	Vinyl Acetate	1.026	1.036	1.000	1.066	1.004	1.025	1.026	2.33
24)	P	1,1-Dichloroet...	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.26
25)	T	2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.91
26)	T	2,2-Dichloropr...	1.063	0.962	0.896	0.920	0.886	0.870	0.933	7.63
27)	T	cis-1,2-Dichlo...	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.34
28)	T	Bromochloromet...	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.32
29)	T	Tetrahydrofuran	0.108	0.111	0.096	0.105	0.093	0.097	0.102	7.06
30)	C	Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.85#
31)	T	Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.12
32)	T	1,1,1-Trichlor...	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.31
33)	S	1,2-Dichloroet...	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.53
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7.00
36)	T	1,1-Dichloropr...	0.532	0.509	0.487	0.502	0.484	0.450	0.494	5.59
37)	T	Ethyl Acetate	0.270	0.256	0.217	0.236	0.211	0.210	0.233	10.82
38)	T	Carbon Tetrach...	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.89
39)	T	Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.50
40)	TM	Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.58
41)	T	Methacrylonitrile	0.134	0.132	0.111	0.137	0.114	0.116	0.124	9.32
42)	TM	1,2-Dichloroet...	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.15
43)	T	Isopropyl Acetate	0.471	0.474	0.408	0.451	0.420	0.426	0.442	6.29
44)	TM	Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.37
45)	C	1,2-Dichloropr...	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.15#
46)	T	Dibromomethane	0.225	0.220	0.192	0.198	0.191	0.185	0.202	8.23
47)	T	Bromodichlorom...	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6.02
48)	T	Methyl methacr...	0.212	0.205	0.179	0.210	0.206	0.203	0.203	5.87
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	3.07
50)	S	Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.12
51)	T	4-Methyl-2-Pen...	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.93
52)	CM	Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	3.01#
53)	T	t-1,3-Dichloro...	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.47
54)	T	cis-1,3-Dichlo...	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.62
55)	T	1,1,2-Trichlor...	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.92
56)	T	Ethyl methacry...	0.287	0.309	0.314	0.366	0.356	0.359	0.332	9.82

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y032725S.M

57)	T	1,3-Dichloropr...	0.472	0.470	0.440	0.460	0.432	0.419	0.449	4.84
58)	T	2-Chloroethyl ...	0.142	0.153	0.151	0.180	0.173	0.172	0.162	9.22
59)	T	2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.25
60)	T	Dibromochlorom...	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.10
61)	T	1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.32
62)	S	4-Bromofluorob...	0.447	0.410	0.378	0.439	0.424	0.407	0.417	5.97
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.28
65)	PM	Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.26
66)	T	1,1,1,2-Tetrac...	0.448	0.409	0.390	0.412	0.400	0.382	0.407	5.67
67)	C	Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.93#
68)	T	m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.21
69)	T	o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.40
70)	T	Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.82
71)	P	Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.44
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.628	3.701	3.582	3.825	3.843	3.702	3.714	2.80
74)	T	N-amyl acetate	0.812	0.864	0.800	0.917	0.898	0.938	0.872	6.47
75)	P	1,1,2,2-Tetrac...	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.14
76)	T	1,2,3-Trichlor...	0.506	0.560	0.487	0.498	0.453	0.470	0.496	7.46
77)	T	Bromobenzene	0.946	0.909	0.852	0.889	0.886	0.867	0.892	3.71
78)	T	n-propylbenzene	4.347	4.457	4.349	4.617	4.612	4.408	4.465	2.75
79)	T	2-Chlorotoluene	2.616	2.634	2.535	2.645	2.603	2.526	2.593	1.96
80)	T	1,3,5-Trimethy...	2.917	3.001	2.982	3.147	3.141	3.023	3.035	3.01
81)	T	trans-1,4-Dich...	0.208	0.227	0.199	0.222	0.212	0.224	0.215	5.06
82)	T	4-Chlorotoluene	2.768	2.746	2.649	2.757	2.695	2.606	2.704	2.42
83)	T	tert-Butylbenzene	2.596	2.674	2.617	2.787	2.832	2.715	2.703	3.46
84)	T	1,2,4-Trimethy...	2.783	2.965	2.960	3.135	3.116	3.040	3.000	4.30
85)	T	sec-Butylbenzene	3.838	3.999	3.860	4.095	4.054	3.858	3.951	2.85
86)	T	p-Isopropyltol...	3.001	3.194	3.195	3.430	3.445	3.328	3.265	5.19
87)	T	1,3-Dichlorobe...	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.21
88)	T	1,4-Dichlorobe...	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.16
89)	T	n-Butylbenzene	2.890	2.933	2.932	3.173	3.166	3.025	3.020	4.11
90)	T	Hexachloroethane	0.798	0.720	0.677	0.707	0.709	0.683	0.716	6.06
91)	T	1,2-Dichlorobe...	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.91
92)	T	1,2-Dibromo-3-...	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.58
93)	T	1,2,4-Trichlor...	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.65
94)	T	Hexachlorobuta...	0.568	0.521	0.490	0.525	0.512	0.492	0.518	5.51
95)	T	Naphthalene	1.153	1.208	1.258	1.508	1.505	1.616	1.375	13.94
96)	T	1,2,3-Trichlor...	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.06

(#) = Out of Range



Response = 5.006e-001 * Amt + 4.197e-002
Coef of Det (r^2) = 0.999666 Curve Fit: Linear
Method: C:\Chemstation\1\data\rv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Calibration Table Last Updated: Fri Mar 28 02:30:29 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021656.D
Acq On : 27 Mar 2025 10:08
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 :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:13:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	217101	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	350486	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	301382	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	145682	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	13289	5.650	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 11.300%#				
35) Dibromofluoromethane	7.634	113	12519	5.506	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 11.020%#				
50) Toluene-d8	10.109	98	44774	5.177	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 10.360%#				
62) 4-Bromofluorobenzene	12.408	95	15657	5.352	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 10.700%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	13065	5.806	ug/l		98
3) Chloromethane	2.074	50	19017	6.010	ug/l		90
4) Vinyl Chloride	2.202	62	21214	5.928	ug/l		93
5) Bromomethane	2.598	94	15395	6.308	ug/l		99
6) Chloroethane	2.733	64	13977	5.969	ug/l		99
7) Trichlorofluoromethane	3.056	101	26311	5.740	ug/l		98
8) Diethyl Ether	3.458	74	7213	5.786	ug/l		98
9) 1,1,2-Trichlorotrifluo...	3.824	101	14493	5.995	ug/l		98
10) Methyl Iodide	4.007	142	12311	4.642	ug/l		98
11) Tert butyl alcohol	4.860	59	4636	30.344	ug/l	#	85
12) 1,1-Dichloroethene	3.793	96	12778	5.611	ug/l		92
13) Acrolein	3.653	56	7499	26.881	ug/l		93
14) Allyl chloride	4.385	41	19469	5.362	ug/l		97
15) Acrylonitrile	5.061	53	14337	27.546	ug/l	#	88
16) Acetone	3.873	43	15736	32.687	ug/l		100
17) Carbon Disulfide	4.110	76	42467	5.662	ug/l		99
18) Methyl Acetate	4.391	43	7141	5.985	ug/l		97
19) Methyl tert-butyl Ether	5.110	73	29969	5.286	ug/l		100
20) Methylene Chloride	4.616	84	18885	4.497	ug/l		96
21) trans-1,2-Dichloroethene	5.116	96	13763	5.489	ug/l		95
22) Diisopropyl ether	6.019	45	38980	5.118	ug/l		95
23) Vinyl Acetate	5.964	43	111357	24.992	ug/l		98
24) 1,1-Dichloroethane	5.915	63	25578	5.616	ug/l	#	94
25) 2-Butanone	6.896	43	19664	28.598	ug/l		96
26) 2,2-Dichloropropane	6.884	77	23073	5.695	ug/l		100
27) cis-1,2-Dichloroethene	6.896	96	15197	5.390	ug/l		99
28) Bromochloromethane	7.250	49	11139	5.799	ug/l		99
29) Tetrahydrofuran	7.262	42	11696	26.430	ug/l		99
30) Chloroform	7.421	83	26819	5.662	ug/l		95
31) Cyclohexane	7.707	56	25394	6.117	ug/l	#	88
32) 1,1,1-Trichloroethane	7.616	97	25069	5.856	ug/l		97
36) 1,1-Dichloropropene	7.835	75	18659	5.388	ug/l		99
37) Ethyl Acetate	6.988	43	9459	5.788	ug/l	#	95
38) Carbon Tetrachloride	7.817	117	22310	5.625	ug/l		95
39) Methylcyclohexane	9.109	83	20781	5.023	ug/l		97
40) Benzene	8.079	78	56287	5.427	ug/l		92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021656.D
Acq On : 27 Mar 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 28 02:13:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.232	41	4688m	5.402 ug/l		
42) 1,2-Dichloroethane	8.158	62	16381	5.603 ug/l		98
43) Isopropyl Acetate	8.195	43	16504	5.329 ug/l		97
44) Trichloroethene	8.866	130	14453	5.470 ug/l		98
45) 1,2-Dichloropropane	9.146	63	13429	5.470 ug/l		99
46) Dibromomethane	9.231	93	7882	5.571 ug/l		97
47) Bromodichloromethane	9.420	83	20008	5.458 ug/l		92
48) Methyl methacrylate	9.219	41	7427	5.225 ug/l		96
49) 1,4-Dioxane	9.231	88	1573	103.789 ug/l		91
51) 4-Methyl-2-Pentanone	9.999	43	40601	25.191 ug/l		97
52) Toluene	10.176	92	32954	5.093 ug/l		99
53) t-1,3-Dichloropropene	10.396	75	15986	4.909 ug/l		95
54) cis-1,3-Dichloropropene	9.859	75	19395	5.049 ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	9802	5.384 ug/l		94
56) Ethyl methacrylate	10.438	69	10060	4.327 ug/l		93
57) 1,3-Dichloropropane	10.719	76	16534	5.258 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	24903	21.959 ug/l		98
59) 2-Hexanone	10.762	43	26991	25.145 ug/l		92
60) Dibromochloromethane	10.914	129	13002	5.231 ug/l		99
61) 1,2-Dibromoethane	11.018	107	9345	5.472 ug/l		100
64) Tetrachloroethene	10.652	164	16085	5.860 ug/l		93
65) Chlorobenzene	11.444	112	37505	5.429 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	13496	5.506 ug/l		97
67) Ethyl Benzene	11.524	91	58750	4.959 ug/l		98
68) m/p-Xylenes	11.633	106	43785	9.652 ug/l		97
69) o-Xylene	11.956	106	20041	4.786 ug/l		98
70) Styrene	11.975	104	32075	4.594 ug/l		99
71) Bromoform	12.133	173	7253	5.187 ug/l	#	98
73) Isopropylbenzene	12.255	105	52860	4.885 ug/l		99
74) N-amyl acetate	12.072	43	11835	4.660 ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	11133	5.723 ug/l		95
76) 1,2,3-Trichloropropane	12.554	75	7373m	5.106 ug/l		
77) Bromobenzene	12.536	156	13783	5.305 ug/l		97
78) n-propylbenzene	12.597	91	63324	4.868 ug/l		100
79) 2-Chlorotoluene	12.682	91	38107	5.044 ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	42499	4.806 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	3023	4.823 ug/l		88
82) 4-Chlorotoluene	12.779	91	40326	5.119 ug/l		100
83) tert-Butylbenzene	12.999	119	37817	4.801 ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	40547	4.639 ug/l		99
85) sec-Butylbenzene	13.176	105	55918	4.858 ug/l		100
86) p-Isopropyltoluene	13.292	119	43714	4.595 ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	27604	5.393 ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	27332	5.405 ug/l		94
89) n-Butylbenzene	13.621	91	42102	4.785 ug/l		96
90) Hexachloroethane	13.883	117	11619	5.573 ug/l		99
91) 1,2-Dichlorobenzene	13.663	146	23277	5.224 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1634	5.419 ug/l		91
93) 1,2,4-Trichlorobenzene	14.925	180	11228	4.647 ug/l		97
94) Hexachlorobutadiene	15.029	225	8276	5.484 ug/l		96
95) Naphthalene	15.151	128	16796	4.194 ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	9518	4.619 ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021656.D
Acq On : 27 Mar 2025 10:08
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 :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:13:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

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

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

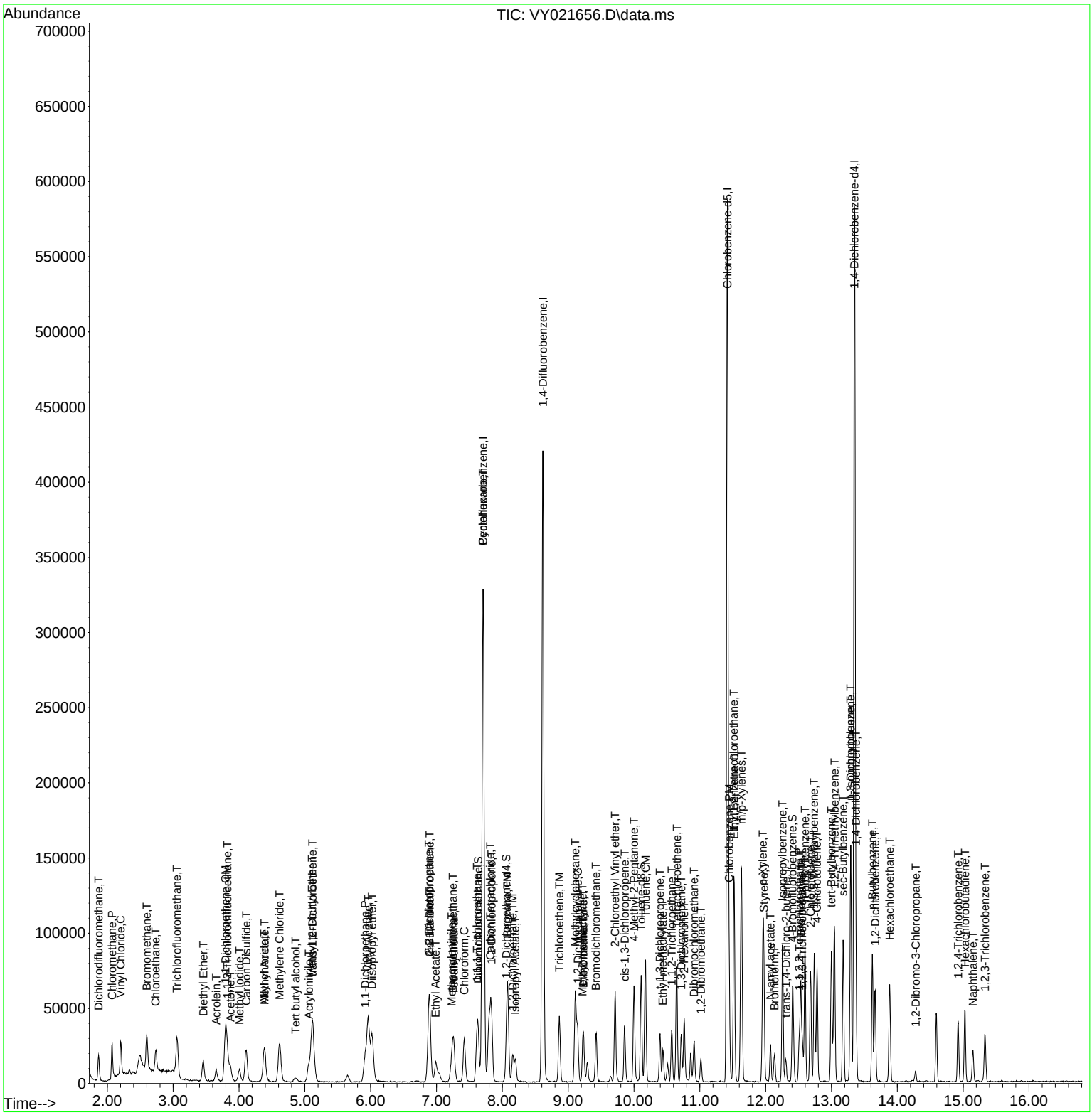
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021656.D
Acq On : 27 Mar 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

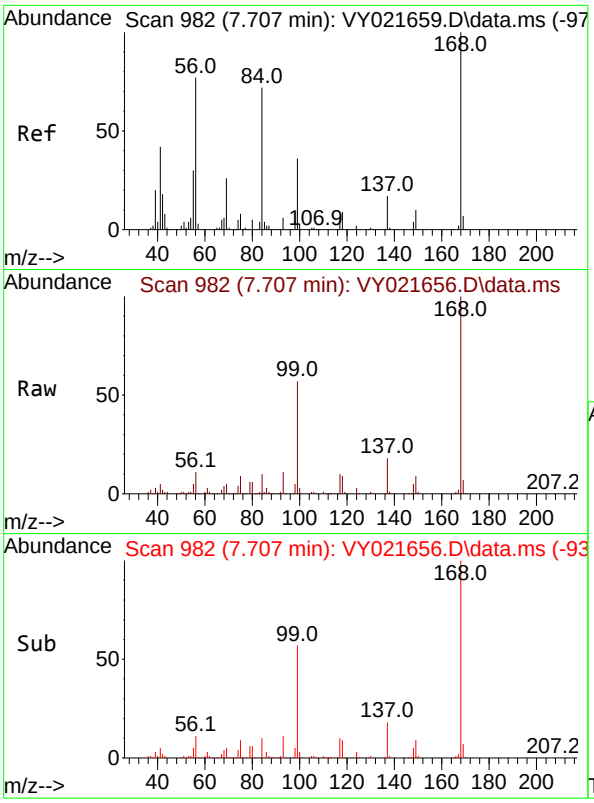
Quant Time: Mar 28 02:13:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

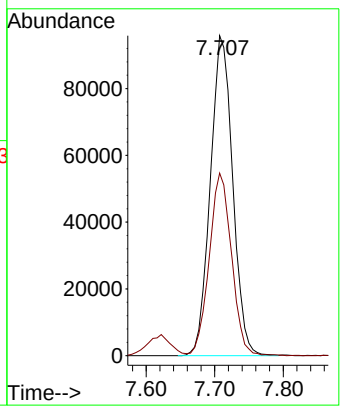




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:168 Resp: 21710

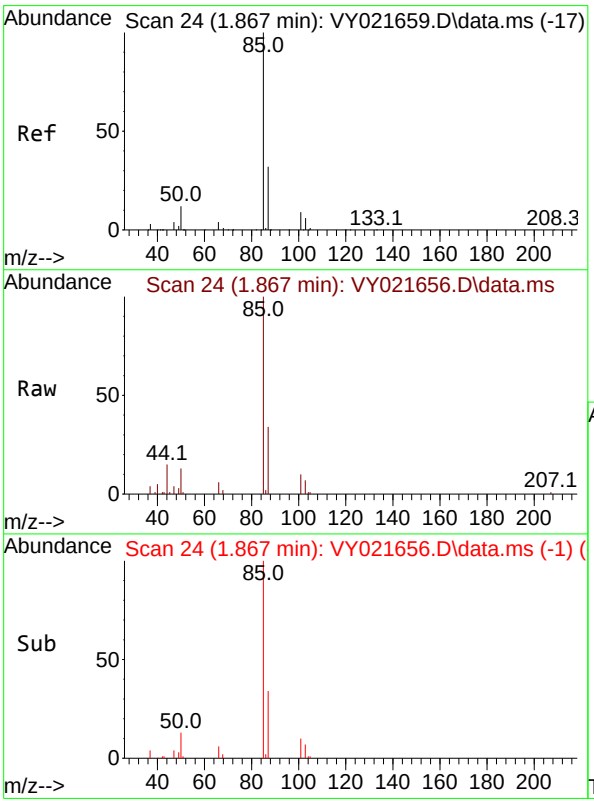
Ion	Ratio	Lower	Upper
168	100		
99	56.8	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

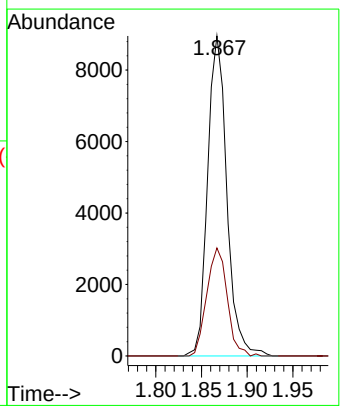
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

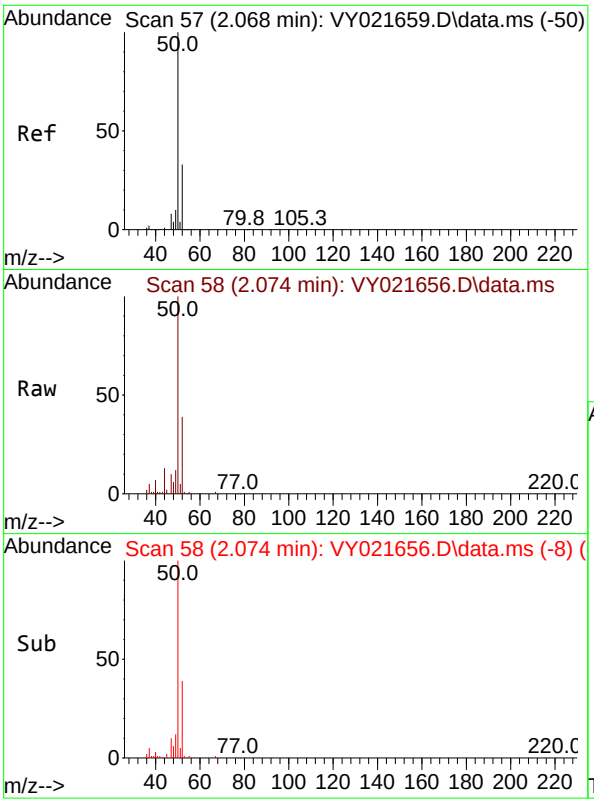


#2
Dichlorodifluoromethane
Concen: 5.806 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 85 Resp: 13065

Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.2	48.6

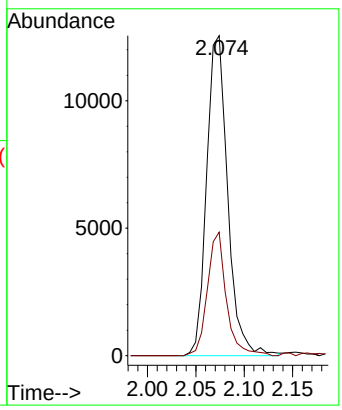




#3
Chloromethane
Concen: 6.010 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 50 Resp: 1901

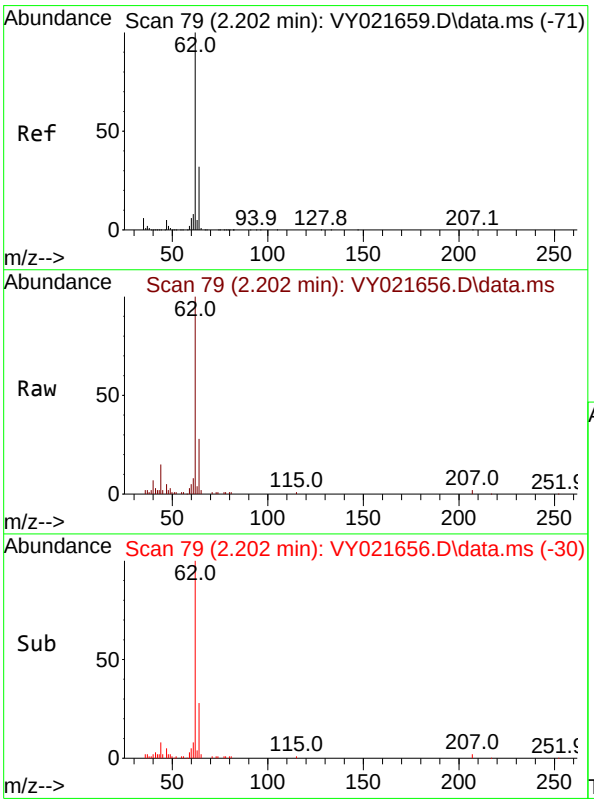
Ion	Ratio	Lower	Upper
50	100		
52	38.6	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

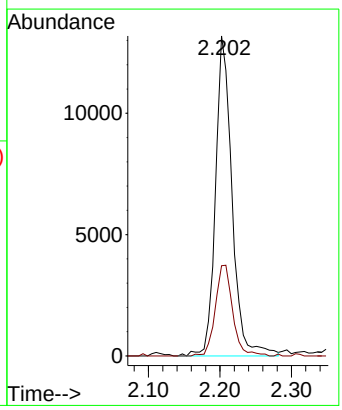
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

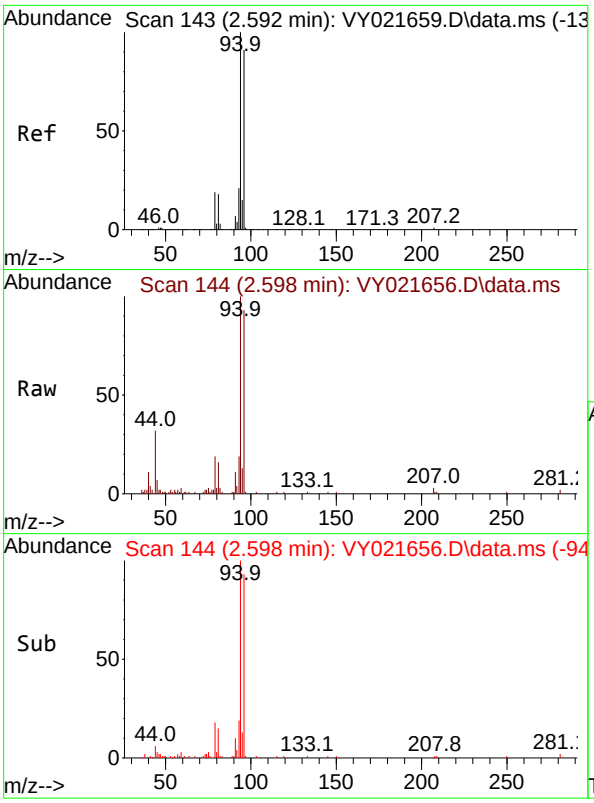


#4
Vinyl Chloride
Concen: 5.928 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 62 Resp: 21214

Ion	Ratio	Lower	Upper
62	100		
64	28.2	25.5	38.3

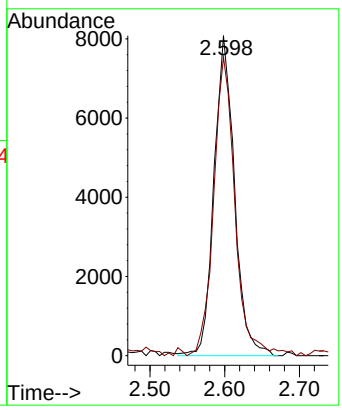




#5
Bromomethane
Concen: 6.308 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 94 Resp: 1539

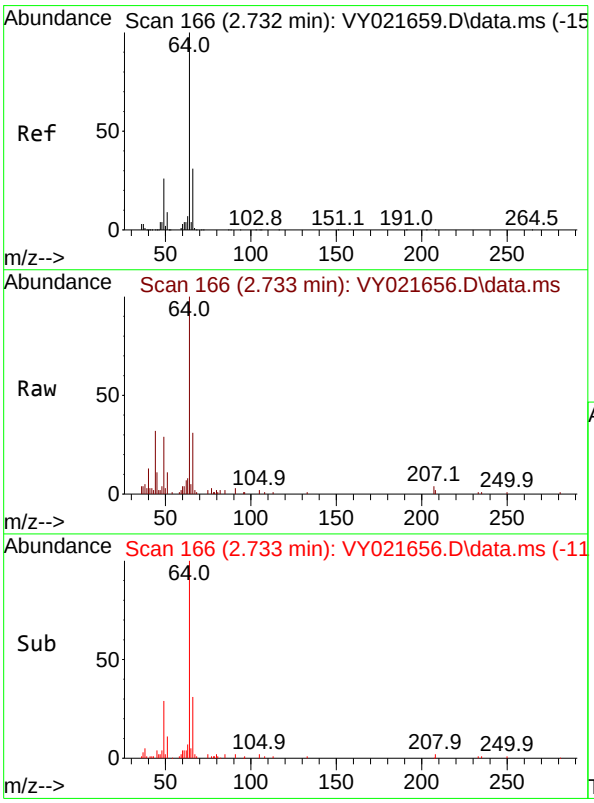
Ion	Ratio	Lower	Upper
94	100		
96	91.8	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

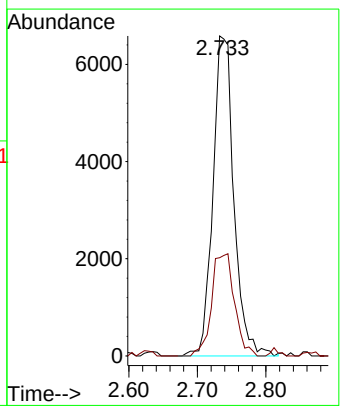
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

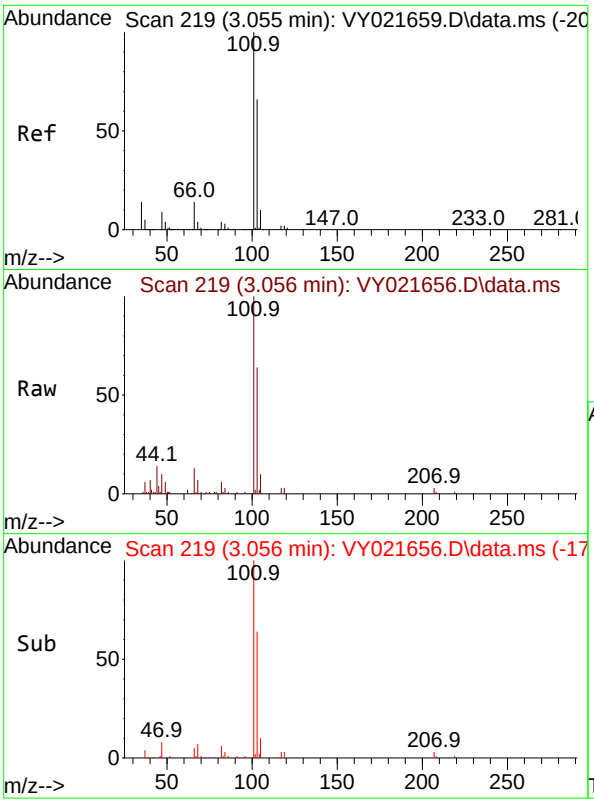


#6
Chloroethane
Concen: 5.969 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 64 Resp: 13977

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.9	37.3

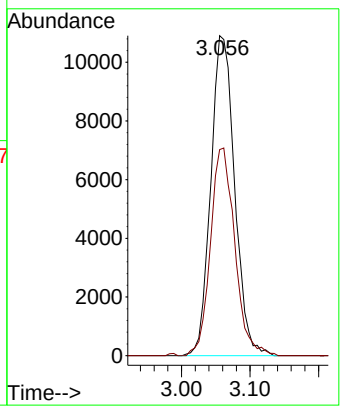




#7
Trichlorofluoromethane
Concen: 5.740 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:101 Resp: 2631

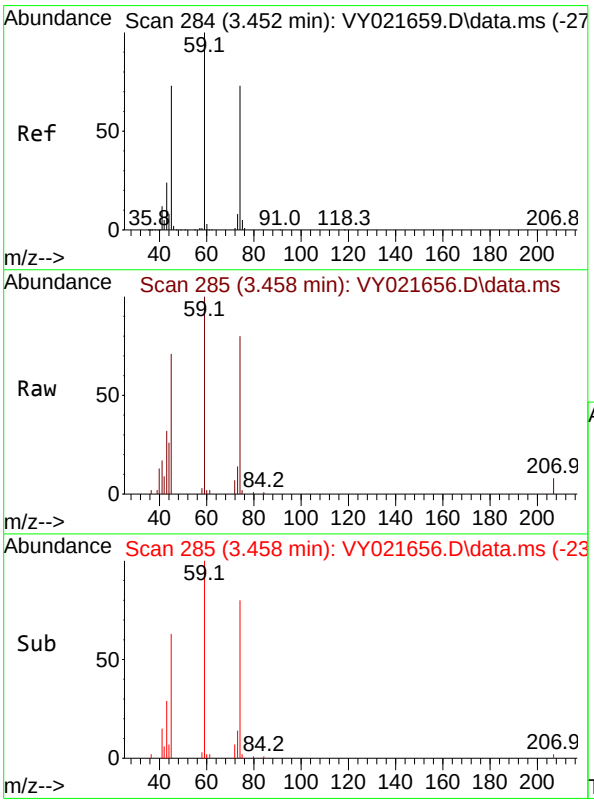
Ion	Ratio	Lower	Upper
101	100		
103	64.4	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

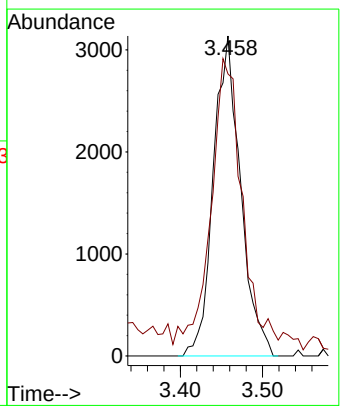
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

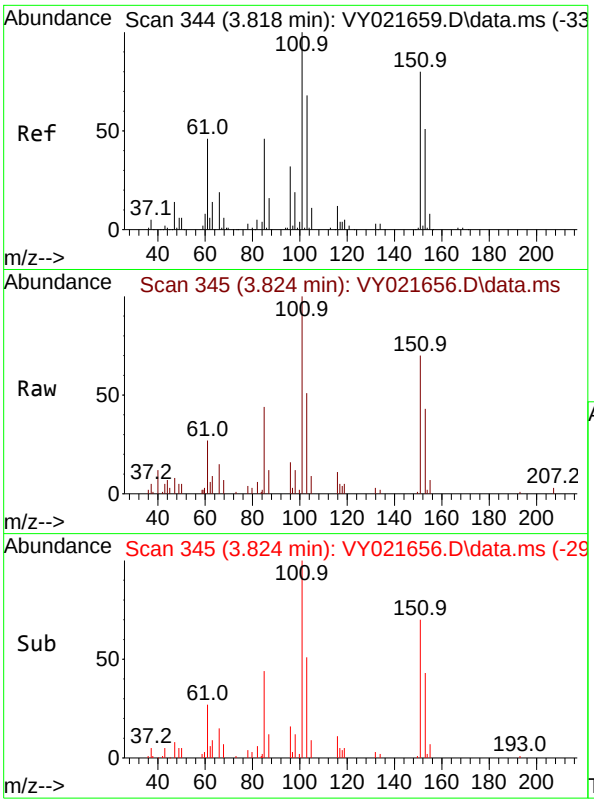


#8
Diethyl Ether
Concen: 5.786 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 74 Resp: 7213

Ion	Ratio	Lower	Upper
74	100		
45	99.4	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.995 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

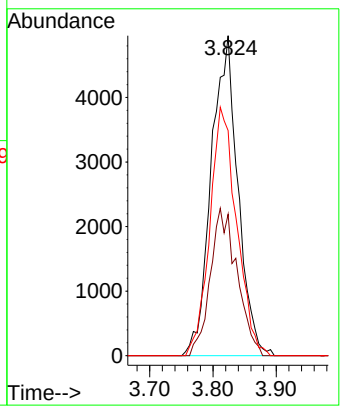
Tgt Ion:101 Resp: 1449

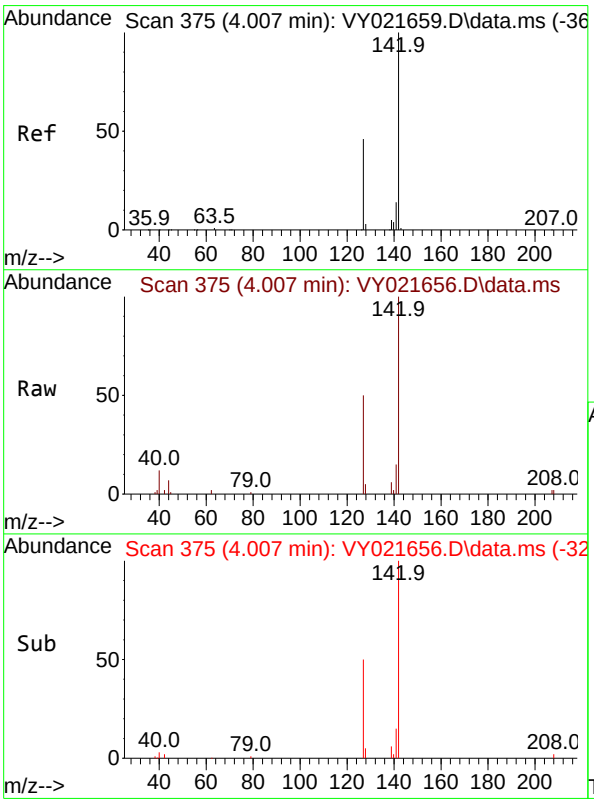
Ion	Ratio	Lower	Upper
101	100		
85	46.3	36.3	54.5
151	78.3	61.3	91.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

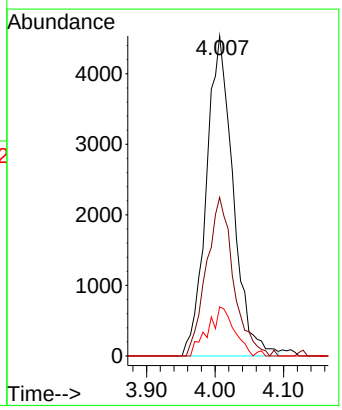


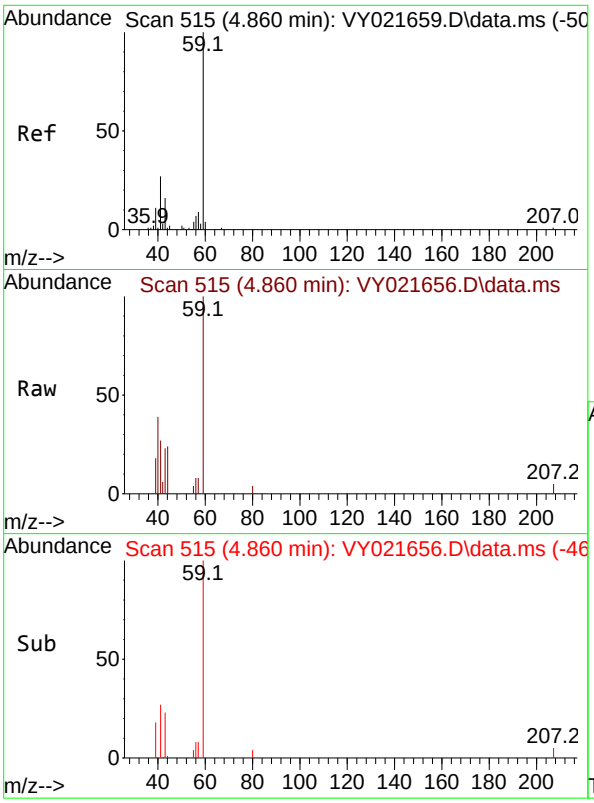


#10
Methyl Iodide
Concen: 4.642 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:142 Resp: 12311

Ion	Ratio	Lower	Upper
142	100		
127	50.2	38.7	58.1
141	15.0	11.5	17.3

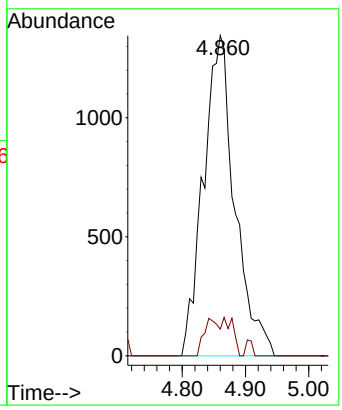




#11
Tert butyl alcohol
Concen: 30.344 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 59 Resp: 463

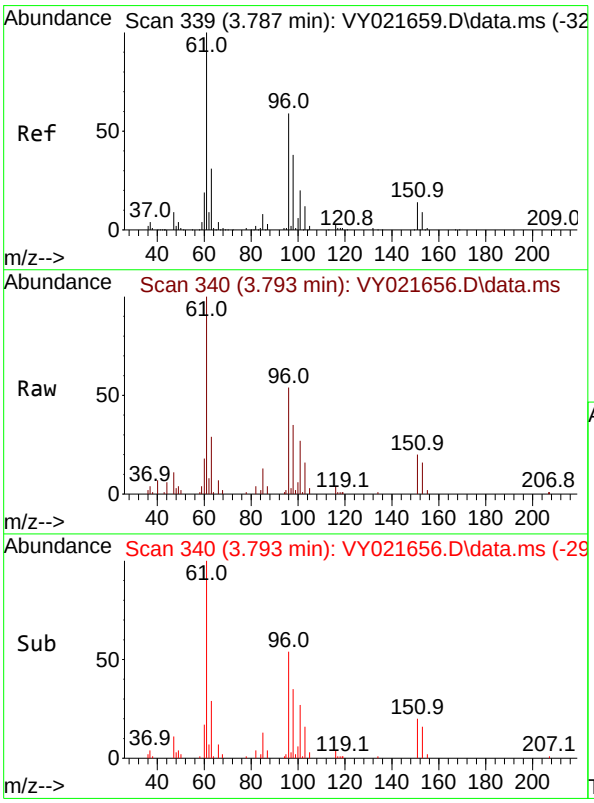
Ion	Ratio	Lower	Upper
59	100		
57	5.7	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

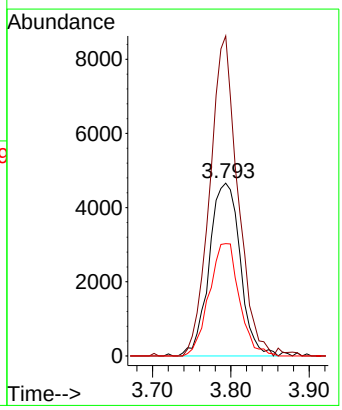
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

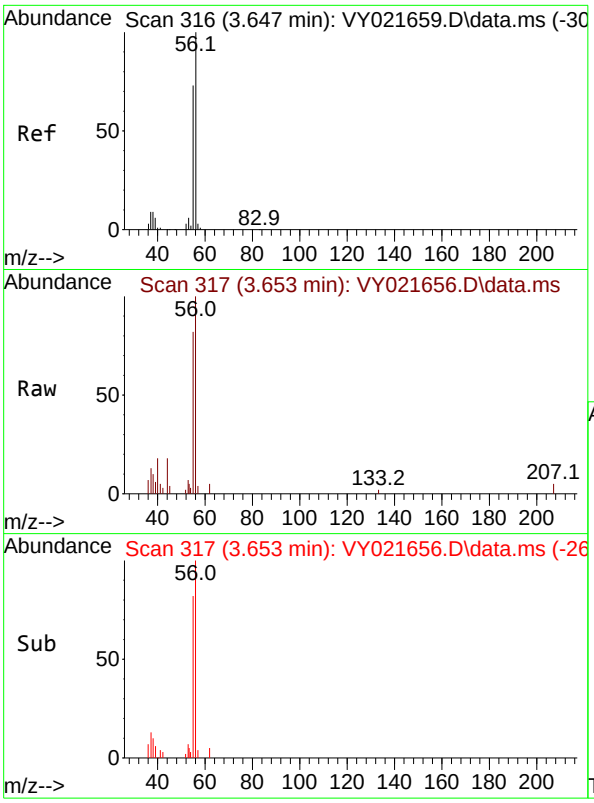


#12
1,1-Dichloroethene
Concen: 5.611 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 96 Resp: 12778

Ion	Ratio	Lower	Upper
96	100		
61	185.1	136.6	204.8
98	65.0	52.3	78.5

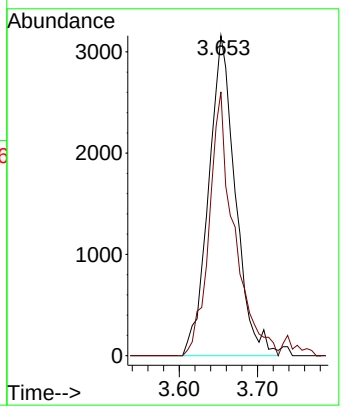




#13
Acrolein
Concen: 26.881 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 56 Resp: 749

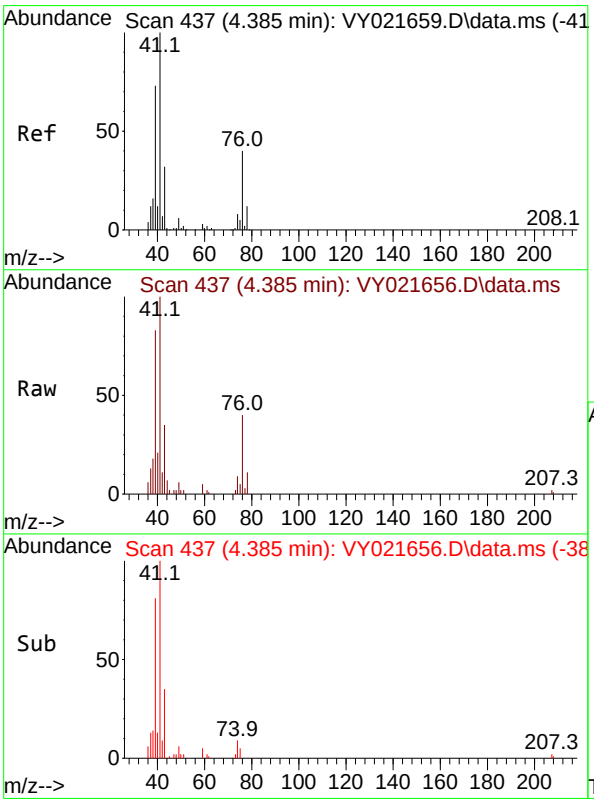
Ion	Ratio	Lower	Upper
56	100		
55	76.7	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

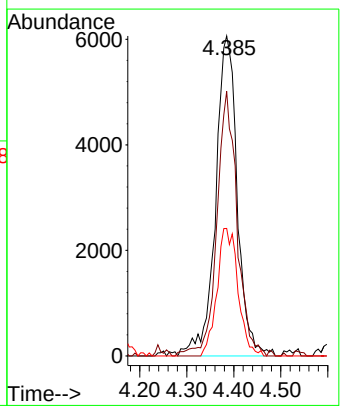
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

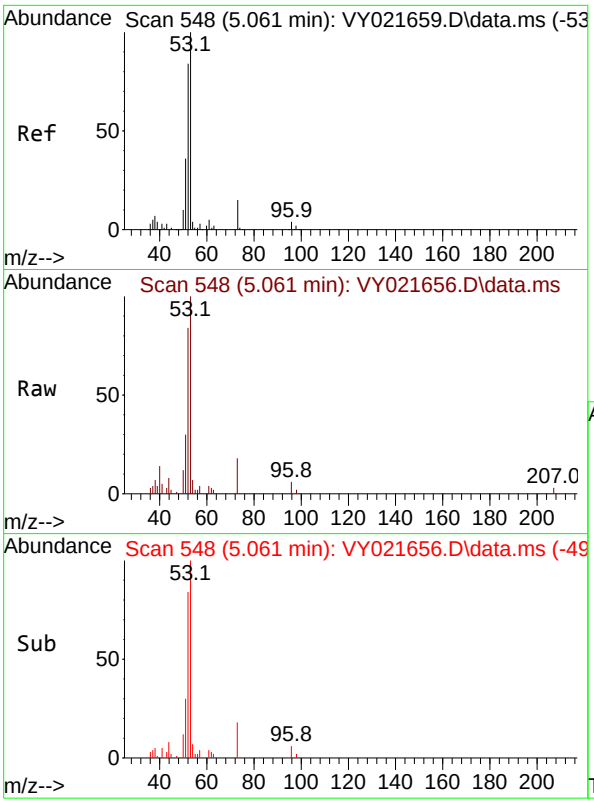


#14
Allyl chloride
Concen: 5.362 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 41 Resp: 19469

Ion	Ratio	Lower	Upper
41	100		
39	76.8	58.6	88.0
76	38.6	30.3	45.5

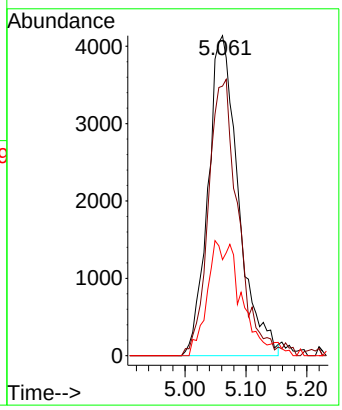




#15
Acrylonitrile
Concen: 27.546 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 53 Resp: 1433

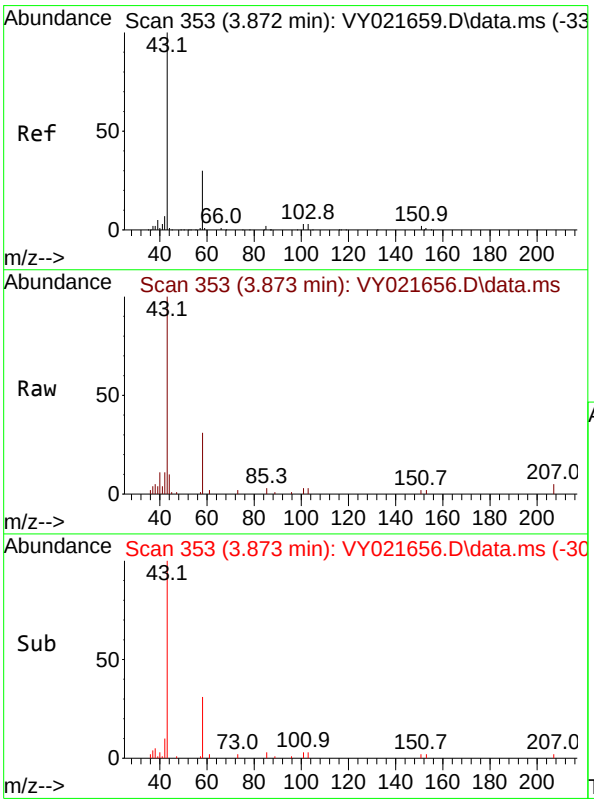
Ion	Ratio	Lower	Upper
53	100		
52	84.3	64.9	97.3
51	18.9	30.2	45.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

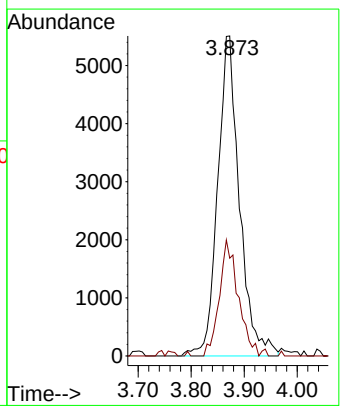
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

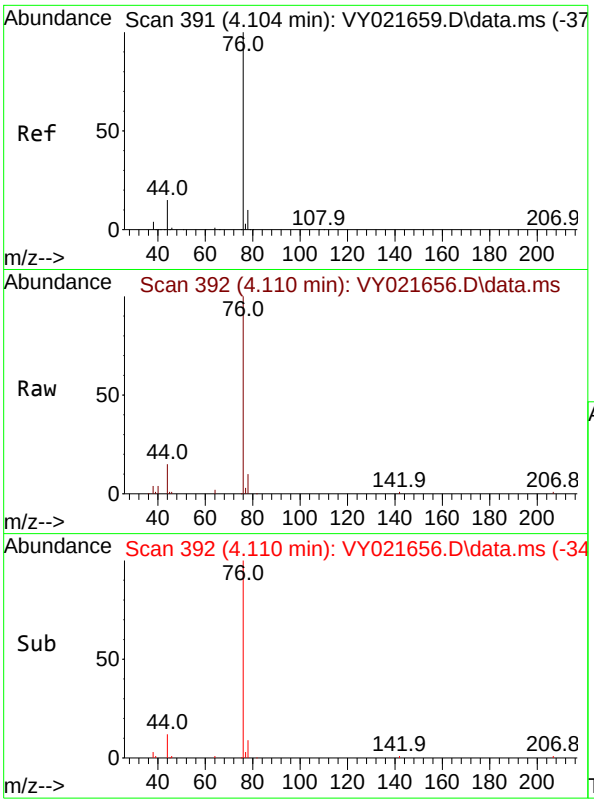


#16
Acetone
Concen: 32.687 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 43 Resp: 15736

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4

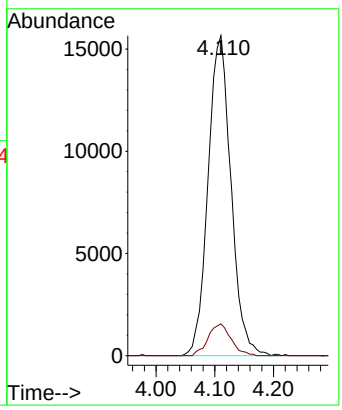




#17
Carbon Disulfide
Concen: 5.662 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 76 Resp: 4246

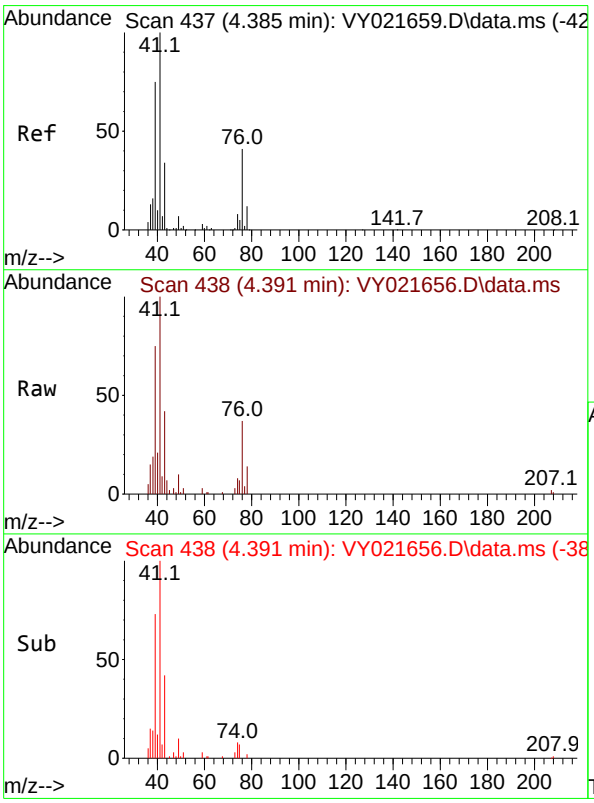
Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

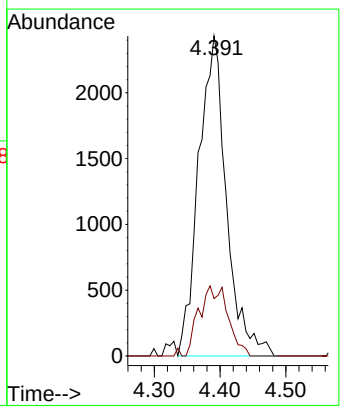
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

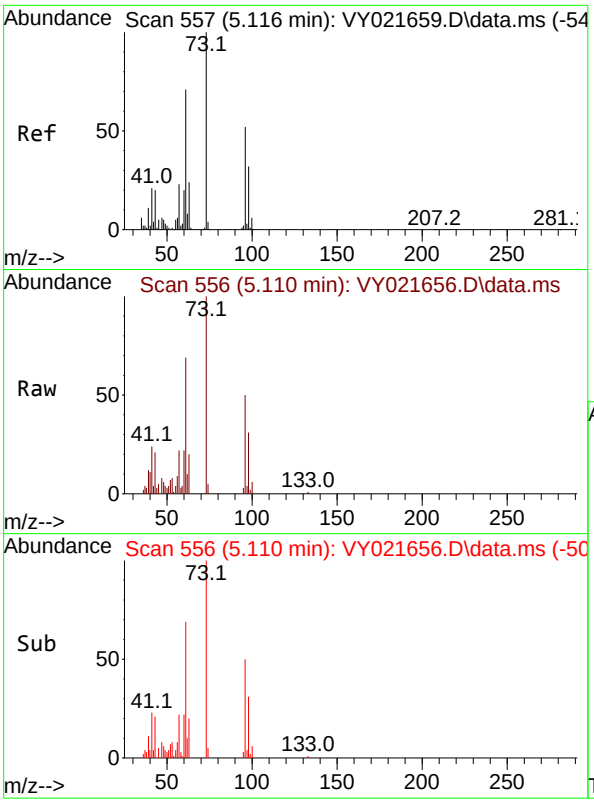


#18
Methyl Acetate
Concen: 5.985 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 43 Resp: 7141

Ion	Ratio	Lower	Upper
43	100		
74	22.6	19.1	28.7

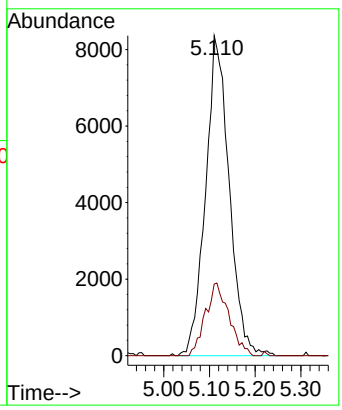




#19
Methyl tert-butyl Ether
Concen: 5.286 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 73 Resp: 2996

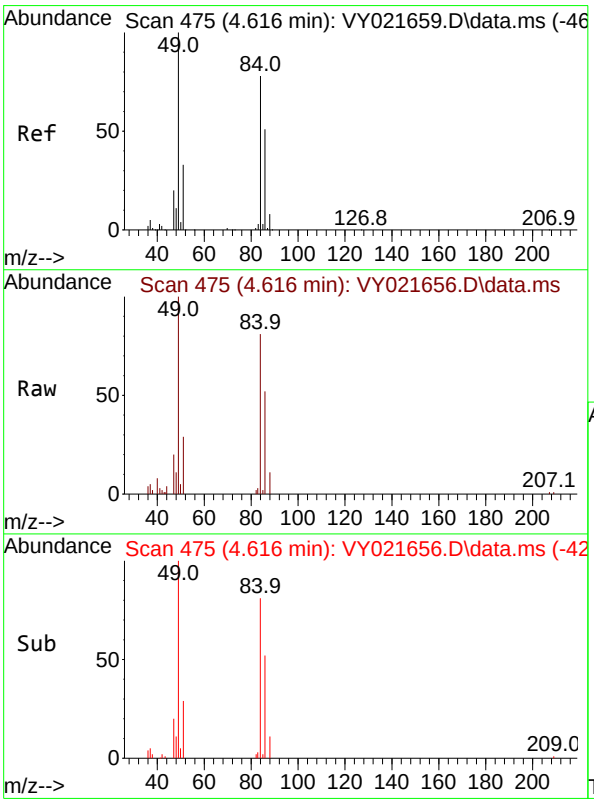
Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

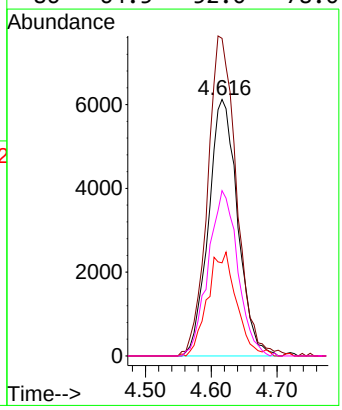
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

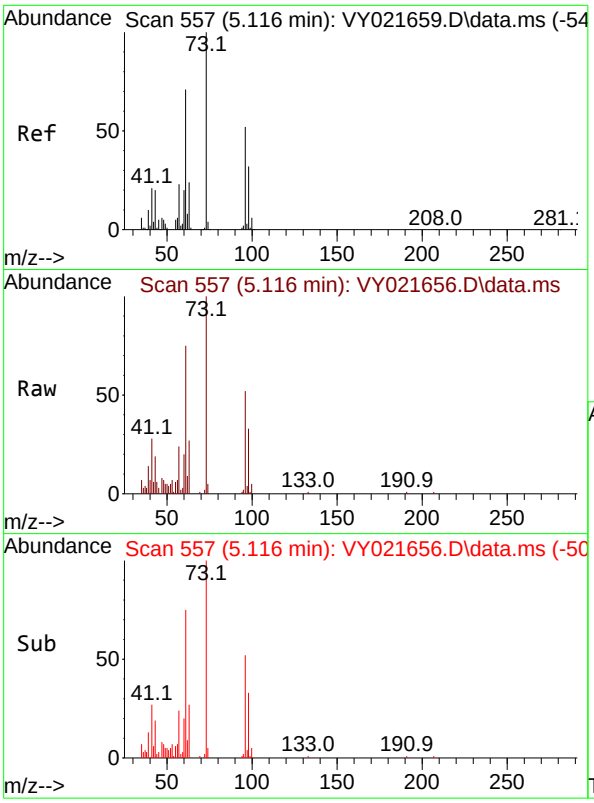


#20
Methylene Chloride
Concen: 4.497 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 84 Resp: 18885

Ion	Ratio	Lower	Upper
84	100		
49	123.8	102.8	154.2
51	36.3	33.5	50.3
86	64.5	52.0	78.0

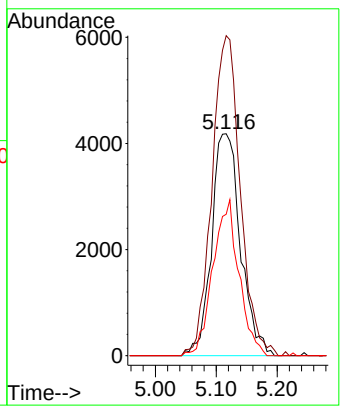




#21
trans-1,2-Dichloroethene
Concen: 5.489 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 96 Resp: 1376

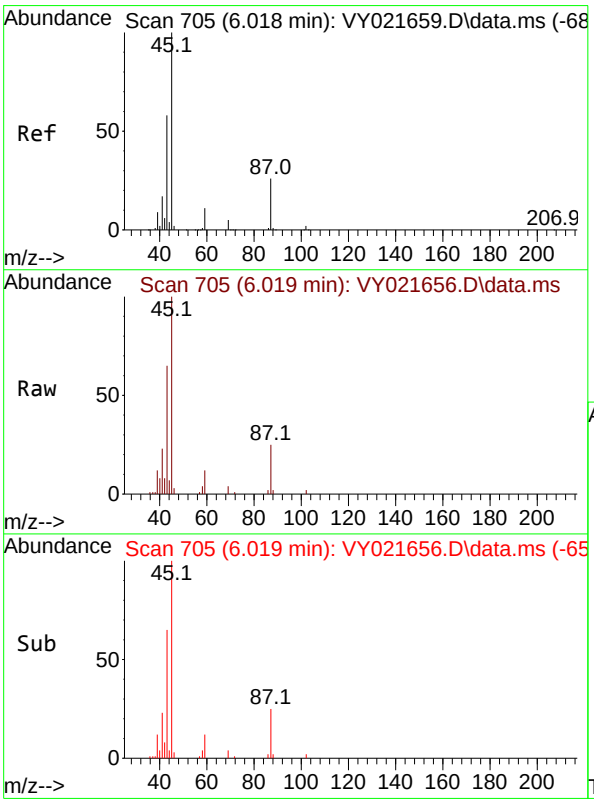
Ion	Ratio	Lower	Upper
96	100		
61	144.2	109.4	164.0
98	63.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

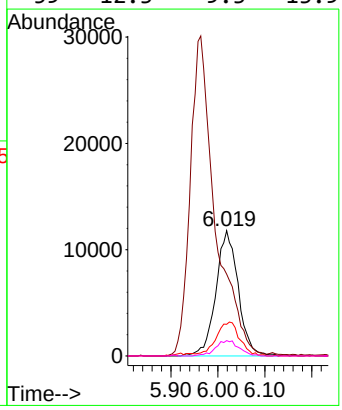
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

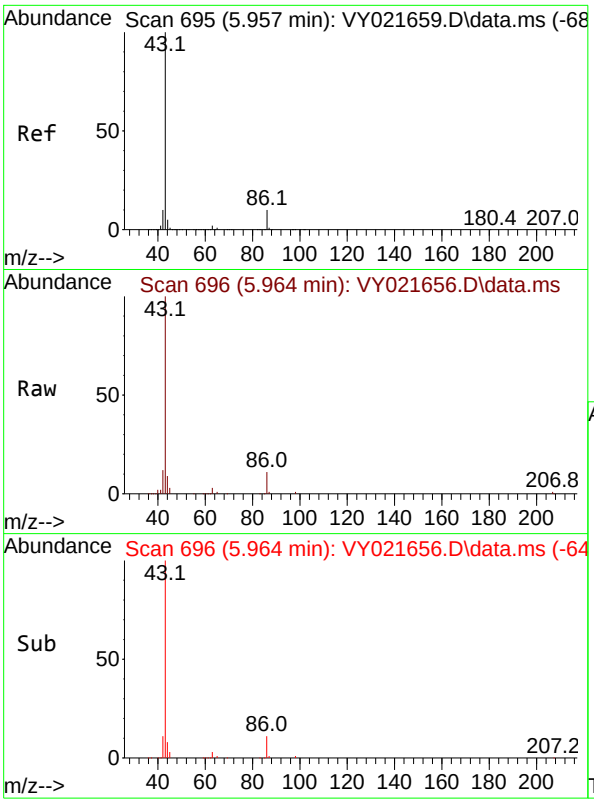


#22
Diisopropyl ether
Concen: 5.118 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 45 Resp: 38980

Ion	Ratio	Lower	Upper
45	100		
43	64.0	46.6	69.8
87	25.2	20.7	31.1
59	12.3	9.3	13.9





#23
Vinyl Acetate
Concen: 24.992 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

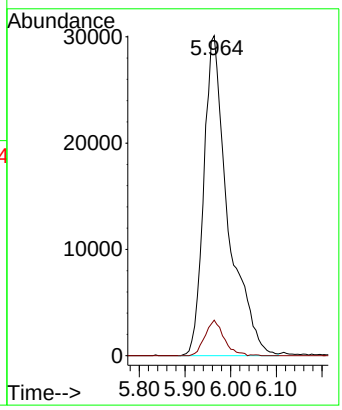
Tgt Ion: 43 Resp: 11135

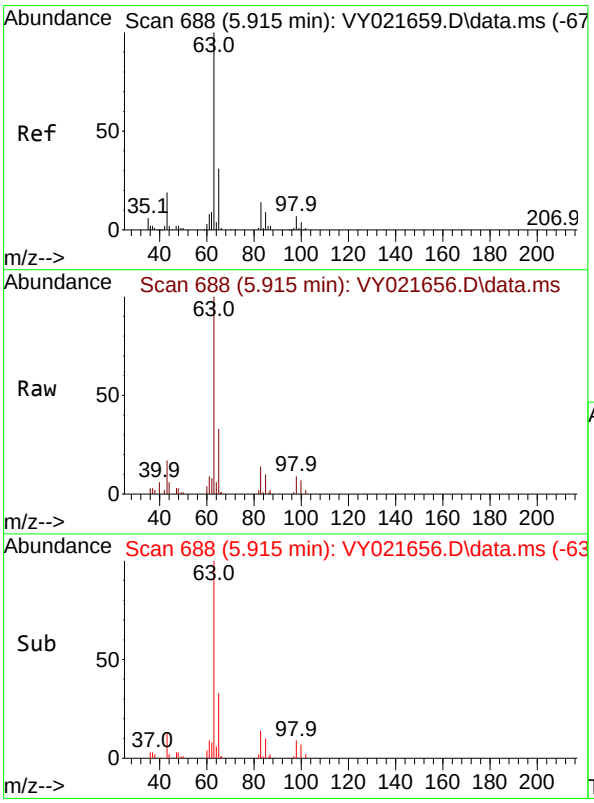
Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

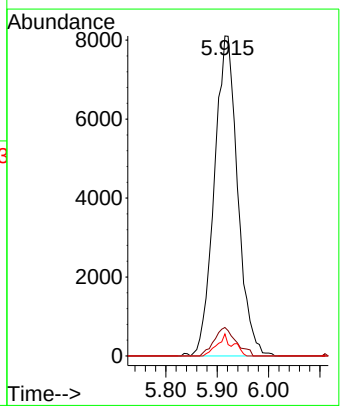


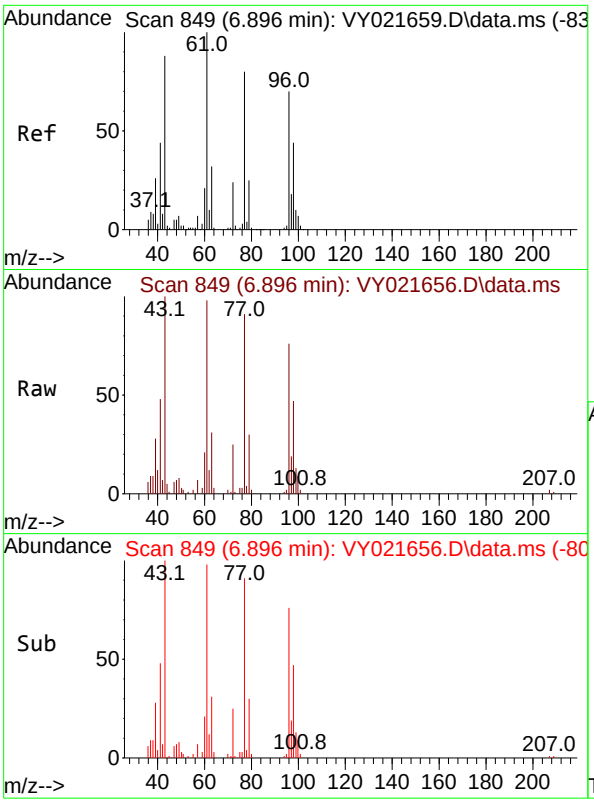


#24
1,1-Dichloroethane
Concen: 5.616 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 63 Resp: 25578

Ion	Ratio	Lower	Upper
63	100		
98	8.9	3.5	10.5
100	6.9	2.2	6.6#

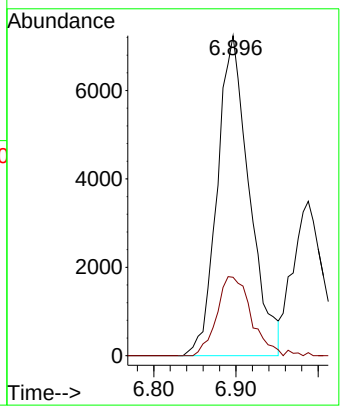




#25
2-Butanone
Concen: 28.598 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 43 Resp: 1966

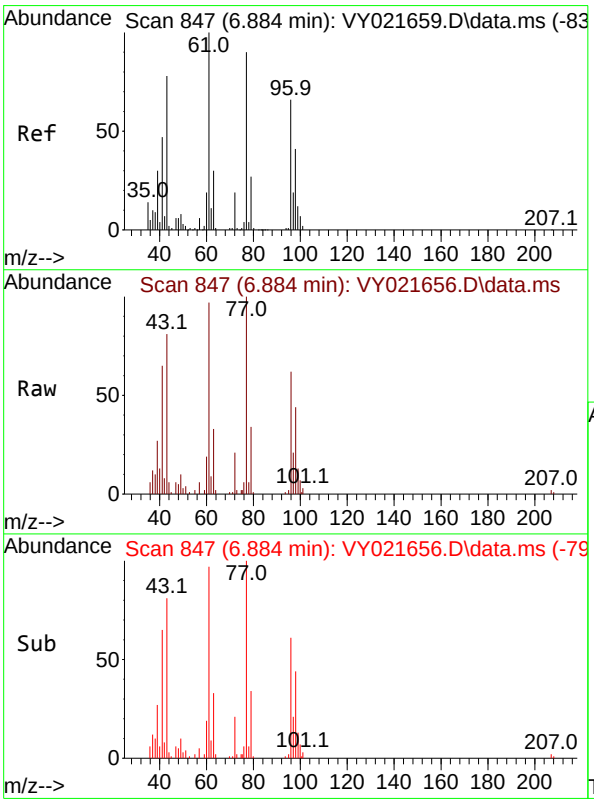
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.4	32.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

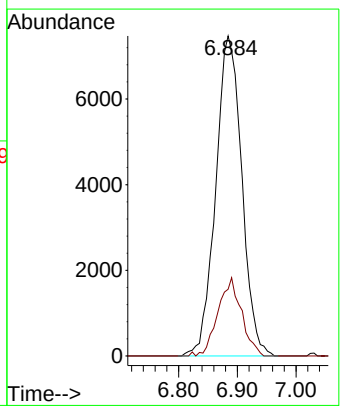
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

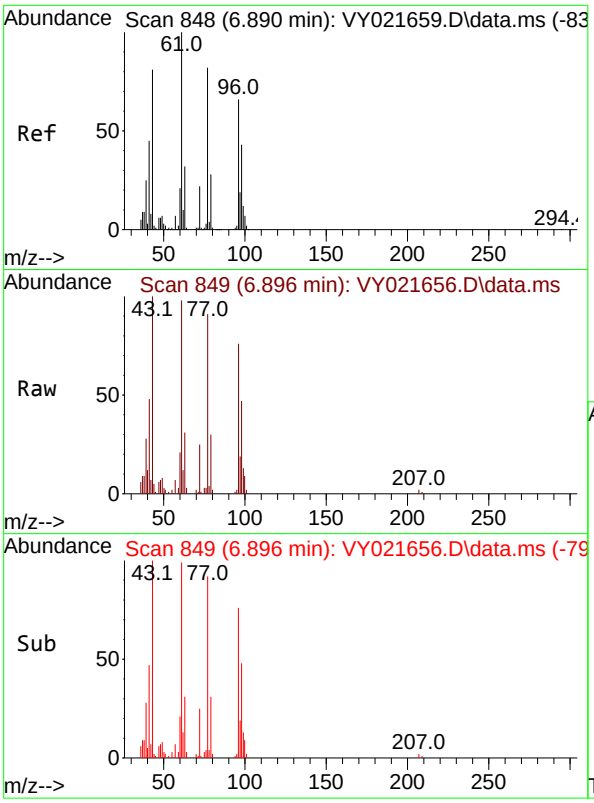


#26
2,2-Dichloropropane
Concen: 5.695 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 77 Resp: 23073

Ion	Ratio	Lower	Upper
77	100		
97	21.9	11.1	33.1





#27
cis-1,2-Dichloroethene
Concen: 5.390 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

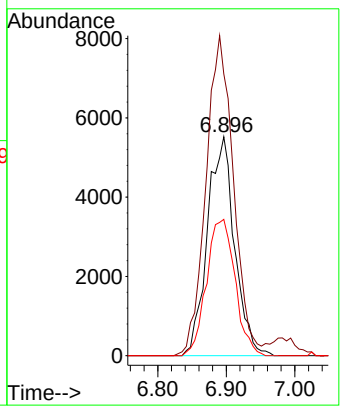
Tgt Ion: 96 Resp: 1519

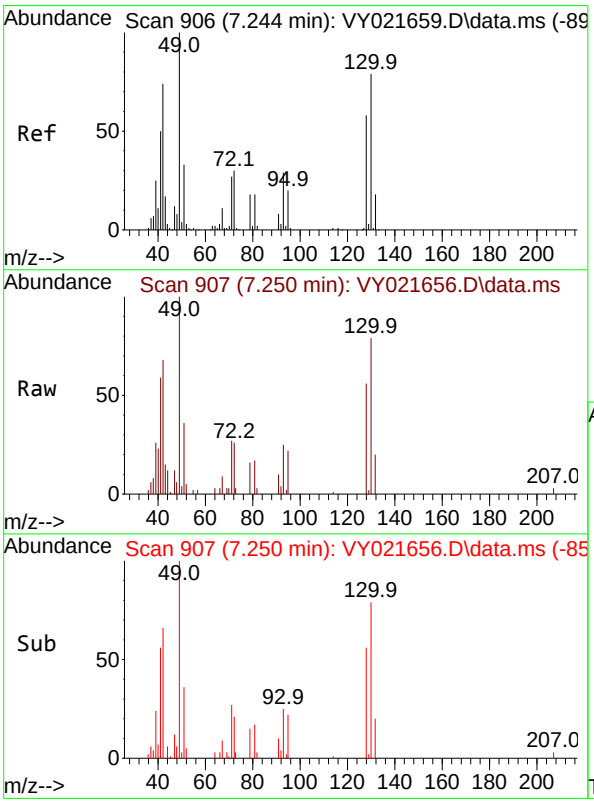
Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	296.4
98	65.4	0.0	128.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

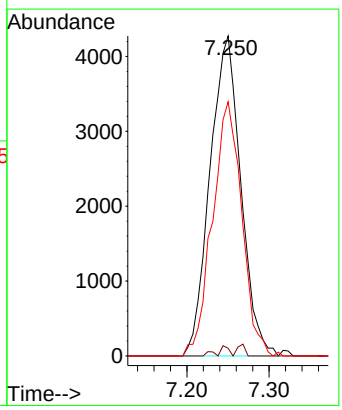


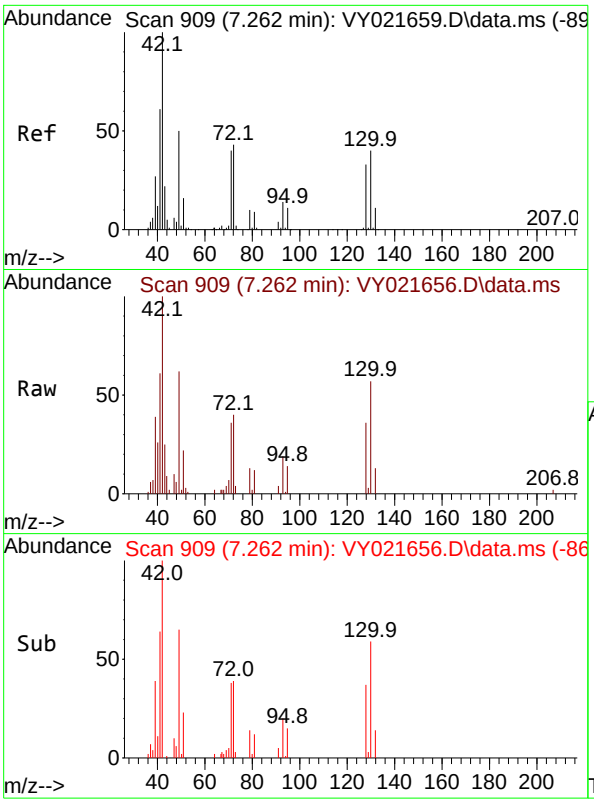


#28
Bromochloromethane
Concen: 5.799 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 49 Resp: 11139

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	75.8	60.1	90.1

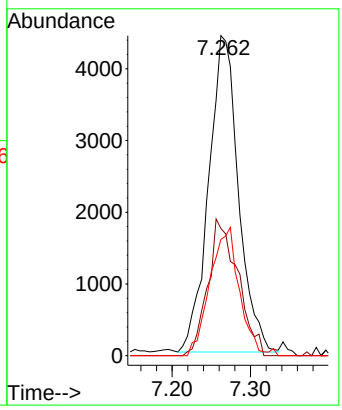




#29
Tetrahydrofuran
Concen: 26.430 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 42 Resp: 1169(

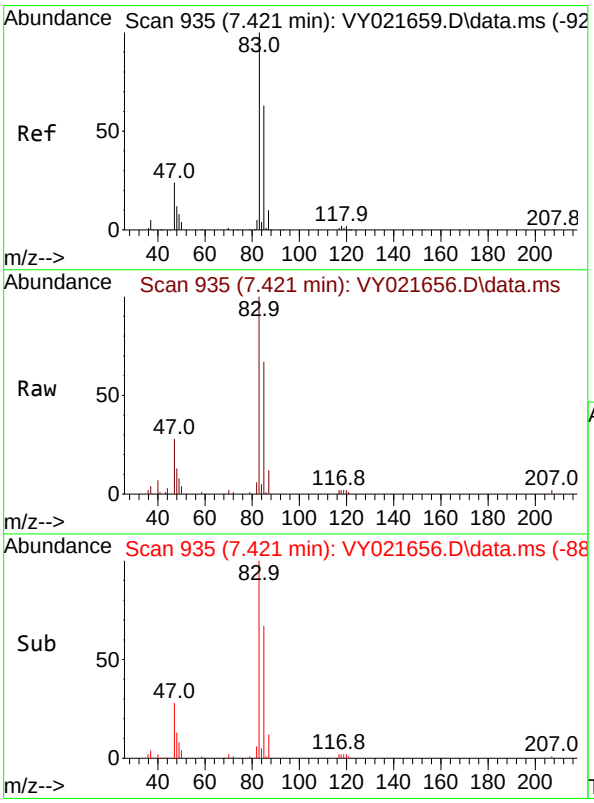
Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.6	52.0
71	39.9	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

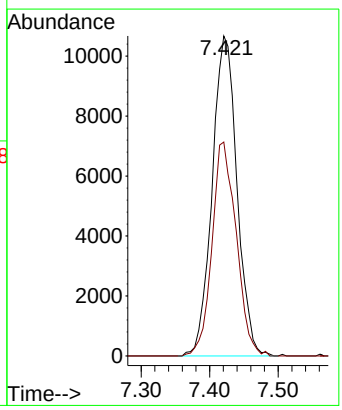
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

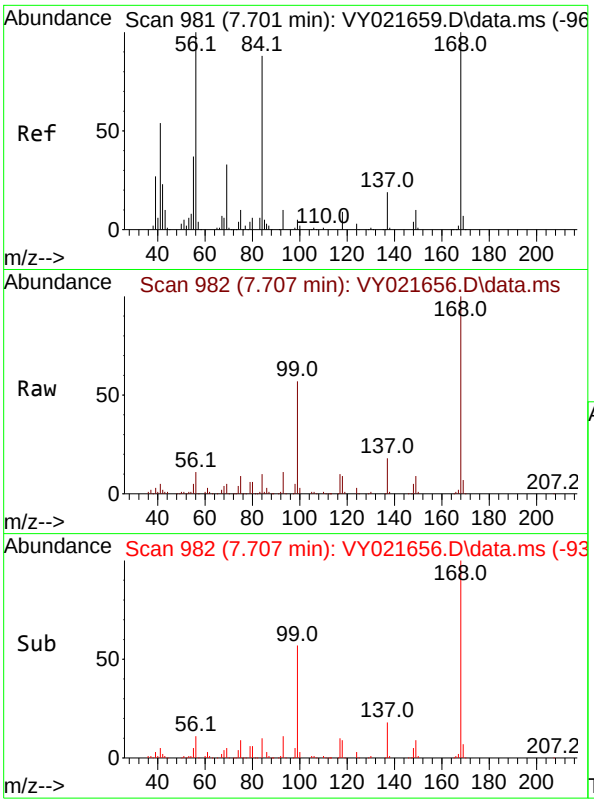


#30
Chloroform
Concen: 5.662 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 83 Resp: 26819

Ion	Ratio	Lower	Upper
83	100		
85	66.9	50.6	75.8

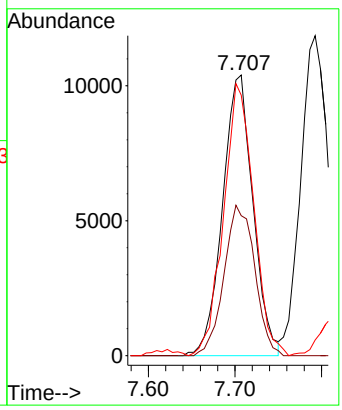




#31
Cyclohexane
Concen: 6.117 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 56 Resp: 2539

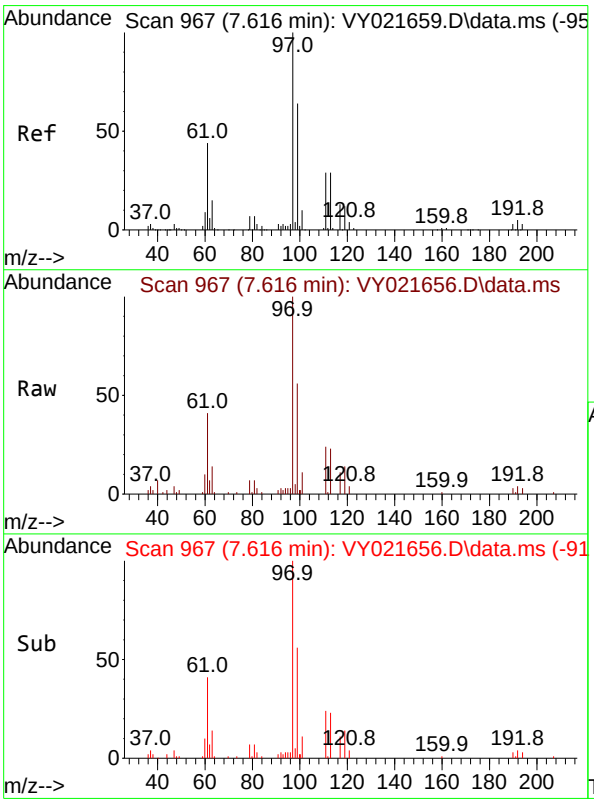
Ion	Ratio	Lower	Upper
56	100		
69	49.9	26.6	40.0
84	91.4	69.0	103.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

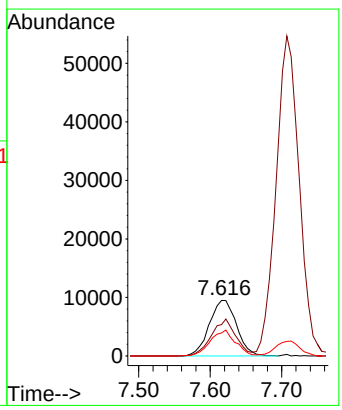
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

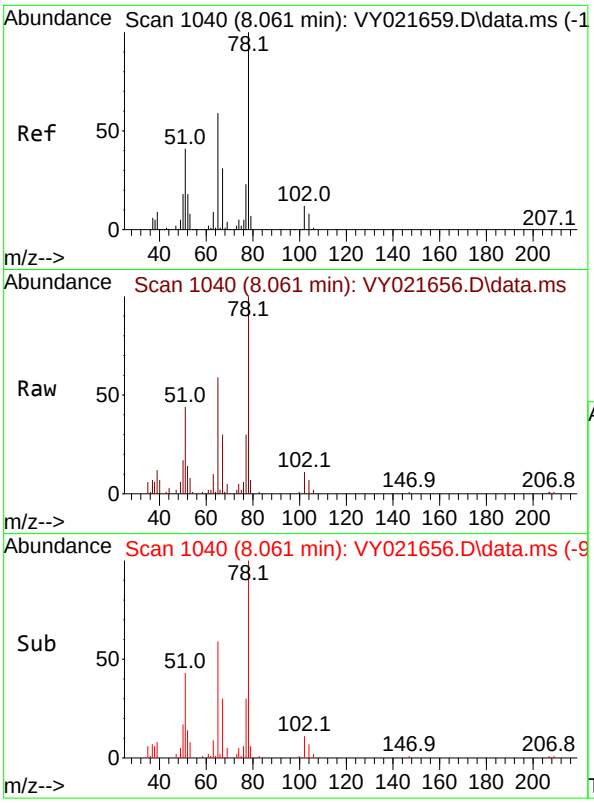


#32
1,1,1-Trichloroethane
Concen: 5.856 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 97 Resp: 25069

Ion	Ratio	Lower	Upper
97	100		
99	59.7	50.7	76.1
61	43.2	35.2	52.8

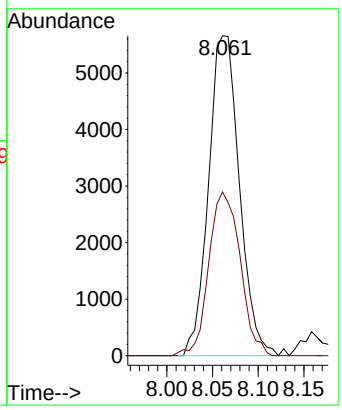




#33
1,2-Dichloroethane-d4
Concen: 5.650 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 65 Resp: 1328

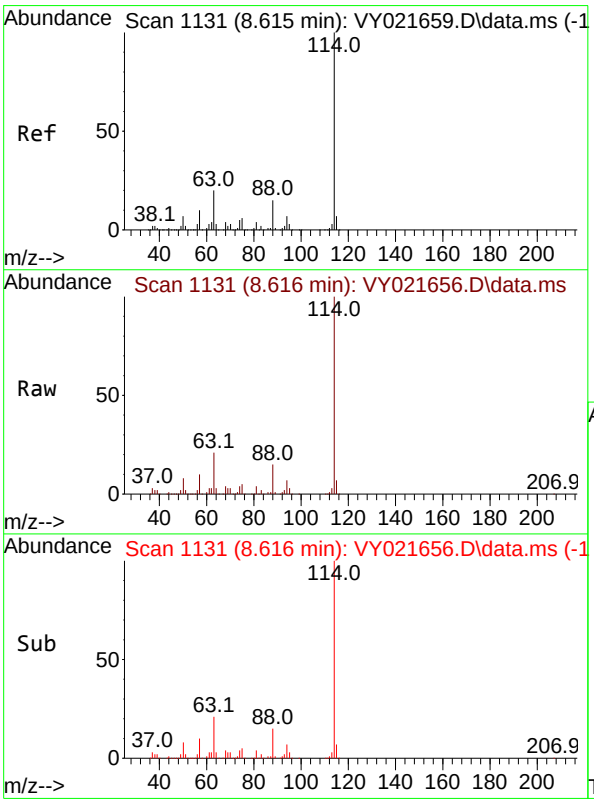
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

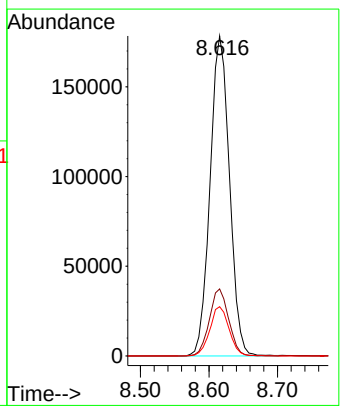
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

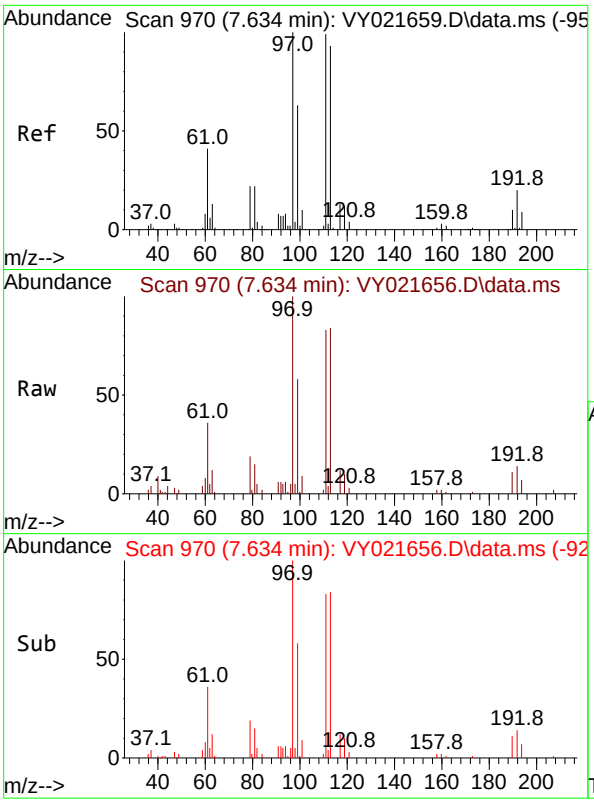


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:114 Resp: 350486

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.2
88	15.4	0.0	29.8

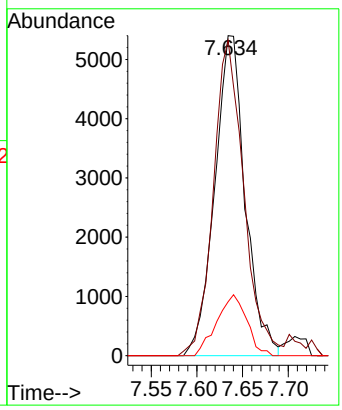




#35
Dibromofluoromethane
Concen: 5.506 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:113 Resp: 1251

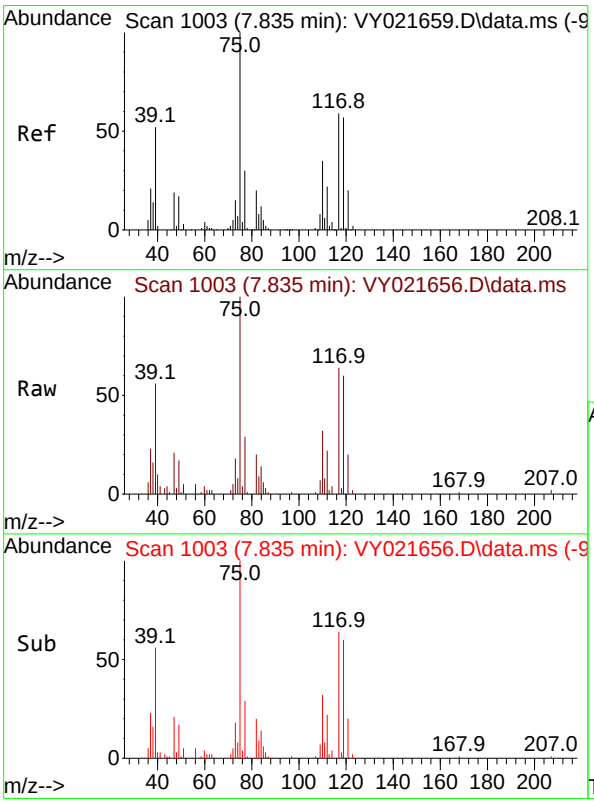
Ion	Ratio	Lower	Upper
113	100		
111	98.5	82.6	123.8
192	18.8	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

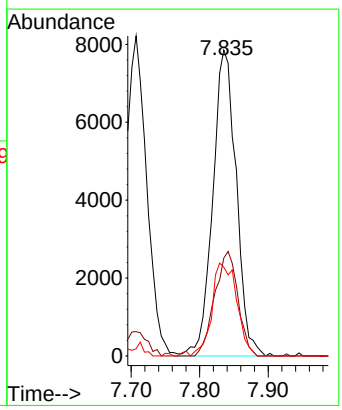
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

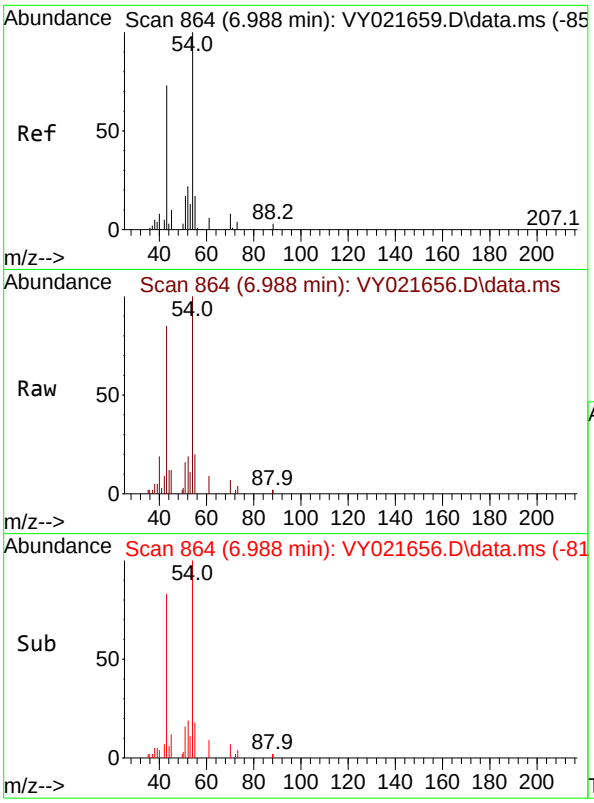


#36
1,1-Dichloropropene
Concen: 5.388 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 75 Resp: 18659

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.0	50.9
77	32.1	24.8	37.2





#37
Ethyl Acetate
Concen: 5.788 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

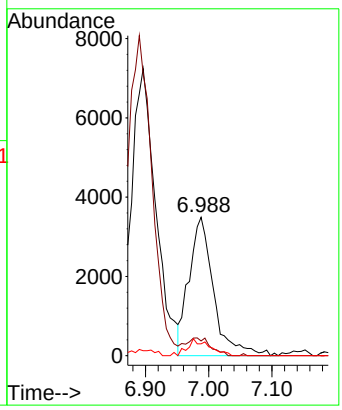
Tgt Ion: 43 Resp: 945

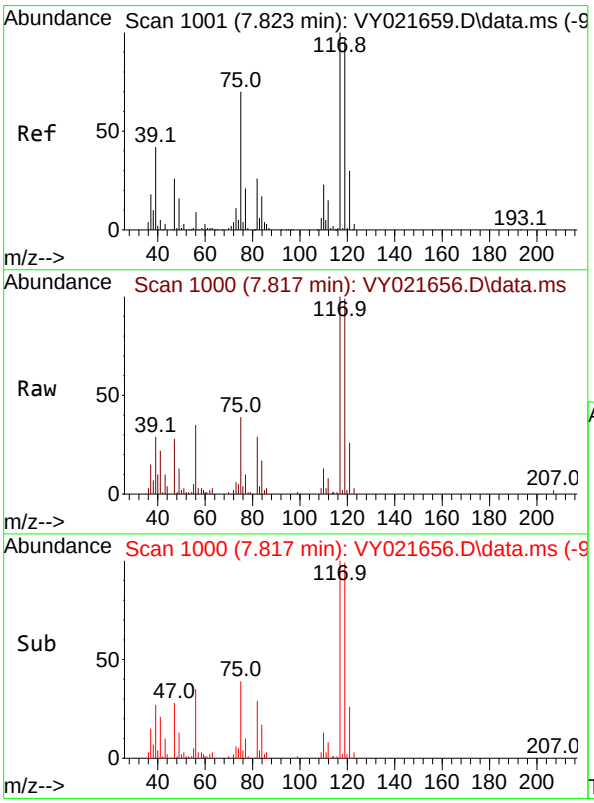
Ion	Ratio	Lower	Upper
43	100		
61	10.9	11.0	16.6
70	10.8	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

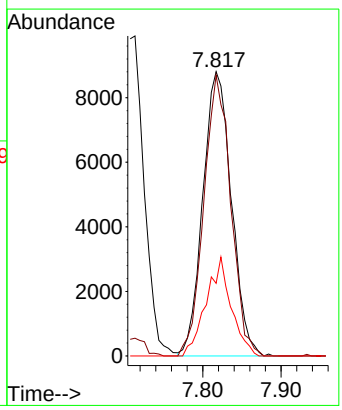


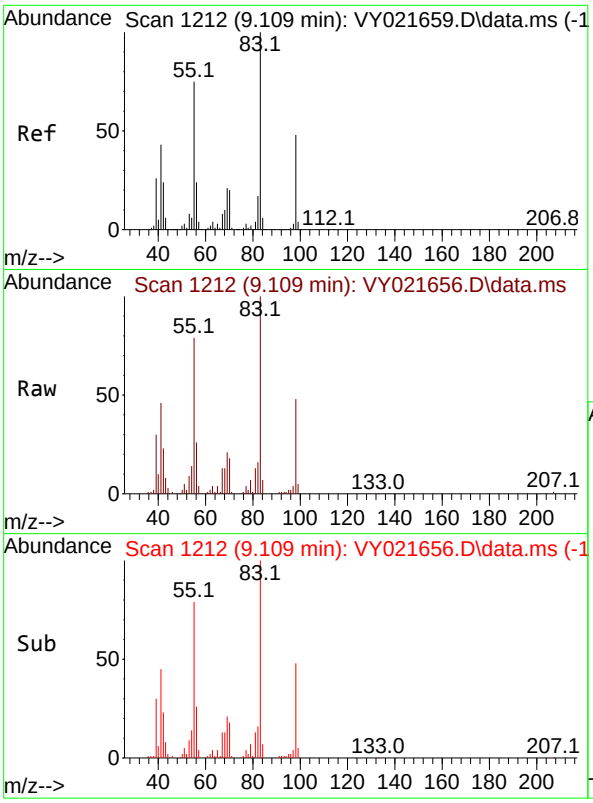


#38
Carbon Tetrachloride
Concen: 5.625 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:117 Resp: 22310

Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.2	114.4
121	25.6	24.2	36.4





#39
Methylcyclohexane
Concen: 5.023 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

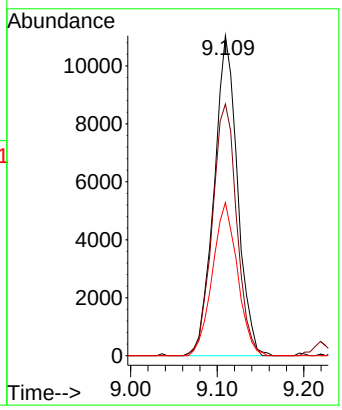
Tgt Ion: 83 Resp: 2078

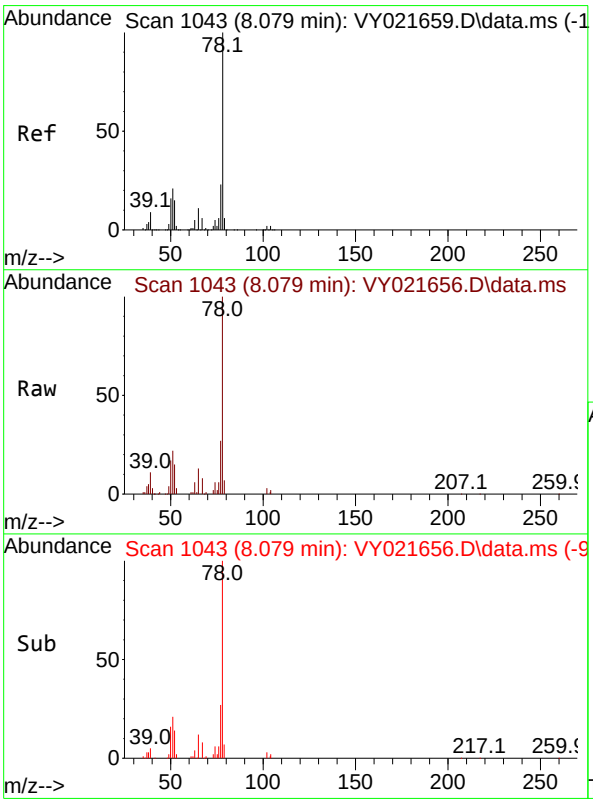
Ion	Ratio	Lower	Upper
83	100		
55	78.6	59.7	89.5
98	47.9	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

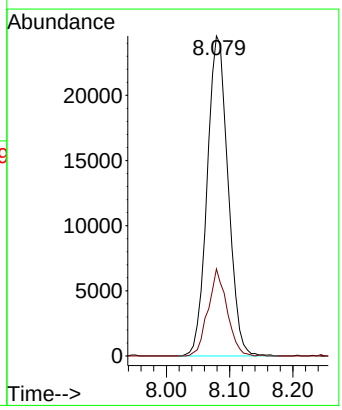


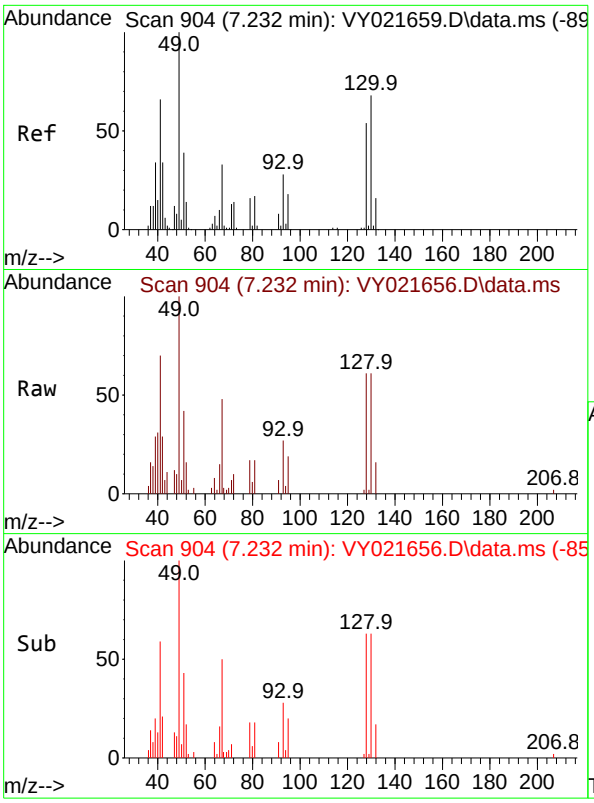


#40
Benzene
Concen: 5.427 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 78 Resp: 56287

Ion	Ratio	Lower	Upper
78	100		
77	27.2	18.8	28.2

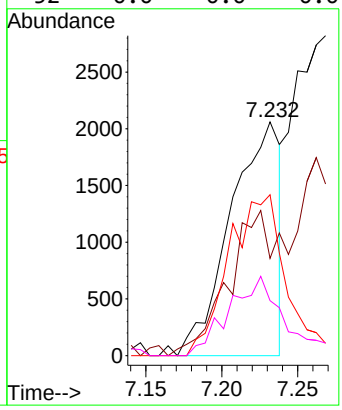




#41
Methacrylonitrile
Concen: 5.402 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 41 Resp: 468

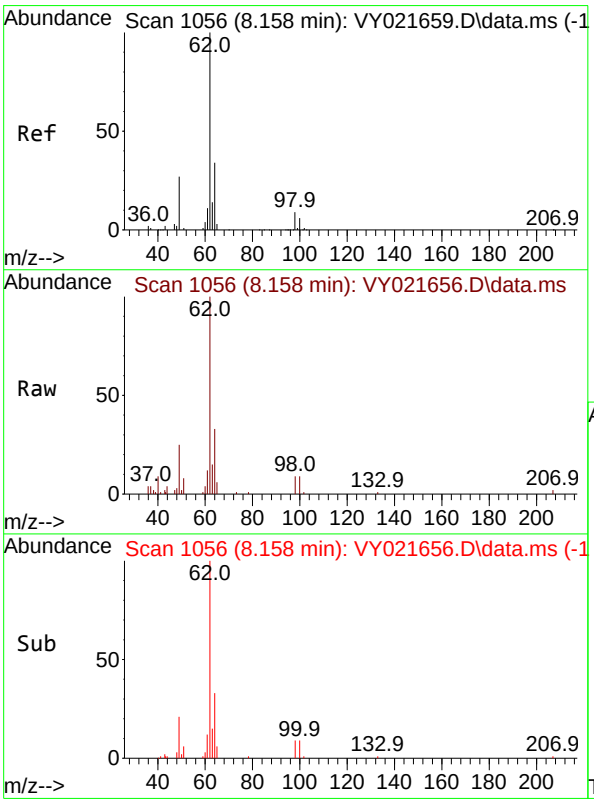
Ion	Ratio	Lower	Upper
41	100		
39	78.1	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

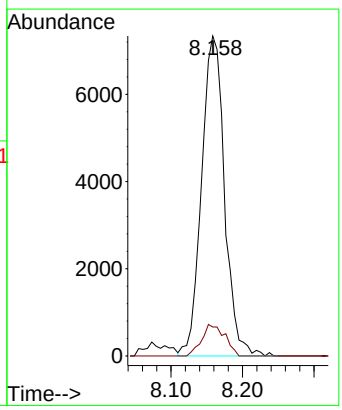
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

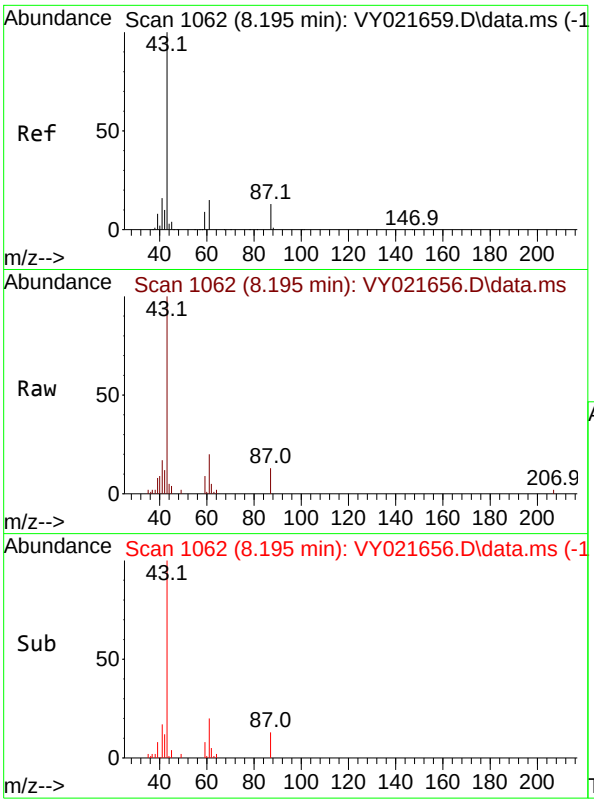


#42
1,2-Dichloroethane
Concen: 5.603 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 62 Resp: 16381

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	18.4

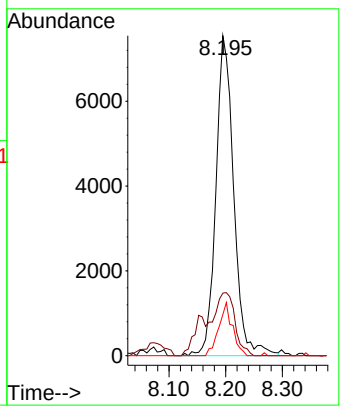




#43
Isopropyl Acetate
Concen: 5.329 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 43 Resp: 1650

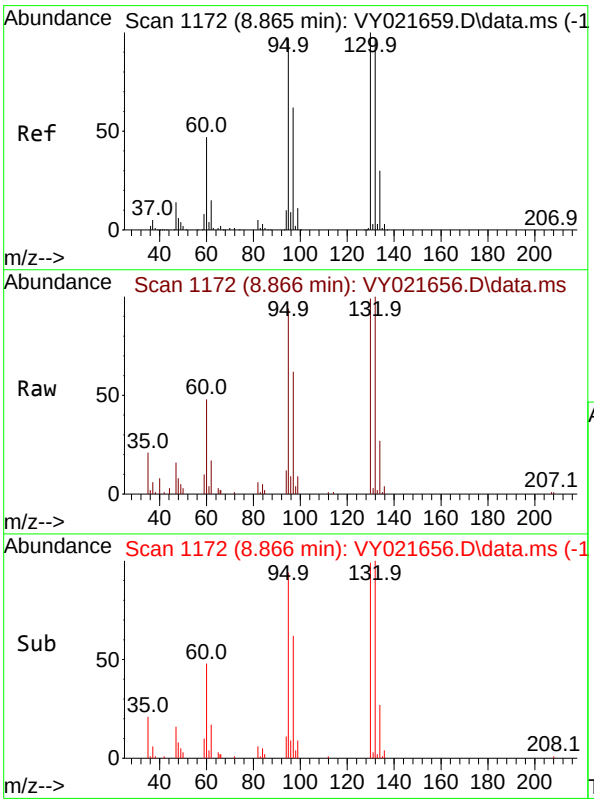
Ion	Ratio	Lower	Upper
43	100		
61	21.8	15.9	23.9
87	12.8	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

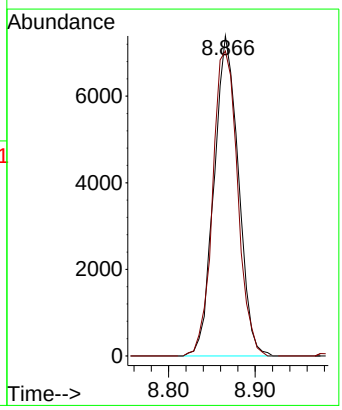
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

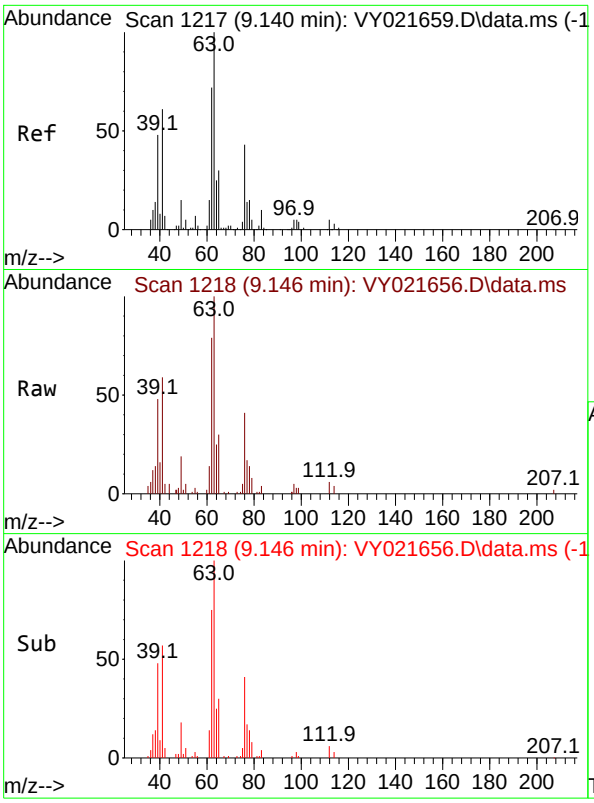


#44
Trichloroethene
Concen: 5.470 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:130 Resp: 14453

Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	194.8

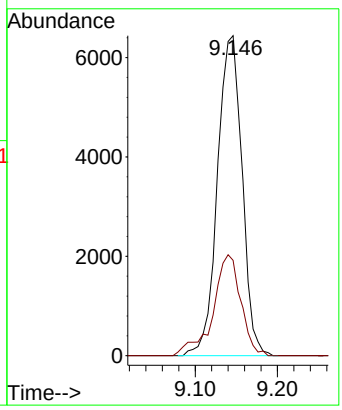




#45
1,2-Dichloropropane
Concen: 5.470 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 63 Resp: 1342

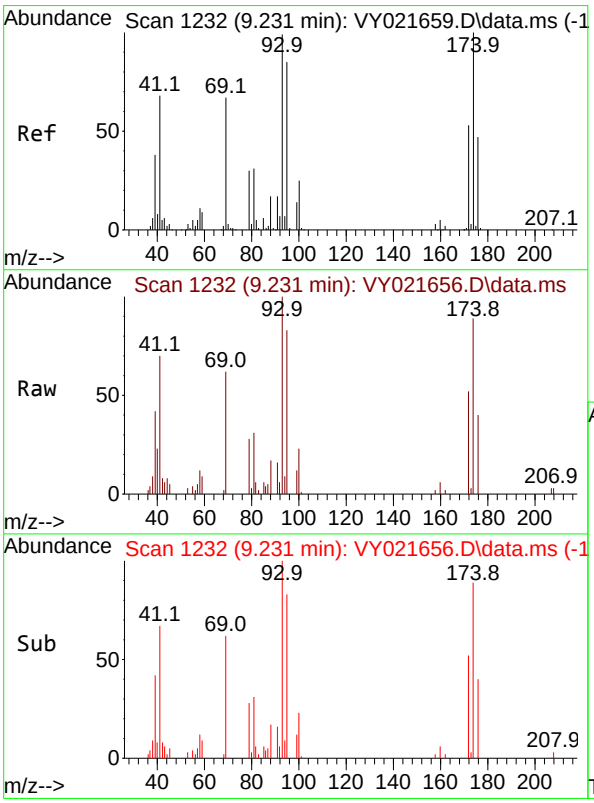
Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

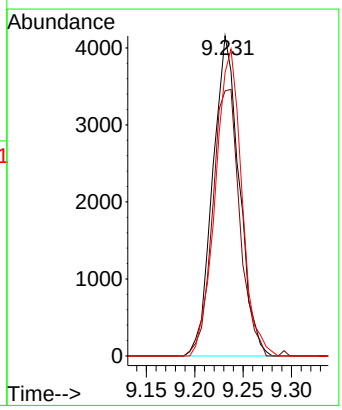
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

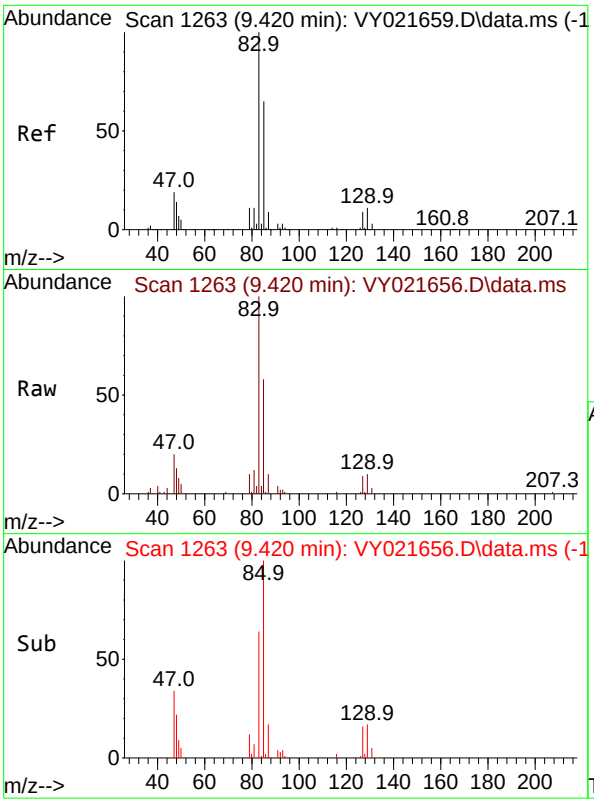


#46
Dibromomethane
Concen: 5.571 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 93 Resp: 7882

Ion	Ratio	Lower	Upper
93	100		
95	85.8	68.1	102.1
174	95.8	80.9	121.3

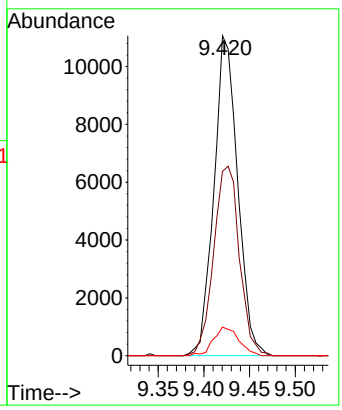




#47
Bromodichloromethane
Concen: 5.458 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 83 Resp: 2000

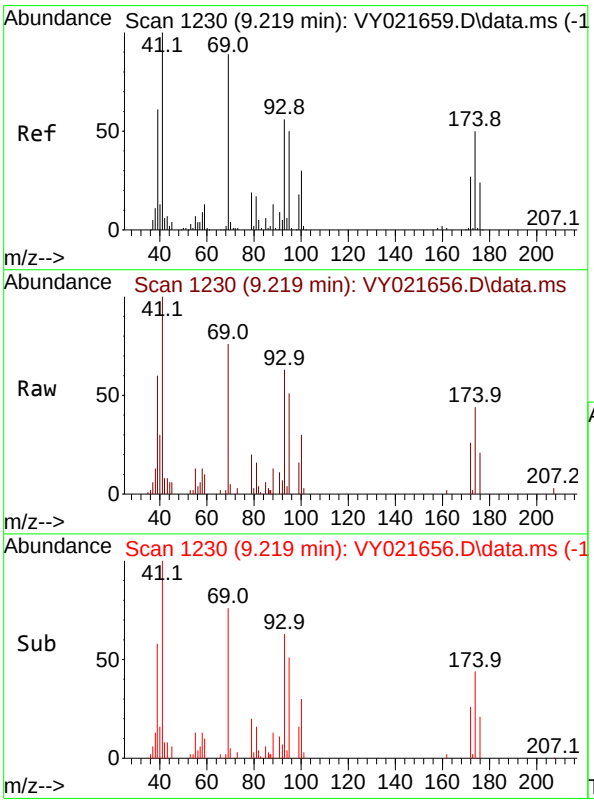
Ion	Ratio	Lower	Upper
83	100		
85	57.6	51.8	77.6
127	9.0	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

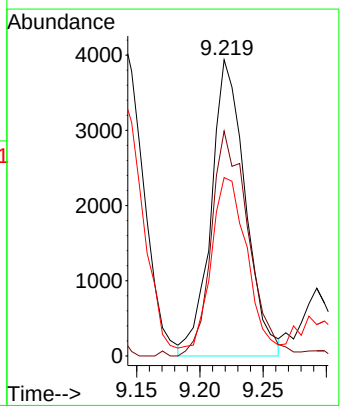
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

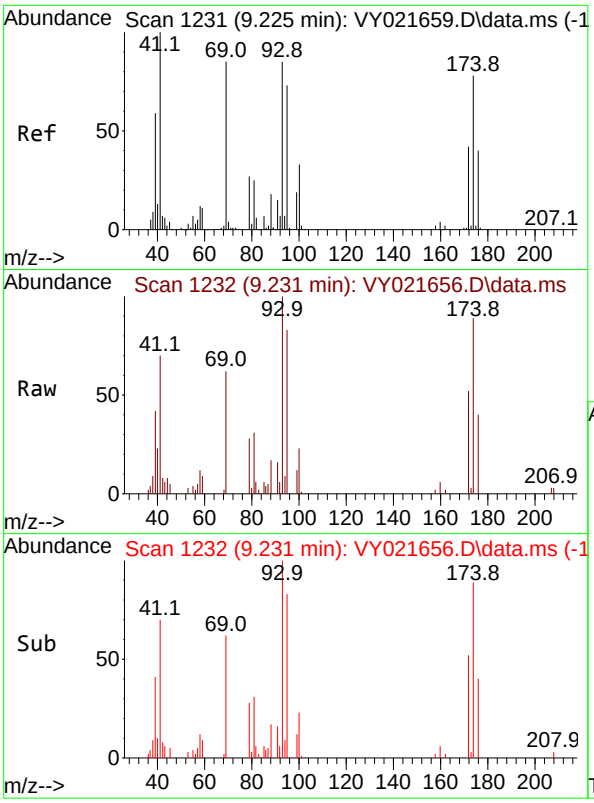


#48
Methyl methacrylate
Concen: 5.225 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 41 Resp: 7427

Ion	Ratio	Lower	Upper
41	100		
69	81.4	69.8	104.8
39	59.4	47.2	70.8

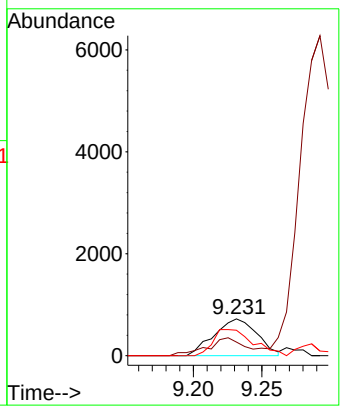




#49
1,4-Dioxane
Concen: 103.789 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 88 Resp: 157

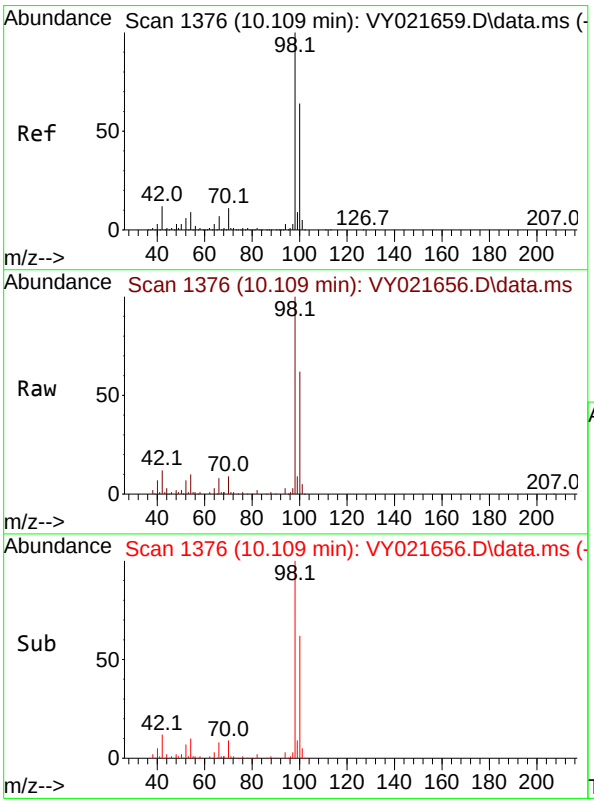
Ion	Ratio	Lower	Upper
88	100		
43	40.8	28.8	43.2
58	66.1	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

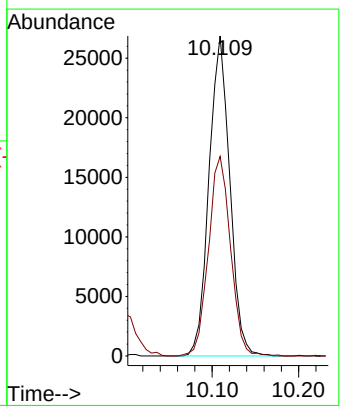
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

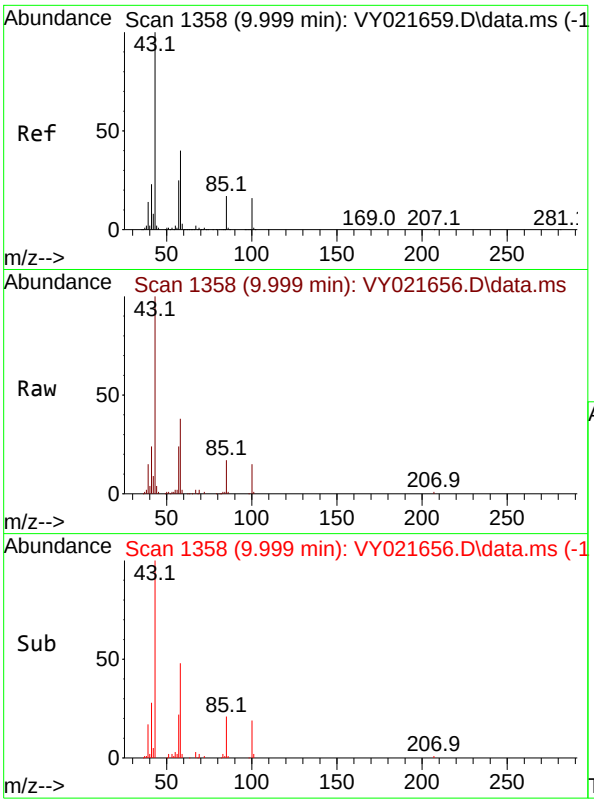


#50
Toluene-d8
Concen: 5.177 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 98 Resp: 44774

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.1	78.1

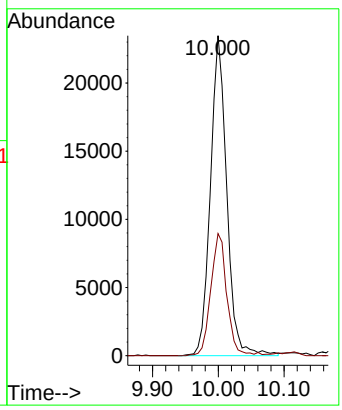




#51
4-Methyl-2-Pentanone
Concen: 25.191 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 43 Resp: 4060

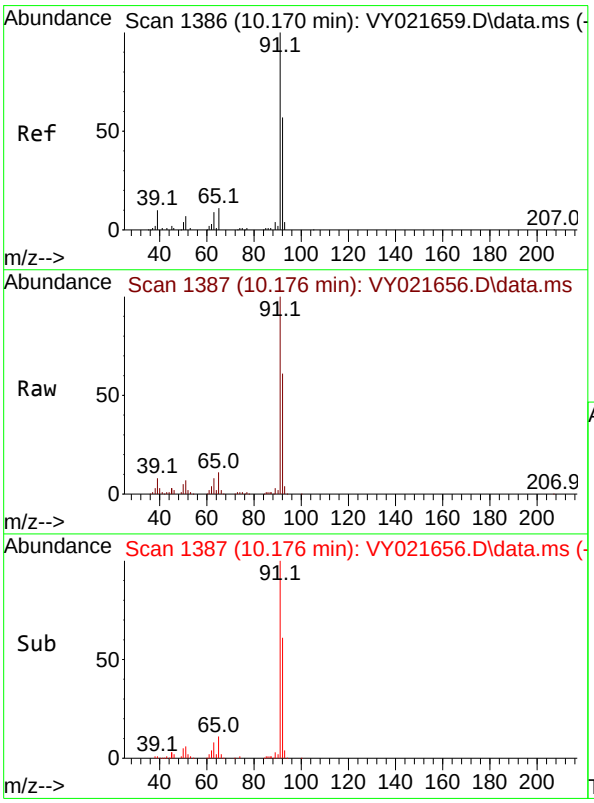
Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

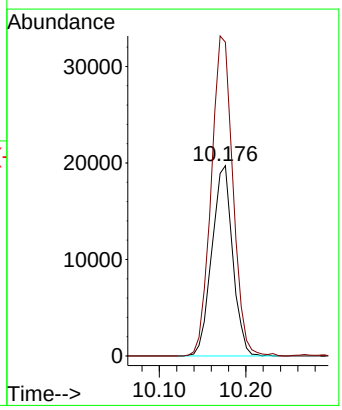
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

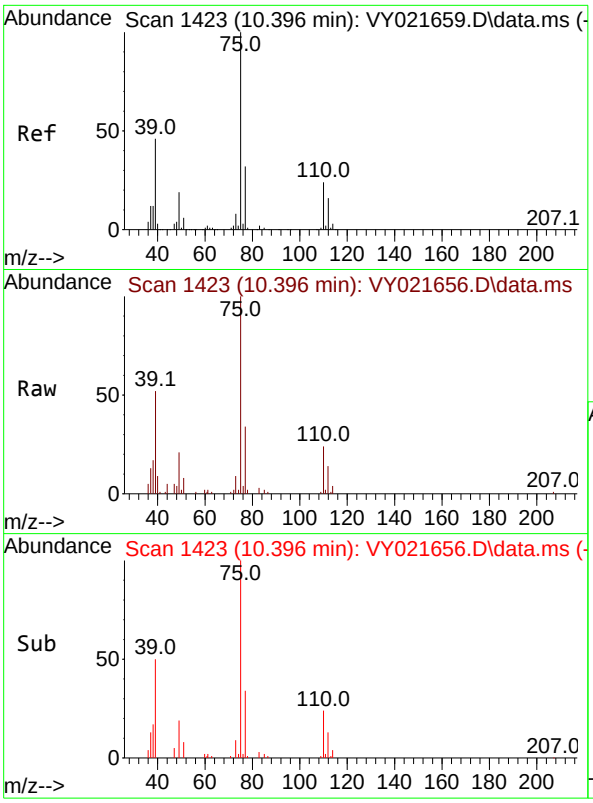


#52
Toluene
Concen: 5.093 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 92 Resp: 32954

Ion	Ratio	Lower	Upper
92	100		
91	175.0	138.6	207.8

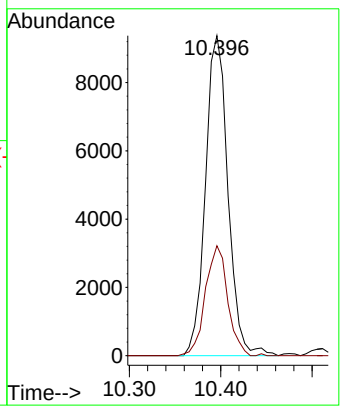




#53
t-1,3-Dichloropropene
Concen: 4.909 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 75 Resp: 1598

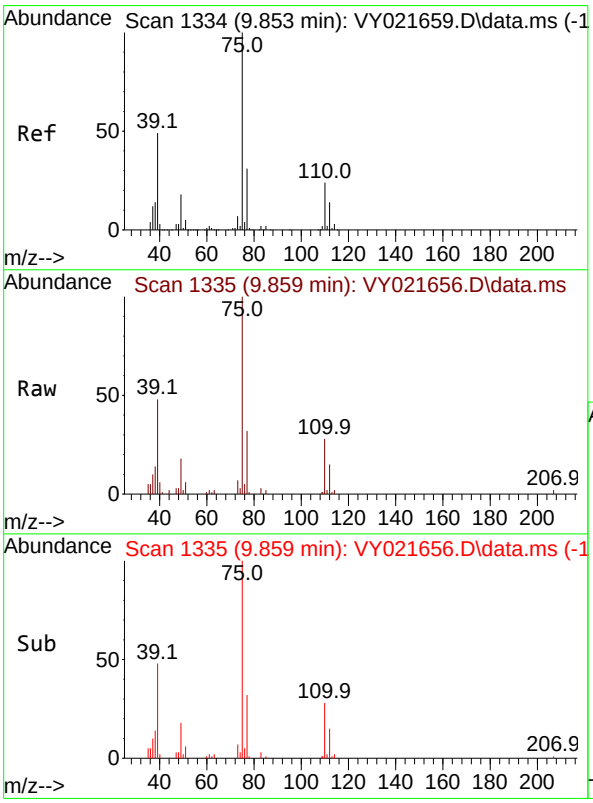
Ion	Ratio	Lower	Upper
75	100		
77	34.4	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

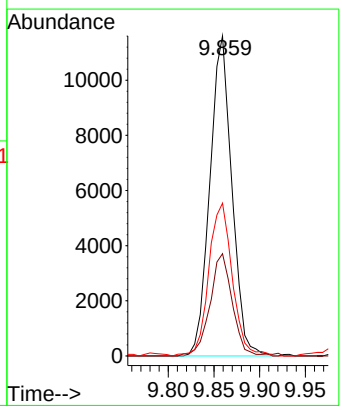
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

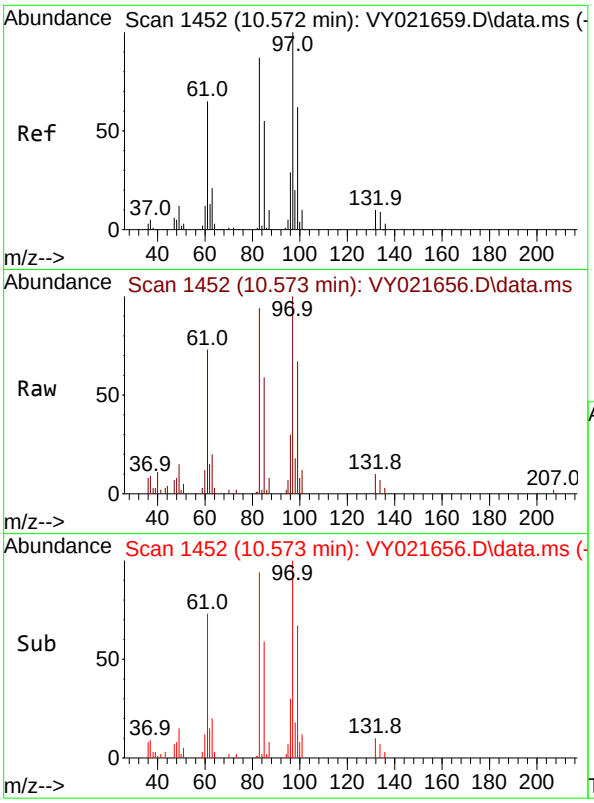


#54
cis-1,3-Dichloropropene
Concen: 5.049 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 75 Resp: 19395

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.9	37.3
39	47.7	39.2	58.8

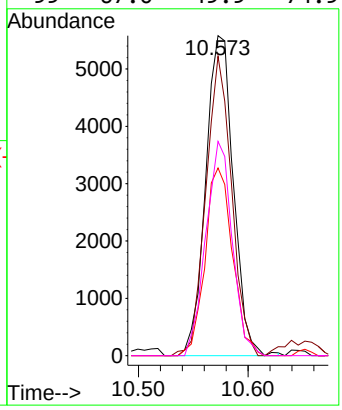




#55
1,1,2-Trichloroethane
Concen: 5.384 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 97 Resp: 980

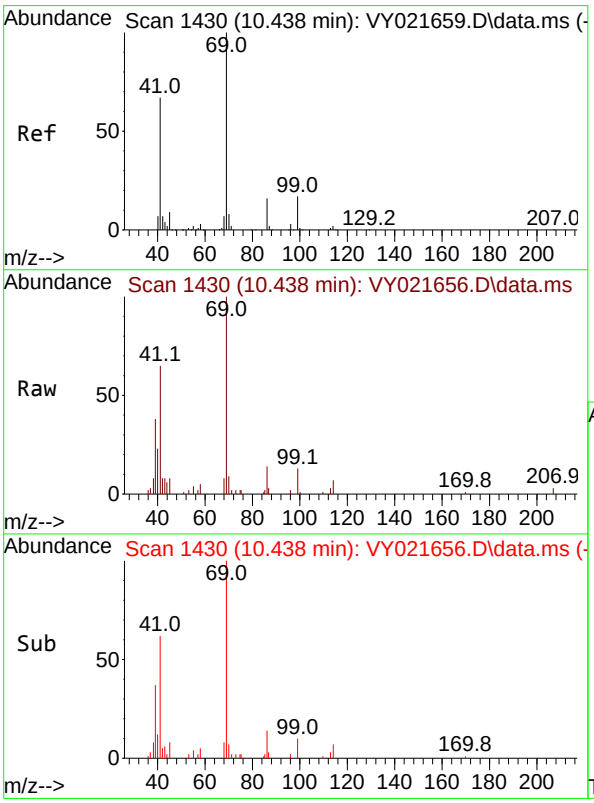
Ion	Ratio	Lower	Upper
97	100		
83	92.2	69.5	104.3
85	58.7	43.9	65.9
99	67.0	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

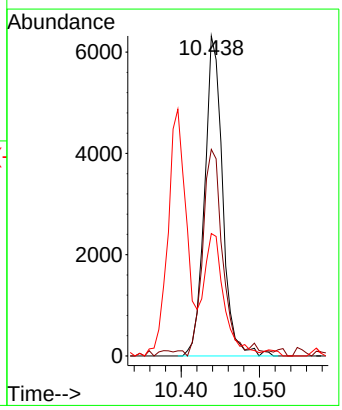
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

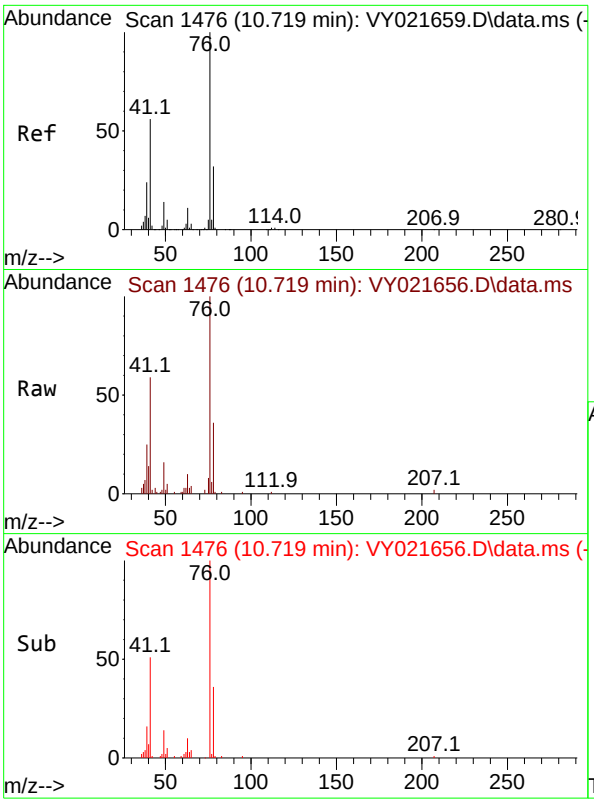


#56
Ethyl methacrylate
Concen: 4.327 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 69 Resp: 10060

Ion	Ratio	Lower	Upper
69	100		
41	71.3	53.8	80.6
39	42.5	29.6	44.4

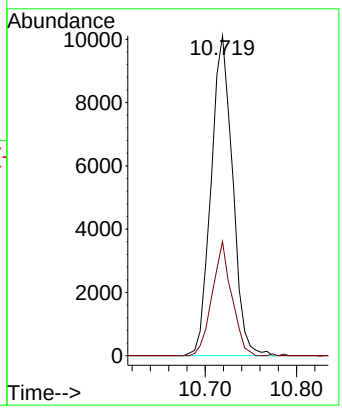




#57
1,3-Dichloropropane
Concen: 5.258 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 76 Resp: 1653

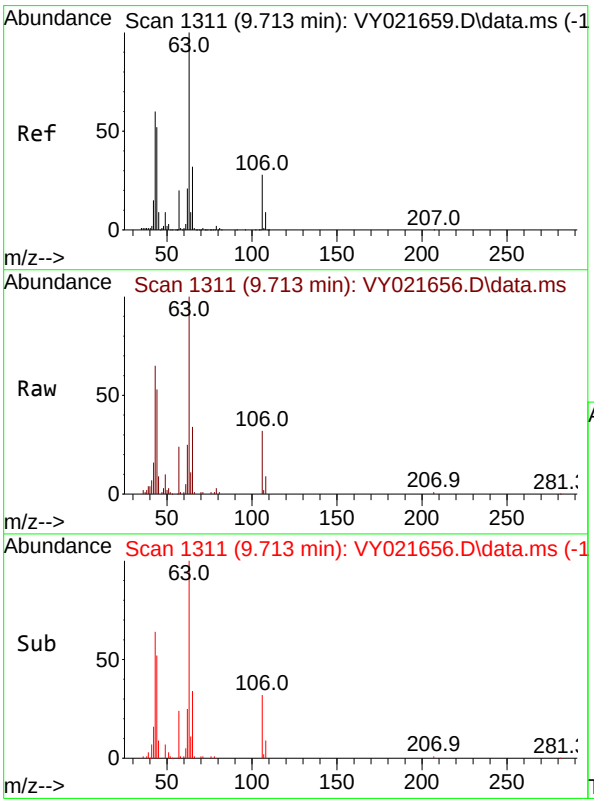
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

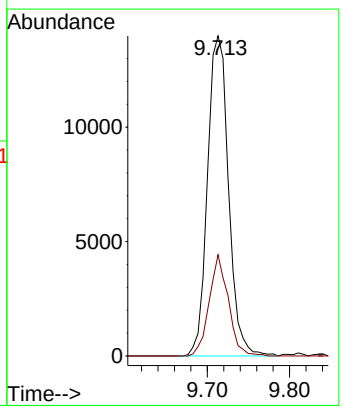
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

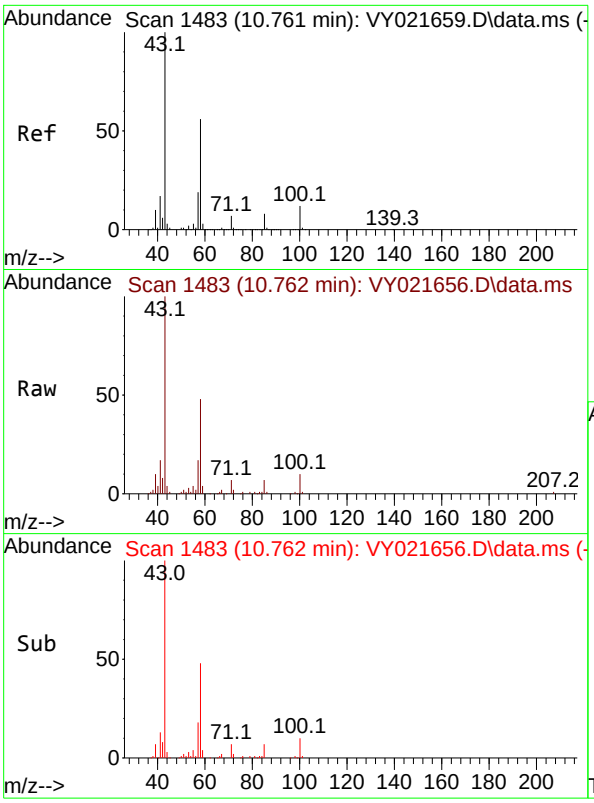


#58
2-Chloroethyl Vinyl ether
Concen: 21.959 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 63 Resp: 24903

Ion	Ratio	Lower	Upper
63	100		
106	28.8	22.4	33.6





#59
2-Hexanone
Concen: 25.145 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

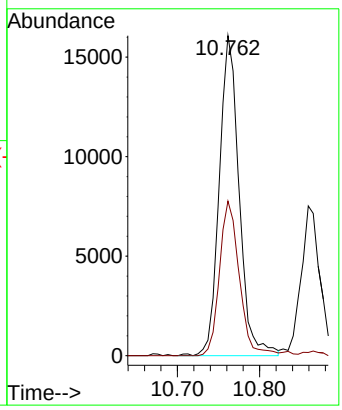
Tgt Ion: 43 Resp: 2699

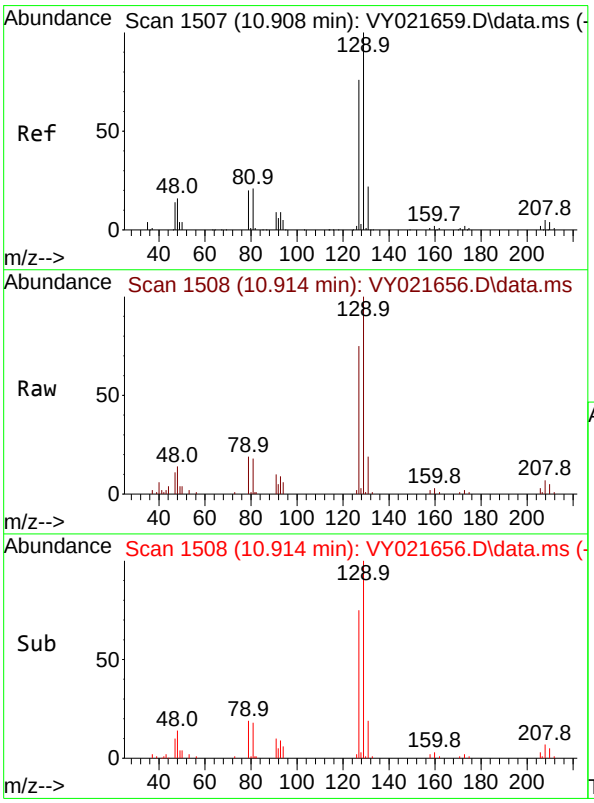
Ion	Ratio	Lower	Upper
43	100		
58	48.9	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

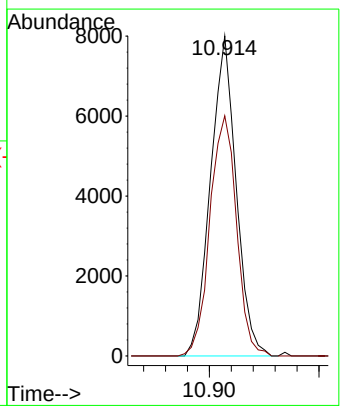


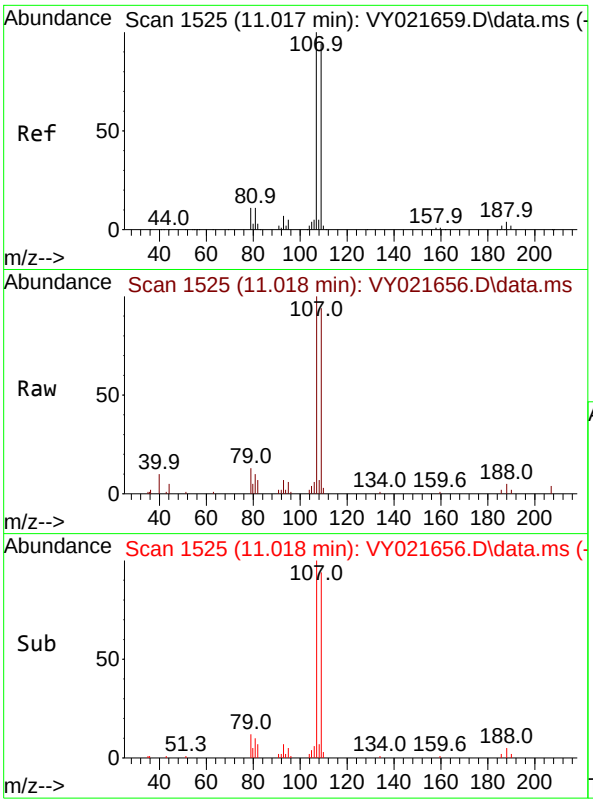


#60
Dibromochloromethane
Concen: 5.231 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:129 Resp: 13002

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	115.7

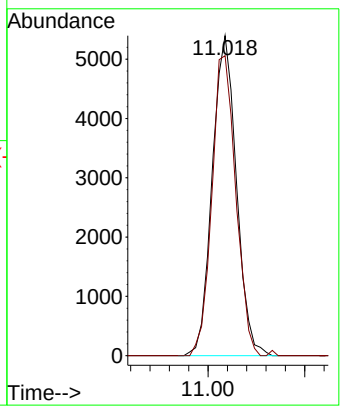




#61
1,2-Dibromoethane
Concen: 5.472 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:107 Resp: 934

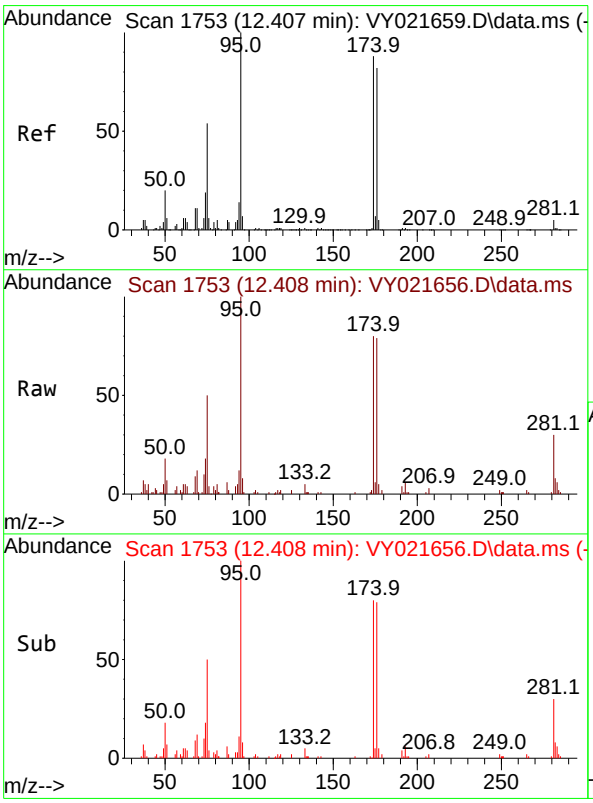
Ion	Ratio	Lower	Upper
107	100		
109	92.9	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

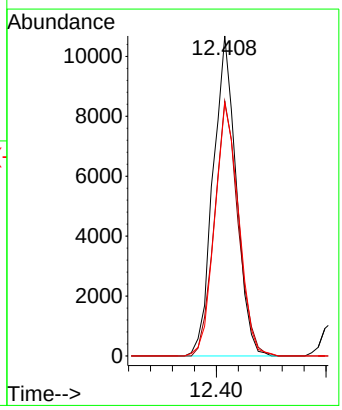
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

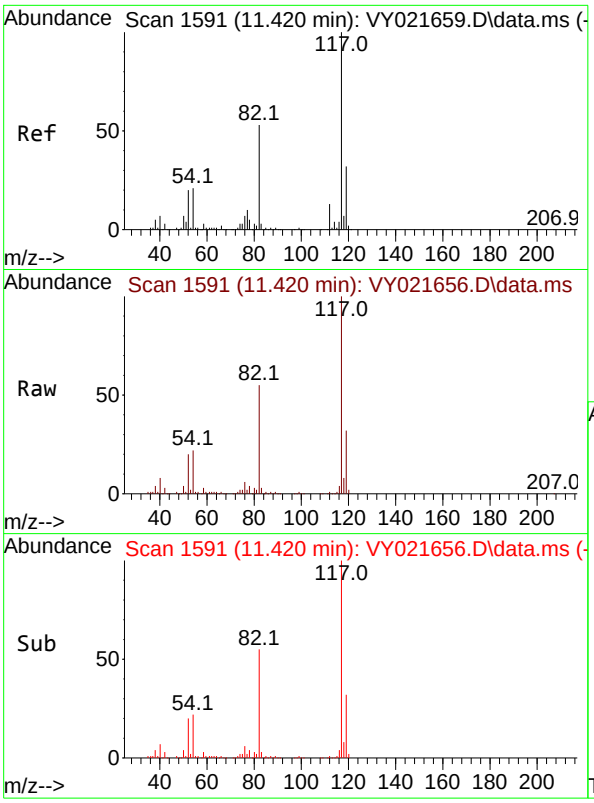


#62
4-Bromofluorobenzene
Concen: 5.352 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 95 Resp: 15657

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	170.8
176	81.7	0.0	162.0





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

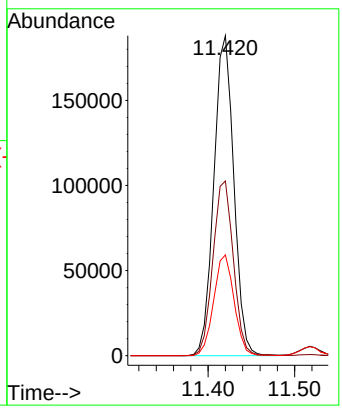
Tgt Ion:117 Resp: 30138

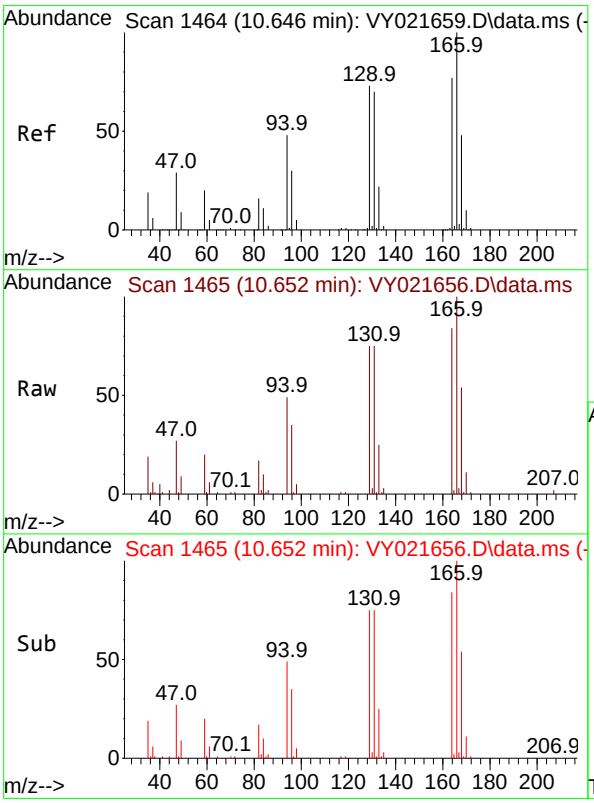
Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.8	64.2
119	31.5	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

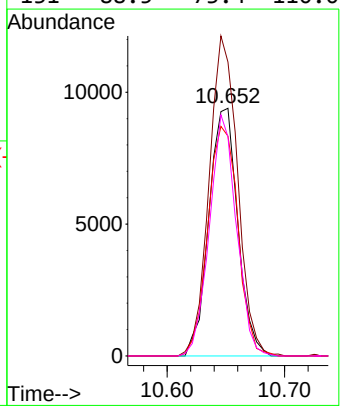


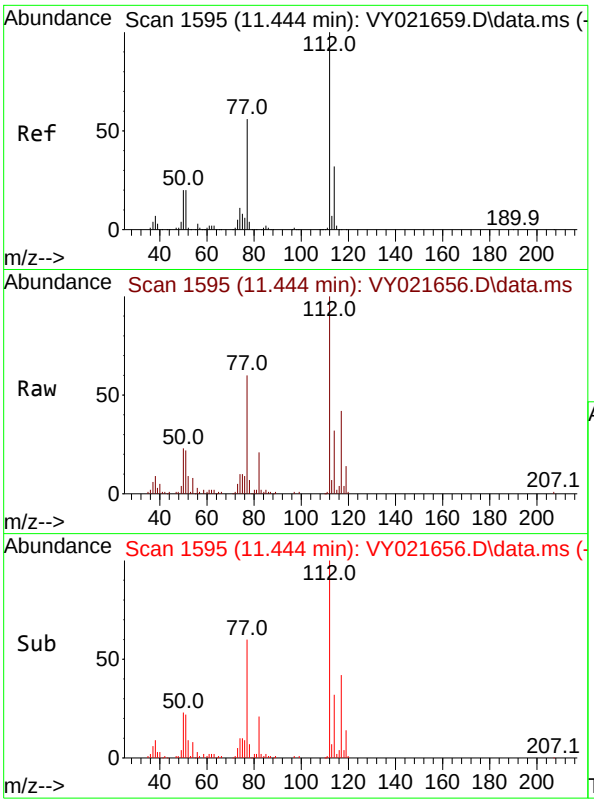


#64
Tetrachloroethene
Concen: 5.860 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:164 Resp: 16085

Ion	Ratio	Lower	Upper
164	100		
166	118.7	104.6	156.8
129	88.8	76.6	114.8
131	88.5	73.4	110.0

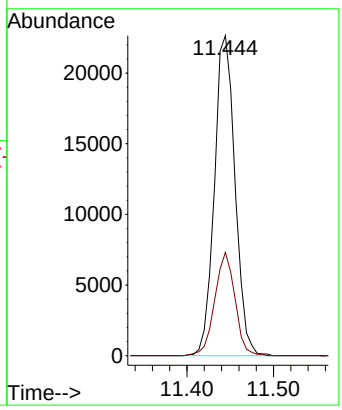




#65
Chlorobenzene
Concen: 5.429 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:112 Resp: 3750

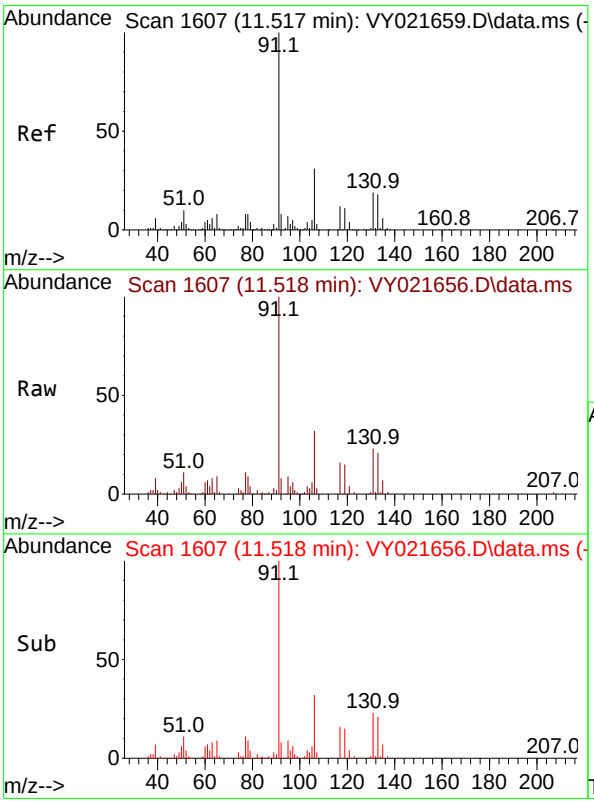
Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

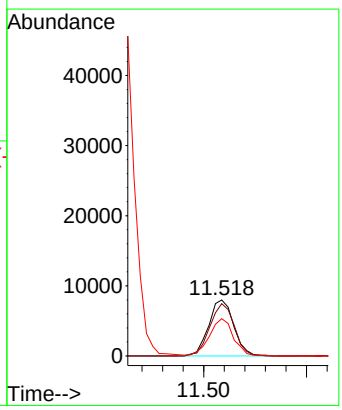
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

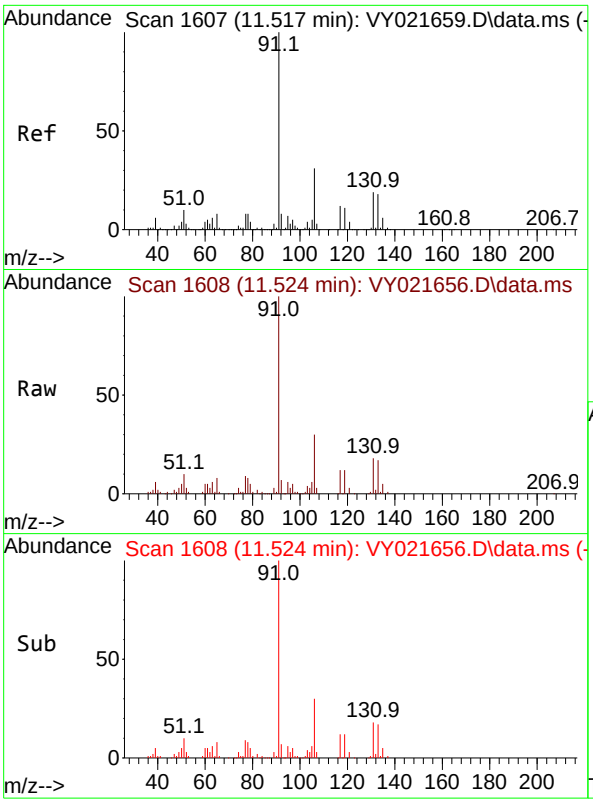


#66
1,1,1,2-Tetrachloroethane
Concen: 5.506 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:131 Resp: 13496

Ion	Ratio	Lower	Upper
131	100		
133	91.0	47.3	141.8
119	64.0	31.6	95.0

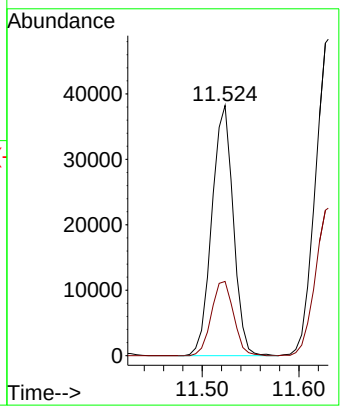




#67
Ethyl Benzene
Concen: 4.959 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 91 Resp: 5875

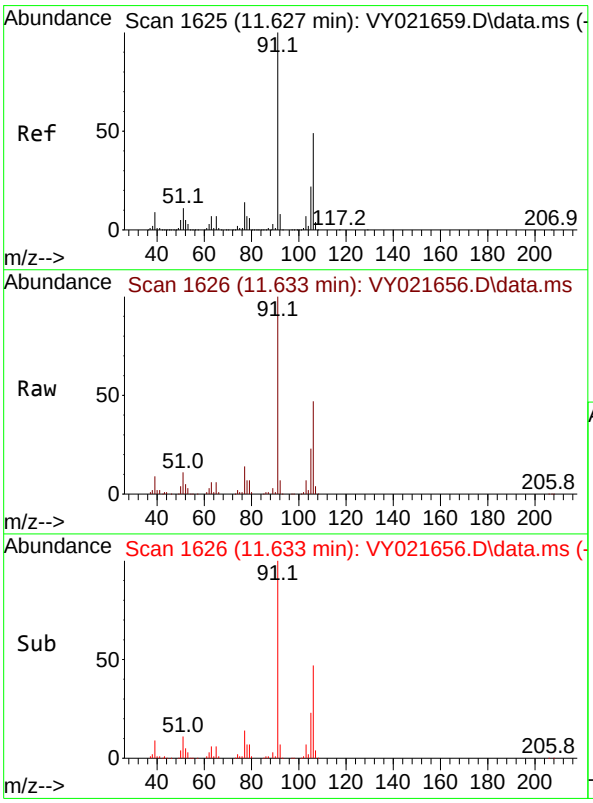
Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

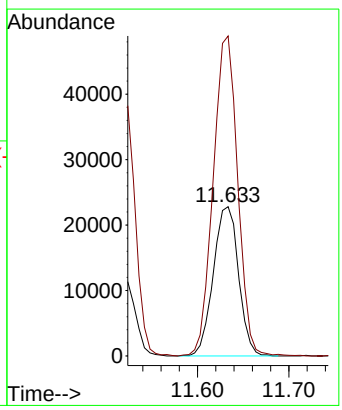
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

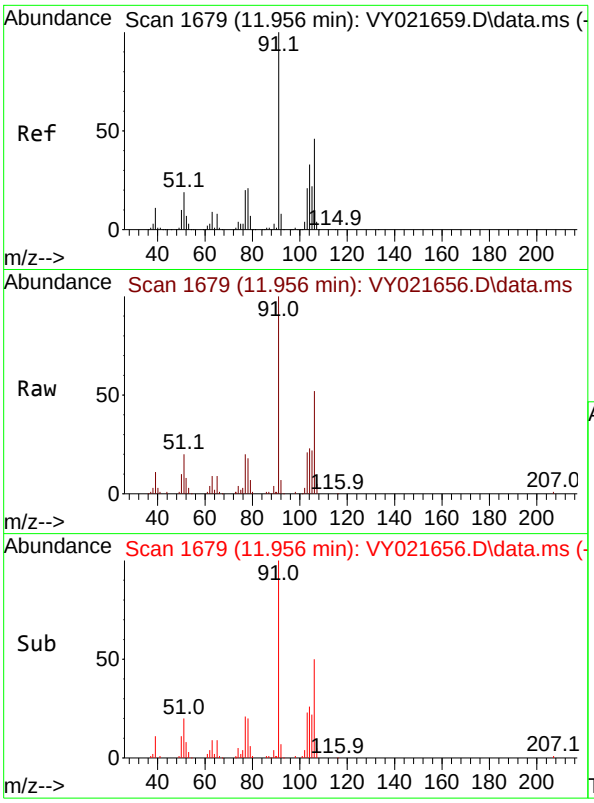


#68
m/p-Xylenes
Concen: 9.652 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:106 Resp: 43785

Ion	Ratio	Lower	Upper
106	100		
91	208.3	162.4	243.6

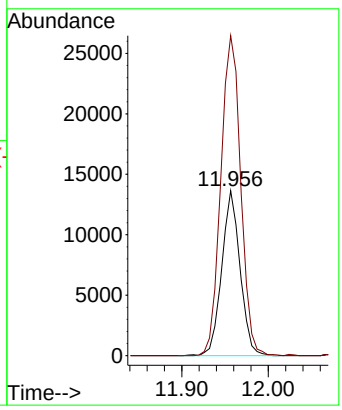




#69
o-Xylene
Concen: 4.786 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:106 Resp: 2004

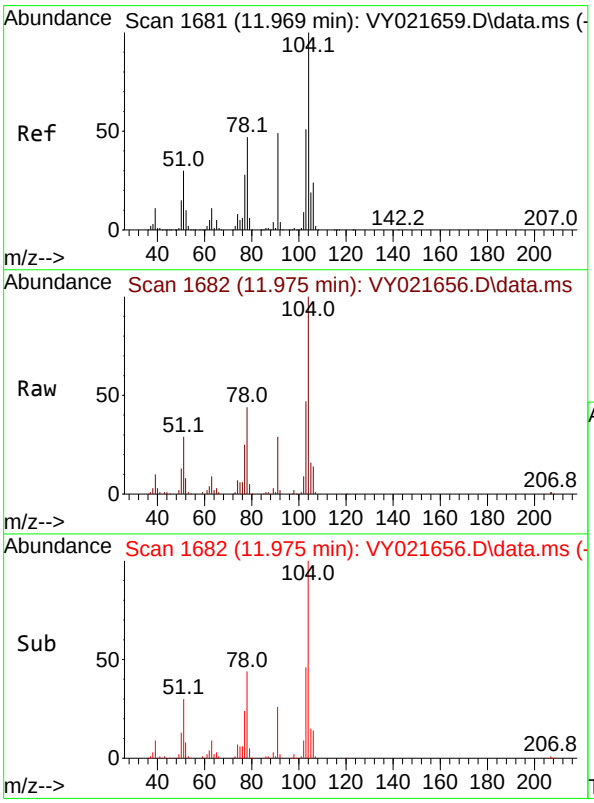
Ion	Ratio	Lower	Upper
106	100		
91	210.7	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

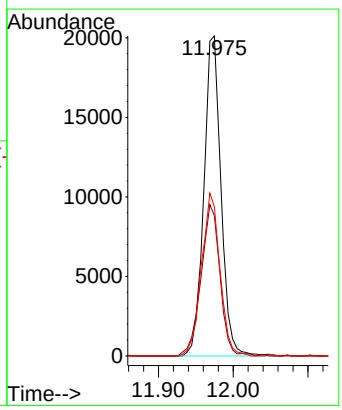
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

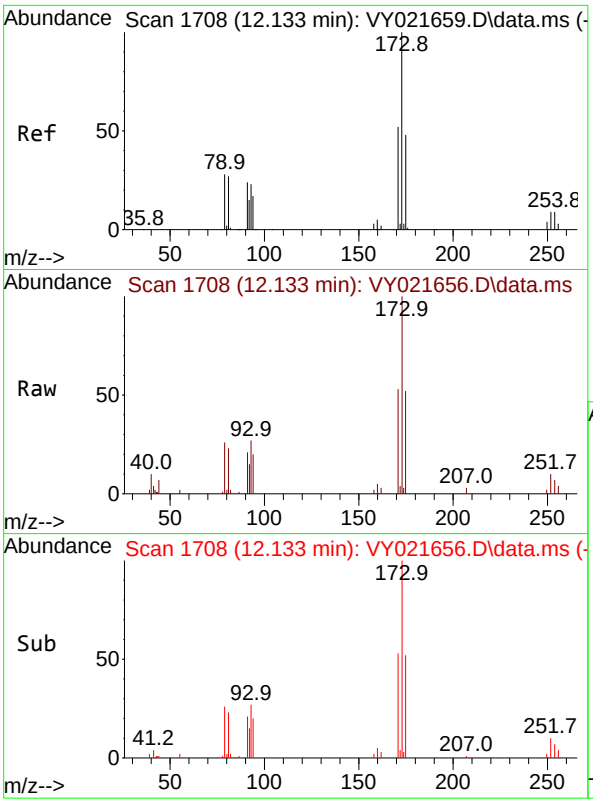


#70
Styrene
Concen: 4.594 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:104 Resp: 32075

Ion	Ratio	Lower	Upper
104	100		
78	52.0	40.8	61.2
103	54.8	44.2	66.2

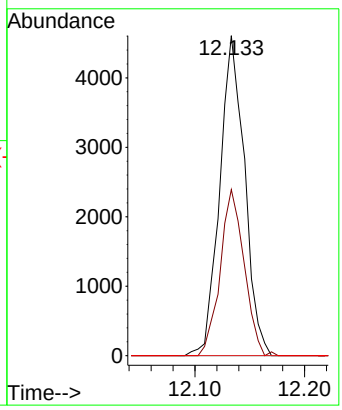




#71
Bromoform
Concen: 5.187 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:173 Resp: 725

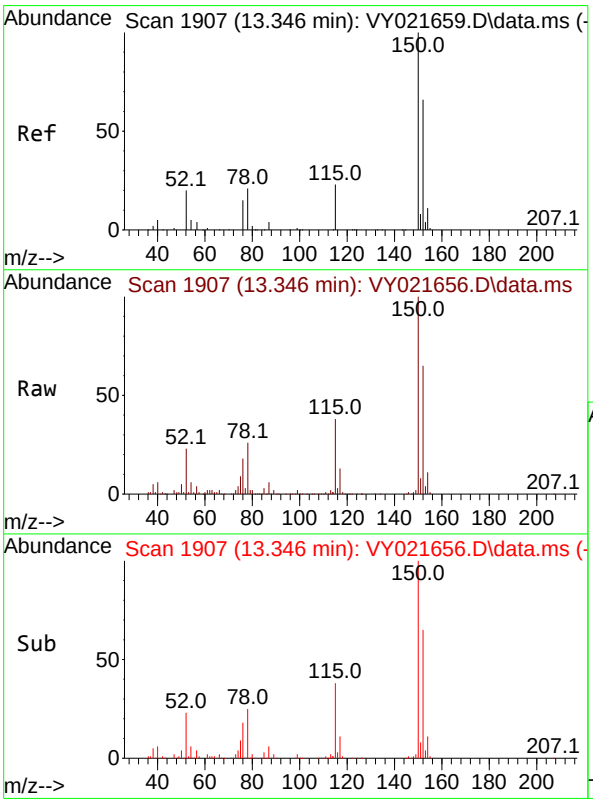
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.3	73.0
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

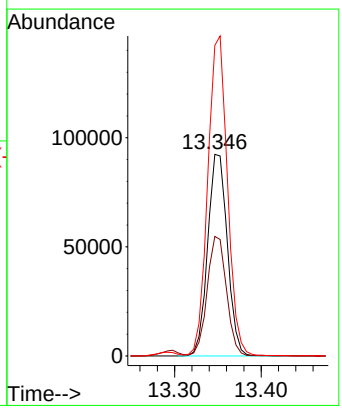
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

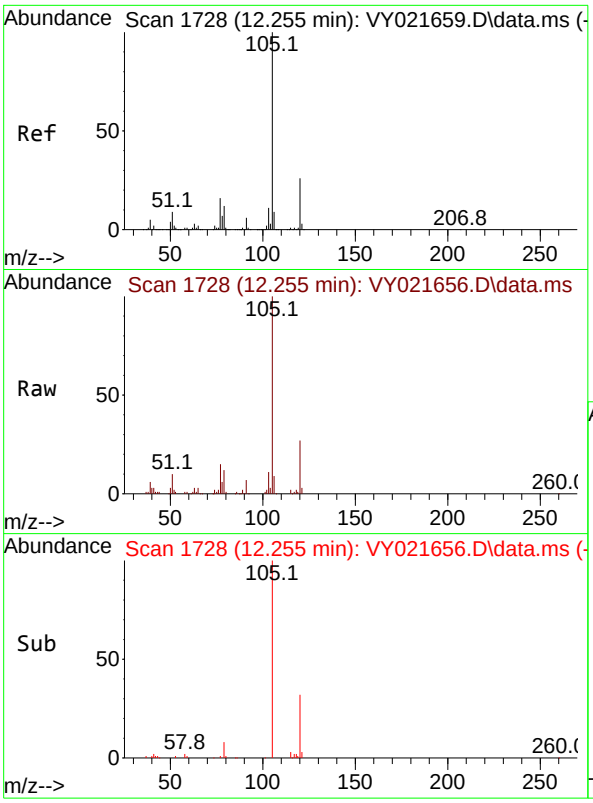


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:152 Resp: 145682

Ion	Ratio	Lower	Upper
152	100		
115	58.0	28.8	86.5
150	158.9	0.0	348.4

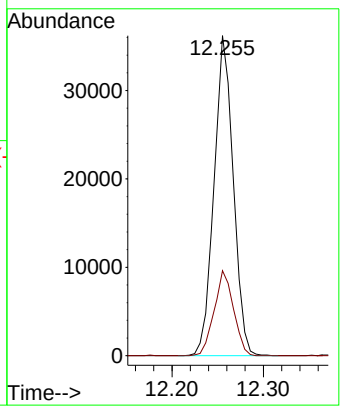




#73
Isopropylbenzene
Concen: 4.885 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:105 Resp: 5286

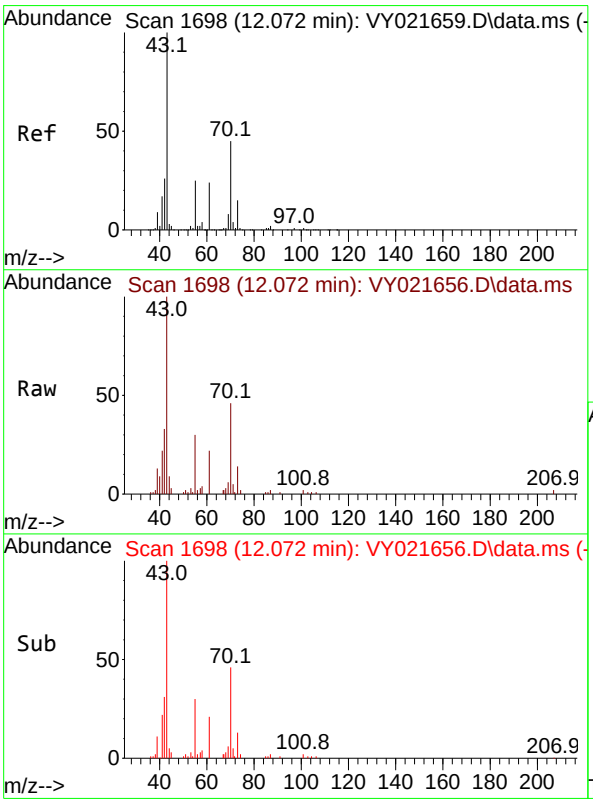
Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

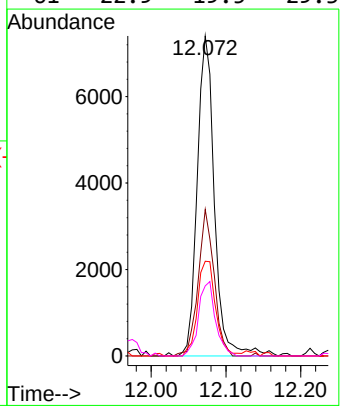
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

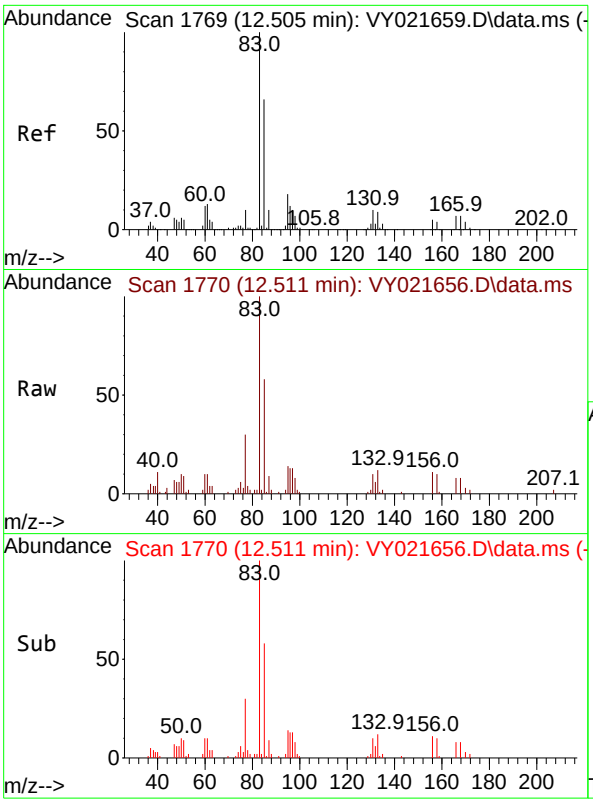


#74
N-amyl acetate
Concen: 4.660 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 43 Resp: 11835

Ion	Ratio	Lower	Upper
43	100		
70	42.3	34.7	52.1
55	31.4	21.2	31.8
61	22.9	19.5	29.3





#75
1,1,2,2-Tetrachloroethane
Concen: 5.723 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

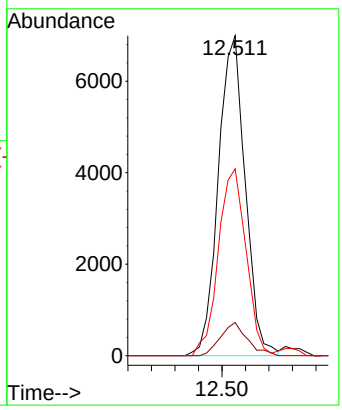
Tgt Ion: 83 Resp: 1113

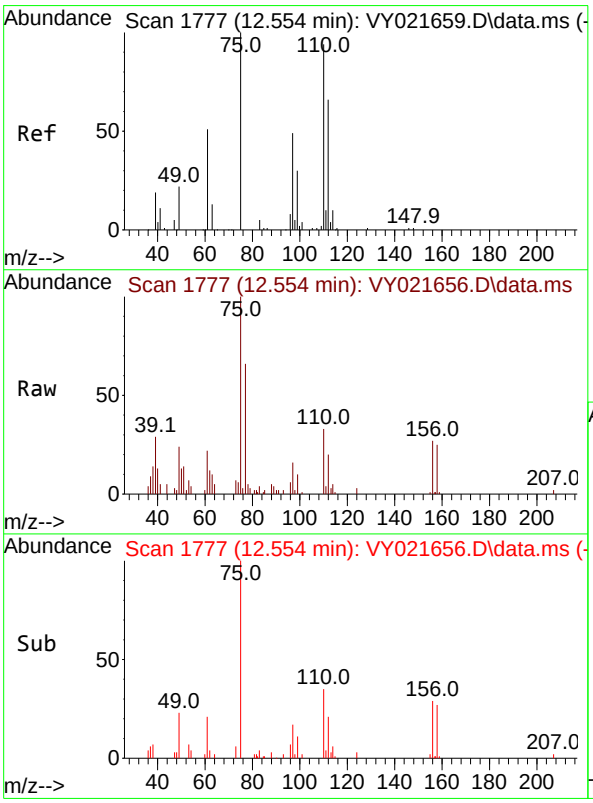
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	60.1	32.3	96.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

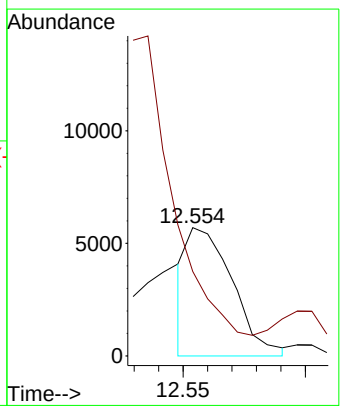


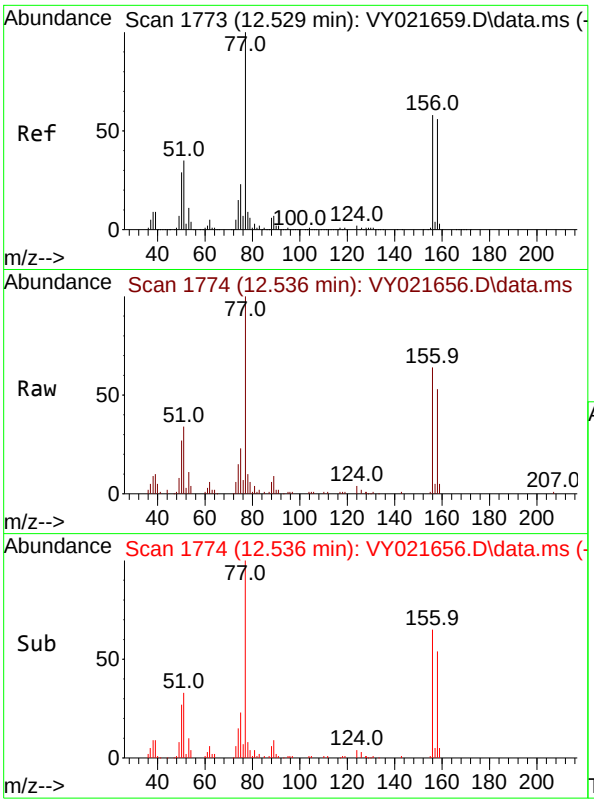


#76
1,2,3-Trichloropropane
Concen: 5.106 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 75 Resp: 7373

Ion	Ratio	Lower	Upper
75	100		
77	351.5	0.0	0.0#

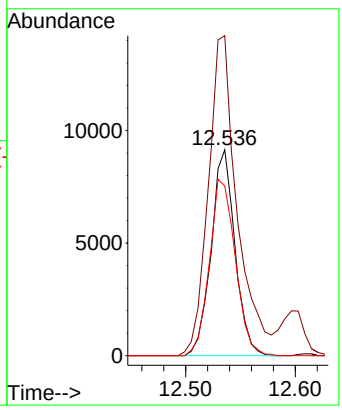




#77
Bromobenzene
Concen: 5.305 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:156 Resp: 1378

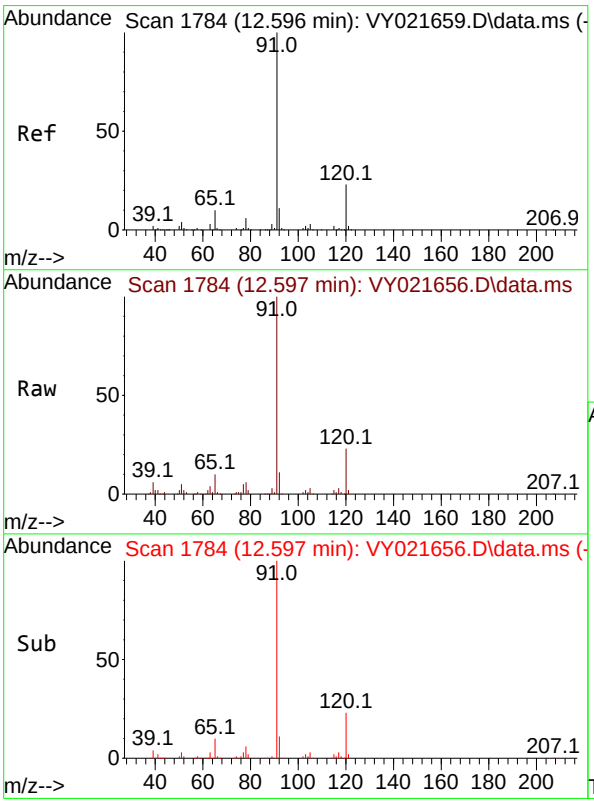
Ion	Ratio	Lower	Upper
156	100		
77	188.0	92.8	278.3
158	93.2	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

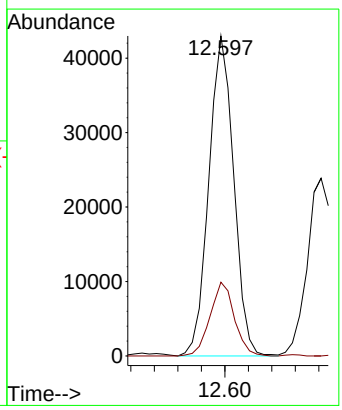
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

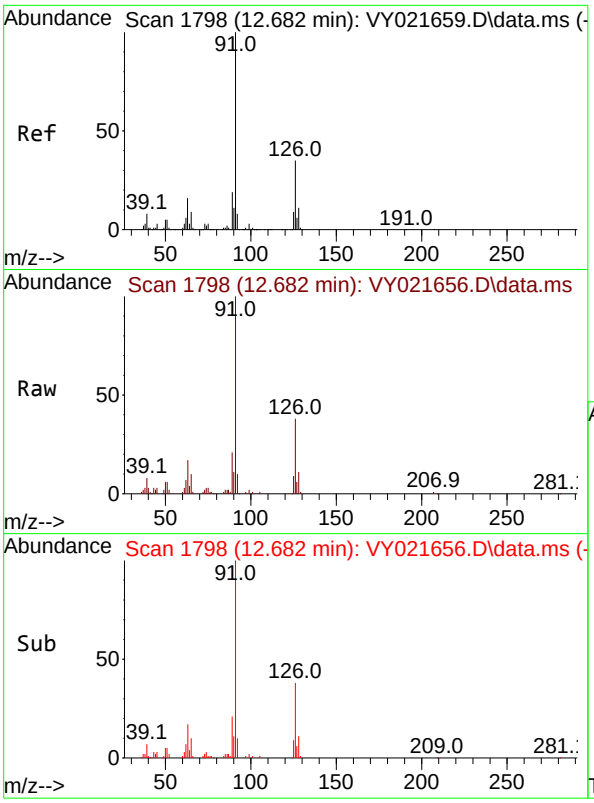


#78
n-propylbenzene
Concen: 4.868 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 91 Resp: 63324

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.9

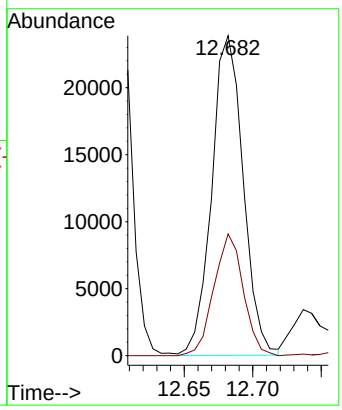




#79
2-Chlorotoluene
Concen: 5.044 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 91 Resp: 3810

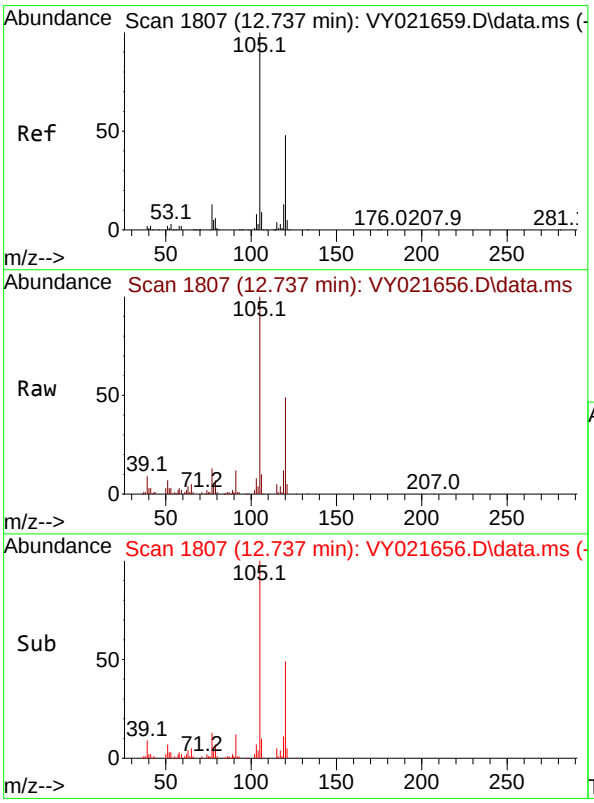
Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

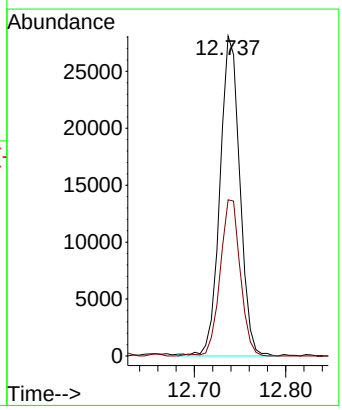
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

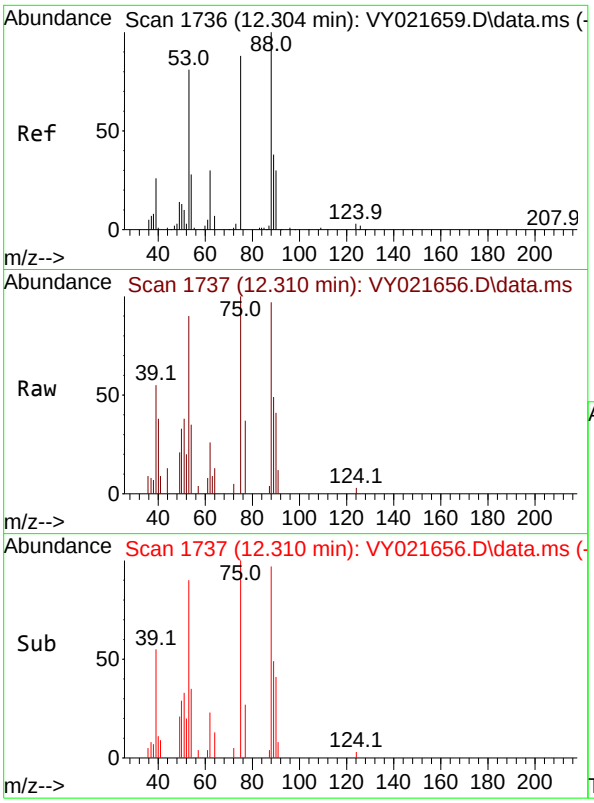


#80
1,3,5-Trimethylbenzene
Concen: 4.806 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:105 Resp: 42499

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.5	73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 4.823 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

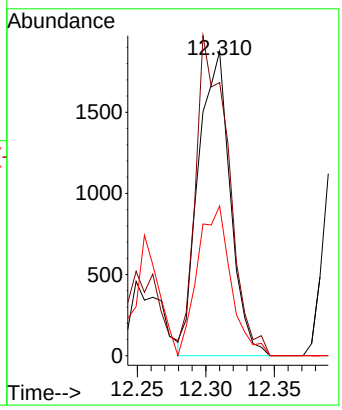
Tgt Ion: 75 Resp: 302

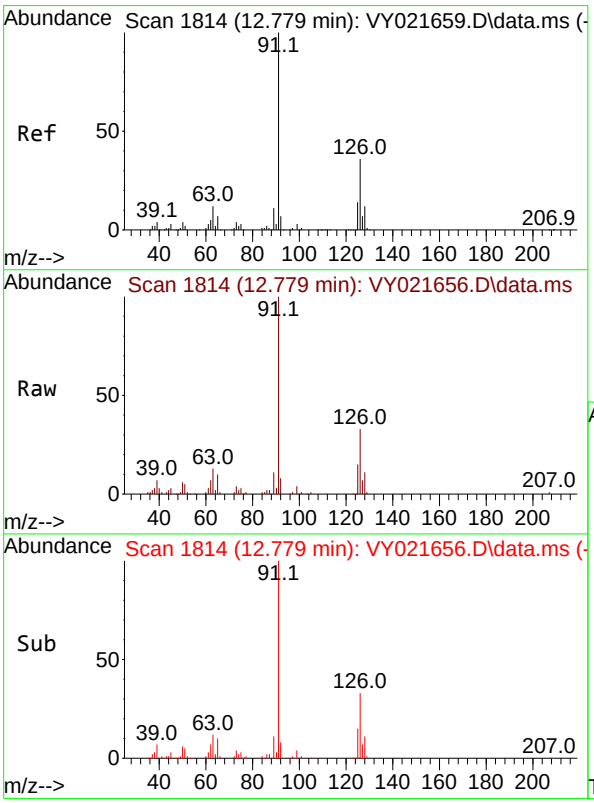
Ion	Ratio	Lower	Upper
75	100		
53	107.4	76.1	114.1
89	51.7	36.2	54.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

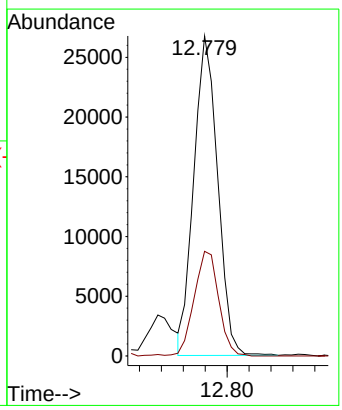


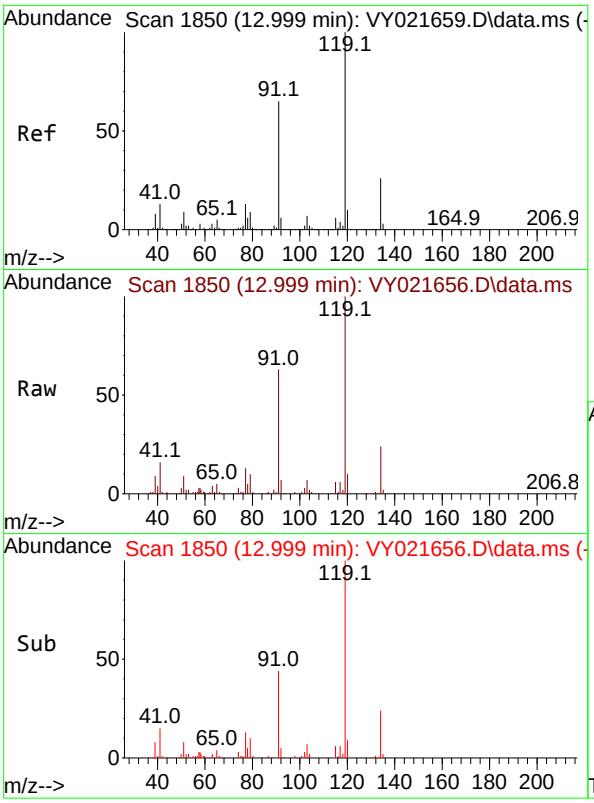


#82
4-Chlorotoluene
Concen: 5.119 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 91 Resp: 40326

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

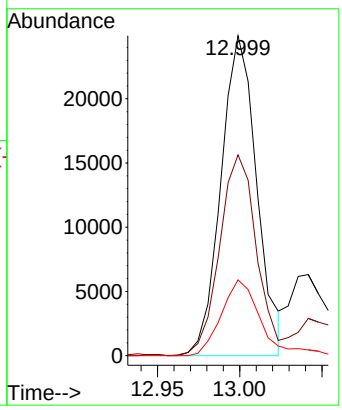




#83
tert-Butylbenzene
Concen: 4.801 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:119 Resp: 3781

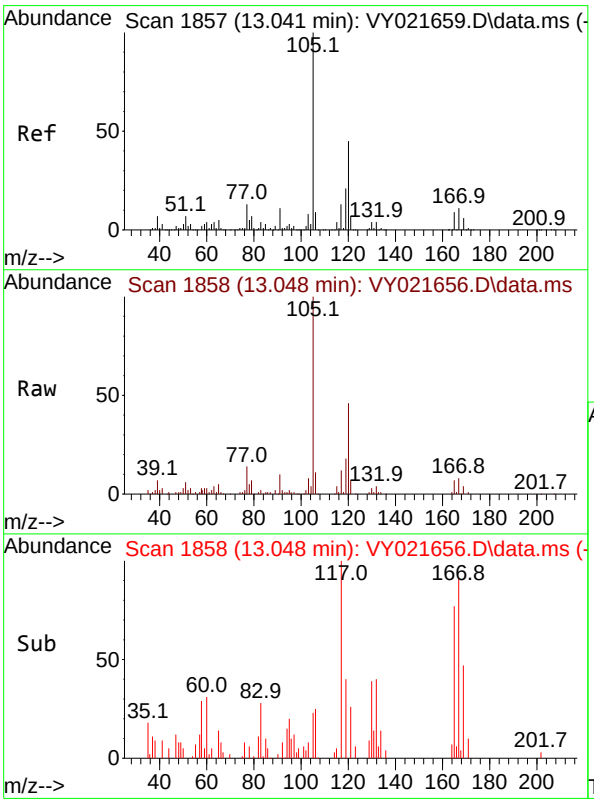
Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.6	97.7
134	26.1	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

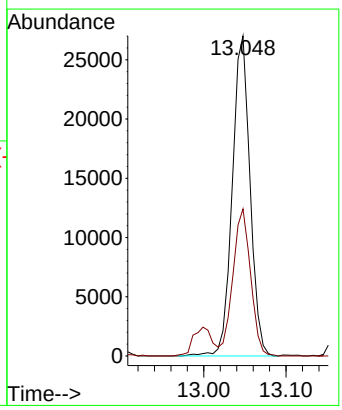
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

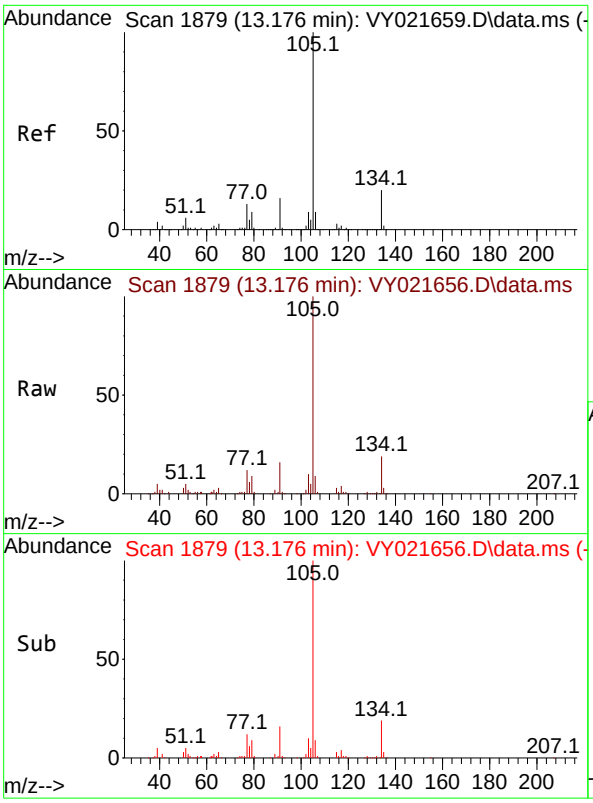


#84
1,2,4-Trimethylbenzene
Concen: 4.639 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:105 Resp: 40547

Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.7	68.1

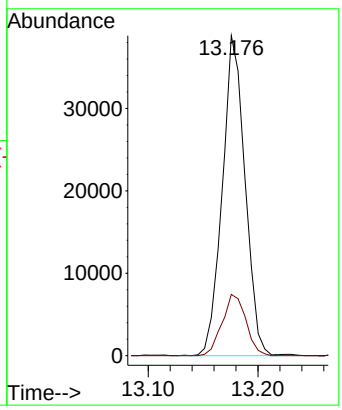




#85
sec-Butylbenzene
Concen: 4.858 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:105 Resp: 5591

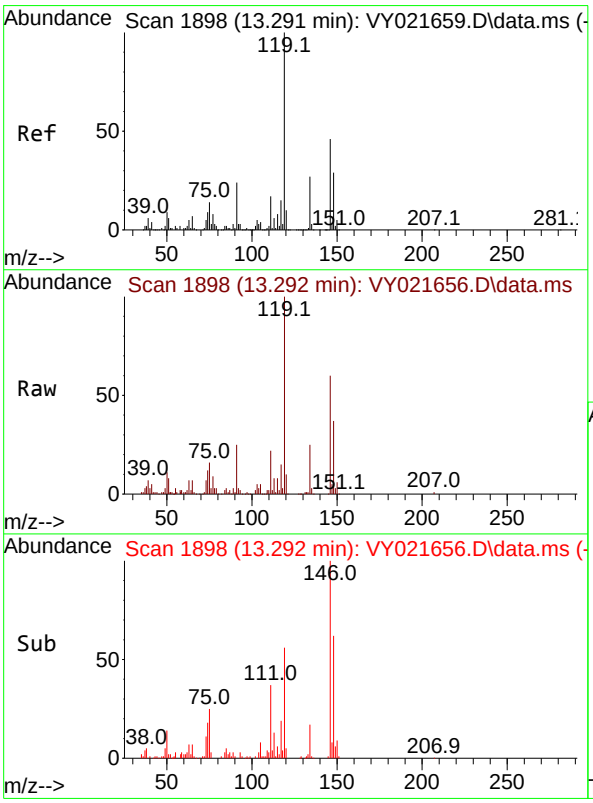
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

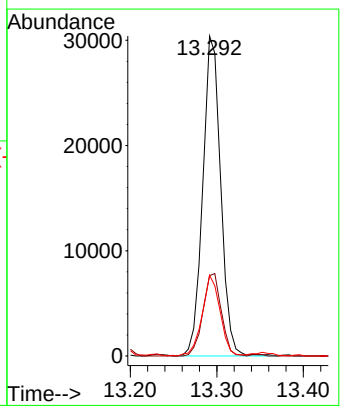
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

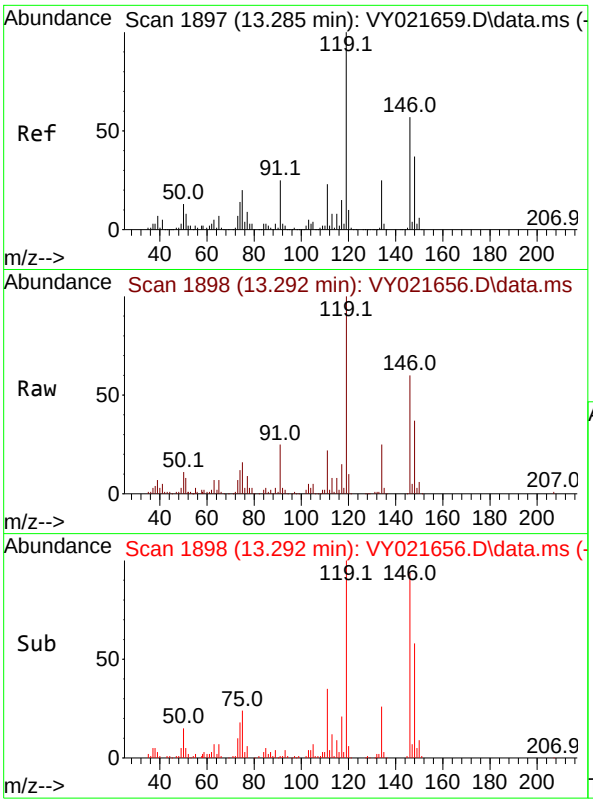


#86
p-Isopropyltoluene
Concen: 4.595 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:119 Resp: 43714

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.5
91	25.2	12.0	36.0

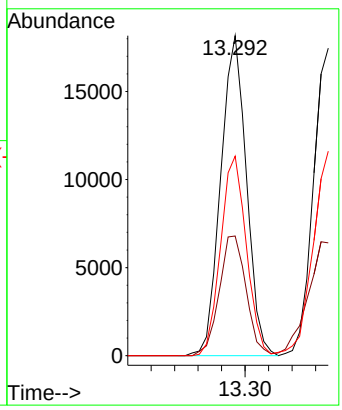




#87
1,3-Dichlorobenzene
Concen: 5.393 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:146 Resp: 2760

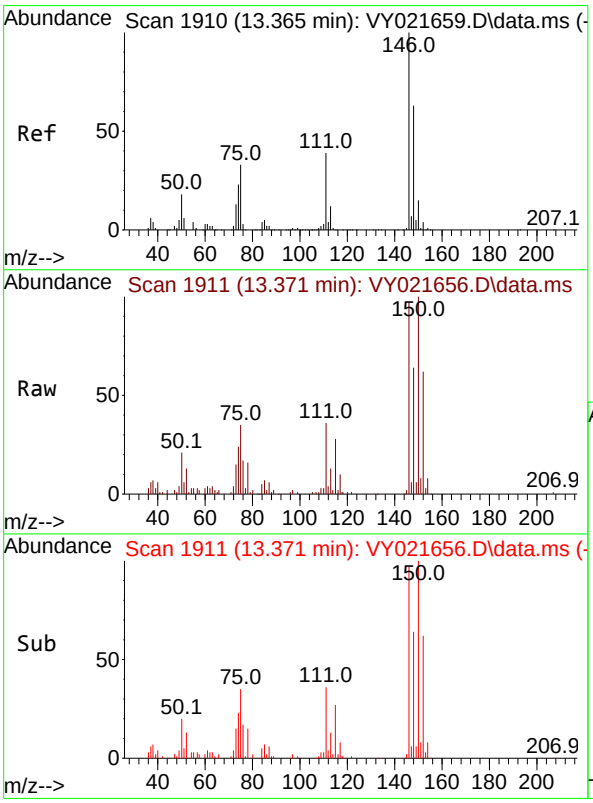
Ion	Ratio	Lower	Upper
146	100		
111	39.1	20.0	60.0
148	62.4	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

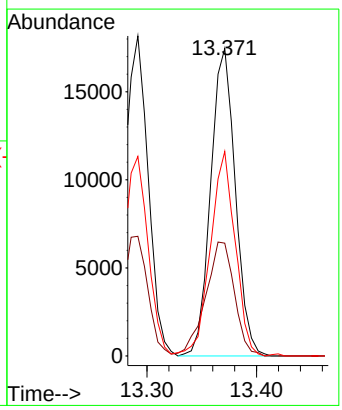
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

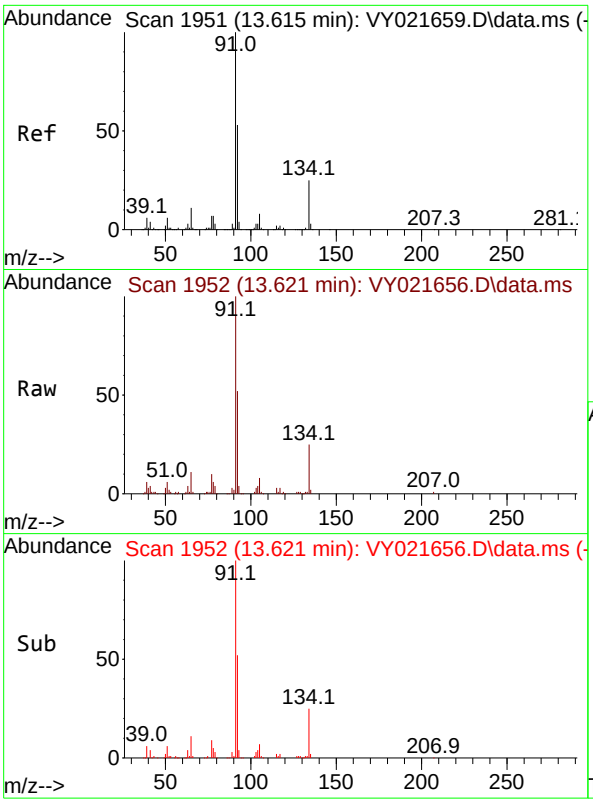


#88
1,4-Dichlorobenzene
Concen: 5.405 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:146 Resp: 27332

Ion	Ratio	Lower	Upper
146	100		
111	43.4	19.1	57.1
148	66.9	31.5	94.5

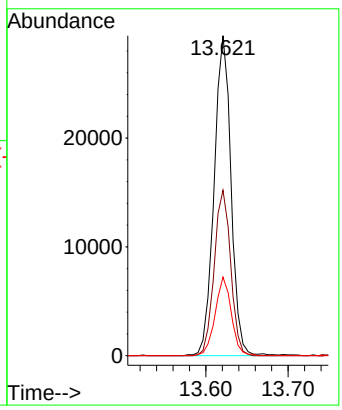




#89
n-Butylbenzene
Concen: 4.785 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 91 Resp: 4210

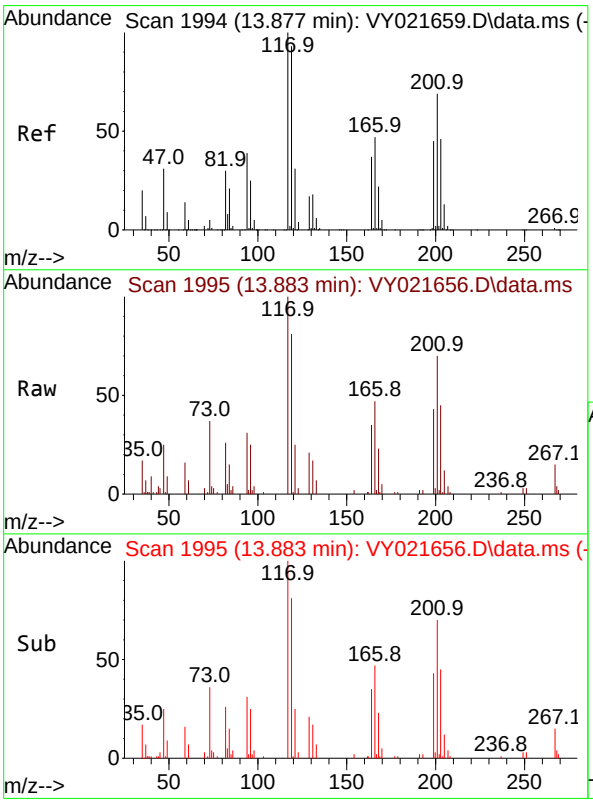
Ion	Ratio	Lower	Upper
91	100		
92	50.2	26.4	79.2
134	23.5	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

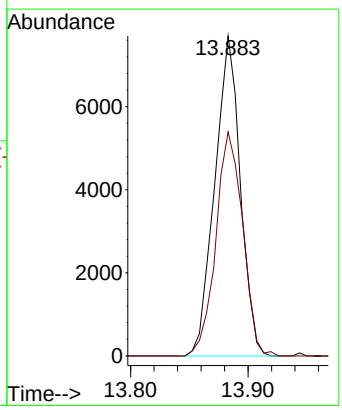
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

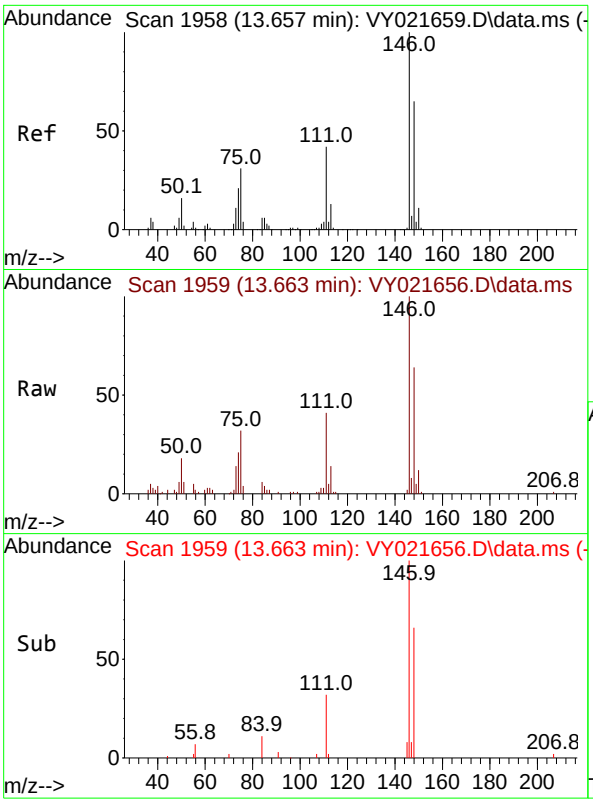


#90
Hexachloroethane
Concen: 5.573 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:117 Resp: 11619

Ion	Ratio	Lower	Upper
117	100		
201	73.9	37.4	112.1

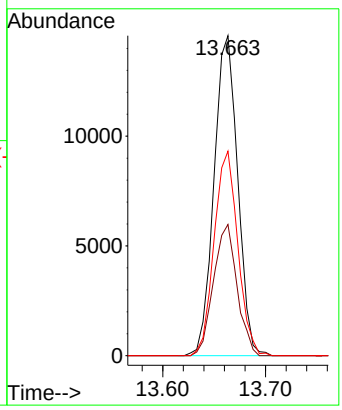




#91
1,2-Dichlorobenzene
Concen: 5.224 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:146 Resp: 2327

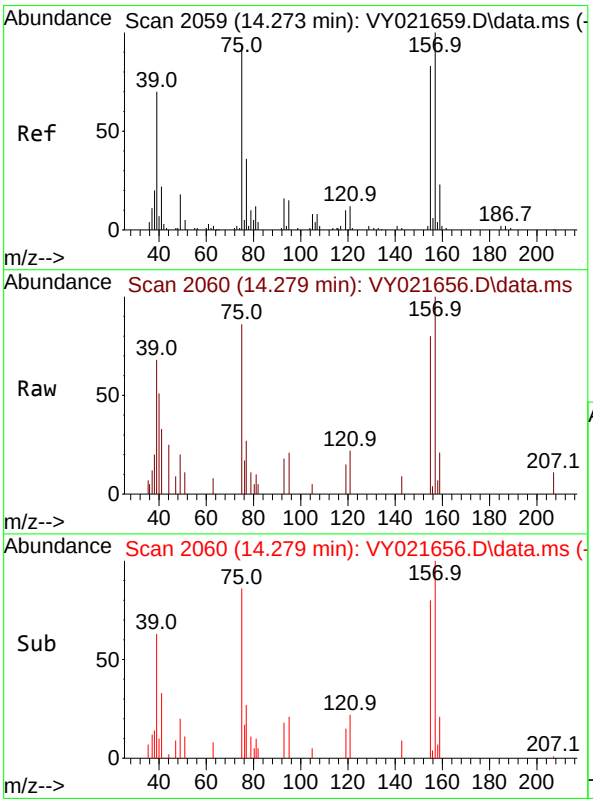
Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.7	62.1
148	64.1	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

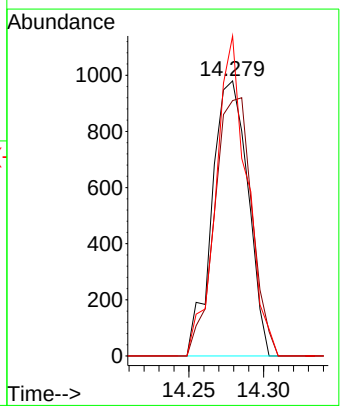
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

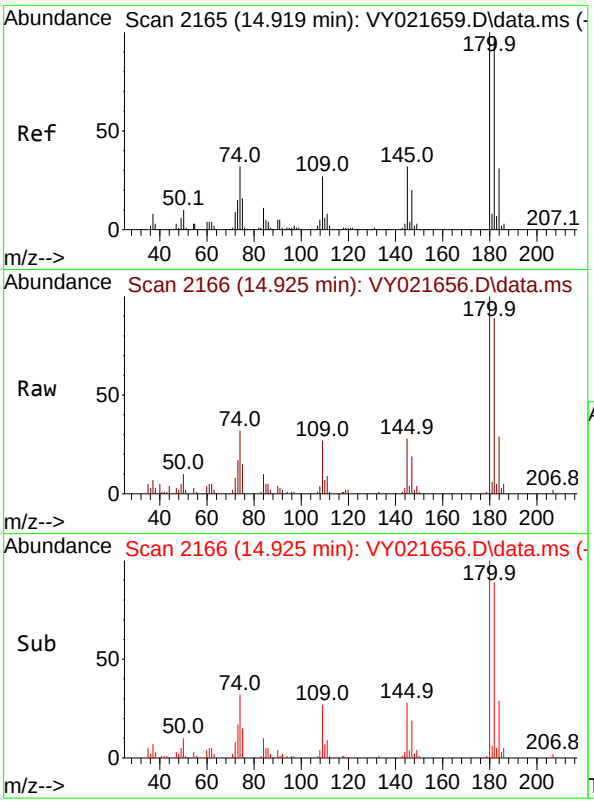


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.419 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion: 75 Resp: 1634

Ion	Ratio	Lower	Upper
75	100		
155	97.6	43.0	128.8
157	100.8	54.0	162.0

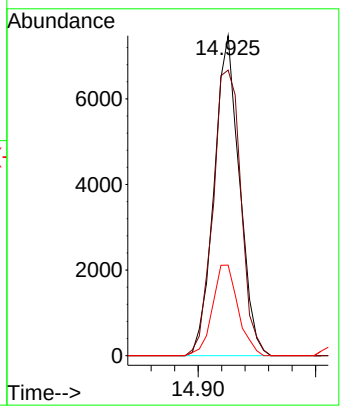




#93
1,2,4-Trichlorobenzene
Concen: 4.647 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:180 Resp: 1122

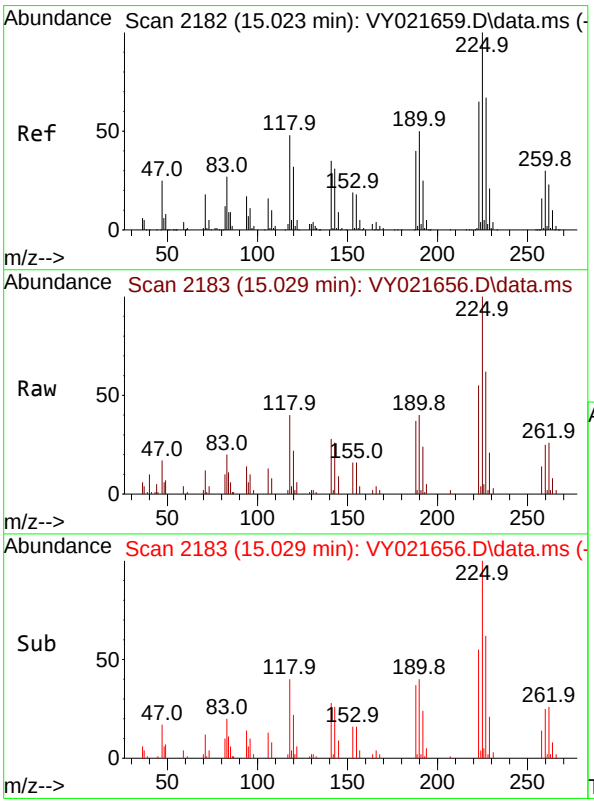
Ion	Ratio	Lower	Upper
180	100		
182	98.1	47.5	142.6
145	28.5	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

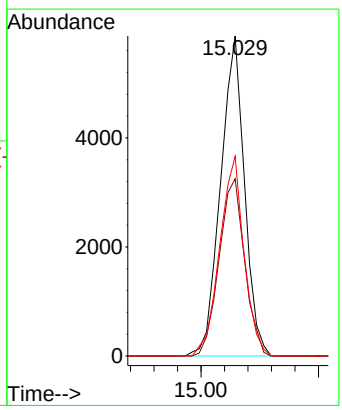
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

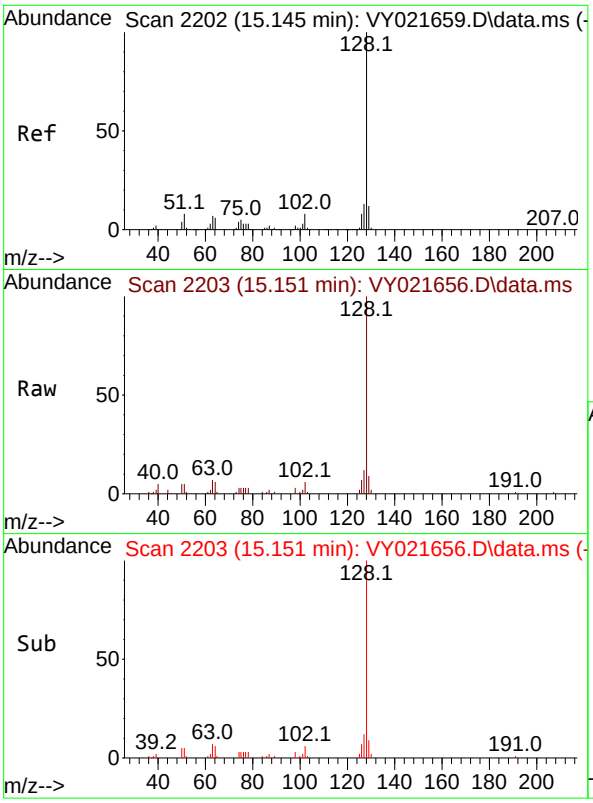


#94
Hexachlorobutadiene
Concen: 5.484 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:225 Resp: 8276

Ion	Ratio	Lower	Upper
225	100		
223	59.2	31.9	95.7
227	63.5	32.4	97.0

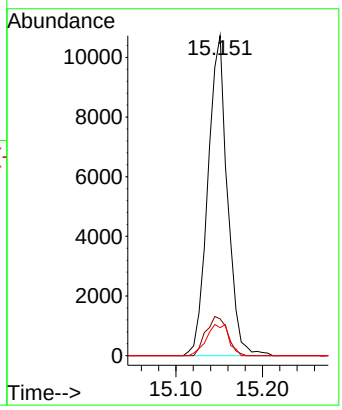




#95
Naphthalene
Concen: 4.194 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:128 Resp: 1679

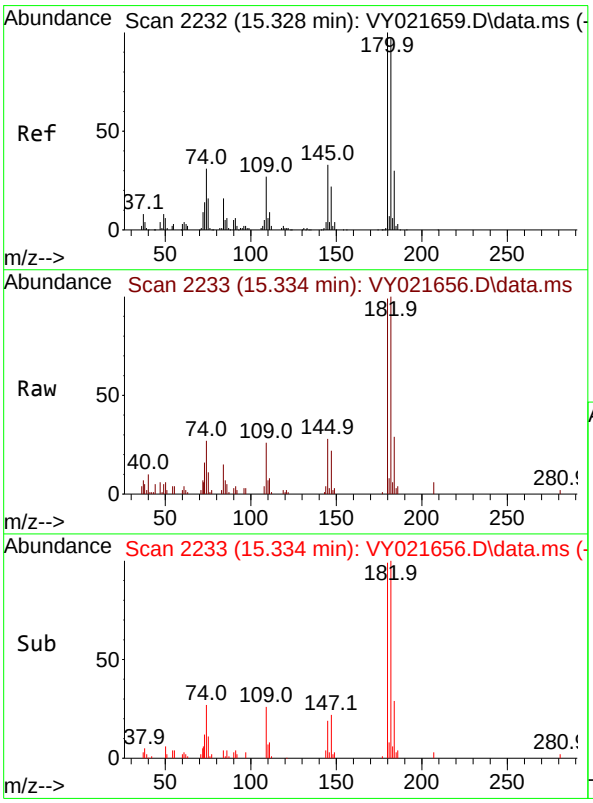
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.8	16.2
129	11.2	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

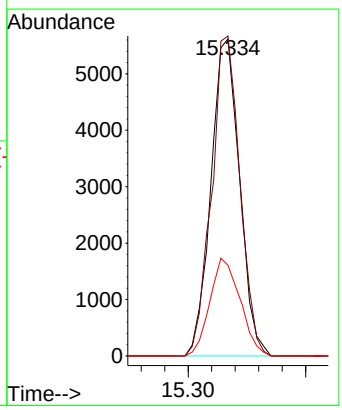
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.619 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY021656.D
Acq: 27 Mar 2025 10:08

Tgt Ion:180 Resp: 9518

Ion	Ratio	Lower	Upper
180	100		
182	99.4	47.5	142.5
145	32.5	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021657.D
Acq On : 27 Mar 2025 10:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:14:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	225523	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	354785	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	311737	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	152005	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	25195	10.311	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.620%#			
35) Dibromofluoromethane	7.634	113	22797	9.906	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.820%#			
50) Toluene-d8	10.103	98	88000	10.051	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.100%#			
62) 4-Bromofluorobenzene	12.408	95	29125	9.835	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.660%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	26017	11.130	ug/l		99
3) Chloromethane	2.068	50	34949	10.633	ug/l		99
4) Vinyl Chloride	2.202	62	39982	10.756	ug/l		96
5) Bromomethane	2.592	94	27670	10.914	ug/l		97
6) Chloroethane	2.733	64	25703	10.567	ug/l		98
7) Trichlorofluoromethane	3.056	101	50711	10.650	ug/l		100
8) Diethyl Ether	3.452	74	13940	10.765	ug/l		95
9) 1,1,2-Trichlorotrifluo...	3.818	101	27088	10.786	ug/l		98
10) Methyl Iodide	4.001	142	26193	9.507	ug/l		99
11) Tert butyl alcohol	4.860	59	8671	54.634	ug/l	#	87
12) 1,1-Dichloroethene	3.793	96	25446	10.757	ug/l		88
13) Acrolein	3.653	56	15799	54.518	ug/l		100
14) Allyl chloride	4.379	41	39045	10.352	ug/l		97
15) Acrylonitrile	5.055	53	28866	53.389	ug/l		98
16) Acetone	3.867	43	27669	55.329	ug/l		99
17) Carbon Disulfide	4.104	76	82458	10.583	ug/l	#	94
18) Methyl Acetate	4.385	43	12911	10.417	ug/l		100
19) Methyl tert-butyl Ether	5.110	73	60205	10.223	ug/l		98
20) Methylene Chloride	4.616	84	31313	9.677	ug/l		97
21) trans-1,2-Dichloroethene	5.110	96	27407	10.523	ug/l		96
22) Diisopropyl ether	6.012	45	79874	10.095	ug/l		93
23) Vinyl Acetate	5.958	43	233596	50.469	ug/l		98
24) 1,1-Dichloroethane	5.915	63	49217	10.403	ug/l		98
25) 2-Butanone	6.890	43	37356	52.299	ug/l		97
26) 2,2-Dichloropropane	6.884	77	43412	10.316	ug/l		99
27) cis-1,2-Dichloroethene	6.890	96	29699	10.140	ug/l		100
28) Bromochloromethane	7.244	49	21186	10.618	ug/l		99
29) Tetrahydrofuran	7.262	42	25111	54.625	ug/l		97
30) Chloroform	7.421	83	51464	10.459	ug/l		98
31) Cyclohexane	7.701	56	46569	10.798	ug/l	#	90
32) 1,1,1-Trichloroethane	7.616	97	45673	10.270	ug/l		98
36) 1,1-Dichloropropene	7.835	75	36121	10.304	ug/l		99
37) Ethyl Acetate	6.988	43	18146	10.969	ug/l		98
38) Carbon Tetrachloride	7.817	117	42141	10.496	ug/l		98
39) Methylcyclohexane	9.103	83	42492	10.147	ug/l		98
40) Benzene	8.079	78	108360	10.322	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021657.D
Acq On : 27 Mar 2025 10:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 28 02:14:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	9343m	10.635	ug/l		
42) 1,2-Dichloroethane	8.158	62	31606	10.679	ug/l		100
43) Isopropyl Acetate	8.195	43	33664	10.738	ug/l	#	87
44) Trichloroethene	8.866	130	28275	10.571	ug/l		95
45) 1,2-Dichloropropane	9.140	63	25943	10.440	ug/l		99
46) Dibromomethane	9.231	93	15605	10.896	ug/l		94
47) Bromodichloromethane	9.427	83	38737	10.439	ug/l		99
48) Methyl methacrylate	9.219	41	14576	10.130	ug/l		98
49) 1,4-Dioxane	9.231	88	3077	200.565	ug/l		89
51) 4-Methyl-2-Pentanone	10.000	43	85020	52.111	ug/l		98
52) Toluene	10.170	92	66889	10.212	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	33356	10.120	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	39609	10.186	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	20050	10.879	ug/l		95
56) Ethyl methacrylate	10.439	69	21901	9.307	ug/l		96
57) 1,3-Dichloropropane	10.713	76	33316	10.467	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	54271	47.274	ug/l		98
59) 2-Hexanone	10.762	43	54649	50.295	ug/l		100
60) Dibromochloromethane	10.914	129	26032	10.346	ug/l		94
61) 1,2-Dibromoethane	11.018	107	17722	10.251	ug/l		97
64) Tetrachloroethene	10.646	164	31334	11.036	ug/l		93
65) Chlorobenzene	11.444	112	73433	10.276	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	25506	10.060	ug/l		97
67) Ethyl Benzene	11.518	91	119480	9.750	ug/l		98
68) m/p-Xylenes	11.627	106	93887	20.009	ug/l		99
69) o-Xylene	11.957	106	41768	9.643	ug/l		98
70) Styrene	11.969	104	69196	9.581	ug/l		99
71) Bromoform	12.127	173	14887	10.294	ug/l	#	98
73) Isopropylbenzene	12.255	105	112512	9.966	ug/l		100
74) N-amyl acetate	12.072	43	26259	9.910	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	21883	10.781	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	17026m	11.300	ug/l		
77) Bromobenzene	12.530	156	27648	10.199	ug/l		98
78) n-propylbenzene	12.597	91	135498	9.983	ug/l		99
79) 2-Chlorotoluene	12.682	91	80079	10.158	ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	91235	9.888	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	6899	10.550	ug/l		99
82) 4-Chlorotoluene	12.780	91	83484	10.157	ug/l		100
83) tert-Butylbenzene	12.999	119	81296	9.892	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	90142	9.884	ug/l		100
85) sec-Butylbenzene	13.176	105	121575	10.122	ug/l		99
86) p-Isopropyltoluene	13.292	119	97092	9.781	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	53929	10.098	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	54536	10.336	ug/l		95
89) n-Butylbenzene	13.615	91	89162	9.712	ug/l		98
90) Hexachloroethane	13.877	117	21881	10.059	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	48845	10.506	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3387	10.766	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	23748	9.419	ug/l		99
94) Hexachlorobutadiene	15.023	225	15844	10.063	ug/l		99
95) Naphthalene	15.145	128	36711	8.785	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	20711	9.633	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021657.D
Acq On : 27 Mar 2025 10:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:14:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

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

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

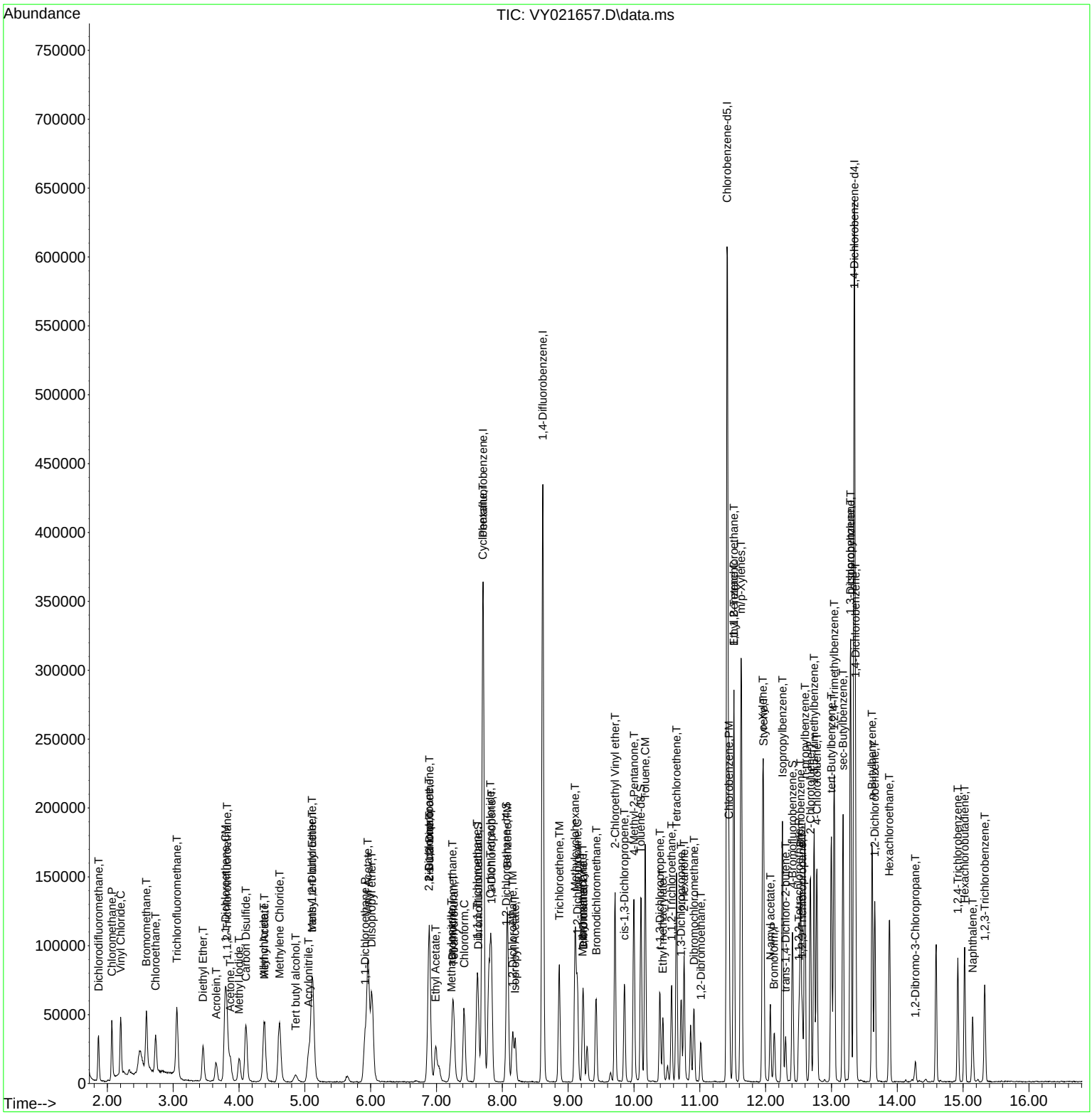
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021657.D
Acq On : 27 Mar 2025 10:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

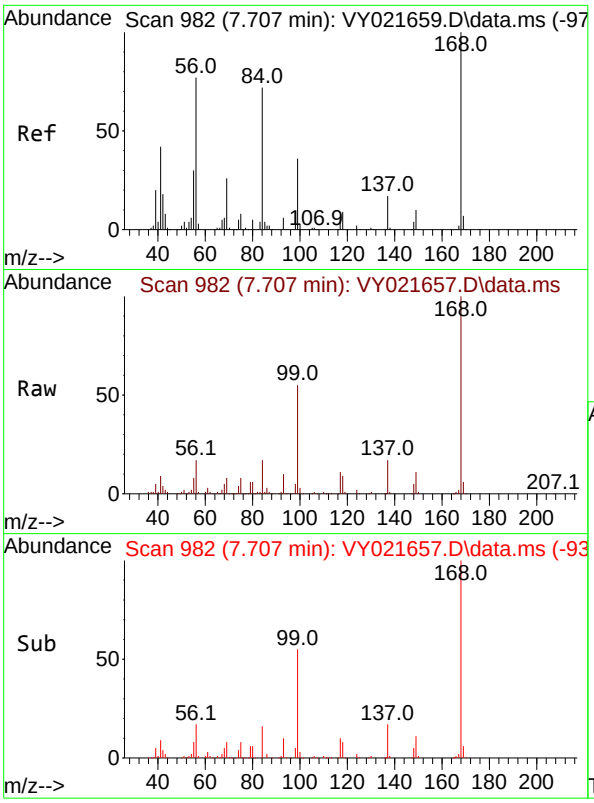
Quant Time: Mar 28 02:14:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

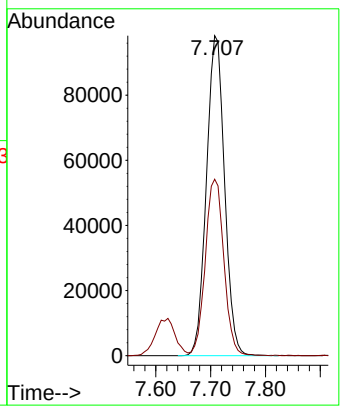




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:168 Resp: 22552

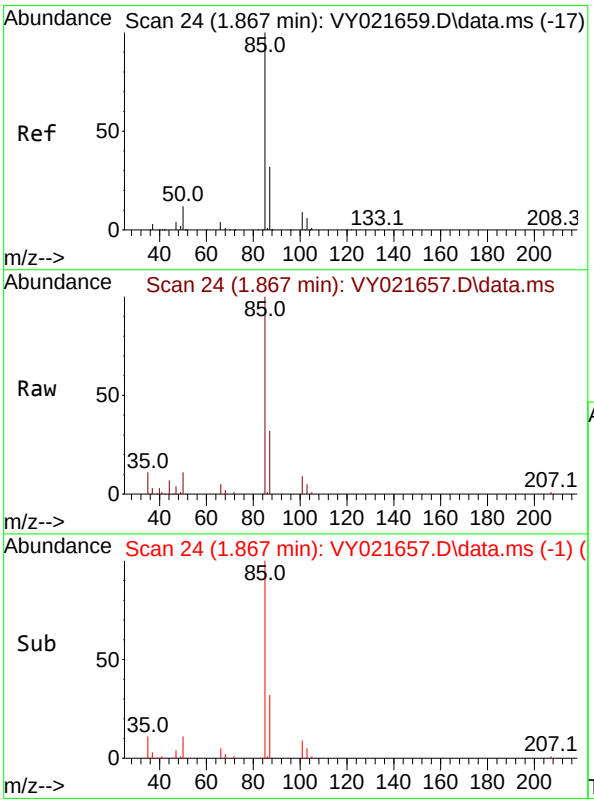
Ion	Ratio	Lower	Upper
168	100		
99	55.1	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

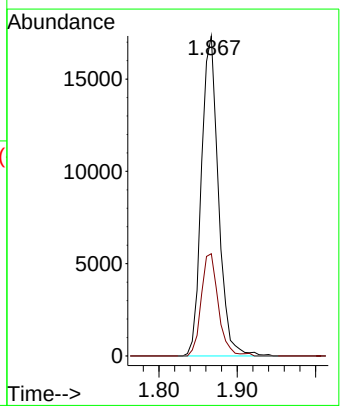
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

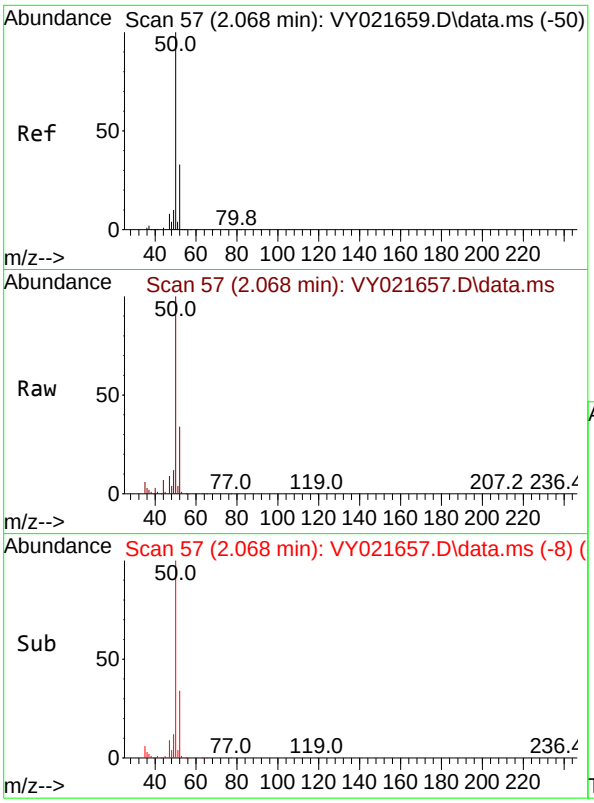


#2
Dichlorodifluoromethane
Concen: 11.130 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 85 Resp: 26017

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.2	48.6

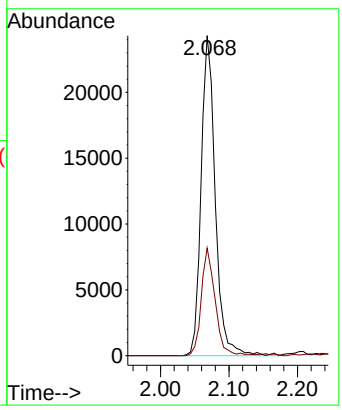




#3
Chloromethane
Concen: 10.633 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 50 Resp: 3494

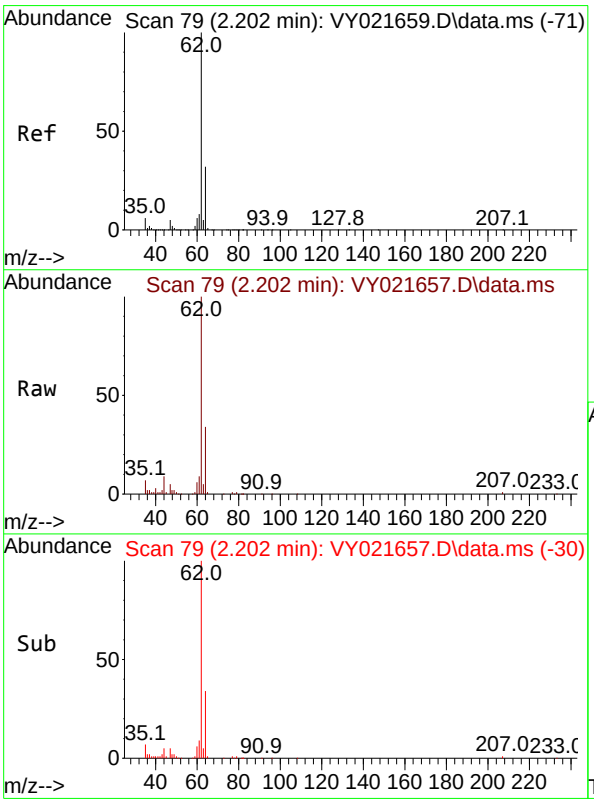
Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

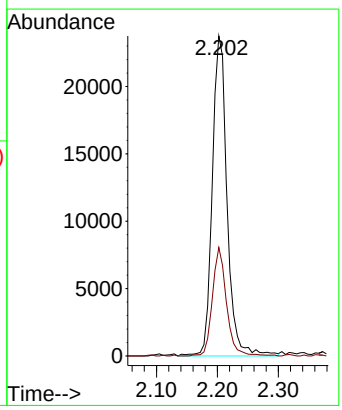
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

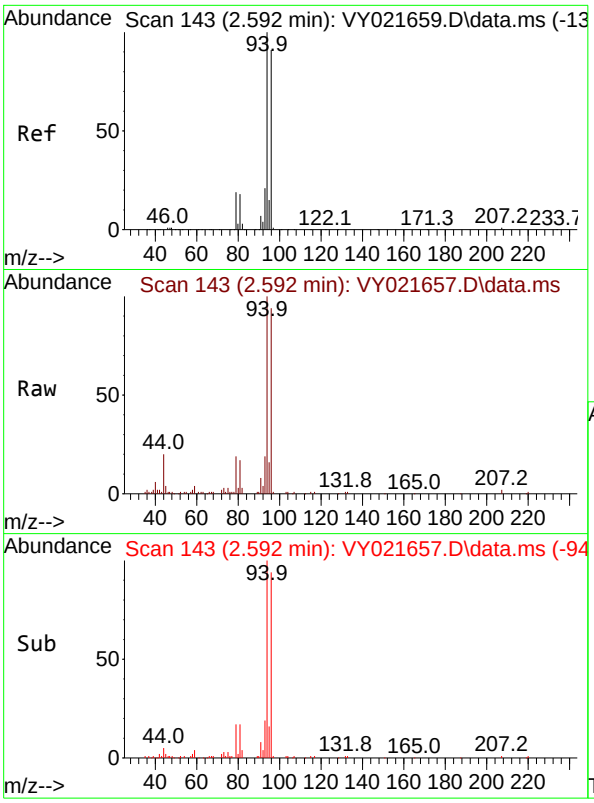


#4
Vinyl Chloride
Concen: 10.756 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 62 Resp: 39982

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.5	38.3

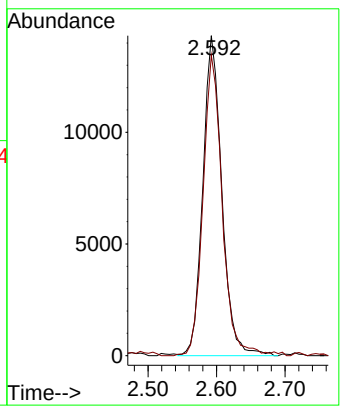




#5
Bromomethane
Concen: 10.914 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 94 Resp: 2767

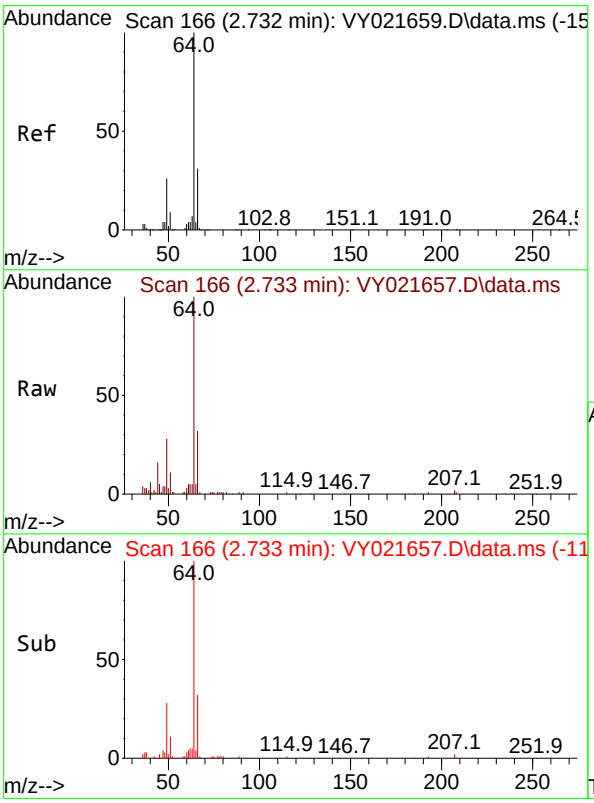
Ion	Ratio	Lower	Upper
94	100		
96	93.4	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

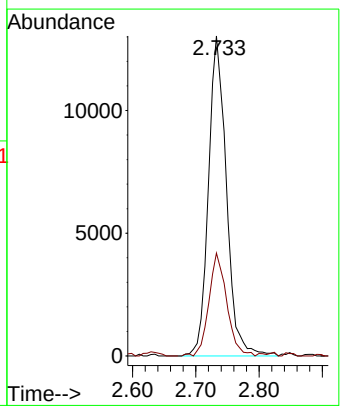
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

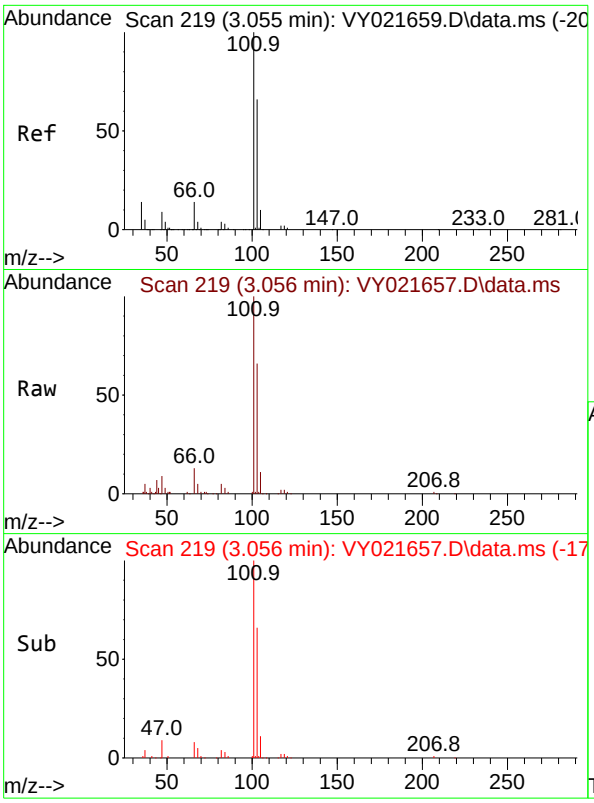


#6
Chloroethane
Concen: 10.567 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 64 Resp: 25703

Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.9	37.3

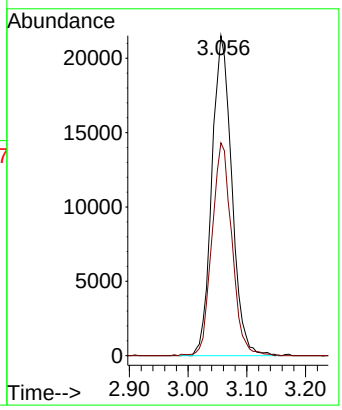




#7
Trichlorofluoromethane
Concen: 10.650 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:101 Resp: 5071

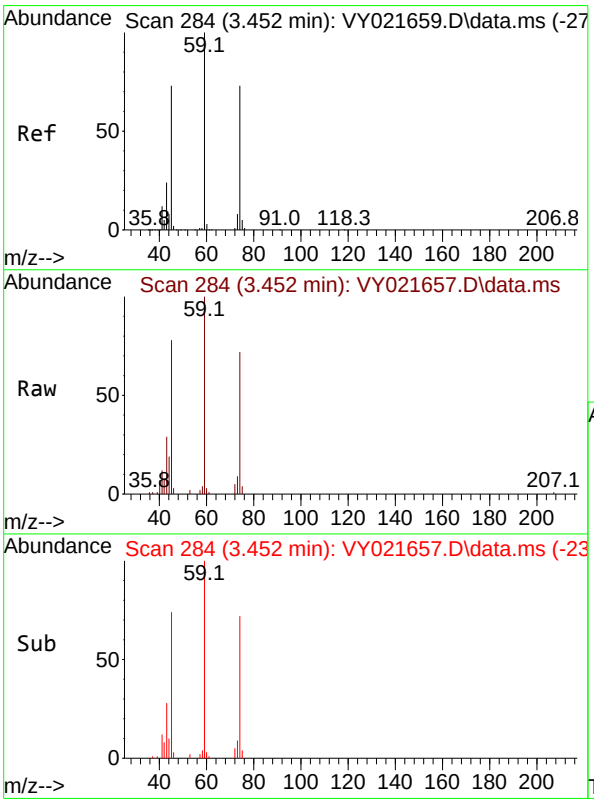
Ion	Ratio	Lower	Upper
101	100		
103	66.5	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

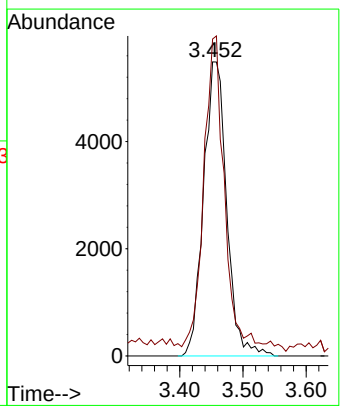
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

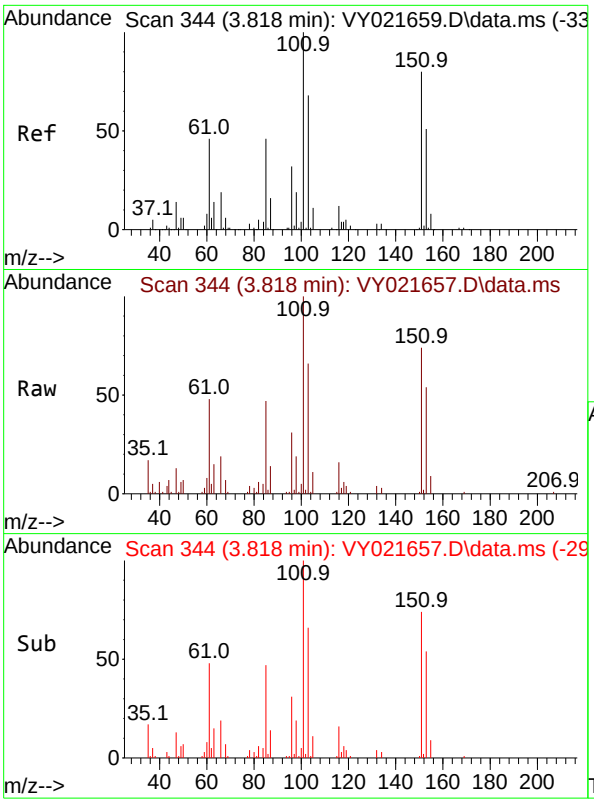


#8
Diethyl Ether
Concen: 10.765 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 74 Resp: 13940

Ion	Ratio	Lower	Upper
74	100		
45	92.0	48.6	145.8

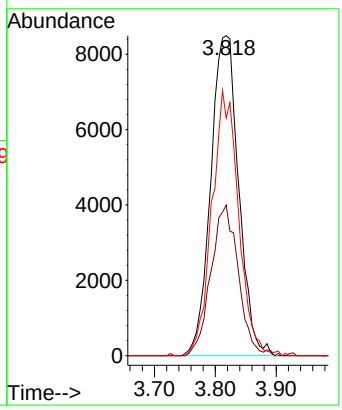




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.786 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:101 Resp: 2708

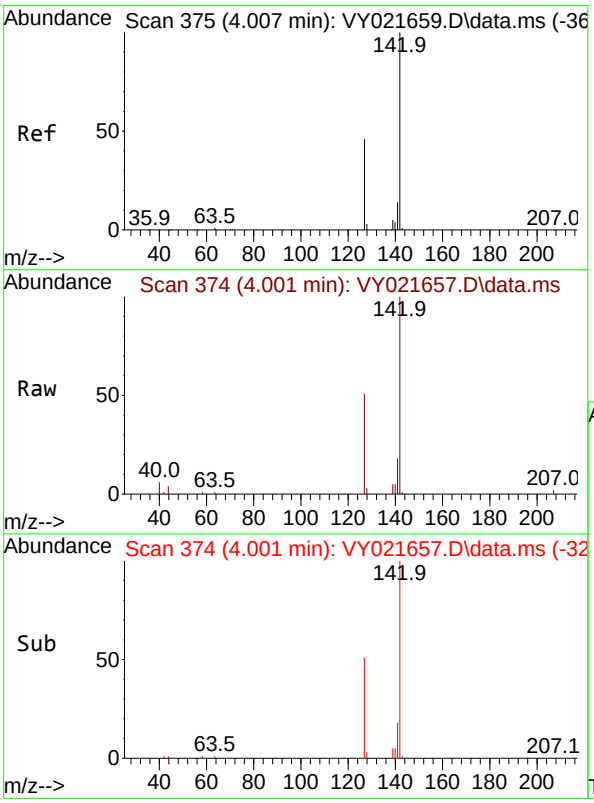
Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.3	54.5
151	79.0	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

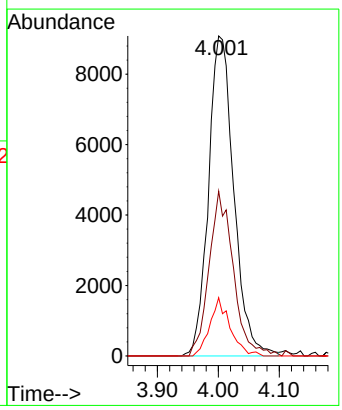
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

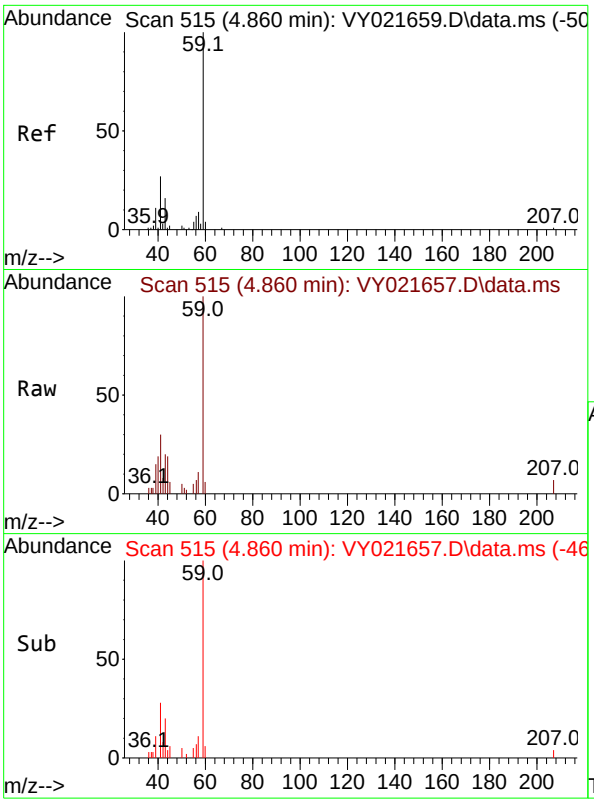


#10
Methyl Iodide
Concen: 9.507 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:142 Resp: 26193

Ion	Ratio	Lower	Upper
142	100		
127	49.4	38.7	58.1
141	14.6	11.5	17.3

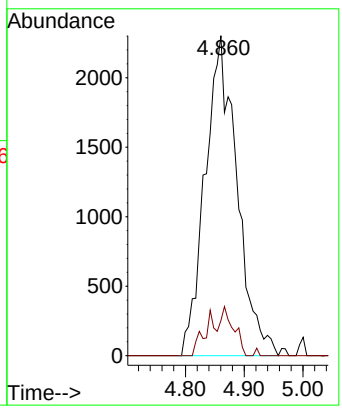




#11
Tert butyl alcohol
Concen: 54.634 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 59 Resp: 867

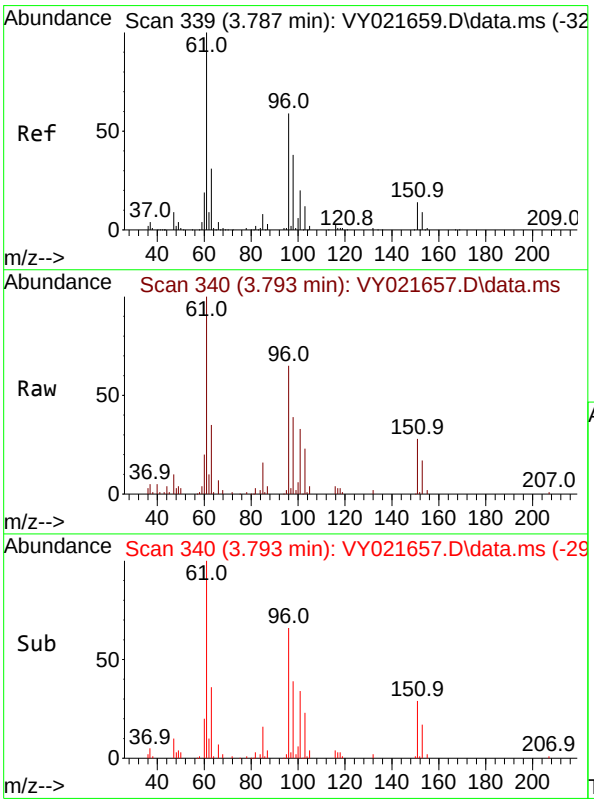
Ion	Ratio	Lower	Upper
59	100		
57	6.3	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

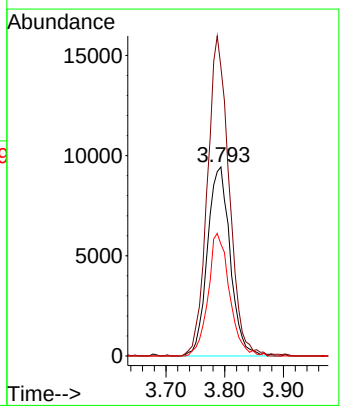
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

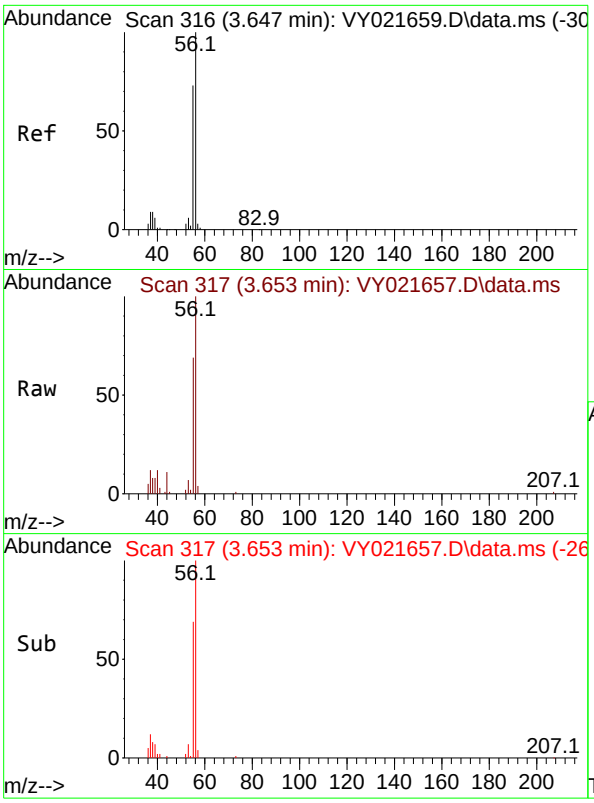


#12
1,1-Dichloroethene
Concen: 10.757 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 96 Resp: 25446

Ion	Ratio	Lower	Upper
96	100		
61	152.8	136.6	204.8
98	59.2	52.3	78.5

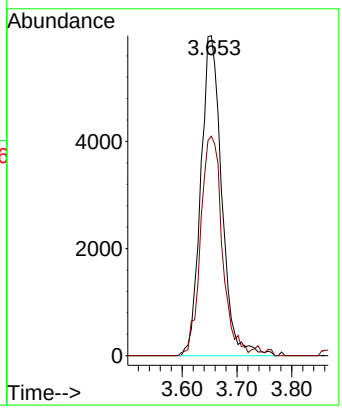




#13
Acrolein
Concen: 54.518 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 56 Resp: 1579

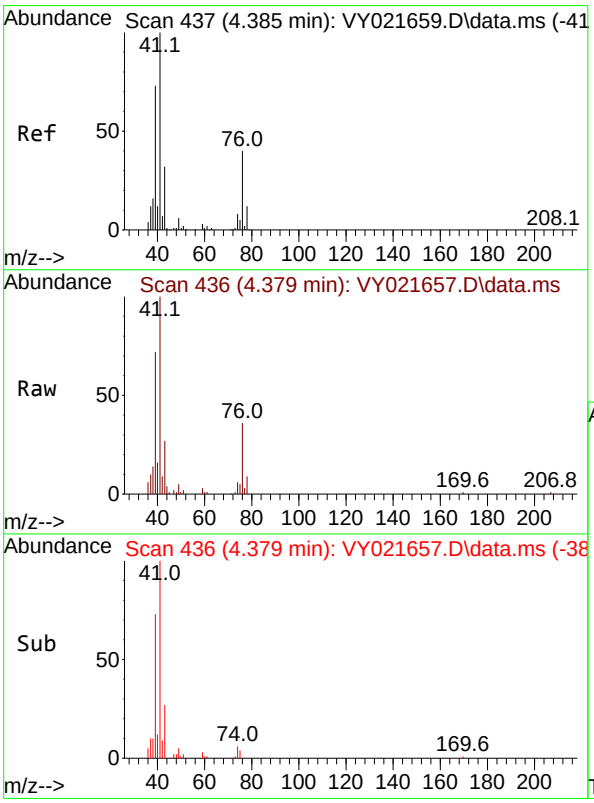
Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

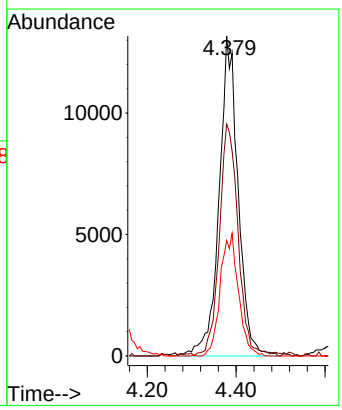
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

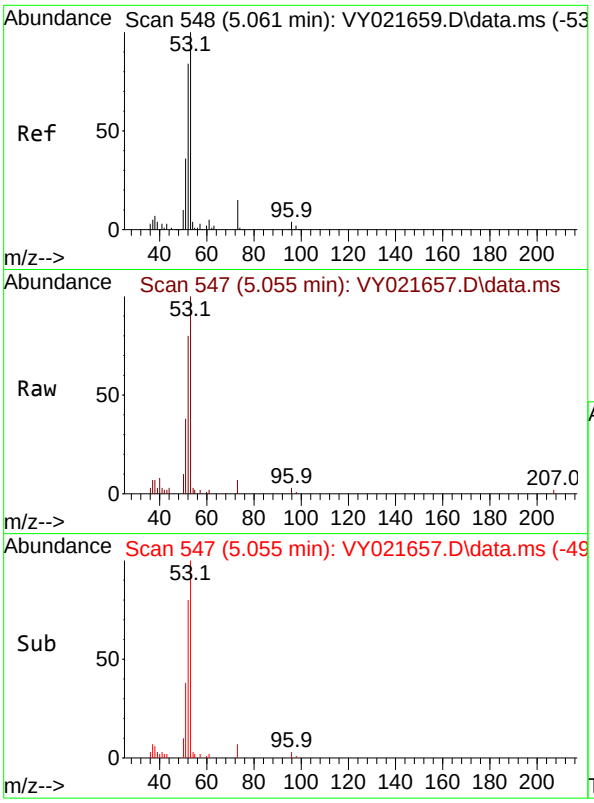


#14
Allyl chloride
Concen: 10.352 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 41 Resp: 39045

Ion	Ratio	Lower	Upper
41	100		
39	71.1	58.6	88.0
76	36.4	30.3	45.5

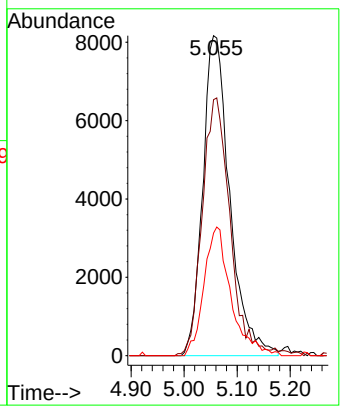




#15
Acrylonitrile
Concen: 53.389 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 53 Resp: 2886

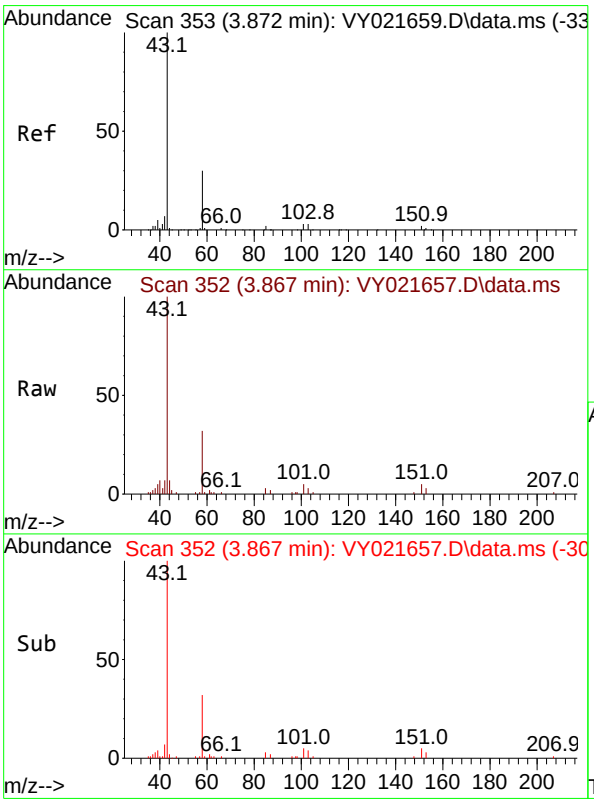
Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.9	97.3
51	40.1	30.2	45.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

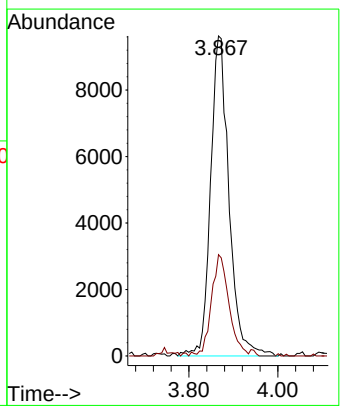
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

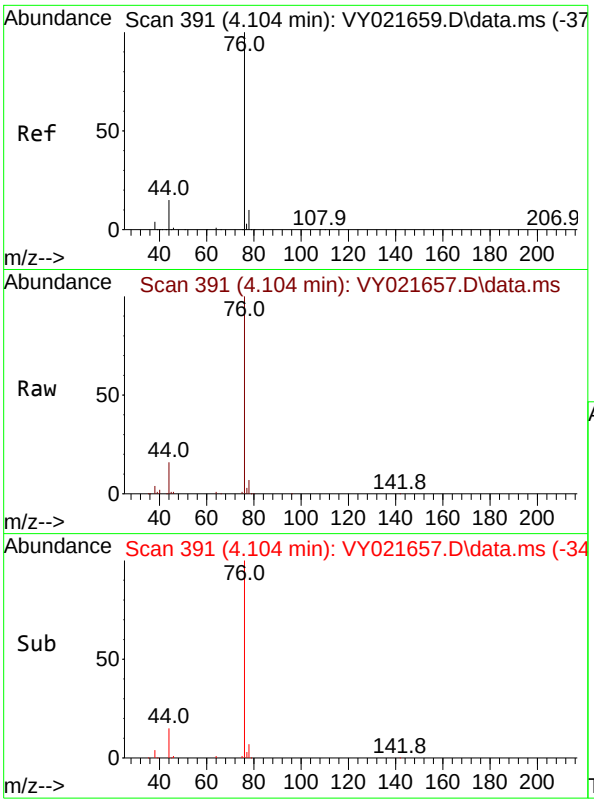


#16
Acetone
Concen: 55.329 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 43 Resp: 27669

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.2	36.4

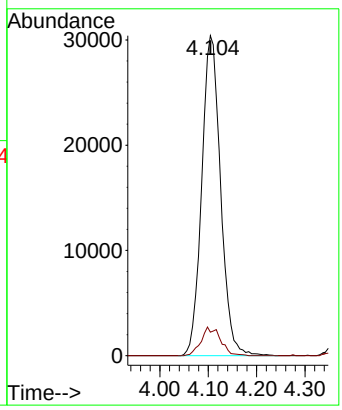




#17
Carbon Disulfide
Concen: 10.583 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 76 Resp: 8245

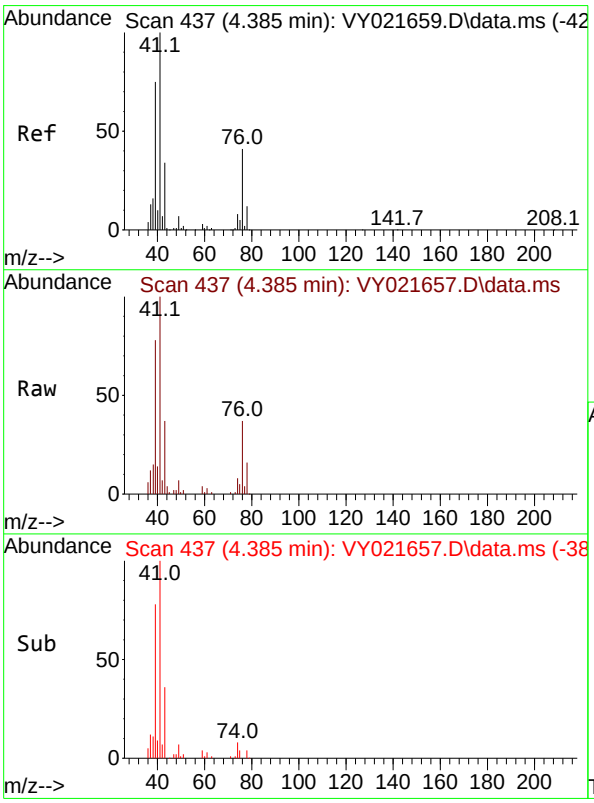
Ion	Ratio	Lower	Upper
76	100		
78	7.3	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

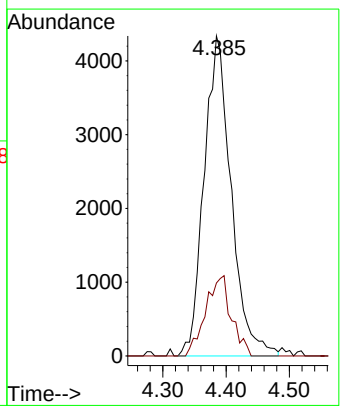
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

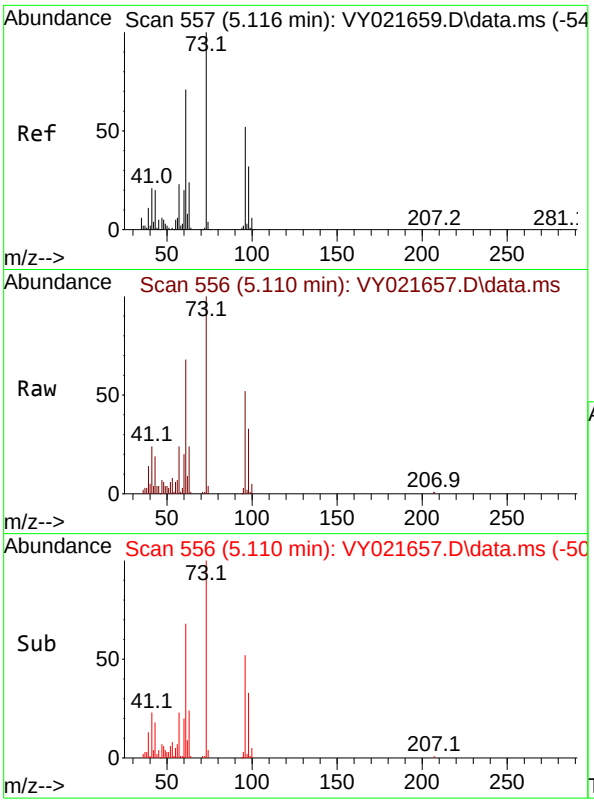


#18
Methyl Acetate
Concen: 10.417 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 43 Resp: 12911

Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.1	28.7

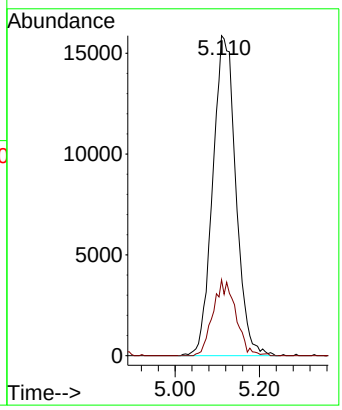




#19
Methyl tert-butyl Ether
Concen: 10.223 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 73 Resp: 6020

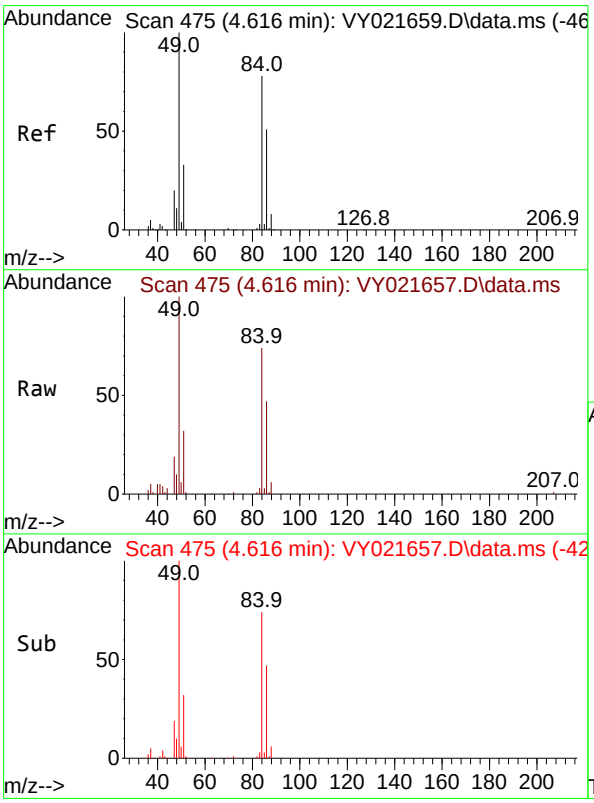
Ion	Ratio	Lower	Upper
73	100		
57	23.7	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

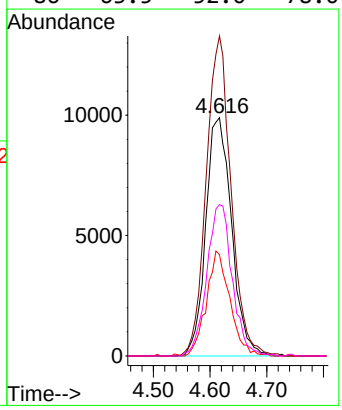
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

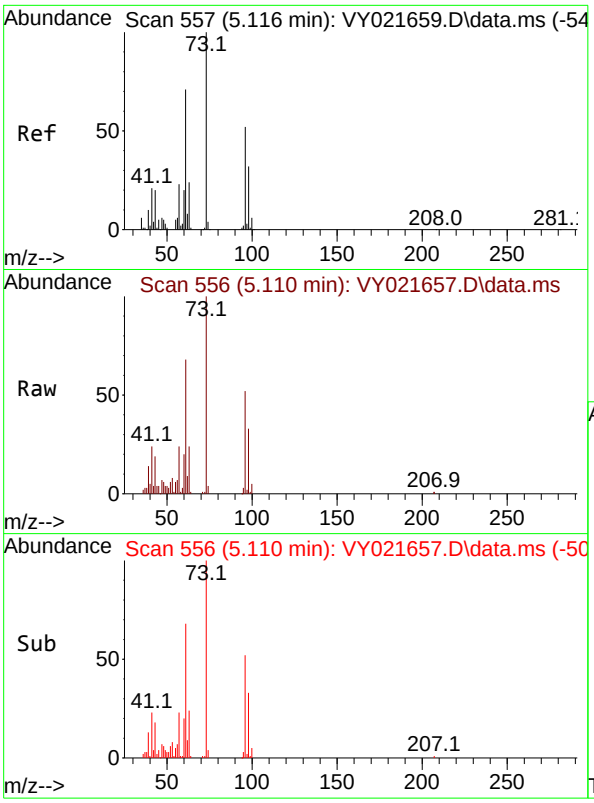


#20
Methylene Chloride
Concen: 9.677 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 84 Resp: 31313

Ion	Ratio	Lower	Upper
84	100		
49	134.3	102.8	154.2
51	42.5	33.5	50.3
86	63.5	52.0	78.0

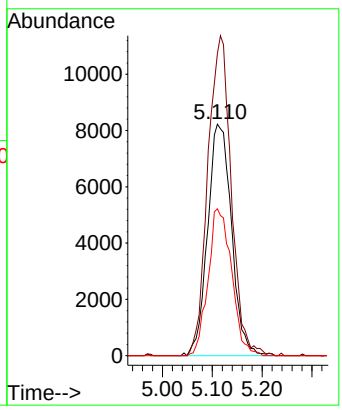




#21
trans-1,2-Dichloroethene
Concen: 10.523 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 96 Resp: 2740

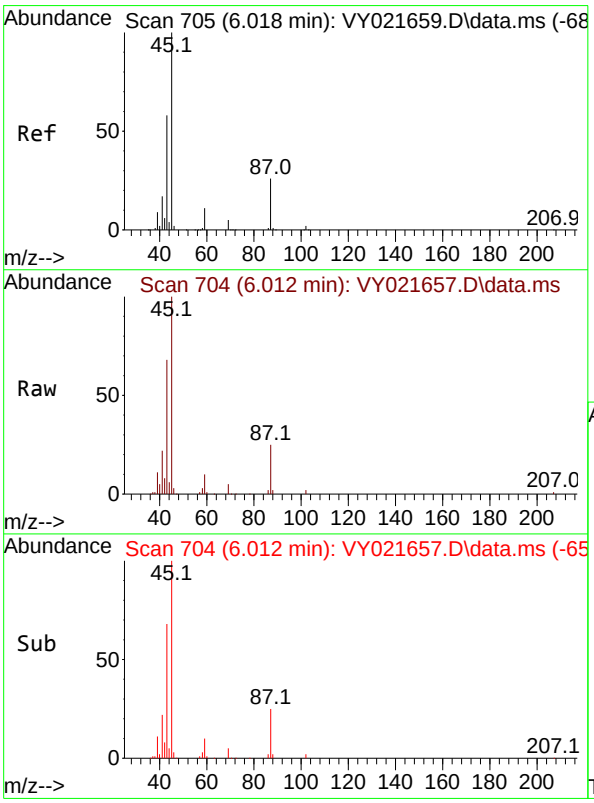
Ion	Ratio	Lower	Upper
96	100		
61	130.5	109.4	164.0
98	63.5	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

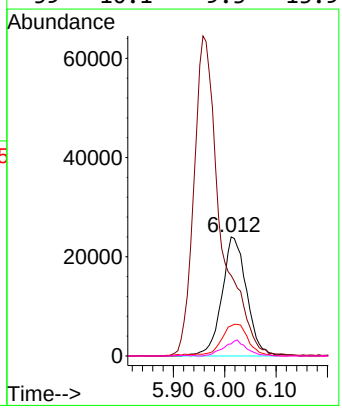
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

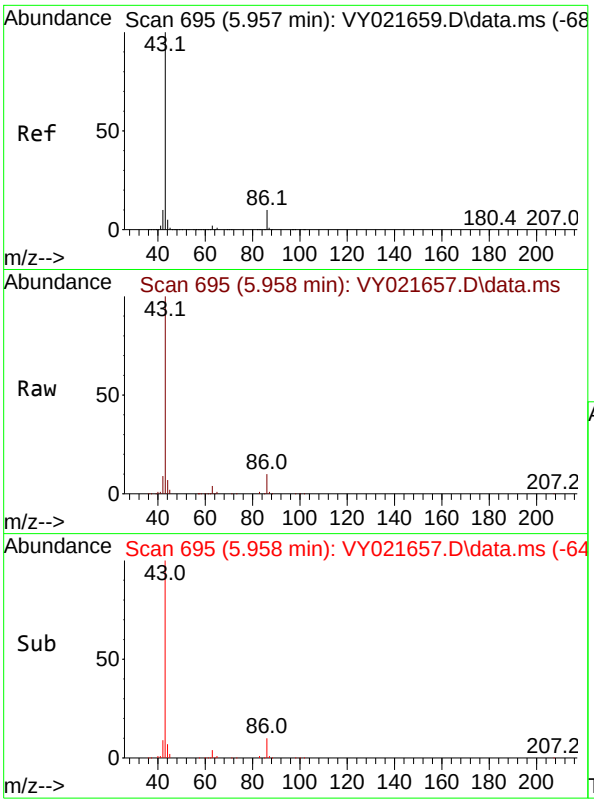


#22
Diisopropyl ether
Concen: 10.095 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 45 Resp: 79874

Ion	Ratio	Lower	Upper
45	100		
43	66.0	46.6	69.8
87	24.9	20.7	31.1
59	10.1	9.3	13.9





#23
Vinyl Acetate
Concen: 50.469 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

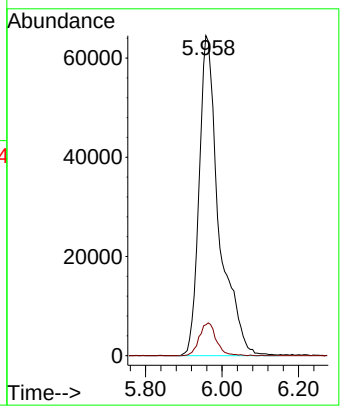
Tgt Ion: 43 Resp: 23359

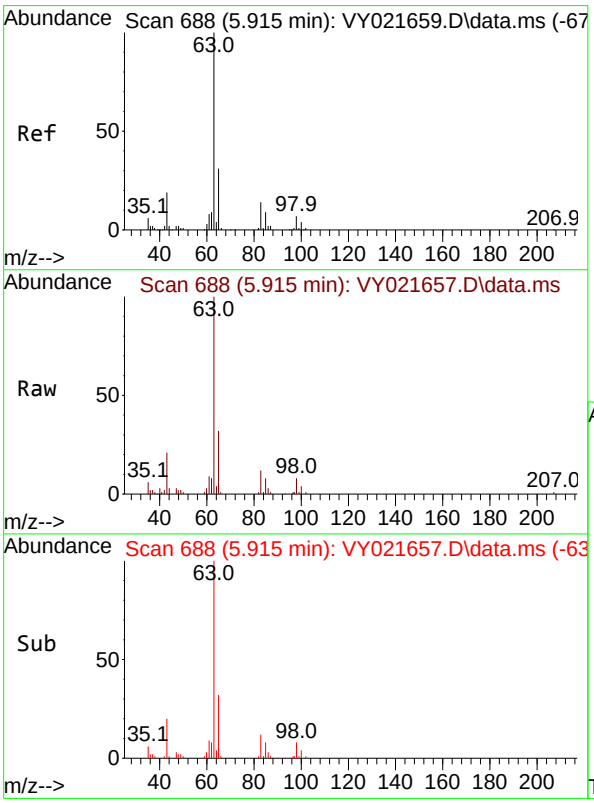
Ion	Ratio	Lower	Upper
43	100		
86	9.6	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

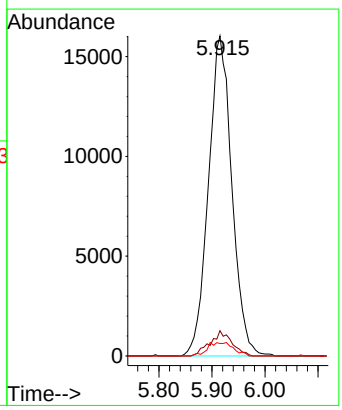


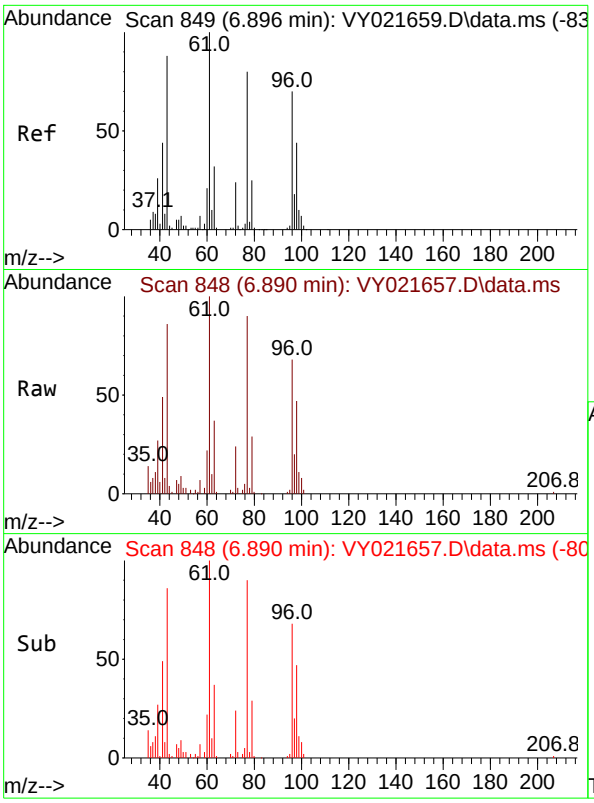


#24
1,1-Dichloroethane
Concen: 10.403 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 63 Resp: 49217

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.5	10.5
100	3.9	2.2	6.6





#25
2-Butanone
Concen: 52.299 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

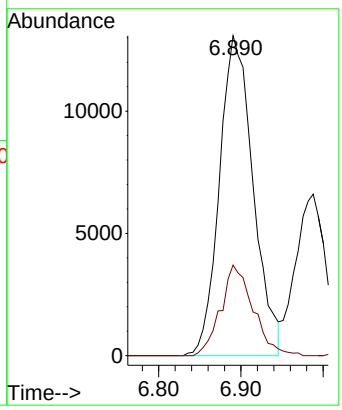
Tgt Ion: 43 Resp: 3735

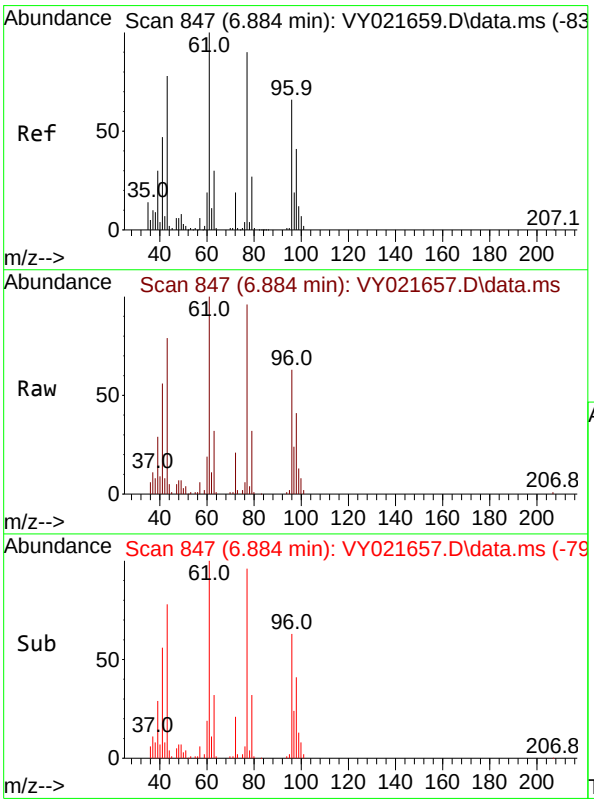
Ion	Ratio	Lower	Upper
43	100		
72	28.3	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

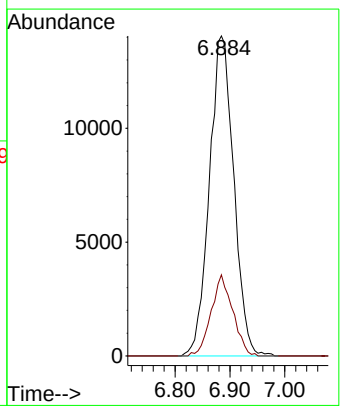


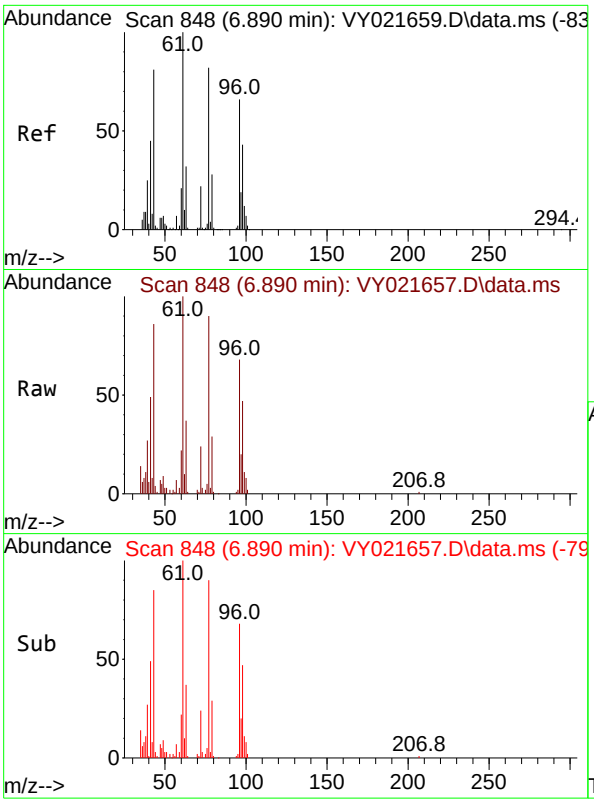


#26
2,2-Dichloropropane
Concen: 10.316 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 77 Resp: 43412

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.1	33.1

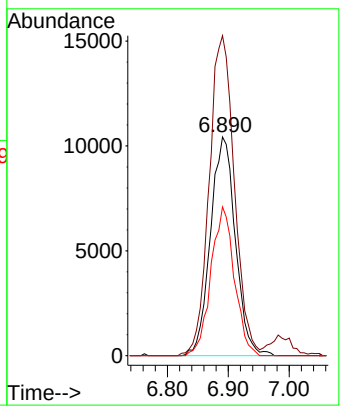




#27
cis-1,2-Dichloroethene
Concen: 10.140 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 96 Resp: 2969

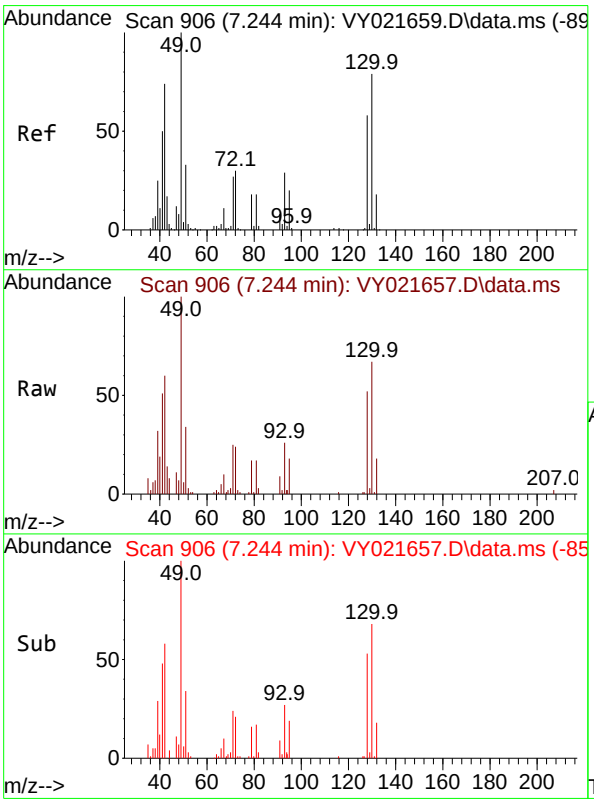
Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	296.4
98	63.9	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

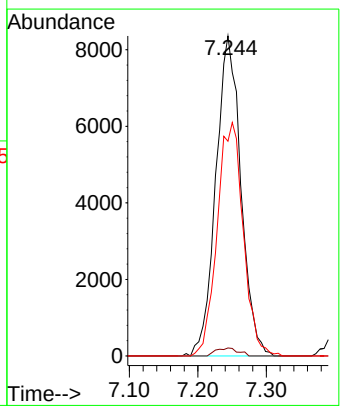
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

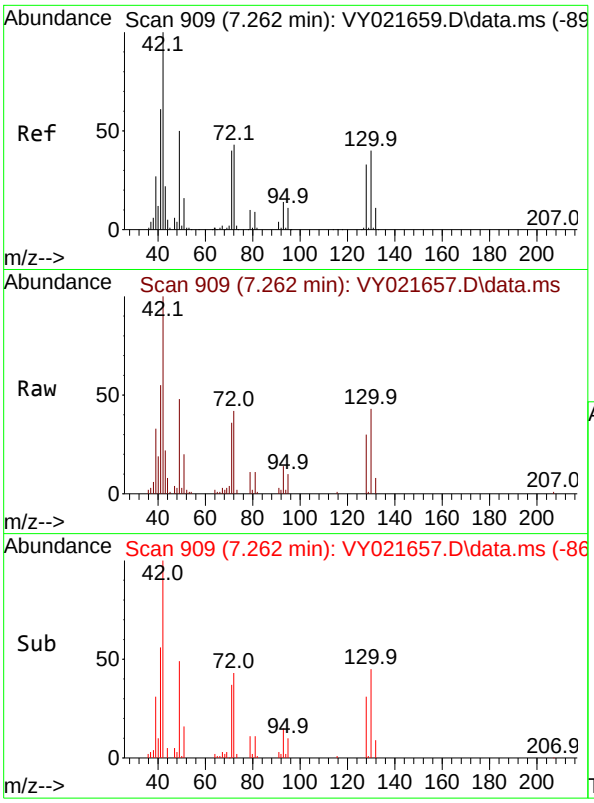


#28
Bromochloromethane
Concen: 10.618 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 49 Resp: 21186

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	75.9	60.1	90.1

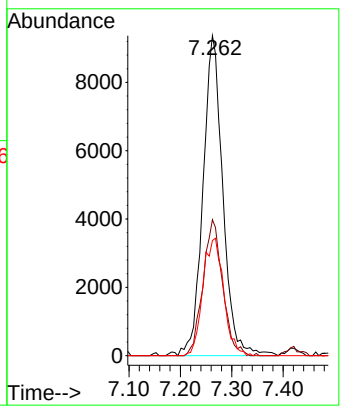




#29
Tetrahydrofuran
Concen: 54.625 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 42 Resp: 2511

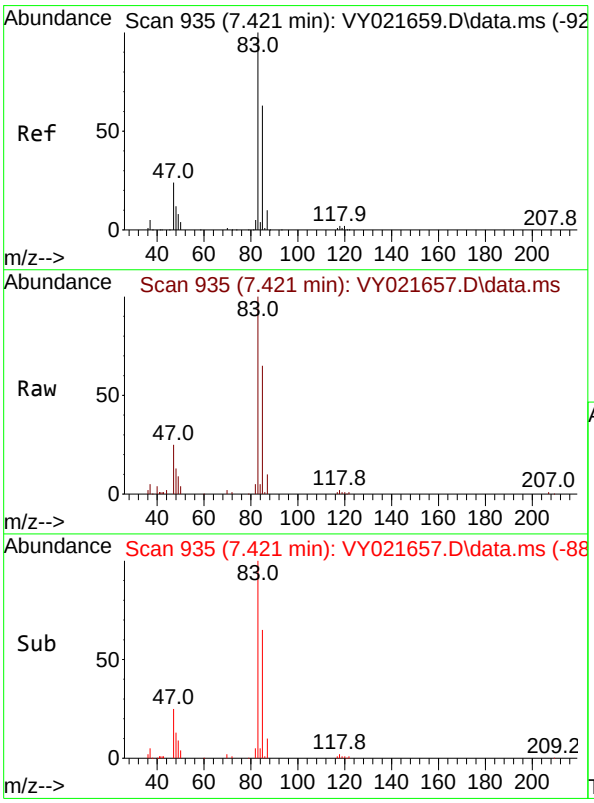
Ion	Ratio	Lower	Upper
42	100		
72	41.9	34.6	52.0
71	38.5	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

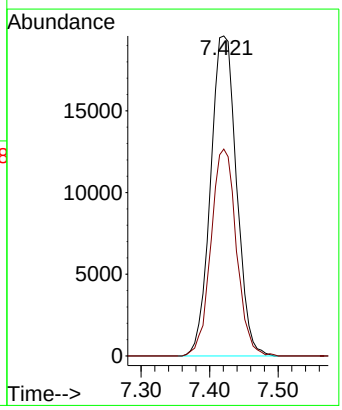
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

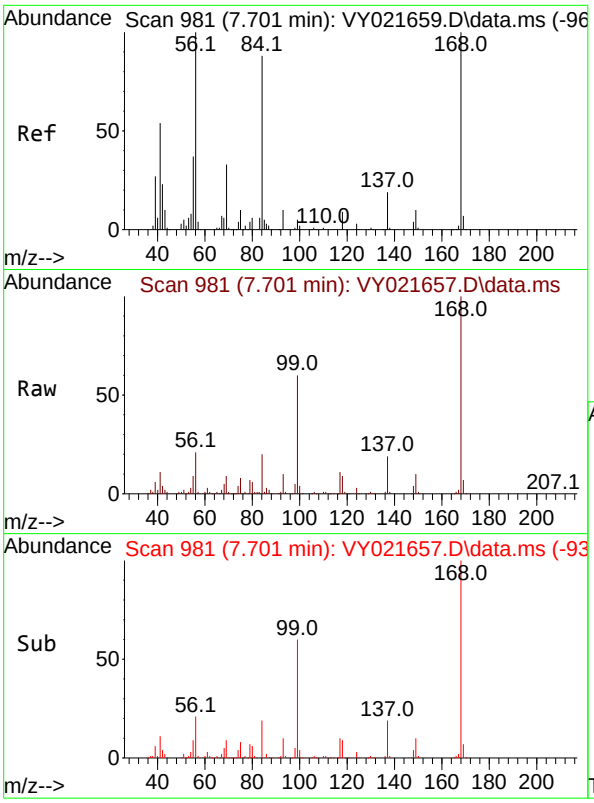


#30
Chloroform
Concen: 10.459 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 83 Resp: 51464

Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.6	75.8





#31
Cyclohexane
Concen: 10.798 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

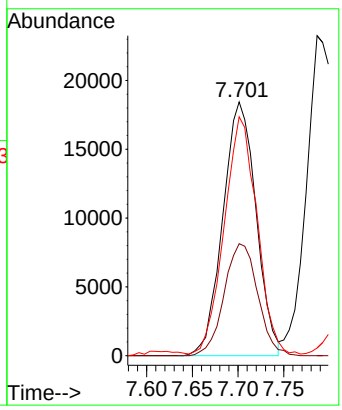
Tgt Ion: 56 Resp: 4656

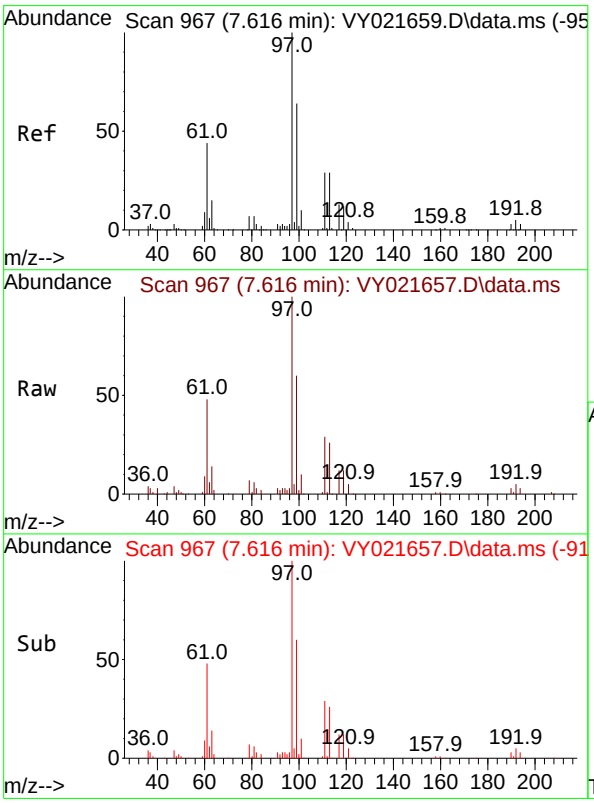
Ion	Ratio	Lower	Upper
56	100		
69	44.1	26.6	40.0
84	92.8	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

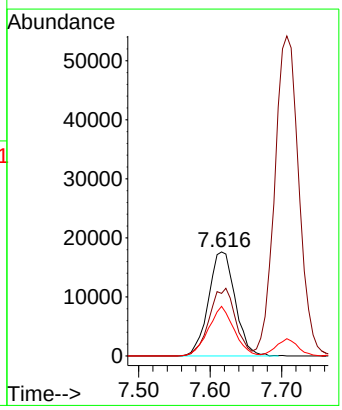


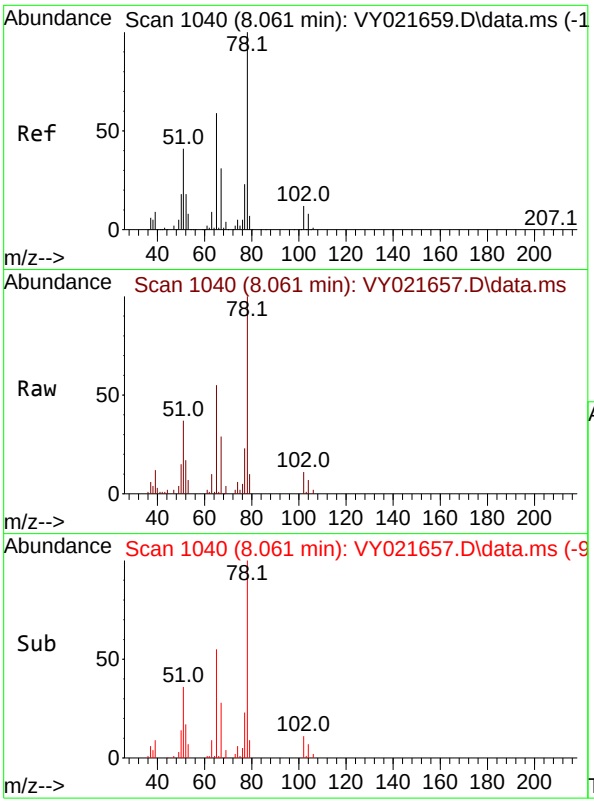


#32
1,1,1-Trichloroethane
Concen: 10.270 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 97 Resp: 45673

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.7	76.1
61	45.8	35.2	52.8

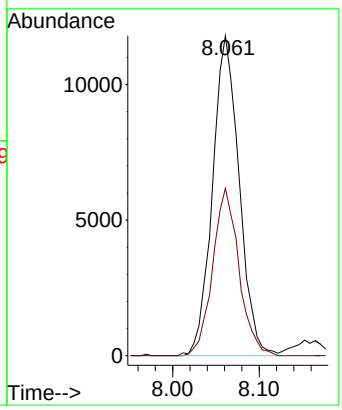




#33
1,2-Dichloroethane-d4
Concen: 10.311 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 65 Resp: 2519

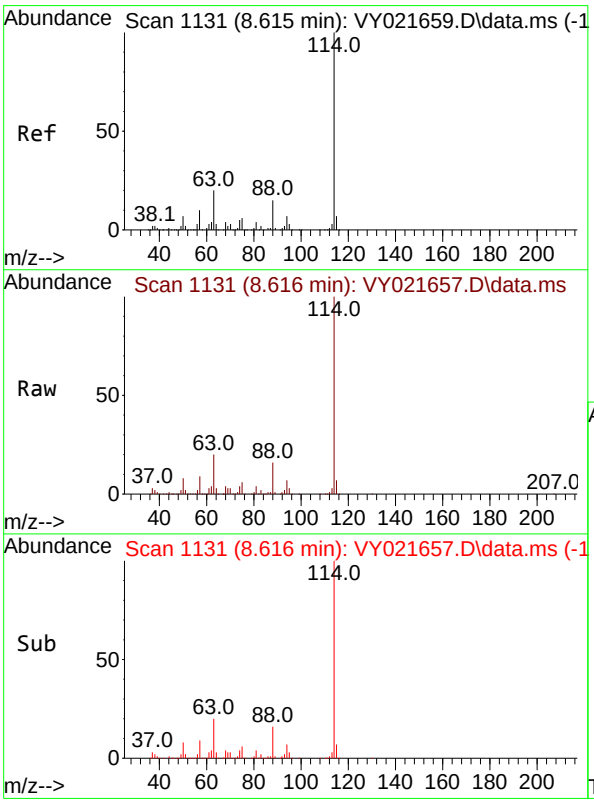
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

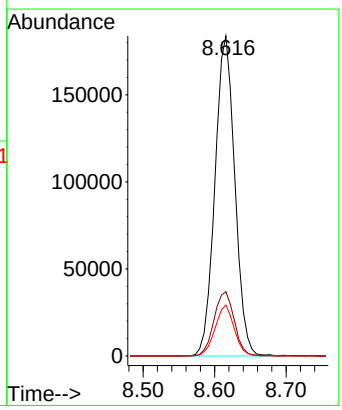
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

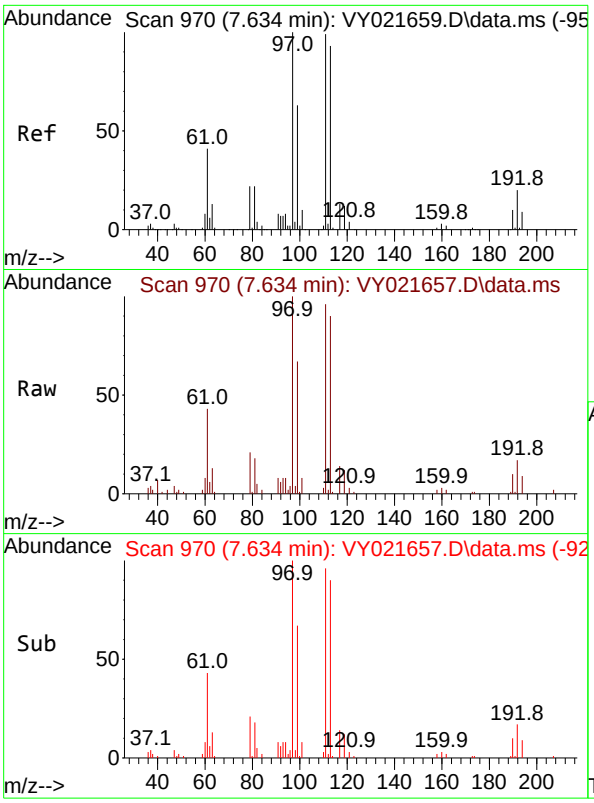


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:114 Resp: 354785

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.2
88	15.9	0.0	29.8

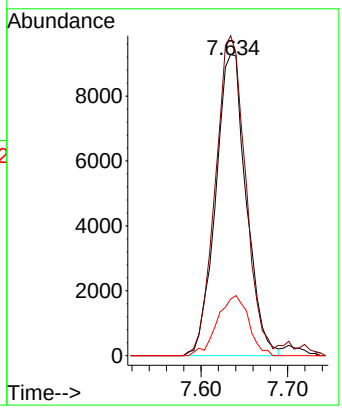




#35
Dibromofluoromethane
Concen: 9.906 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:113 Resp: 2279

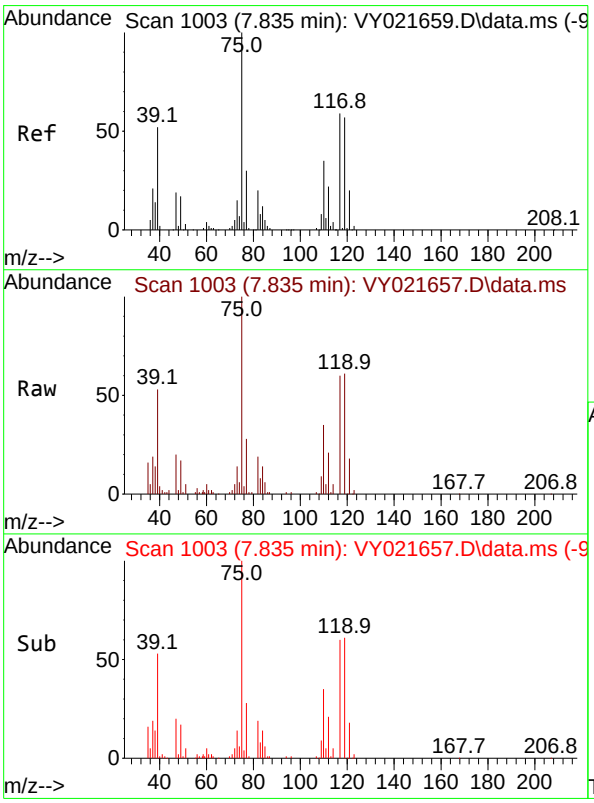
Ion	Ratio	Lower	Upper
113	100		
111	105.8	82.6	123.8
192	20.4	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

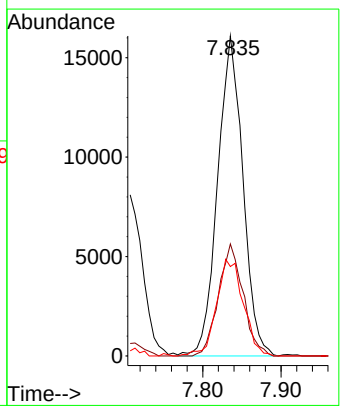
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

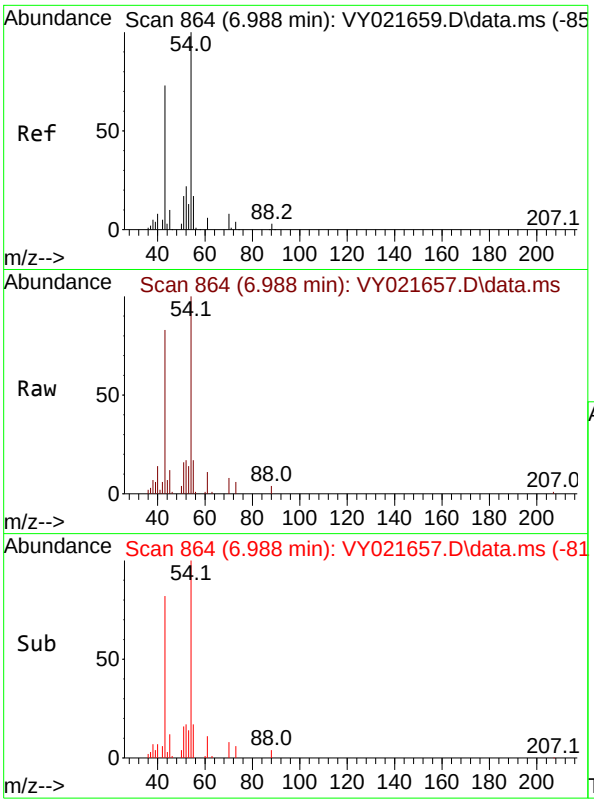


#36
1,1-Dichloropropene
Concen: 10.304 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 75 Resp: 36121

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.0	50.9
77	32.0	24.8	37.2





#37
Ethyl Acetate
Concen: 10.969 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

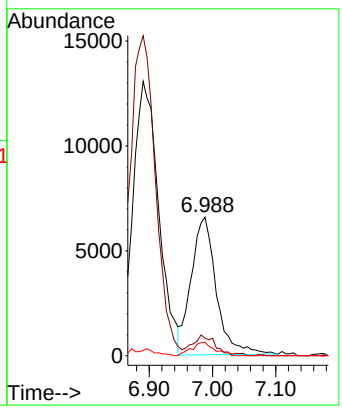
Tgt Ion: 43 Resp: 1814

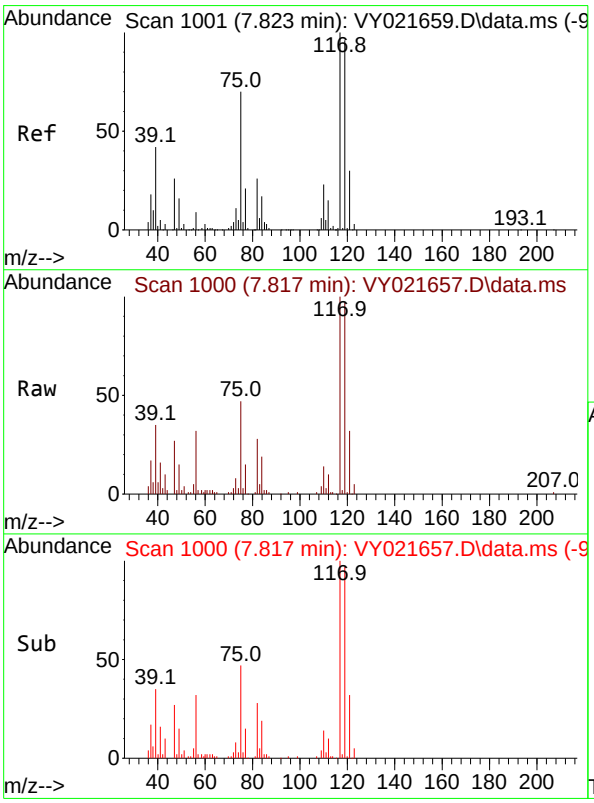
Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.0	16.6
70	8.8	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

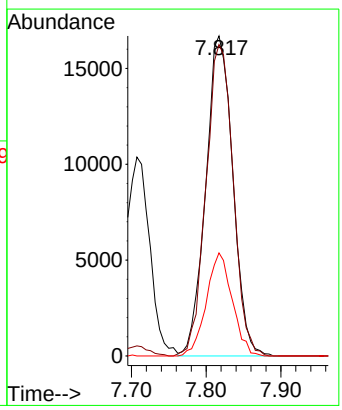


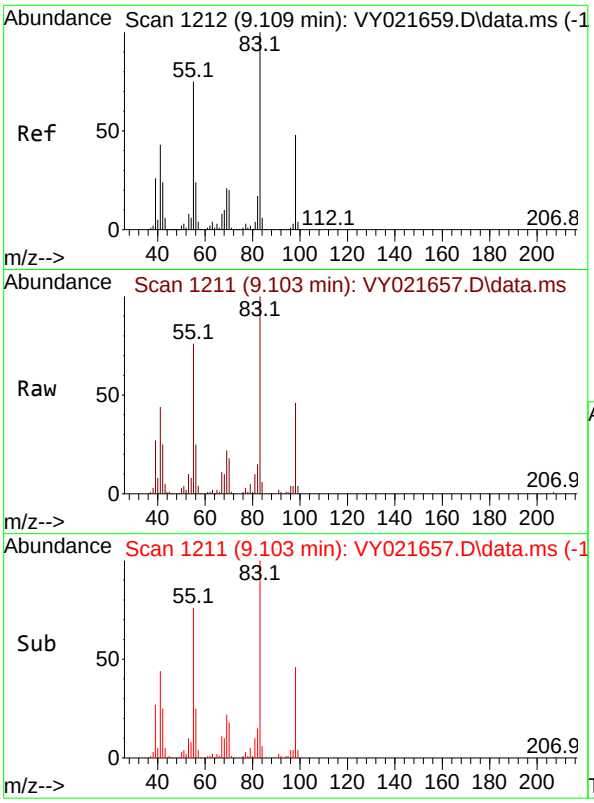


#38
Carbon Tetrachloride
Concen: 10.496 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:117 Resp: 42141

Ion	Ratio	Lower	Upper
117	100		
119	97.3	76.2	114.4
121	32.2	24.2	36.4





#39
Methylcyclohexane
Concen: 10.147 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

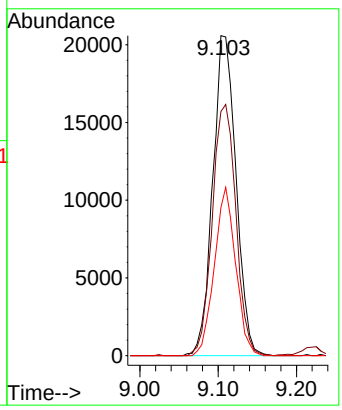
Tgt Ion: 83 Resp: 4249

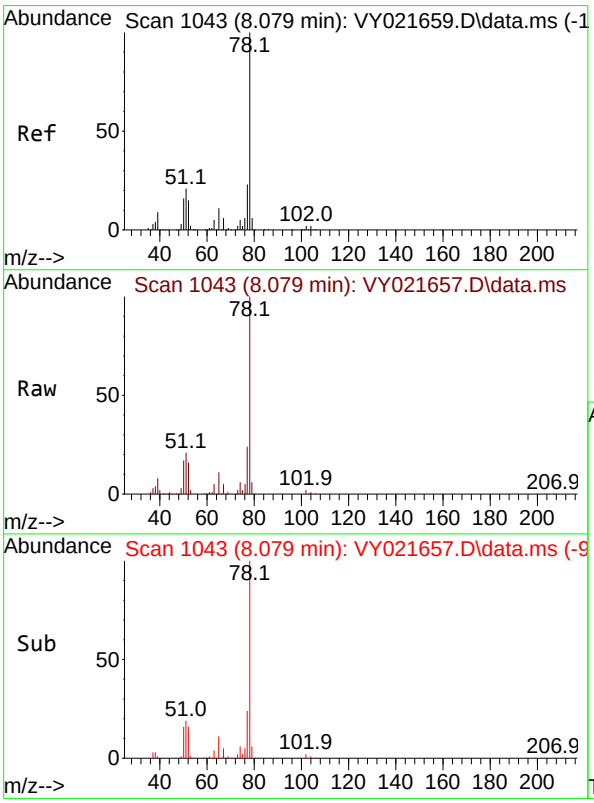
Ion	Ratio	Lower	Upper
83	100		
55	76.3	59.7	89.5
98	46.3	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

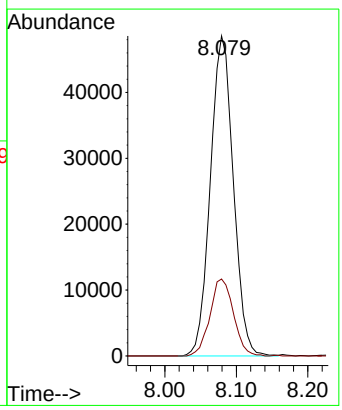


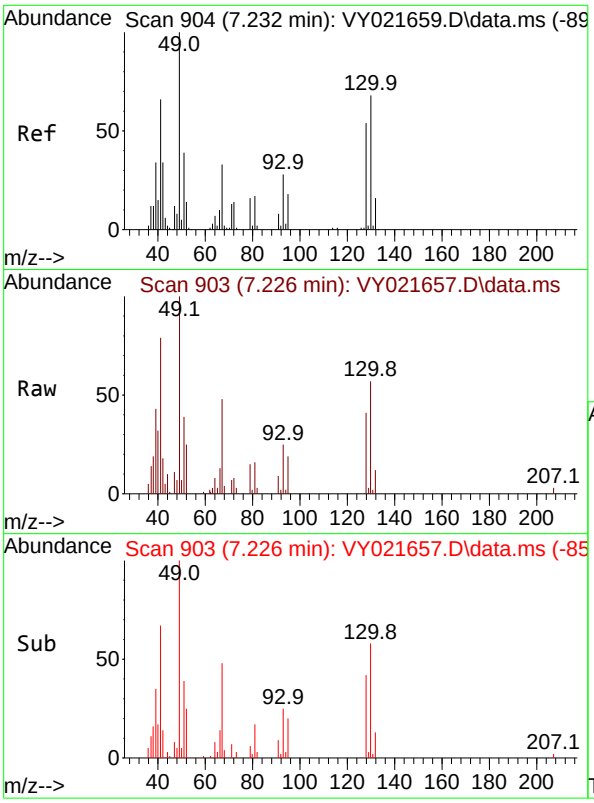


#40
Benzene
Concen: 10.322 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 78 Resp: 108360

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

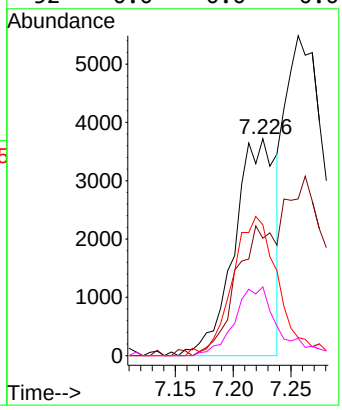




#41
Methacrylonitrile
Concen: 10.635 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 41 Resp: 934

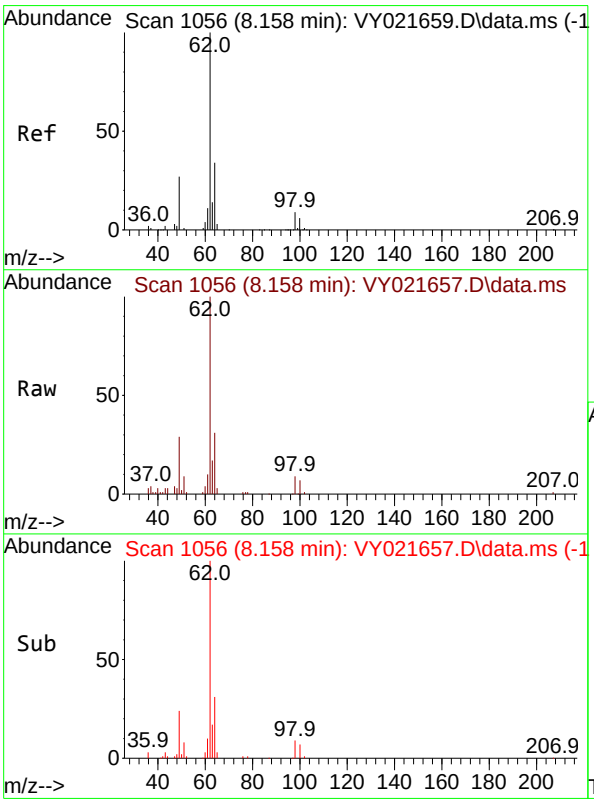
Ion	Ratio	Lower	Upper
41	100		
39	140.2	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

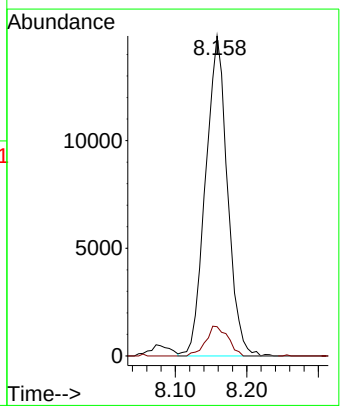
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

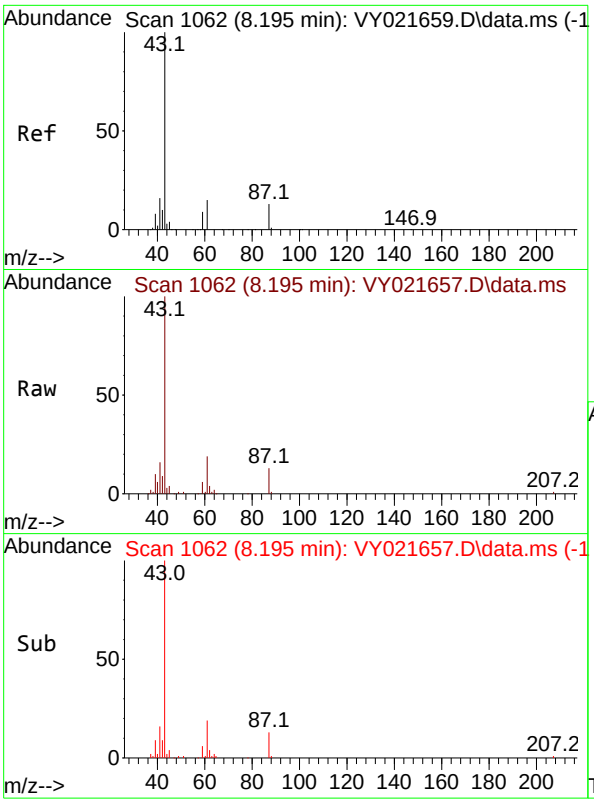


#42
1,2-Dichloroethane
Concen: 10.679 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 62 Resp: 31606

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.4

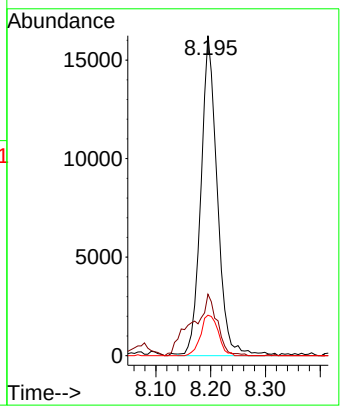




#43
Isopropyl Acetate
Concen: 10.738 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 43 Resp: 3366

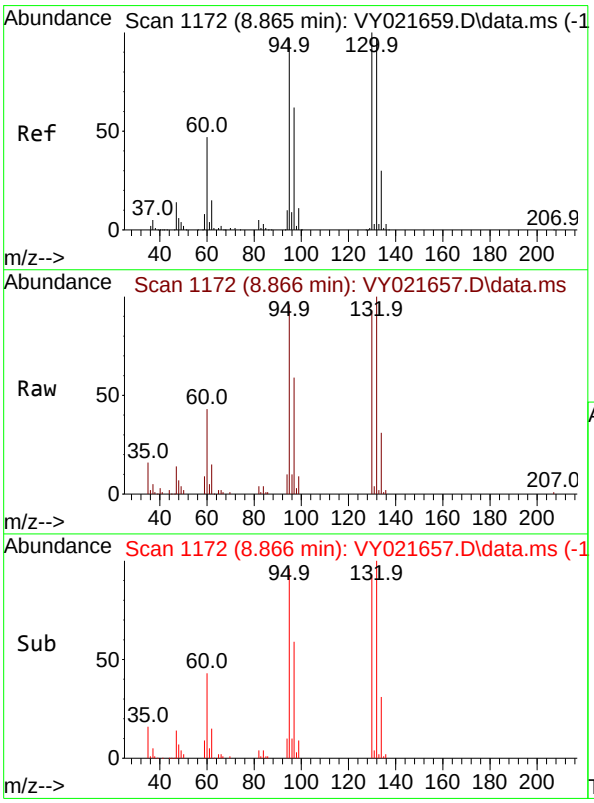
Ion	Ratio	Lower	Upper
43	100		
61	29.1	15.9	23.9
87	13.6	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

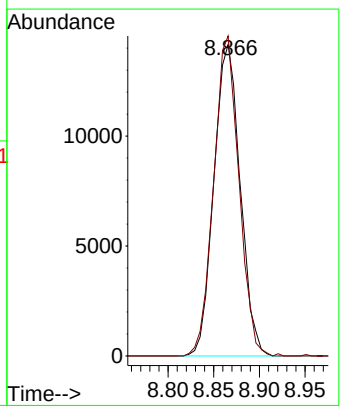
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

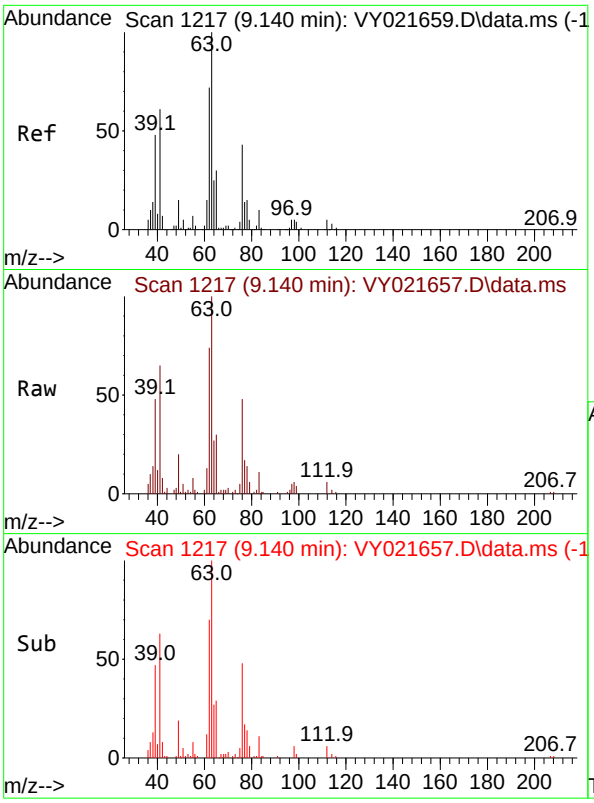


#44
Trichloroethene
Concen: 10.571 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:130 Resp: 28275

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	194.8

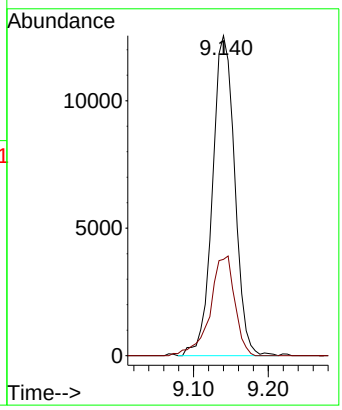




#45
1,2-Dichloropropane
Concen: 10.440 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 63 Resp: 2594

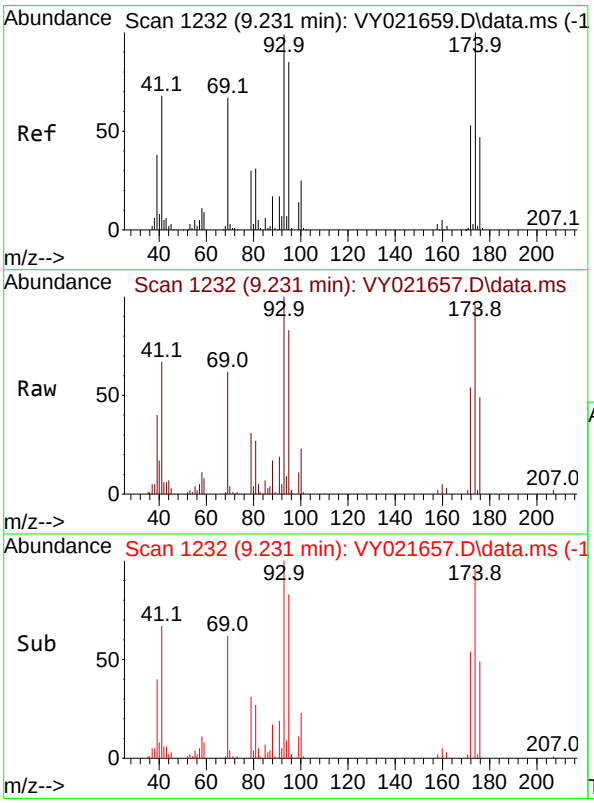
Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

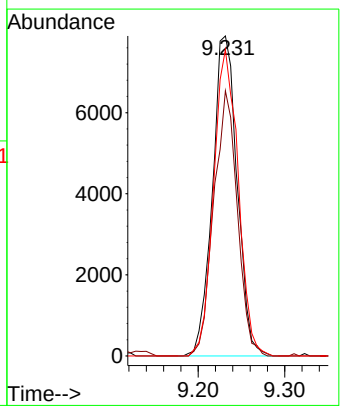
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

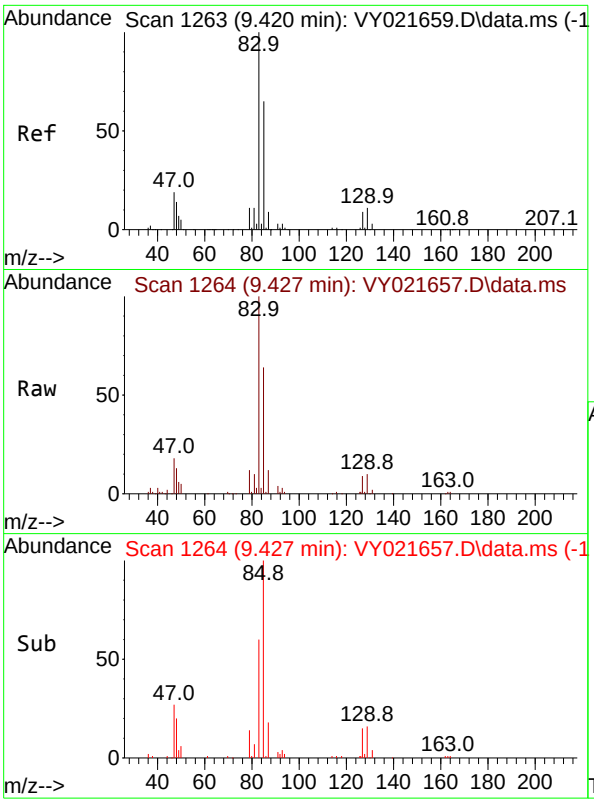


#46
Dibromomethane
Concen: 10.896 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 93 Resp: 15605

Ion	Ratio	Lower	Upper
93	100		
95	79.3	68.1	102.1
174	95.5	80.9	121.3

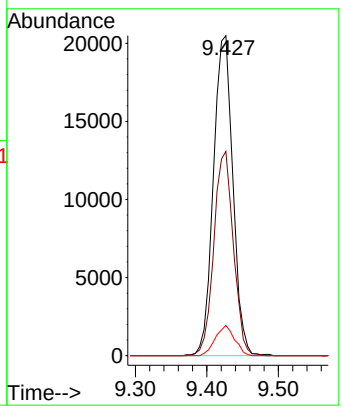




#47
Bromodichloromethane
Concen: 10.439 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 83 Resp: 3873

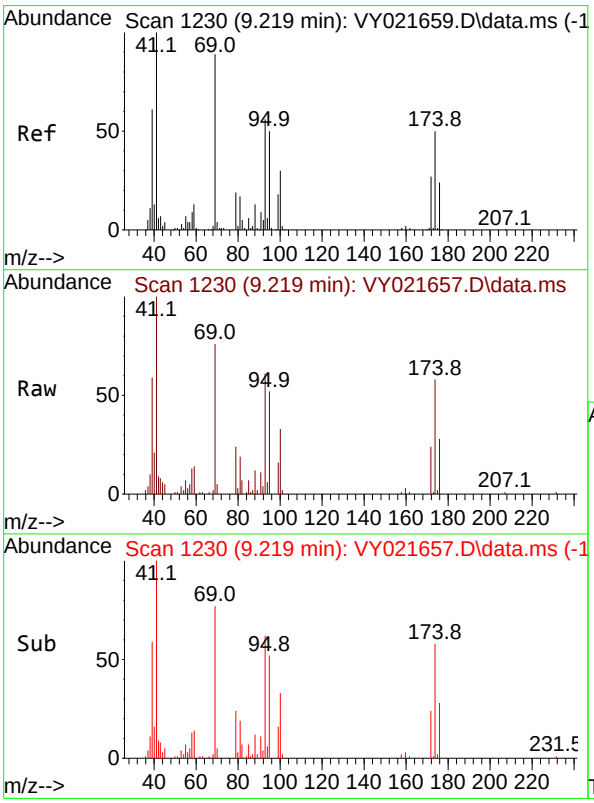
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.8	77.6
127	9.5	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

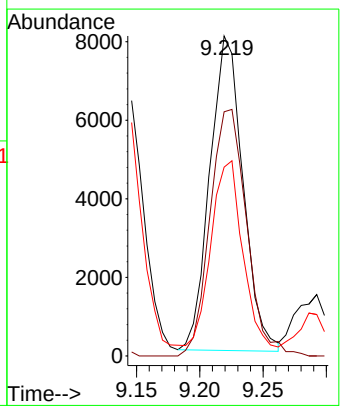
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

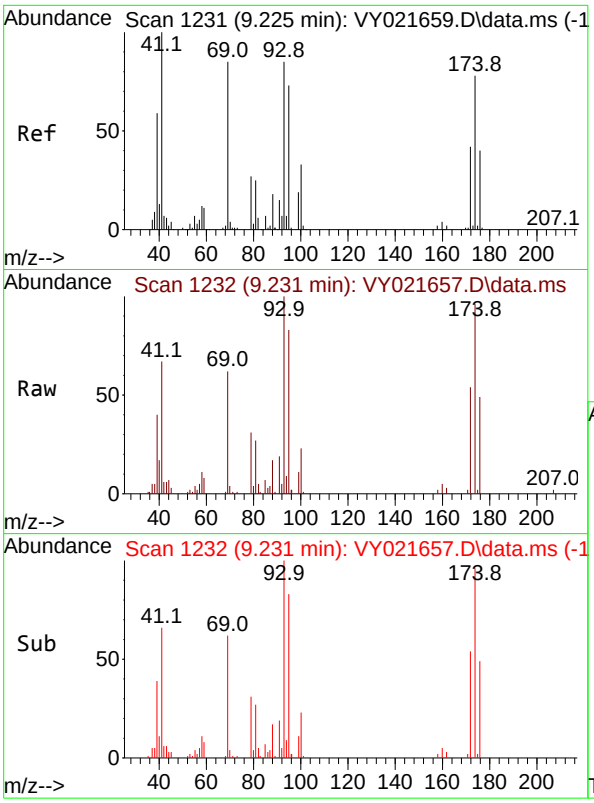


#48
Methyl methacrylate
Concen: 10.130 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 41 Resp: 14576

Ion	Ratio	Lower	Upper
41	100		
69	86.5	69.8	104.8
39	56.4	47.2	70.8

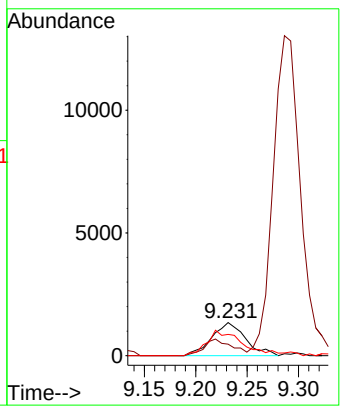




#49
1,4-Dioxane
Concen: 200.565 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 88 Resp: 307

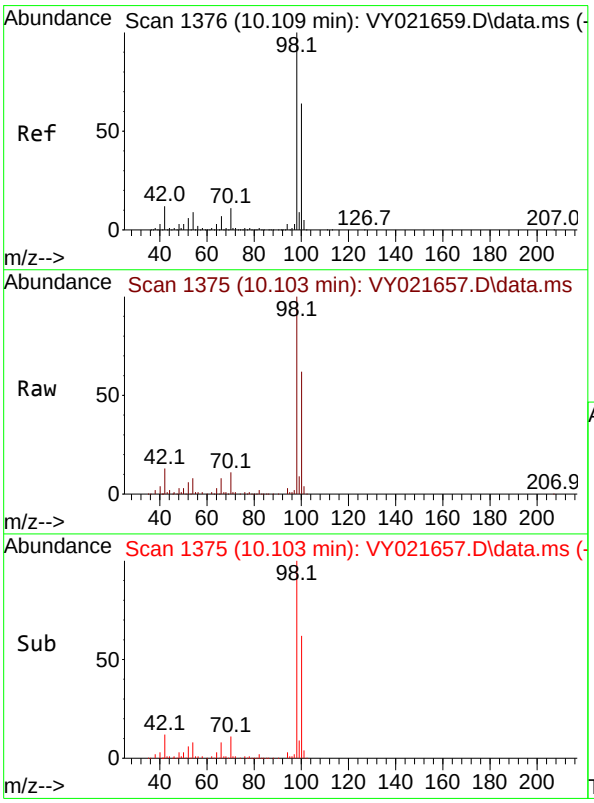
Ion	Ratio	Lower	Upper
88	100		
43	41.4	28.8	43.2
58	85.0	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

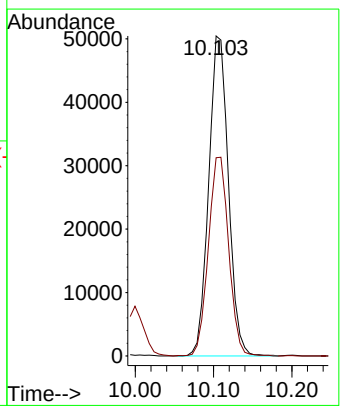
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

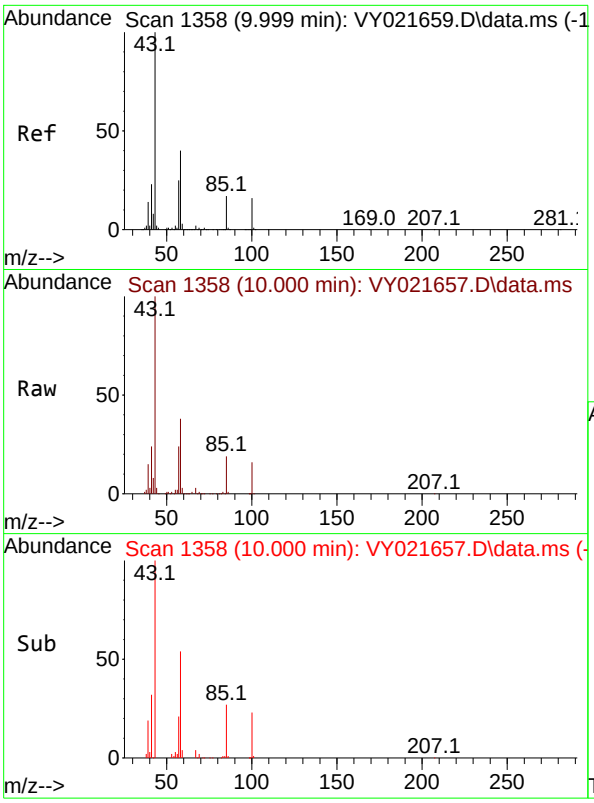


#50
Toluene-d8
Concen: 10.051 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 98 Resp: 88000

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

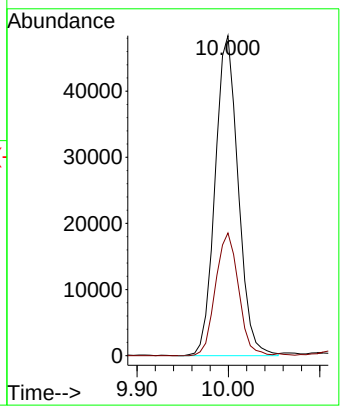




#51
4-Methyl-2-Pentanone
Concen: 52.111 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 43 Resp: 8502

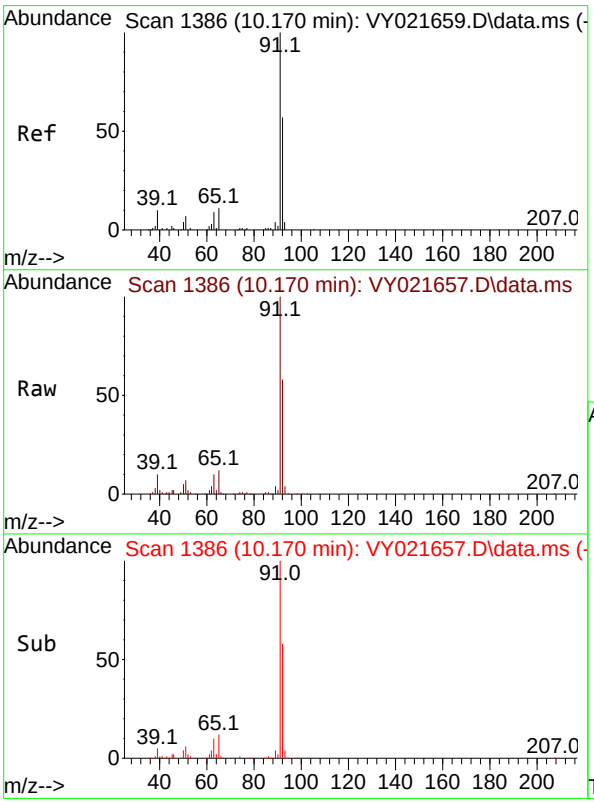
Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

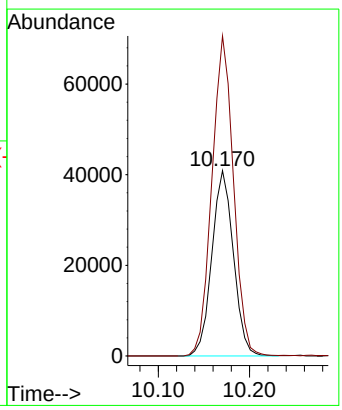
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

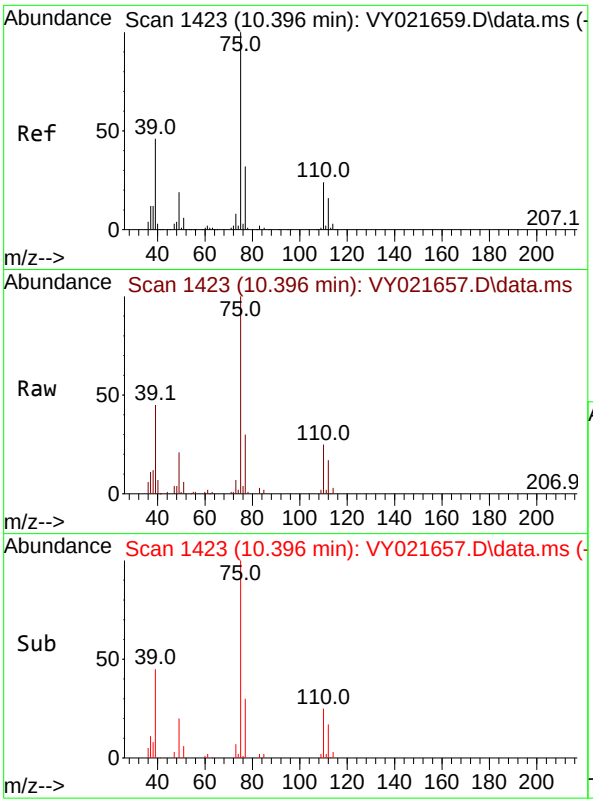


#52
Toluene
Concen: 10.212 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 92 Resp: 66889

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.6	207.8

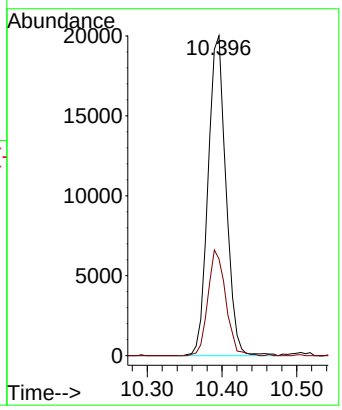




#53
t-1,3-Dichloropropene
Concen: 10.120 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 75 Resp: 3335

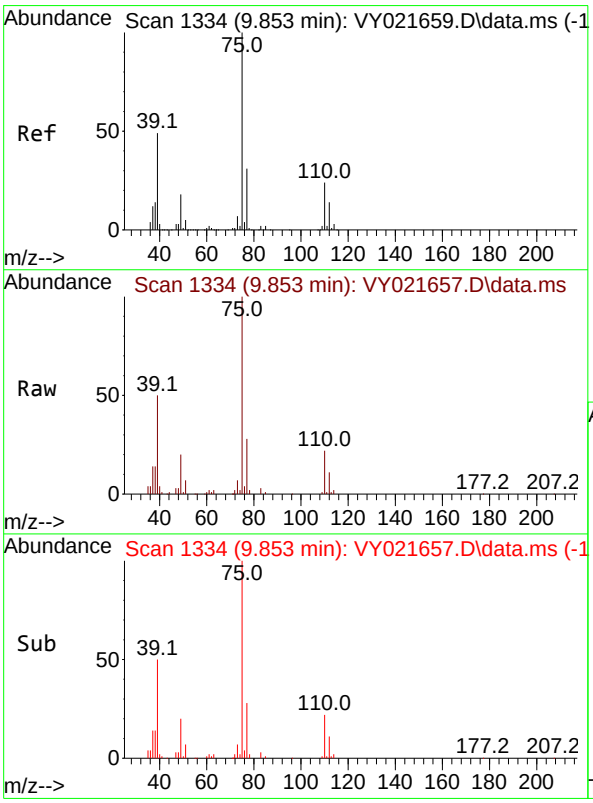
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

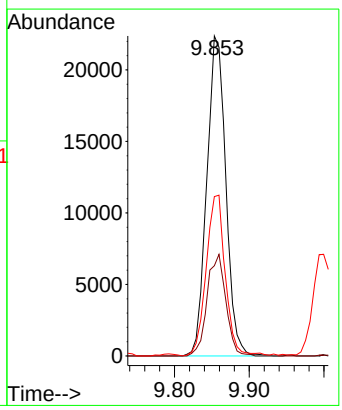
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

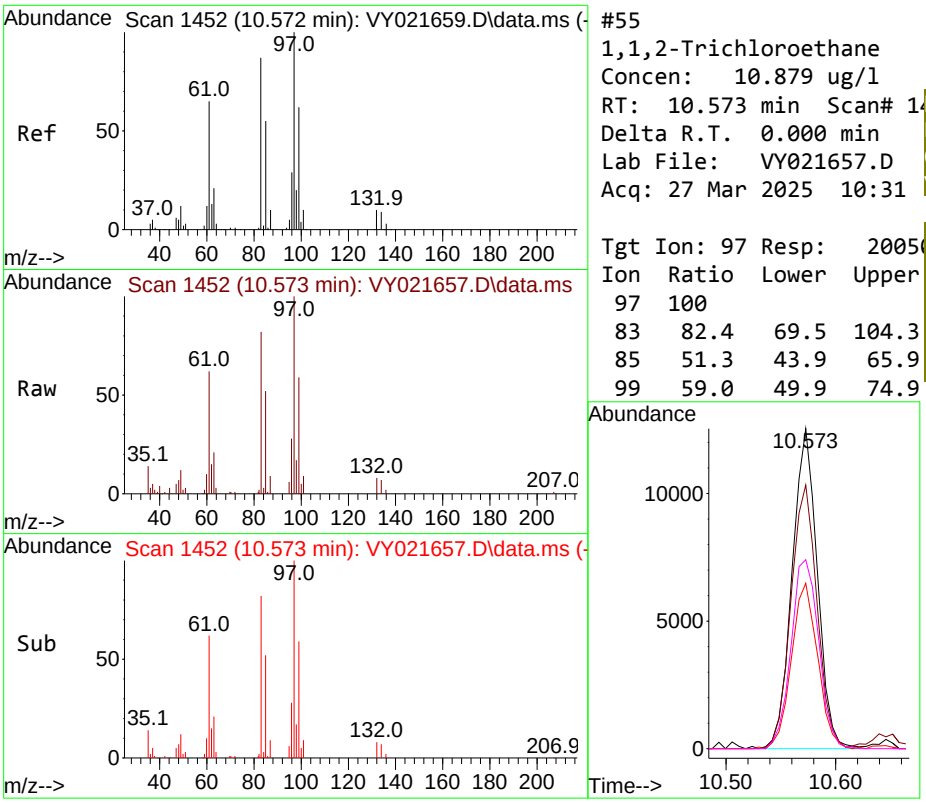


#54
cis-1,3-Dichloropropene
Concen: 10.186 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 75 Resp: 39609

Ion	Ratio	Lower	Upper
75	100		
77	28.2	24.9	37.3
39	49.6	39.2	58.8





#55
1,1,2-Trichloroethane
Concen: 10.879 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

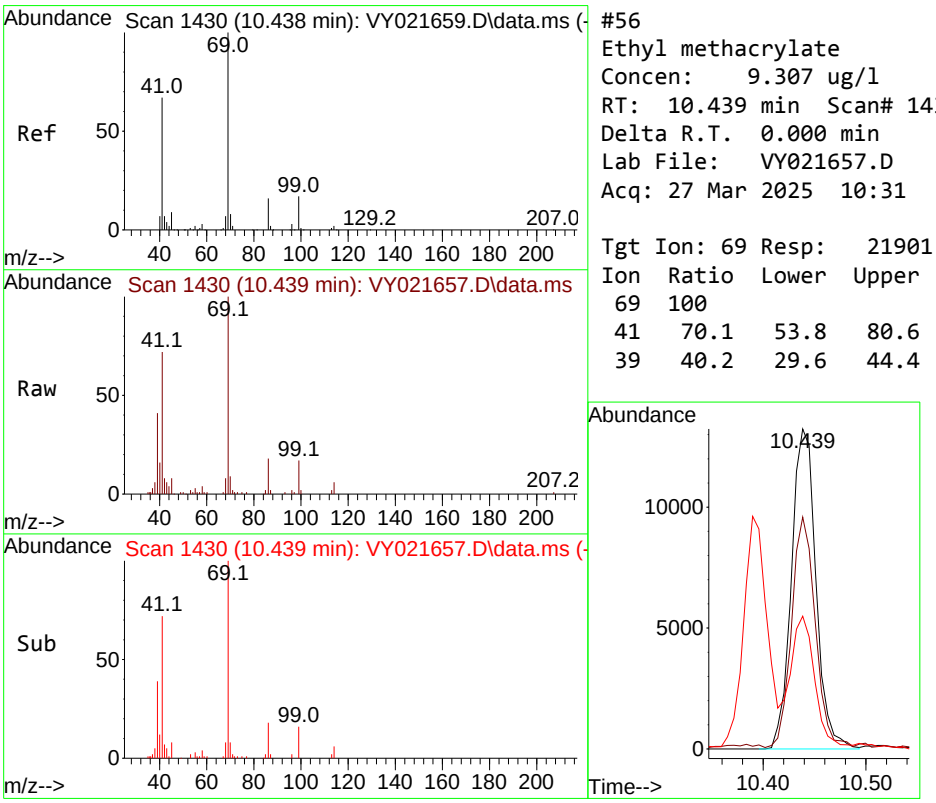
Tgt Ion: 97 Resp: 2005

Ion	Ratio	Lower	Upper
97	100		
83	82.4	69.5	104.3
85	51.3	43.9	65.9
99	59.0	49.9	74.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

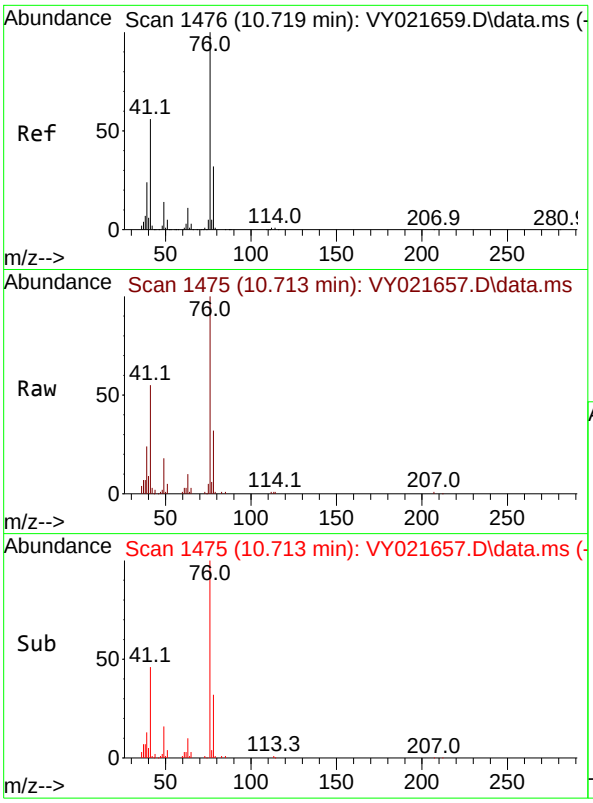
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#56
Ethyl methacrylate
Concen: 9.307 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 69 Resp: 21901

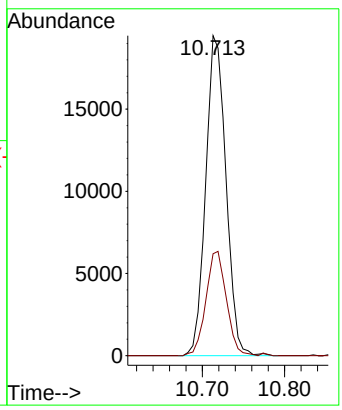
Ion	Ratio	Lower	Upper
69	100		
41	70.1	53.8	80.6
39	40.2	29.6	44.4



#57
1,3-Dichloropropane
Concen: 10.467 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 76 Resp: 3331

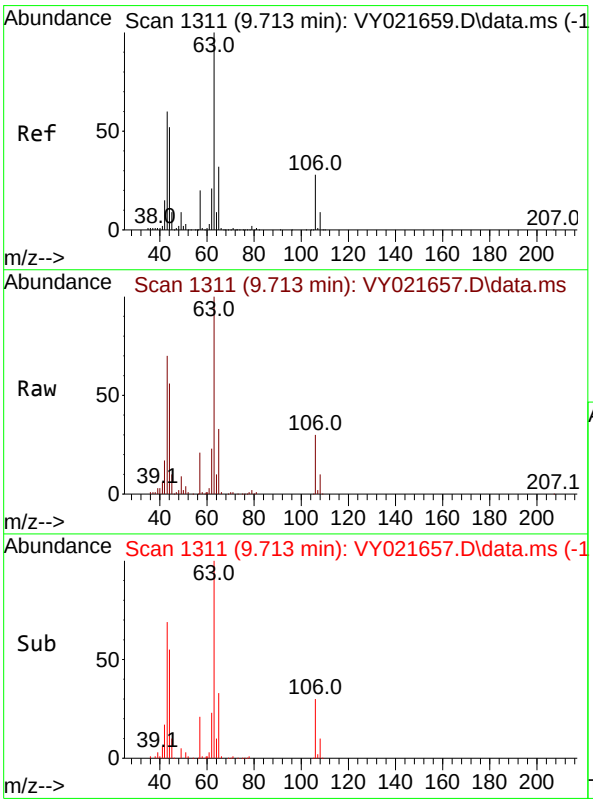
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

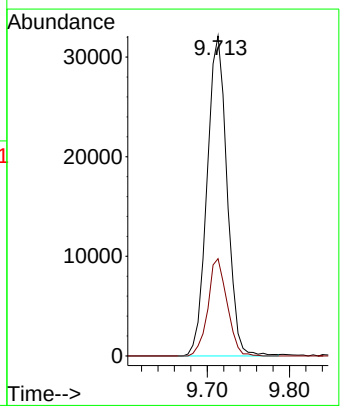
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

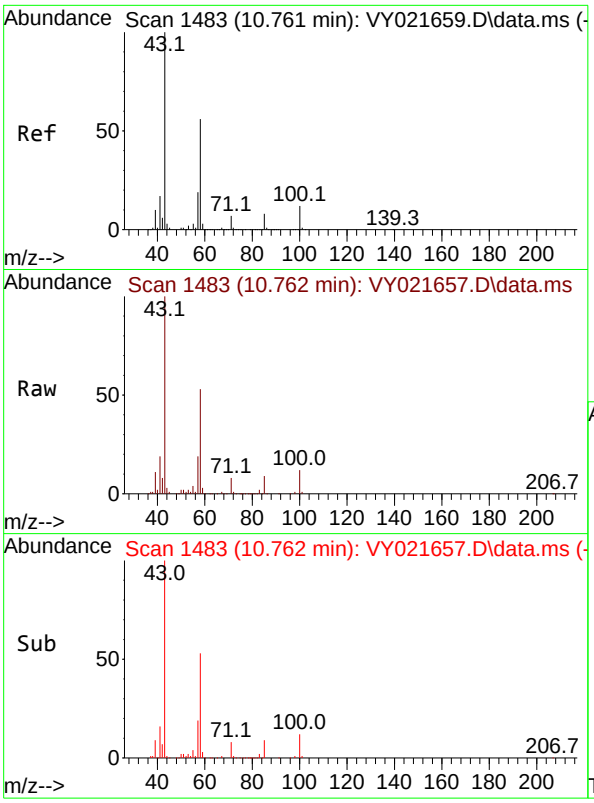


#58
2-Chloroethyl Vinyl ether
Concen: 47.274 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 63 Resp: 54271

Ion	Ratio	Lower	Upper
63	100		
106	29.2	22.4	33.6





#59
2-Hexanone
Concen: 50.295 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

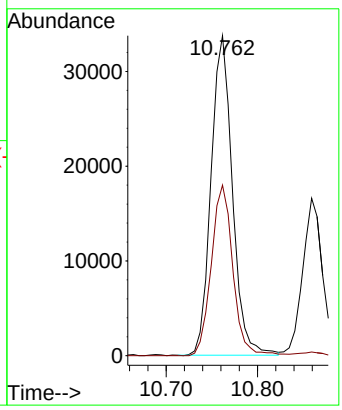
Tgt Ion: 43 Resp: 5464

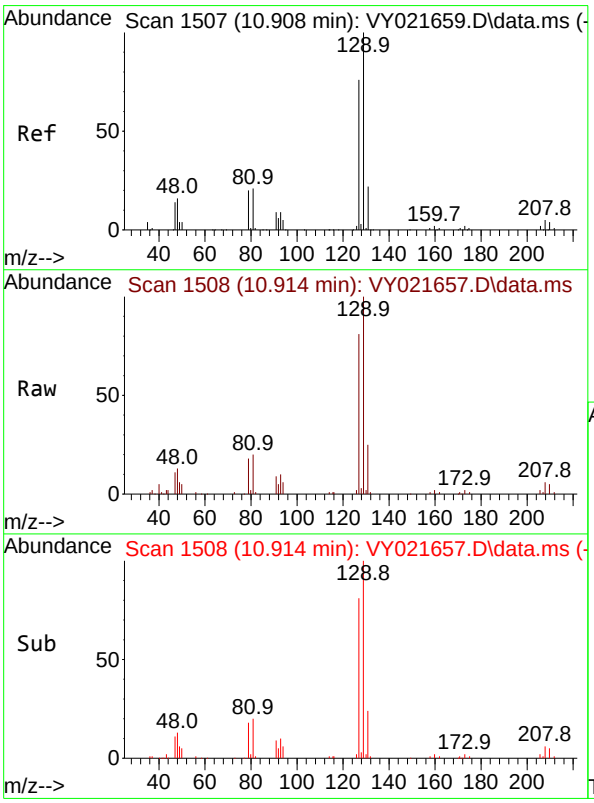
Ion	Ratio	Lower	Upper
43	100		
58	54.0	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

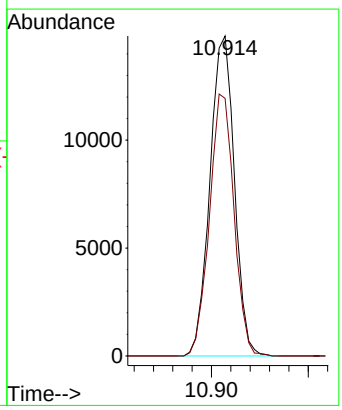


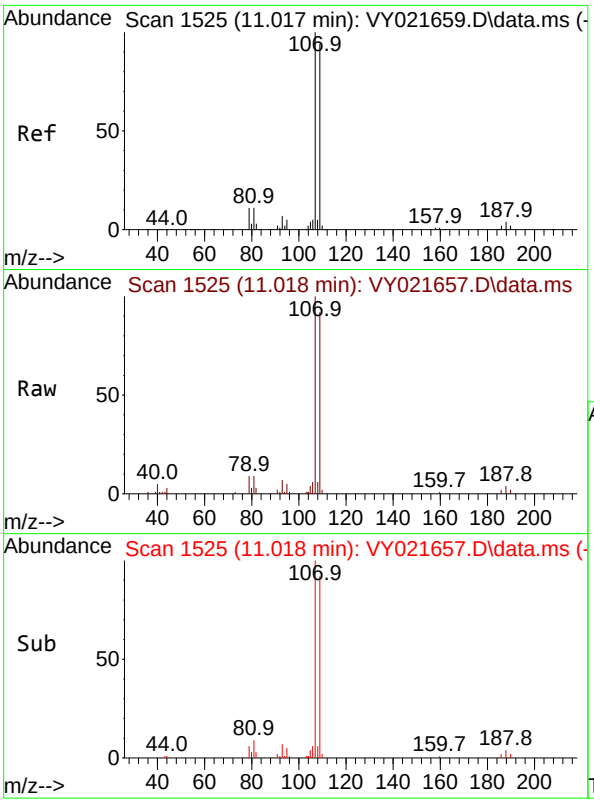


#60
Dibromochloromethane
Concen: 10.346 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:129 Resp: 26032

Ion	Ratio	Lower	Upper
129	100		
127	82.2	38.6	115.7

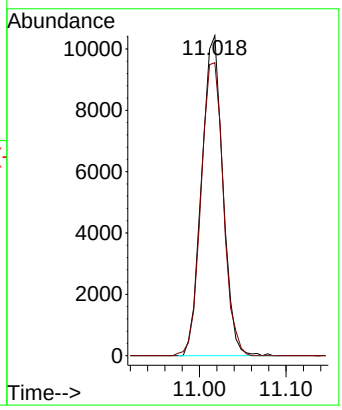




#61
1,2-Dibromoethane
Concen: 10.251 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:107 Resp: 1772

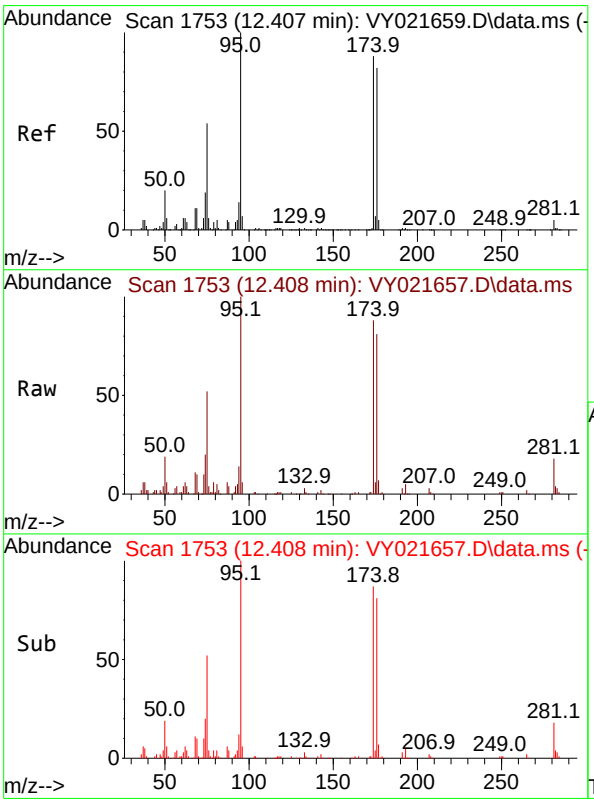
Ion	Ratio	Lower	Upper
107	100		
109	96.3	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

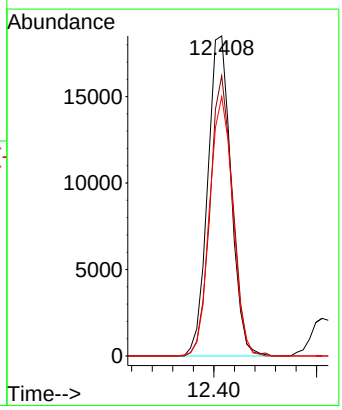
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

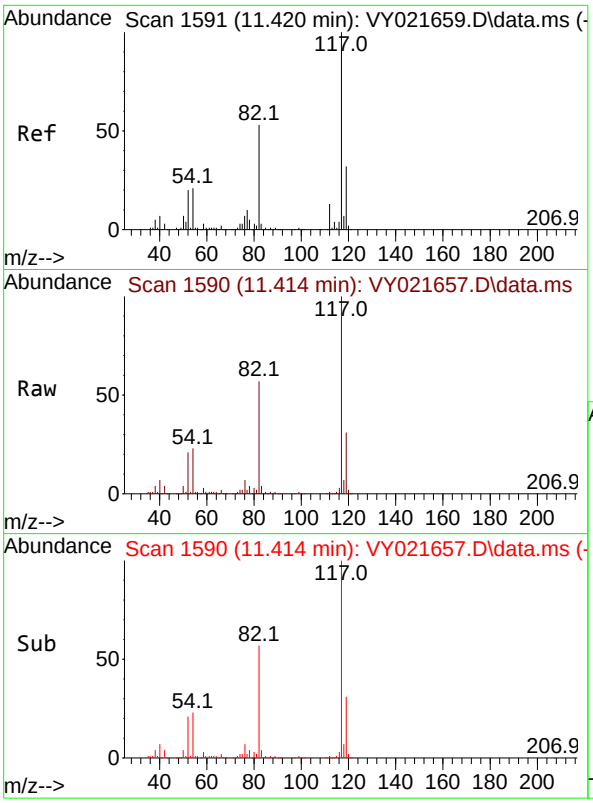


#62
4-Bromofluorobenzene
Concen: 9.835 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 95 Resp: 29125

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	170.8
176	81.1	0.0	162.0

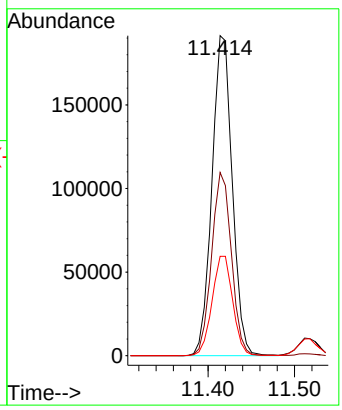




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:117 Resp: 31173

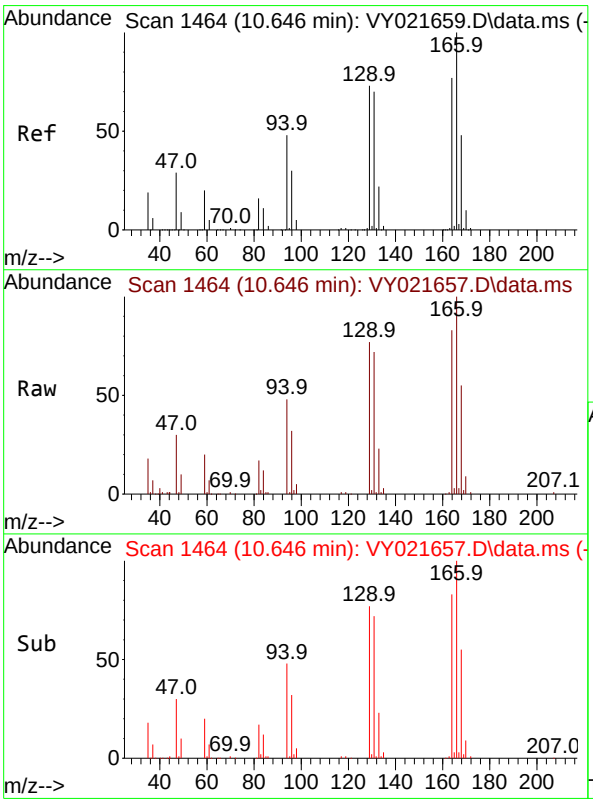
Ion	Ratio	Lower	Upper
117	100		
82	57.2	42.8	64.2
119	31.0	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

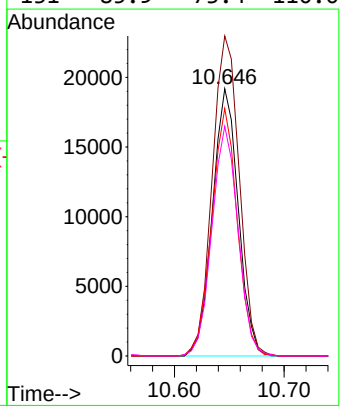
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

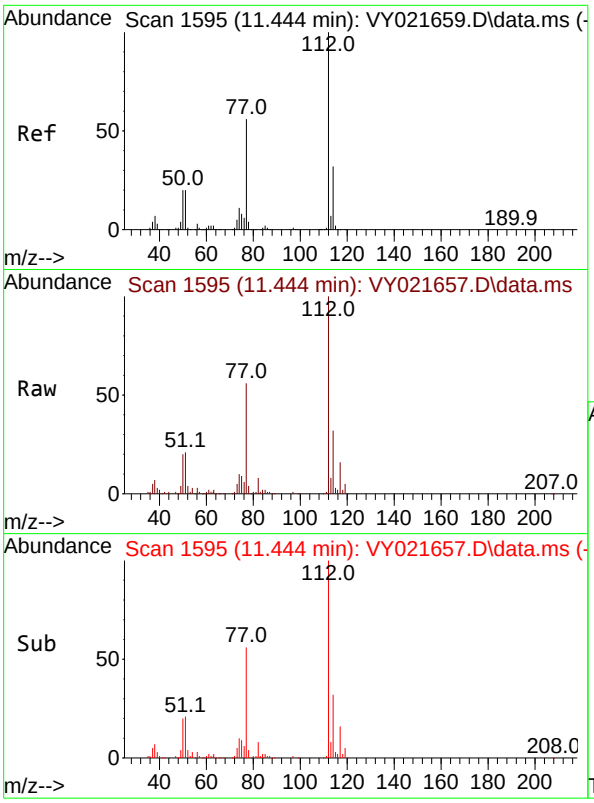


#64
Tetrachloroethene
Concen: 11.036 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:164 Resp: 31334

Ion	Ratio	Lower	Upper
164	100		
166	119.8	104.6	156.8
129	92.6	76.6	114.8
131	85.9	73.4	110.0

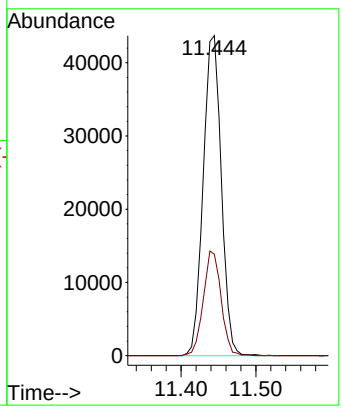




#65
Chlorobenzene
Concen: 10.276 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:112 Resp: 7343

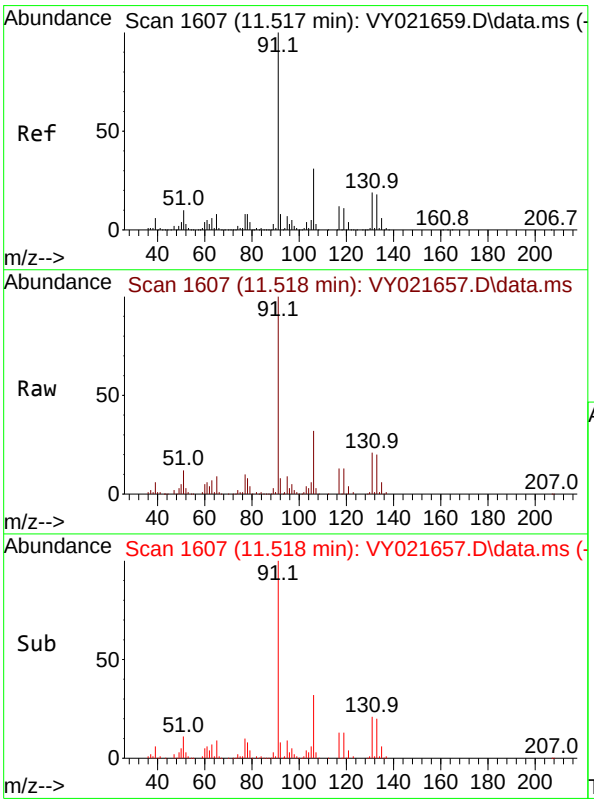
Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

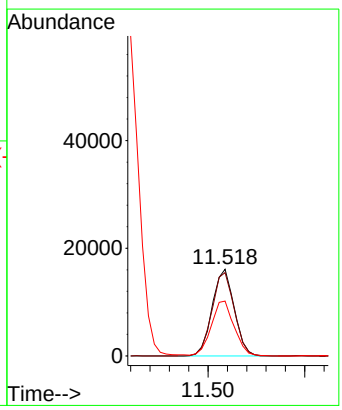
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

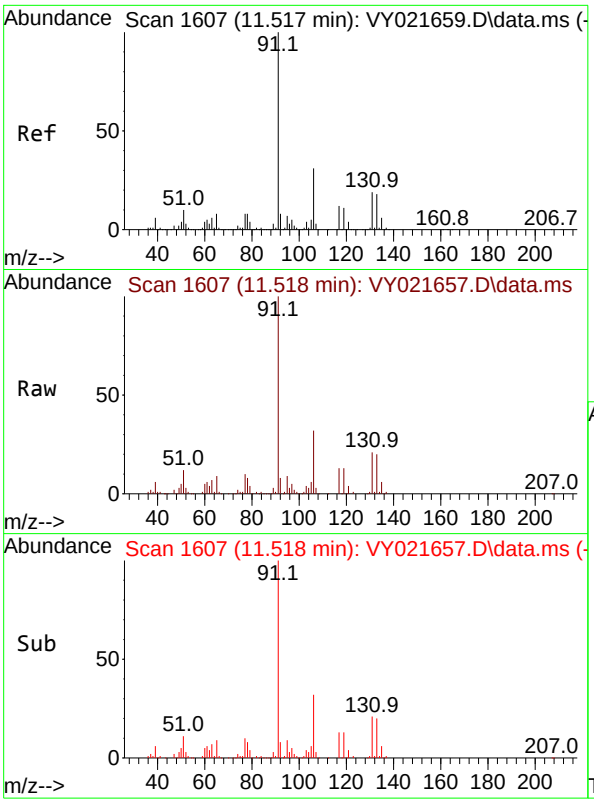


#66
1,1,1,2-Tetrachloroethane
Concen: 10.060 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:131 Resp: 25506

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.3	141.8
119	65.9	31.6	95.0





#67
Ethyl Benzene
Concen: 9.750 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

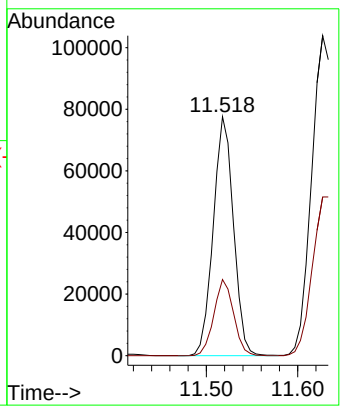
Tgt Ion: 91 Resp: 11948

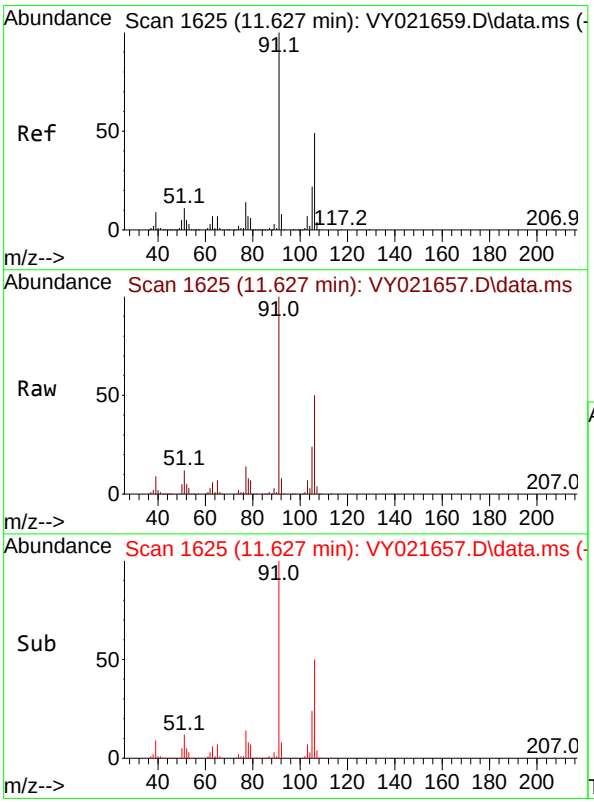
Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.6	36.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

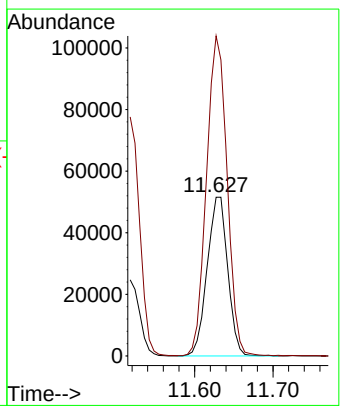


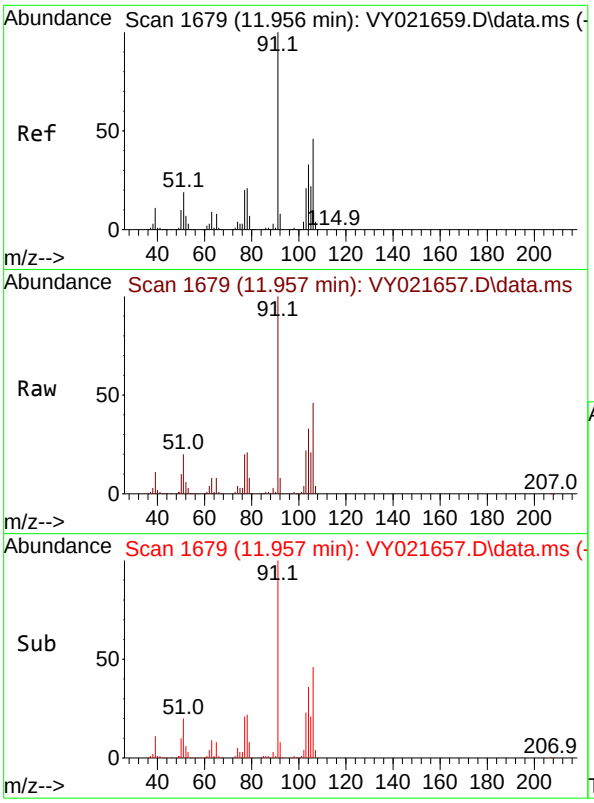


#68
m/p-Xylenes
Concen: 20.009 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:106 Resp: 93887

Ion	Ratio	Lower	Upper
106	100		
91	201.5	162.4	243.6

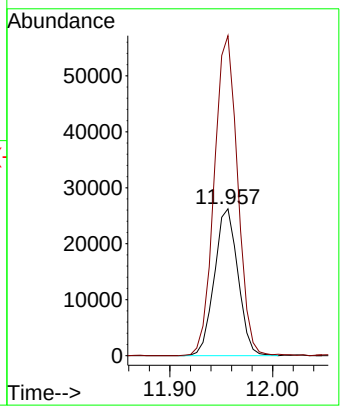




#69
o-Xylene
Concen: 9.643 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:106 Resp: 4176

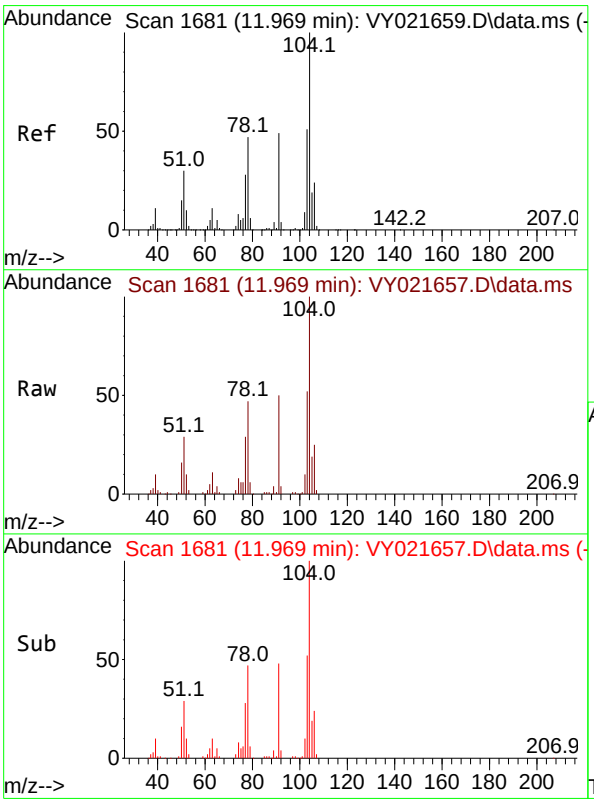
Ion	Ratio	Lower	Upper
106	100		
91	216.6	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

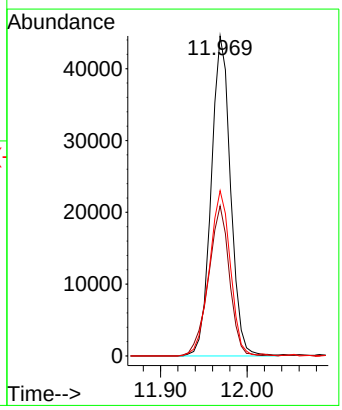
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

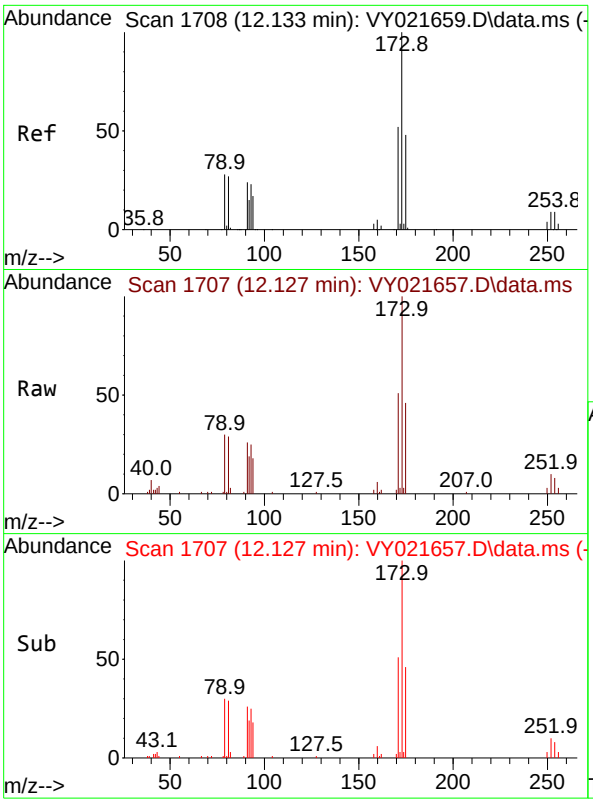


#70
Styrene
Concen: 9.581 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:104 Resp: 69196

Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.8	61.2
103	56.1	44.2	66.2

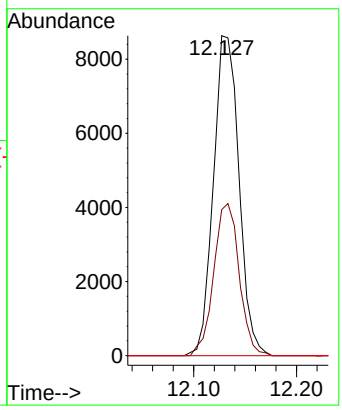




#71
Bromoform
Concen: 10.294 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:173 Resp: 1488

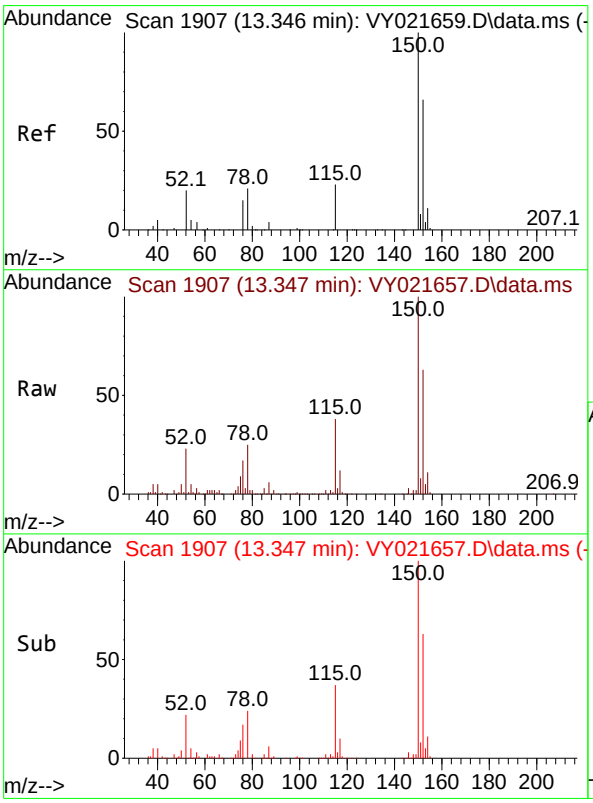
Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.3	73.0
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

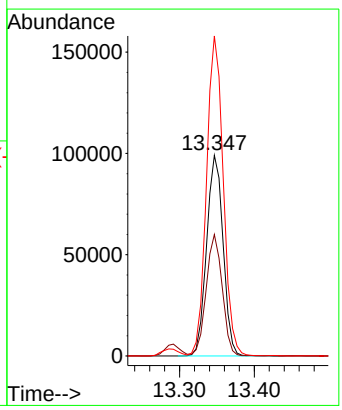
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

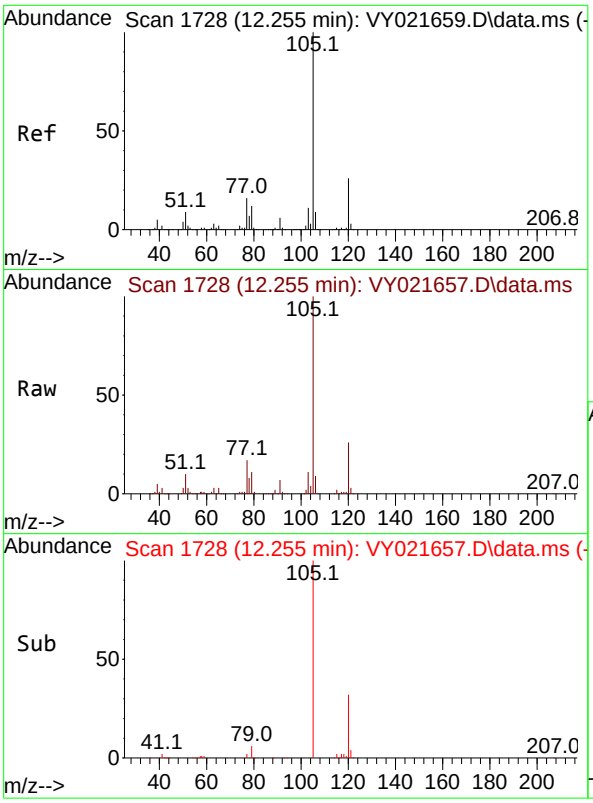


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:152 Resp: 152005

Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.8	86.5
150	161.6	0.0	348.4

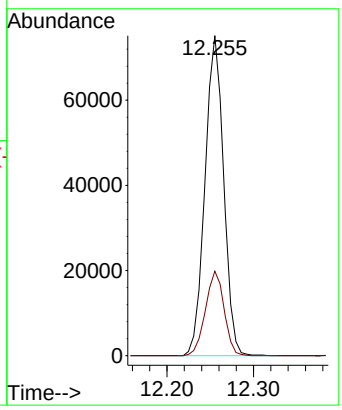




#73
Isopropylbenzene
Concen: 9.966 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:105 Resp: 11251

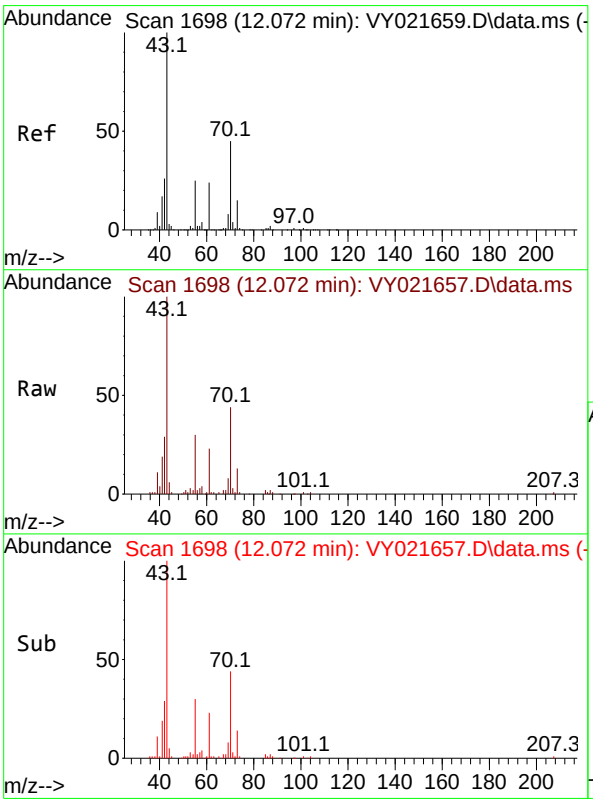
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

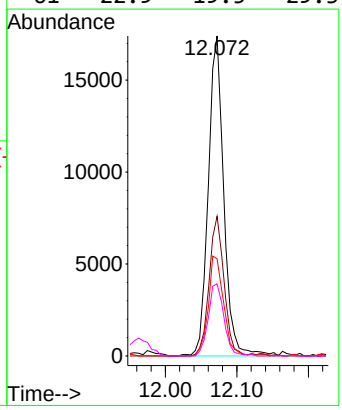
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

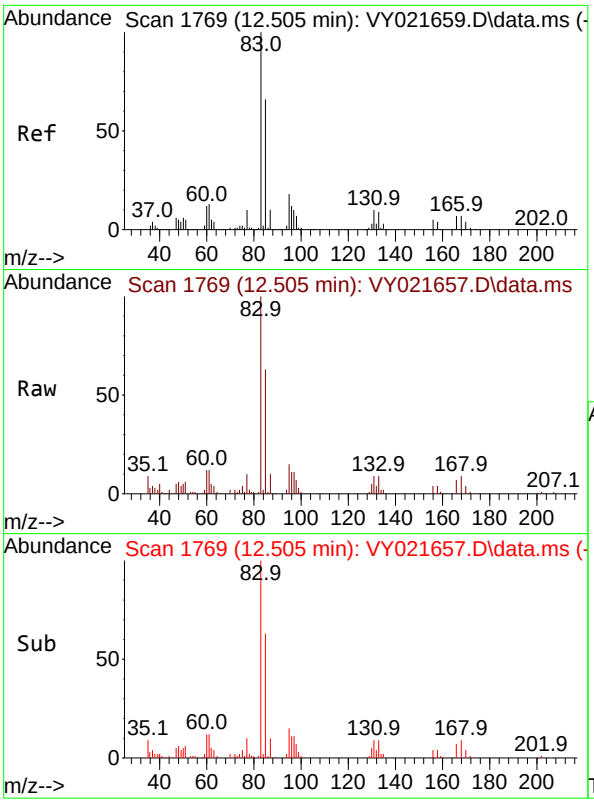


#74
N-amyl acetate
Concen: 9.910 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 43 Resp: 26259

Ion	Ratio	Lower	Upper
43	100		
70	41.9	34.7	52.1
55	30.8	21.2	31.8
61	22.9	19.5	29.3

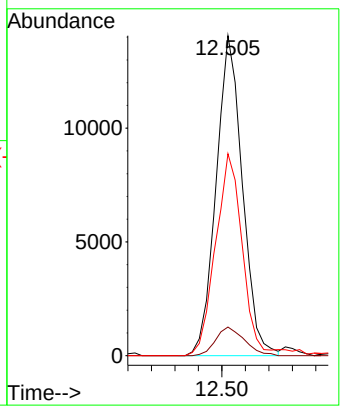




#75
1,1,2,2-Tetrachloroethane
Concen: 10.781 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 83 Resp: 2188

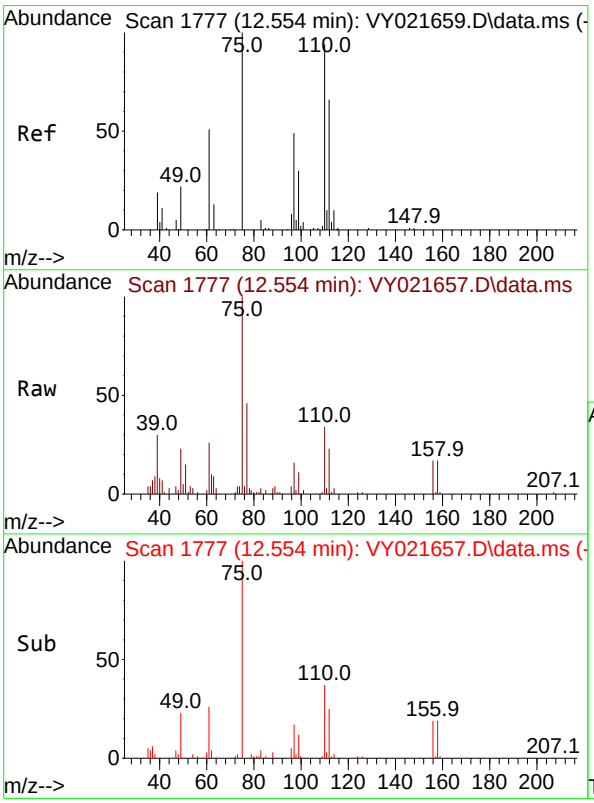
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.3
85	65.8	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

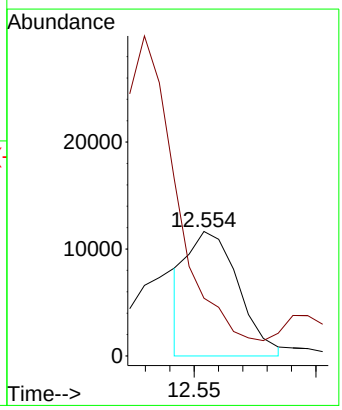
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

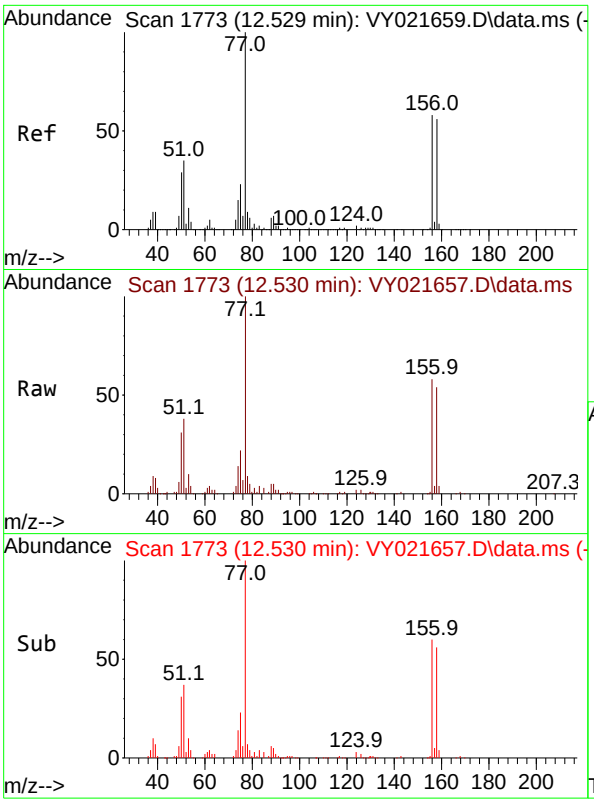


#76
1,2,3-Trichloropropane
Concen: 11.300 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 75 Resp: 17026

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

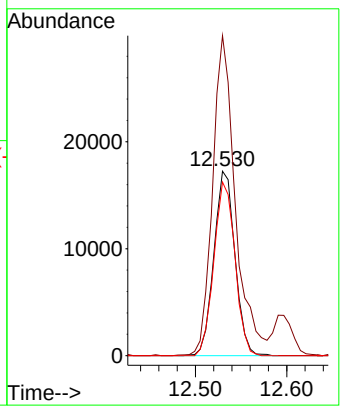




#77
Bromobenzene
Concen: 10.199 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:156 Resp: 2764

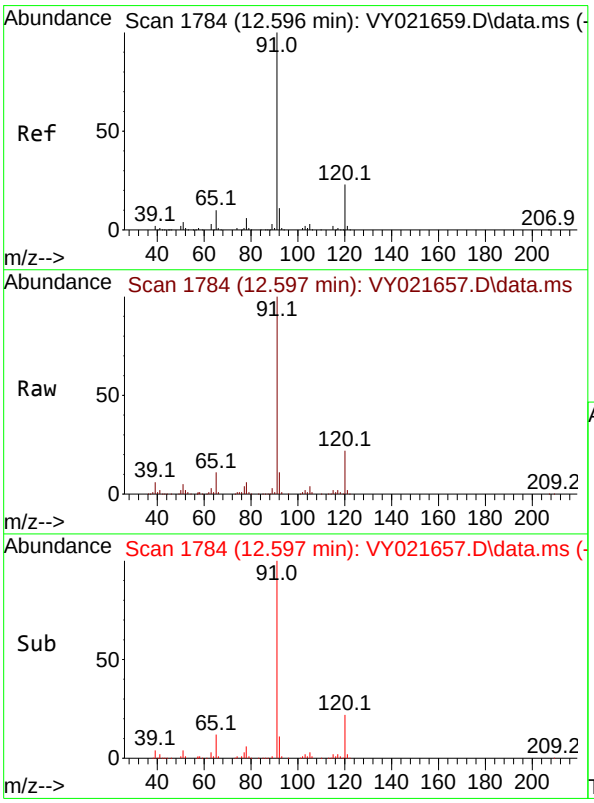
Ion	Ratio	Lower	Upper
156	100		
77	187.1	92.8	278.3
158	94.2	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

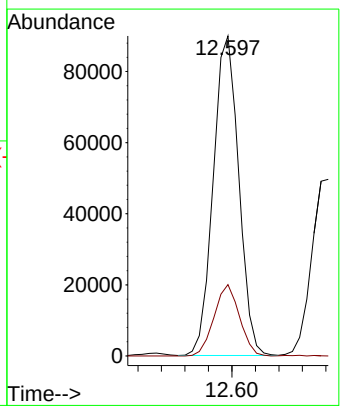
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

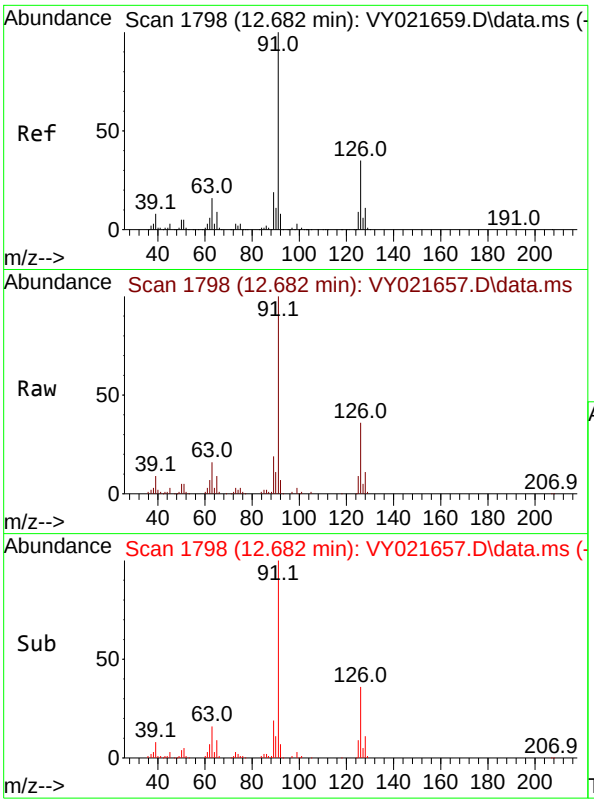


#78
n-propylbenzene
Concen: 9.983 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 91 Resp: 135498

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.9

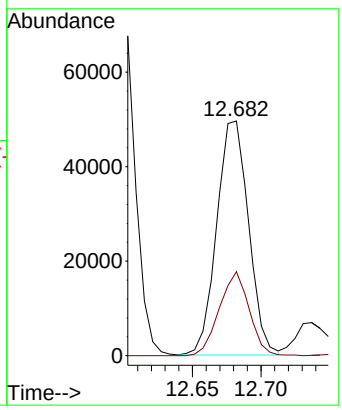




#79
2-Chlorotoluene
Concen: 10.158 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 91 Resp: 8007

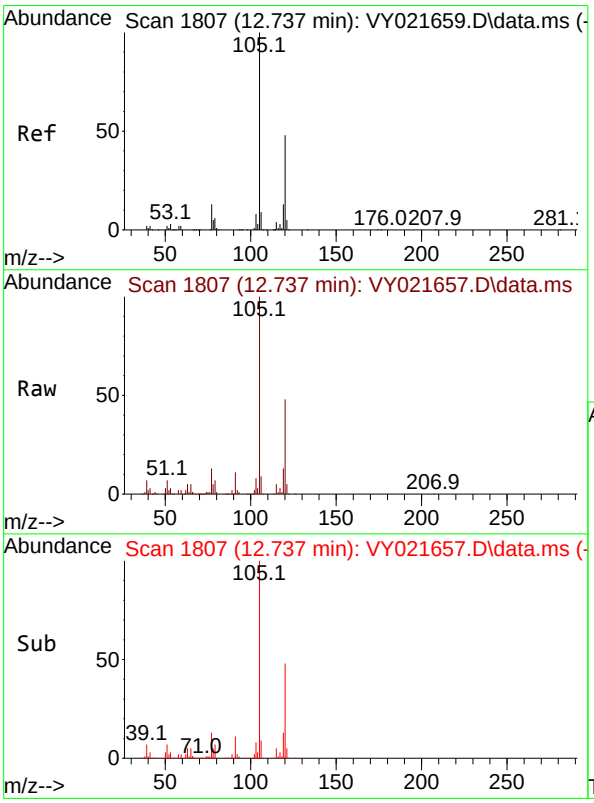
Ion	Ratio	Lower	Upper
91	100		
126	33.6	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

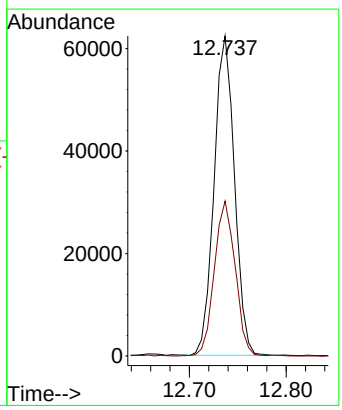
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

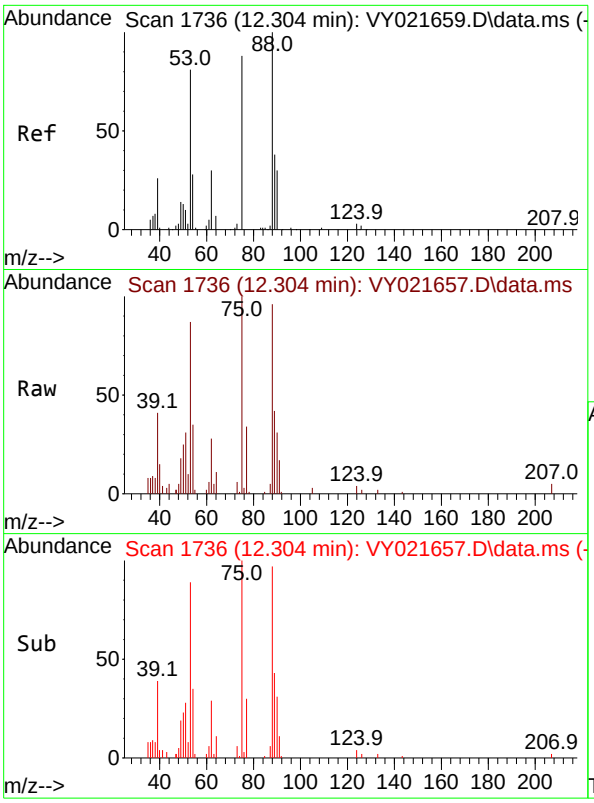


#80
1,3,5-Trimethylbenzene
Concen: 9.888 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:105 Resp: 91235

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.5	73.5

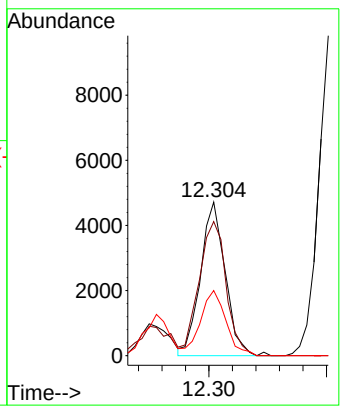




#81
trans-1,4-Dichloro-2-butene
Concen: 10.550 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 75 Resp: 689

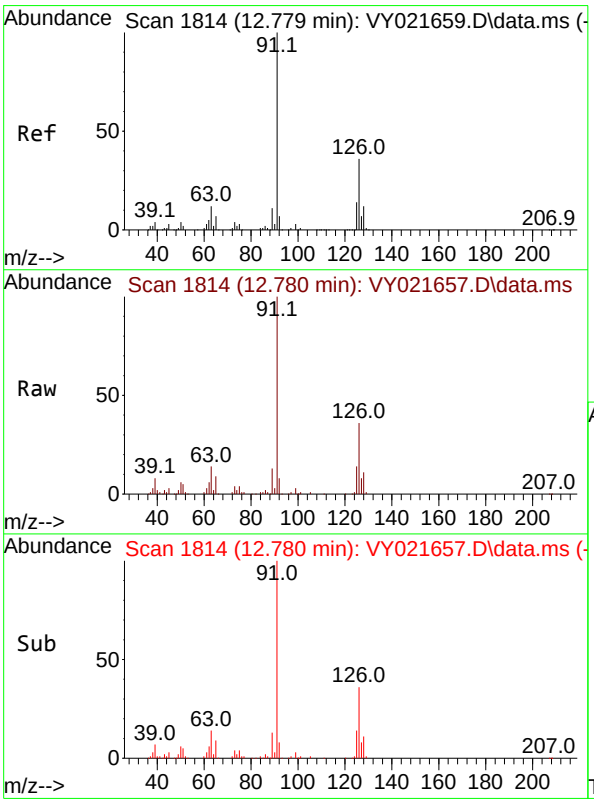
Ion	Ratio	Lower	Upper
75	100		
53	95.8	76.1	114.1
89	44.2	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

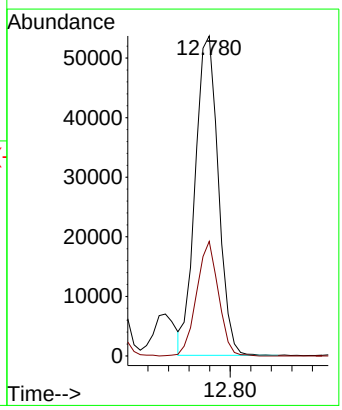
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

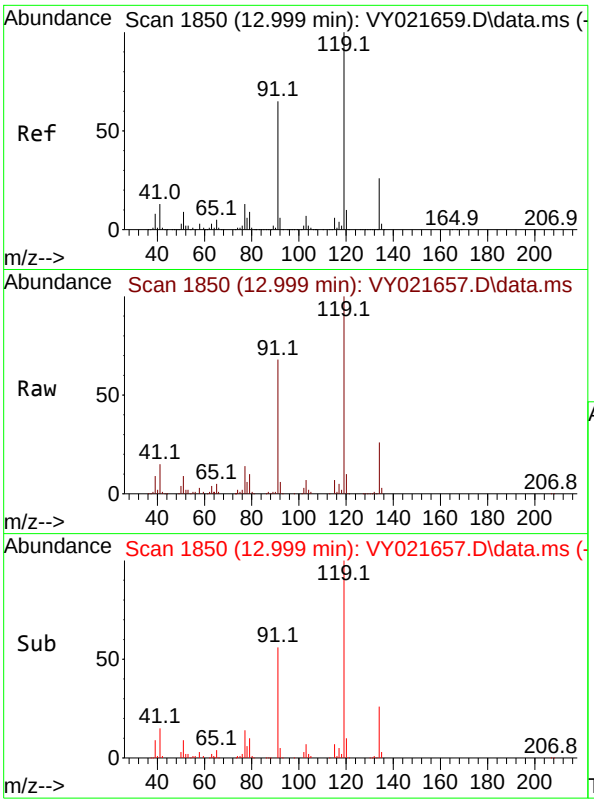


#82
4-Chlorotoluene
Concen: 10.157 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 91 Resp: 83484

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.0	50.9

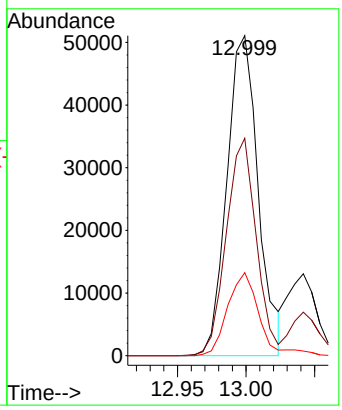




#83
tert-Butylbenzene
Concen: 9.892 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:119 Resp: 8129

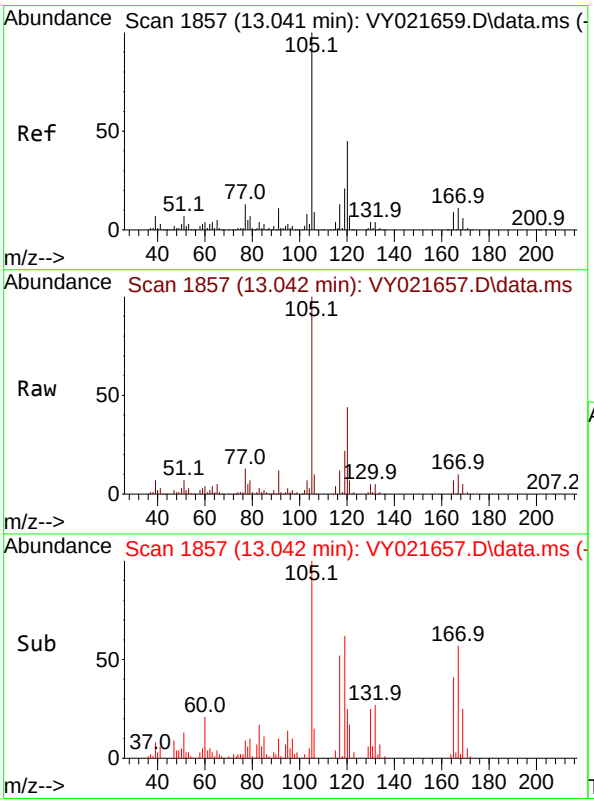
Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.6	97.7
134	26.2	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

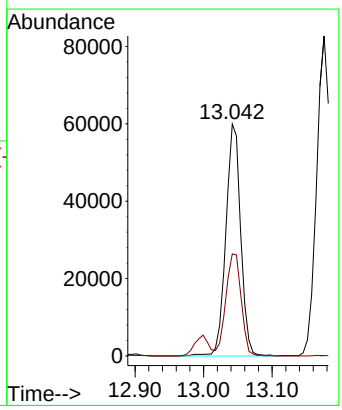
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

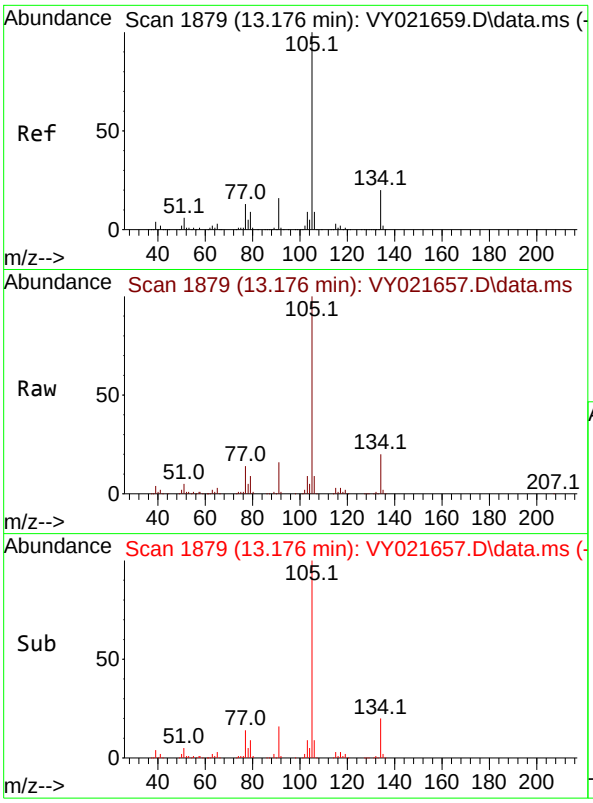


#84
1,2,4-Trimethylbenzene
Concen: 9.884 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:105 Resp: 90142

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.7	68.1

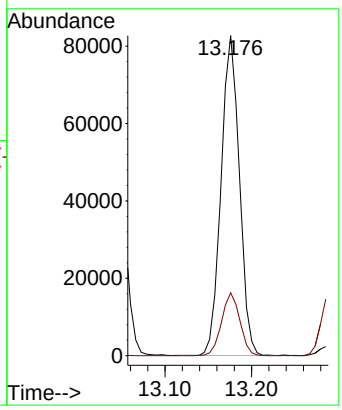




#85
sec-Butylbenzene
Concen: 10.122 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:105 Resp: 12157

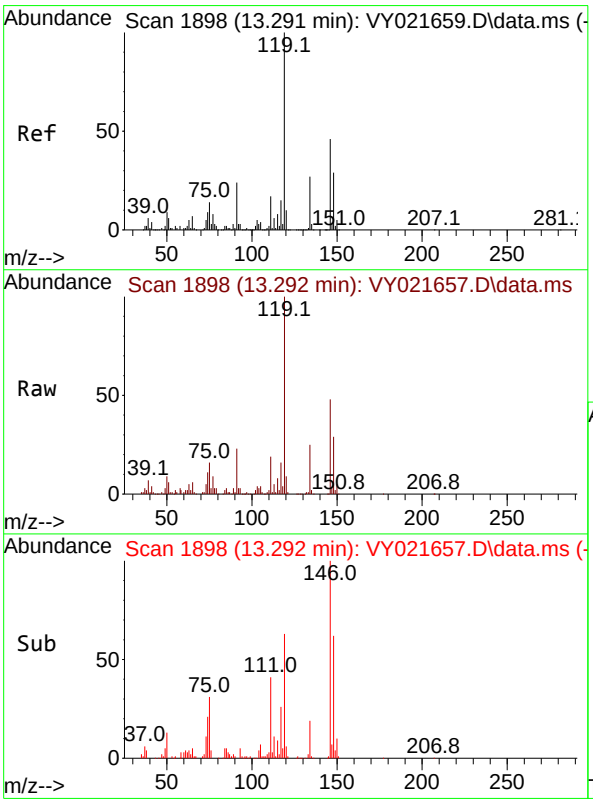
Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

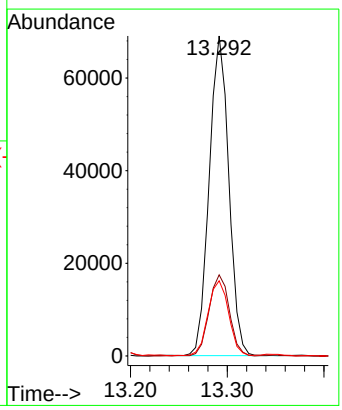
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

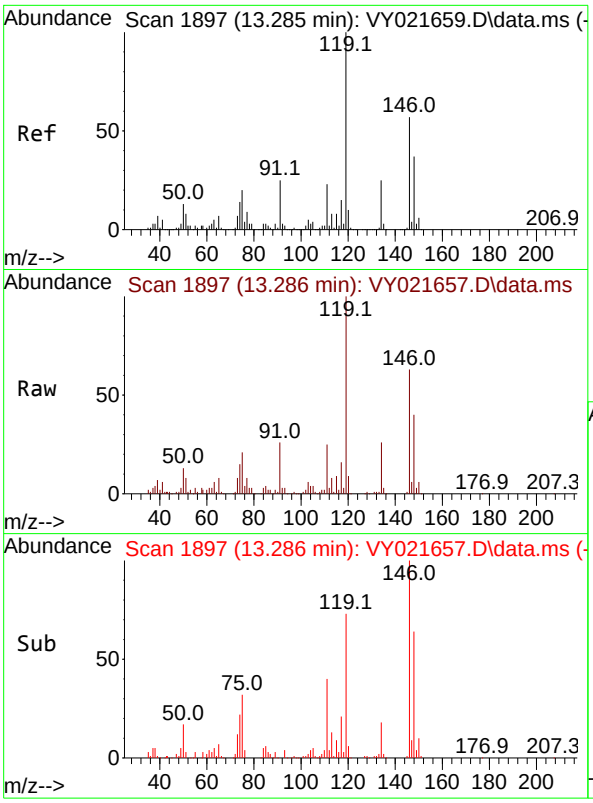


#86
p-Isopropyltoluene
Concen: 9.781 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:119 Resp: 97092

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.5
91	24.6	12.0	36.0

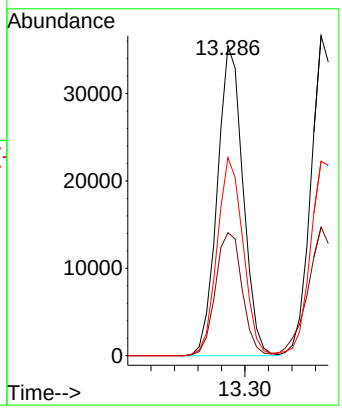




#87
1,3-Dichlorobenzene
Concen: 10.098 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:146 Resp: 5392

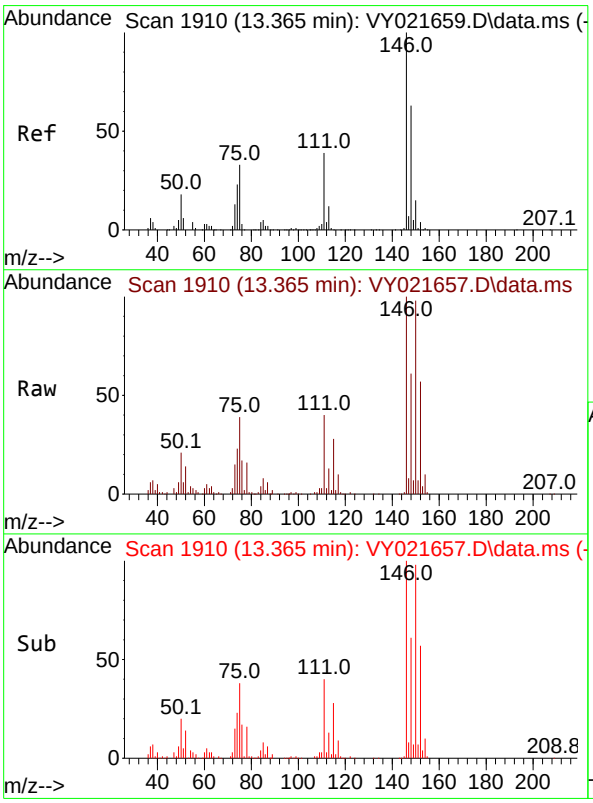
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.0	60.0
148	64.4	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

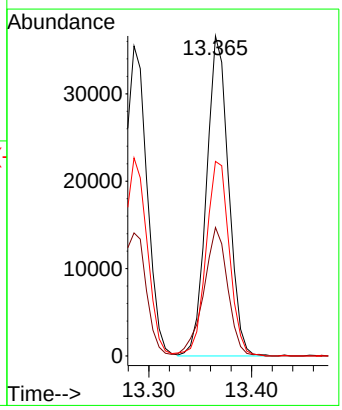
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

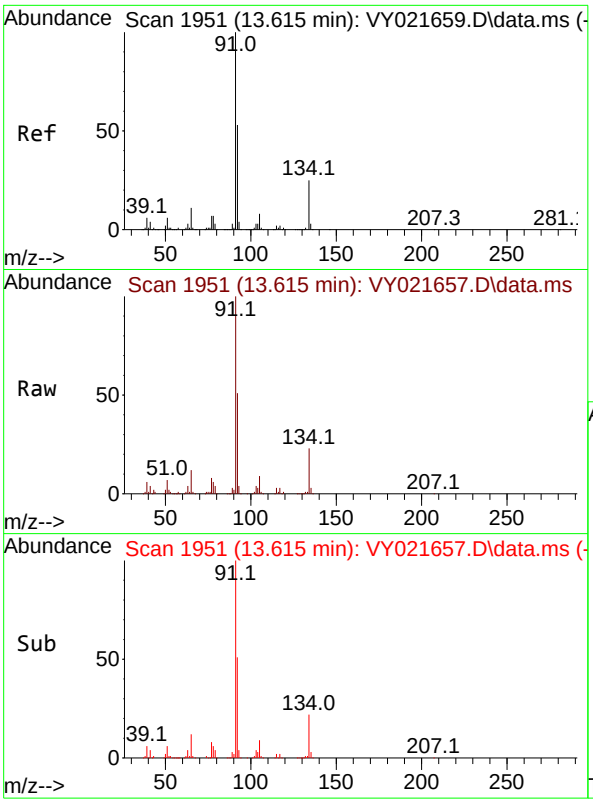


#88
1,4-Dichlorobenzene
Concen: 10.336 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:146 Resp: 54536

Ion	Ratio	Lower	Upper
146	100		
111	43.6	19.1	57.1
148	64.4	31.5	94.5

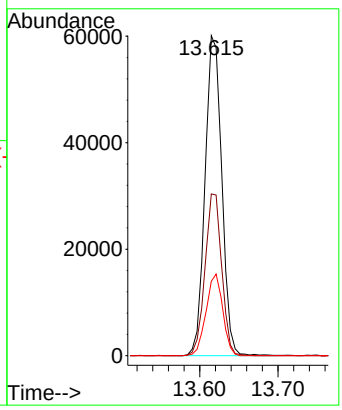




#89
n-Butylbenzene
Concen: 9.712 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 91 Resp: 8916

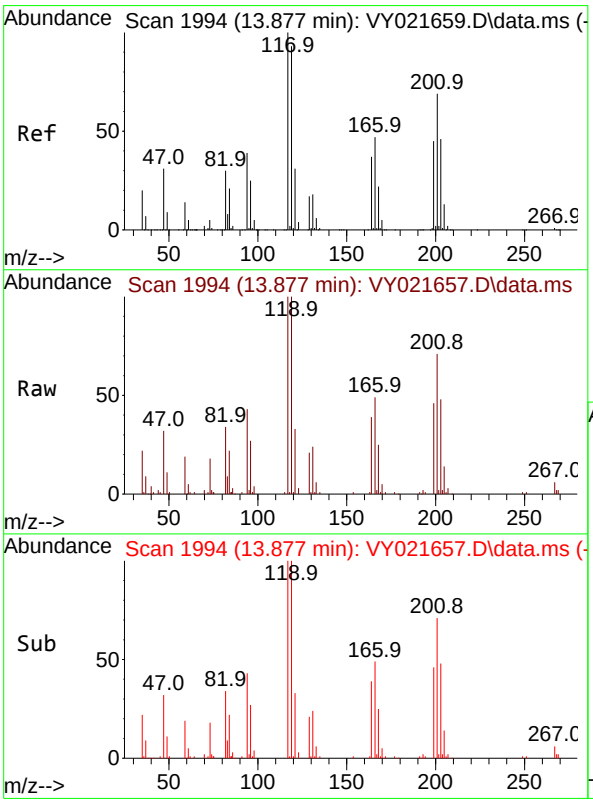
Ion	Ratio	Lower	Upper
91	100		
92	50.3	26.4	79.2
134	25.4	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

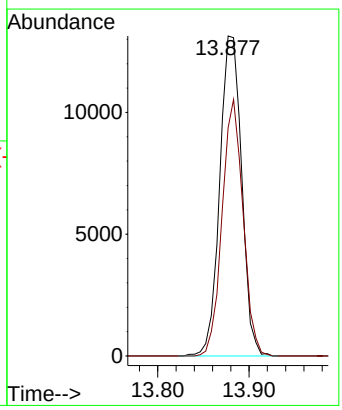
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

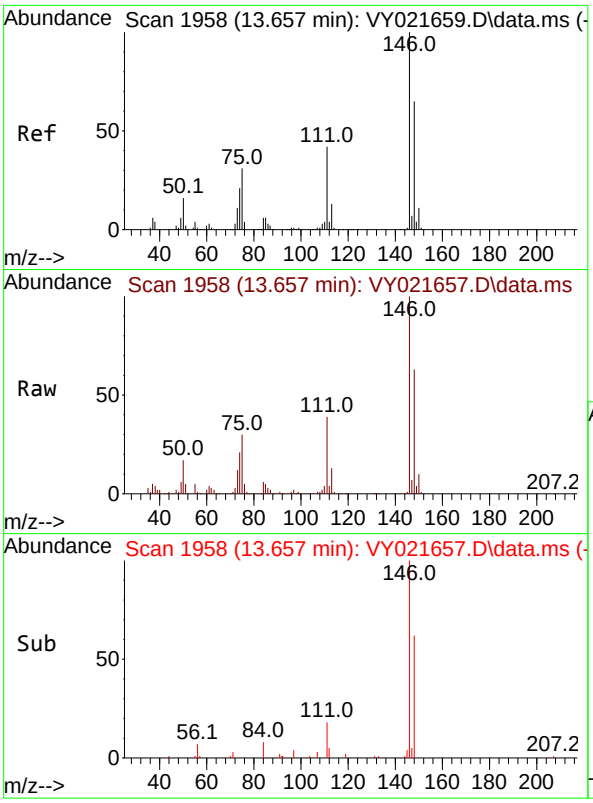


#90
Hexachloroethane
Concen: 10.059 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:117 Resp: 21881

Ion	Ratio	Lower	Upper
117	100		
201	76.5	37.4	112.1

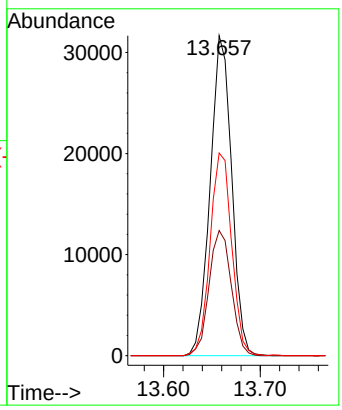




#91
1,2-Dichlorobenzene
Concen: 10.506 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:146 Resp: 4884

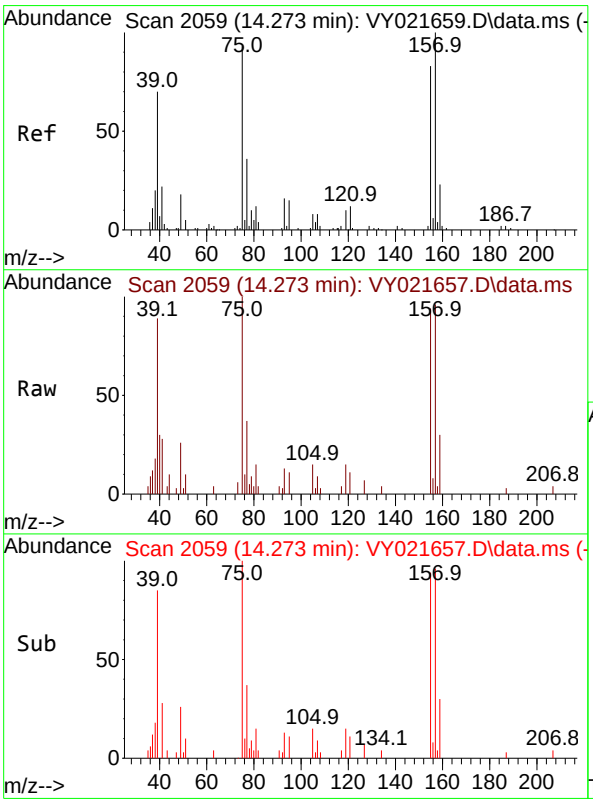
Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.7	62.1
148	63.8	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

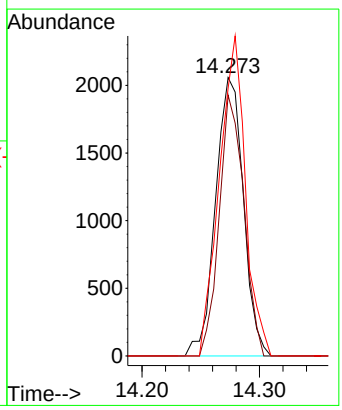
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

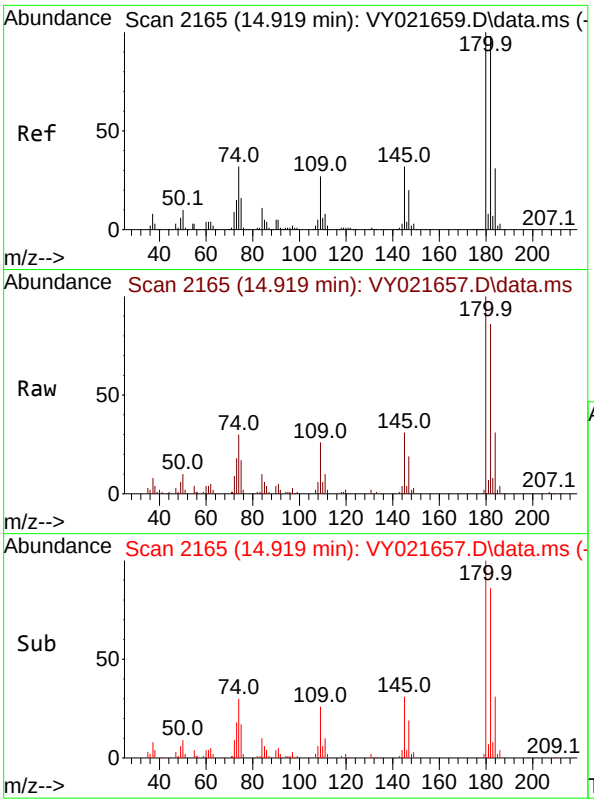


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.766 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion: 75 Resp: 3387

Ion	Ratio	Lower	Upper
75	100		
155	82.8	43.0	128.8
157	107.6	54.0	162.0

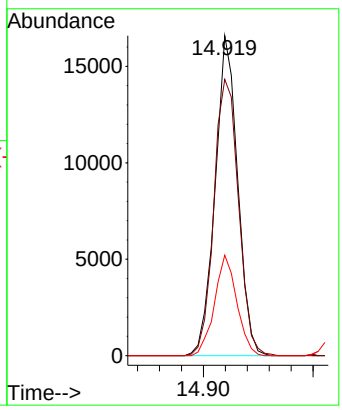




#93
1,2,4-Trichlorobenzene
Concen: 9.419 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:180 Resp: 2374

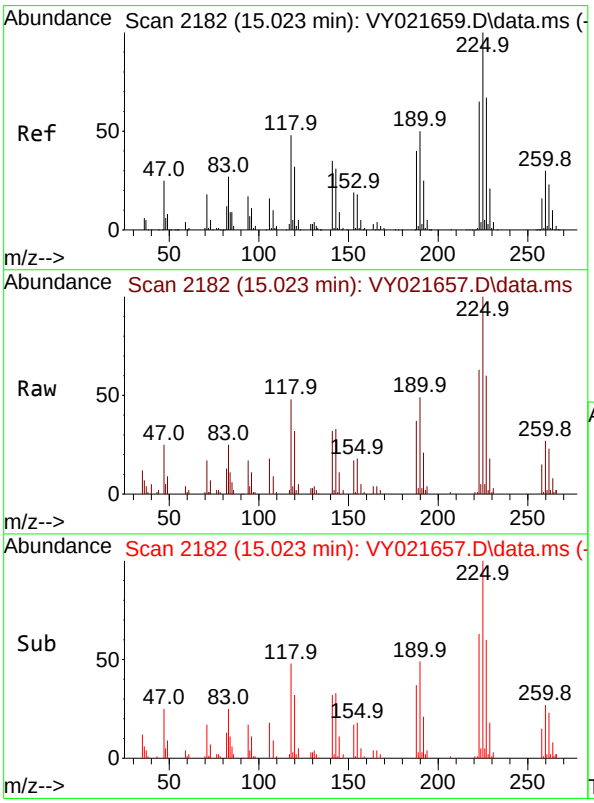
Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.5	142.6
145	31.1	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

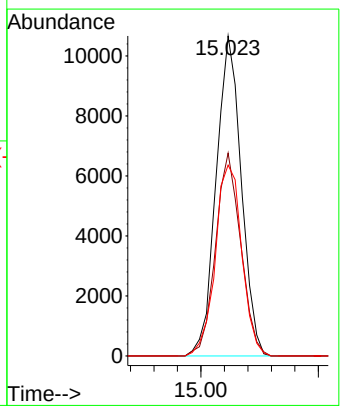
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

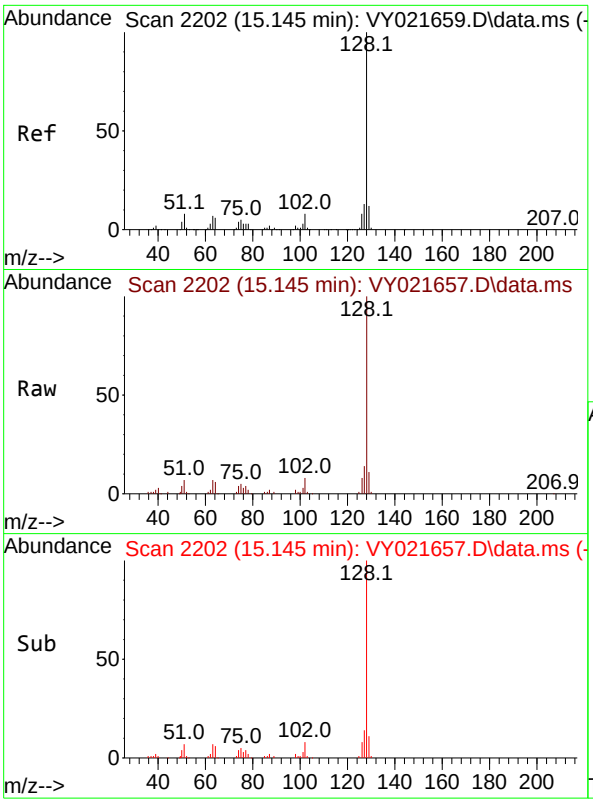


#94
Hexachlorobutadiene
Concen: 10.063 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:225 Resp: 15844

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.9	95.7
227	63.0	32.4	97.0

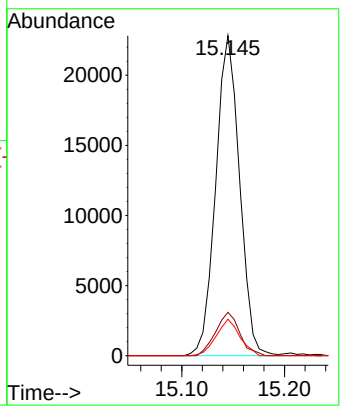




#95
Naphthalene
Concen: 8.785 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:128 Resp: 3671

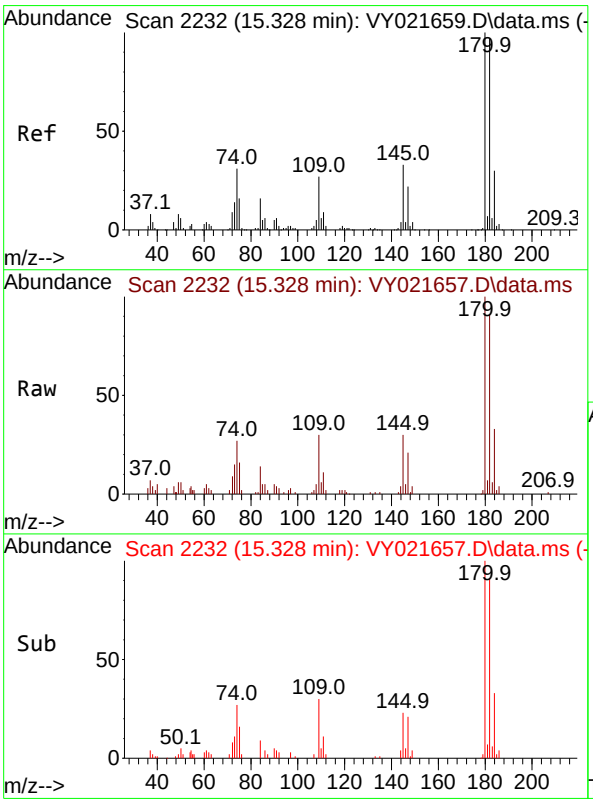
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.8	16.2
129	11.3	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

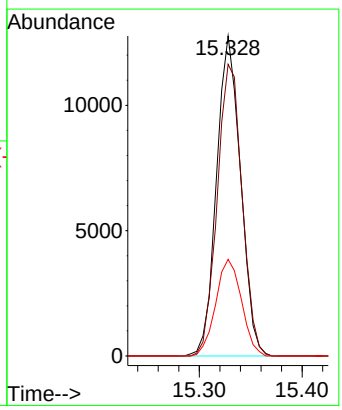
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 9.633 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021657.D
Acq: 27 Mar 2025 10:31

Tgt Ion:180 Resp: 20711

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.5	142.5
145	32.4	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021658.D
Acq On : 27 Mar 2025 10:54
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:15:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	234060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	372865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	325153	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	163591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	47022	18.542	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	37.080%#		
35) Dibromofluoromethane	7.634	113	43318	17.910	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	35.820%#		
50) Toluene-d8	10.109	98	168040	18.262	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	36.520%#		
62) 4-Bromofluorobenzene	12.408	95	56308	18.092	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	36.180%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	46121	19.011	ug/l	98
3) Chloromethane	2.068	50	66775	19.575	ug/l	100
4) Vinyl Chloride	2.202	62	75860	19.664	ug/l	98
5) Bromomethane	2.586	94	50238	19.093	ug/l	91
6) Chloroethane	2.733	64	50953	20.184	ug/l	96
7) Trichlorofluoromethane	3.056	101	103348	20.913	ug/l	98
8) Diethyl Ether	3.452	74	26594	19.788	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	51794	19.871	ug/l	99
10) Methyl Iodide	4.001	142	57115	19.974	ug/l	97
11) Tert butyl alcohol	4.860	59	16115	97.834	ug/l #	89
12) 1,1-Dichloroethene	3.787	96	47534	19.362	ug/l	98
13) Acrolein	3.653	56	29827	99.170	ug/l	99
14) Allyl chloride	4.385	41	75169	19.203	ug/l	98
15) Acrylonitrile	5.061	53	54478	97.084	ug/l	97
16) Acetone	3.866	43	47787	92.073	ug/l	97
17) Carbon Disulfide	4.104	76	159960	19.782	ug/l	98
18) Methyl Acetate	4.385	43	25160	19.560	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	116736	19.099	ug/l	99
20) Methylene Chloride	4.610	84	55574	19.525	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	53188	19.677	ug/l	96
22) Diisopropyl ether	6.019	45	162151	19.747	ug/l	96
23) Vinyl Acetate	5.958	43	468035	97.433	ug/l	99
24) 1,1-Dichloroethane	5.915	63	95841	19.520	ug/l	98
25) 2-Butanone	6.896	43	69856	94.233	ug/l	97
26) 2,2-Dichloropropane	6.884	77	83932	19.217	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	58567	19.266	ug/l	99
28) Bromochloromethane	7.238	49	39653	19.149	ug/l	99
29) Tetrahydrofuran	7.262	42	45146	94.626	ug/l	100
30) Chloroform	7.415	83	99390	19.462	ug/l	98
31) Cyclohexane	7.701	56	85377	19.075	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	89818	19.459	ug/l	99
36) 1,1-Dichloropropene	7.835	75	72566	19.697	ug/l	99
37) Ethyl Acetate	6.988	43	32313	18.585	ug/l	97
38) Carbon Tetrachloride	7.817	117	81472	19.308	ug/l	97
39) Methylcyclohexane	9.109	83	84802	19.269	ug/l	97
40) Benzene	8.079	78	213074	19.313	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021658.D
Acq On : 27 Mar 2025 10:54
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 02:15:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	16483	17.853	ug/l	#	100
42) 1,2-Dichloroethane	8.158	62	59552	19.146	ug/l		99
43) Isopropyl Acetate	8.195	43	60795	18.451	ug/l	#	87
44) Trichloroethene	8.866	130	54015	19.215	ug/l		95
45) 1,2-Dichloropropane	9.140	63	49850	19.088	ug/l		98
46) Dibromomethane	9.231	93	28698	19.067	ug/l		97
47) Bromodichloromethane	9.420	83	75123	19.262	ug/l		99
48) Methyl methacrylate	9.219	41	26759	17.695	ug/l		94
49) 1,4-Dioxane	9.225	88	6260	388.254	ug/l		98
51) 4-Methyl-2-Pentanone	10.000	43	163415	95.304	ug/l		98
52) Toluene	10.170	92	133126	19.340	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	65536	18.919	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	78753	19.271	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	37073	19.140	ug/l		98
56) Ethyl methacrylate	10.438	69	46833	18.936	ug/l		97
57) 1,3-Dichloropropane	10.719	76	65563	19.600	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	112947	93.615	ug/l		98
59) 2-Hexanone	10.762	43	107618	94.241	ug/l		99
60) Dibromochloromethane	10.908	129	50740	19.187	ug/l		100
61) 1,2-Dibromoethane	11.018	107	34293	18.874	ug/l		97
64) Tetrachloroethene	10.646	164	58923	19.897	ug/l		97
65) Chlorobenzene	11.444	112	144411	19.375	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	50703	19.173	ug/l		98
67) Ethyl Benzene	11.518	91	249430	19.515	ug/l		98
68) m/p-Xylenes	11.627	106	193566	39.549	ug/l		99
69) o-Xylene	11.957	106	87927	19.462	ug/l		98
70) Styrene	11.969	104	147490	19.580	ug/l		99
71) Bromoform	12.133	173	29726	19.706	ug/l	#	100
73) Isopropylbenzene	12.255	105	234386	19.290	ug/l		100
74) N-amyl acetate	12.072	43	52342	18.355	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	40279	18.438	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	31855m	19.644	ug/l		
77) Bromobenzene	12.530	156	55776	19.119	ug/l		99
78) n-propylbenzene	12.597	91	284563	19.480	ug/l		100
79) 2-Chlorotoluene	12.682	91	165911	19.555	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	195141	19.651	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	13021	18.502	ug/l		97
82) 4-Chlorotoluene	12.780	91	173311	19.593	ug/l		100
83) tert-Butylbenzene	12.999	119	171216	19.357	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	193683	19.734	ug/l		99
85) sec-Butylbenzene	13.176	105	252573	19.540	ug/l		100
86) p-Isopropyltoluene	13.292	119	209041	19.567	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	111682	19.431	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	111508	19.636	ug/l		98
89) n-Butylbenzene	13.615	91	191838	19.416	ug/l		99
90) Hexachloroethane	13.877	117	44313	18.928	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	97912	19.569	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6369	18.811	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	51474	18.971	ug/l		100
94) Hexachlorobutadiene	15.023	225	32055	18.916	ug/l		99
95) Naphthalene	15.145	128	82325	18.305	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	44047	19.037	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021658.D
Acq On : 27 Mar 2025 10:54
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:15:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

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

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

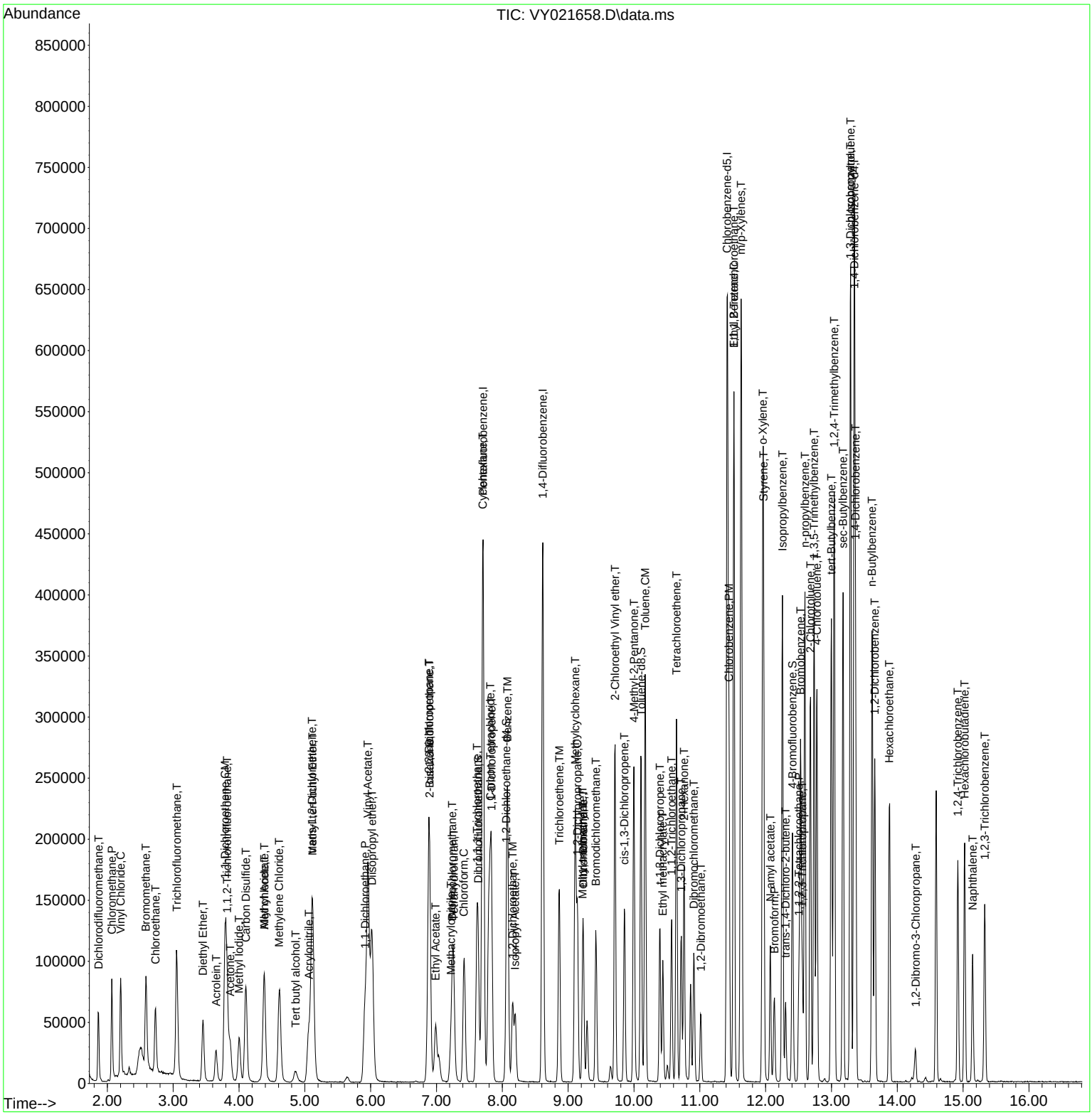
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021658.D
Acq On : 27 Mar 2025 10:54
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

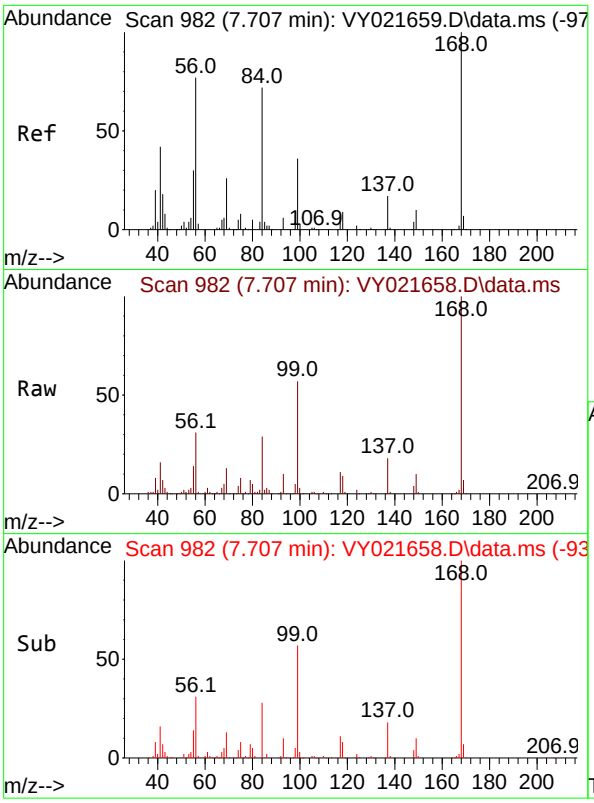
Quant Time: Mar 28 02:15:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

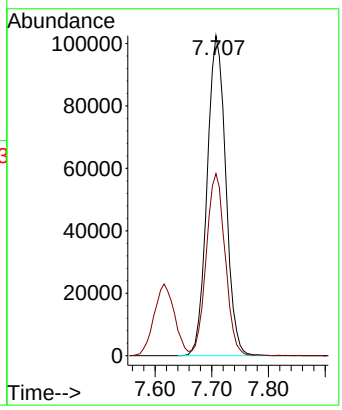




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:168 Resp: 23406

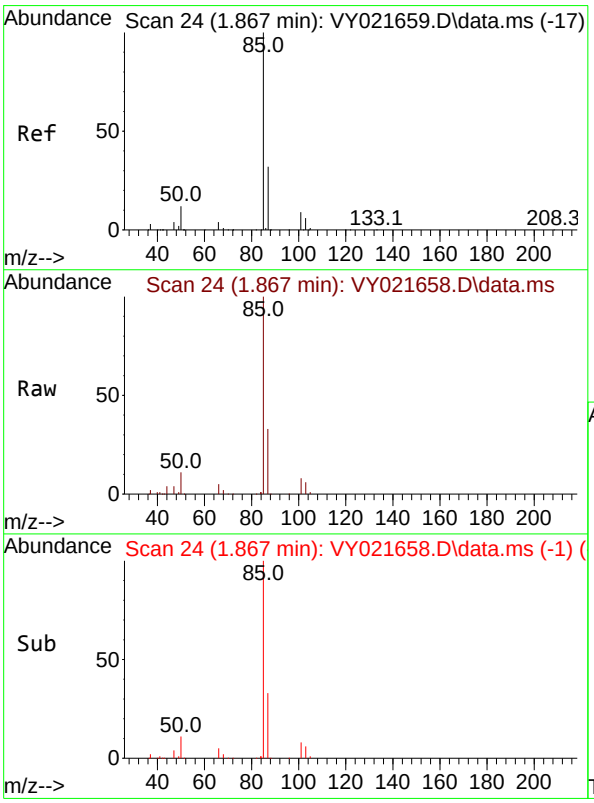
Ion	Ratio	Lower	Upper
168	100		
99	56.7	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

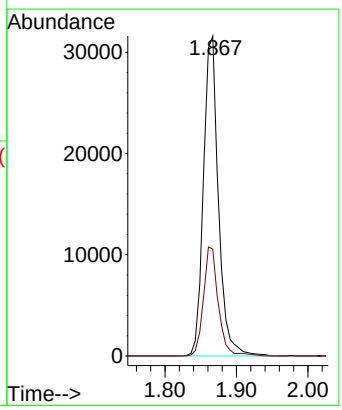
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

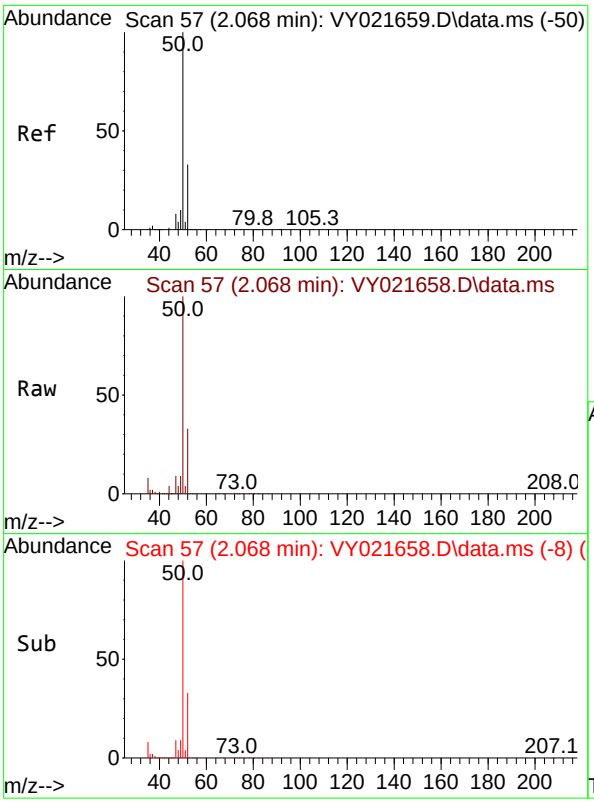


#2
Dichlorodifluoromethane
Concen: 19.011 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 85 Resp: 46121

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.2	48.6

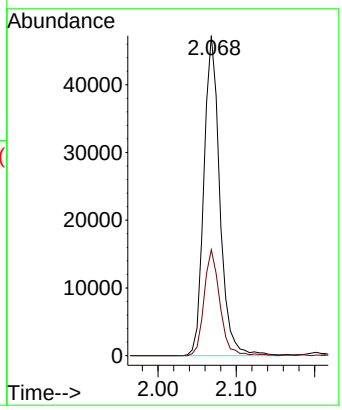




#3
Chloromethane
Concen: 19.575 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 50 Resp: 6677

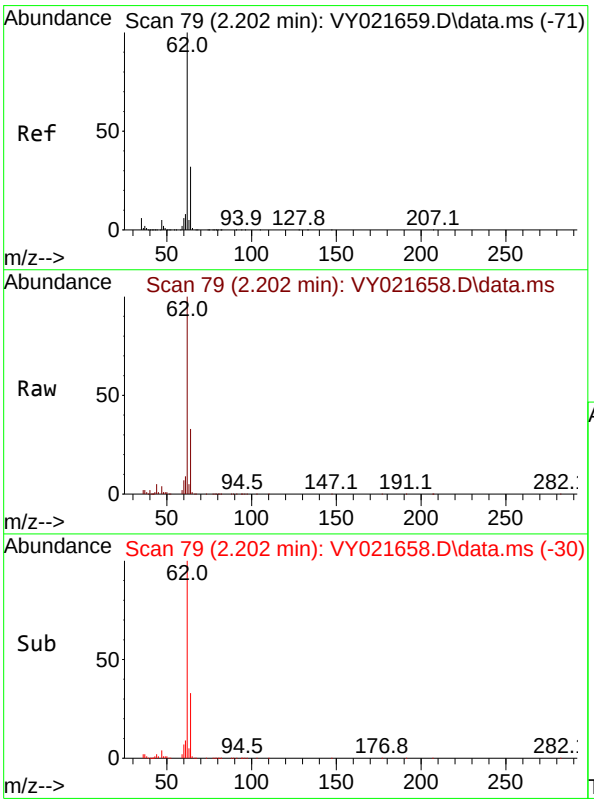
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

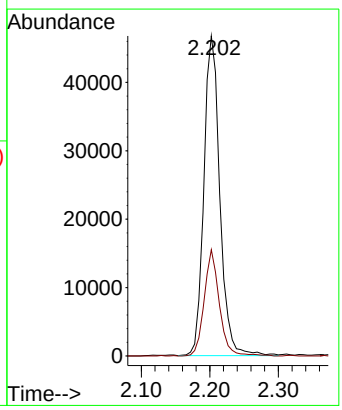
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

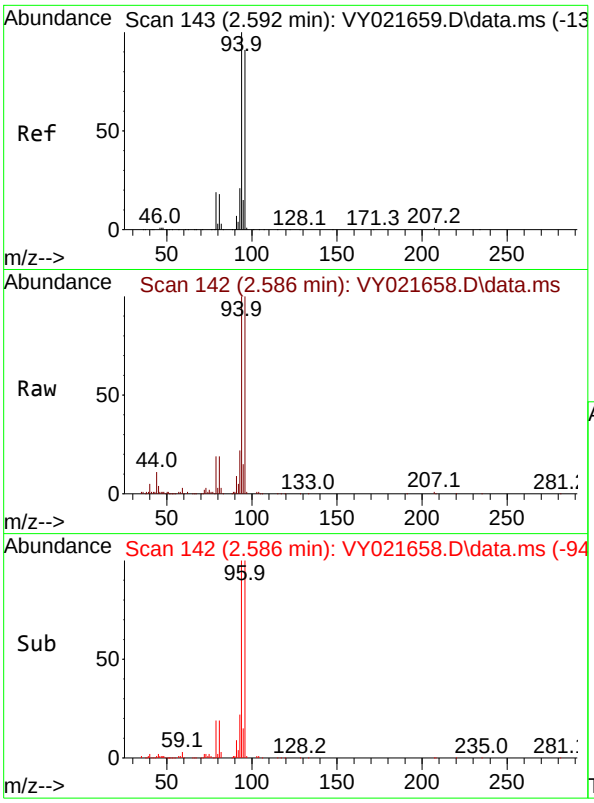


#4
Vinyl Chloride
Concen: 19.664 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 62 Resp: 75860

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.5	38.3





#5
Bromomethane
Concen: 19.093 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

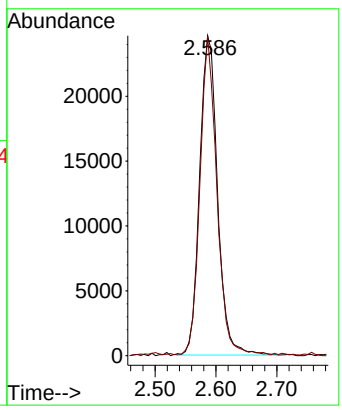
Tgt Ion: 94 Resp: 5023

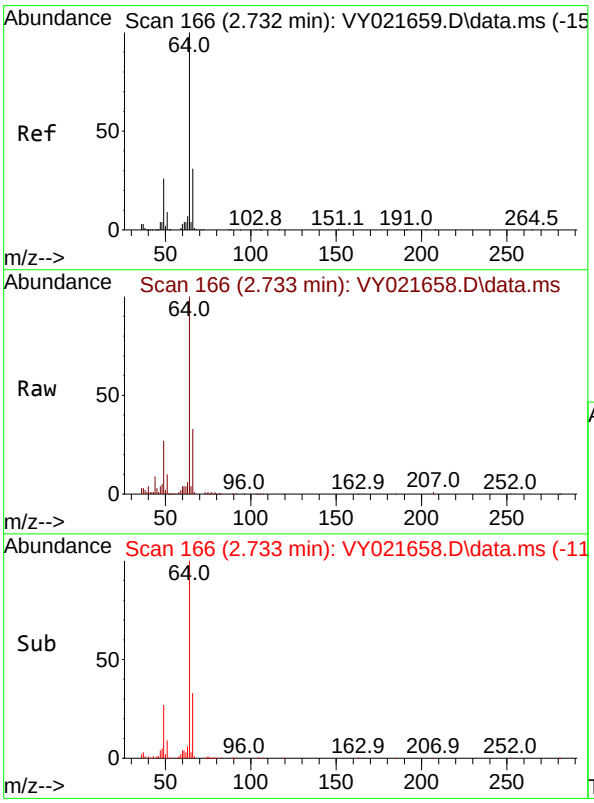
Ion	Ratio	Lower	Upper
94	100		
96	99.7	72.8	109.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

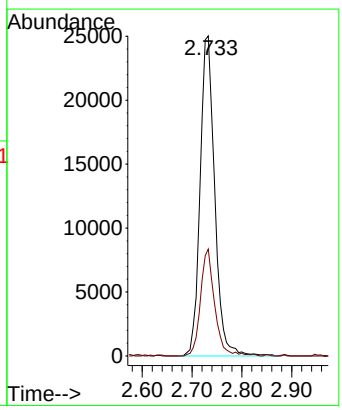


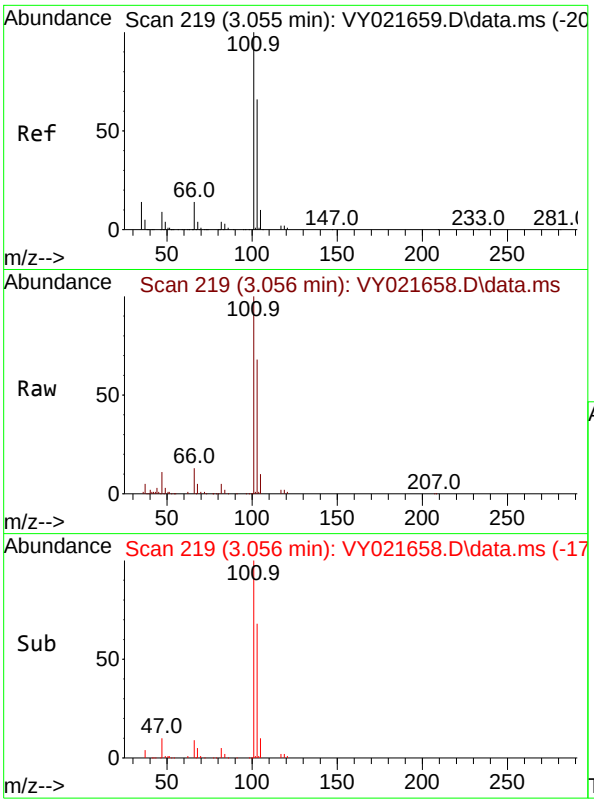


#6
Chloroethane
Concen: 20.184 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 64 Resp: 50953

Ion	Ratio	Lower	Upper
64	100		
66	33.4	24.9	37.3

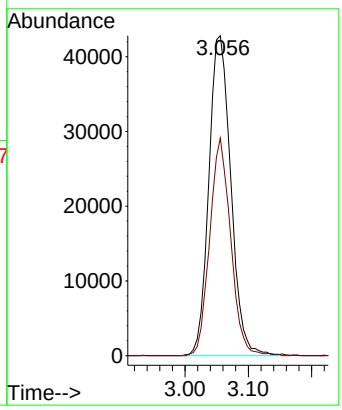




#7
Trichlorofluoromethane
Concen: 20.913 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:101 Resp: 10334

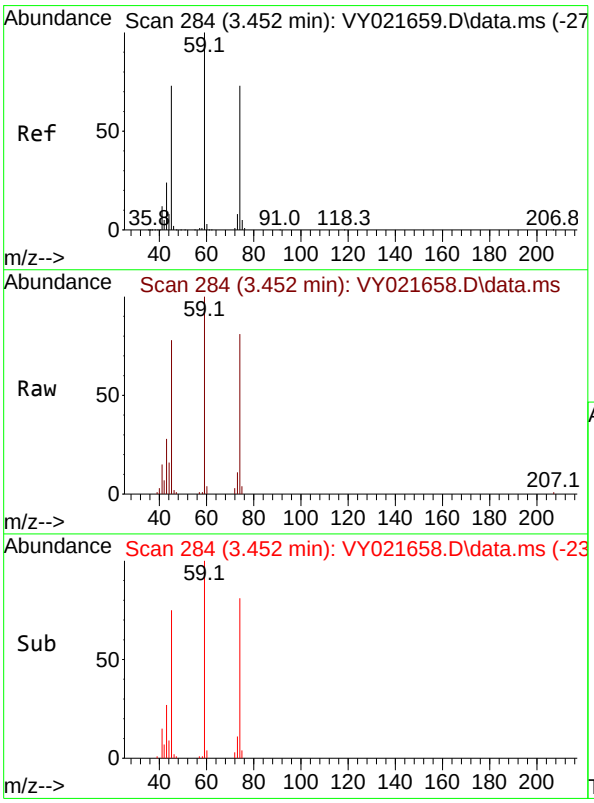
Ion	Ratio	Lower	Upper
101	100		
103	68.0	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

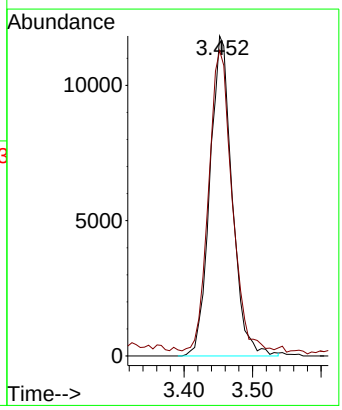
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

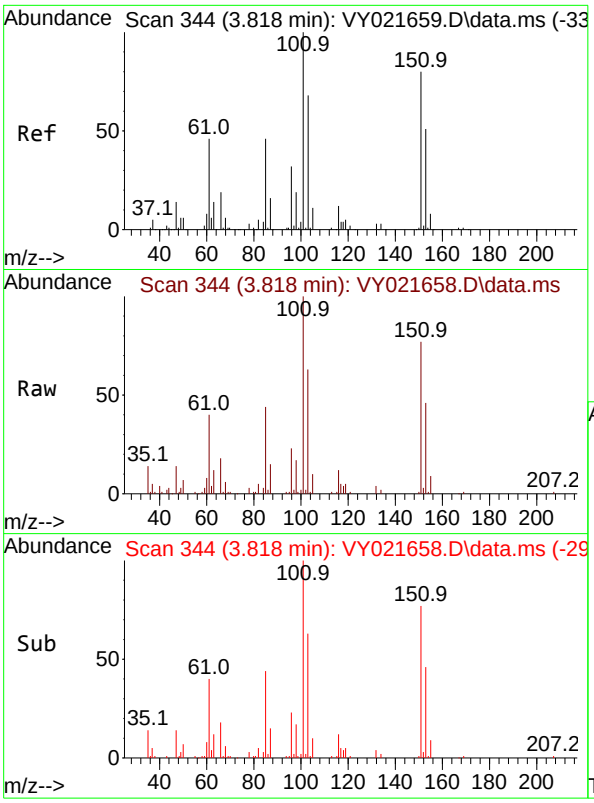


#8
Diethyl Ether
Concen: 19.788 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 74 Resp: 26594

Ion	Ratio	Lower	Upper
74	100		
45	98.3	48.6	145.8

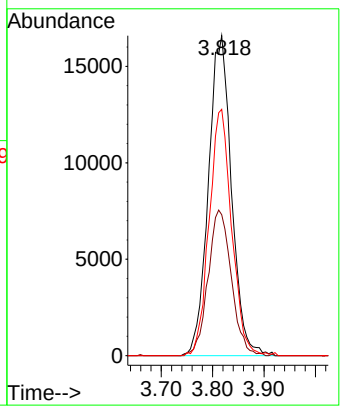




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.871 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:101 Resp: 5179

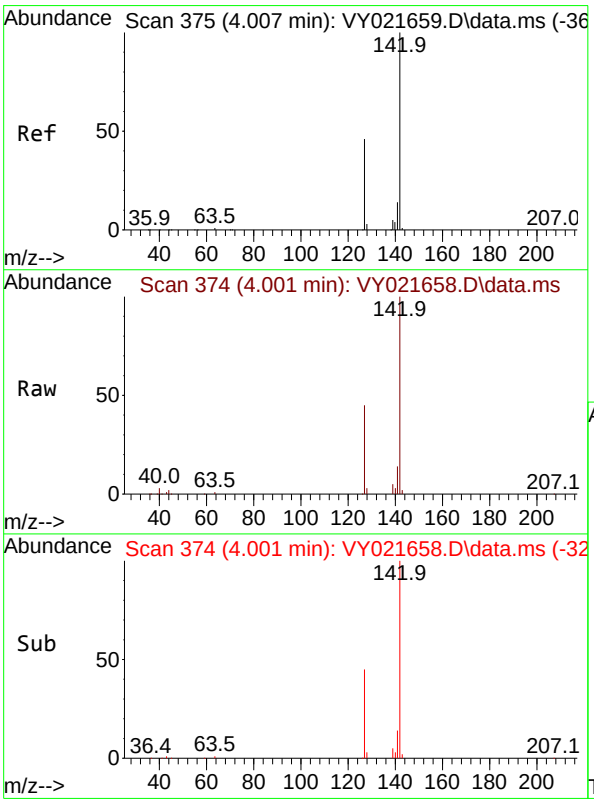
Ion	Ratio	Lower	Upper
101	100		
85	45.8	36.3	54.5
151	75.2	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

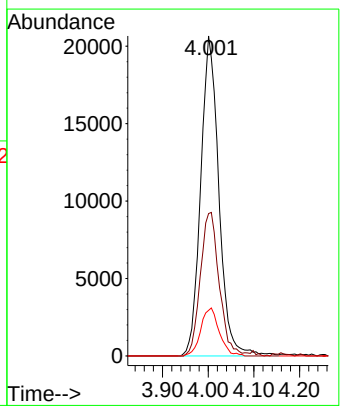
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

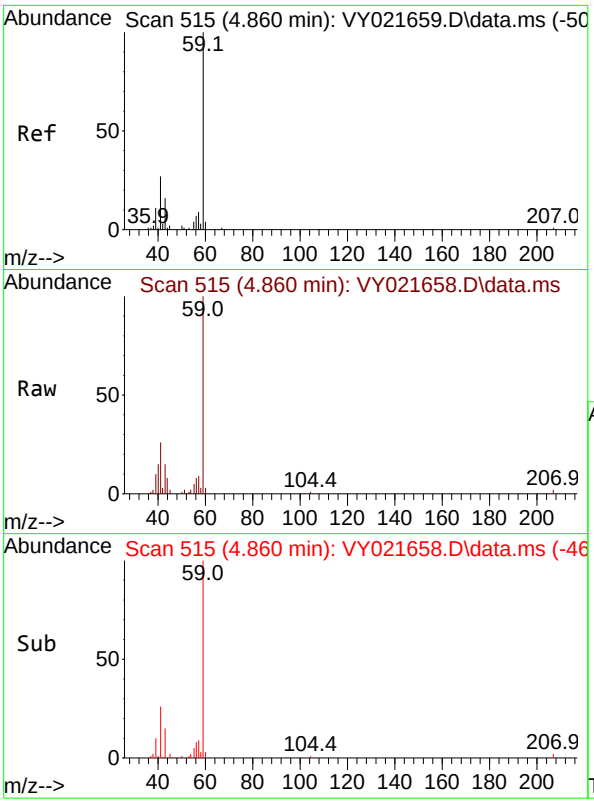


#10
Methyl Iodide
Concen: 19.974 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:142 Resp: 57115

Ion	Ratio	Lower	Upper
142	100		
127	46.4	38.7	58.1
141	15.2	11.5	17.3

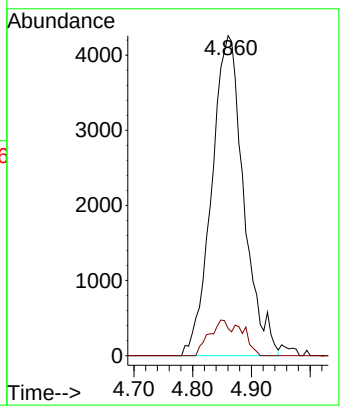




#11
Tert butyl alcohol
Concen: 97.834 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 59 Resp: 1611

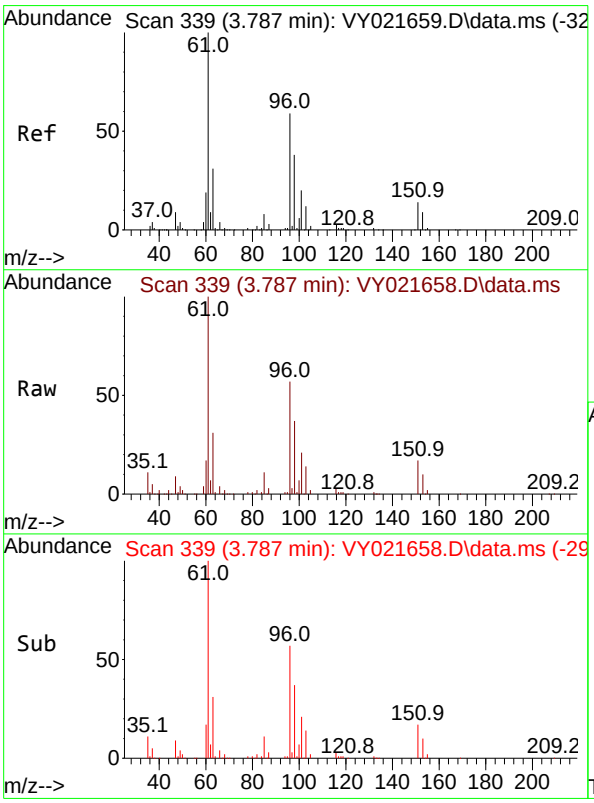
Ion	Ratio	Lower	Upper
59	100		
57	7.2	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

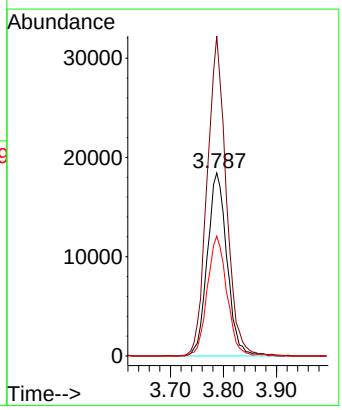
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

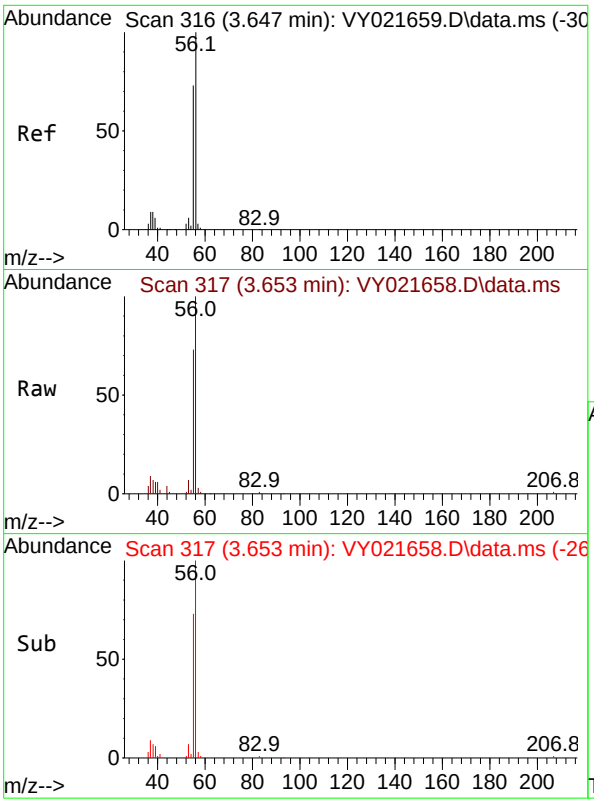


#12
1,1-Dichloroethene
Concen: 19.362 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 96 Resp: 47534

Ion	Ratio	Lower	Upper
96	100		
61	174.8	136.6	204.8
98	65.5	52.3	78.5

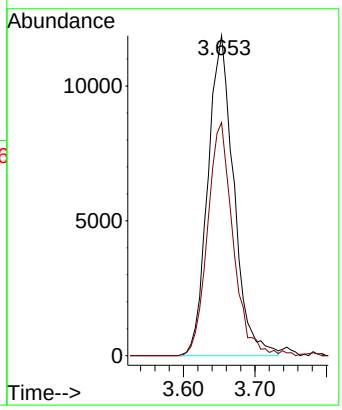




#13
Acrolein
Concen: 99.170 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 56 Resp: 2982

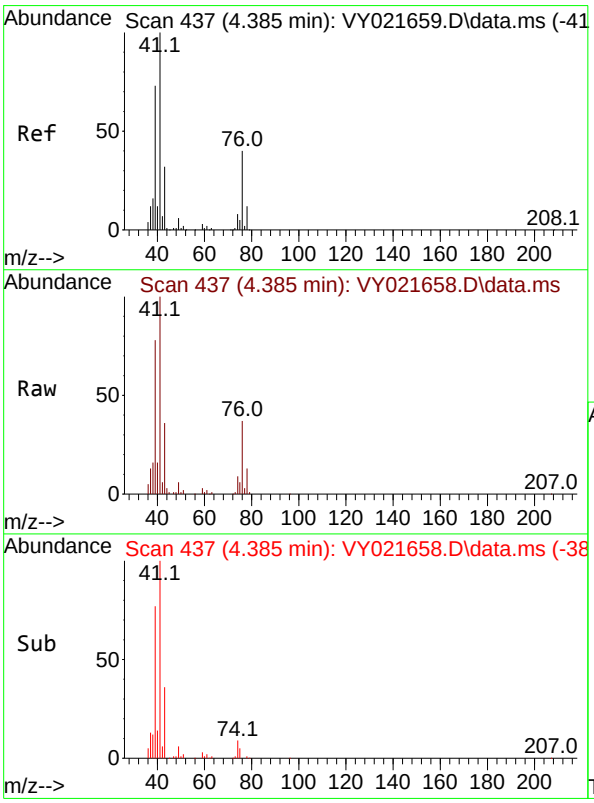
Ion	Ratio	Lower	Upper
56	100		
55	71.8	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

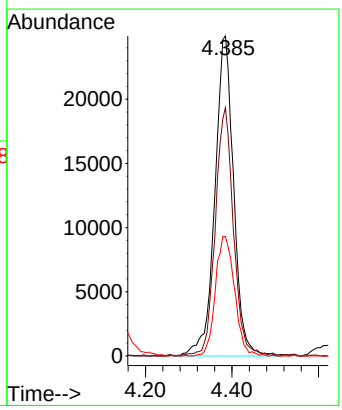
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

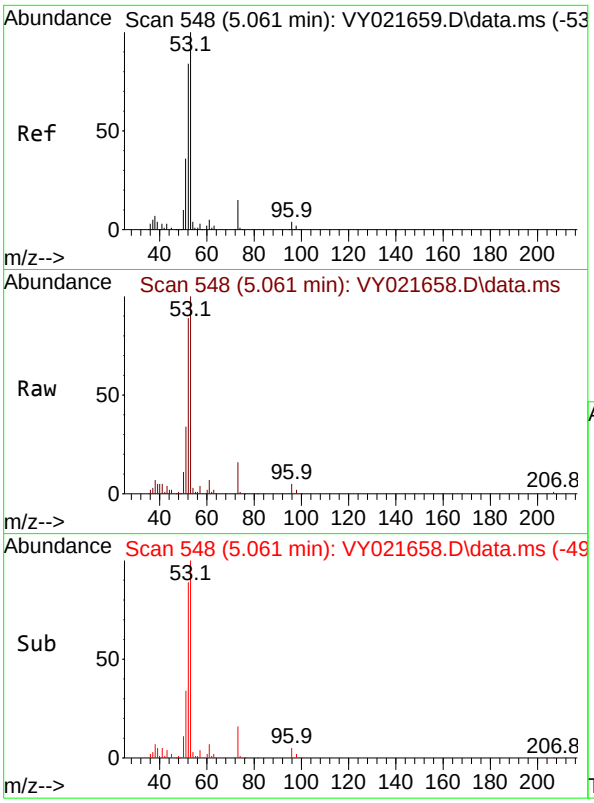


#14
Allyl chloride
Concen: 19.203 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 41 Resp: 75169

Ion	Ratio	Lower	Upper
41	100		
39	75.3	58.6	88.0
76	38.1	30.3	45.5





#15
Acrylonitrile
Concen: 97.084 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

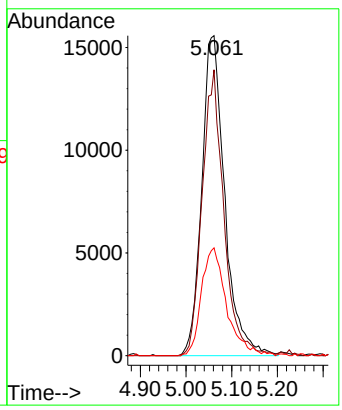
Tgt Ion: 53 Resp: 5447

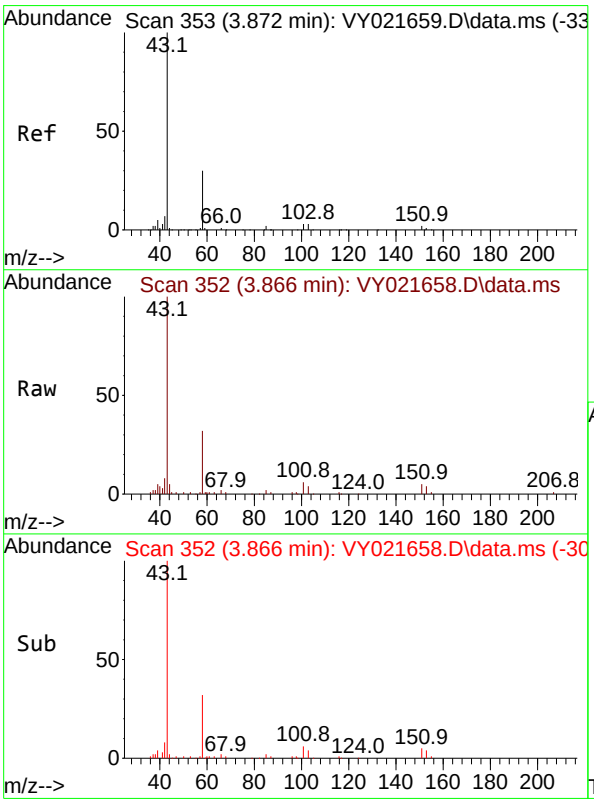
Ion	Ratio	Lower	Upper
53	100		
52	84.1	64.9	97.3
51	36.5	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

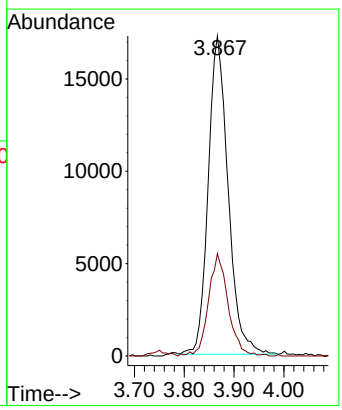


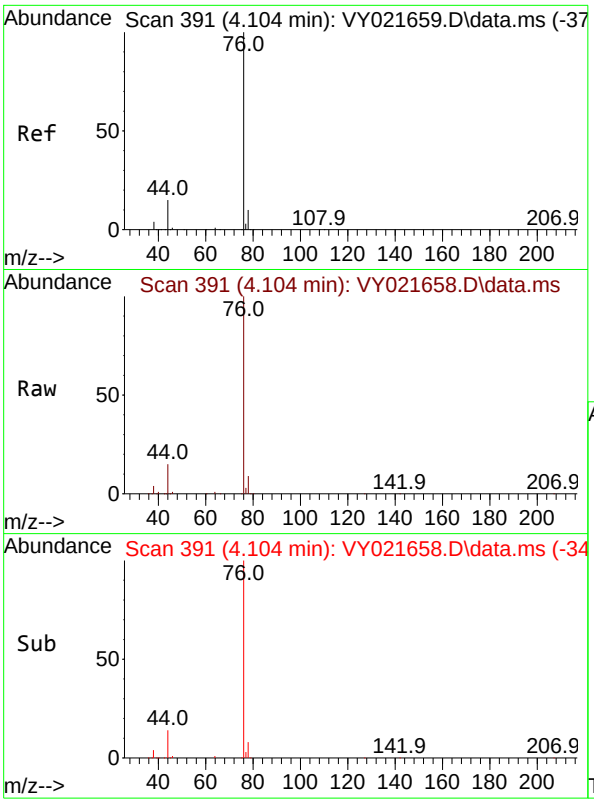


#16
Acetone
Concen: 92.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 43 Resp: 47787

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.2	36.4

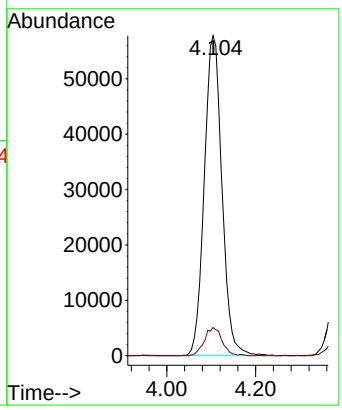




#17
Carbon Disulfide
Concen: 19.782 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 76 Resp: 15996

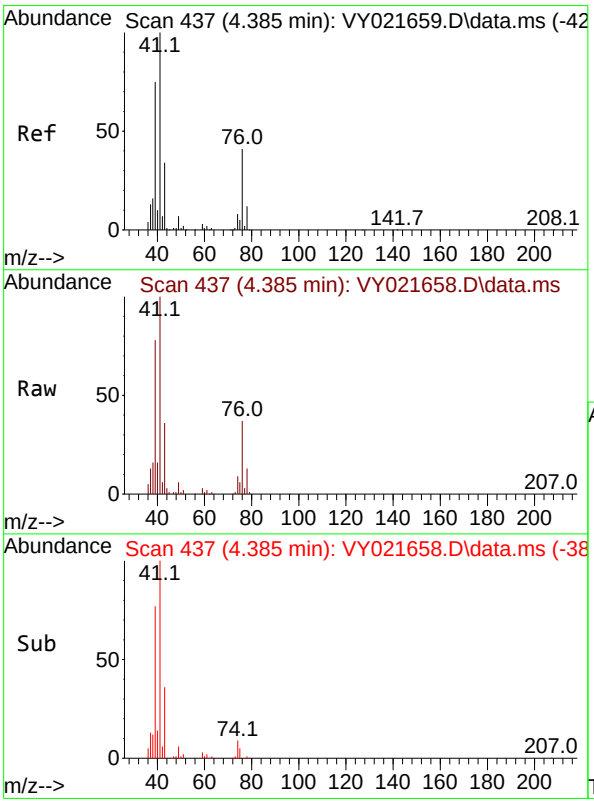
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

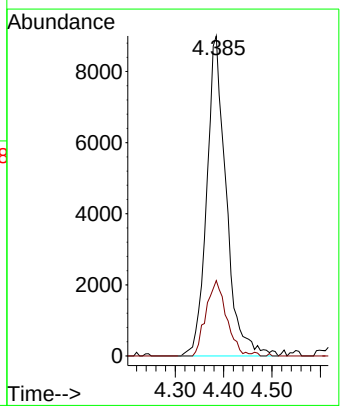
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

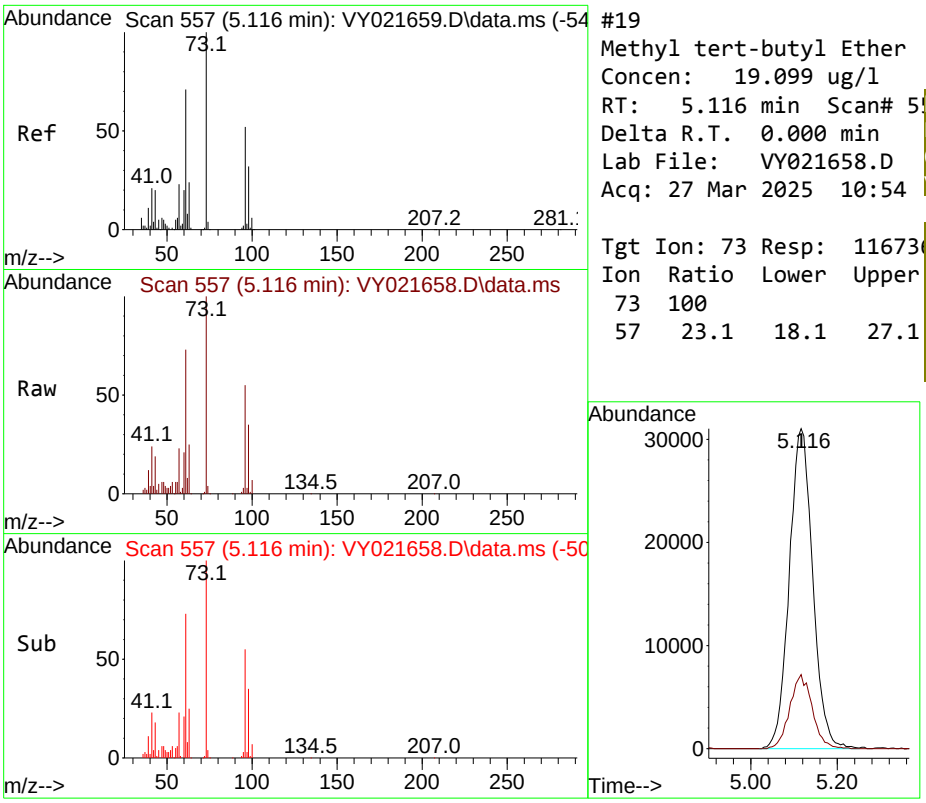


#18
Methyl Acetate
Concen: 19.560 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 43 Resp: 25160

Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.1	28.7





#19
Methyl tert-butyl Ether
Concen: 19.099 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

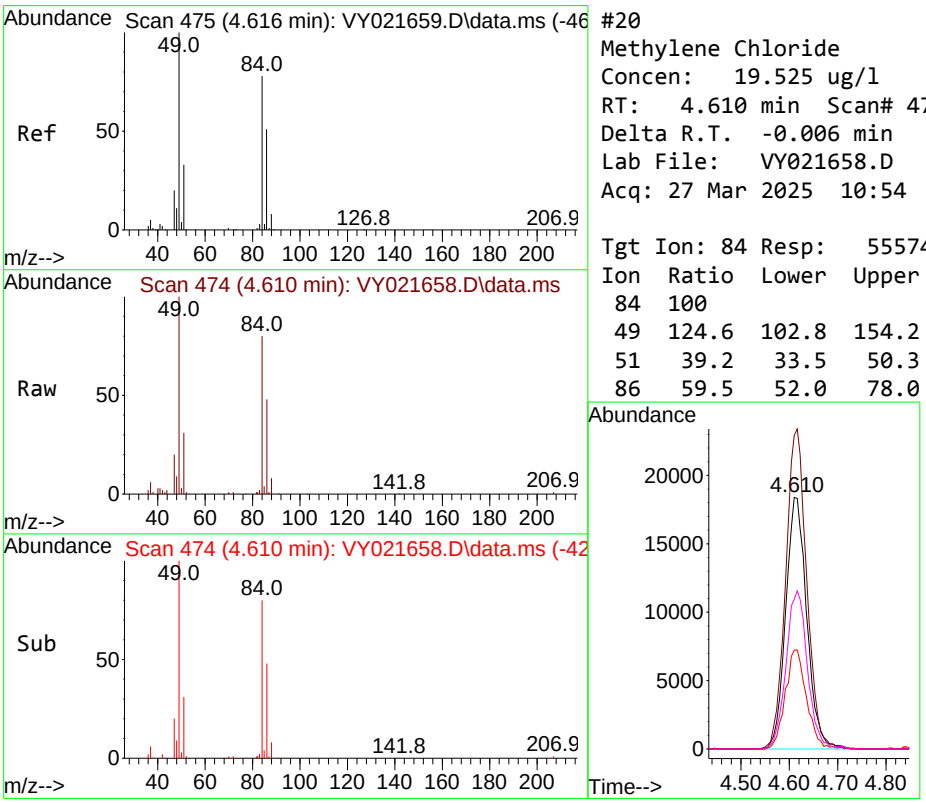
Tgt Ion: 73 Resp: 11673

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.1	27.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

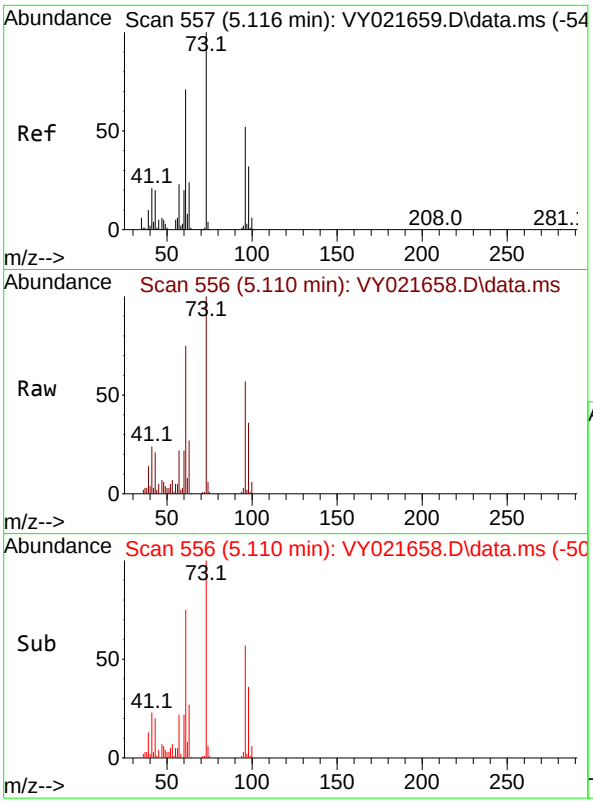
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#20
Methylene Chloride
Concen: 19.525 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 84 Resp: 55574

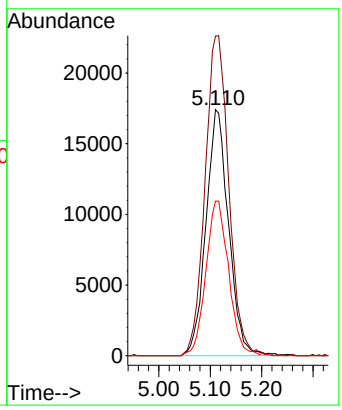
Ion	Ratio	Lower	Upper
84	100		
49	124.6	102.8	154.2
51	39.2	33.5	50.3
86	59.5	52.0	78.0



#21
trans-1,2-Dichloroethene
Concen: 19.677 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 96 Resp: 5318

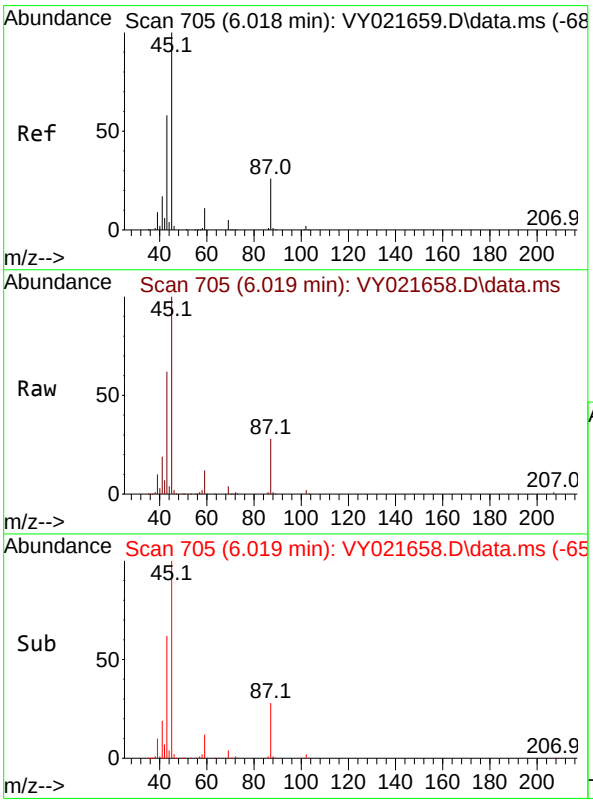
Ion	Ratio	Lower	Upper
96	100		
61	129.9	109.4	164.0
98	62.8	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

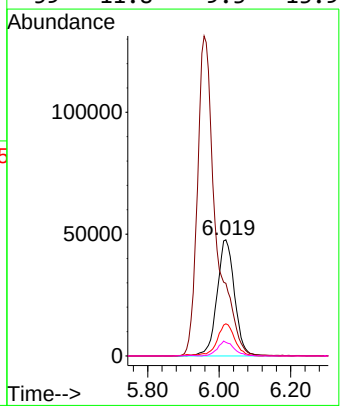
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

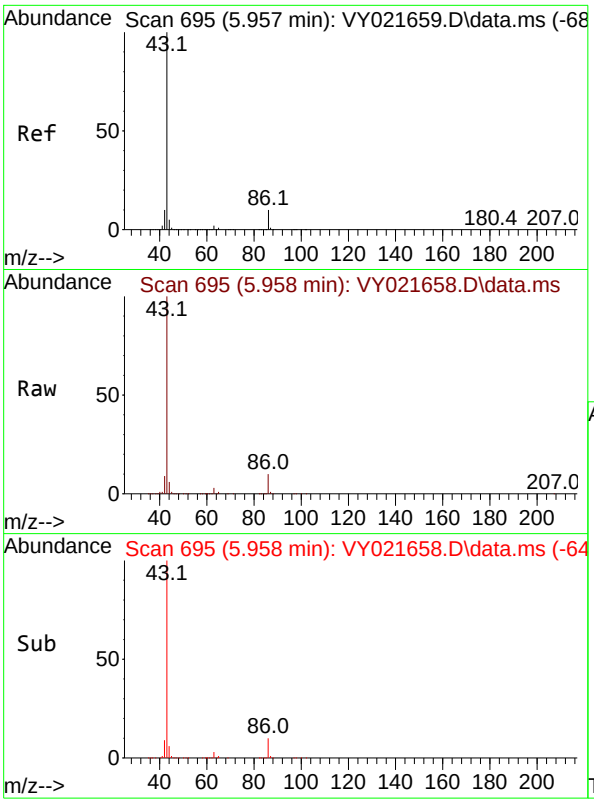


#22
Diisopropyl ether
Concen: 19.747 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 45 Resp: 162151

Ion	Ratio	Lower	Upper
45	100		
43	62.4	46.6	69.8
87	27.7	20.7	31.1
59	11.8	9.3	13.9





#23
Vinyl Acetate
Concen: 97.433 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

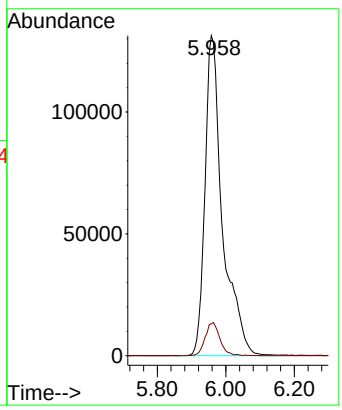
Tgt Ion: 43 Resp: 46803

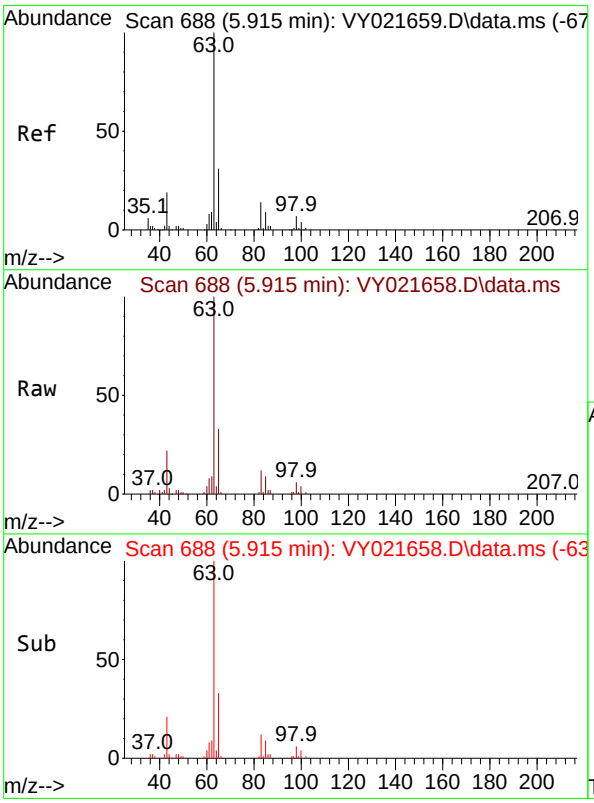
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

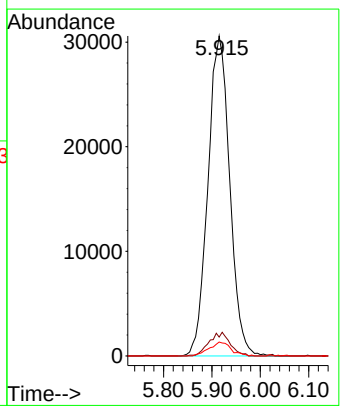


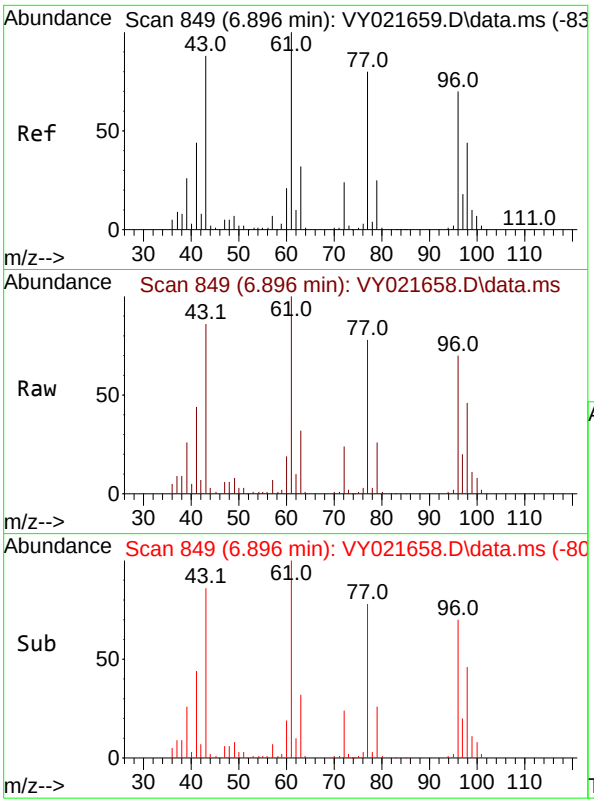


#24
1,1-Dichloroethane
Concen: 19.520 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 63 Resp: 95841

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.5	10.5
100	4.4	2.2	6.6





#25
2-Butanone
Concen: 94.233 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

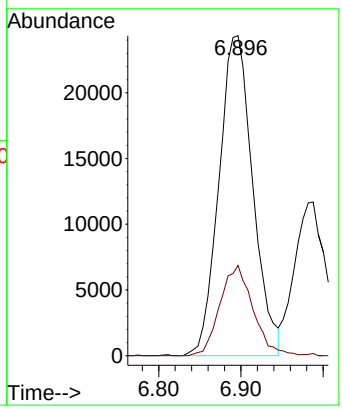
Tgt Ion: 43 Resp: 6985

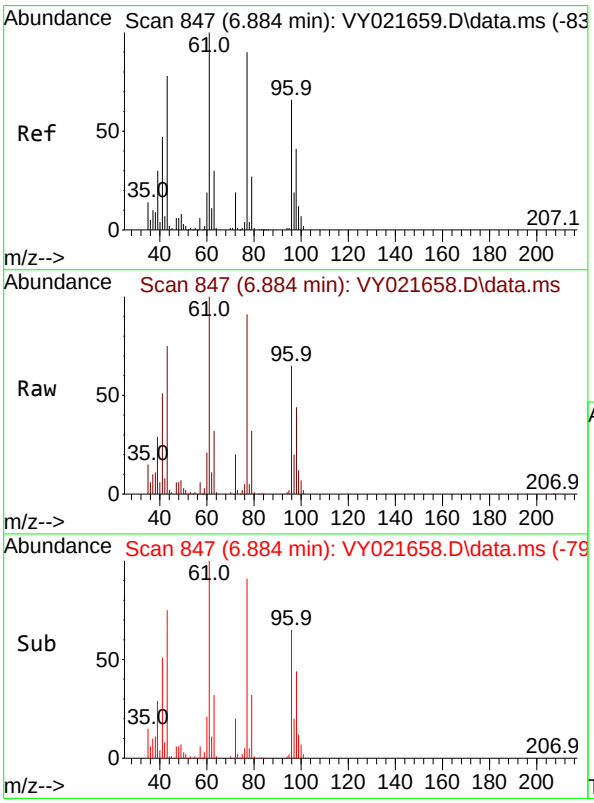
Ion	Ratio	Lower	Upper
43	100		
72	28.2	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

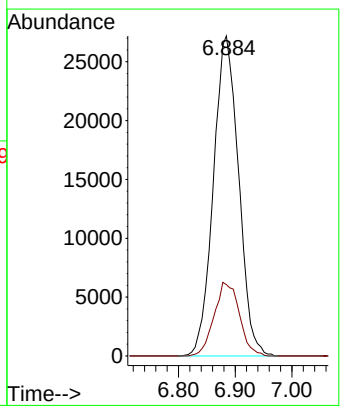


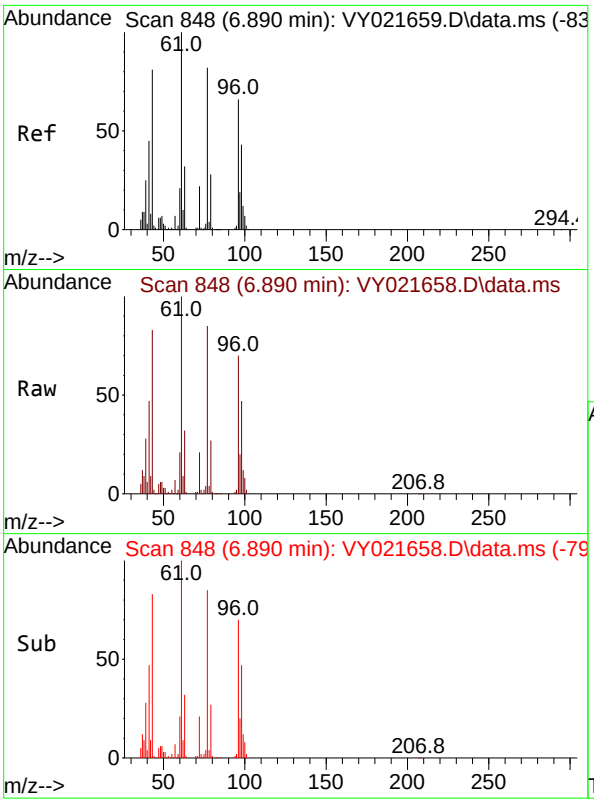


#26
2,2-Dichloropropane
Concen: 19.217 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 77 Resp: 83932

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.1	33.1

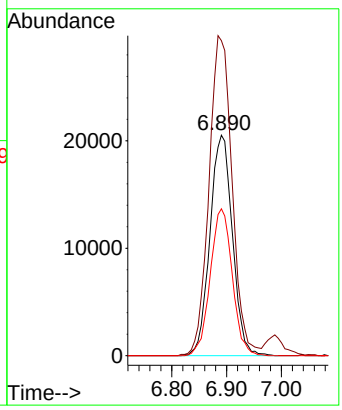




#27
cis-1,2-Dichloroethene
Concen: 19.266 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 96 Resp: 5856

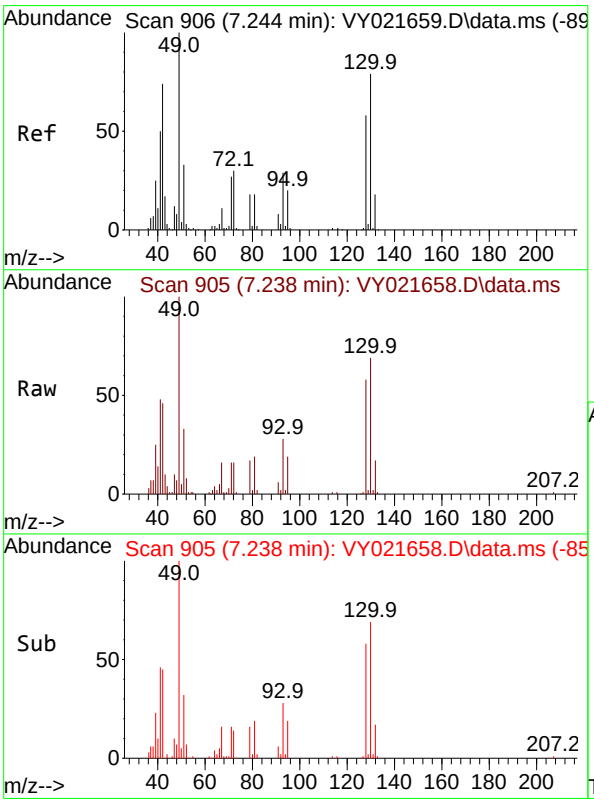
Ion	Ratio	Lower	Upper
96	100		
61	149.2	0.0	296.4
98	65.3	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

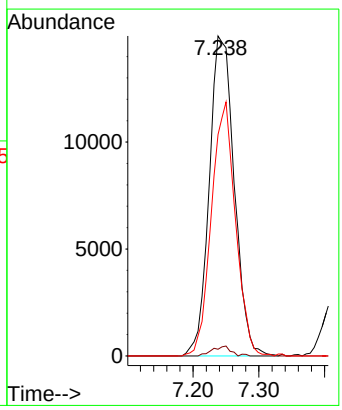
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

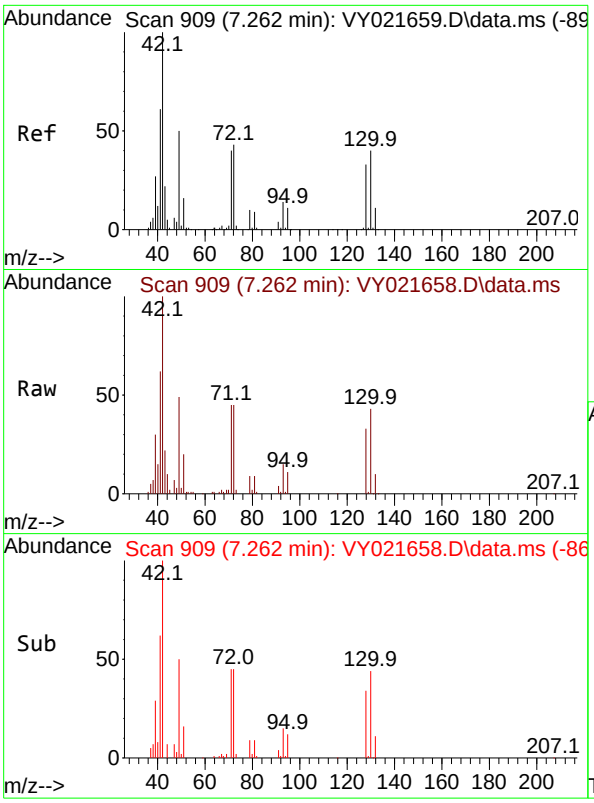


#28
Bromochloromethane
Concen: 19.149 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 49 Resp: 39653

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.4
130	76.4	60.1	90.1

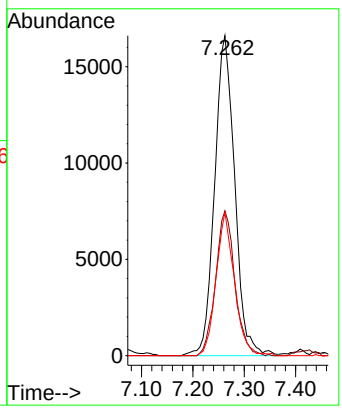




#29
Tetrahydrofuran
Concen: 94.626 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 42 Resp: 4514

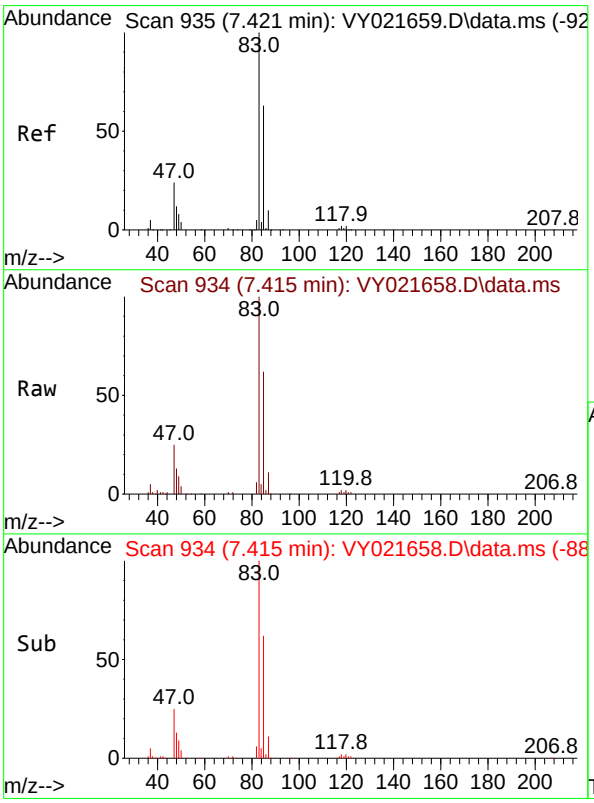
Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.6	52.0
71	41.0	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

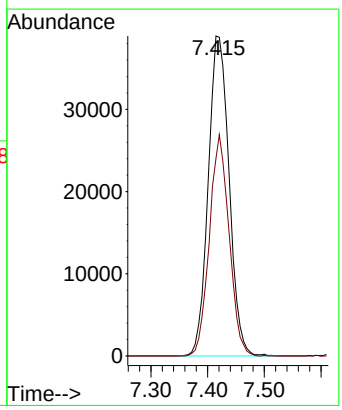
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

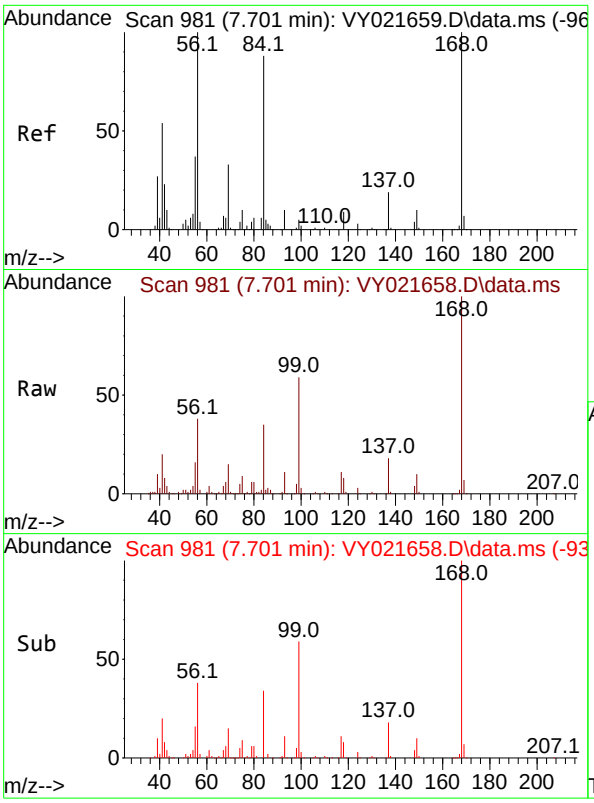


#30
Chloroform
Concen: 19.462 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 83 Resp: 99390

Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8





#31
Cyclohexane
Concen: 19.075 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

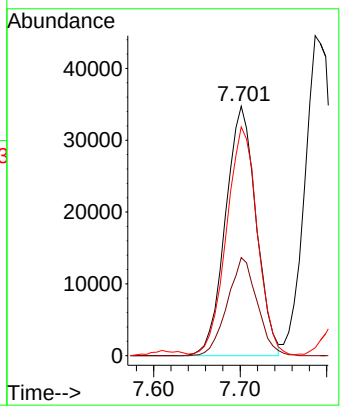
Tgt Ion: 56 Resp: 8537

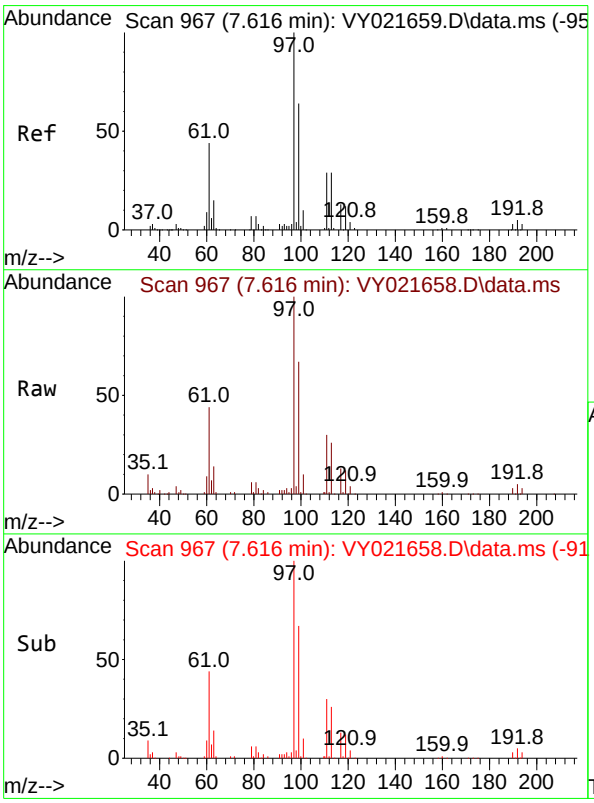
Ion	Ratio	Lower	Upper
56	100		
69	39.3	26.6	40.0
84	90.0	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

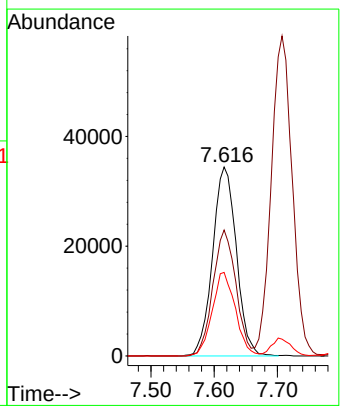


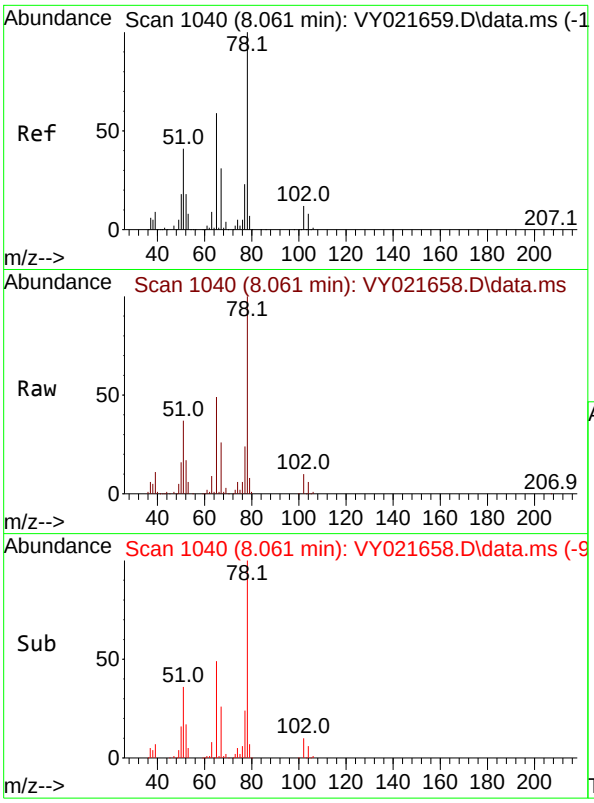


#32
1,1,1-Trichloroethane
Concen: 19.459 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 97 Resp: 89818

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.7	76.1
61	43.2	35.2	52.8

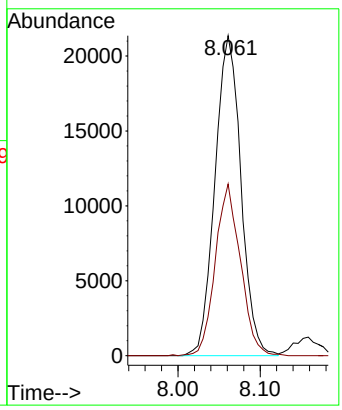




#33
1,2-Dichloroethane-d4
Concen: 18.542 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 65 Resp: 4702

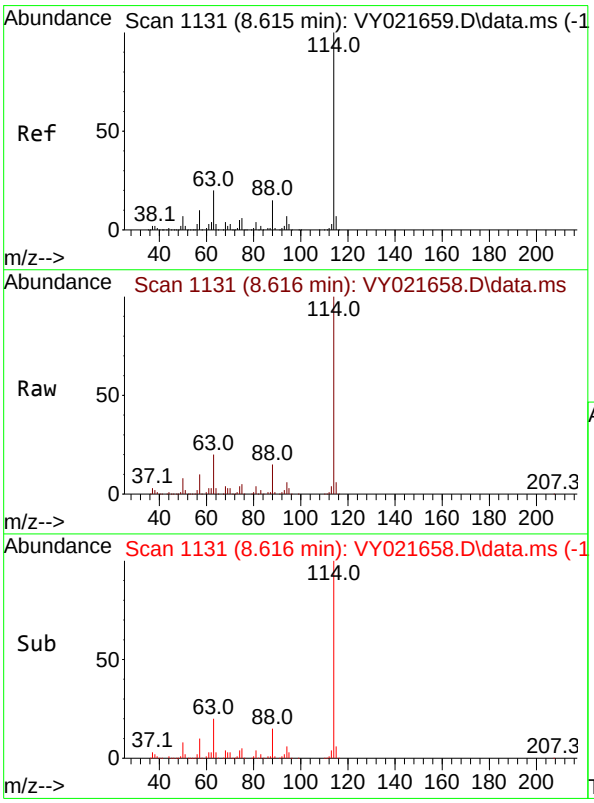
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

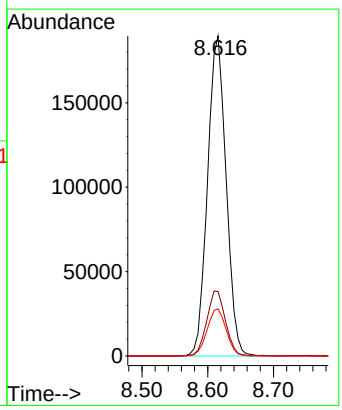
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

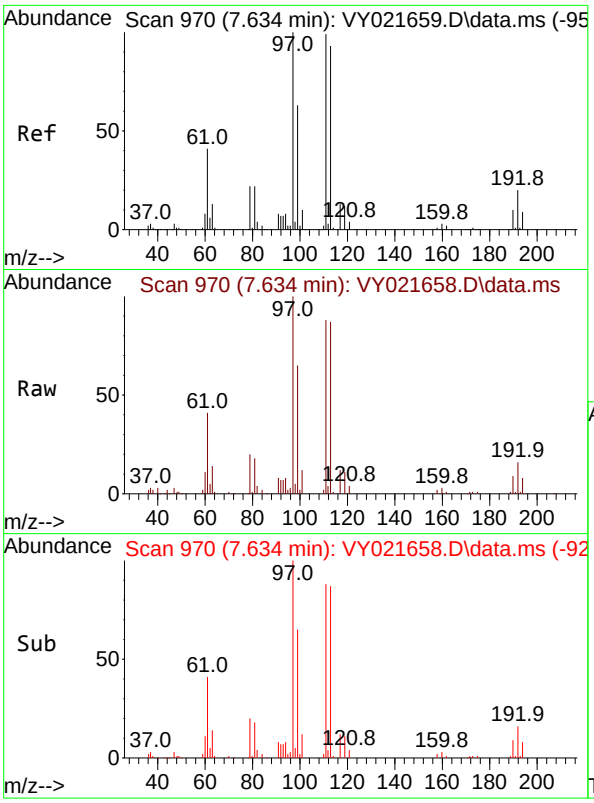


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:114 Resp: 372865

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.2
88	14.8	0.0	29.8

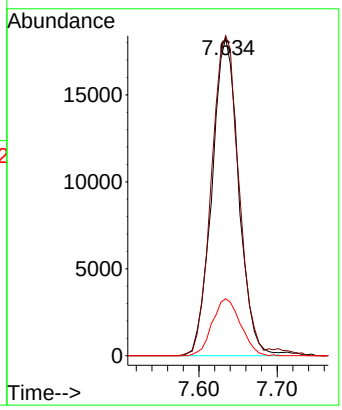




#35
Dibromofluoromethane
Concen: 17.910 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:113 Resp: 4331

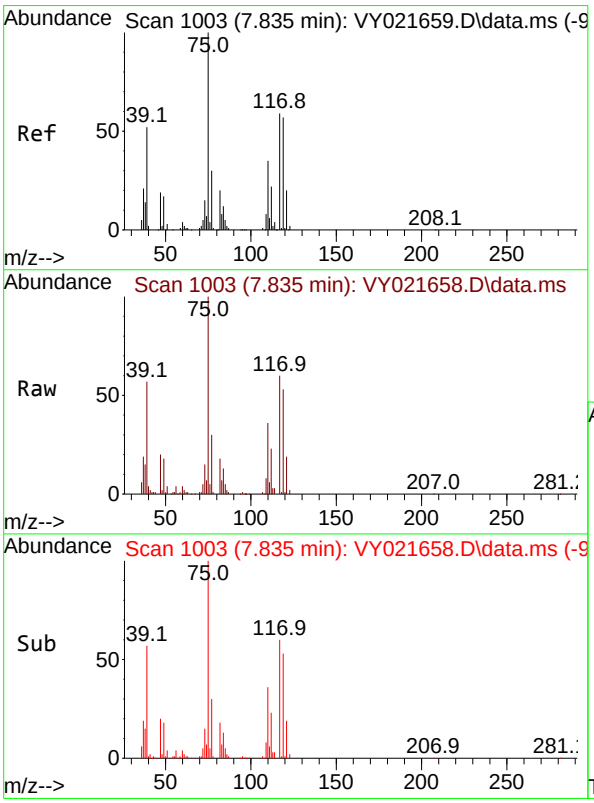
Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.6	123.8
192	19.0	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

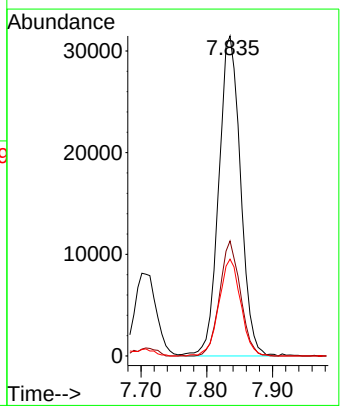
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

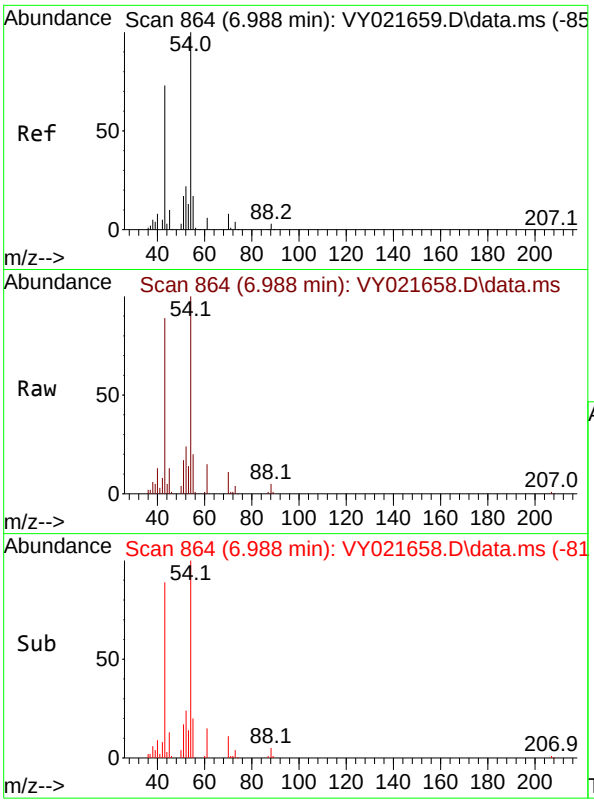


#36
1,1-Dichloropropene
Concen: 19.697 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 75 Resp: 72566

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.0	50.9
77	30.3	24.8	37.2





#37
Ethyl Acetate
Concen: 18.585 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

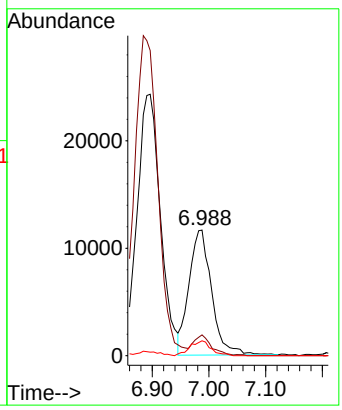
Tgt Ion: 43 Resp: 3231

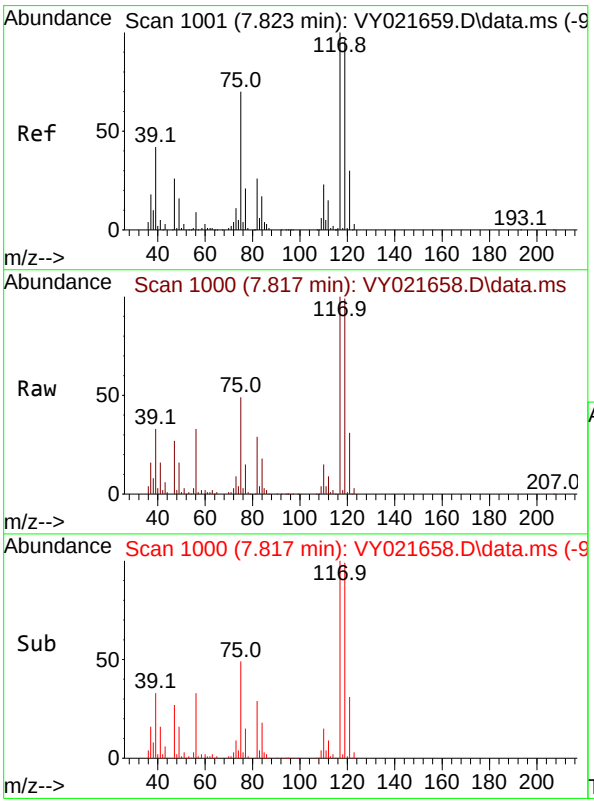
Ion	Ratio	Lower	Upper
43	100		
61	12.1	11.0	16.6
70	10.9	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

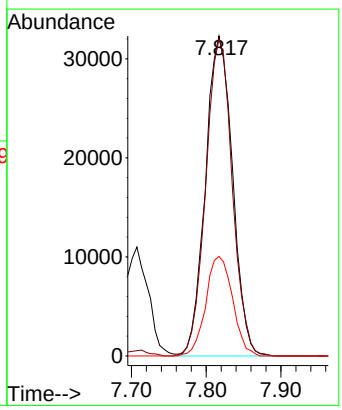


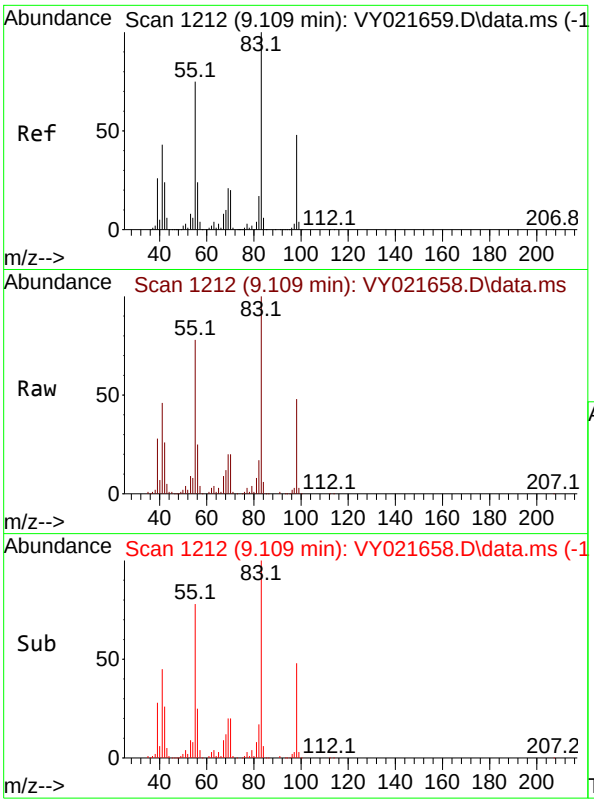


#38
Carbon Tetrachloride
Concen: 19.308 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:117 Resp: 81472

Ion	Ratio	Lower	Upper
117	100		
119	99.0	76.2	114.4
121	31.1	24.2	36.4





#39
Methylcyclohexane
Concen: 19.269 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

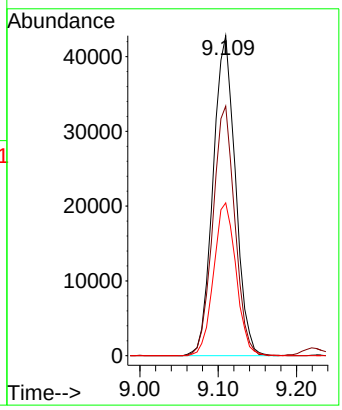
Tgt Ion: 83 Resp: 8480

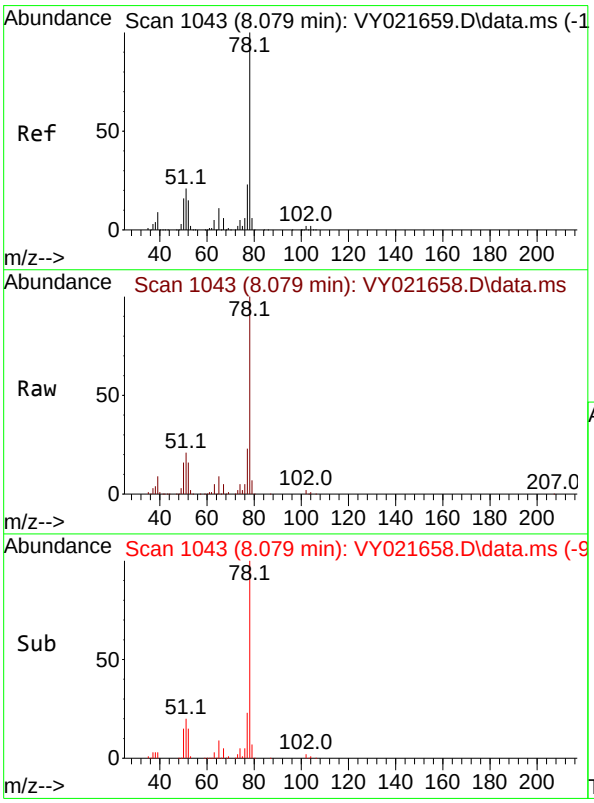
Ion	Ratio	Lower	Upper
83	100		
55	78.0	59.7	89.5
98	47.8	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

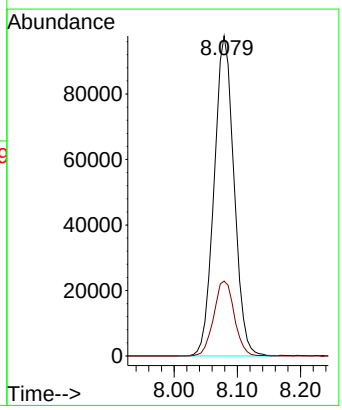


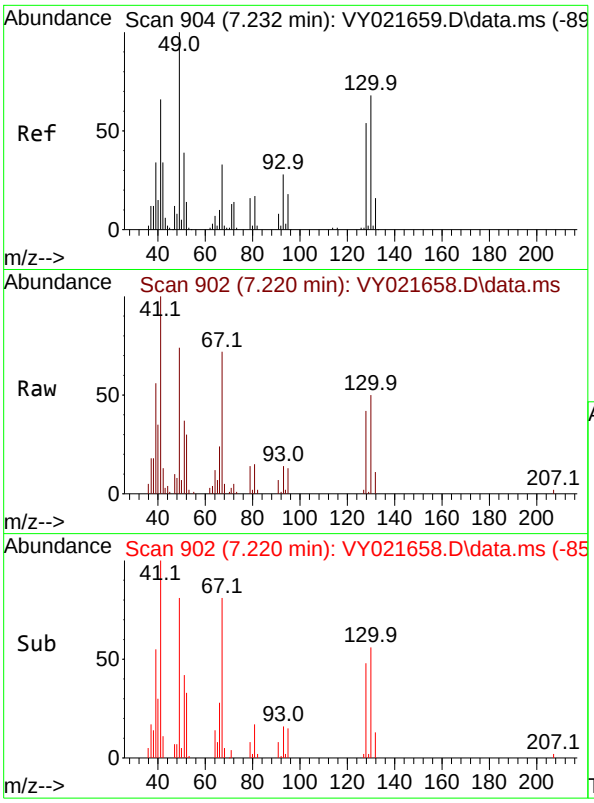


#40
Benzene
Concen: 19.313 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 78 Resp: 213074

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2

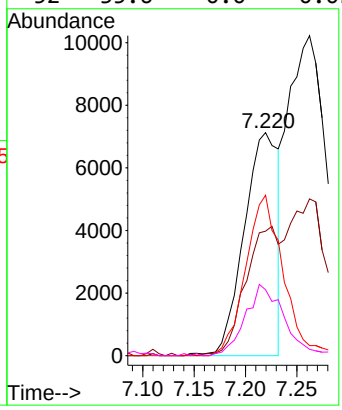




#41
Methacrylonitrile
Concen: 17.853 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 41 Resp: 1648

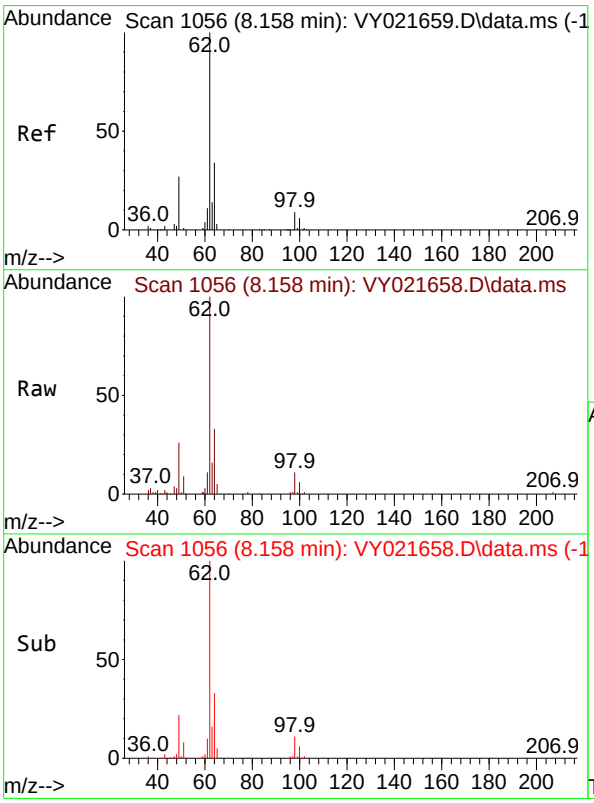
Ion	Ratio	Lower	Upper
41	100		
39	55.7	0.0	0.0#
67	78.7	0.0	0.0#
52	35.6	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

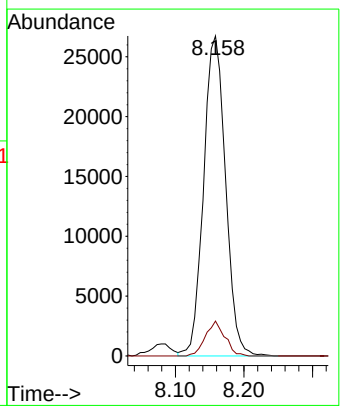
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

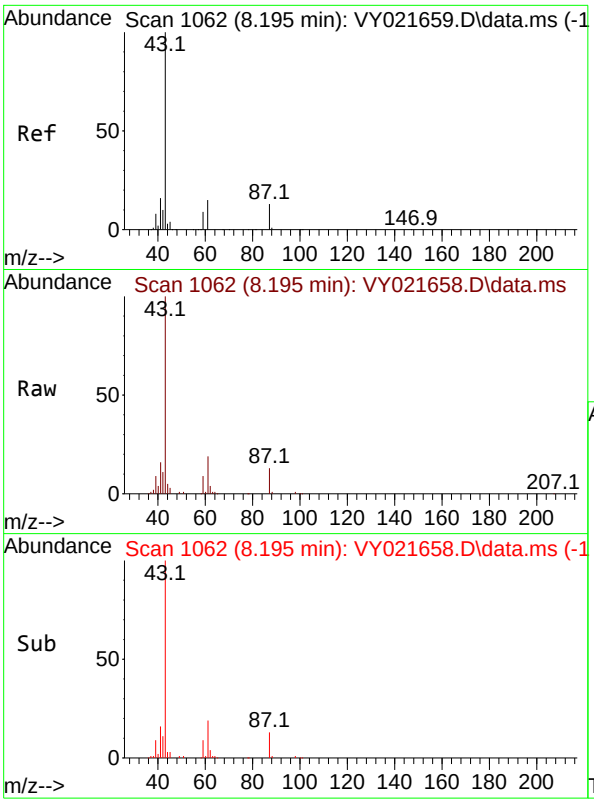


#42
1,2-Dichloroethane
Concen: 19.146 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 62 Resp: 59552

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.4

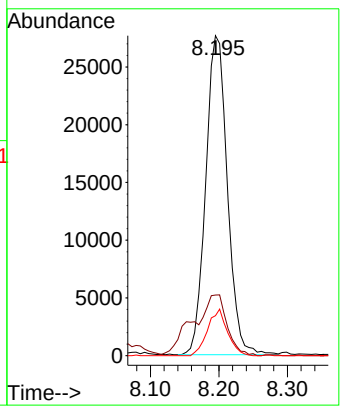




#43
Isopropyl Acetate
Concen: 18.451 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 43 Resp: 6079

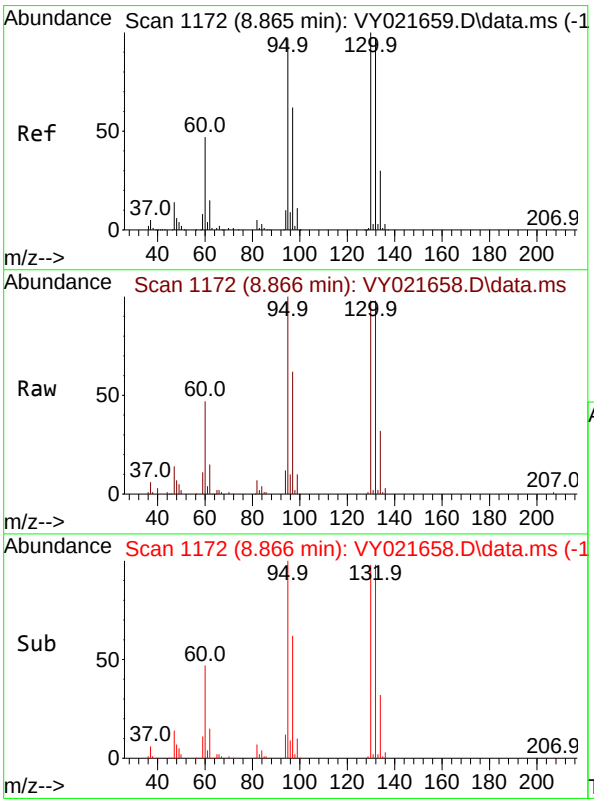
Ion	Ratio	Lower	Upper
43	100		
61	29.8	15.9	23.9
87	13.4	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

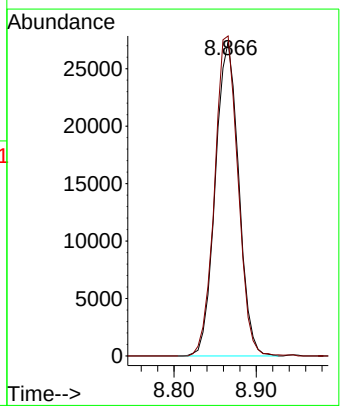
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

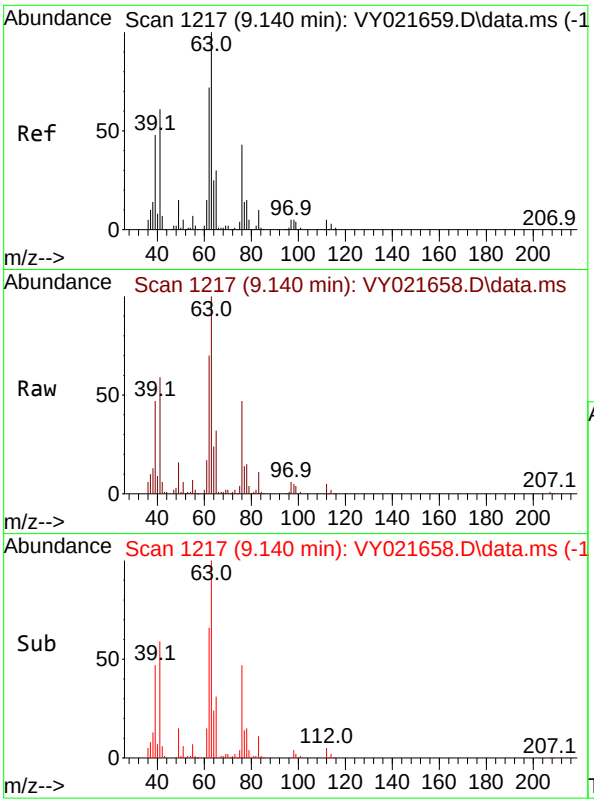


#44
Trichloroethene
Concen: 19.215 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:130 Resp: 54015

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	194.8

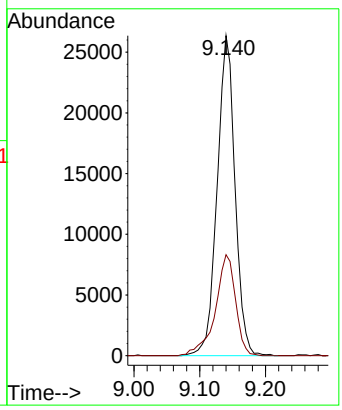




#45
1,2-Dichloropropane
Concen: 19.088 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 63 Resp: 4985

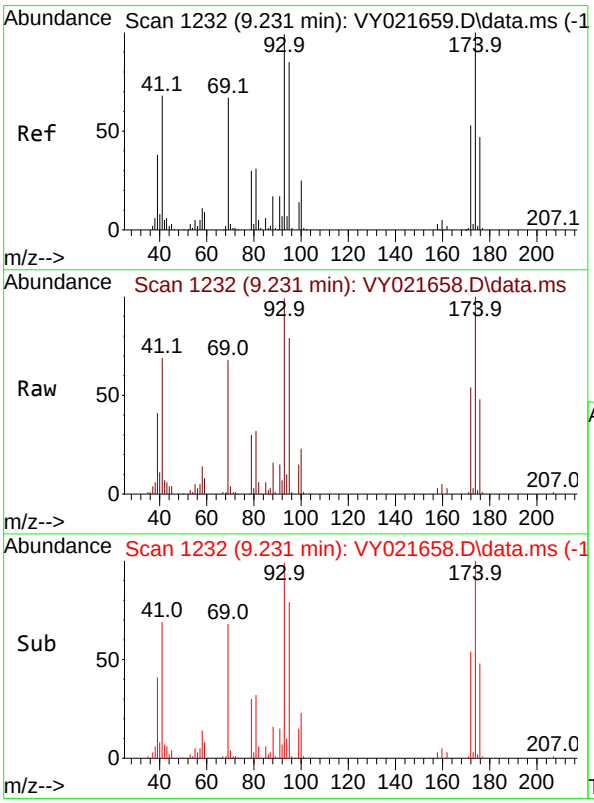
Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

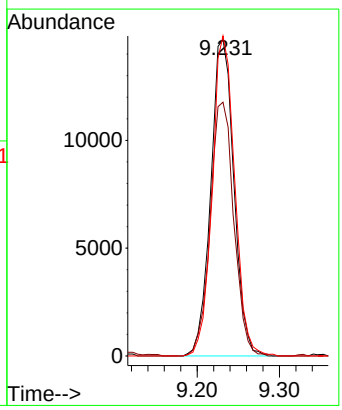
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

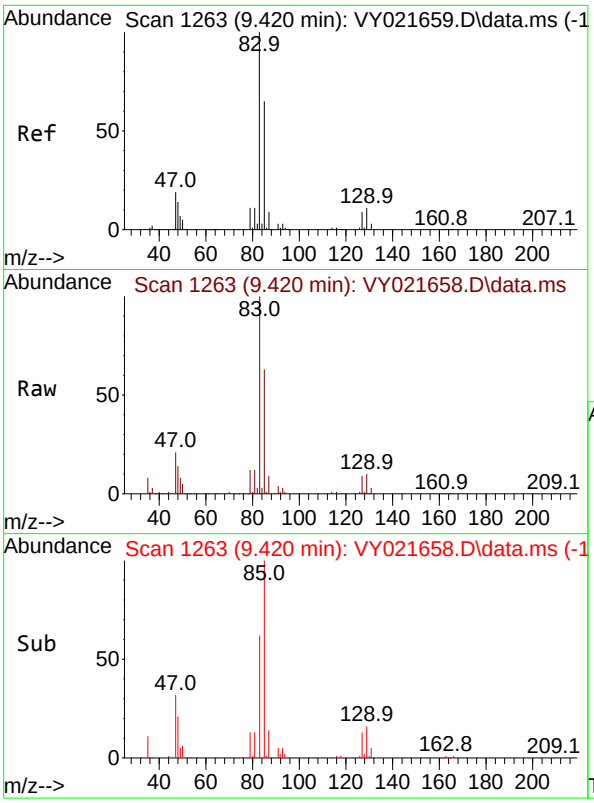


#46
Dibromomethane
Concen: 19.067 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 93 Resp: 28698

Ion	Ratio	Lower	Upper
93	100		
95	81.9	68.1	102.1
174	97.9	80.9	121.3

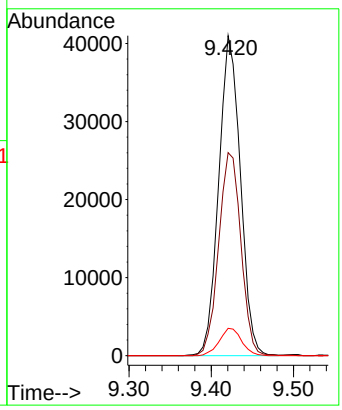




#47
Bromodichloromethane
Concen: 19.262 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 83 Resp: 7512

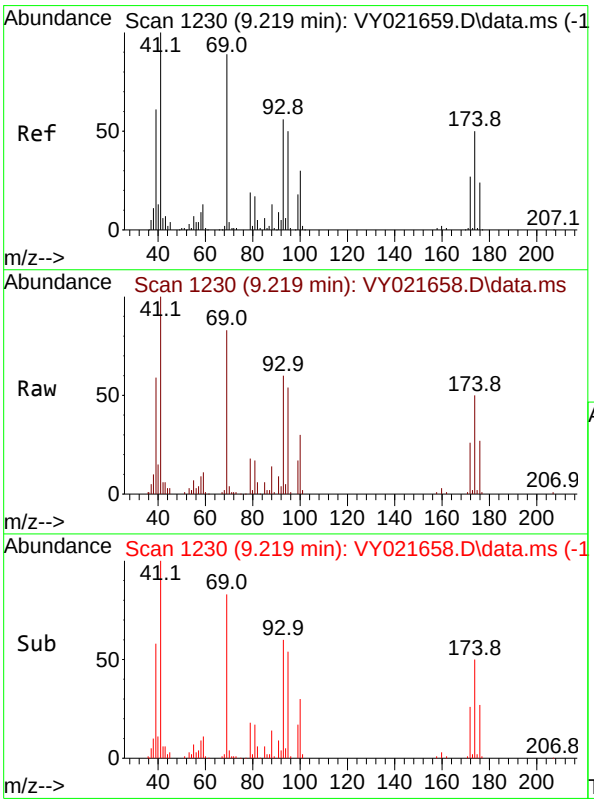
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6
127	8.5	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

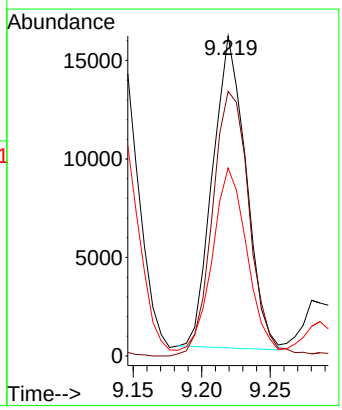
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

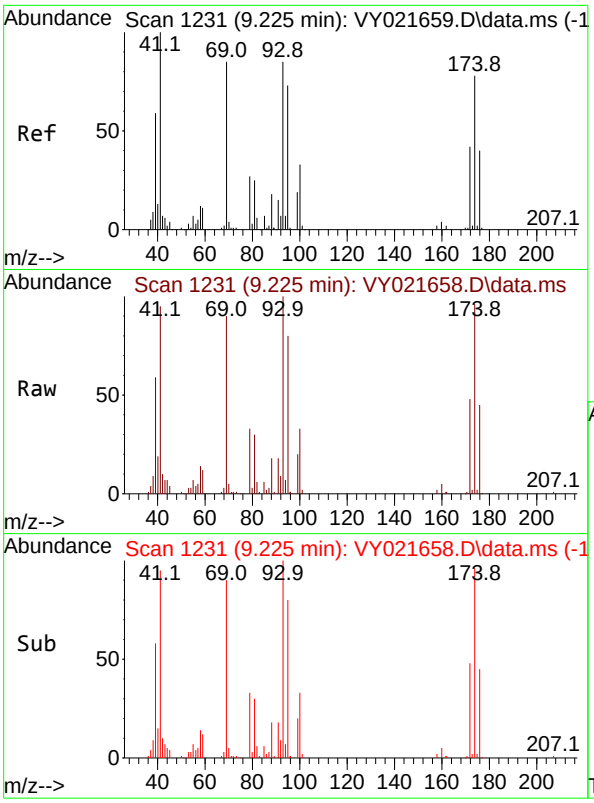


#48
Methyl methacrylate
Concen: 17.695 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 41 Resp: 26759

Ion	Ratio	Lower	Upper
41	100		
69	95.3	69.8	104.8
39	60.0	47.2	70.8

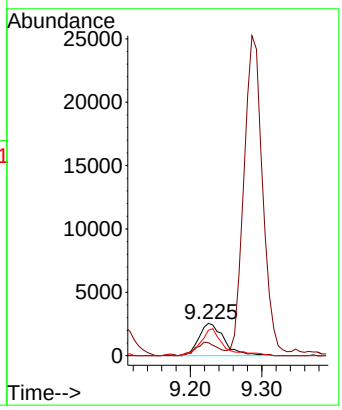




#49
1,4-Dioxane
Concen: 388.254 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 88 Resp: 626

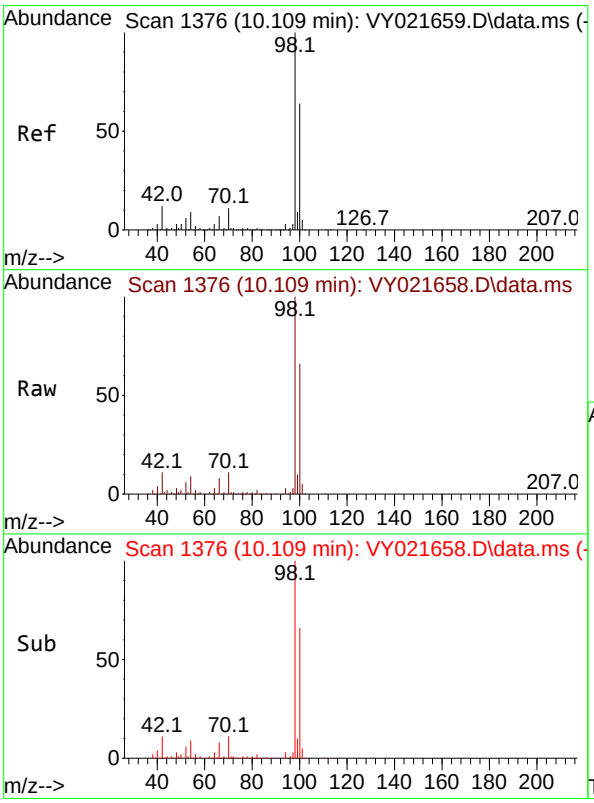
Ion	Ratio	Lower	Upper
88	100		
43	36.8	28.8	43.2
58	75.8	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

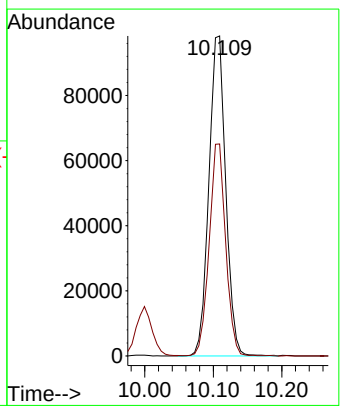
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

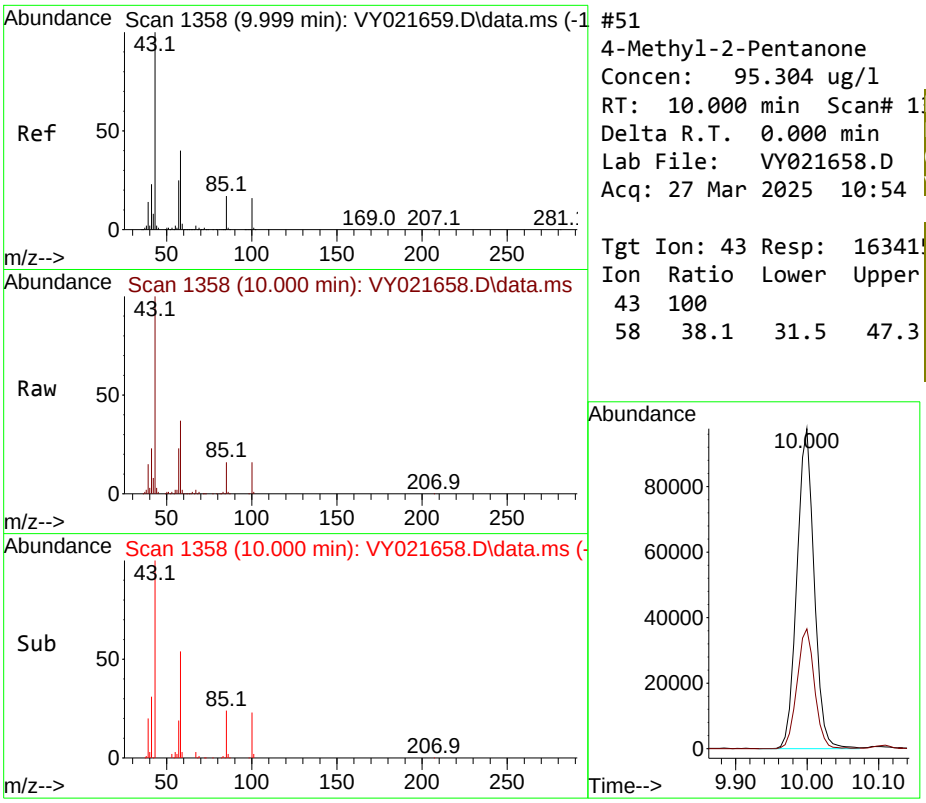


#50
Toluene-d8
Concen: 18.262 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 98 Resp: 168040

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1





#51
4-Methyl-2-Pentanone
Concen: 95.304 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

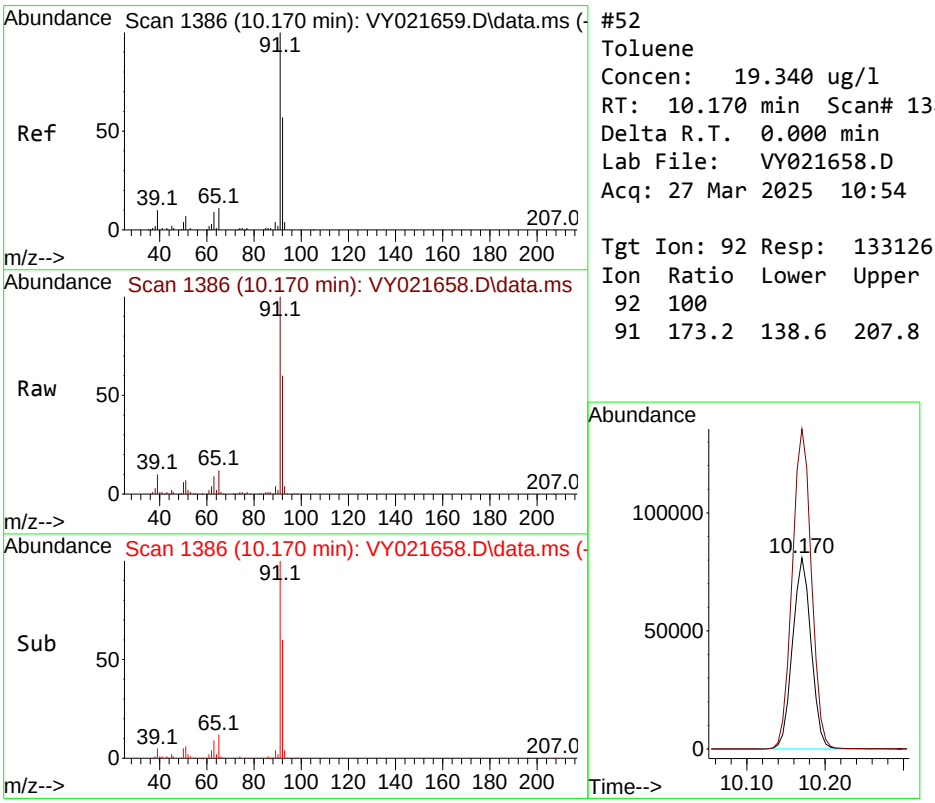
Tgt Ion: 43 Resp: 16341

Ion	Ratio	Lower	Upper
43	100		
58	38.1	31.5	47.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

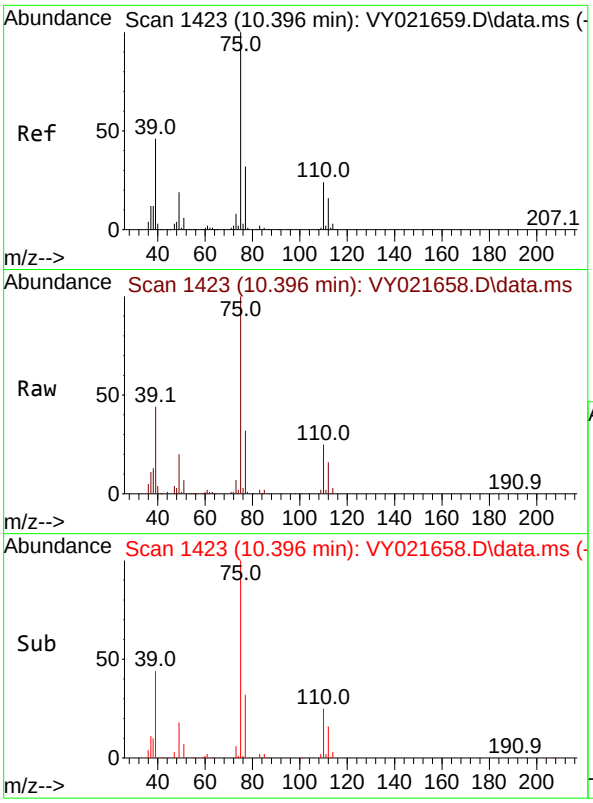
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#52
Toluene
Concen: 19.340 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 92 Resp: 133126

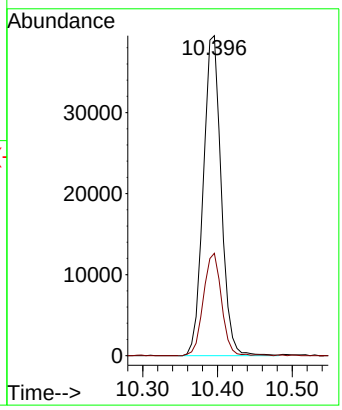
Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.6	207.8



#53
t-1,3-Dichloropropene
Concen: 18.919 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 75 Resp: 6553(

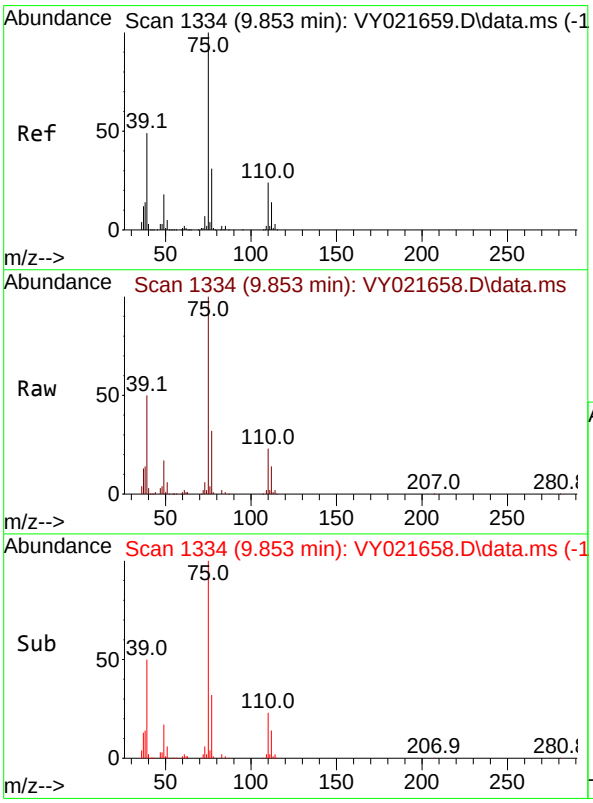
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

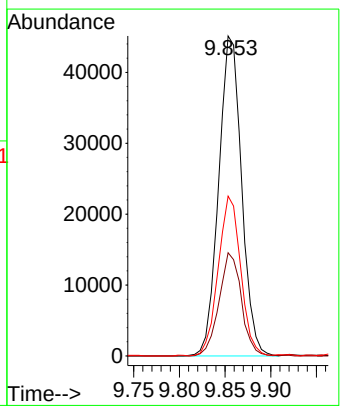
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

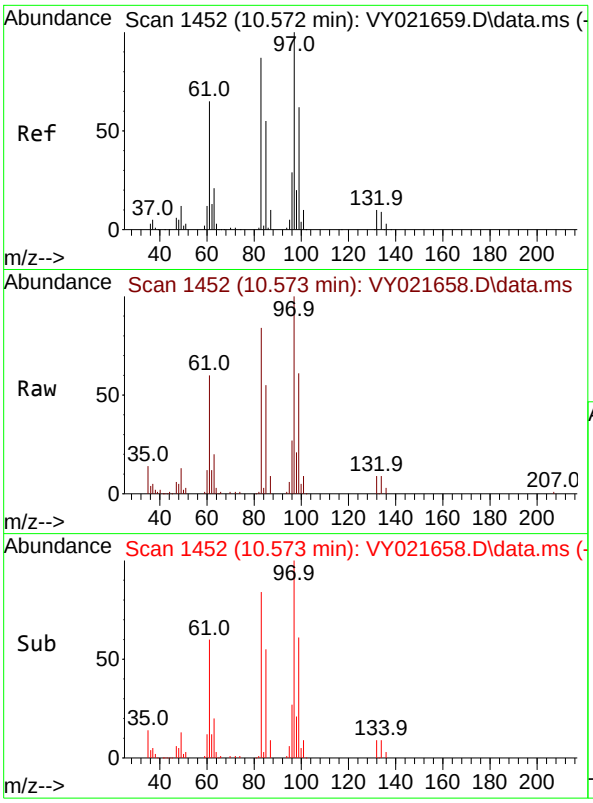


#54
cis-1,3-Dichloropropene
Concen: 19.271 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 75 Resp: 78753

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.9	37.3
39	49.7	39.2	58.8

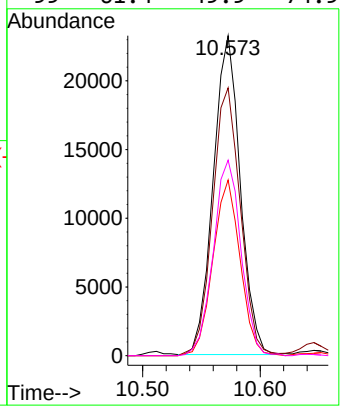




#55
1,1,2-Trichloroethane
Concen: 19.140 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 97 Resp: 3707

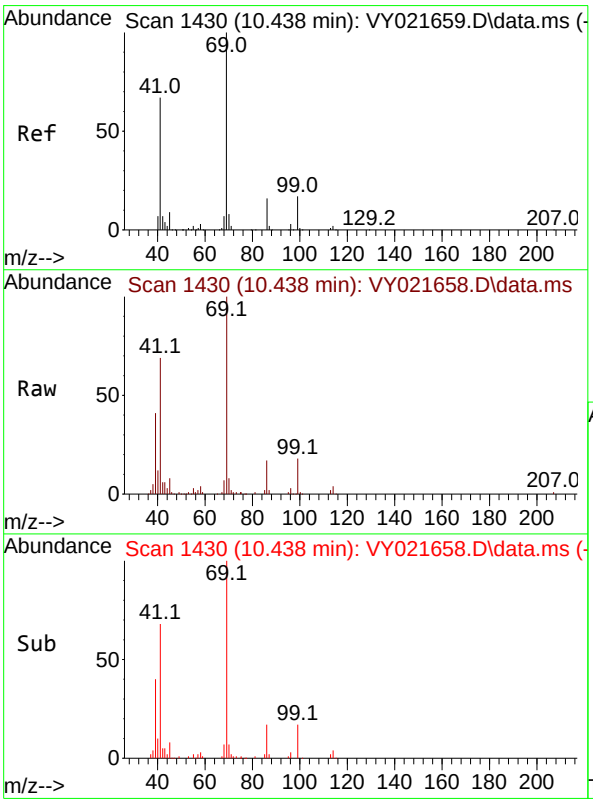
Ion	Ratio	Lower	Upper
97	100		
83	84.0	69.5	104.3
85	55.1	43.9	65.9
99	61.4	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

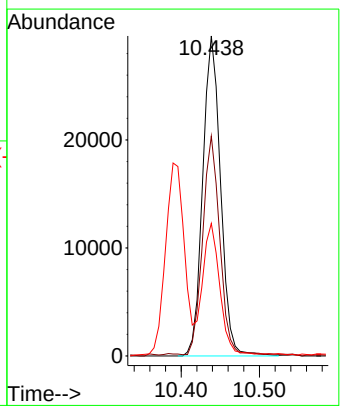
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

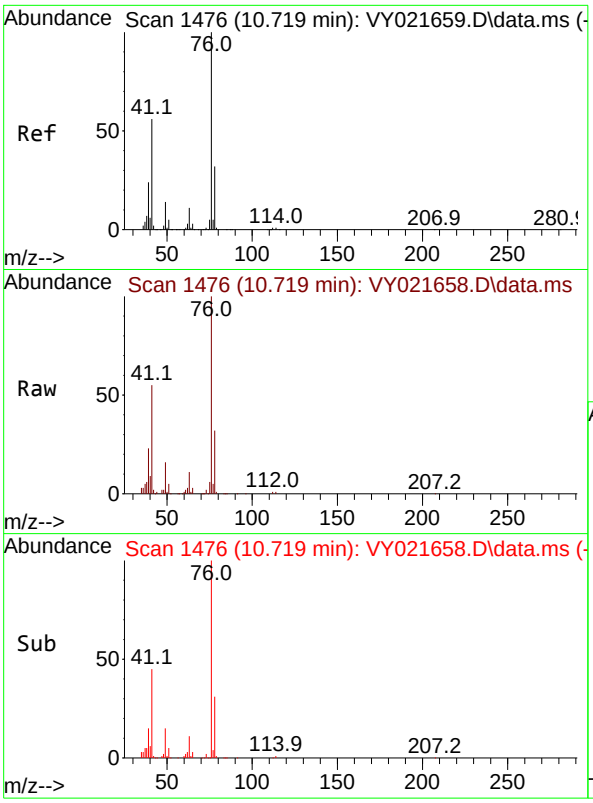


#56
Ethyl methacrylate
Concen: 18.936 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 69 Resp: 46833

Ion	Ratio	Lower	Upper
69	100		
41	65.3	53.8	80.6
39	39.6	29.6	44.4

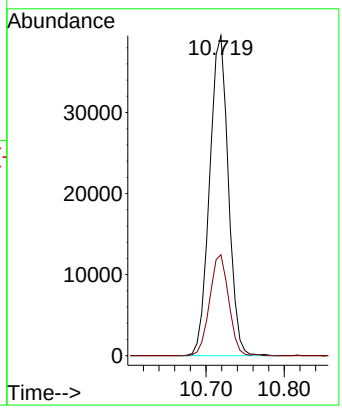




#57
1,3-Dichloropropane
Concen: 19.600 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 76 Resp: 6556

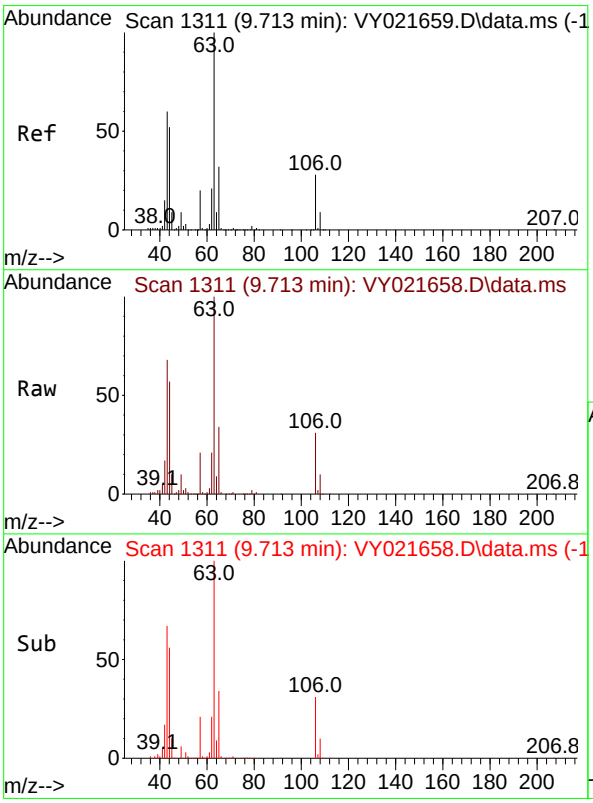
Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

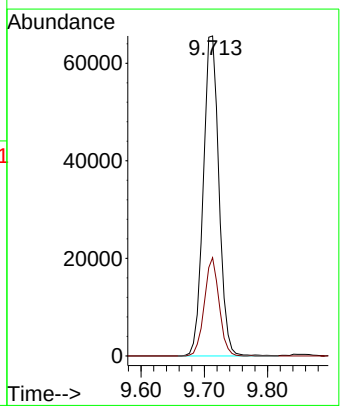
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

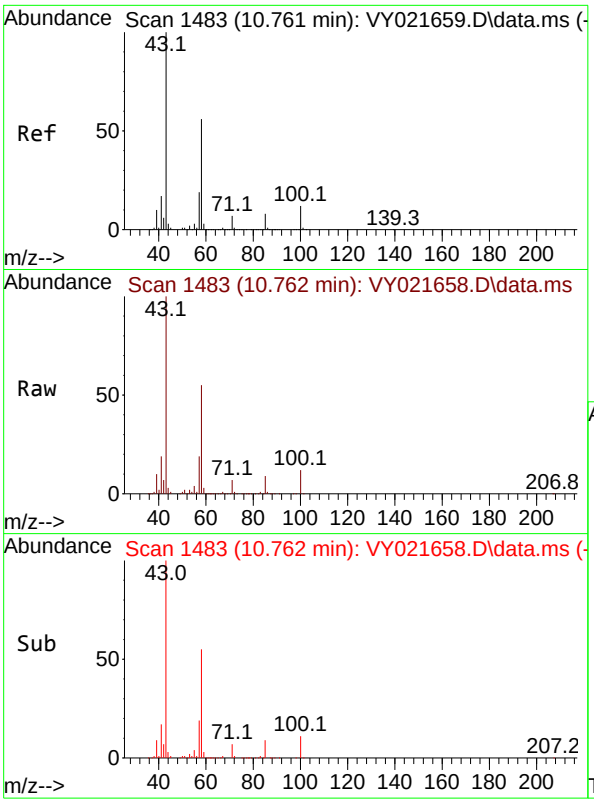


#58
2-Chloroethyl Vinyl ether
Concen: 93.615 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 63 Resp: 112947

Ion	Ratio	Lower	Upper
63	100		
106	28.9	22.4	33.6





#59
2-Hexanone
Concen: 94.241 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

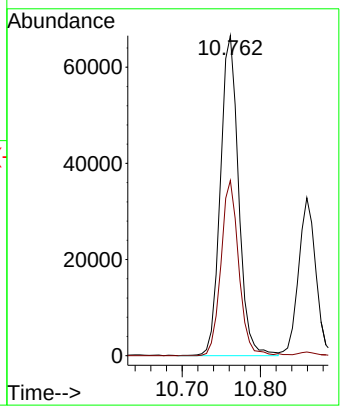
Tgt Ion: 43 Resp: 10761

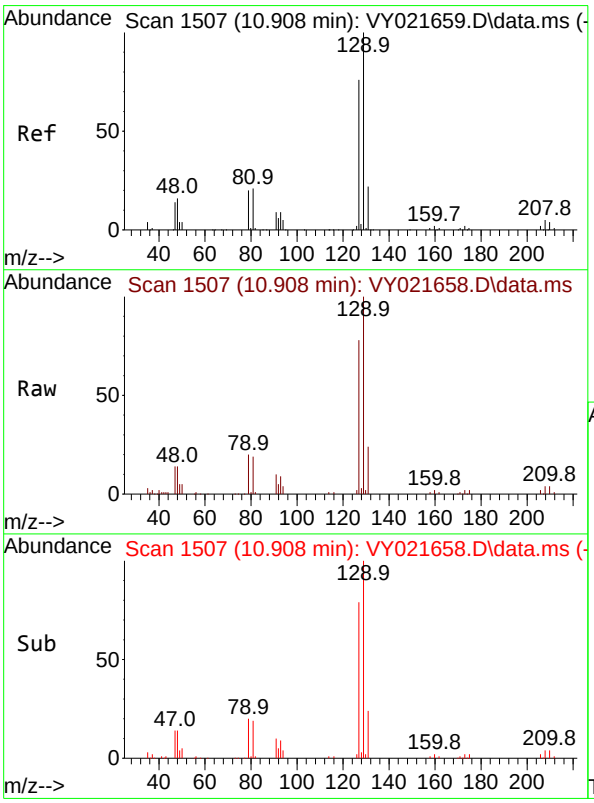
Ion	Ratio	Lower	Upper
43	100		
58	53.3	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

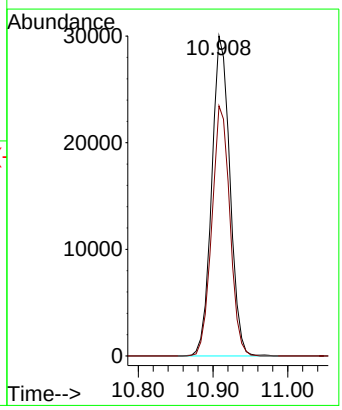


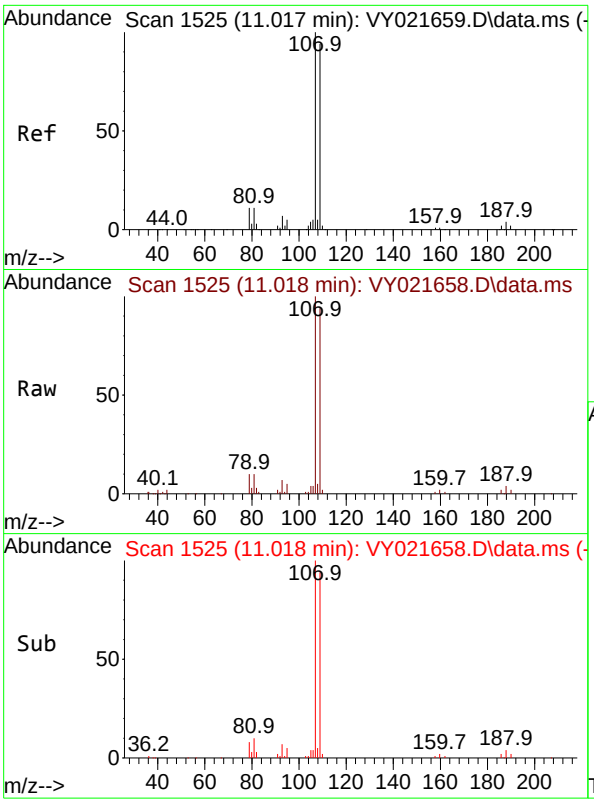


#60
Dibromochloromethane
Concen: 19.187 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:129 Resp: 50740

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.7

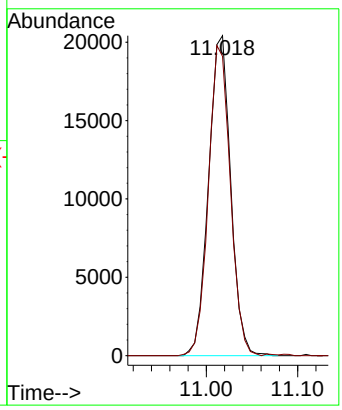




#61
1,2-Dibromoethane
Concen: 18.874 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:107 Resp: 3429

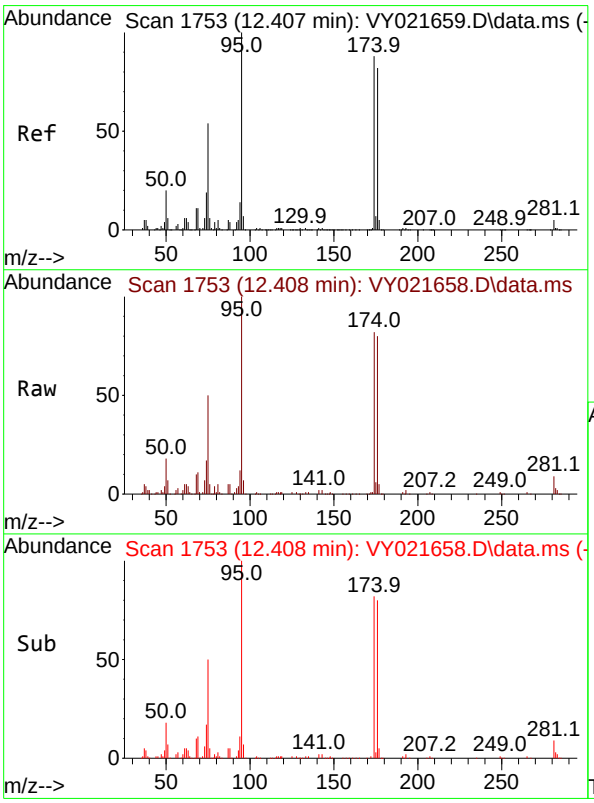
Ion	Ratio	Lower	Upper
107	100		
109	95.9	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

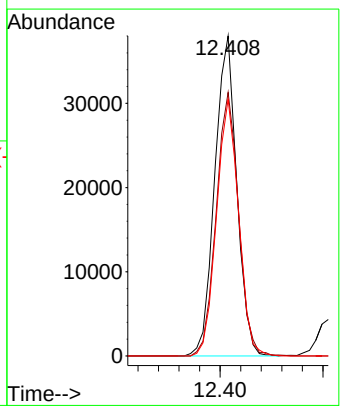
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

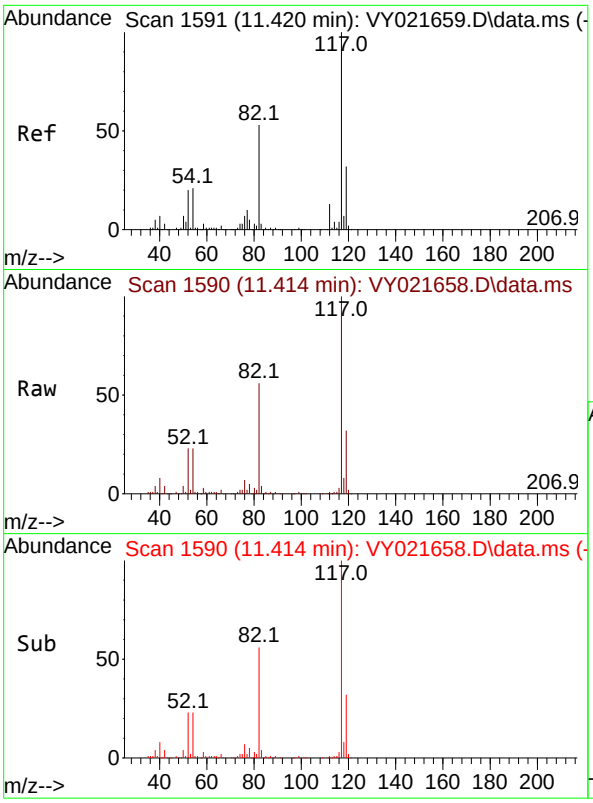


#62
4-Bromofluorobenzene
Concen: 18.092 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 95 Resp: 56308

Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	170.8
176	80.6	0.0	162.0

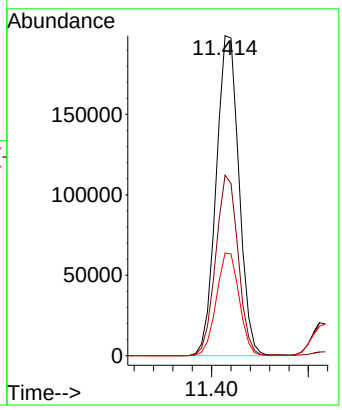




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:117 Resp: 32515

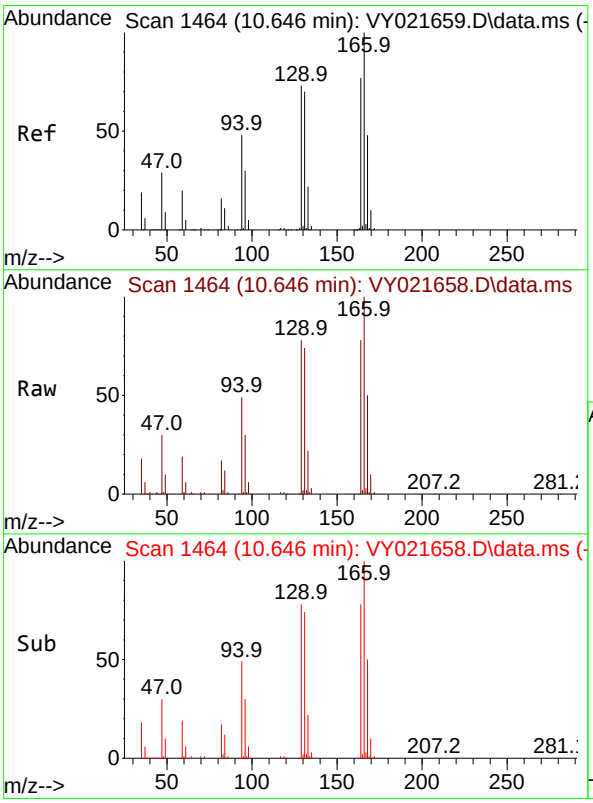
Ion	Ratio	Lower	Upper
117	100		
82	56.4	42.8	64.2
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

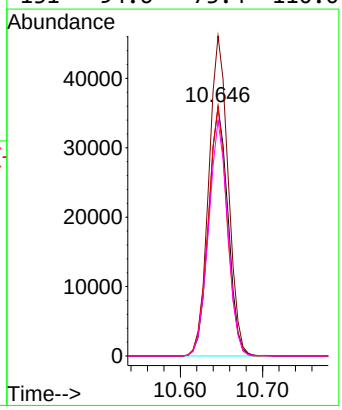
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

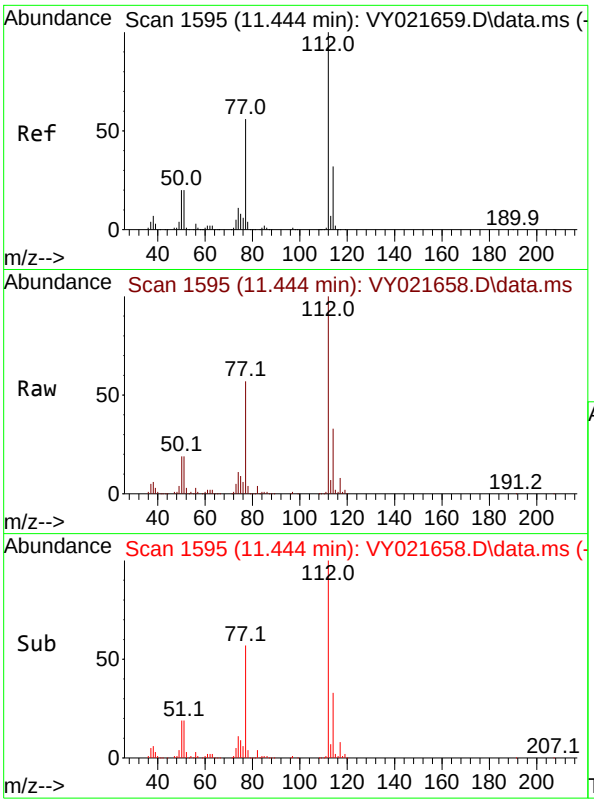


#64
Tetrachloroethene
Concen: 19.897 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:164 Resp: 58923

Ion	Ratio	Lower	Upper
164	100		
166	128.5	104.6	156.8
129	100.1	76.6	114.8
131	94.6	73.4	110.0

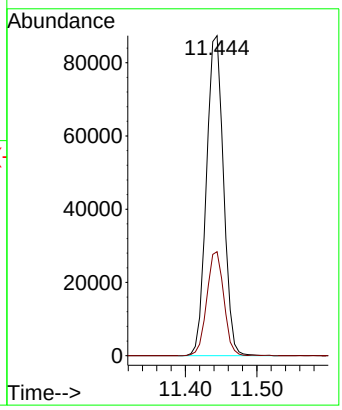




#65
Chlorobenzene
Concen: 19.375 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:112 Resp: 14441

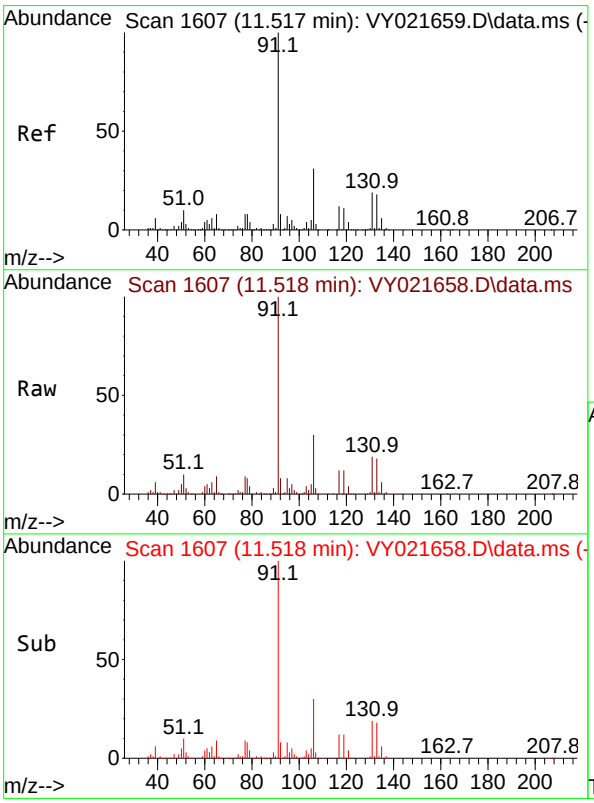
Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

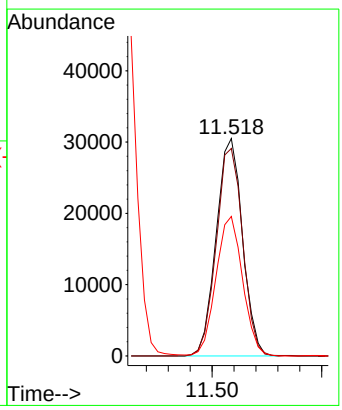
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

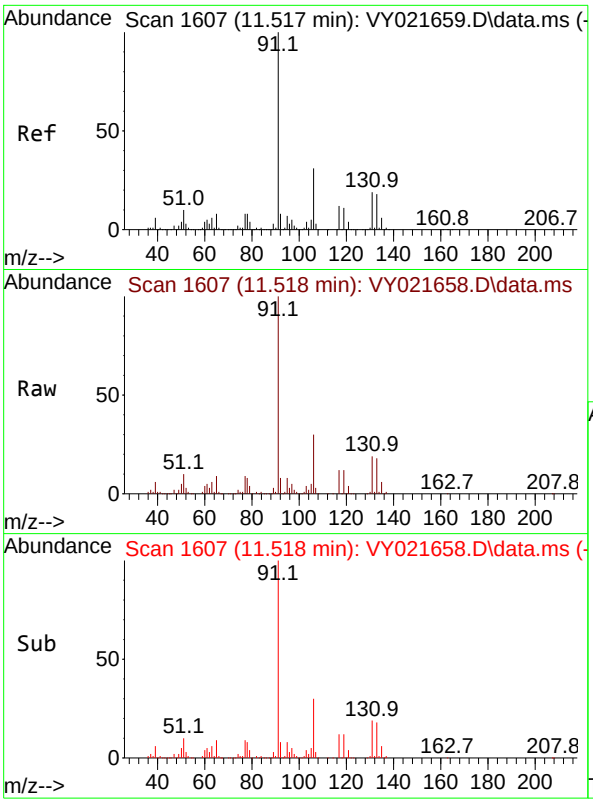


#66
1,1,1,2-Tetrachloroethane
Concen: 19.173 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:131 Resp: 50703

Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.3	141.8
119	65.2	31.6	95.0

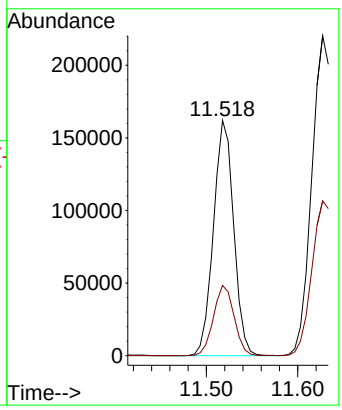




#67
Ethyl Benzene
Concen: 19.515 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 91 Resp: 24943

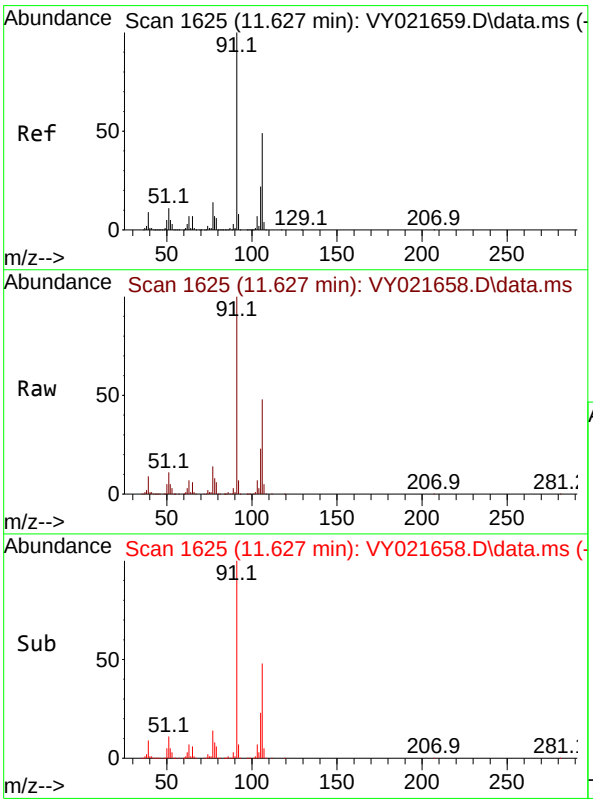
Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

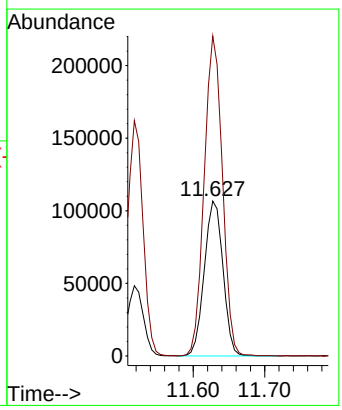
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

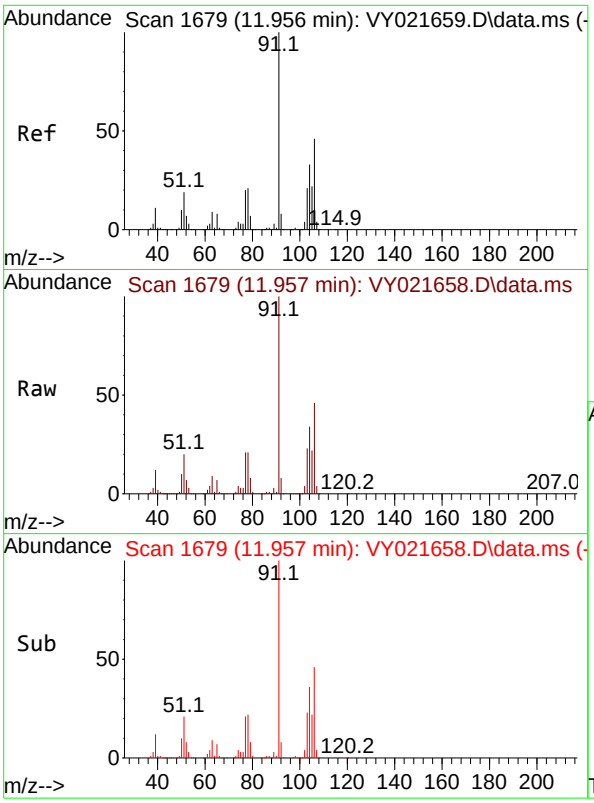


#68
m/p-Xylenes
Concen: 39.549 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:106 Resp: 193566

Ion	Ratio	Lower	Upper
106	100		
91	201.0	162.4	243.6





#69
o-Xylene
Concen: 19.462 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

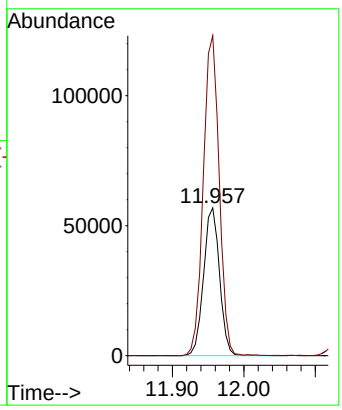
Tgt Ion:106 Resp: 8792

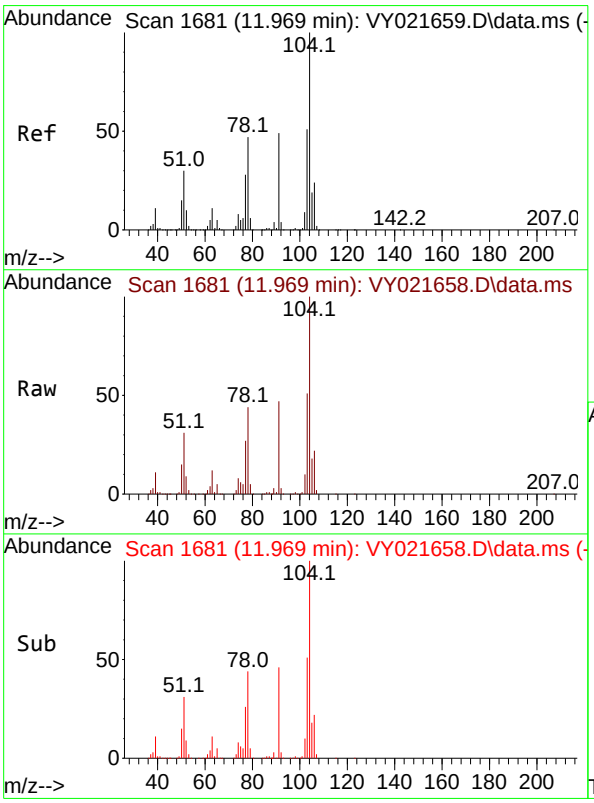
Ion	Ratio	Lower	Upper
106	100		
91	216.7	106.7	319.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

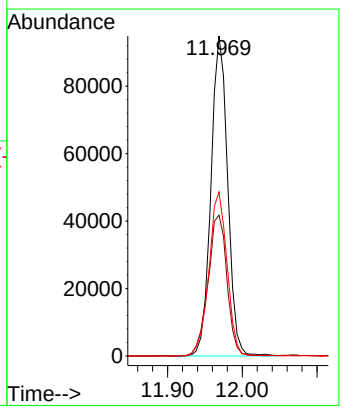


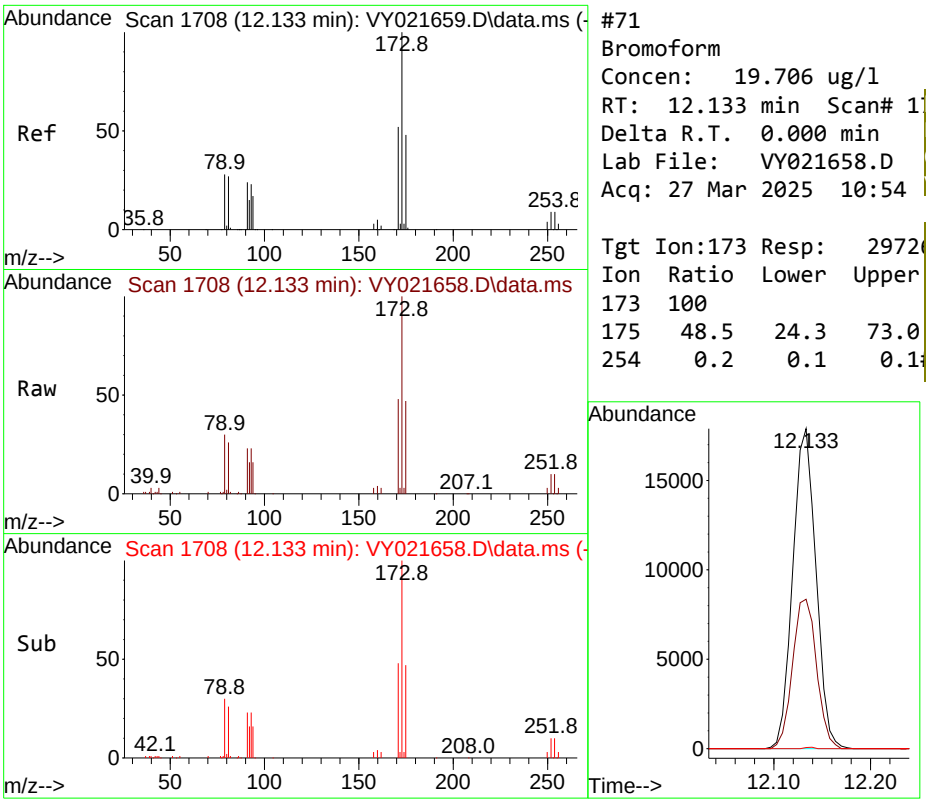


#70
Styrene
Concen: 19.580 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:104 Resp: 147490

Ion	Ratio	Lower	Upper
104	100		
78	49.9	40.8	61.2
103	55.7	44.2	66.2





#71
Bromoform
Concen: 19.706 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

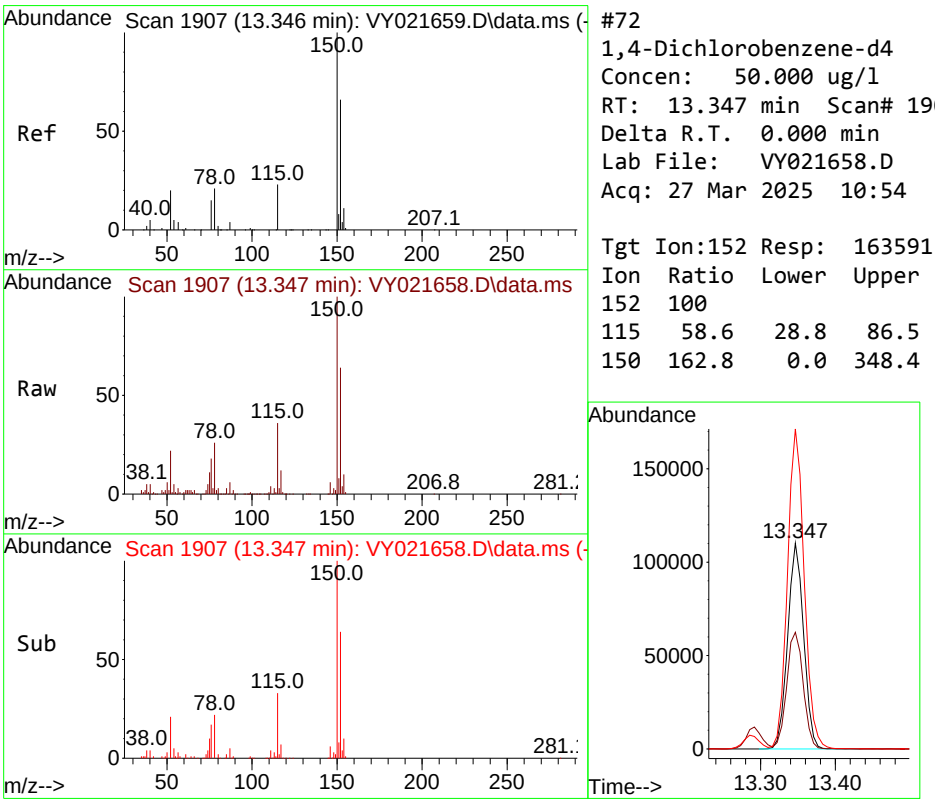
Tgt Ion:173 Resp: 2972

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	73.0
254	0.2	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

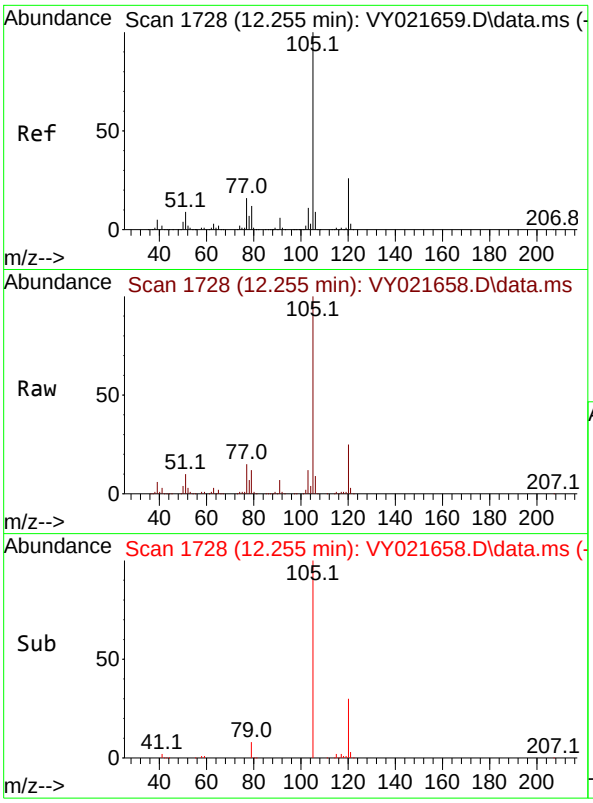
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:152 Resp: 163591

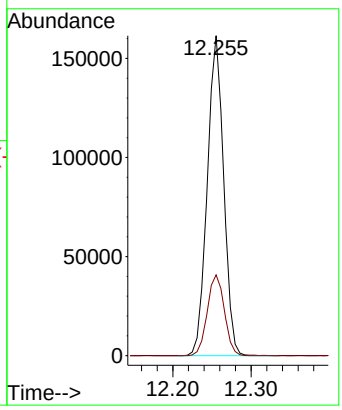
Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.8	86.5
150	162.8	0.0	348.4



#73
Isopropylbenzene
Concen: 19.290 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:105 Resp: 23438

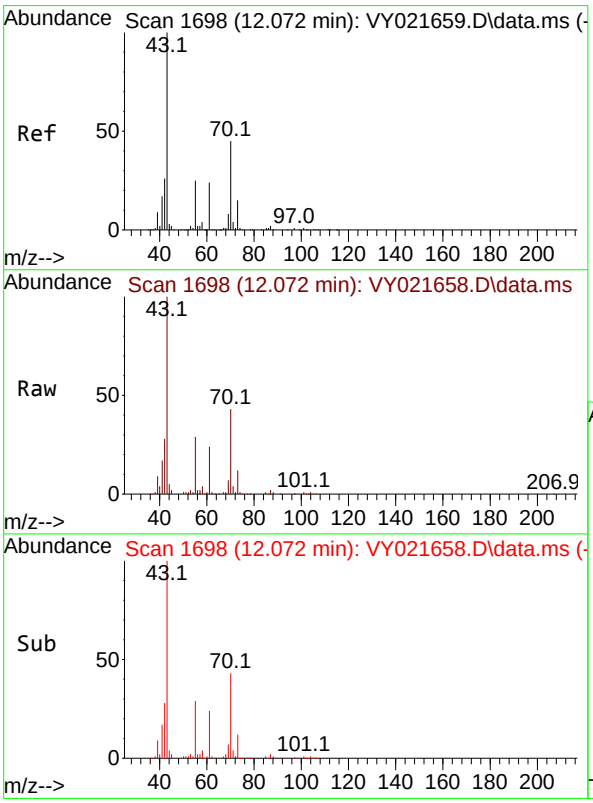
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

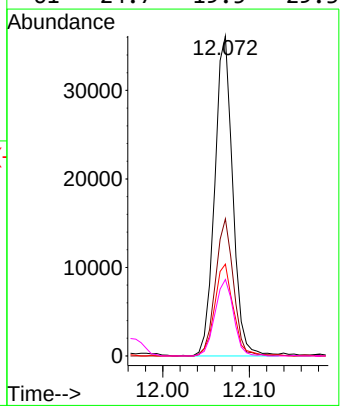
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

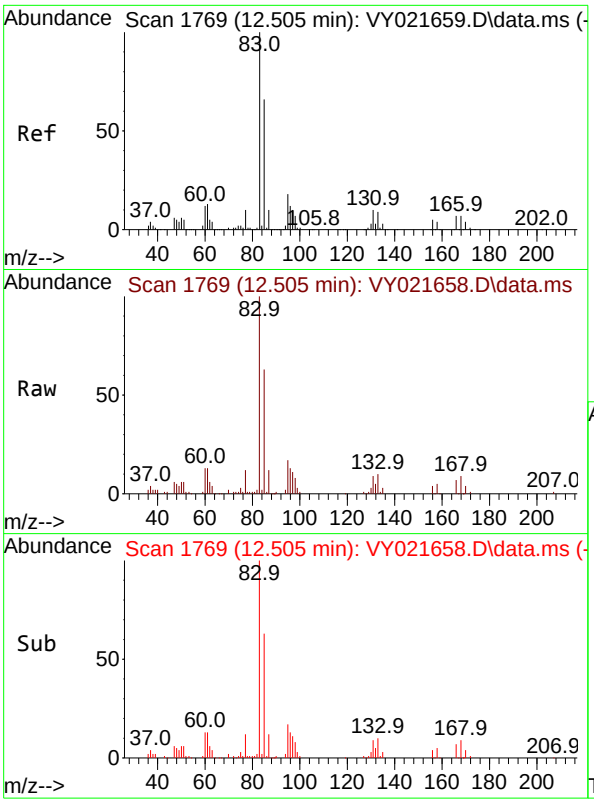


#74
N-amyl acetate
Concen: 18.355 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 43 Resp: 52342

Ion	Ratio	Lower	Upper
43	100		
70	42.9	34.7	52.1
55	30.0	21.2	31.8
61	24.7	19.5	29.3

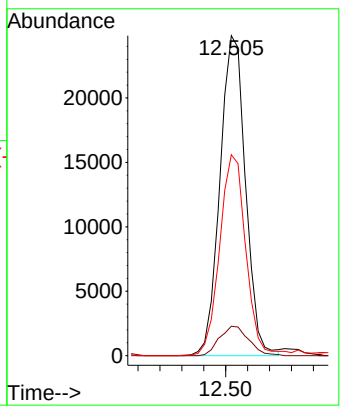




#75
1,1,2,2-Tetrachloroethane
Concen: 18.438 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 83 Resp: 4027

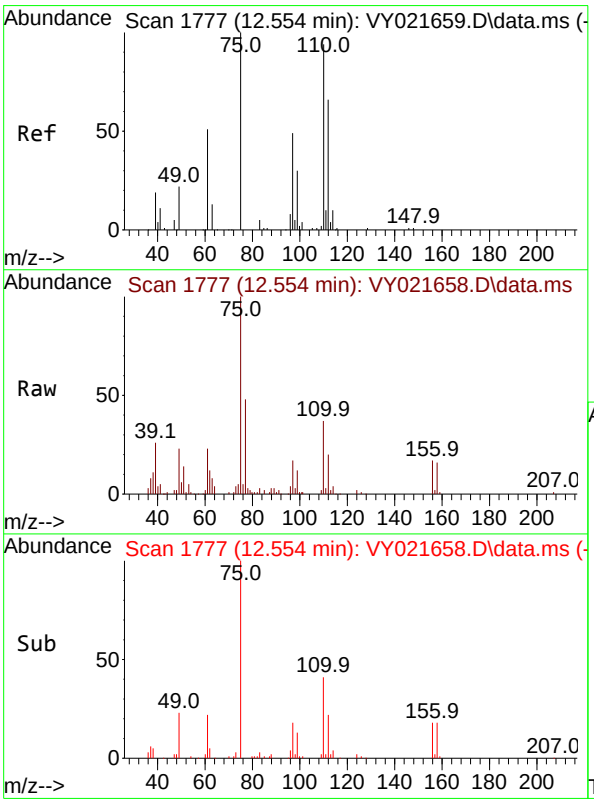
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.3
85	64.3	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

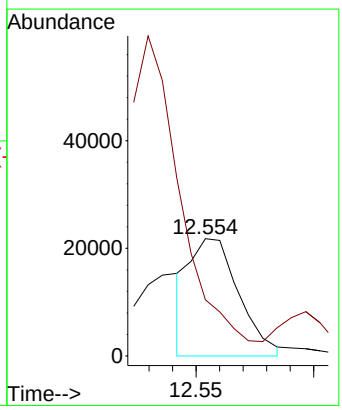
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

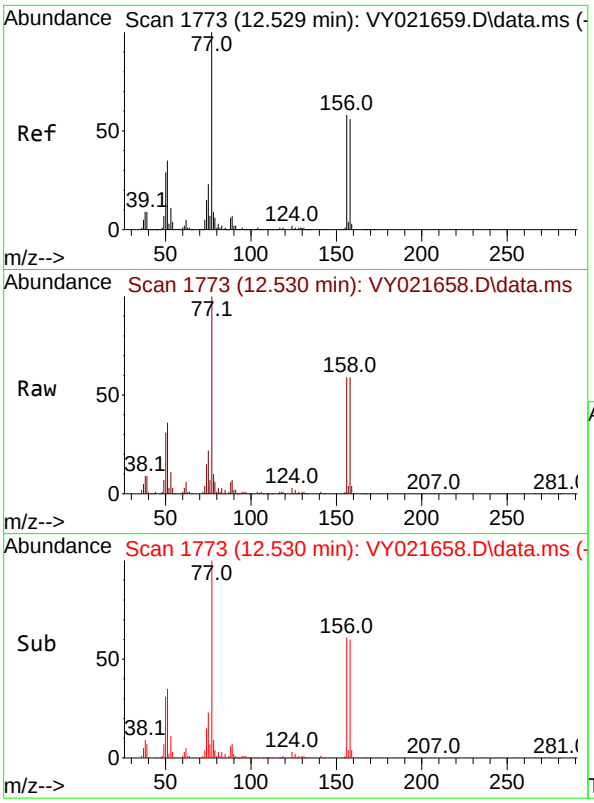


#76
1,2,3-Trichloropropane
Concen: 19.644 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 75 Resp: 31855

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

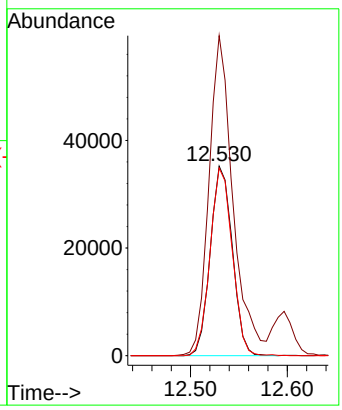




#77
Bromobenzene
Concen: 19.119 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:156 Resp: 5577

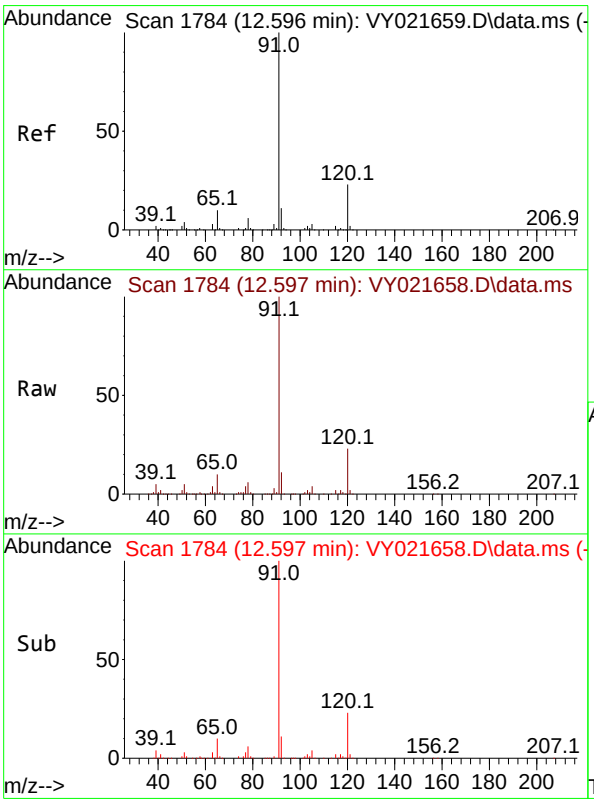
Ion	Ratio	Lower	Upper
156	100		
77	184.4	92.8	278.3
158	99.7	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

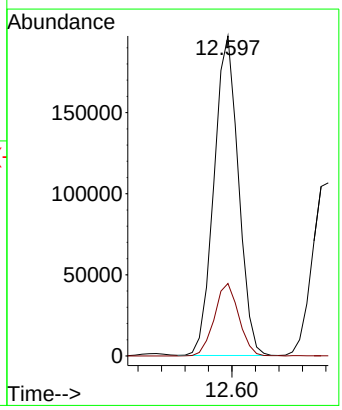
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

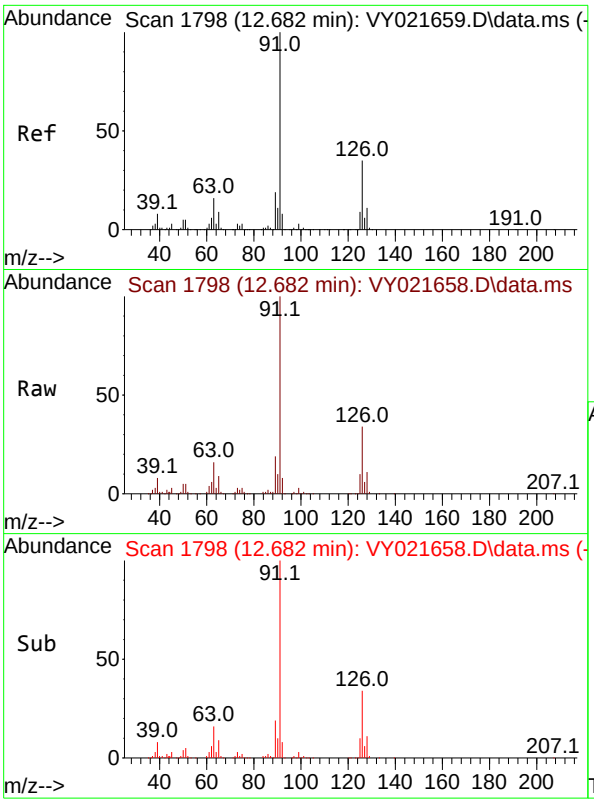


#78
n-propylbenzene
Concen: 19.480 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 91 Resp: 284563

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.3	33.9

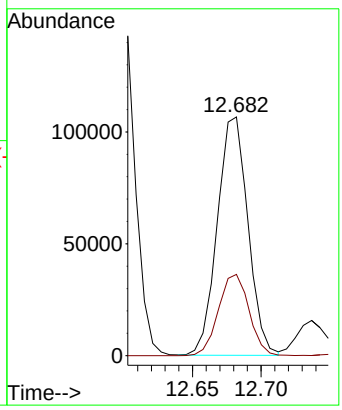




#79
2-Chlorotoluene
Concen: 19.555 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 91 Resp: 16591

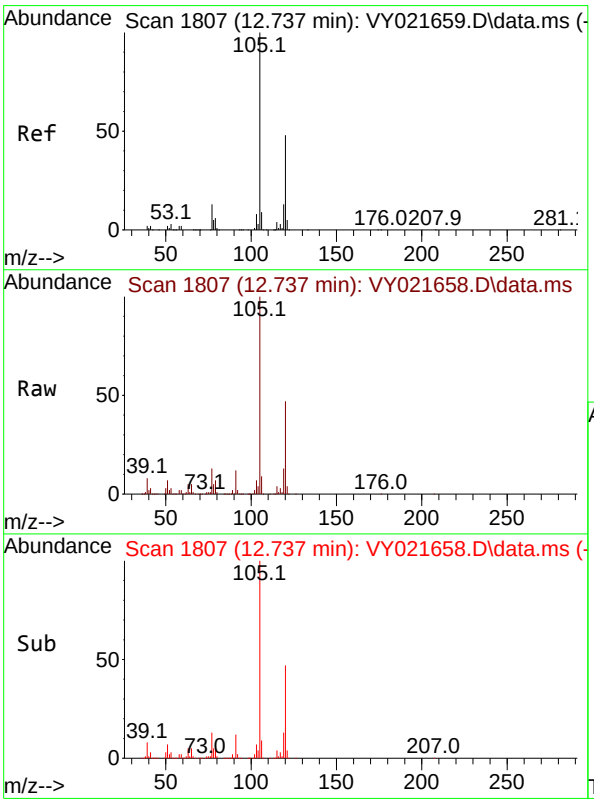
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

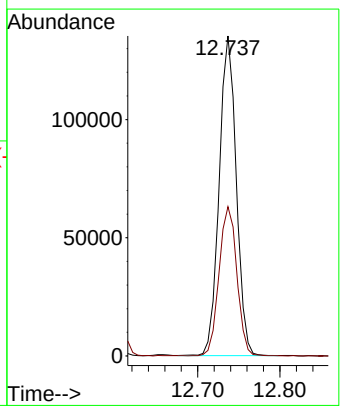
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

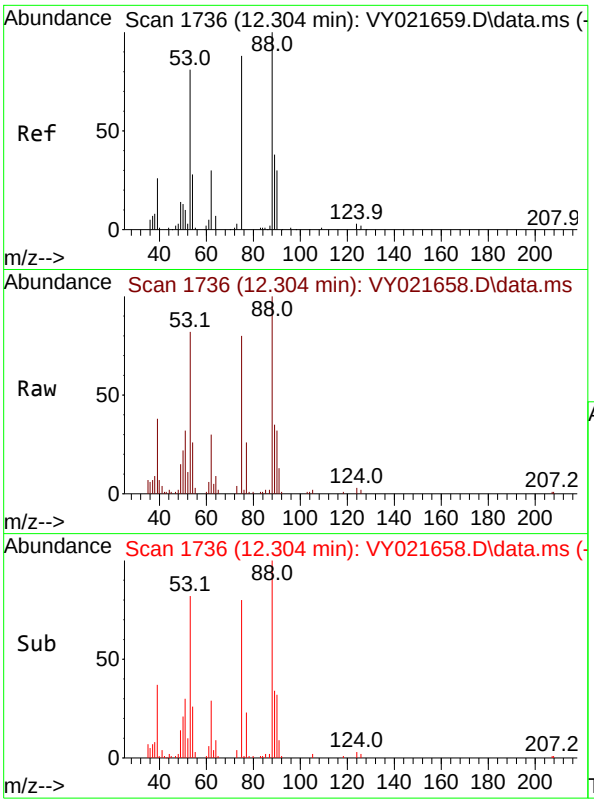


#80
1,3,5-Trimethylbenzene
Concen: 19.651 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:105 Resp: 195141

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.5	73.5

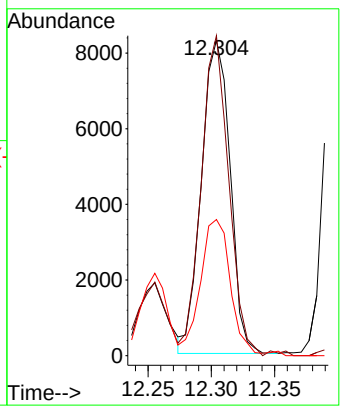




#81
trans-1,4-Dichloro-2-butene
Concen: 18.502 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 75 Resp: 1302

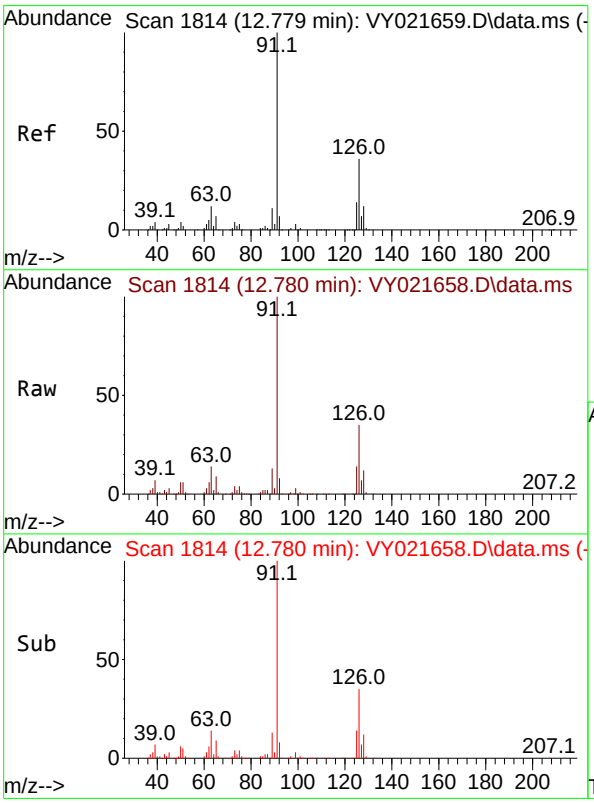
Ion	Ratio	Lower	Upper
75	100		
53	98.6	76.1	114.1
89	44.2	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

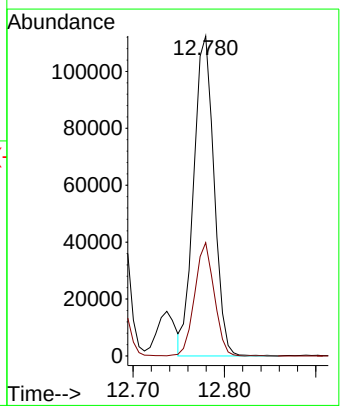
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

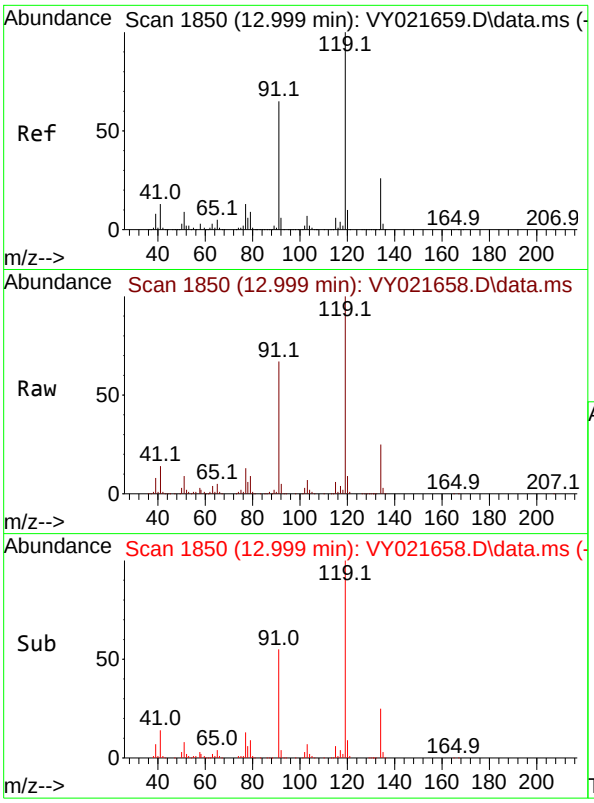


#82
4-Chlorotoluene
Concen: 19.593 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 91 Resp: 173311

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.0	50.9

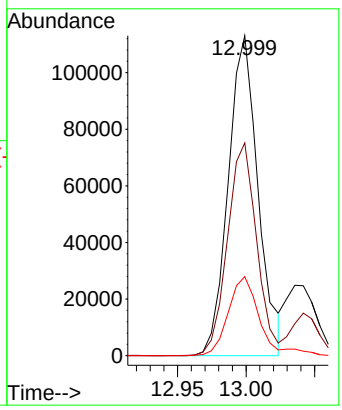




#83
tert-Butylbenzene
Concen: 19.357 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:119 Resp: 17121

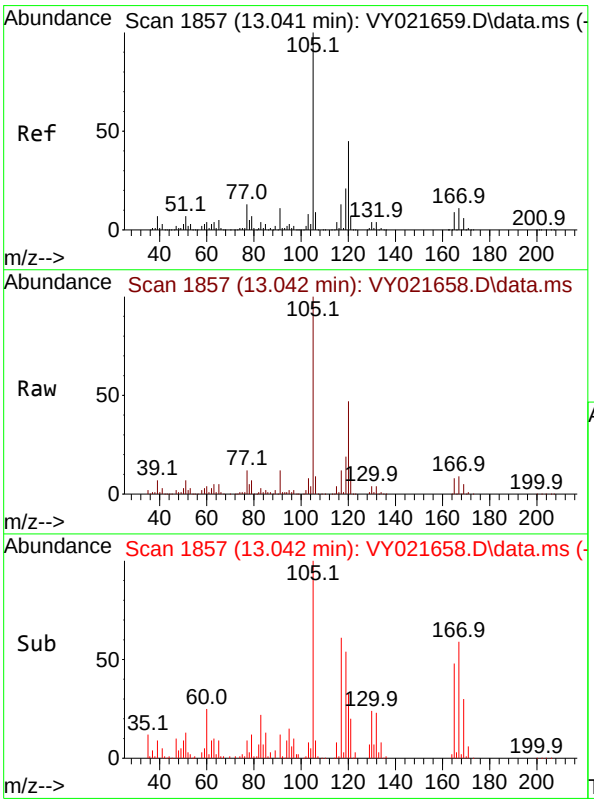
Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.6	97.7
134	26.1	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

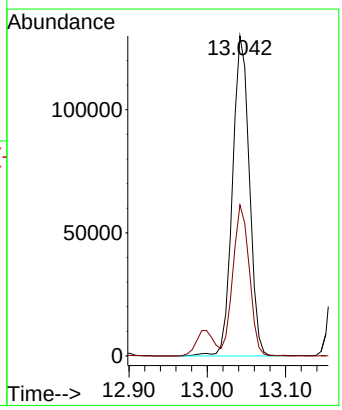
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

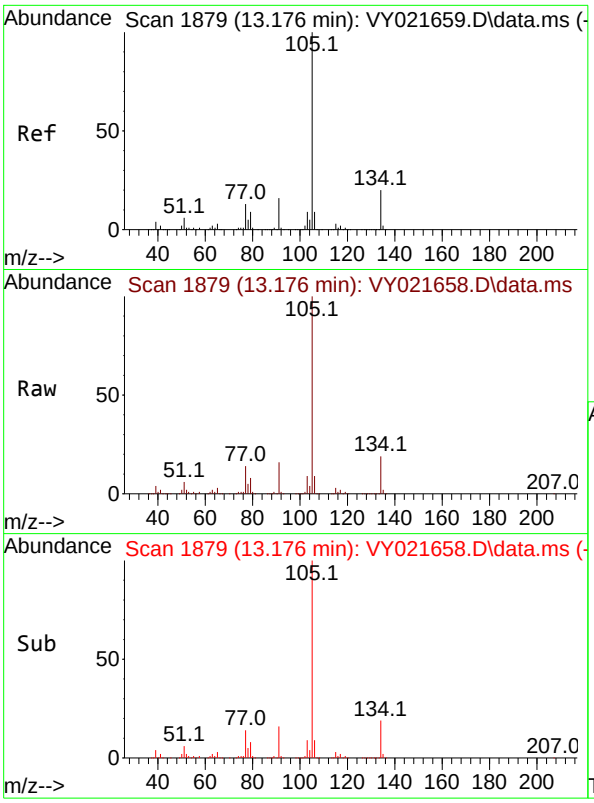


#84
1,2,4-Trimethylbenzene
Concen: 19.734 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:105 Resp: 193683

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.7	68.1

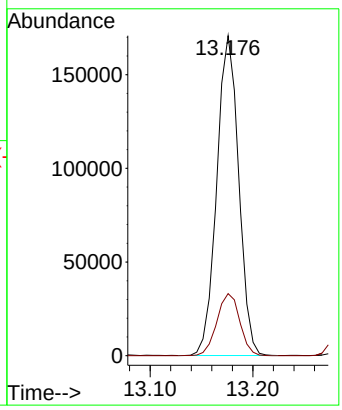




#85
sec-Butylbenzene
Concen: 19.540 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:105 Resp: 25257

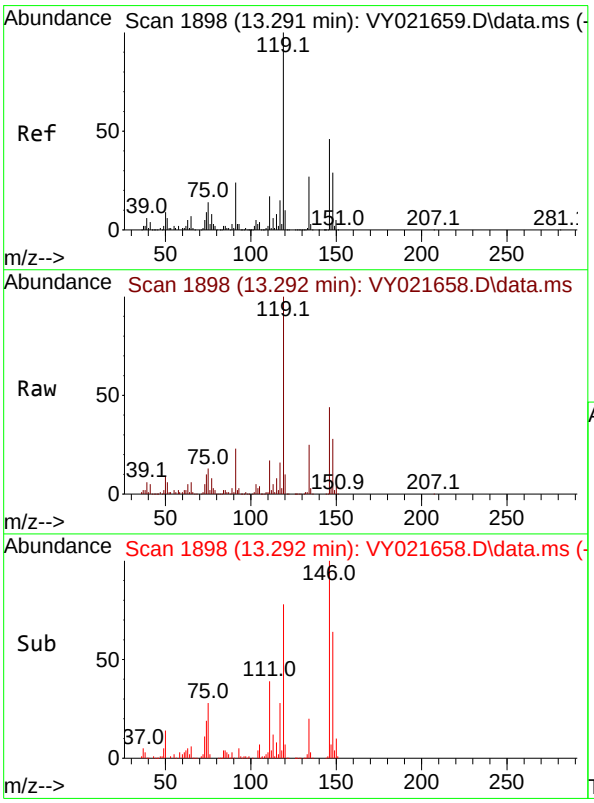
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

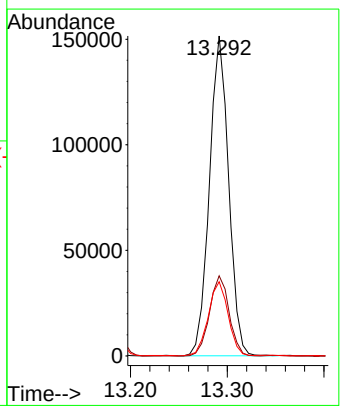
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

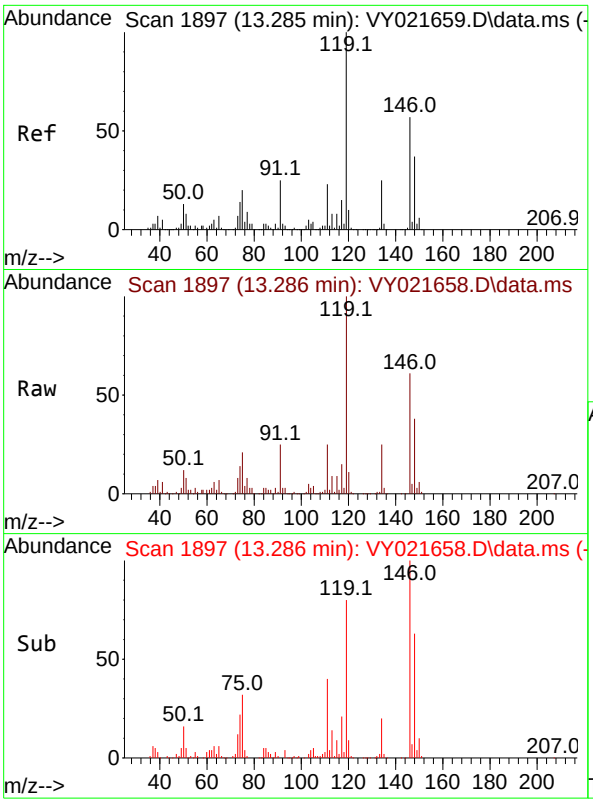


#86
p-Isopropyltoluene
Concen: 19.567 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:119 Resp: 209041

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.2	39.5
91	23.9	12.0	36.0

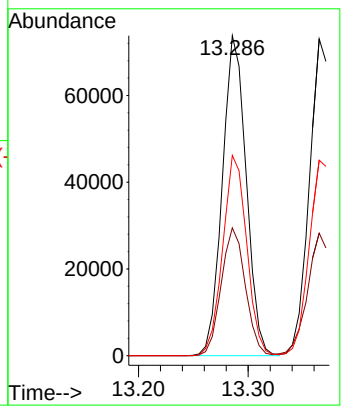




#87
1,3-Dichlorobenzene
Concen: 19.431 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:146 Resp: 11168

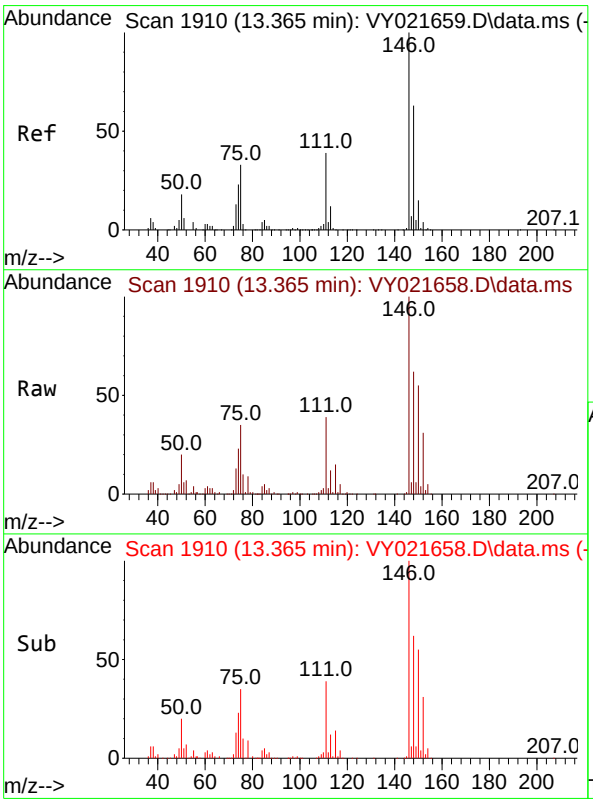
Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.0	60.0
148	63.0	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

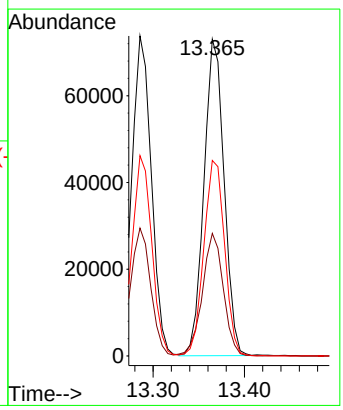
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

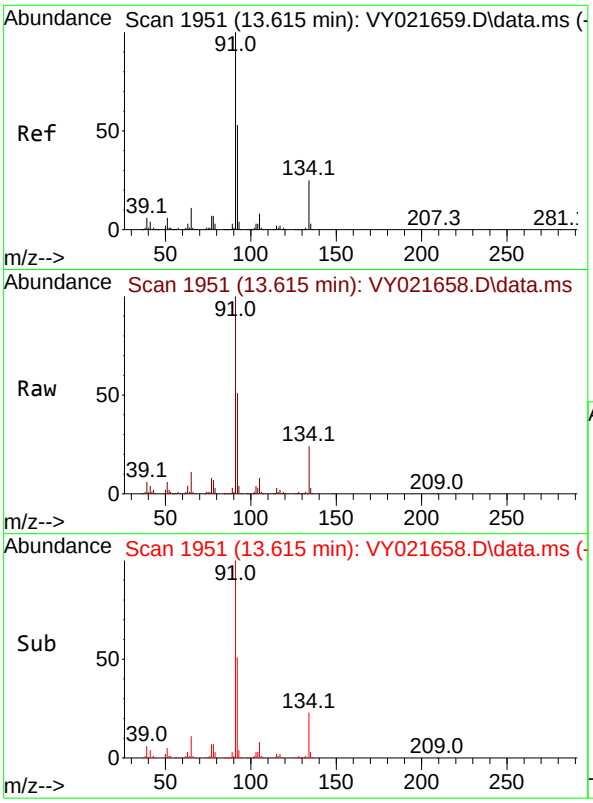


#88
1,4-Dichlorobenzene
Concen: 19.636 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:146 Resp: 111508

Ion	Ratio	Lower	Upper
146	100		
111	40.4	19.1	57.1
148	63.9	31.5	94.5

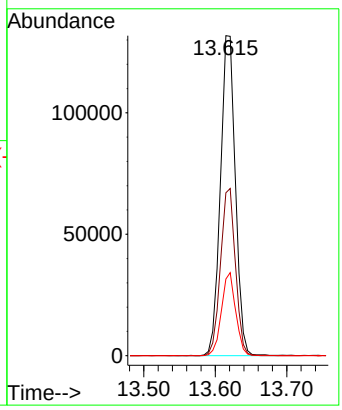




#89
n-Butylbenzene
Concen: 19.416 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 91 Resp: 19183

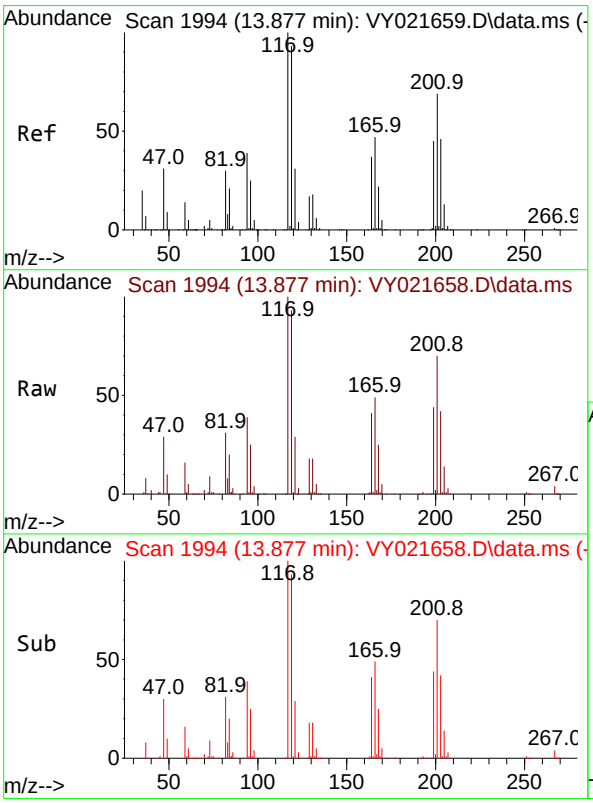
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.4	79.2
134	24.6	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

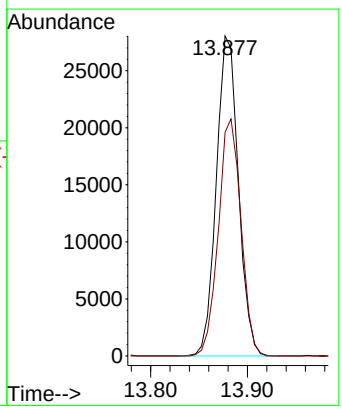
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

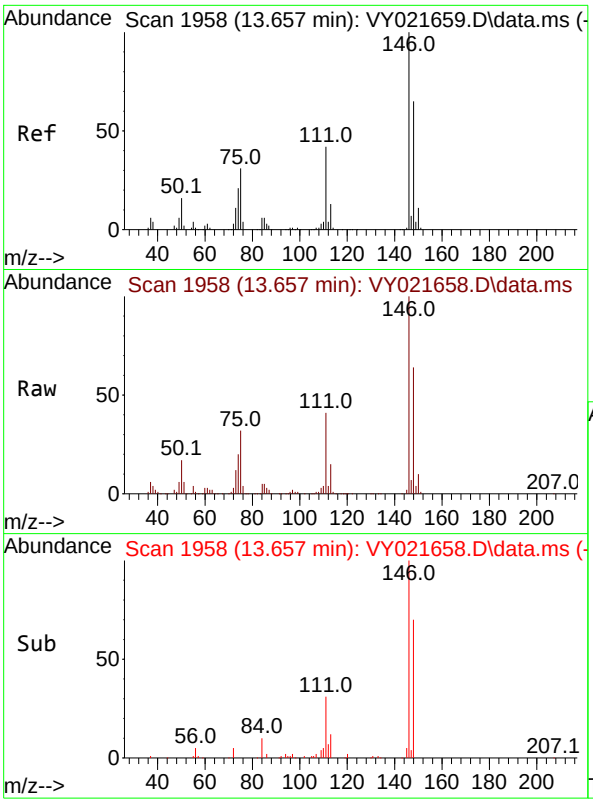


#90
Hexachloroethane
Concen: 18.928 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:117 Resp: 44313

Ion	Ratio	Lower	Upper
117	100		
201	76.0	37.4	112.1

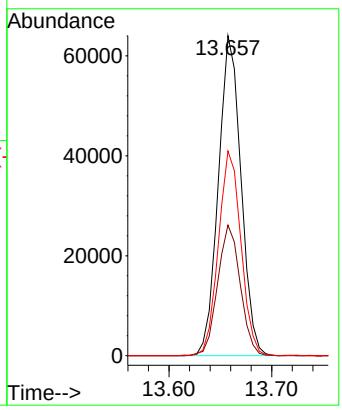




#91
1,2-Dichlorobenzene
Concen: 19.569 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:146 Resp: 9791

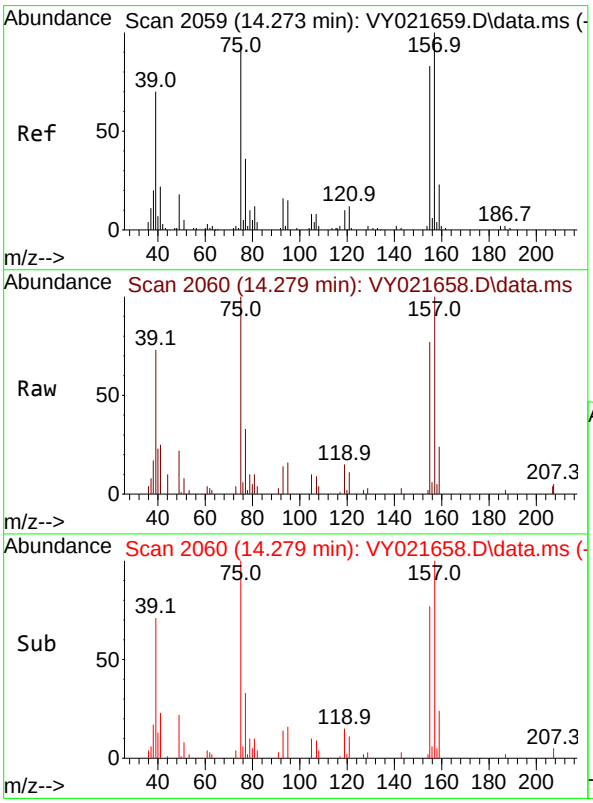
Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.7	62.1
148	63.6	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

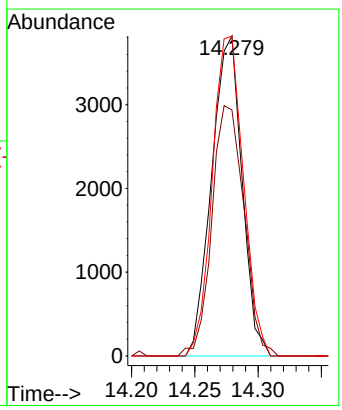
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

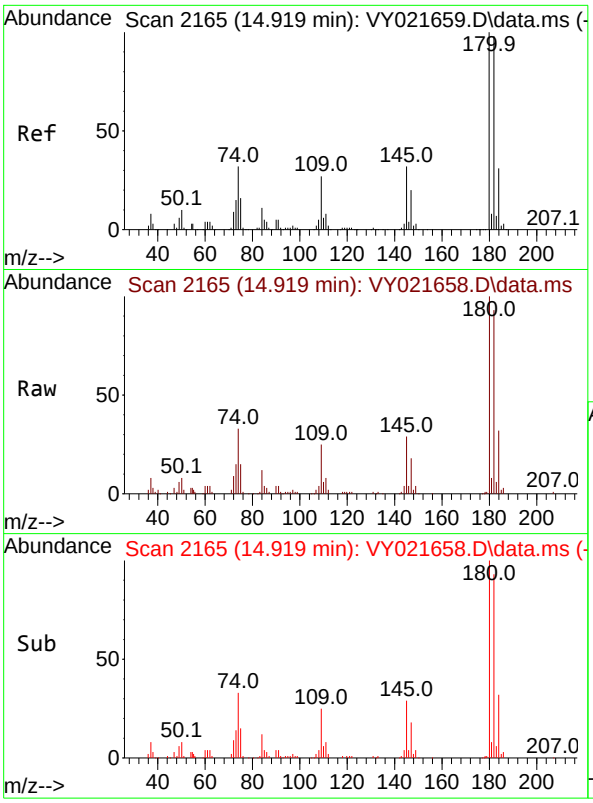


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.811 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion: 75 Resp: 6369

Ion	Ratio	Lower	Upper
75	100		
155	82.7	43.0	128.8
157	102.0	54.0	162.0

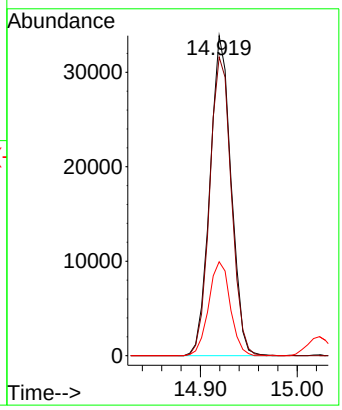




#93
1,2,4-Trichlorobenzene
Concen: 18.971 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:180 Resp: 5147

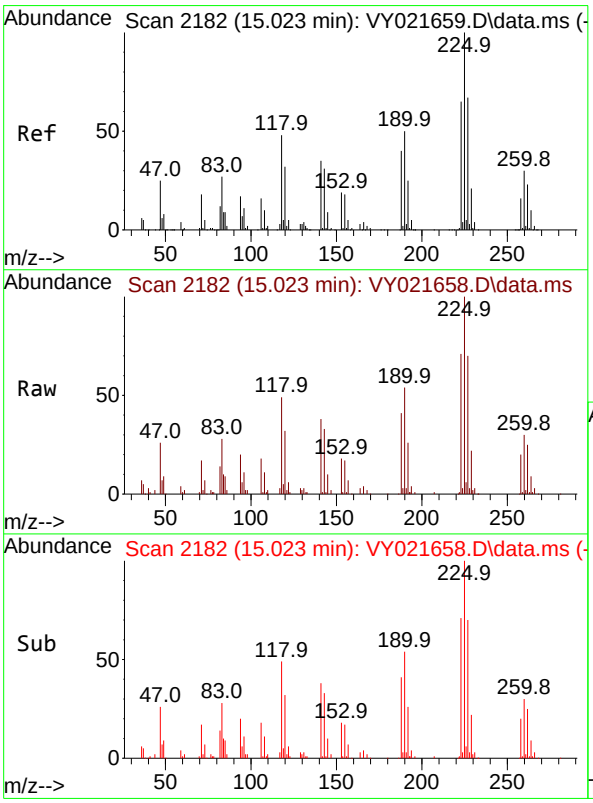
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.5	142.6
145	30.0	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

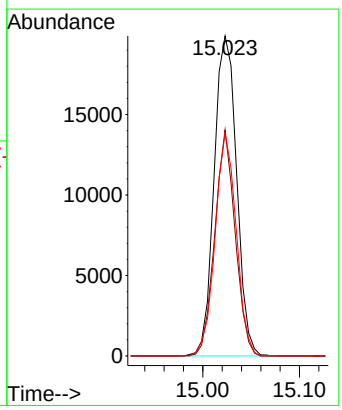
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

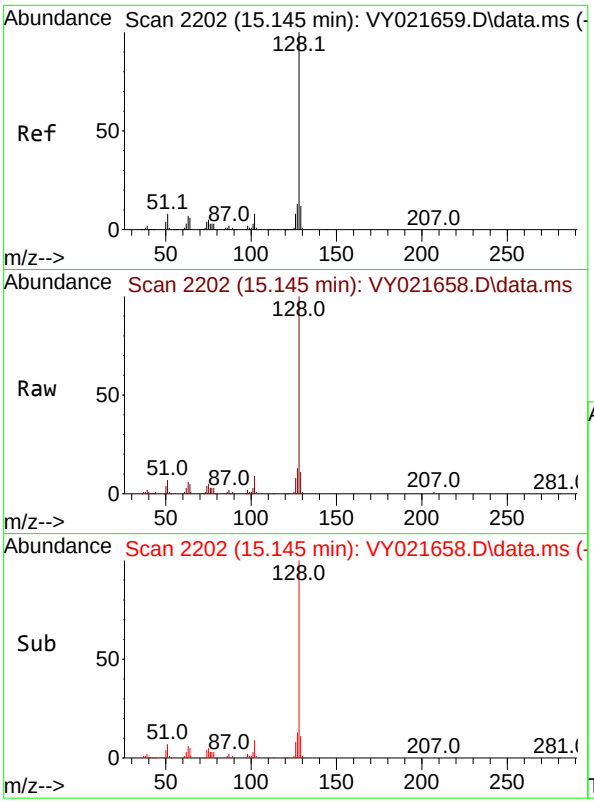


#94
Hexachlorobutadiene
Concen: 18.916 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:225 Resp: 32055

Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.9	95.7
227	65.5	32.4	97.0

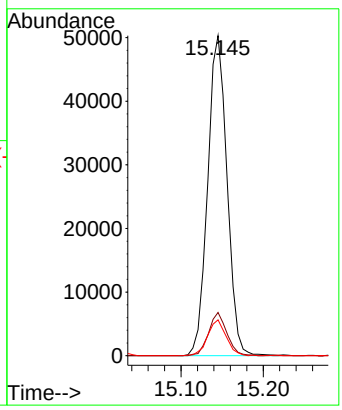




#95
Naphthalene
Concen: 18.305 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:128 Resp: 8232

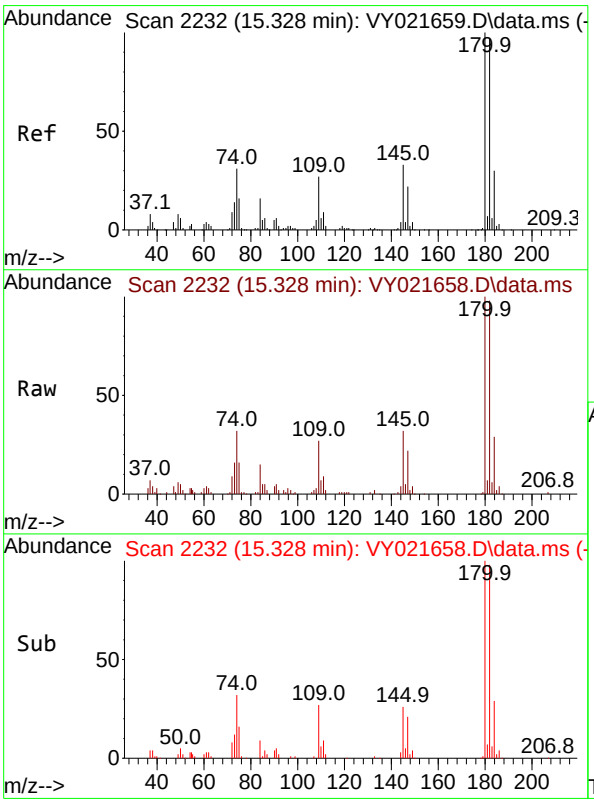
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.8	16.2
129	10.7	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

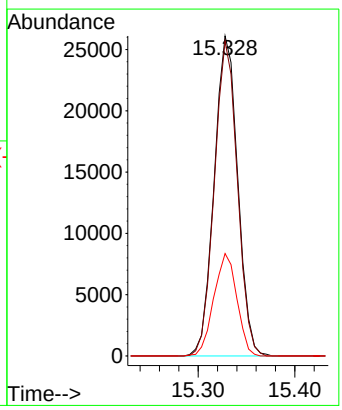
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.037 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021658.D
Acq: 27 Mar 2025 10:54

Tgt Ion:180 Resp: 44047

Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.5	142.5
145	31.3	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021659.D
Acq On : 27 Mar 2025 11:16
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	238234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	369963	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	329626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	167924	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	130485	50.552	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.100%			
35) Dibromofluoromethane	7.634	113	125415	52.259	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.520%			
50) Toluene-d8	10.109	98	483058	52.909	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.820%			
62) 4-Bromofluorobenzene	12.407	95	162384	52.583	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	120589	48.836	ug/l	100
3) Chloromethane	2.068	50	164961	47.510	ug/l	100
4) Vinyl Chloride	2.202	62	190491	48.513	ug/l	100
5) Bromomethane	2.592	94	122288	45.662	ug/l	100
6) Chloroethane	2.732	64	122027	47.492	ug/l	100
7) Trichlorofluoromethane	3.055	101	241339	47.980	ug/l	100
8) Diethyl Ether	3.452	74	65605	47.960	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	127763	48.159	ug/l	100
10) Methyl Iodide	4.007	142	156113	53.639	ug/l	100
11) Tert butyl alcohol	4.860	59	40298	240.362	ug/l	100
12) 1,1-Dichloroethene	3.787	96	122422	48.991	ug/l	100
13) Acrolein	3.647	56	75366	246.189	ug/l	100
14) Allyl chloride	4.385	41	199515	50.077	ug/l	100
15) Acrylonitrile	5.061	53	144175	252.430	ug/l	100
16) Acetone	3.872	43	127702	241.737	ug/l	100
17) Carbon Disulfide	4.104	76	404128	49.101	ug/l	100
18) Methyl Acetate	4.385	43	63249	48.309	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	315679	50.742	ug/l	100
20) Methylene Chloride	4.616	84	134344	52.136	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	135112	49.108	ug/l	100
22) Diisopropyl ether	6.018	45	428881	51.315	ug/l	100
23) Vinyl Acetate	5.957	43	1269853	259.718	ug/l	100
24) 1,1-Dichloroethane	5.915	63	247826	49.589	ug/l	100
25) 2-Butanone	6.896	43	189416	251.037	ug/l	100
26) 2,2-Dichloropropane	6.884	77	219131	49.293	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	155365	50.214	ug/l	100
28) Bromochloromethane	7.244	49	101413	48.116	ug/l	100
29) Tetrahydrofuran	7.262	42	125387	258.206	ug/l	100
30) Chloroform	7.421	83	257511	49.541	ug/l	100
31) Cyclohexane	7.701	56	218689	48.004	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	230441	49.051	ug/l	100
36) 1,1-Dichloropropene	7.835	75	185559	50.763	ug/l	100
37) Ethyl Acetate	6.988	43	87321	50.617	ug/l	100
38) Carbon Tetrachloride	7.823	117	208537	49.810	ug/l	100
39) Methylcyclohexane	9.109	83	229134	52.472	ug/l	100
40) Benzene	8.079	78	554462	50.649	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021659.D
Acq On : 27 Mar 2025 11:16
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 28 02:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	50658m	55.298	ug/l	
42) 1,2-Dichloroethane	8.158	62	155365	50.343	ug/l	100
43) Isopropyl Acetate	8.195	43	166982	51.076	ug/l	100
44) Trichloroethene	8.865	130	138449	49.637	ug/l	100
45) 1,2-Dichloropropane	9.140	63	130586	50.395	ug/l	100
46) Dibromomethane	9.231	93	73435	49.174	ug/l	100
47) Bromodichloromethane	9.420	83	194399	50.237	ug/l	100
48) Methyl methacrylate	9.219	41	77877	51.902	ug/l	100
49) 1,4-Dioxane	9.225	88	16481	1030.192	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	445564	261.893	ug/l	100
52) Toluene	10.170	92	351715	51.496	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	179747	52.296	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	209143	51.579	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	96578	50.254	ug/l	100
56) Ethyl methacrylate	10.438	69	135272	55.124	ug/l	100
57) 1,3-Dichloropropane	10.719	76	170109	51.252	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	332369	277.643	ug/l	100
59) 2-Hexanone	10.761	43	302538	267.012	ug/l	100
60) Dibromochloromethane	10.908	129	134696	51.334	ug/l	100
61) 1,2-Dibromoethane	11.017	107	93866	52.067	ug/l	100
64) Tetrachloroethene	10.646	164	147971	49.288	ug/l	100
65) Chlorobenzene	11.444	112	380661	50.378	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	135660	50.602	ug/l	100
67) Ethyl Benzene	11.517	91	676205	52.188	ug/l	100
68) m/p-Xylenes	11.627	106	519154	104.634	ug/l	100
69) o-Xylene	11.956	106	243359	53.135	ug/l	100
70) Styrene	11.969	104	406215	53.195	ug/l	100
71) Bromoform	12.133	173	78206	51.140	ug/l	100
73) Isopropylbenzene	12.255	105	642393	51.505	ug/l	100
74) N-amyl acetate	12.072	43	154054	52.630	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	110292	49.185	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	83656m	50.257	ug/l	
77) Bromobenzene	12.529	156	149323	49.864	ug/l	100
78) n-propylbenzene	12.596	91	775252	51.702	ug/l	100
79) 2-Chlorotoluene	12.682	91	444178	51.001	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	528425	51.839	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	37240	51.550	ug/l	100
82) 4-Chlorotoluene	12.779	91	463024	50.995	ug/l	100
83) tert-Butylbenzene	12.999	119	467961	51.541	ug/l	100
84) 1,2,4-Trimethylbenzene	13.041	105	526387	52.248	ug/l	100
85) sec-Butylbenzene	13.176	105	687573	51.820	ug/l	100
86) p-Isopropyltoluene	13.291	119	576012	52.525	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	293534	49.752	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	292315	50.147	ug/l	100
89) n-Butylbenzene	13.615	91	532897	52.544	ug/l	100
90) Hexachloroethane	13.877	117	118708	49.396	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	255877	49.821	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17123	49.268	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	147434	52.935	ug/l	100
94) Hexachlorobutadiene	15.023	225	88090	50.642	ug/l	100
95) Naphthalene	15.145	128	253209	54.848	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	125294	52.754	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021659.D
Acq On : 27 Mar 2025 11:16
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

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

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

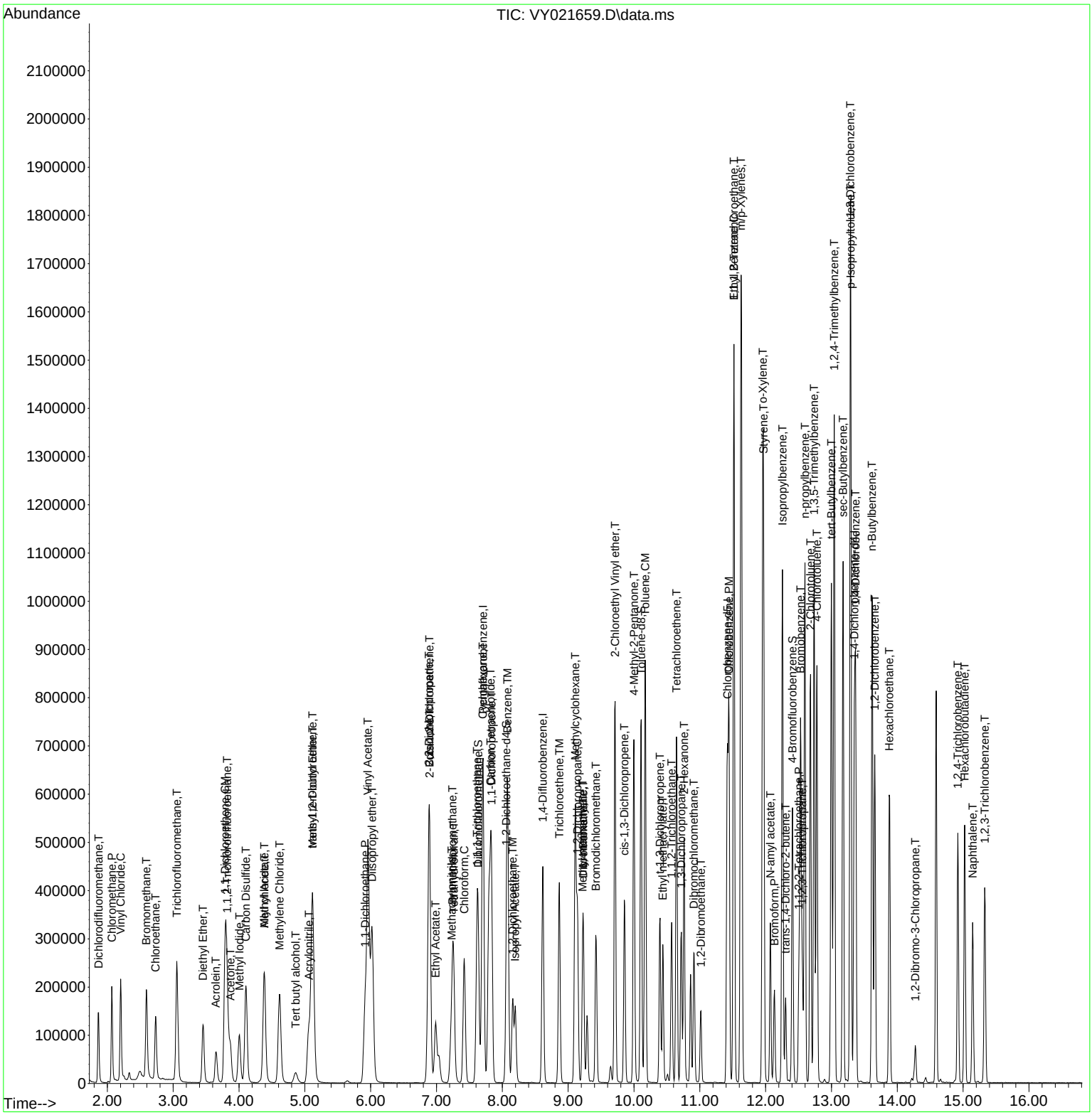
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021659.D
Acq On : 27 Mar 2025 11:16
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

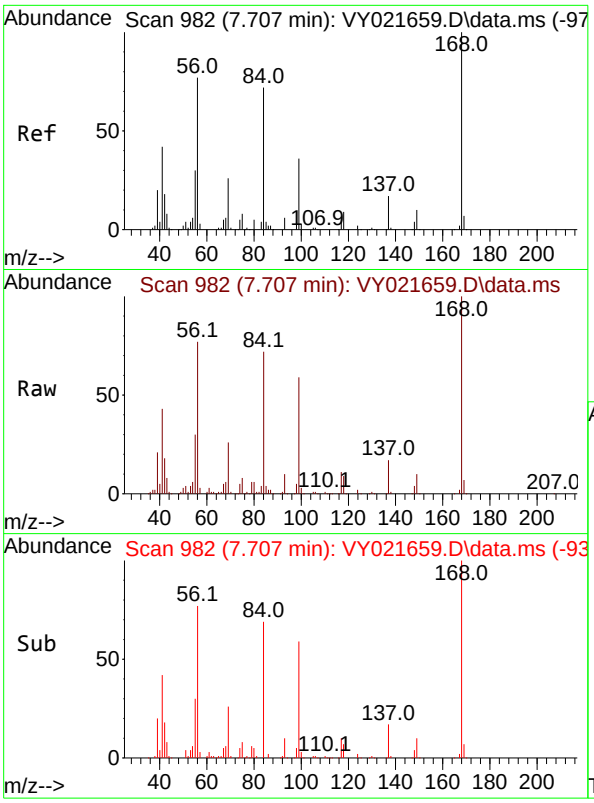
Quant Time: Mar 28 02:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

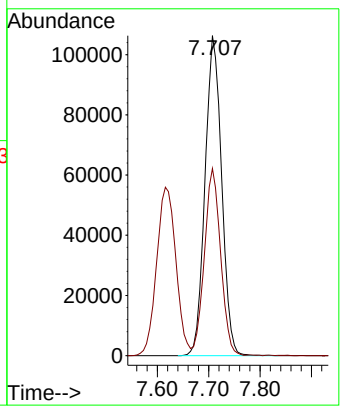




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:168 Resp: 23823

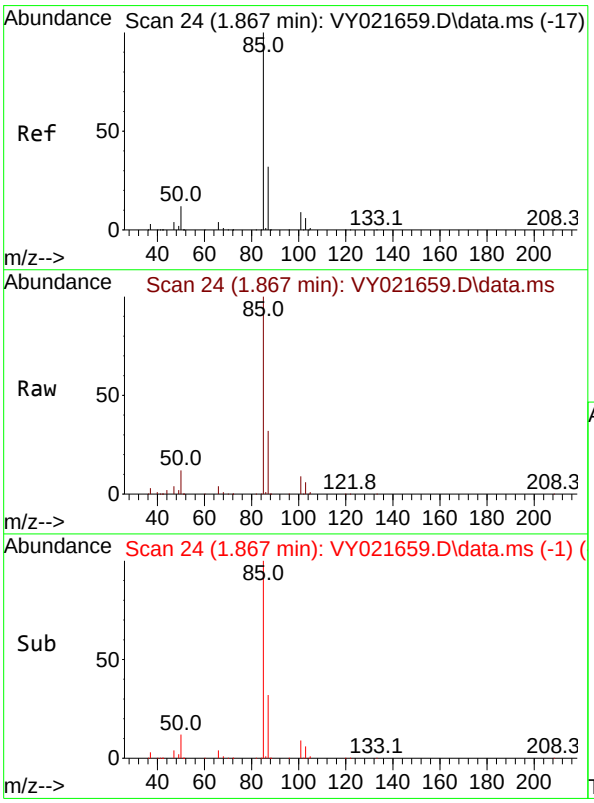
Ion	Ratio	Lower	Upper
168	100		
99	58.4	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

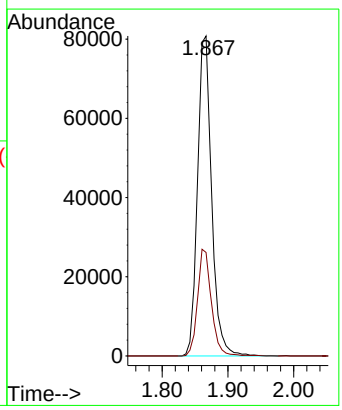
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

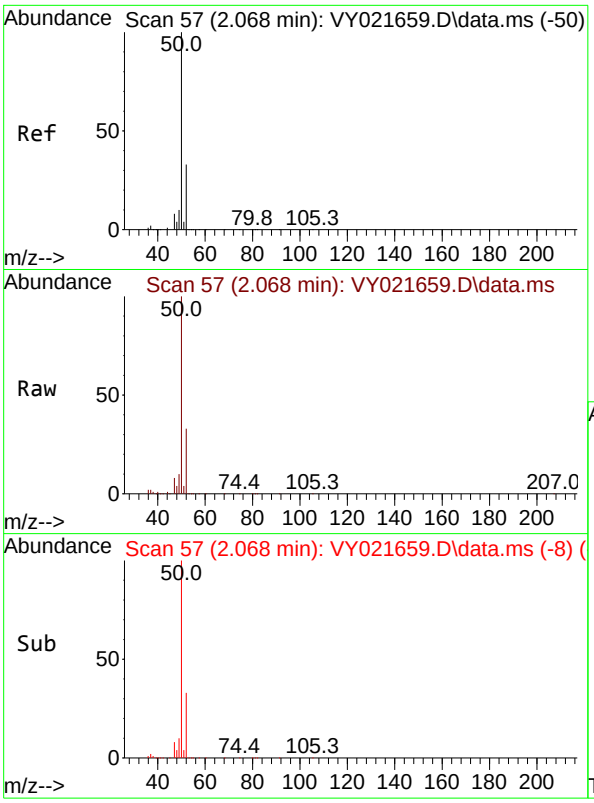


#2
Dichlorodifluoromethane
Concen: 48.836 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 85 Resp: 120589

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6

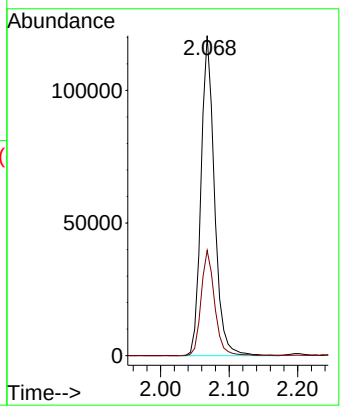




#3
Chloromethane
Concen: 47.510 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 50 Resp: 16496

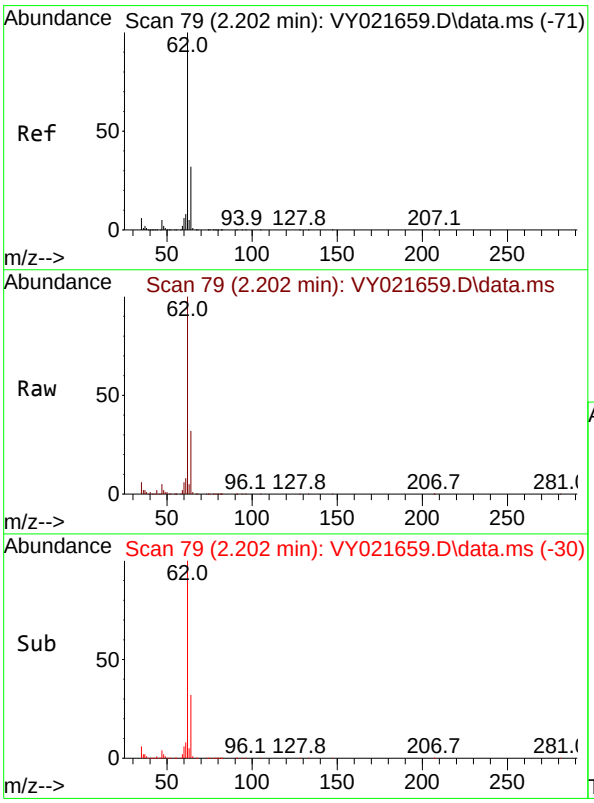
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

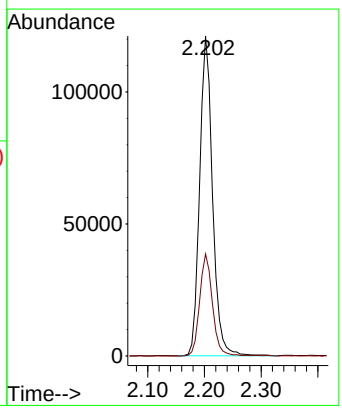
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

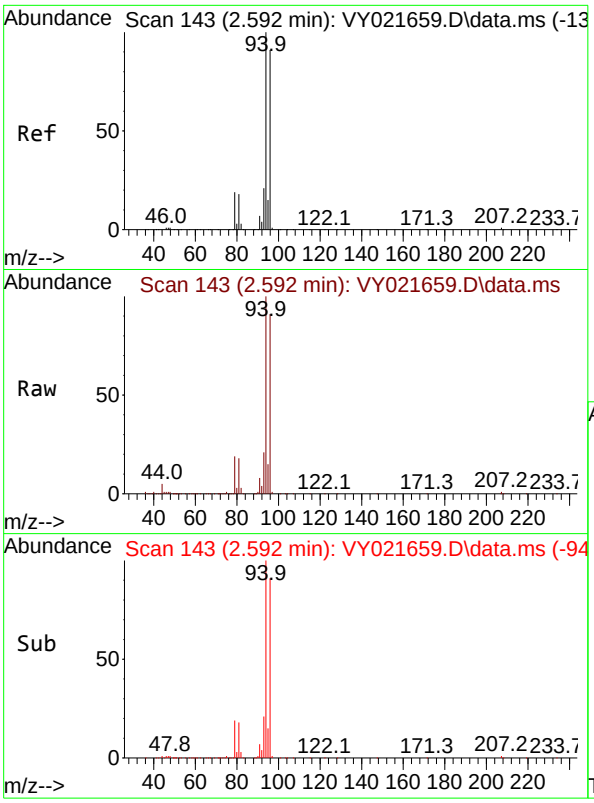


#4
Vinyl Chloride
Concen: 48.513 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 62 Resp: 190491

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.5	38.3

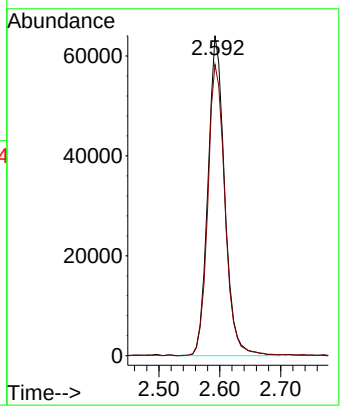




#5
Bromomethane
Concen: 45.662 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 94 Resp: 12228

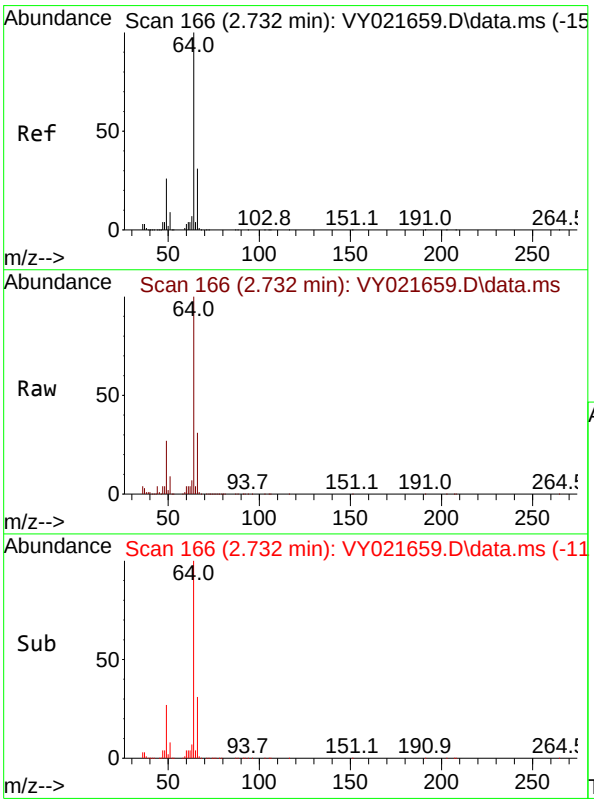
Ion	Ratio	Lower	Upper
94	100		
96	91.0	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

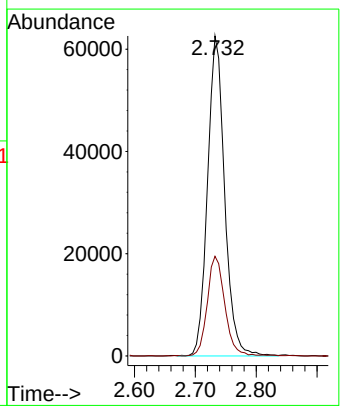
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

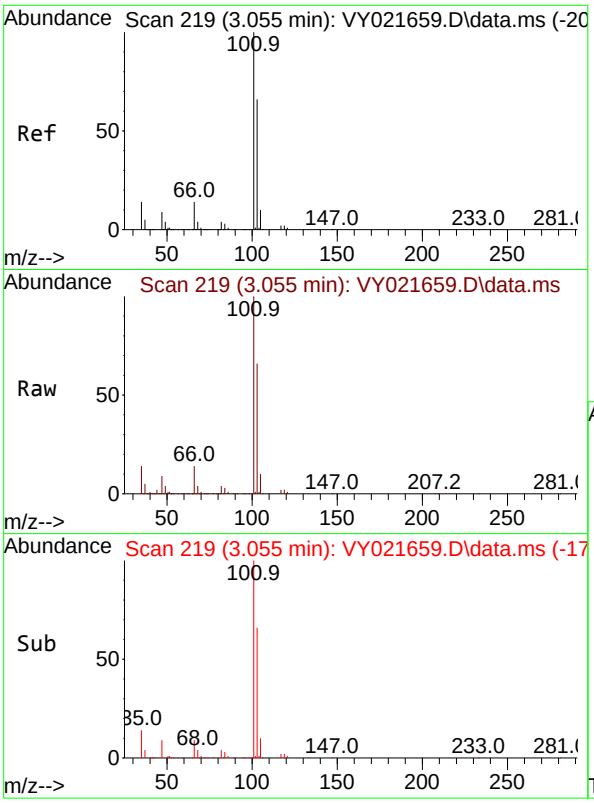


#6
Chloroethane
Concen: 47.492 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 64 Resp: 122027

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.9	37.3

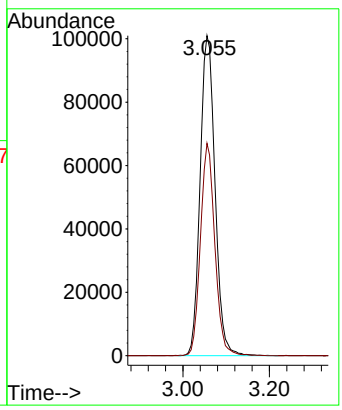




#7
Trichlorofluoromethane
Concen: 47.980 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:101 Resp: 24133

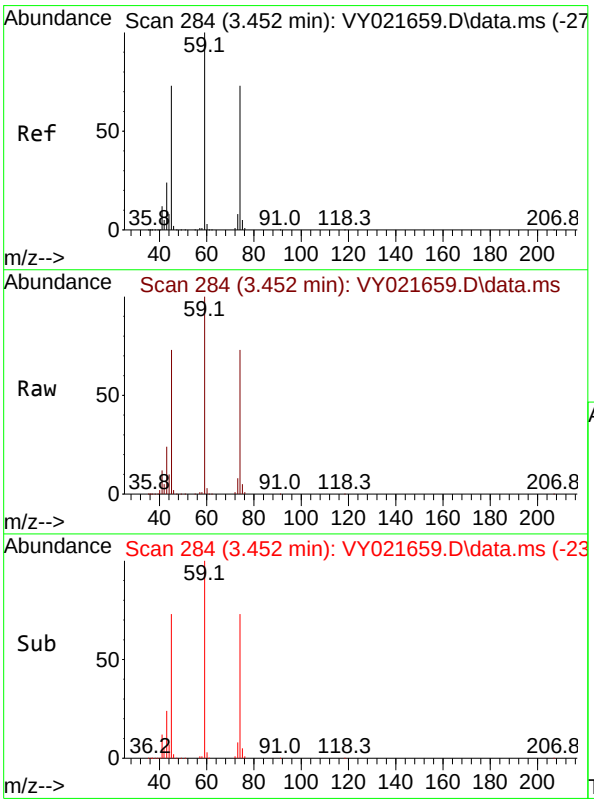
Ion	Ratio	Lower	Upper
101	100		
103	66.4	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

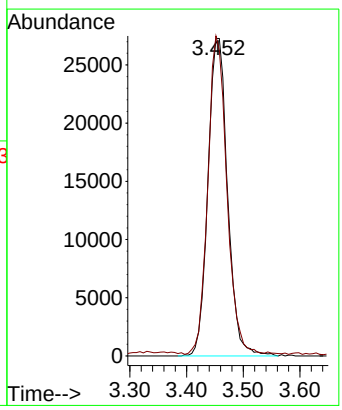
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

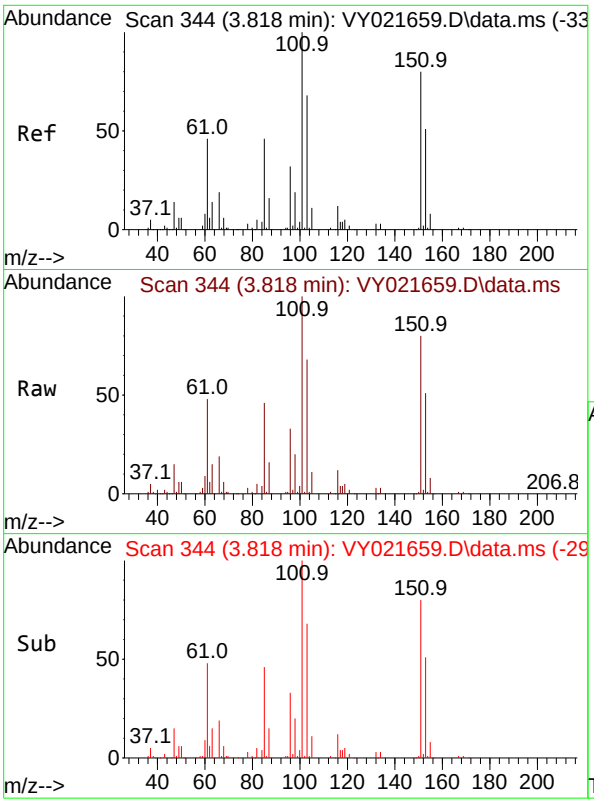


#8
Diethyl Ether
Concen: 47.960 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 74 Resp: 65605

Ion	Ratio	Lower	Upper
74	100		
45	97.2	48.6	145.8

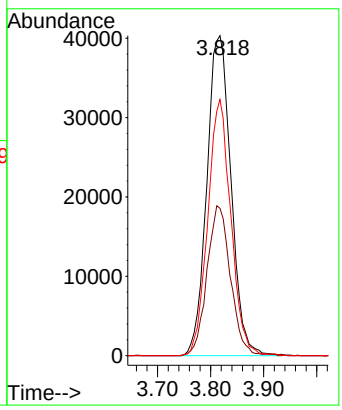




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.159 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:101 Resp: 12776

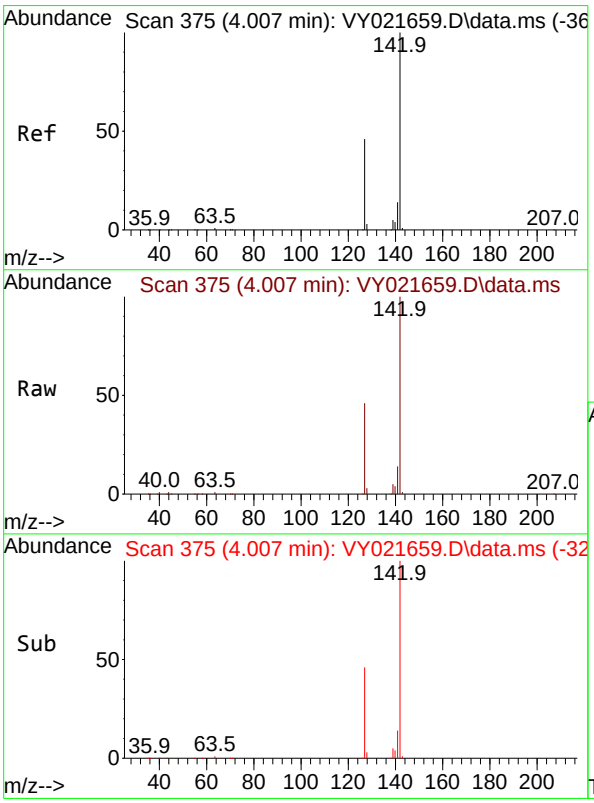
Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.3	54.5
151	76.6	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

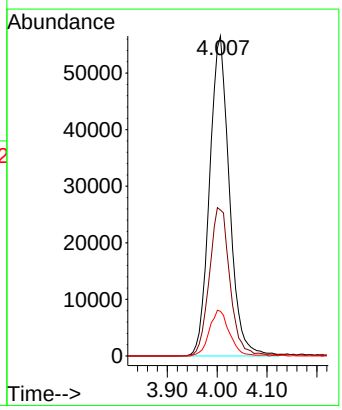
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

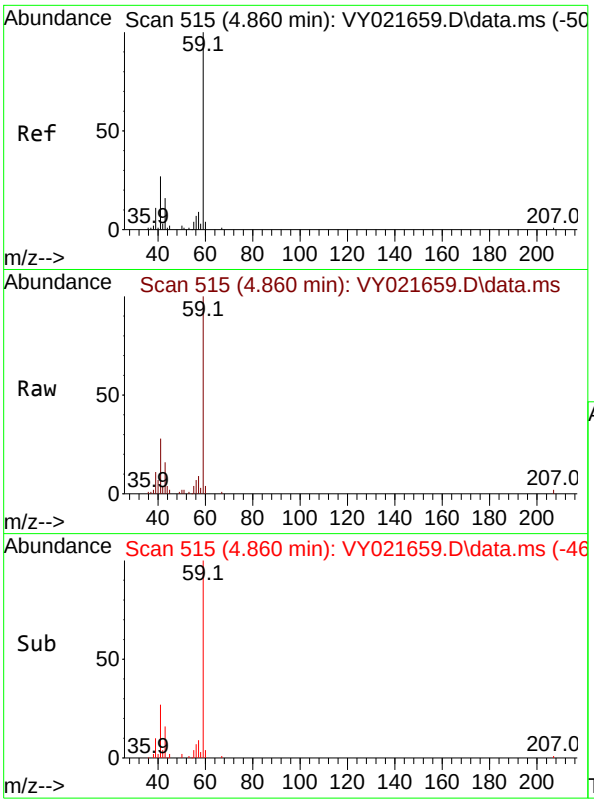


#10
Methyl Iodide
Concen: 53.639 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:142 Resp: 156113

Ion	Ratio	Lower	Upper
142	100		
127	48.4	38.7	58.1
141	14.4	11.5	17.3

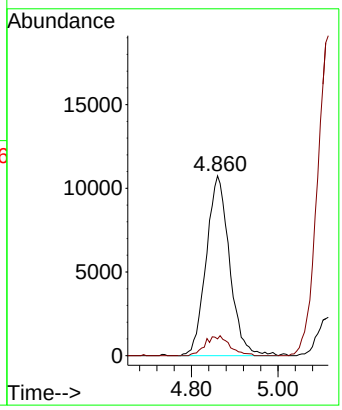




#11
Tert butyl alcohol
Concen: 240.362 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 59 Resp: 4029

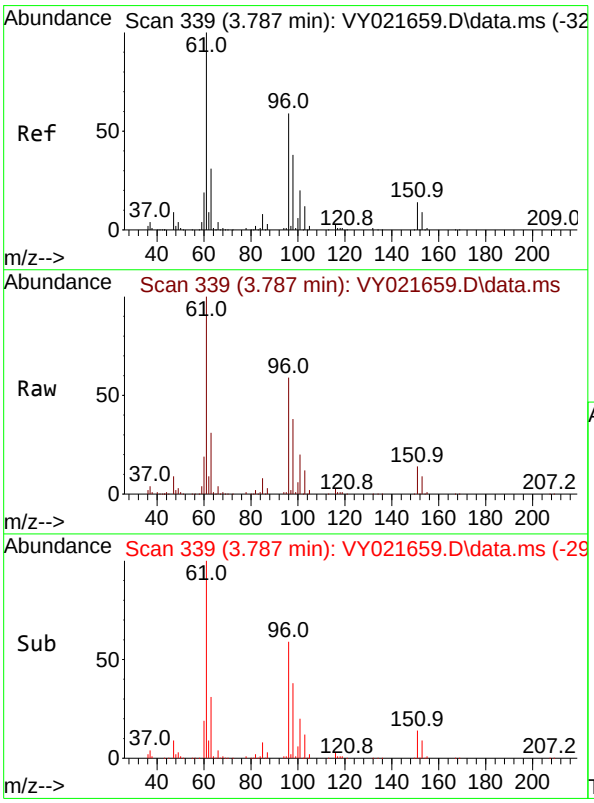
Ion	Ratio	Lower	Upper
59	100		
57	11.5	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

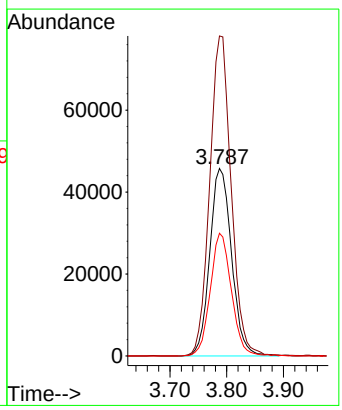
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

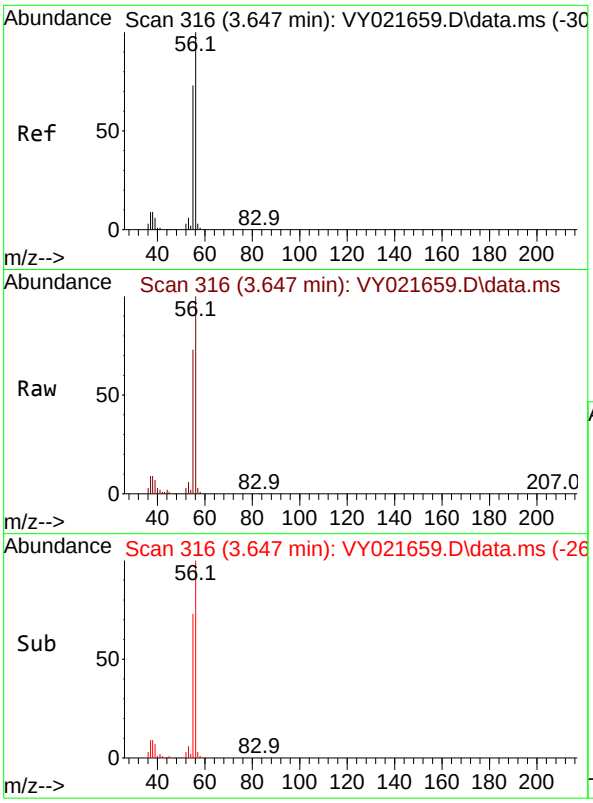


#12
1,1-Dichloroethene
Concen: 48.991 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 96 Resp: 122422

Ion	Ratio	Lower	Upper
96	100		
61	170.7	136.6	204.8
98	65.4	52.3	78.5

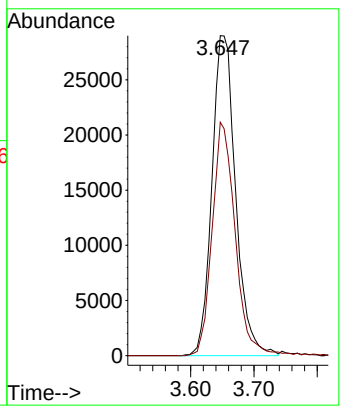




#13
Acrolein
Concen: 246.189 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 56 Resp: 7536

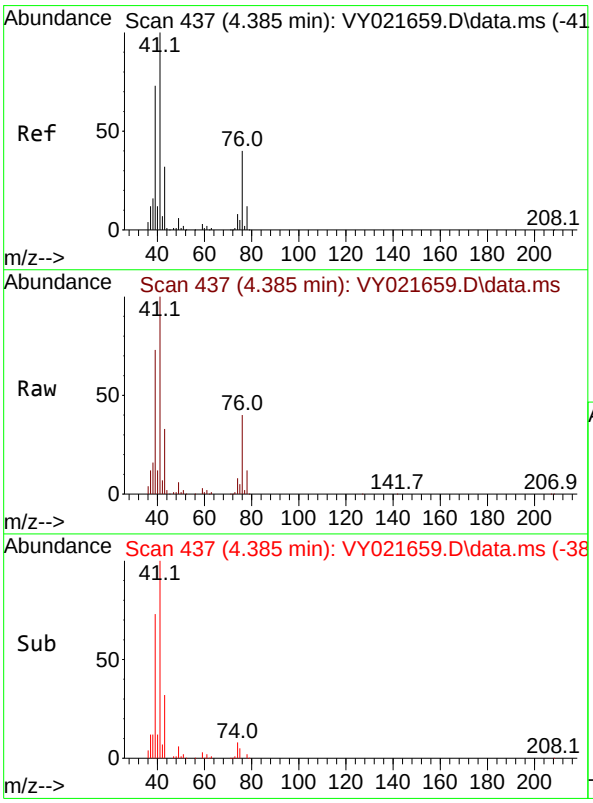
Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

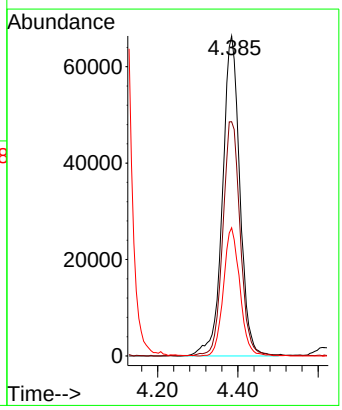
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

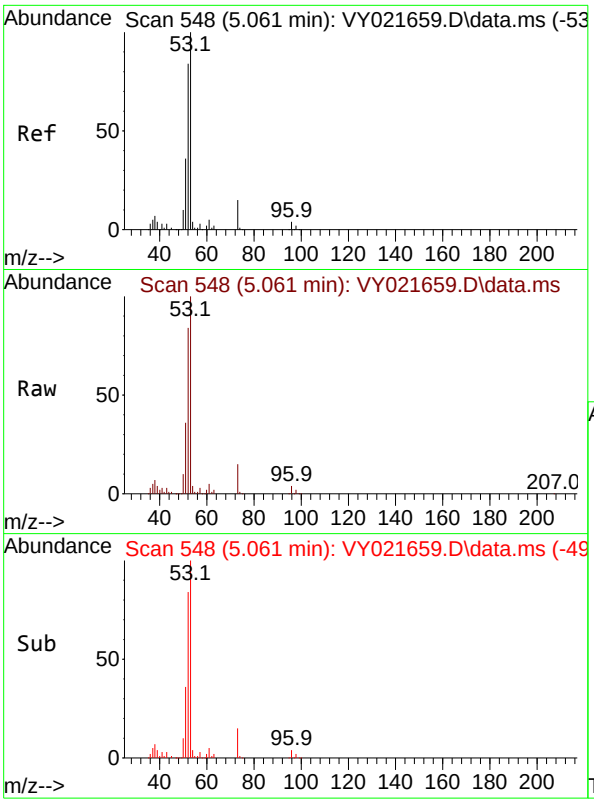


#14
Allyl chloride
Concen: 50.077 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 41 Resp: 199515

Ion	Ratio	Lower	Upper
41	100		
39	73.3	58.6	88.0
76	37.9	30.3	45.5





#15
Acrylonitrile
Concen: 252.430 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

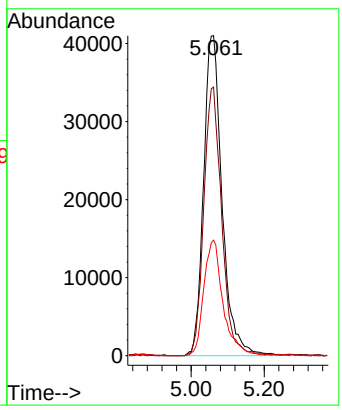
Tgt Ion: 53 Resp: 14417

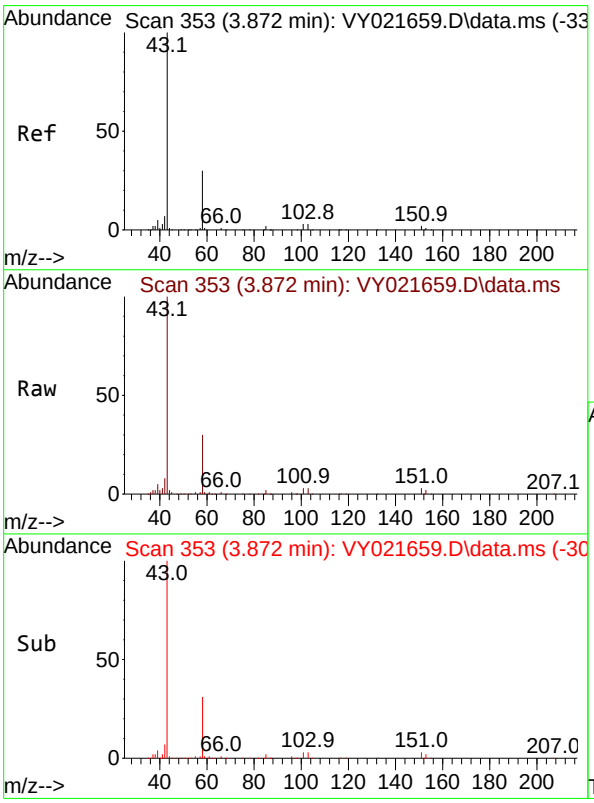
Ion	Ratio	Lower	Upper
53	100		
52	81.1	64.9	97.3
51	37.7	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

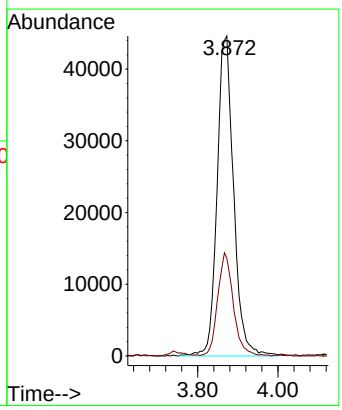


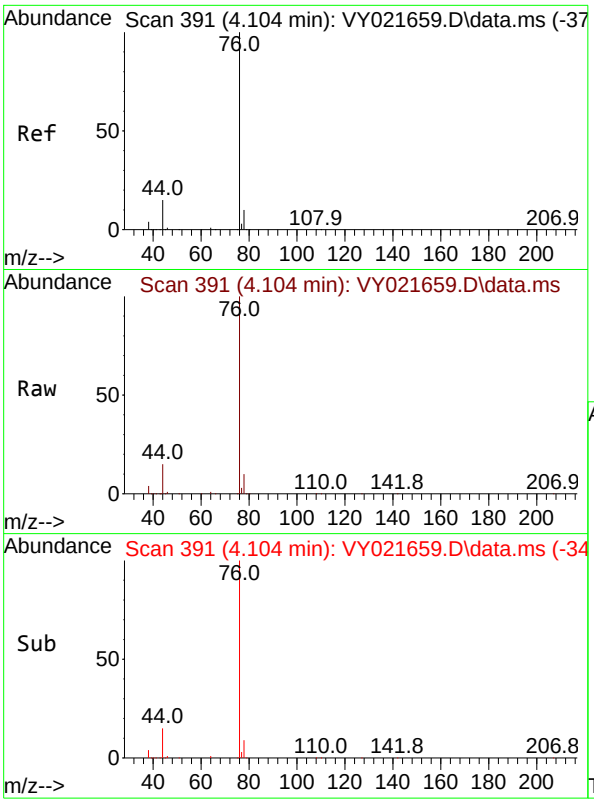


#16
Acetone
Concen: 241.737 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 127702

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4





#17
Carbon Disulfide
Concen: 49.101 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

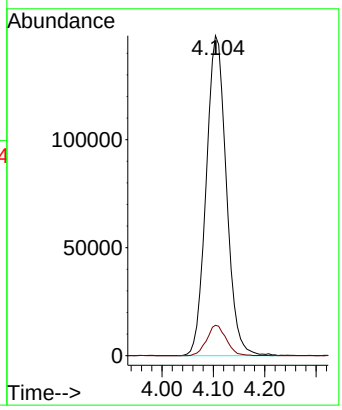
Tgt Ion: 76 Resp: 40412

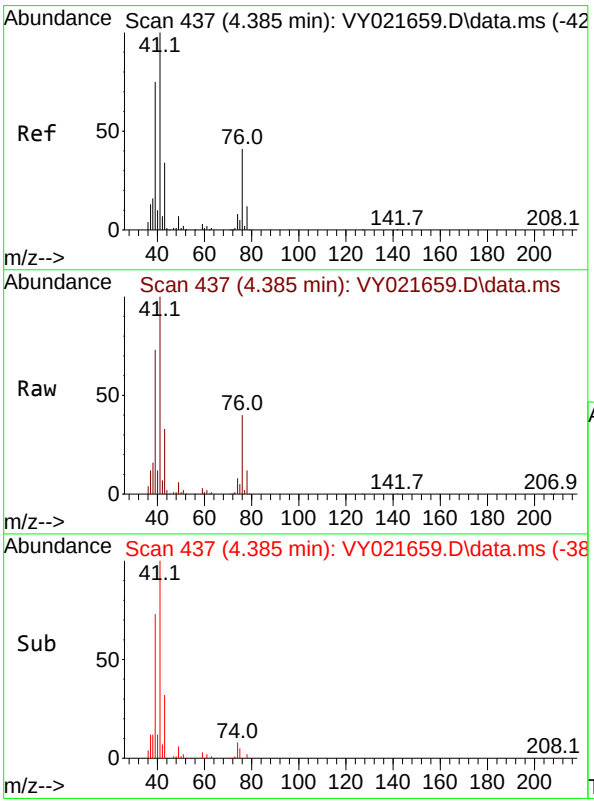
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

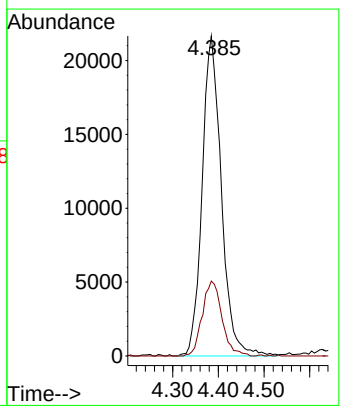


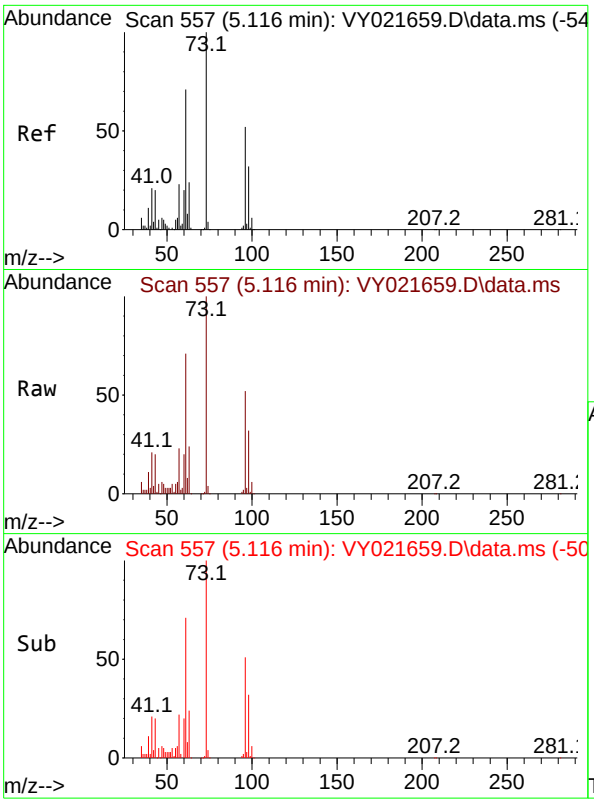


#18
Methyl Acetate
Concen: 48.309 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 63249

Ion	Ratio	Lower	Upper
43	100		
74	23.9	19.1	28.7

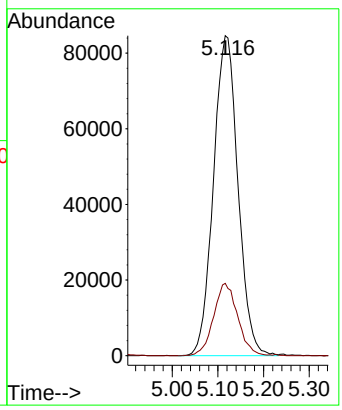




#19
Methyl tert-butyl Ether
Concen: 50.742 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 73 Resp: 31567

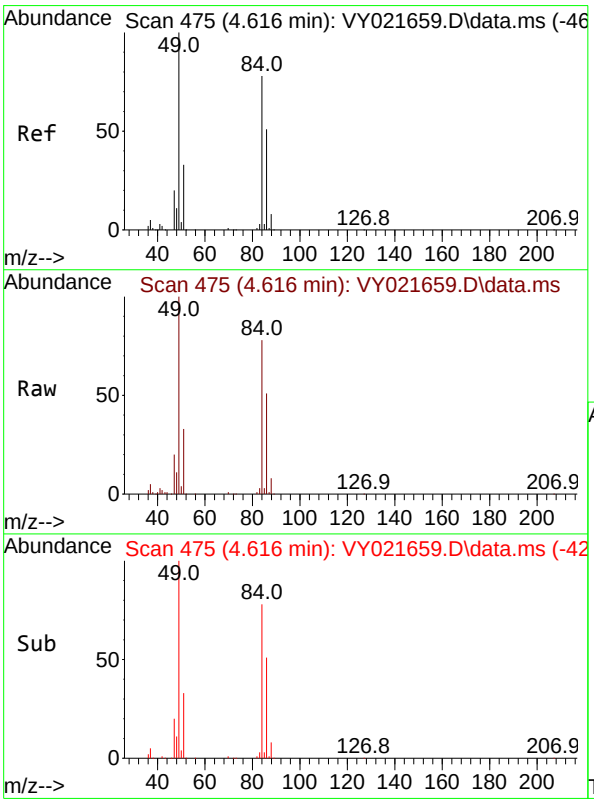
Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

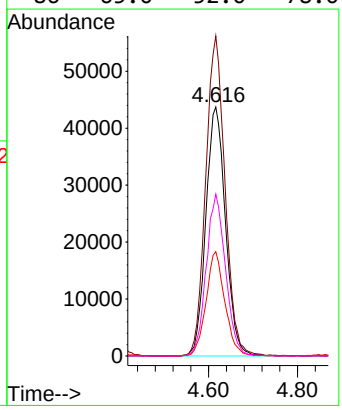
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

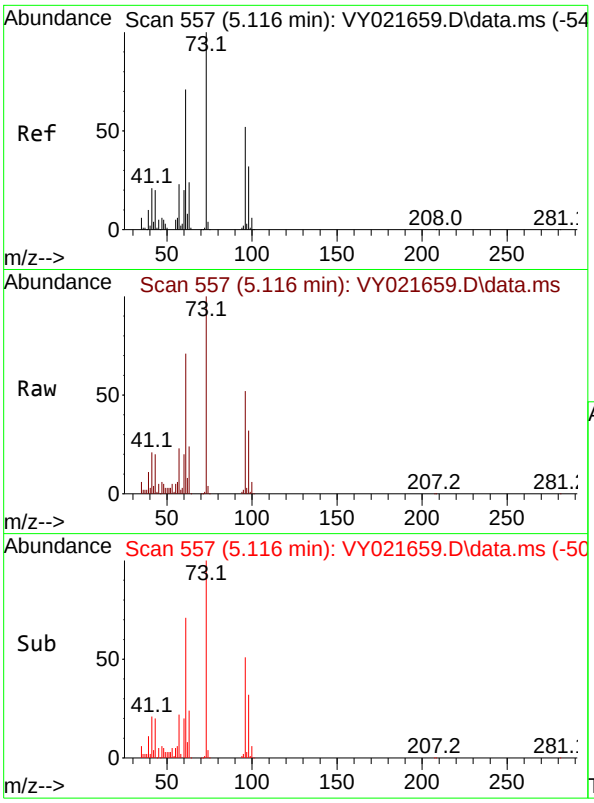


#20
Methylene Chloride
Concen: 52.136 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 84 Resp: 134344

Ion	Ratio	Lower	Upper
84	100		
49	128.5	102.8	154.2
51	41.9	33.5	50.3
86	65.0	52.0	78.0

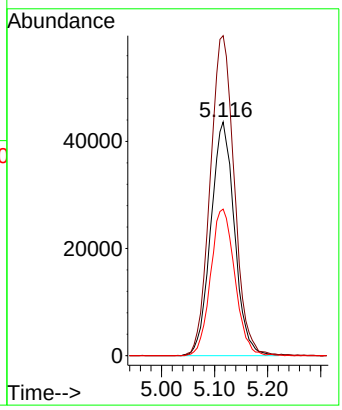




#21
trans-1,2-Dichloroethene
Concen: 49.108 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 96 Resp: 13511

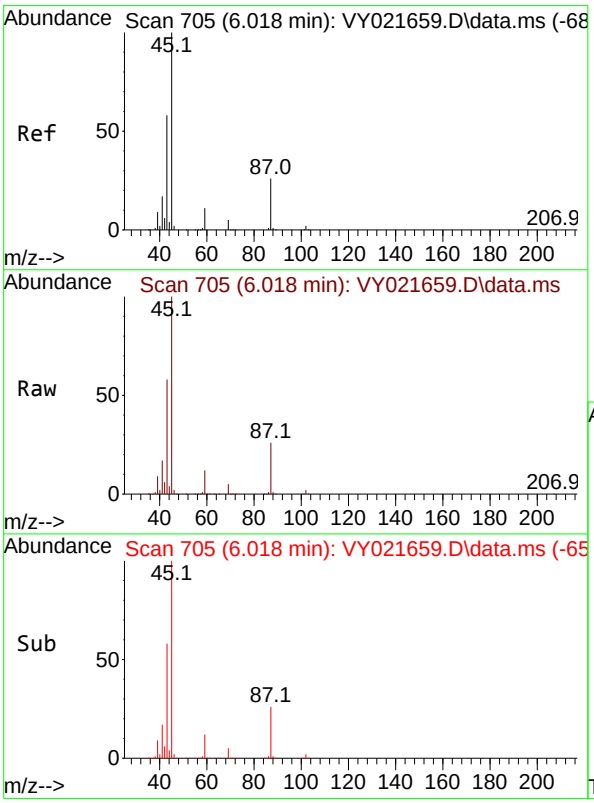
Ion	Ratio	Lower	Upper
96	100		
61	136.7	109.4	164.0
98	62.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

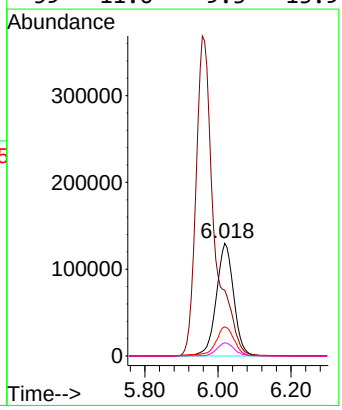
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

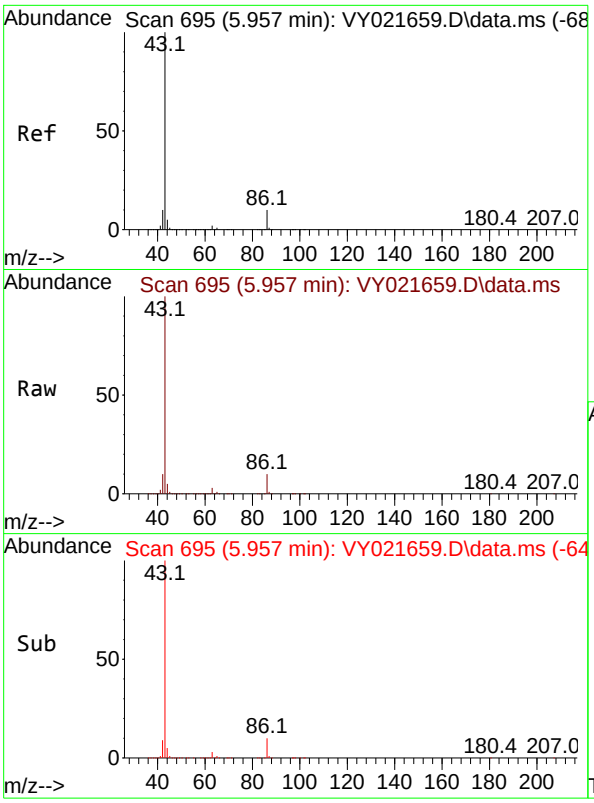


#22
Diisopropyl ether
Concen: 51.315 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 45 Resp: 428881

Ion	Ratio	Lower	Upper
45	100		
43	58.2	46.6	69.8
87	25.9	20.7	31.1
59	11.6	9.3	13.9

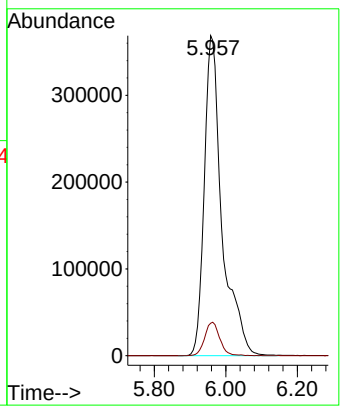




#23
Vinyl Acetate
Concen: 259.718 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 126985

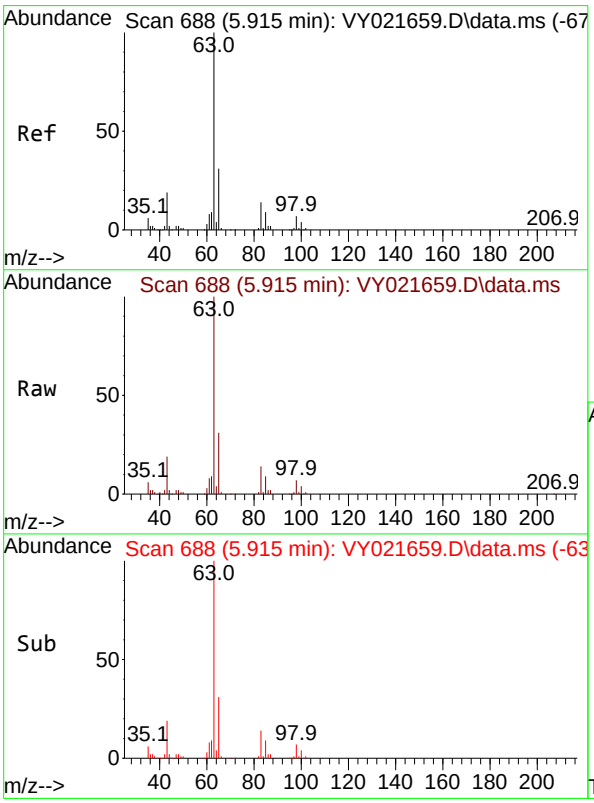
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

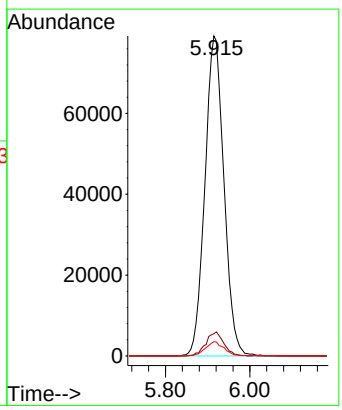
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

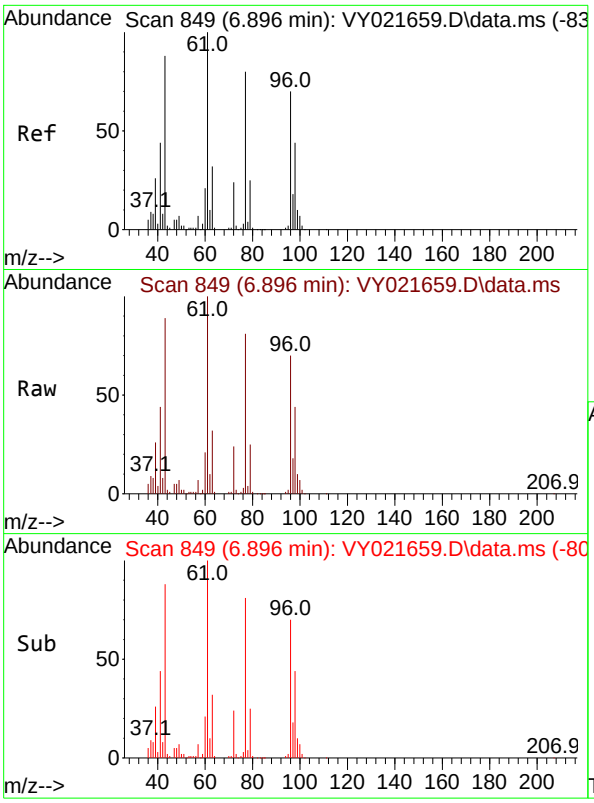


#24
1,1-Dichloroethane
Concen: 49.589 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 63 Resp: 247826

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.4	2.2	6.6

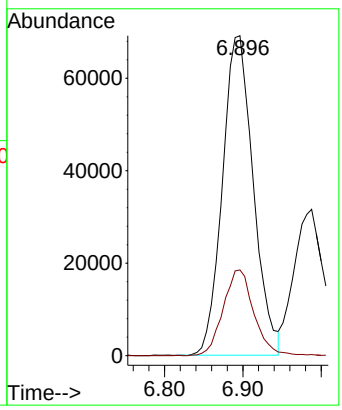




#25
2-Butanone
Concen: 251.037 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 18941

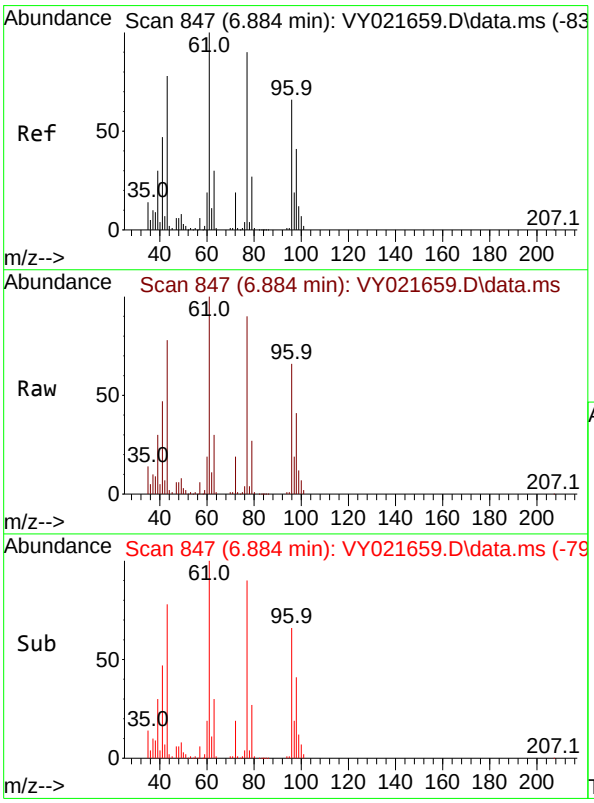
Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.4	32.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

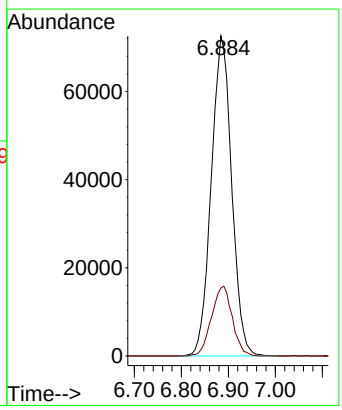
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

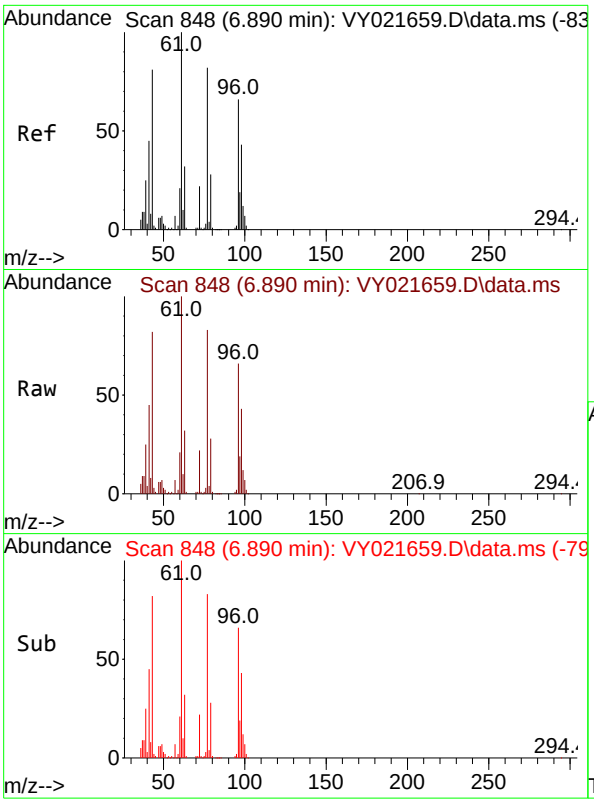


#26
2,2-Dichloropropane
Concen: 49.293 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 77 Resp: 219131

Ion	Ratio	Lower	Upper
77	100		
97	22.1	11.1	33.1





#27
cis-1,2-Dichloroethene
Concen: 50.214 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

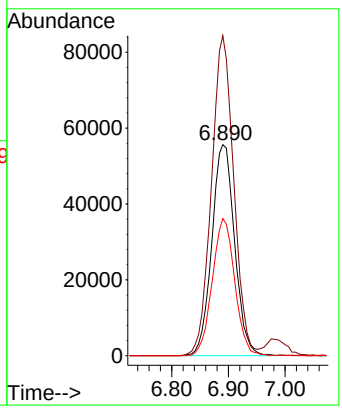
Tgt Ion: 96 Resp: 15536

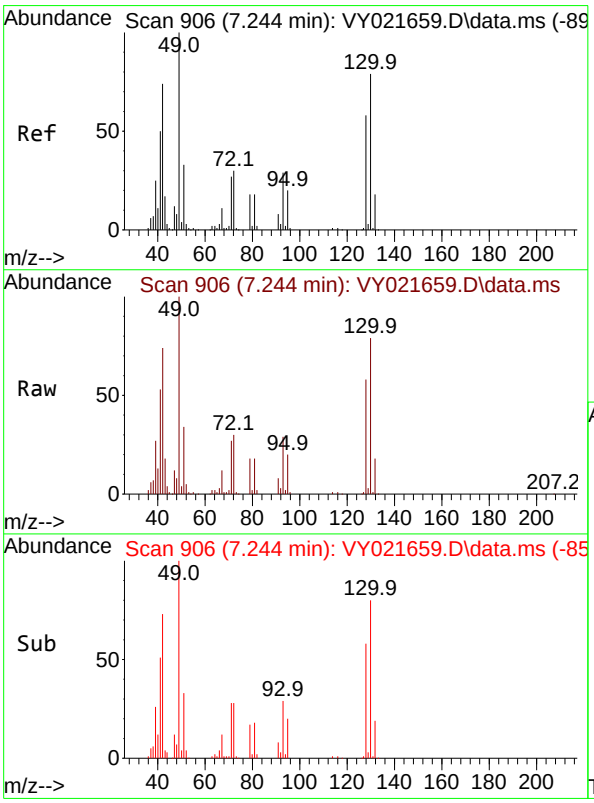
Ion	Ratio	Lower	Upper
96	100		
61	148.2	0.0	296.4
98	64.0	0.0	128.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

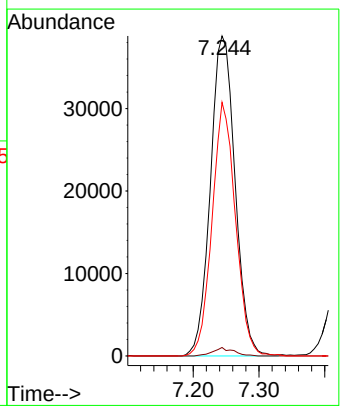


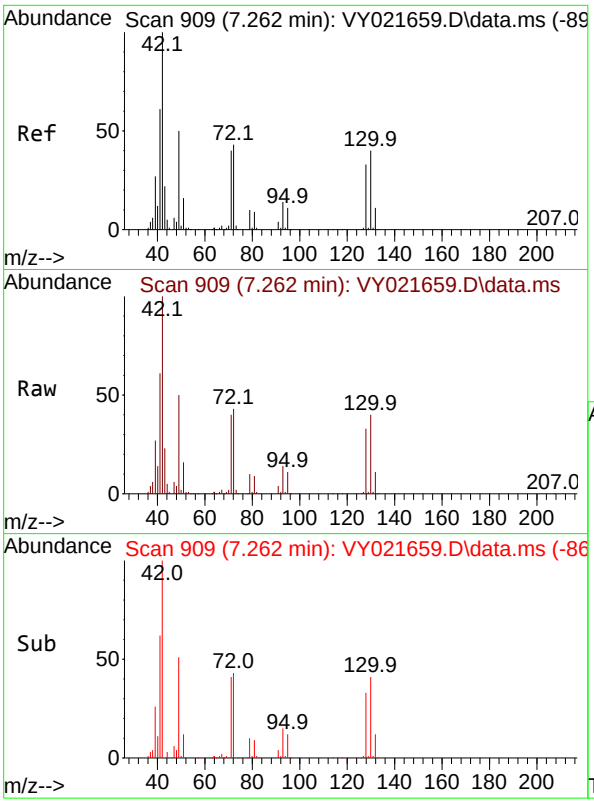


#28
Bromochloromethane
Concen: 48.116 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 49 Resp: 101413

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	75.1	60.1	90.1





#29
Tetrahydrofuran
Concen: 258.206 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

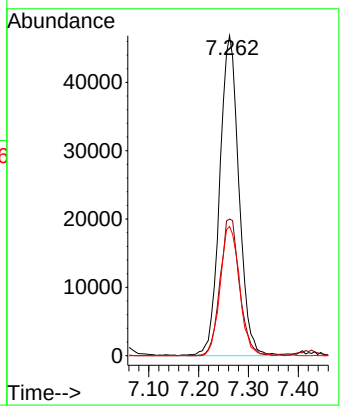
Tgt Ion: 42 Resp: 12538

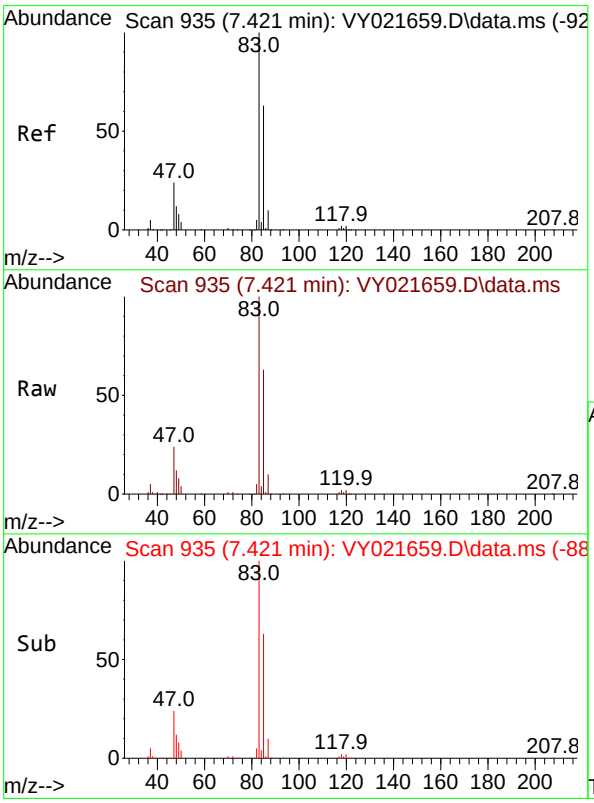
Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.6	52.0
71	40.6	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

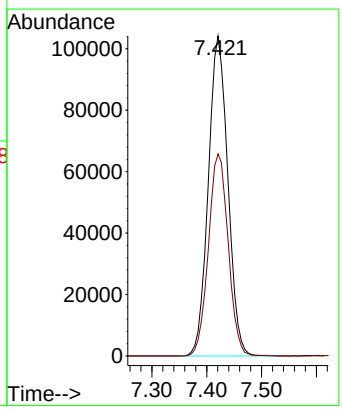


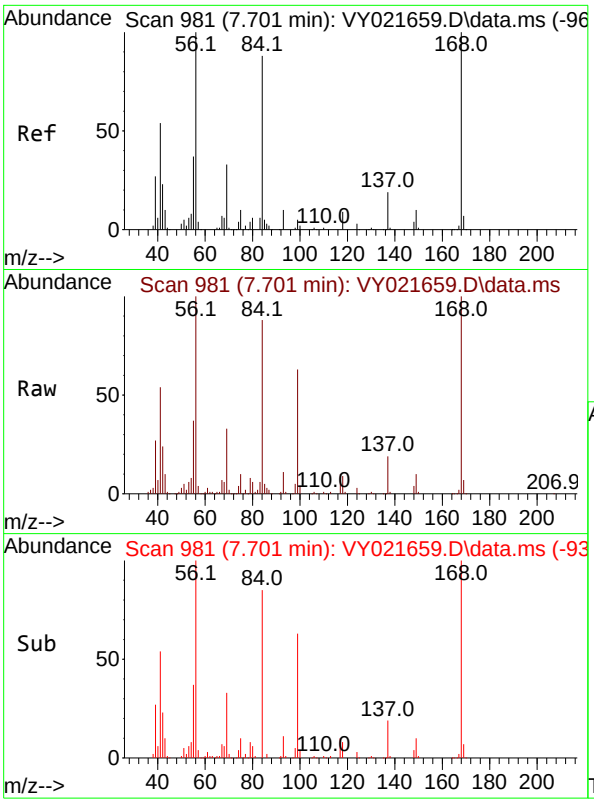


#30
Chloroform
Concen: 49.541 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 83 Resp: 257511

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8

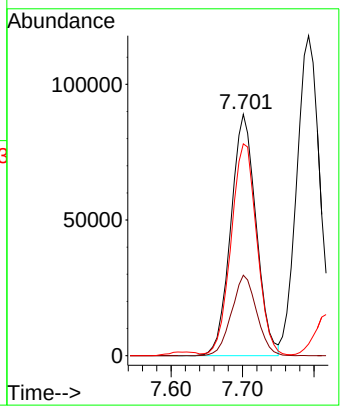




#31
Cyclohexane
Concen: 48.004 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 56 Resp: 21868

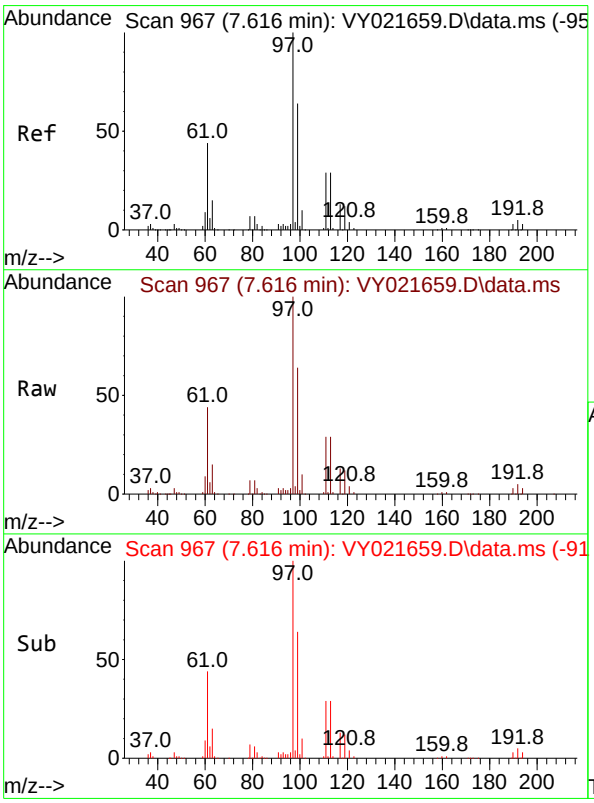
Ion	Ratio	Lower	Upper
56	100		
69	33.3	26.6	40.0
84	86.2	69.0	103.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

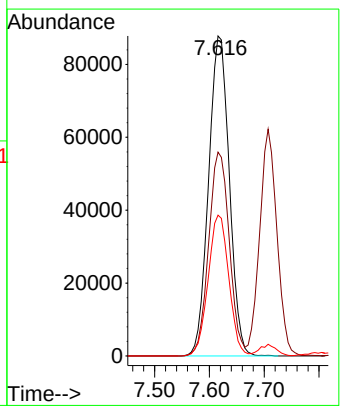
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

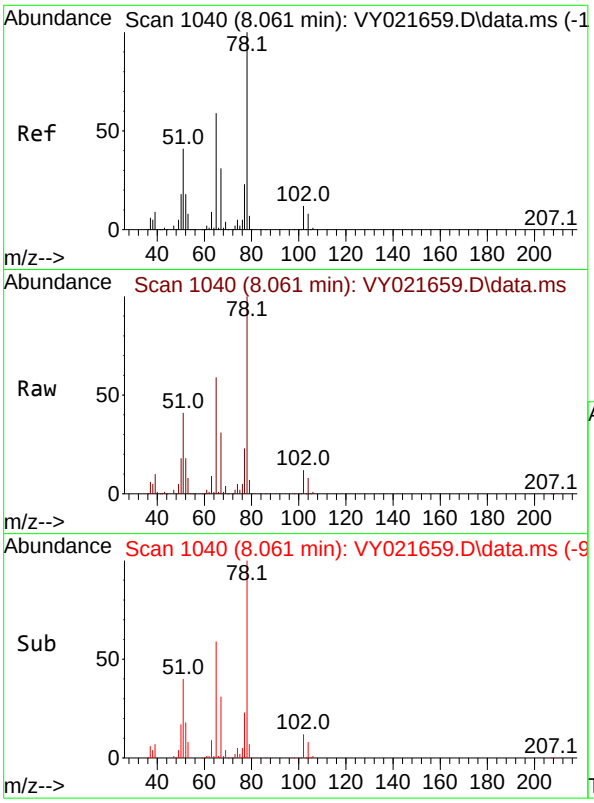


#32
1,1,1-Trichloroethane
Concen: 49.051 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 97 Resp: 230441

Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.7	76.1
61	44.0	35.2	52.8

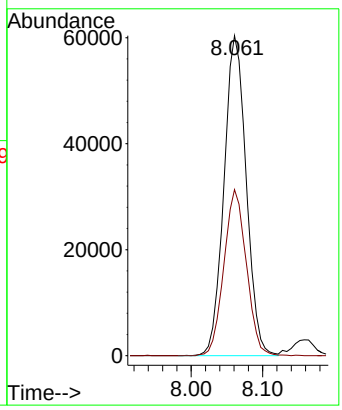




#33
1,2-Dichloroethane-d4
Concen: 50.552 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 65 Resp: 13048

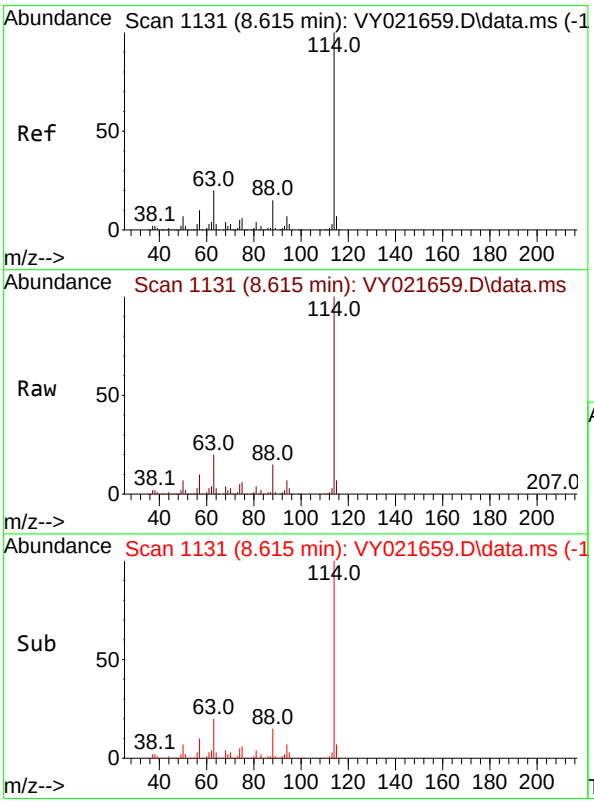
Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

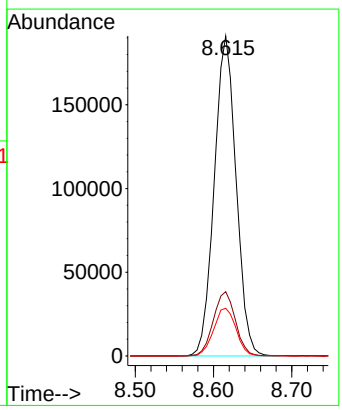
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

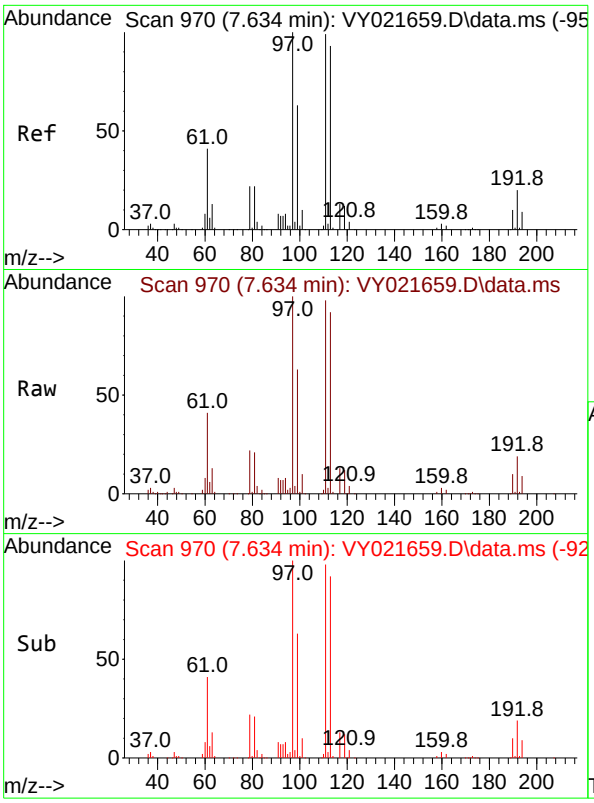


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:114 Resp: 369963

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.2
88	14.9	0.0	29.8

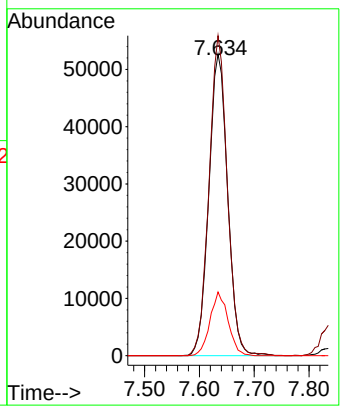




#35
Dibromofluoromethane
Concen: 52.259 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:113 Resp: 12541

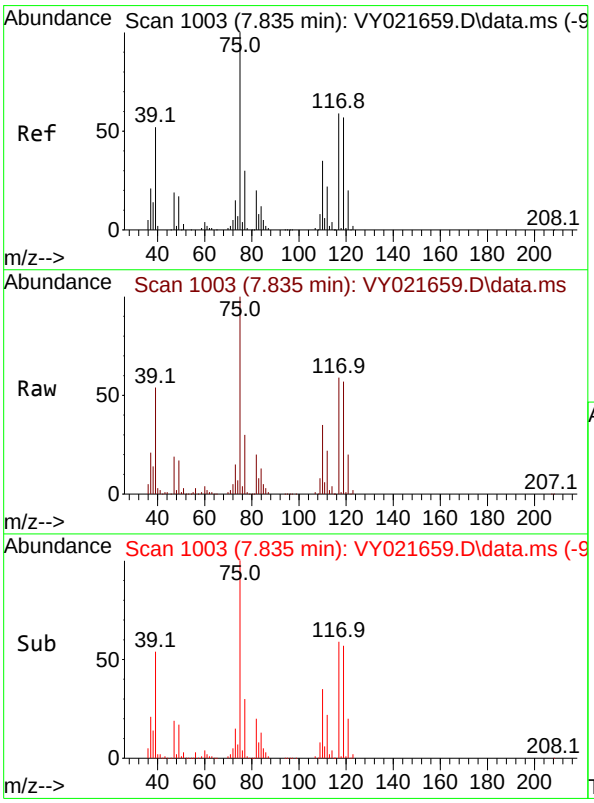
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	20.3	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

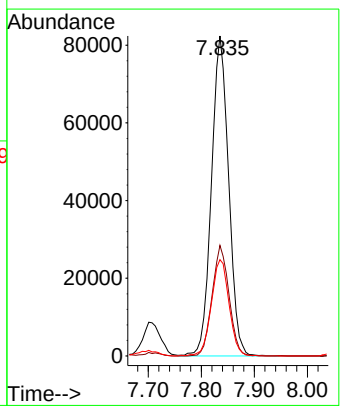
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

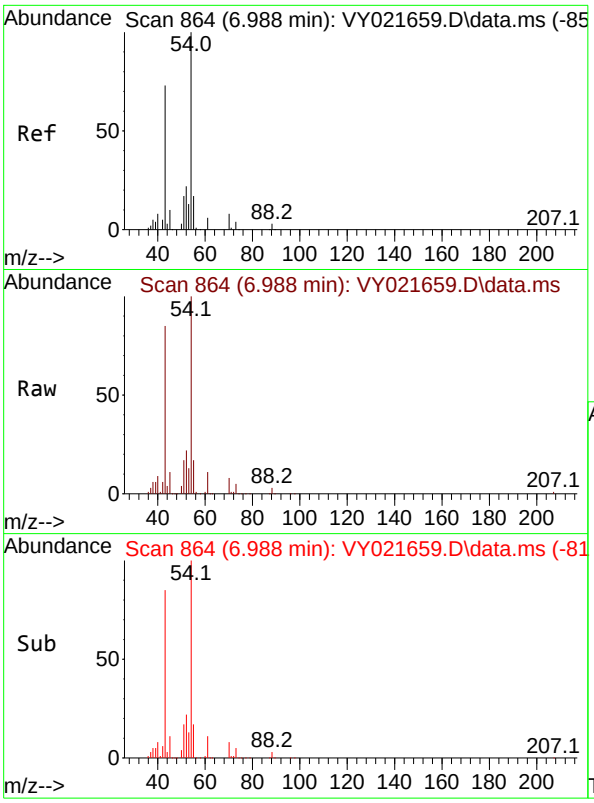


#36
1,1-Dichloropropene
Concen: 50.763 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 75 Resp: 185559

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.0	50.9
77	31.0	24.8	37.2





#37
Ethyl Acetate
Concen: 50.617 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

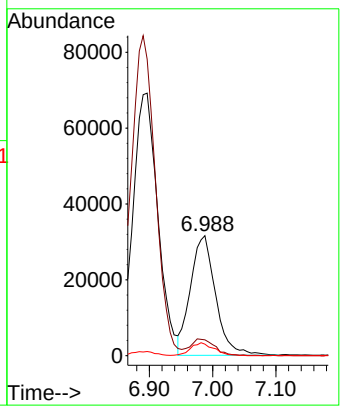
Tgt Ion: 43 Resp: 8732

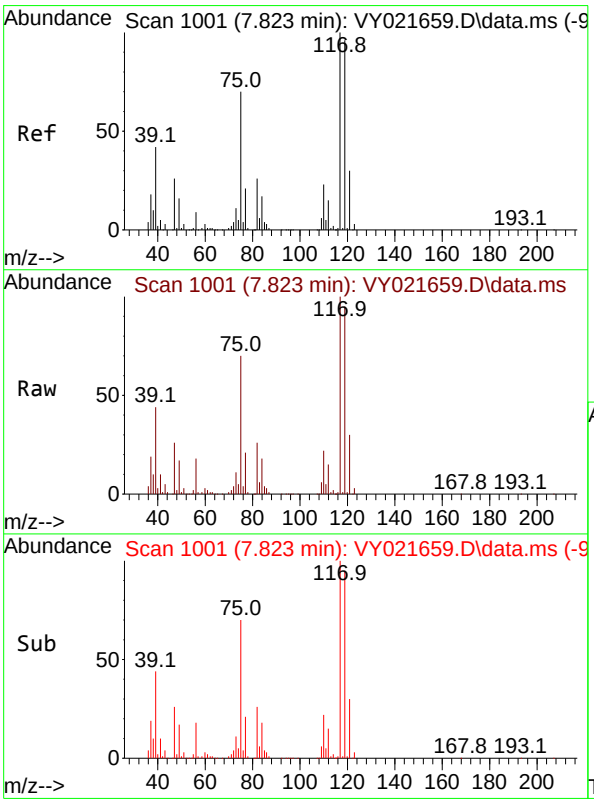
Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.0	16.6
70	10.1	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

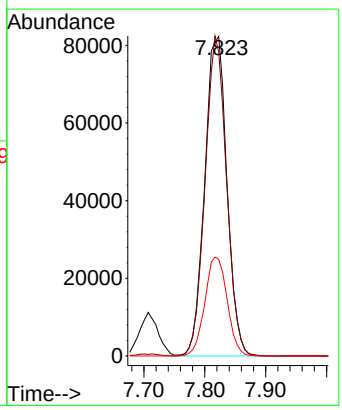


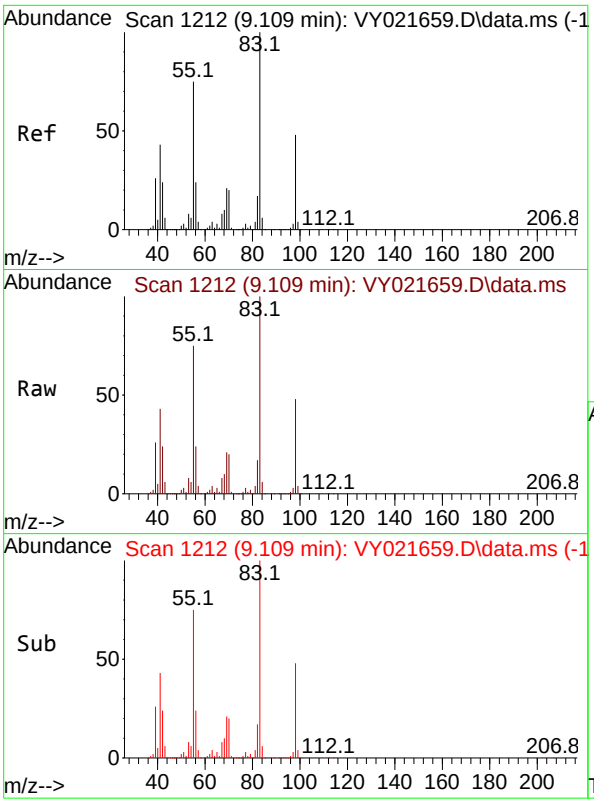


#38
Carbon Tetrachloride
Concen: 49.810 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:117 Resp: 208537

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.2	114.4
121	30.3	24.2	36.4





#39
Methylcyclohexane
Concen: 52.472 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

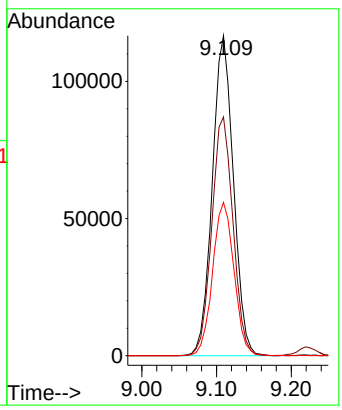
Tgt Ion: 83 Resp: 22913

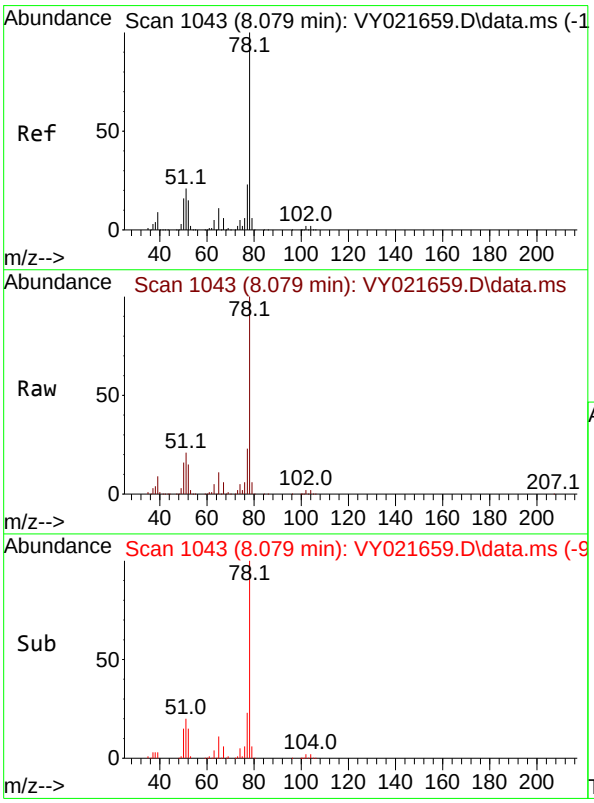
Ion	Ratio	Lower	Upper
83	100		
55	74.6	59.7	89.5
98	47.9	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

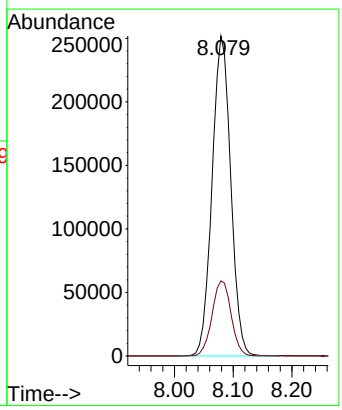


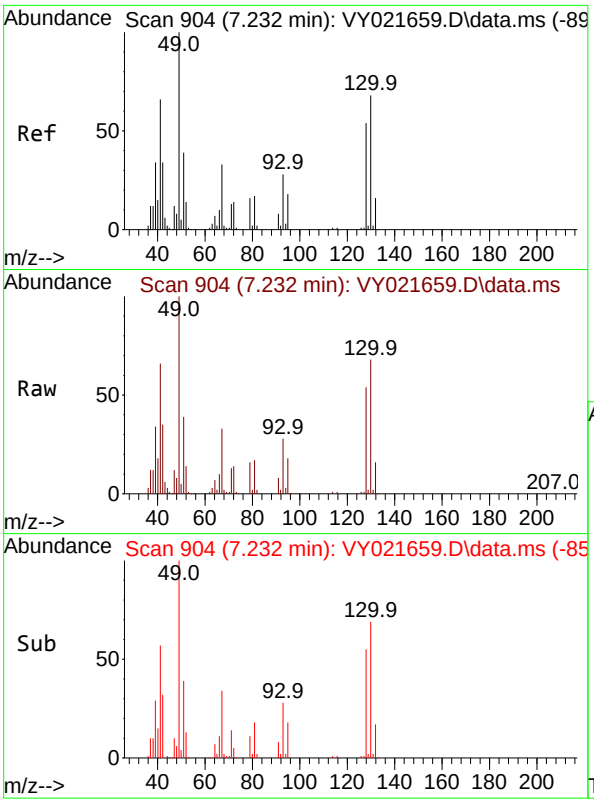


#40
Benzene
Concen: 50.649 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 78 Resp: 554462

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

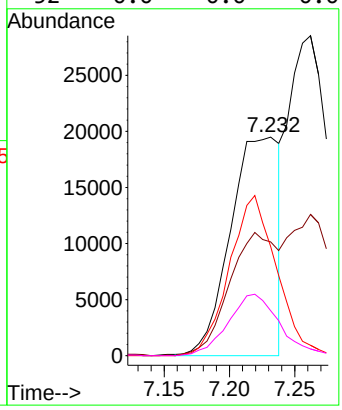




#41
Methacrylonitrile
Concen: 55.298 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 41 Resp: 5065

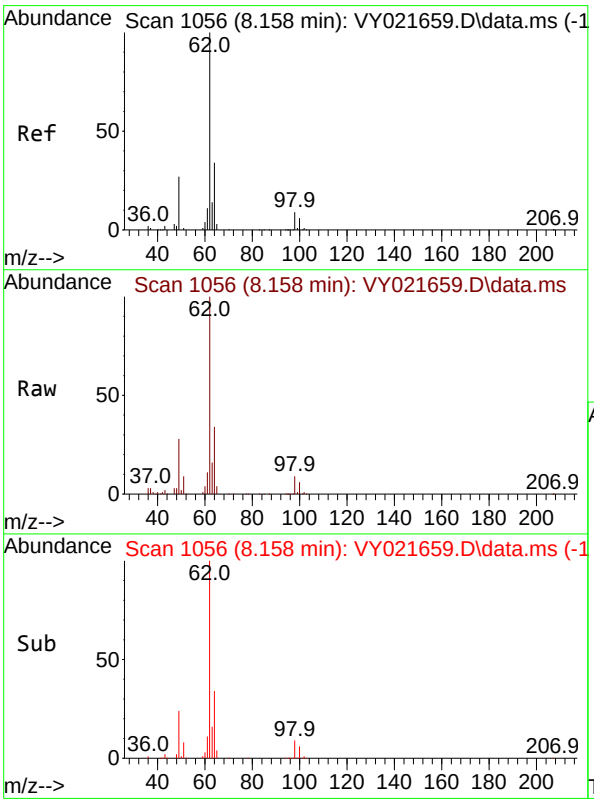
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

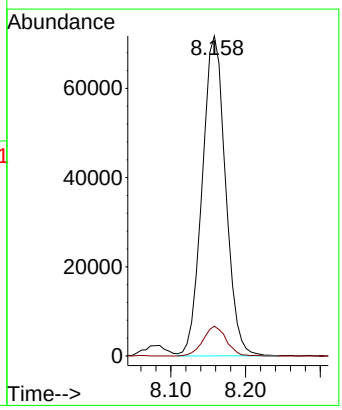
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

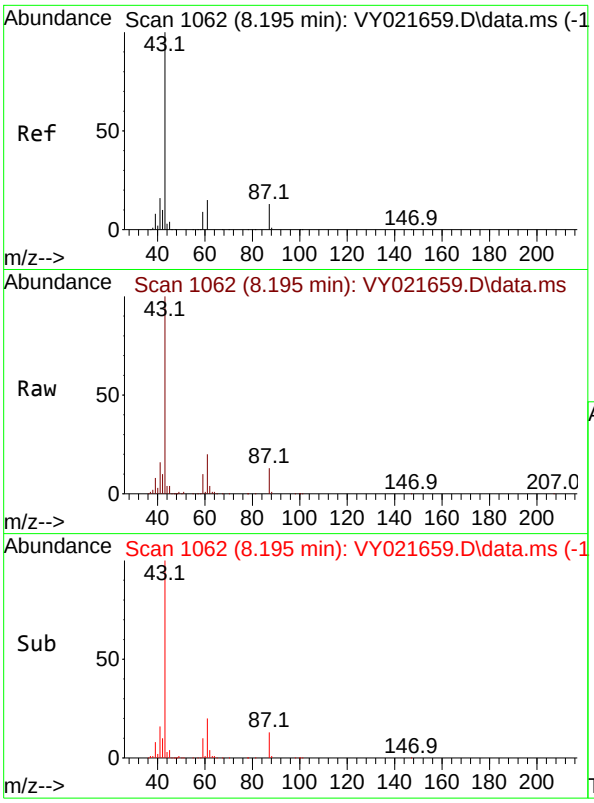


#42
1,2-Dichloroethane
Concen: 50.343 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 62 Resp: 155365

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4

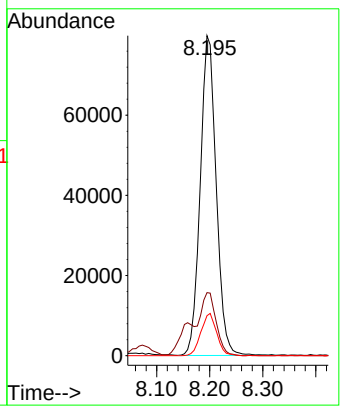




#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 16698

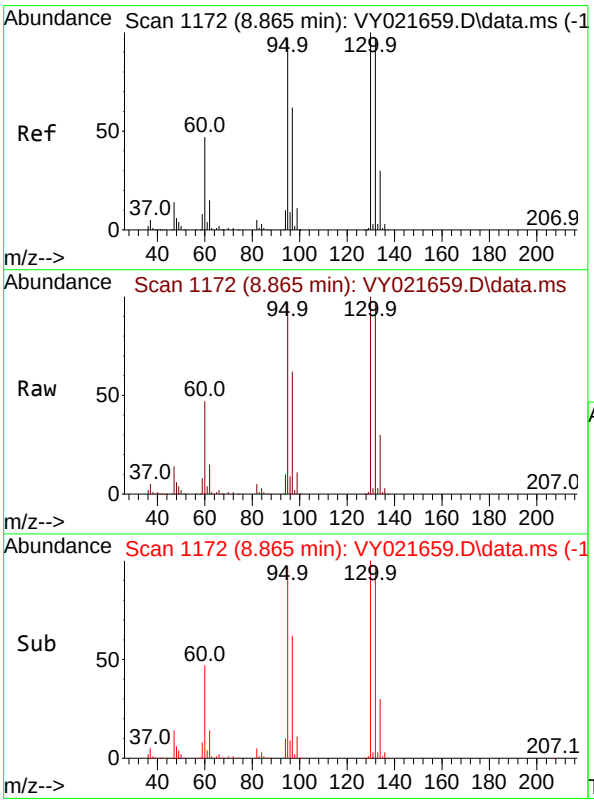
Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.9	23.9
87	13.0	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

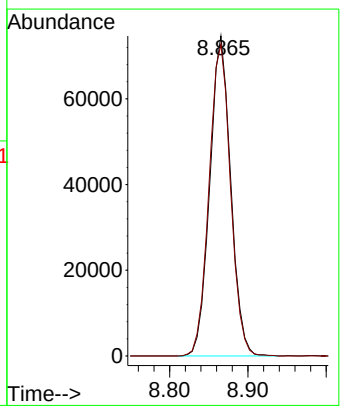
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

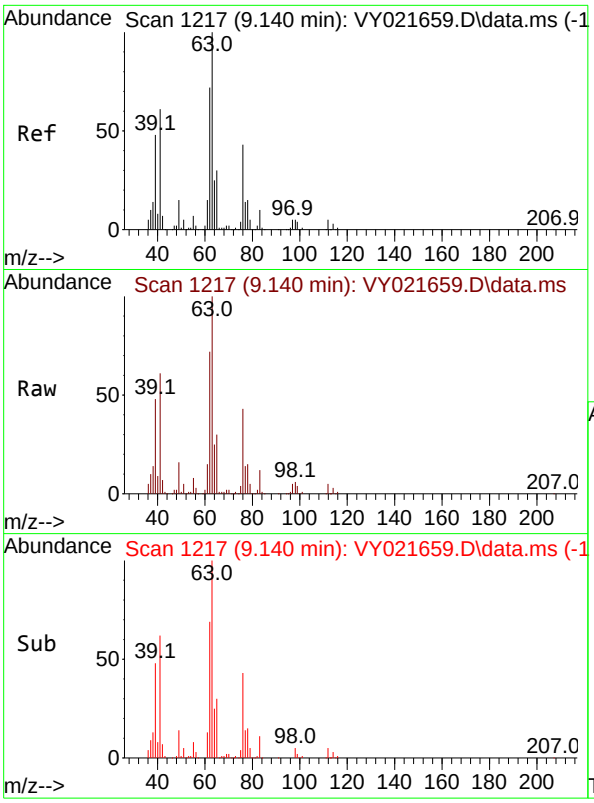


#44
Trichloroethene
Concen: 49.637 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:130 Resp: 138449

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	194.8

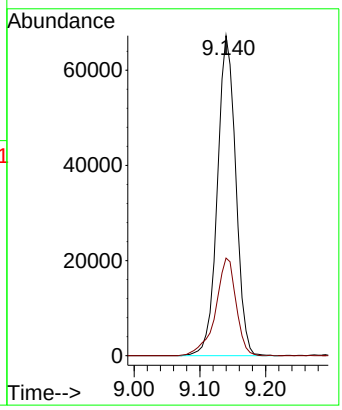




#45
1,2-Dichloropropane
Concen: 50.395 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 63 Resp: 13058

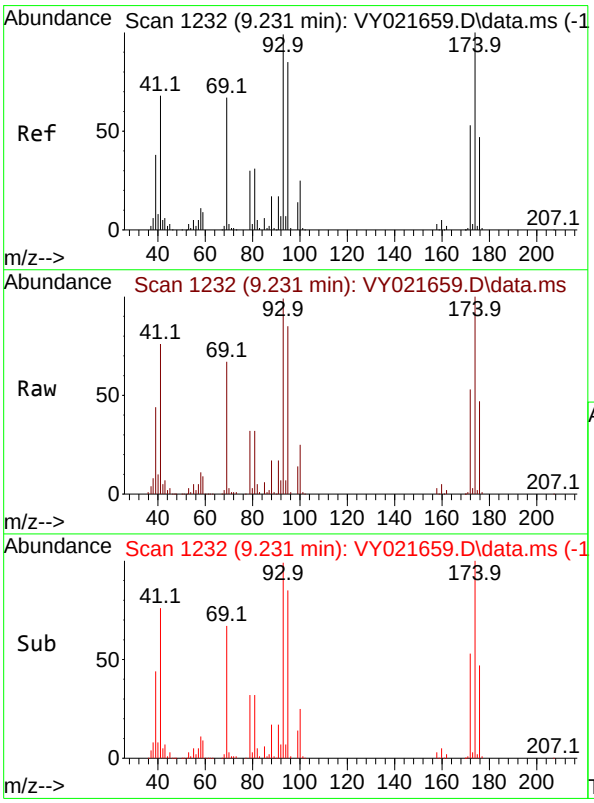
Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

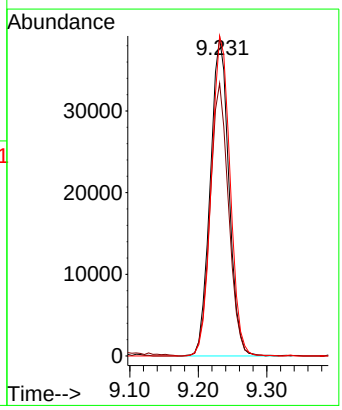
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

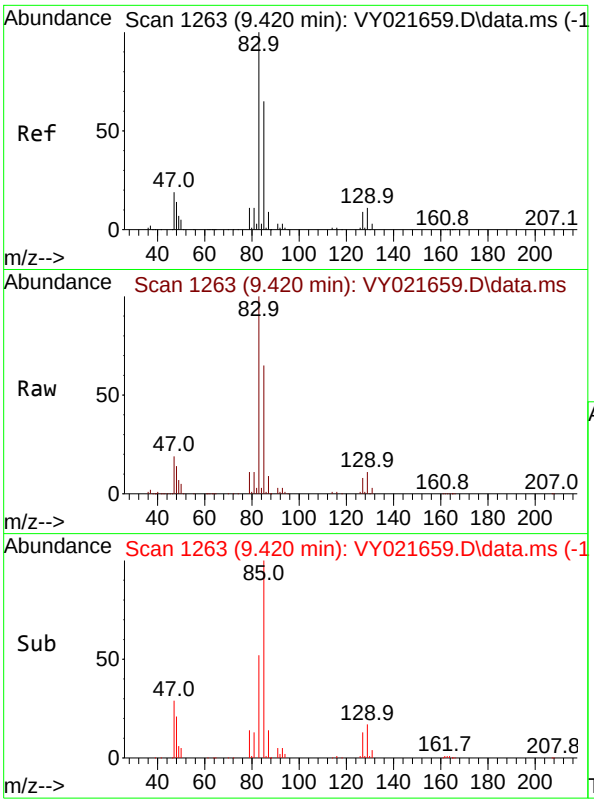


#46
Dibromomethane
Concen: 49.174 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 93 Resp: 73435

Ion	Ratio	Lower	Upper
93	100		
95	85.1	68.1	102.1
174	101.1	80.9	121.3

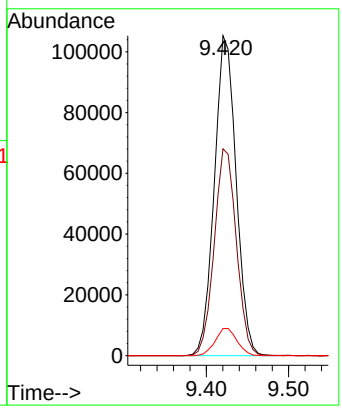




#47
Bromodichloromethane
Concen: 50.237 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 83 Resp: 19439

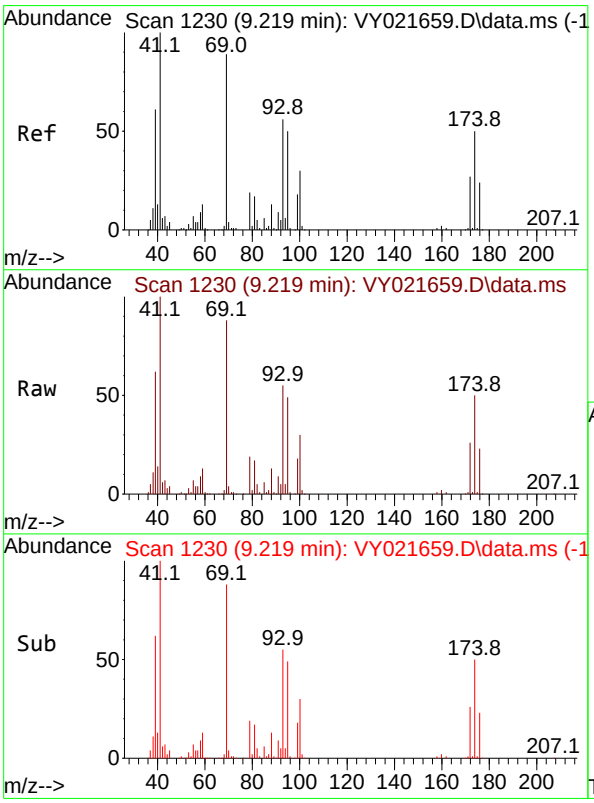
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6
127	8.5	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

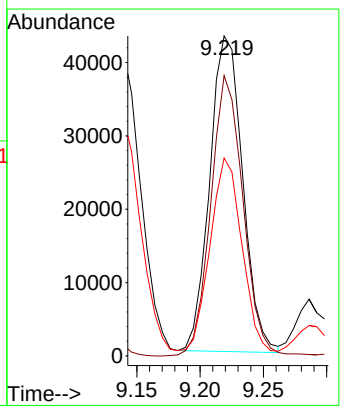
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

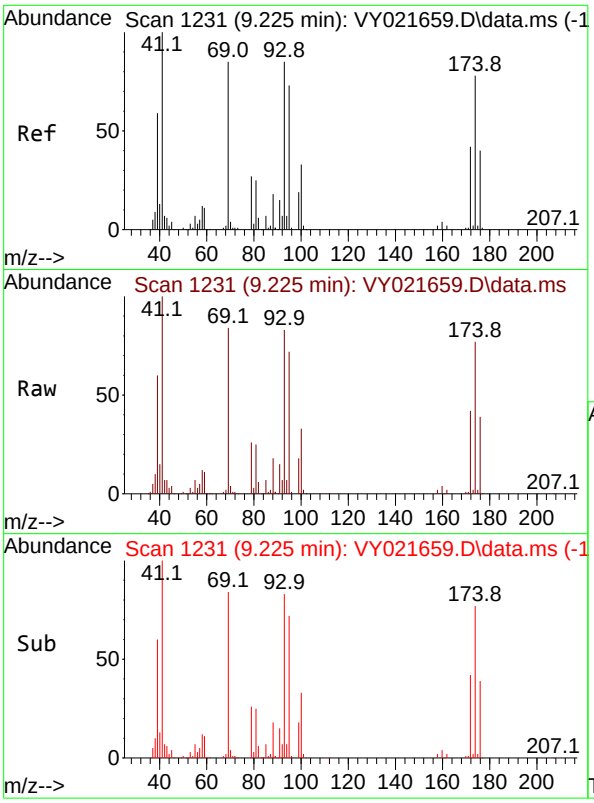


#48
Methyl methacrylate
Concen: 51.902 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 41 Resp: 77877

Ion	Ratio	Lower	Upper
41	100		
69	87.3	69.8	104.8
39	59.0	47.2	70.8

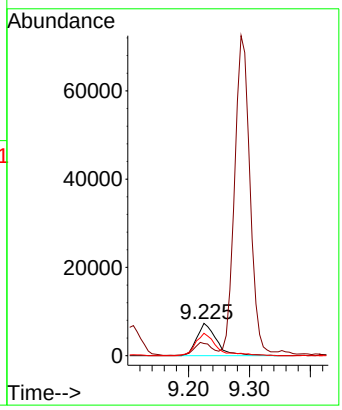




#49
1,4-Dioxane
Concen: 1030.192 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 88 Resp: 1648

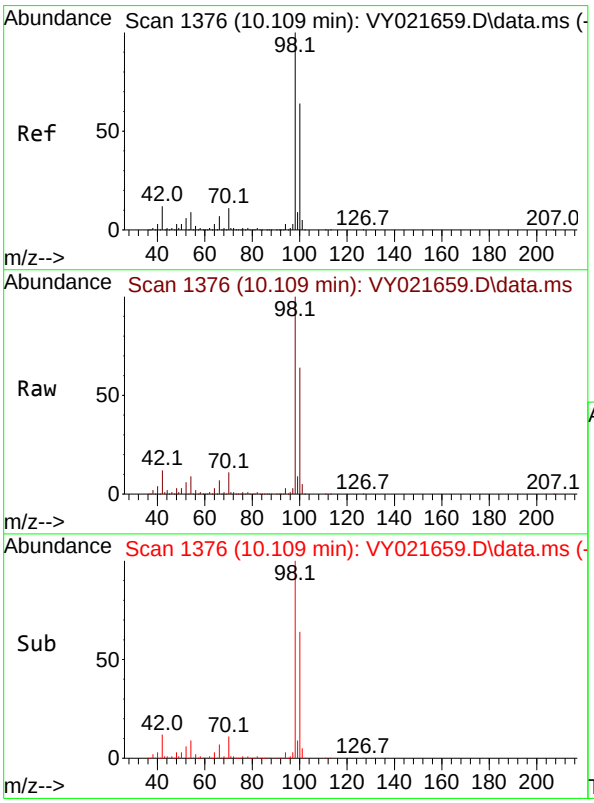
Ion	Ratio	Lower	Upper
88	100		
43	36.0	28.8	43.2
58	74.3	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

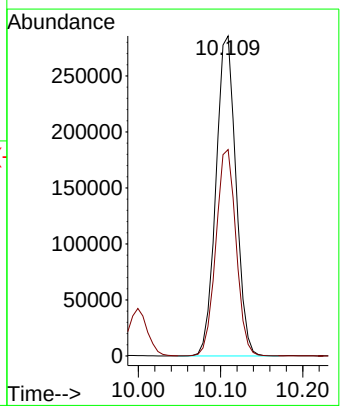
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

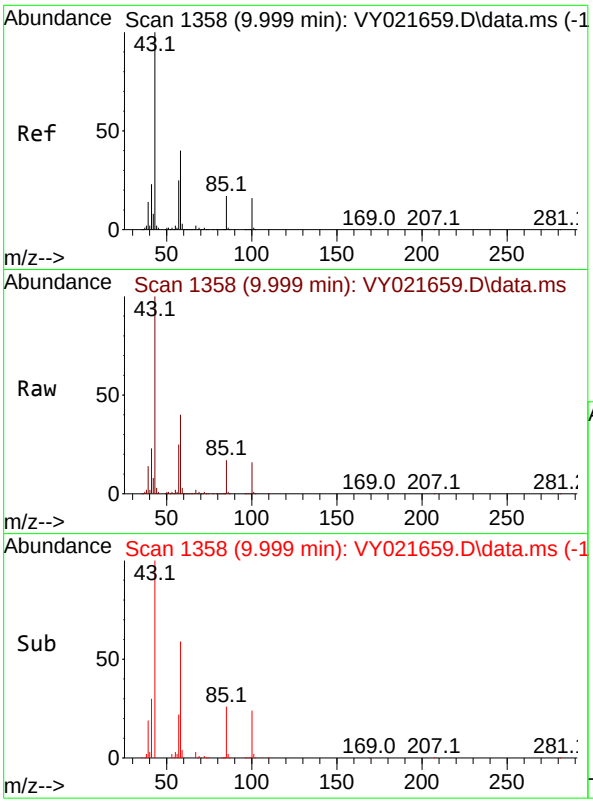


#50
Toluene-d8
Concen: 52.909 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 98 Resp: 483058

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.1	78.1

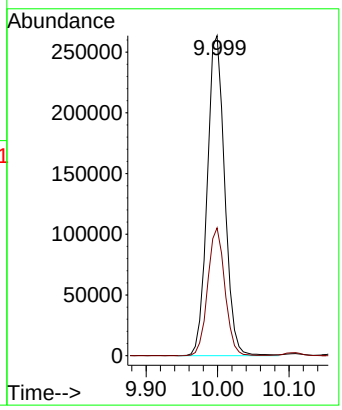




#51
4-Methyl-2-Pentanone
Concen: 261.893 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 44556

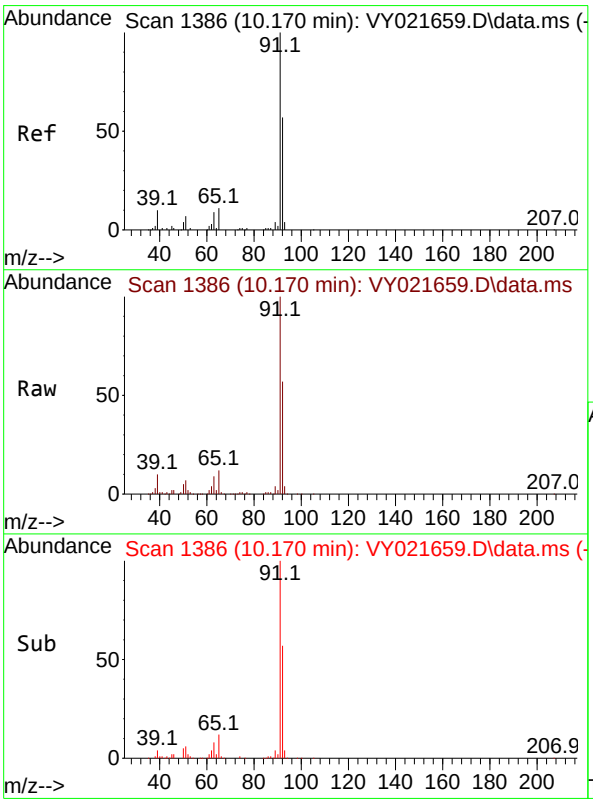
Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

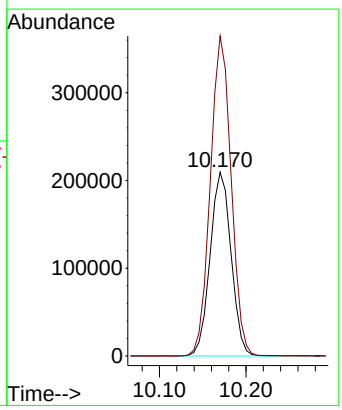
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

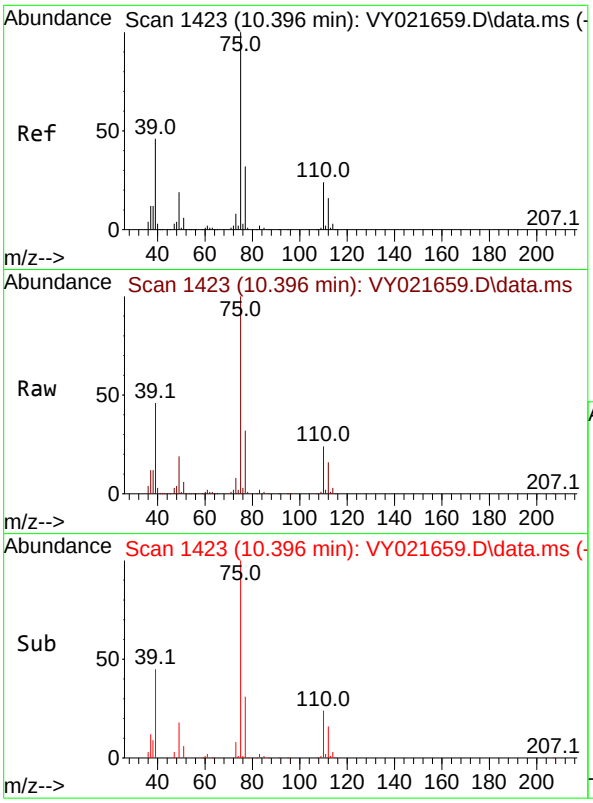


#52
Toluene
Concen: 51.496 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 92 Resp: 351715

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.6	207.8

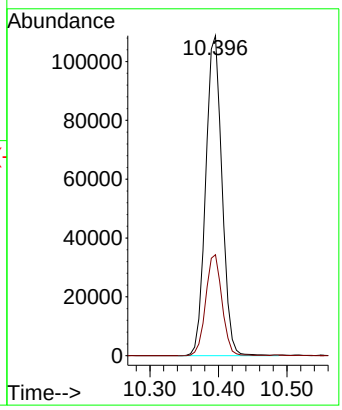




#53
t-1,3-Dichloropropene
Concen: 52.296 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 75 Resp: 17974

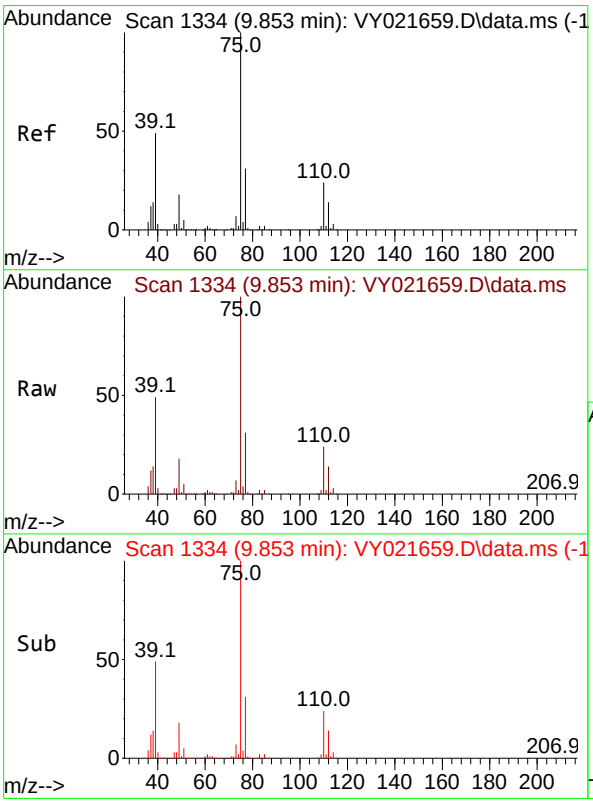
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

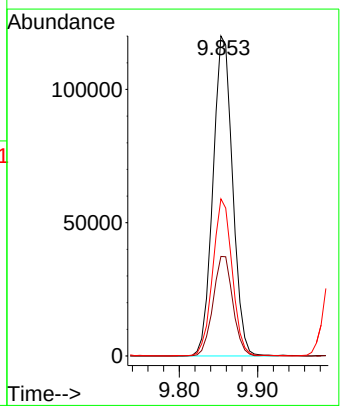
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

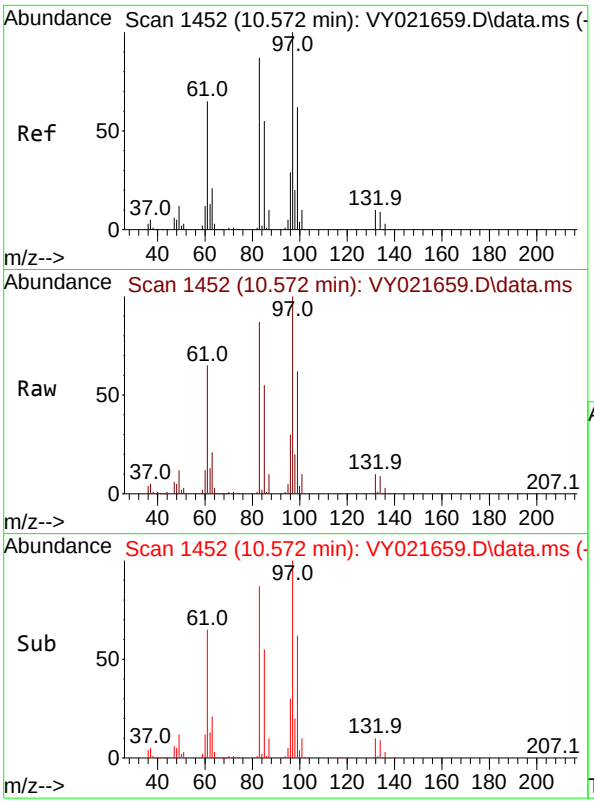


#54
cis-1,3-Dichloropropene
Concen: 51.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 75 Resp: 209143

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.9	37.3
39	49.0	39.2	58.8

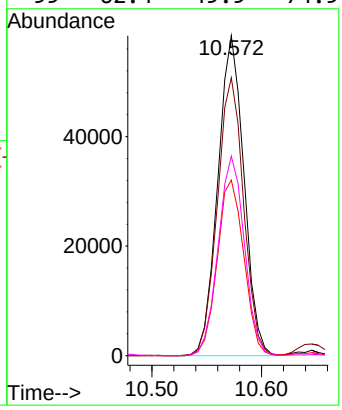




#55
1,1,2-Trichloroethane
Concen: 50.254 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 97 Resp: 9657

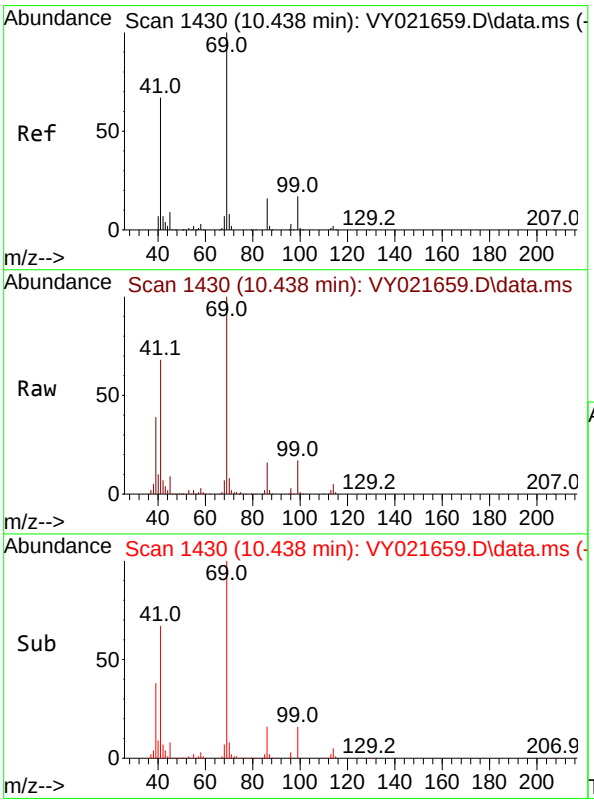
Ion	Ratio	Lower	Upper
97	100		
83	86.9	69.5	104.3
85	54.9	43.9	65.9
99	62.4	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

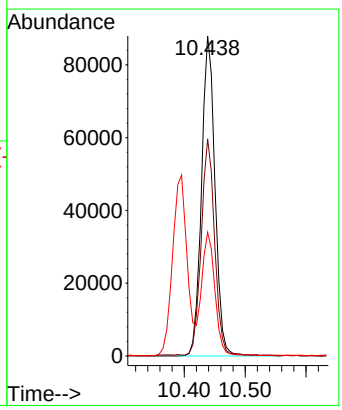
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

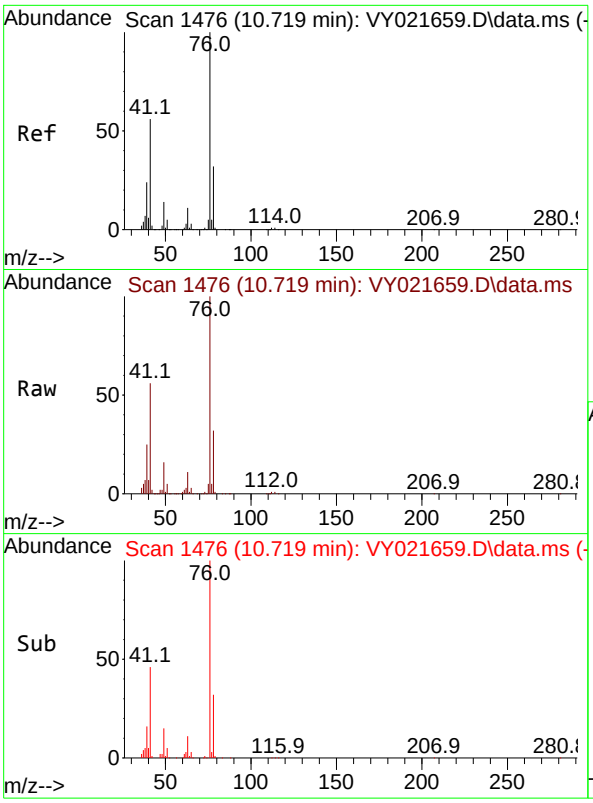


#56
Ethyl methacrylate
Concen: 55.124 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 69 Resp: 135272

Ion	Ratio	Lower	Upper
69	100		
41	67.2	53.8	80.6
39	37.0	29.6	44.4

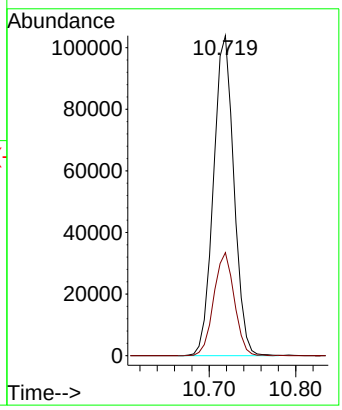




#57
1,3-Dichloropropane
Concen: 51.252 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 76 Resp: 170109

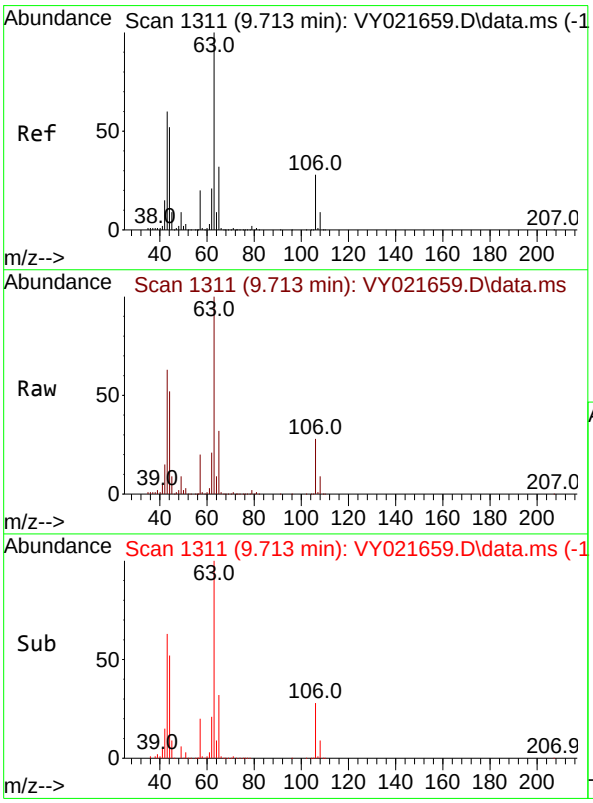
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

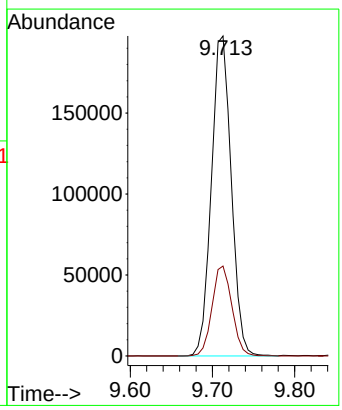
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

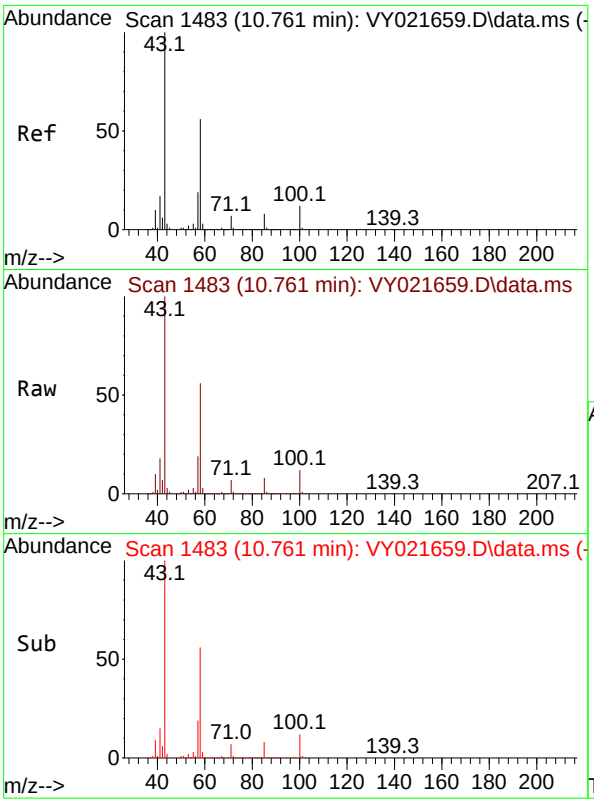


#58
2-Chloroethyl Vinyl ether
Concen: 277.643 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 63 Resp: 332369

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6





#59
2-Hexanone
Concen: 267.012 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

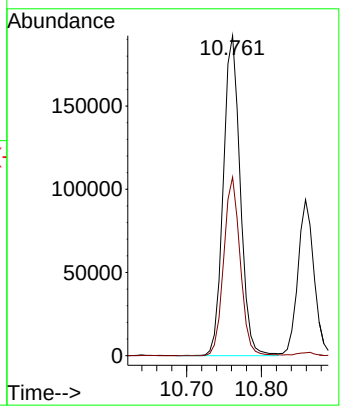
Tgt Ion: 43 Resp: 30253

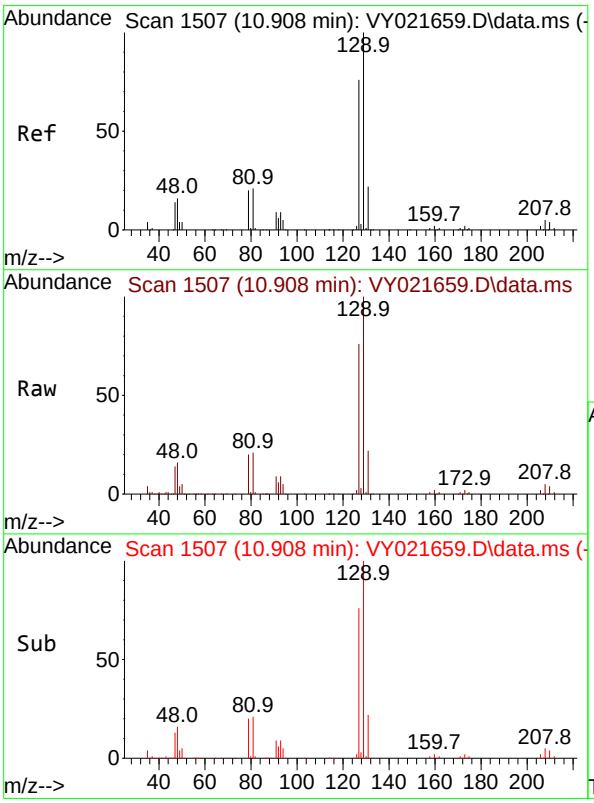
Ion	Ratio	Lower	Upper
43	100		
58	54.3	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

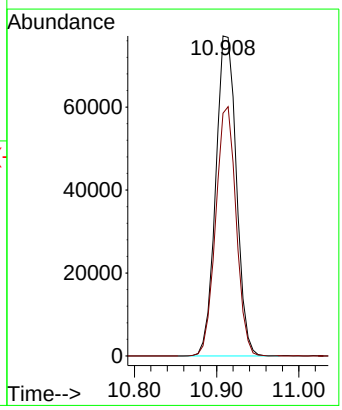


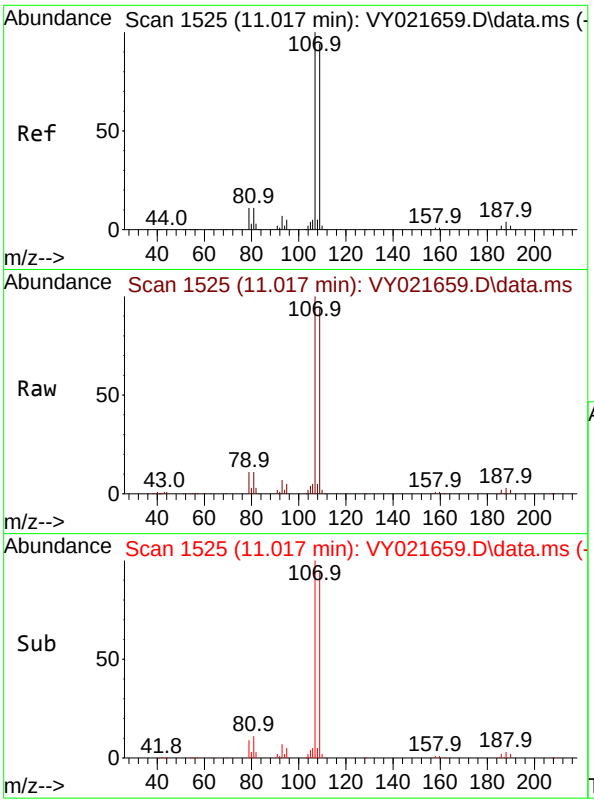


#60
Dibromochloromethane
Concen: 51.334 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:129 Resp: 134696

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7

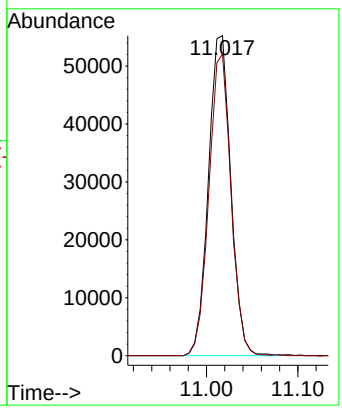




#61
1,2-Dibromoethane
Concen: 52.067 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:107 Resp: 9386

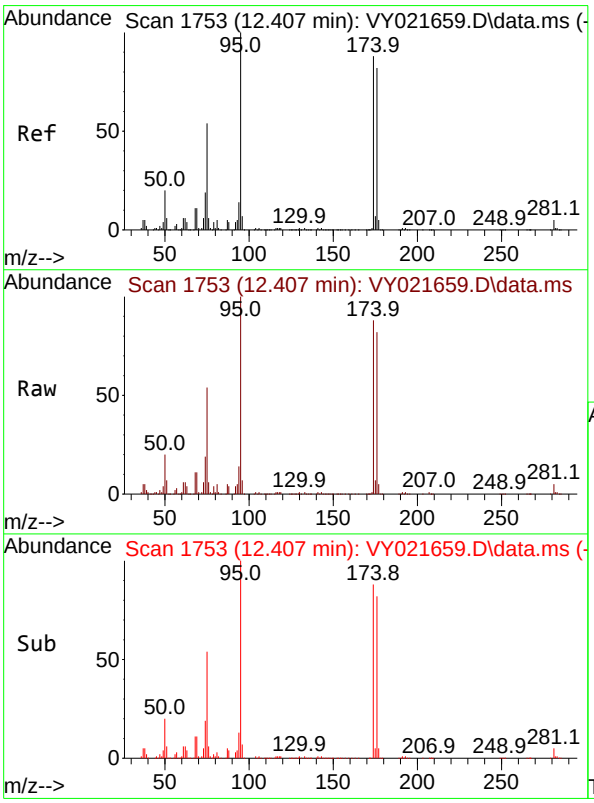
Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

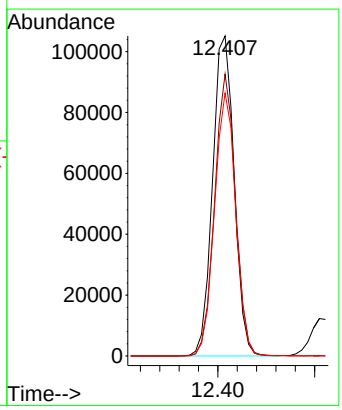
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

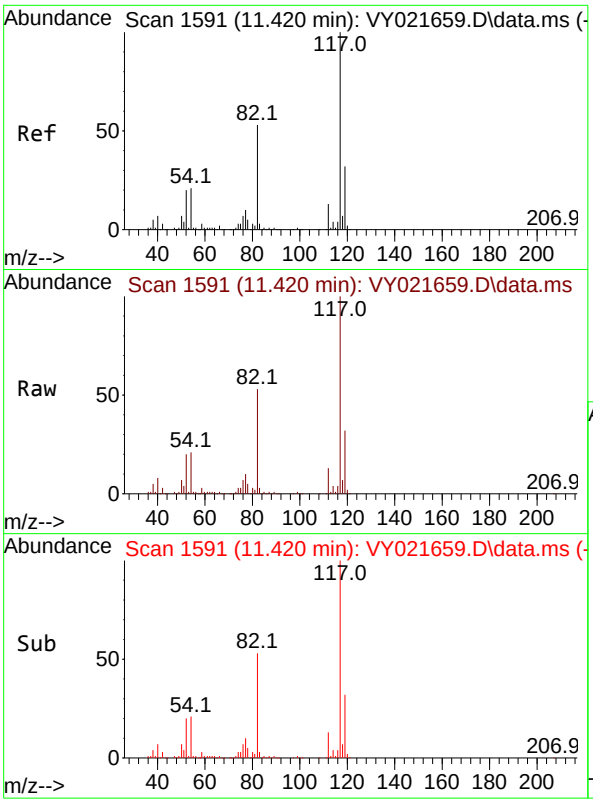


#62
4-Bromofluorobenzene
Concen: 52.583 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 95 Resp: 162384

Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	170.8
176	81.0	0.0	162.0

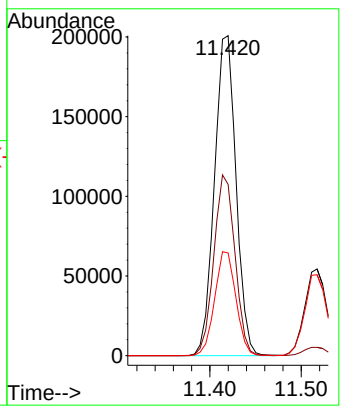




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:117 Resp: 32962

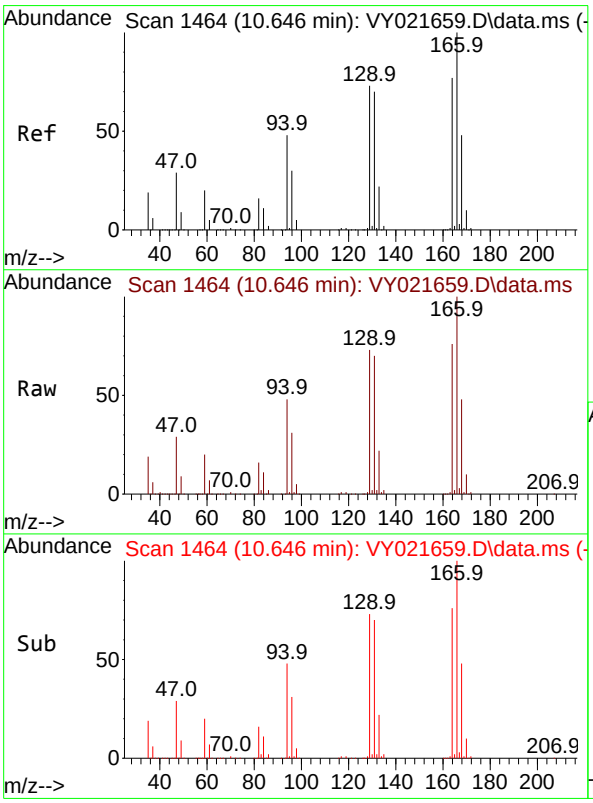
Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.8	64.2
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

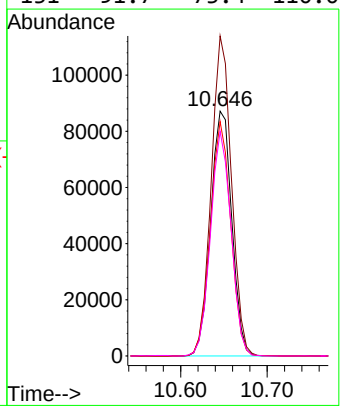
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

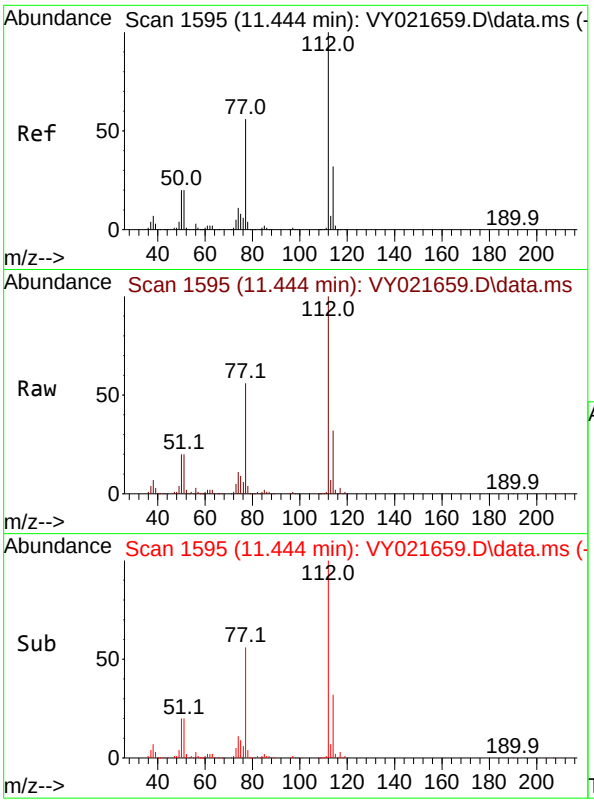


#64
Tetrachloroethene
Concen: 49.288 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:164 Resp: 147971

Ion	Ratio	Lower	Upper
164	100		
166	130.7	104.6	156.8
129	95.7	76.6	114.8
131	91.7	73.4	110.0

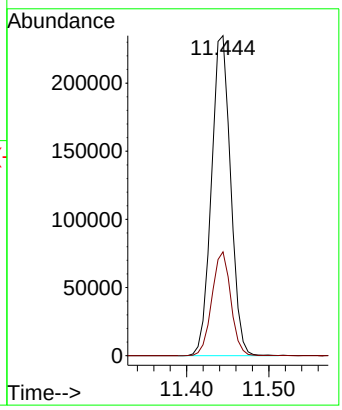




#65
Chlorobenzene
Concen: 50.378 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:112 Resp: 38066

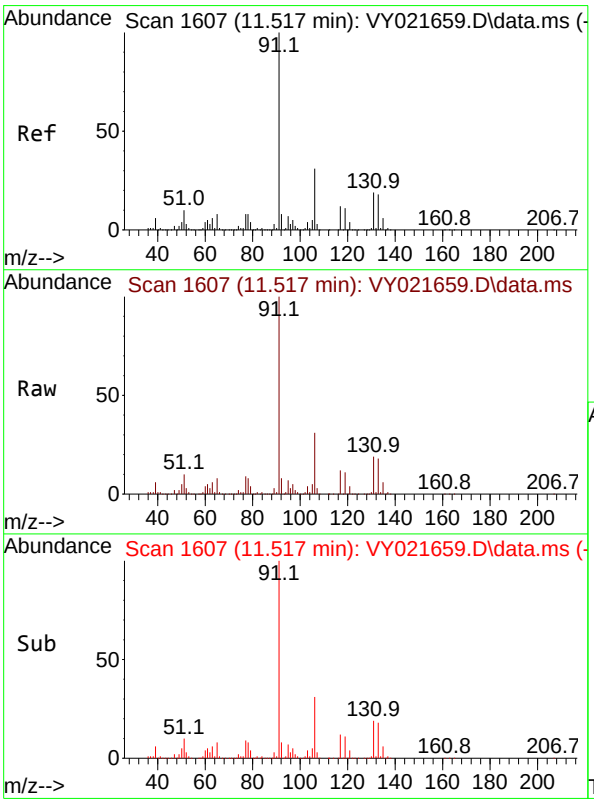
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

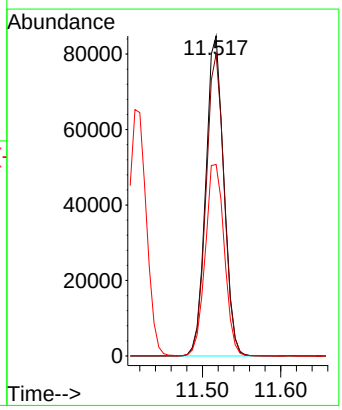
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

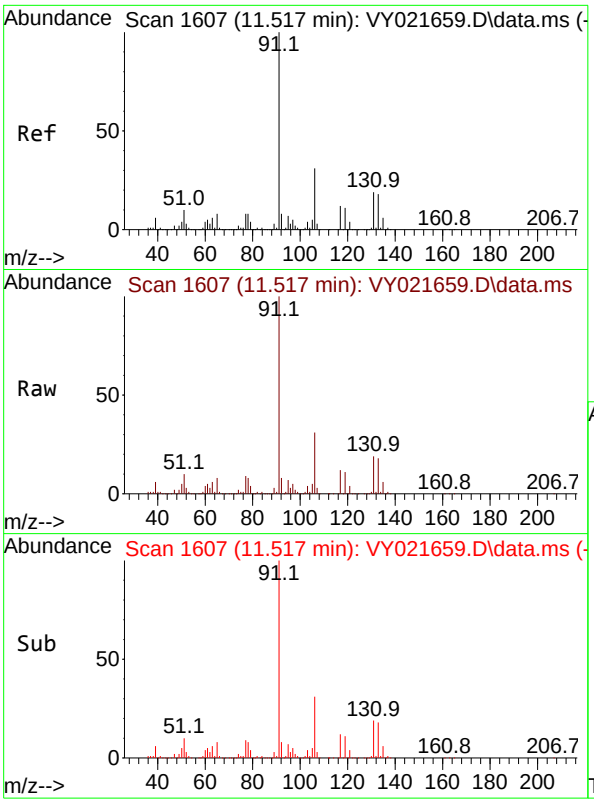


#66
1,1,1,2-Tetrachloroethane
Concen: 50.602 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:131 Resp: 135660

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	63.3	31.6	95.0

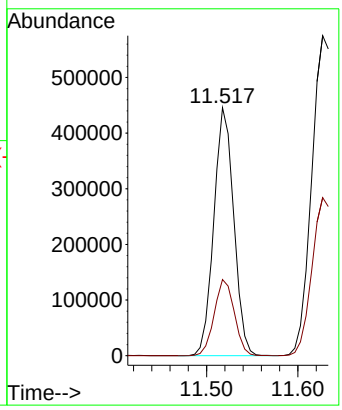




#67
Ethyl Benzene
Concen: 52.188 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 91 Resp: 67620

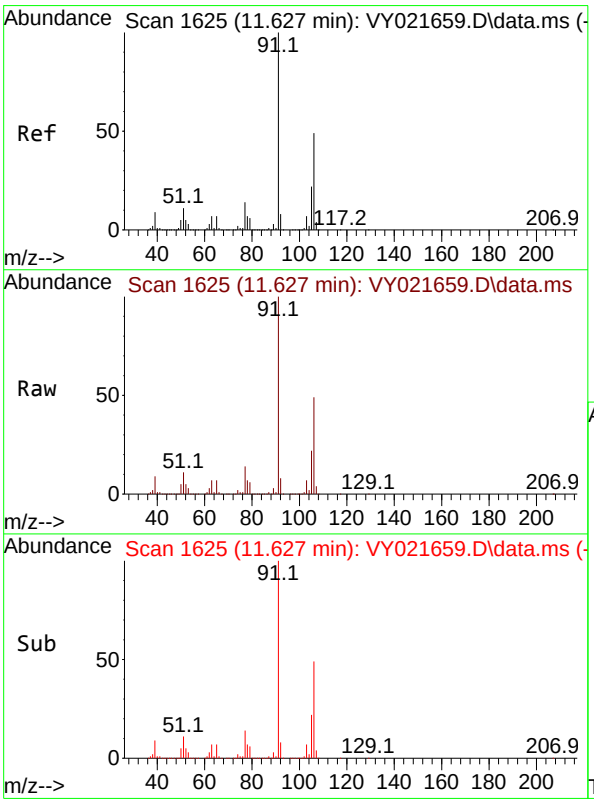
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

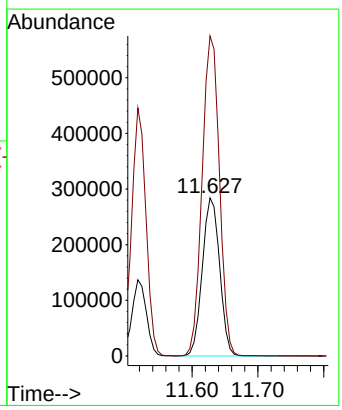
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

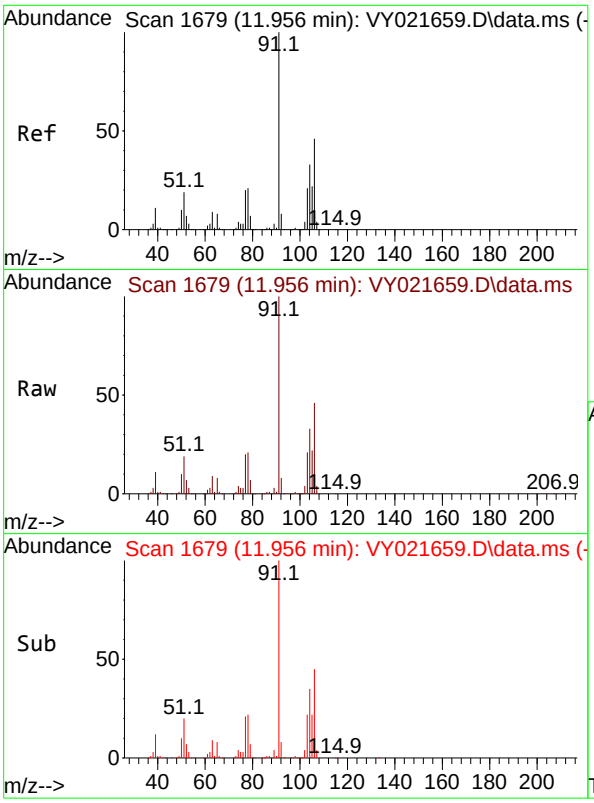


#68
m/p-Xylenes
Concen: 104.634 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:106 Resp: 519154

Ion	Ratio	Lower	Upper
106	100		
91	203.0	162.4	243.6





#69
o-Xylene
Concen: 53.135 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

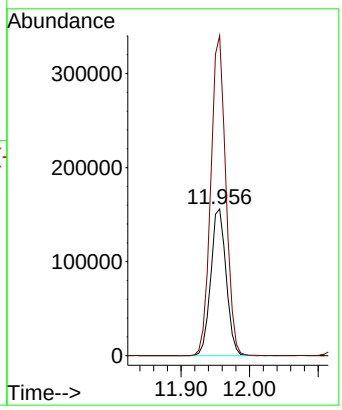
Tgt Ion:106 Resp: 24335

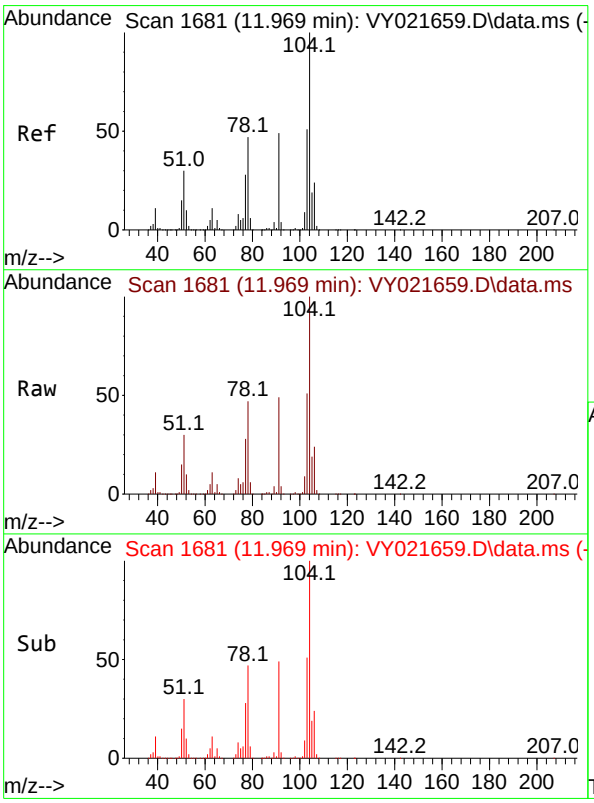
Ion	Ratio	Lower	Upper
106	100		
91	213.3	106.7	319.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

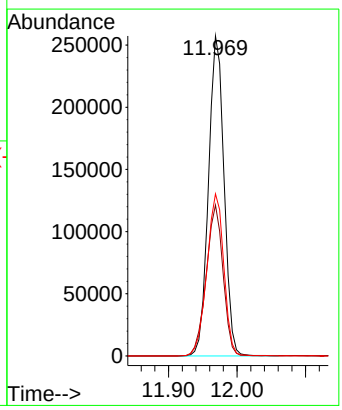


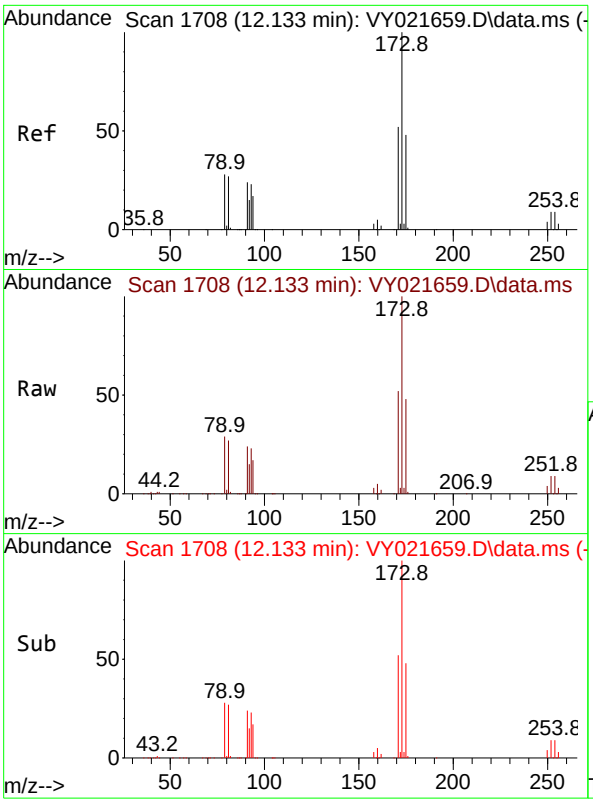


#70
Styrene
Concen: 53.195 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:104 Resp: 406215

Ion	Ratio	Lower	Upper
104	100		
78	51.0	40.8	61.2
103	55.2	44.2	66.2

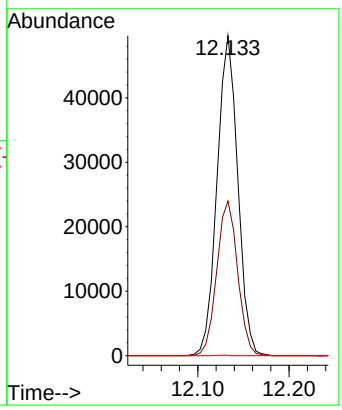




#71
Bromoform
Concen: 51.140 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:173 Resp: 7820

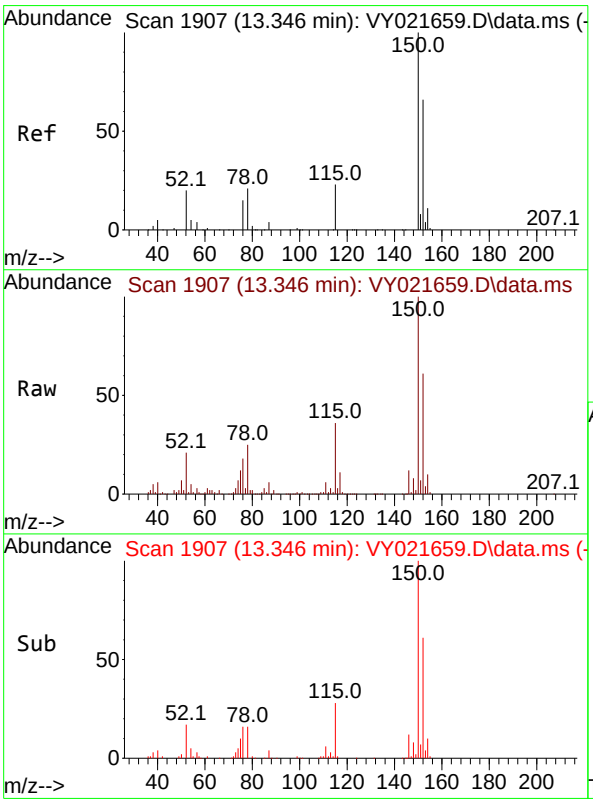
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

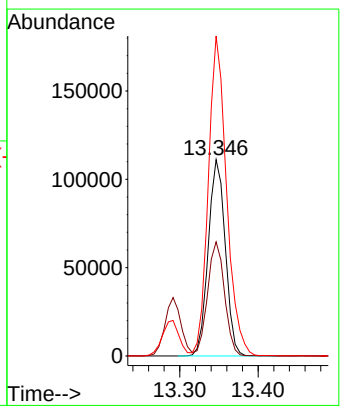
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

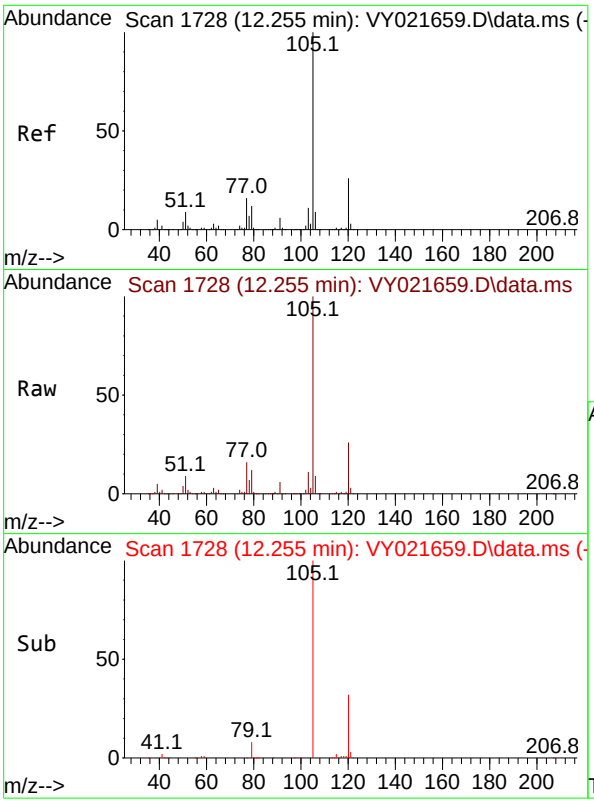


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:152 Resp: 167924

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.8	86.5
150	174.2	0.0	348.4

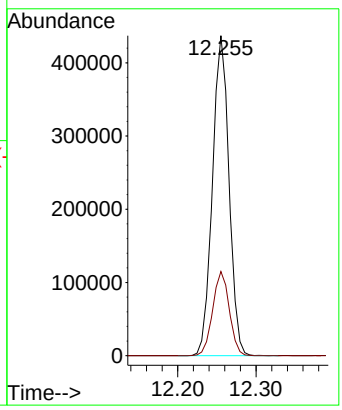




#73
Isopropylbenzene
Concen: 51.505 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:105 Resp: 64239

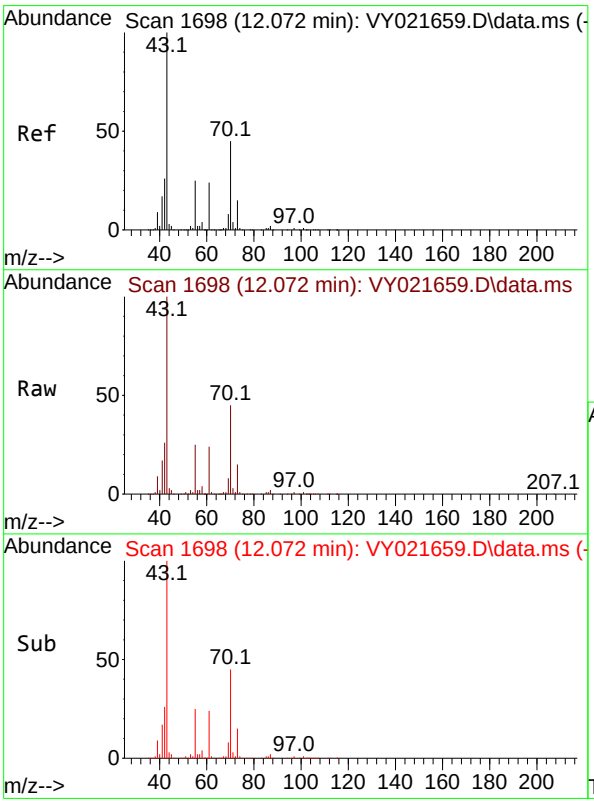
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

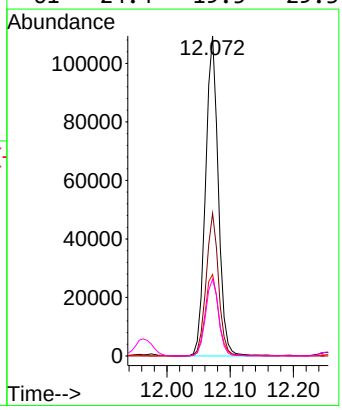
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

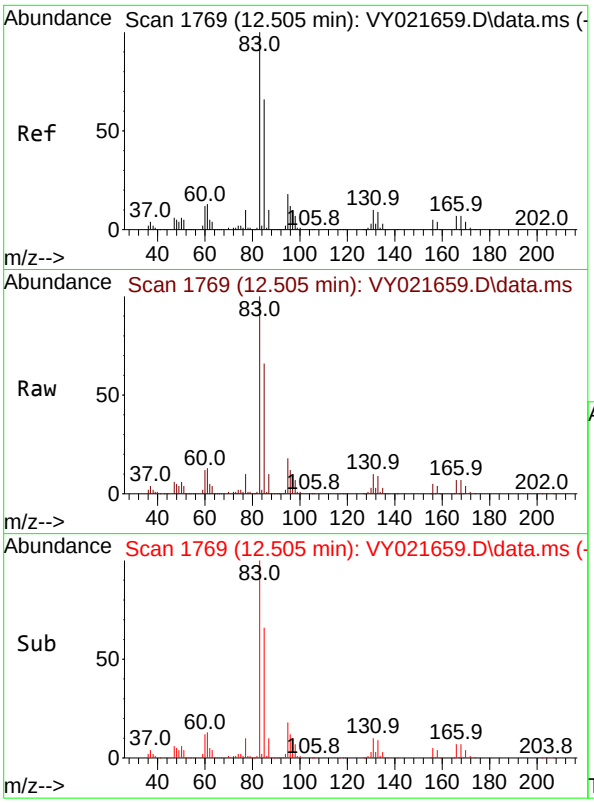


#74
N-amyl acetate
Concen: 52.630 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 43 Resp: 154054

Ion	Ratio	Lower	Upper
43	100		
70	43.4	34.7	52.1
55	26.5	21.2	31.8
61	24.4	19.5	29.3

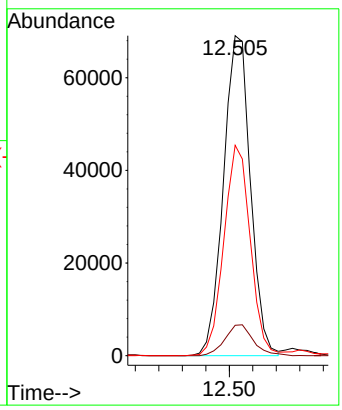




#75
1,1,2,2-Tetrachloroethane
Concen: 49.185 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 83 Resp: 11029

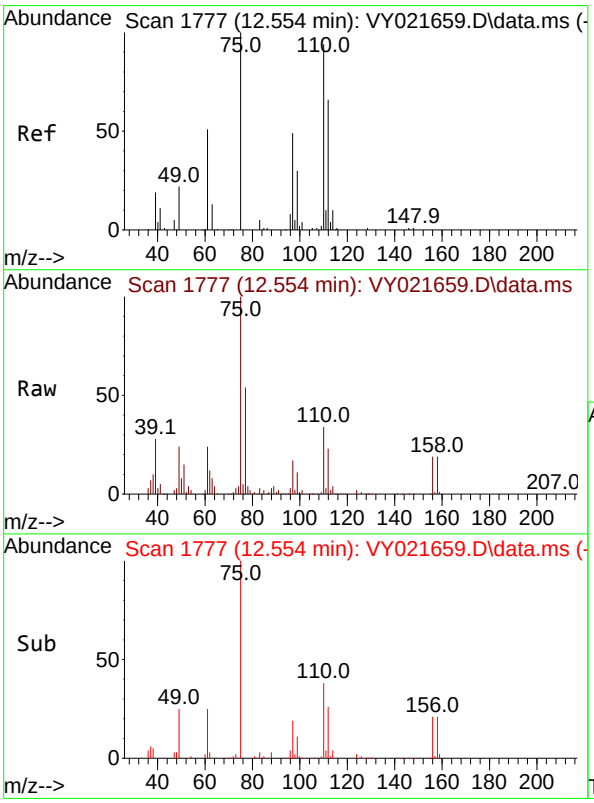
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	64.5	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

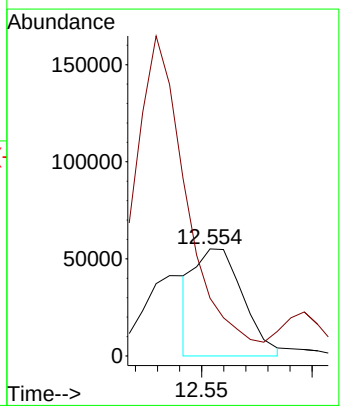
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

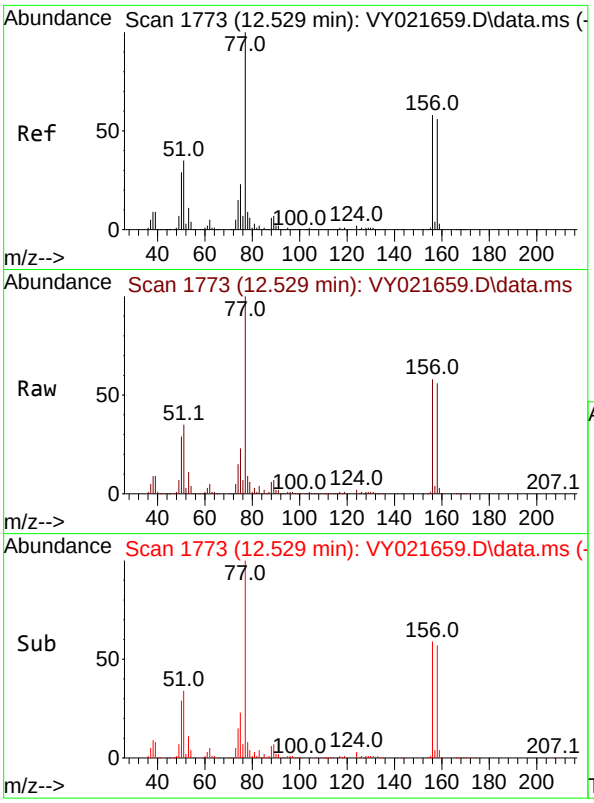


#76
1,2,3-Trichloropropane
Concen: 50.257 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 75 Resp: 83656

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

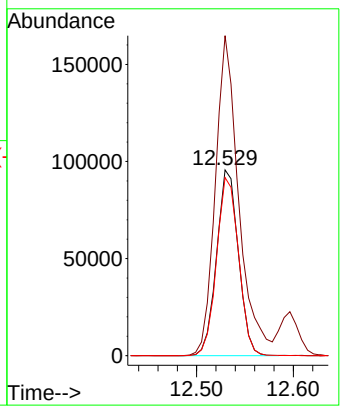




#77
Bromobenzene
Concen: 49.864 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:156 Resp: 14932

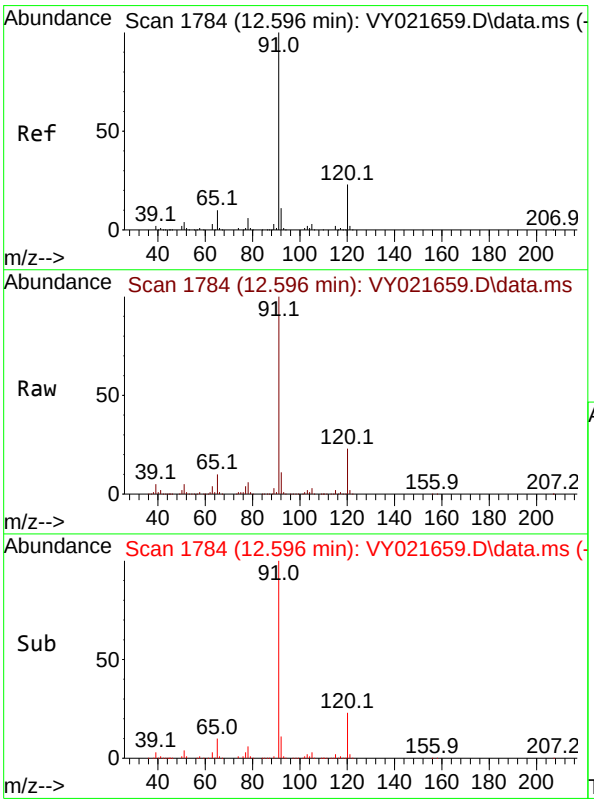
Ion	Ratio	Lower	Upper
156	100		
77	185.5	92.8	278.3
158	97.1	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

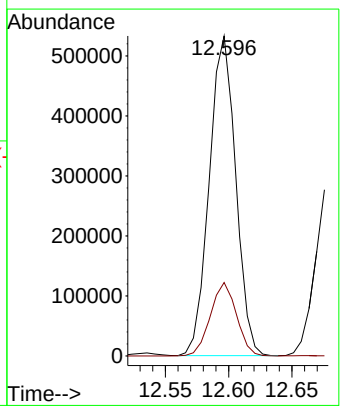
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

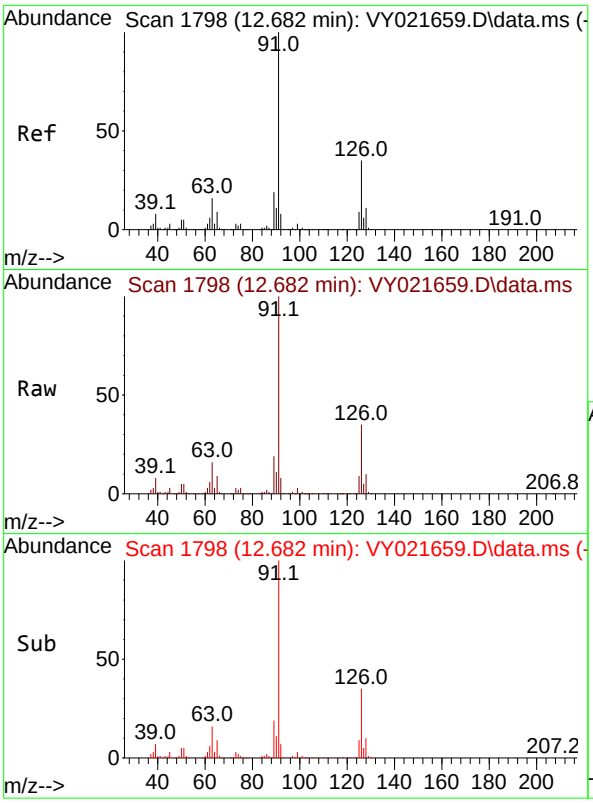


#78
n-propylbenzene
Concen: 51.702 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 91 Resp: 775252

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.9

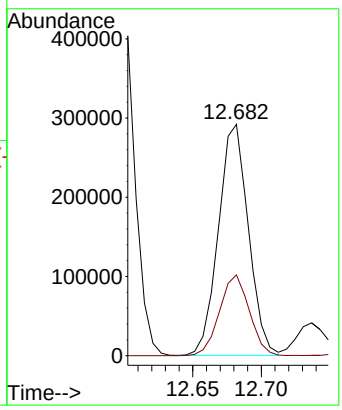




#79
2-Chlorotoluene
Concen: 51.001 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 91 Resp: 44417

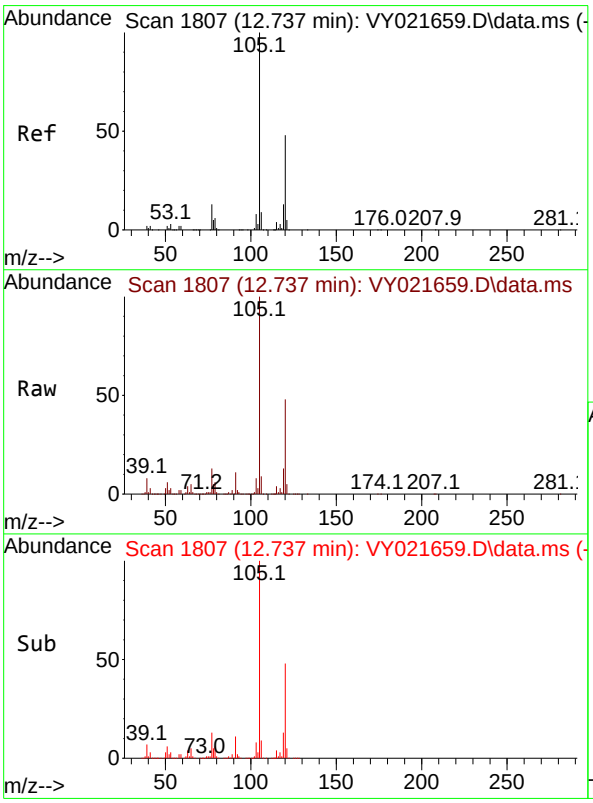
Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

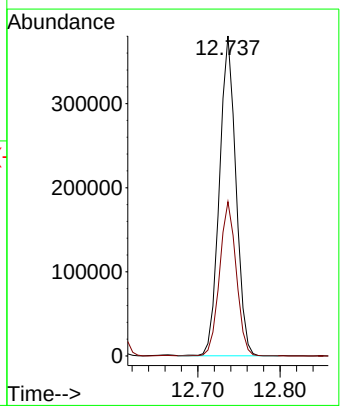
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

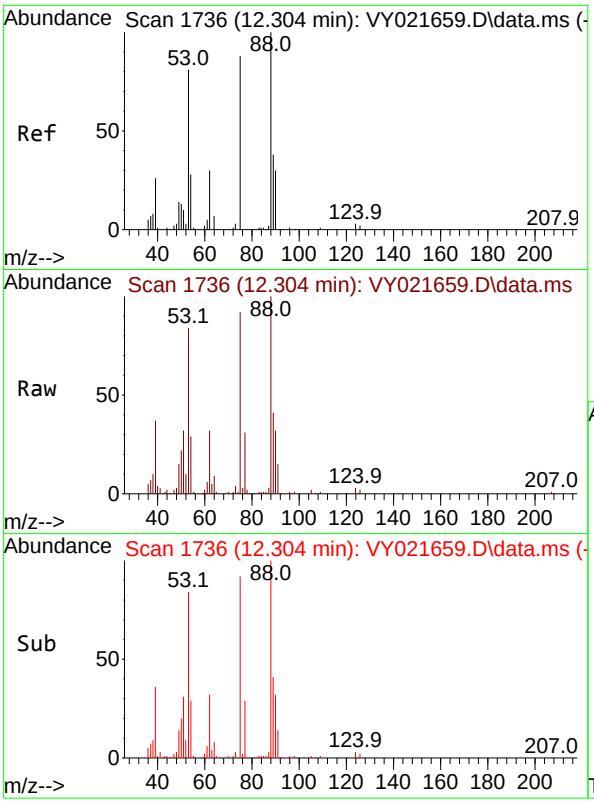


#80
1,3,5-Trimethylbenzene
Concen: 51.839 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:105 Resp: 528425

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.5	73.5

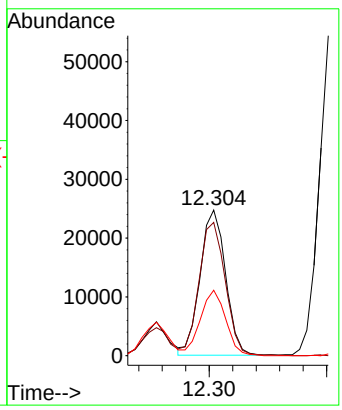




#81
trans-1,4-Dichloro-2-butene
Concen: 51.550 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 75 Resp: 3724

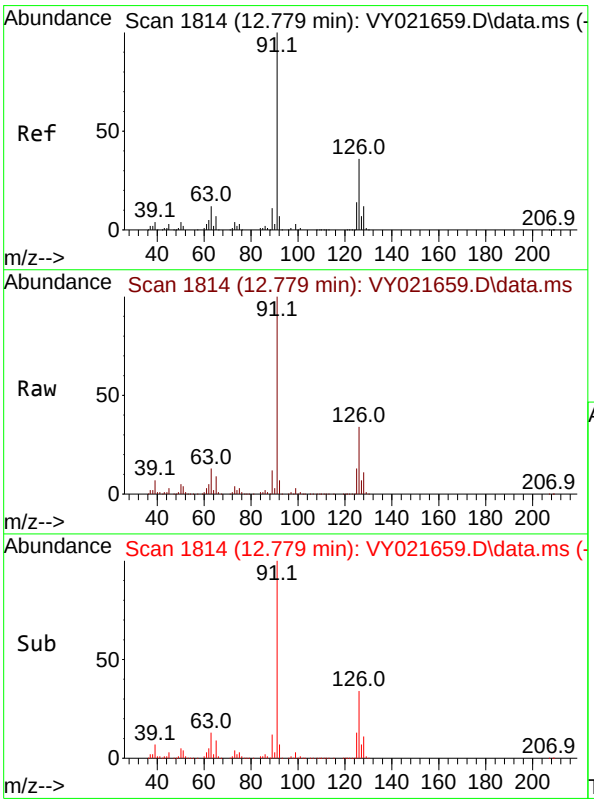
Ion	Ratio	Lower	Upper
75	100		
53	95.1	76.1	114.1
89	45.3	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

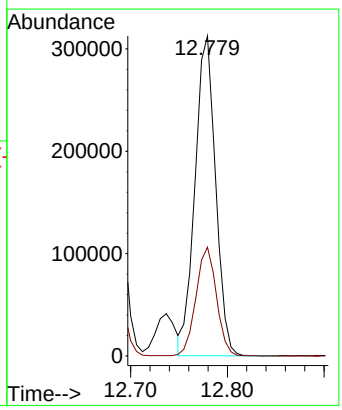
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

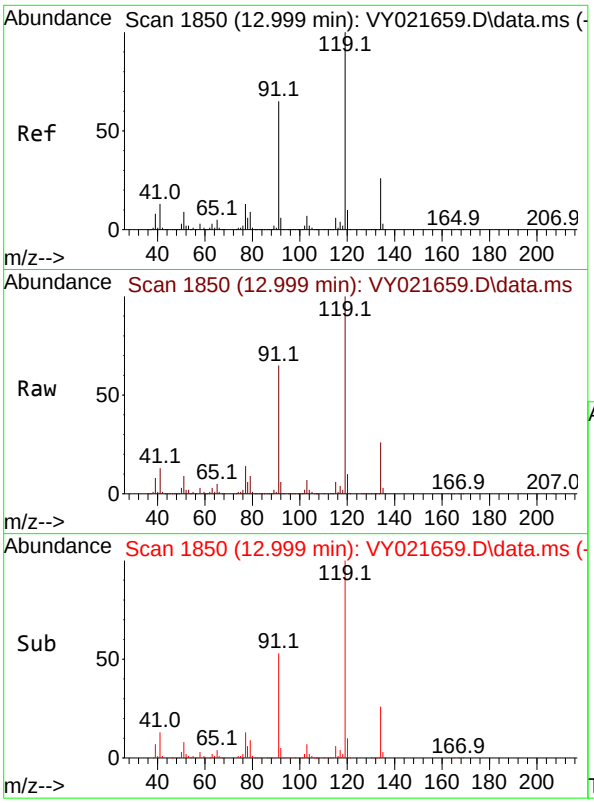


#82
4-Chlorotoluene
Concen: 50.995 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 91 Resp: 463024

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

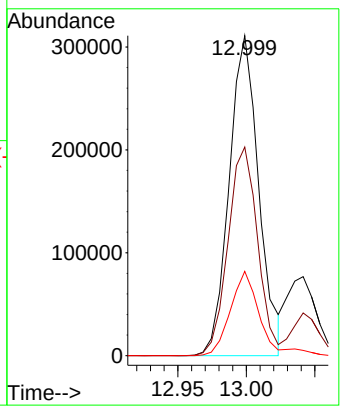




#83
tert-Butylbenzene
Concen: 51.541 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:119 Resp: 46796

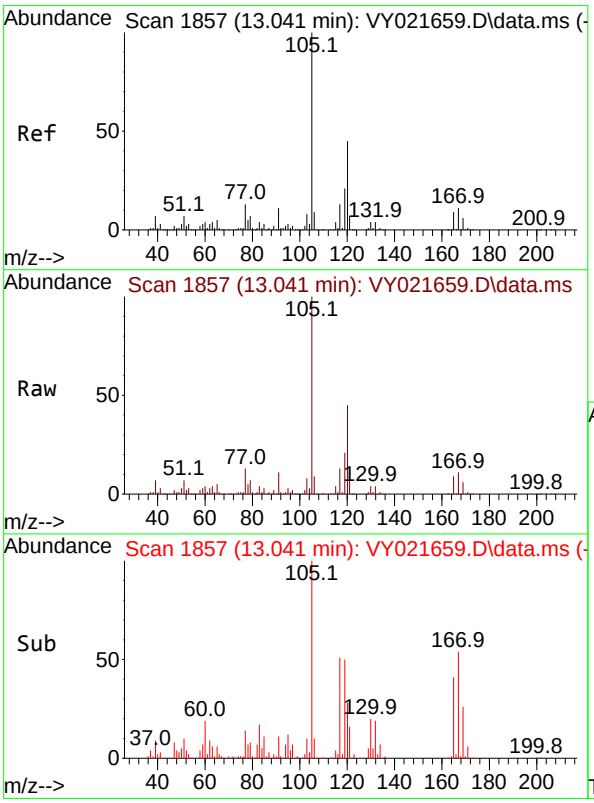
Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.6	97.7
134	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

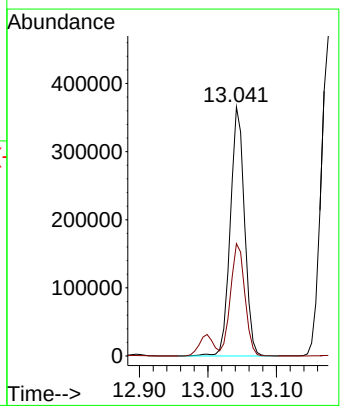
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

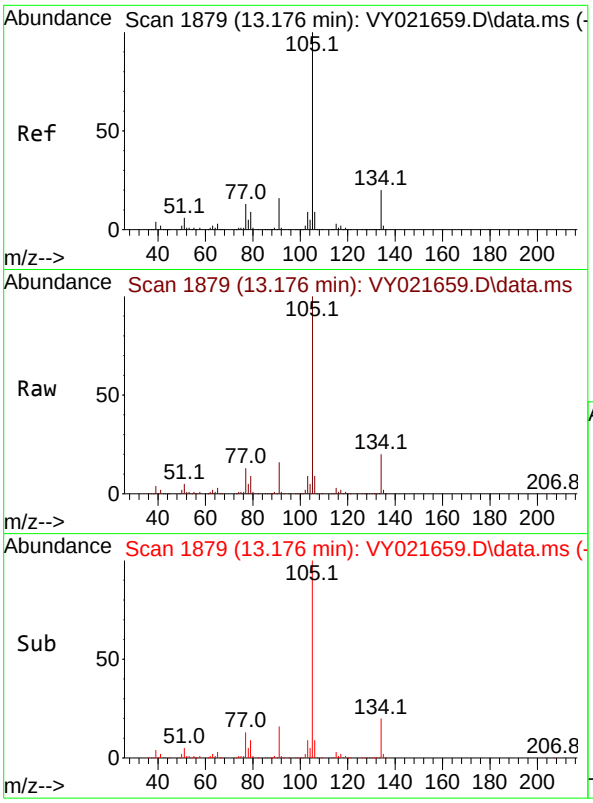


#84
1,2,4-Trimethylbenzene
Concen: 52.248 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:105 Resp: 526387

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.7	68.1

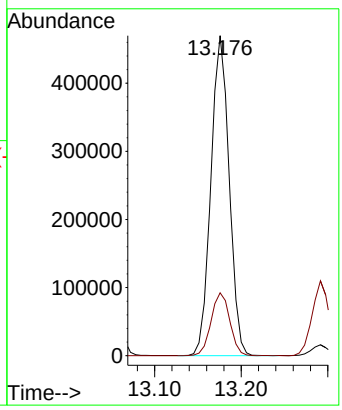




#85
sec-Butylbenzene
Concen: 51.820 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:105 Resp: 68757

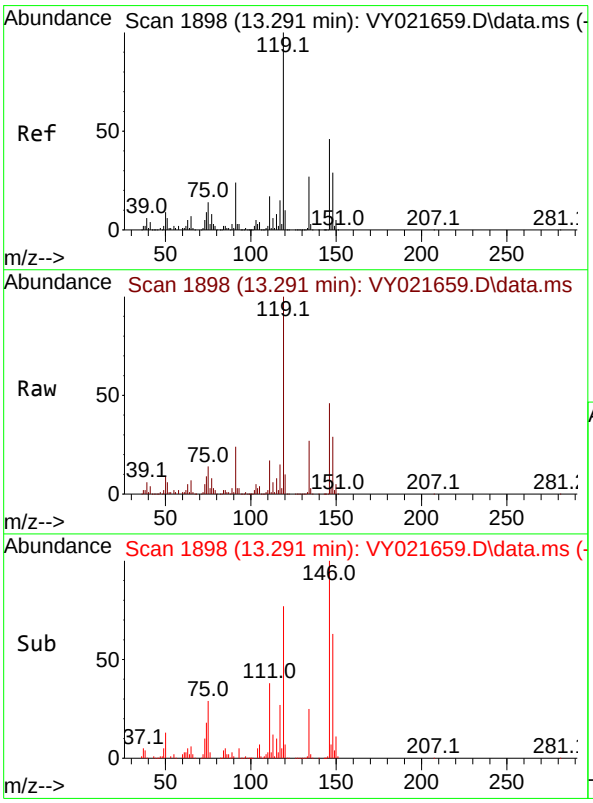
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

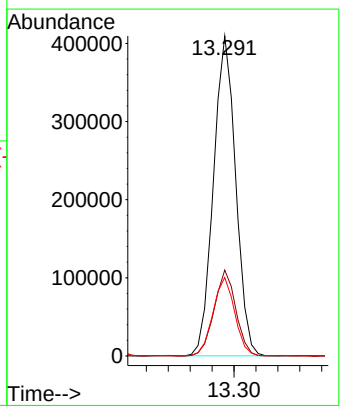
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

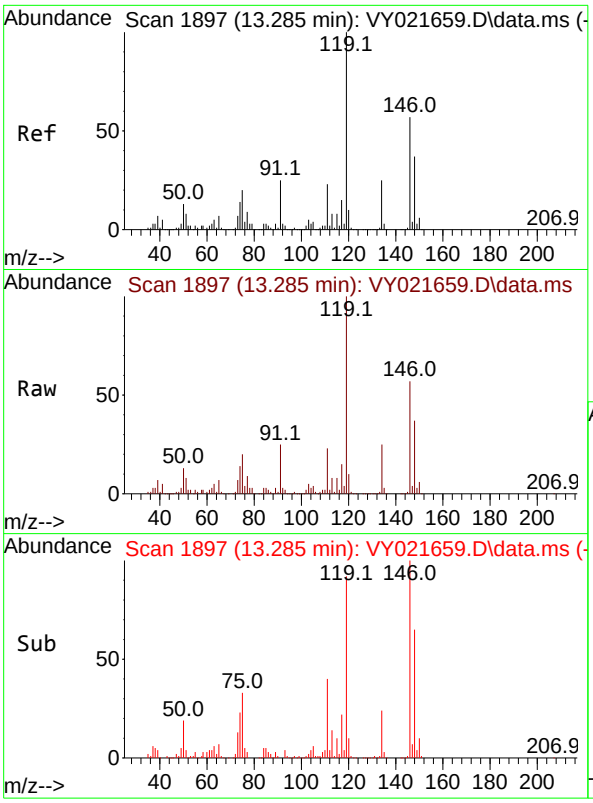


#86
p-Isopropyltoluene
Concen: 52.525 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:119 Resp: 576012

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.5
91	24.0	12.0	36.0

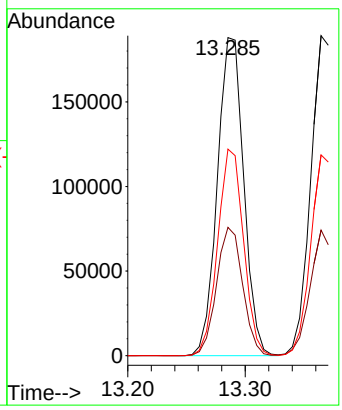




#87
1,3-Dichlorobenzene
Concen: 49.752 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:146 Resp: 29353

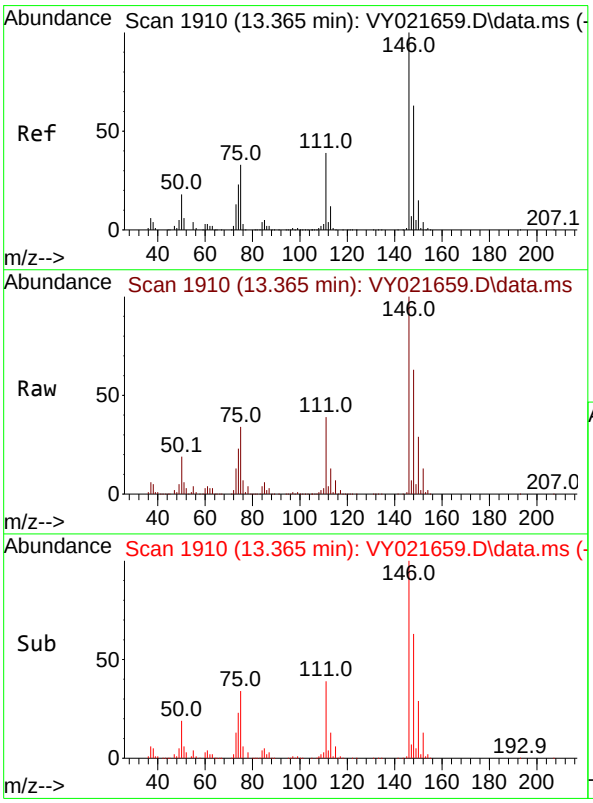
Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	60.0
148	63.6	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

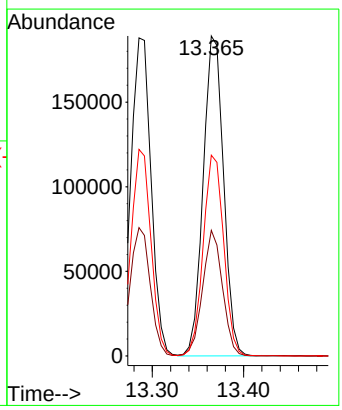
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

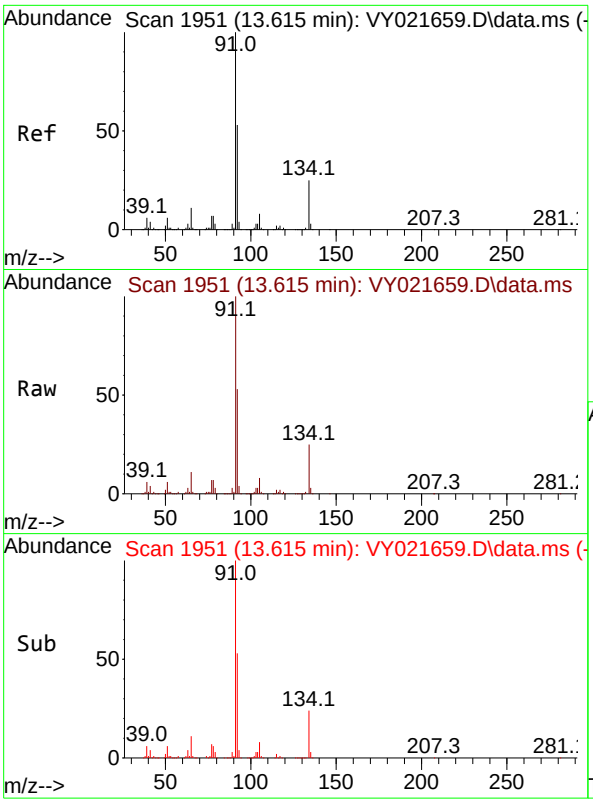


#88
1,4-Dichlorobenzene
Concen: 50.147 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:146 Resp: 292315

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.1
148	63.0	31.5	94.5

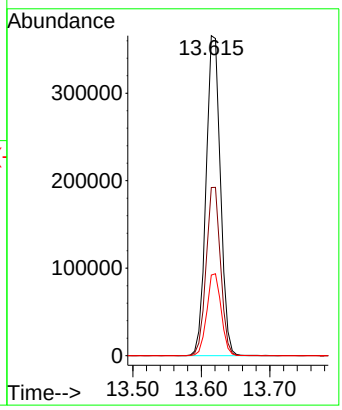




#89
n-Butylbenzene
Concen: 52.544 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 91 Resp: 53289

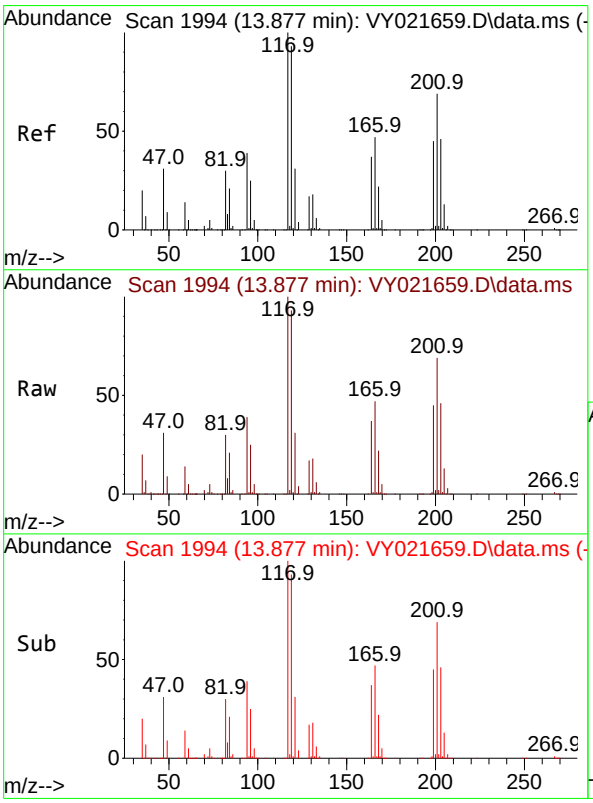
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.4	79.2
134	25.6	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

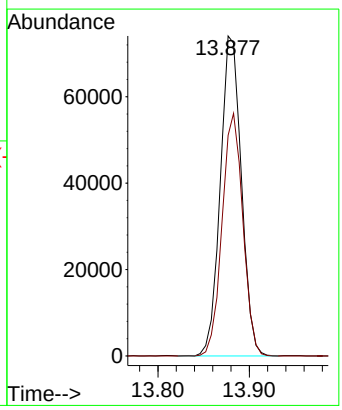
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

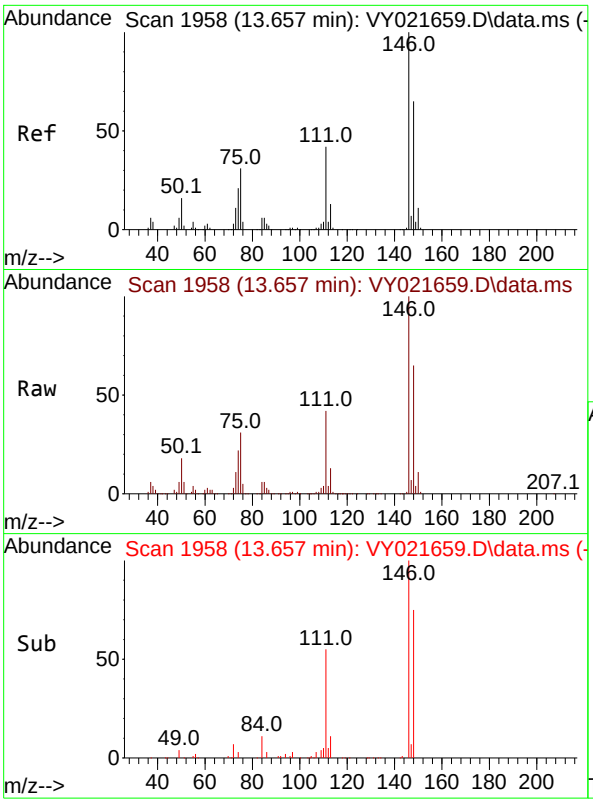


#90
Hexachloroethane
Concen: 49.396 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:117 Resp: 118708

Ion	Ratio	Lower	Upper
117	100		
201	74.7	37.4	112.1

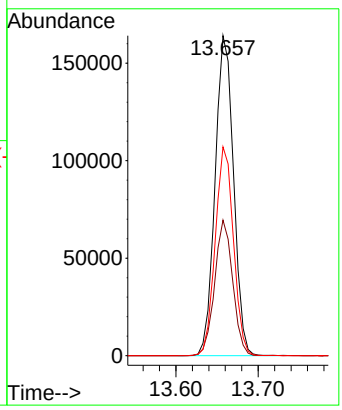




#91
1,2-Dichlorobenzene
Concen: 49.821 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:146 Resp: 25587

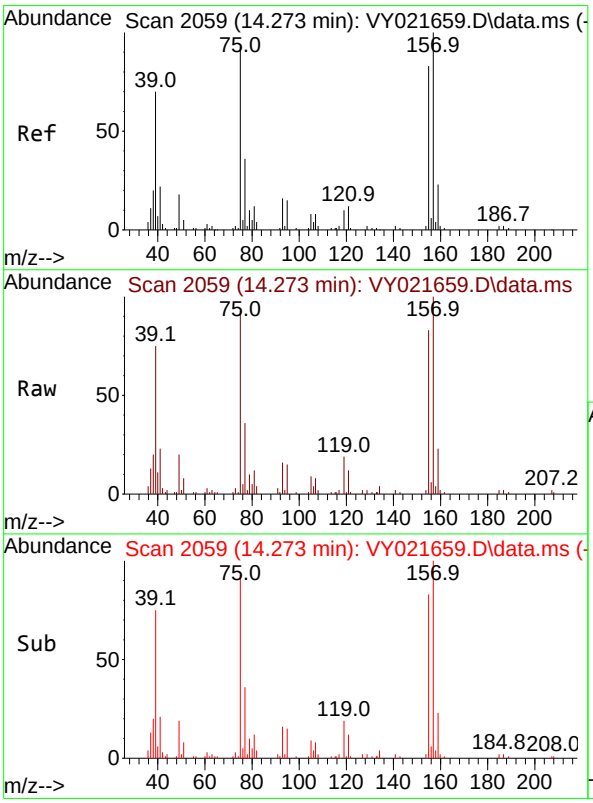
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.7	62.1
148	64.6	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

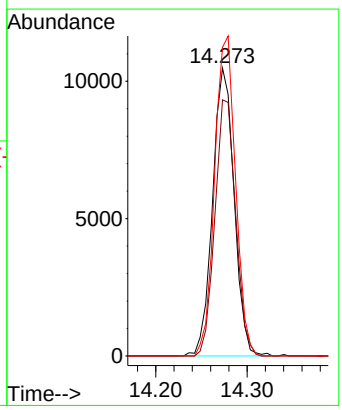
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

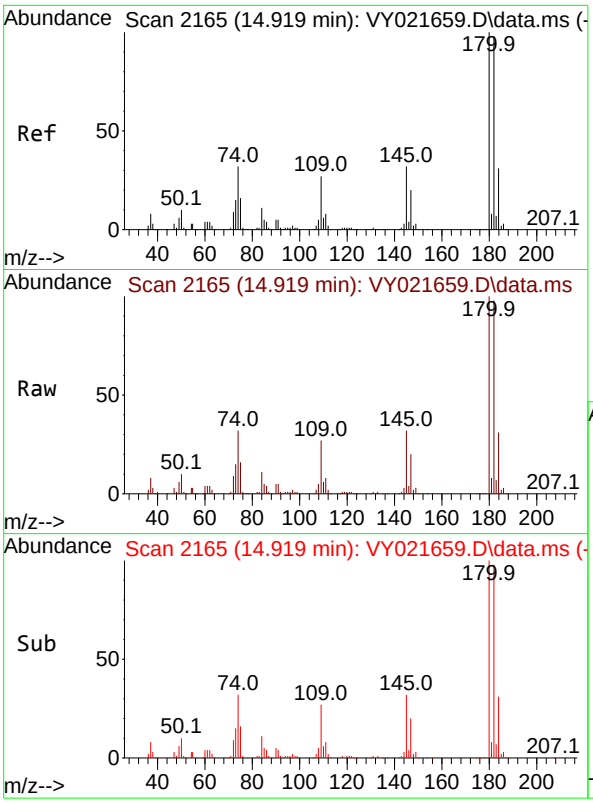


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.268 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion: 75 Resp: 17123

Ion	Ratio	Lower	Upper
75	100		
155	85.9	43.0	128.8
157	108.0	54.0	162.0





#93
1,2,4-Trichlorobenzene
Concen: 52.935 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

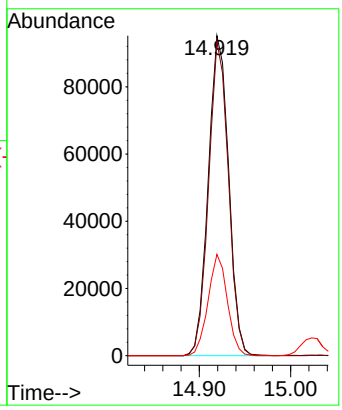
Tgt Ion:180 Resp: 14743

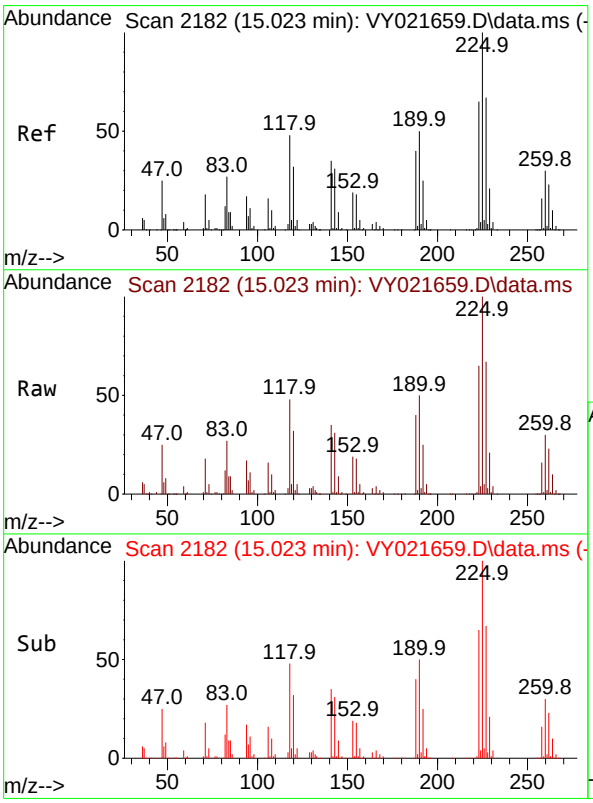
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.6
145	29.9	14.9	44.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

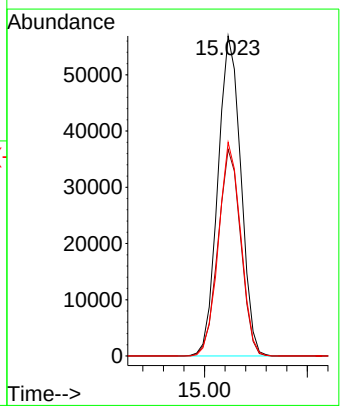


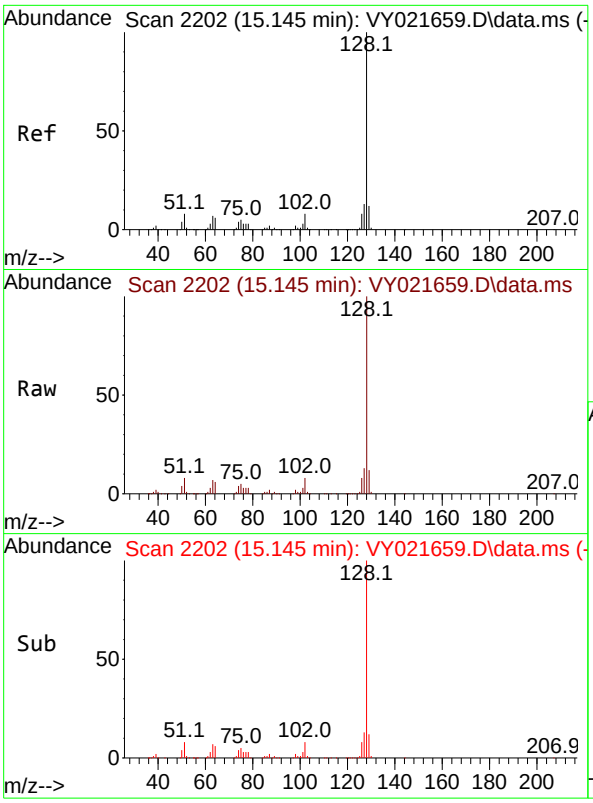


#94
Hexachlorobutadiene
Concen: 50.642 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:225 Resp: 88090

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.9	95.7
227	64.7	32.4	97.0

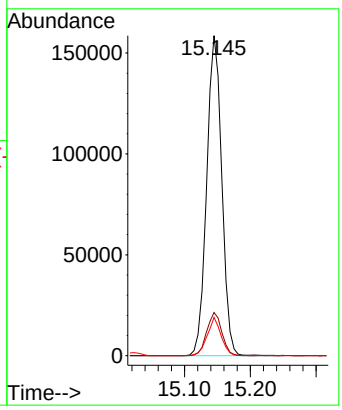




#95
Naphthalene
Concen: 54.848 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:128 Resp: 25320

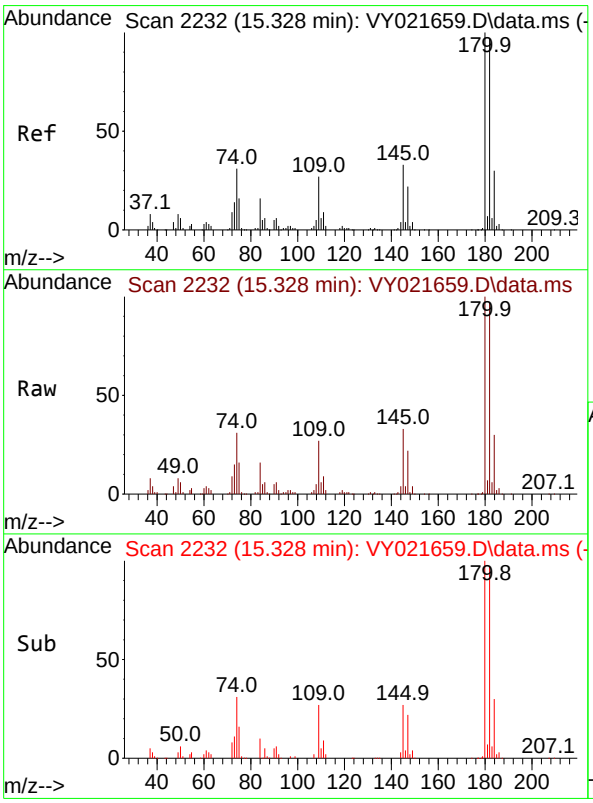
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.8	16.2
129	11.0	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

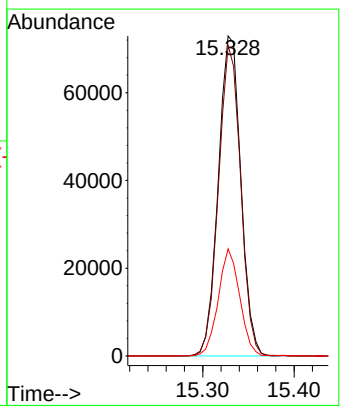
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.754 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021659.D
Acq: 27 Mar 2025 11:16

Tgt Ion:180 Resp: 125294

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.5	142.5
145	31.8	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021660.D
Acq On : 27 Mar 2025 11:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	248041	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	380682	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	339201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	168901	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	252968	94.129	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 188.260%#			
35) Dibromofluoromethane	7.634	113	247380	100.177	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 200.360%#			
50) Toluene-d8	10.103	98	953346	101.480	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 202.960%#			
62) 4-Bromofluorobenzene	12.408	95	322469	101.481	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 202.960%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	240555	93.569	ug/l	100
3) Chloromethane	2.068	50	333313	92.202	ug/l	100
4) Vinyl Chloride	2.202	62	375853	91.934	ug/l	100
5) Bromomethane	2.586	94	245057	87.885	ug/l	97
6) Chloroethane	2.733	64	242934	90.810	ug/l	97
7) Trichlorofluoromethane	3.056	101	479554	91.568	ug/l	97
8) Diethyl Ether	3.452	74	127148	89.276	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	252877	91.550	ug/l	100
10) Methyl Iodide	4.001	142	313241	103.371	ug/l	99
11) Tert butyl alcohol	4.854	59	72464	415.131	ug/l	97
12) 1,1-Dichloroethene	3.787	96	245873	94.504	ug/l	98
13) Acrolein	3.647	56	145527	456.581	ug/l	99
14) Allyl chloride	4.379	41	403587	97.292	ug/l	99
15) Acrylonitrile	5.061	53	269979	454.005	ug/l	99
16) Acetone	3.867	43	215263	391.376	ug/l	98
17) Carbon Disulfide	4.104	76	805100	93.952	ug/l	98
18) Methyl Acetate	4.379	43	120373	88.304	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	622864	96.160	ug/l	100
20) Methylene Chloride	4.616	84	257053	99.325	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	273524	95.485	ug/l	98
22) Diisopropyl ether	6.019	45	855783	98.345	ug/l	97
23) Vinyl Acetate	5.958	43	2490861	489.304	ug/l	99
24) 1,1-Dichloroethane	5.915	63	492205	94.595	ug/l	99
25) 2-Butanone	6.890	43	348017	442.999	ug/l	99
26) 2,2-Dichloropropane	6.884	77	439519	94.960	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	312849	97.115	ug/l	100
28) Bromochloromethane	7.244	49	208162	94.860	ug/l	99
29) Tetrahydrofuran	7.262	42	231439	457.752	ug/l	98
30) Chloroform	7.421	83	509194	94.087	ug/l	98
31) Cyclohexane	7.701	56	439720	92.706	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	460680	94.182	ug/l	99
36) 1,1-Dichloropropene	7.835	75	368741	98.035	ug/l	99
37) Ethyl Acetate	6.982	43	160700	90.529	ug/l	100
38) Carbon Tetrachloride	7.817	117	416779	96.746	ug/l	99
39) Methylcyclohexane	9.110	83	465789	103.663	ug/l	98
40) Benzene	8.079	78	1100425	97.692	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021660.D
Acq On : 27 Mar 2025 11:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 02:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	86888	92.176	ug/l	#	100
42) 1,2-Dichloroethane	8.158	62	298349	93.952	ug/l		100
43) Isopropyl Acetate	8.195	43	320092	95.153	ug/l		99
44) Trichloroethene	8.866	130	278937	97.190	ug/l		99
45) 1,2-Dichloropropane	9.140	63	259066	97.163	ug/l		99
46) Dibromomethane	9.231	93	145186	94.482	ug/l		97
47) Bromodichloromethane	9.420	83	386864	97.159	ug/l		99
48) Methyl methacrylate	9.219	41	157046	101.718	ug/l		98
49) 1,4-Dioxane	9.225	88	31647	1922.485	ug/l		92
51) 4-Methyl-2-Pentanone	10.000	43	846126	483.331	ug/l		100
52) Toluene	10.170	92	706197	100.486	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	361283	102.153	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	418099	100.208	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	187977	95.058	ug/l		97
56) Ethyl methacrylate	10.439	69	271036	107.339	ug/l		98
57) 1,3-Dichloropropane	10.719	76	329063	96.352	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	657953	534.142	ug/l		100
59) 2-Hexanone	10.762	43	565086	484.686	ug/l		99
60) Dibromochloromethane	10.908	129	265151	98.207	ug/l		100
61) 1,2-Dibromoethane	11.012	107	177158	95.501	ug/l		98
64) Tetrachloroethene	10.646	164	279279	90.401	ug/l		98
65) Chlorobenzene	11.438	112	757197	97.381	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	271119	98.275	ug/l		100
67) Ethyl Benzene	11.518	91	1372249	102.918	ug/l		100
68) m/p-Xylenes	11.627	106	1050156	205.681	ug/l		99
69) o-Xylene	11.957	106	491895	104.369	ug/l		98
70) Styrene	11.969	104	833734	106.098	ug/l		99
71) Bromoform	12.133	173	152683	97.024	ug/l		100
73) Isopropylbenzene	12.255	105	1298221	103.486	ug/l		100
74) N-amyl acetate	12.072	43	303328	103.027	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	209094	92.706	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	152979m	91.372	ug/l		
77) Bromobenzene	12.530	156	299163	99.323	ug/l		98
78) n-propylbenzene	12.597	91	1557825	103.290	ug/l		100
79) 2-Chlorotoluene	12.676	91	879334	100.382	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1060963	103.480	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	71448	98.330	ug/l		99
82) 4-Chlorotoluene	12.780	91	910295	99.676	ug/l		99
83) tert-Butylbenzene	12.999	119	956705	104.762	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1052663	103.880	ug/l		100
85) sec-Butylbenzene	13.176	105	1369601	102.624	ug/l		100
86) p-Isopropyltoluene	13.292	119	1163796	105.509	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	583838	98.384	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	565293	96.416	ug/l		99
89) n-Butylbenzene	13.615	91	1069356	104.828	ug/l		100
90) Hexachloroethane	13.877	117	239487	99.078	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	502045	97.186	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32558	93.136	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	293988	104.943	ug/l		99
94) Hexachlorobutadiene	15.023	225	172909	98.829	ug/l		99
95) Naphthalene	15.145	128	508449	109.498	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	248821	104.158	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021660.D
Acq On : 27 Mar 2025 11:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

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

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

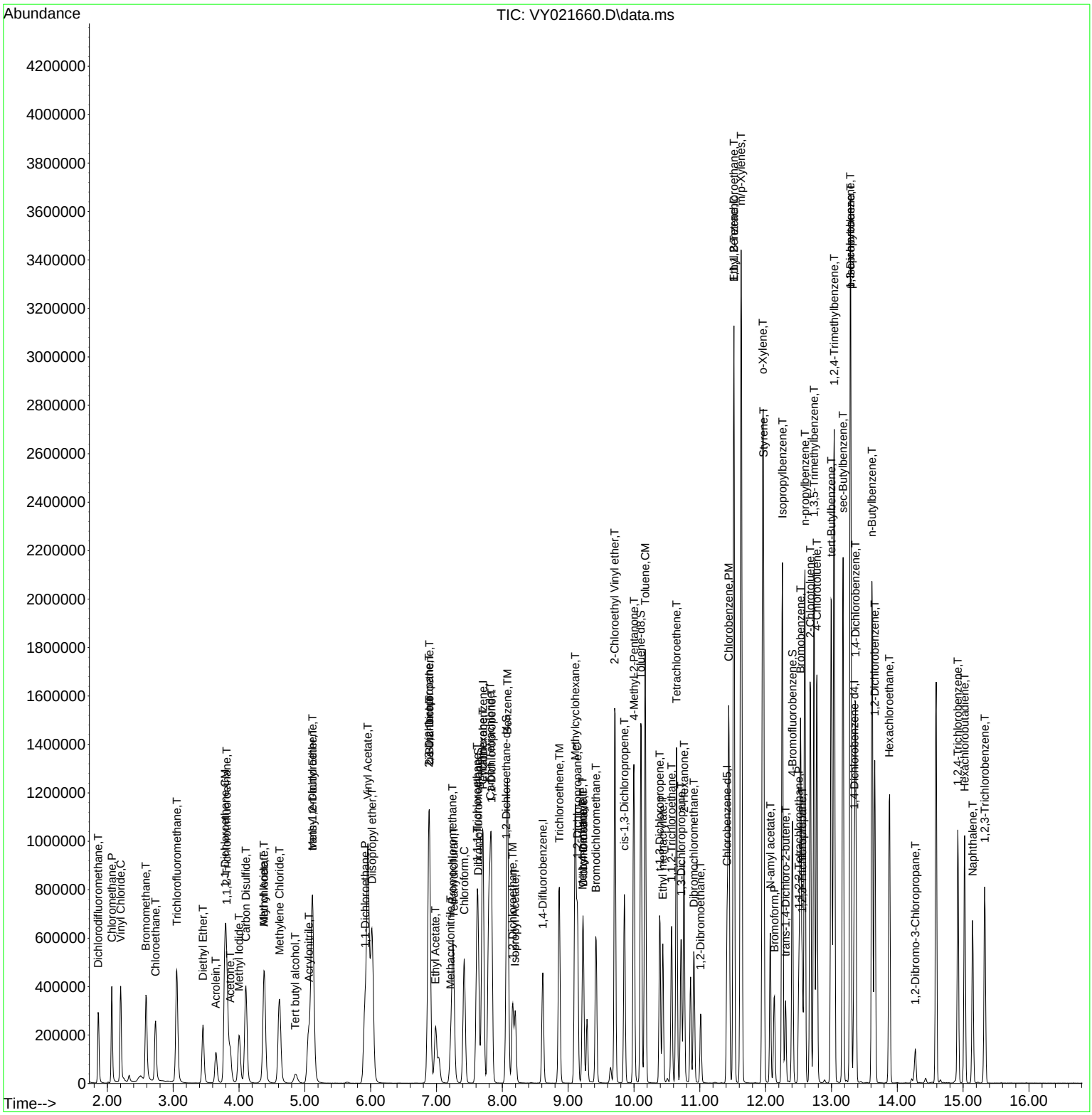
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021660.D
Acq On : 27 Mar 2025 11:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

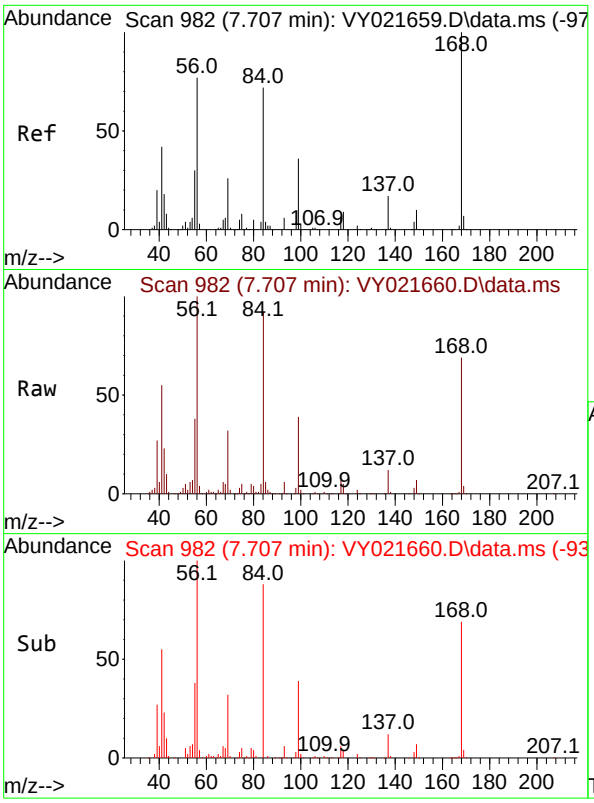
Quant Time: Mar 28 02:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

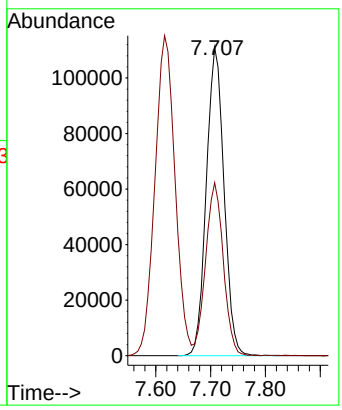




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:168 Resp: 24804

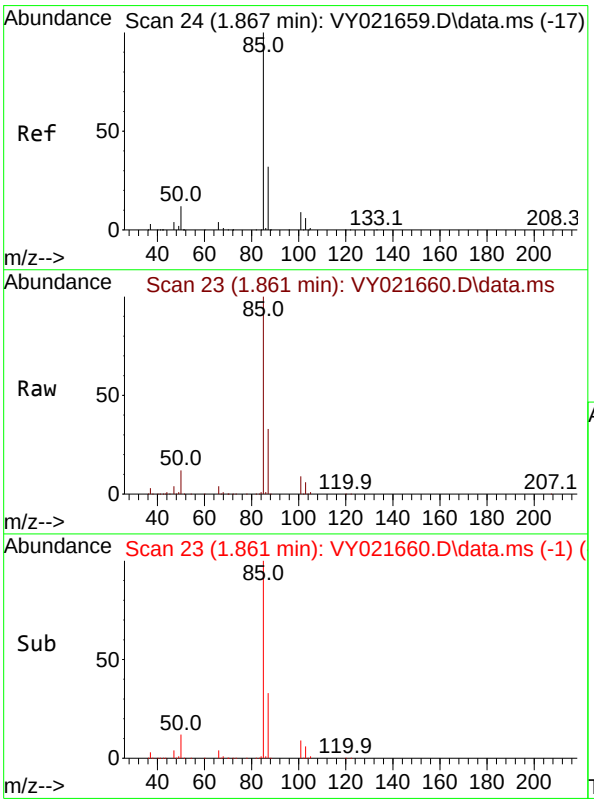
Ion	Ratio	Lower	Upper
168	100		
99	56.0	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

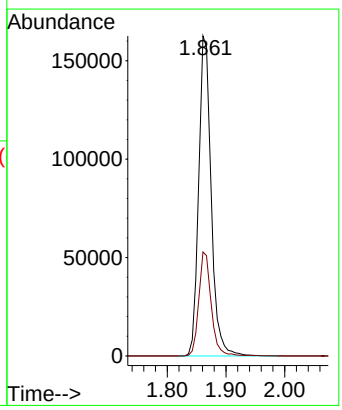
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

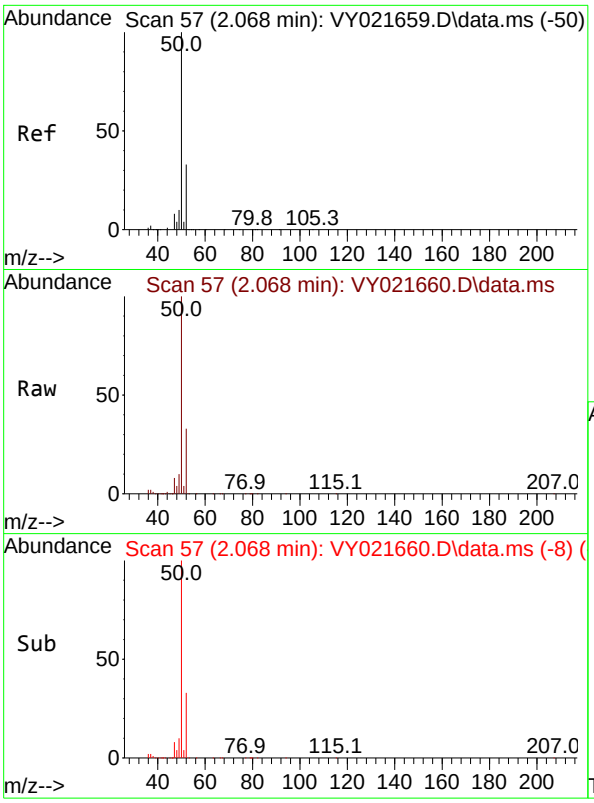


#2
Dichlorodifluoromethane
Concen: 93.569 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 85 Resp: 240555

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.2	48.6

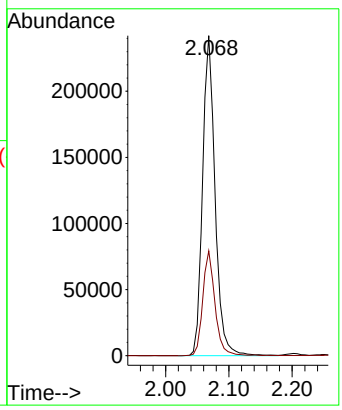




#3
Chloromethane
Concen: 92.202 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 50 Resp: 33331

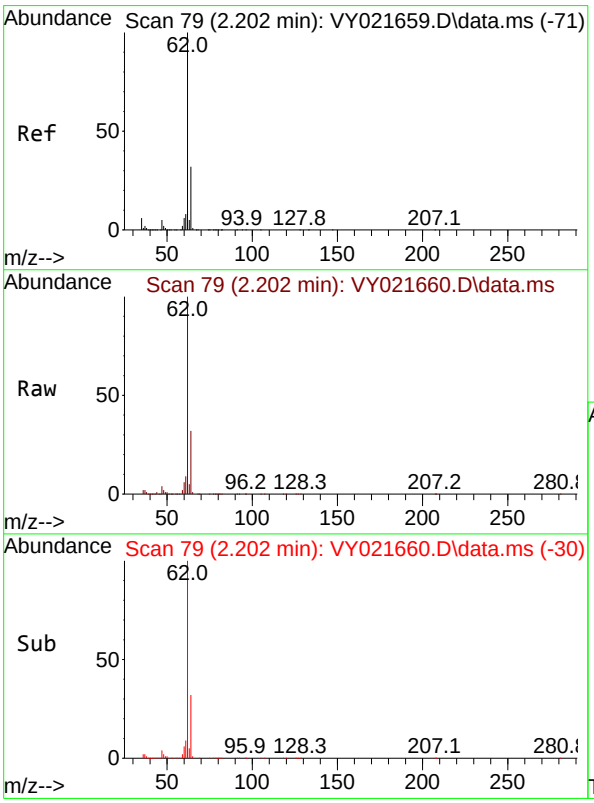
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

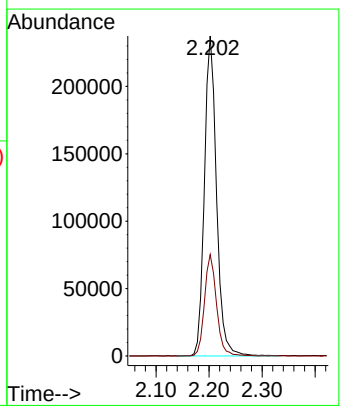
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

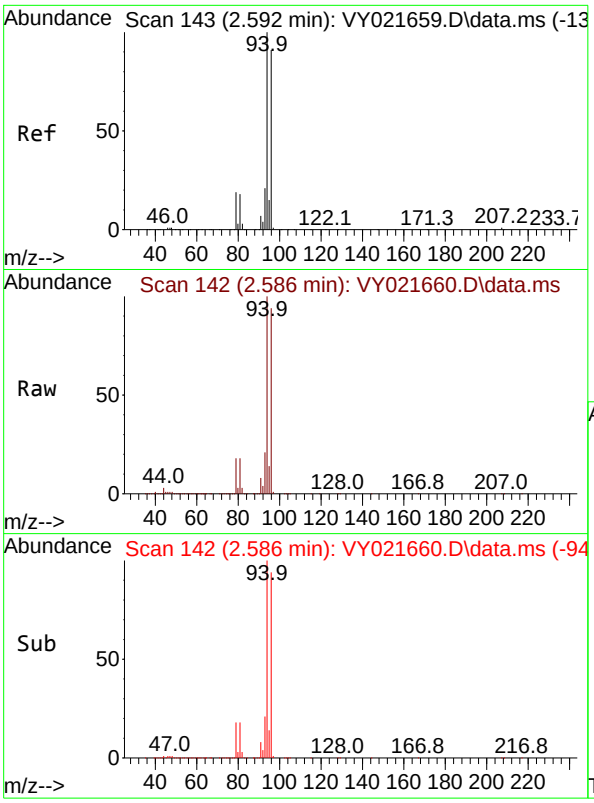


#4
Vinyl Chloride
Concen: 91.934 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 62 Resp: 375853

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.5	38.3

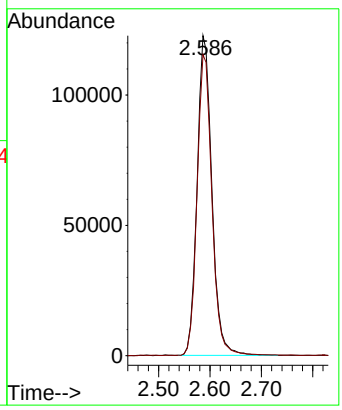




#5
Bromomethane
Concen: 87.885 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 94 Resp: 24505

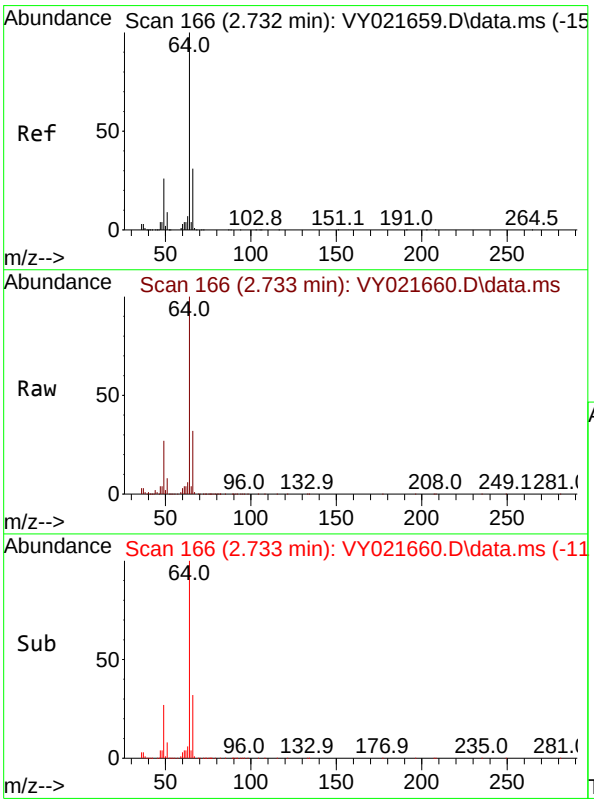
Ion	Ratio	Lower	Upper
94	100		
96	94.0	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

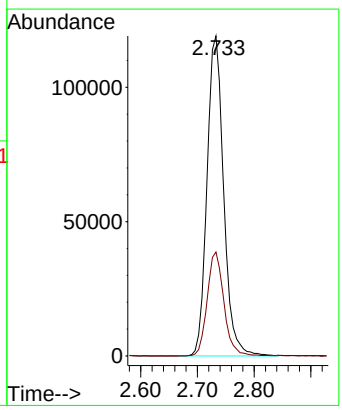
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

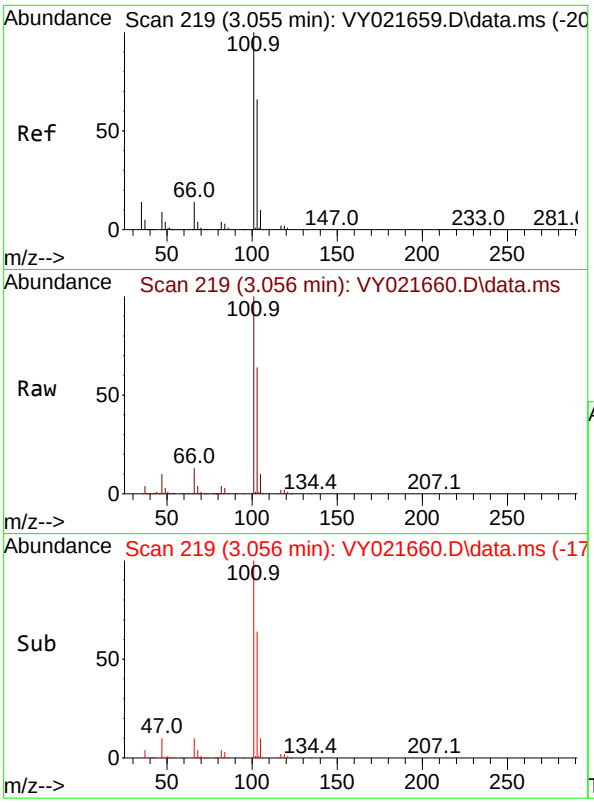


#6
Chloroethane
Concen: 90.810 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 64 Resp: 242934

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.9	37.3

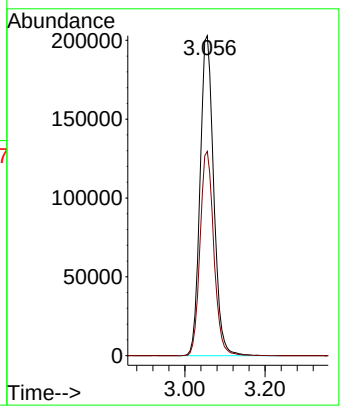




#7
Trichlorofluoromethane
Concen: 91.568 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:101 Resp: 47955

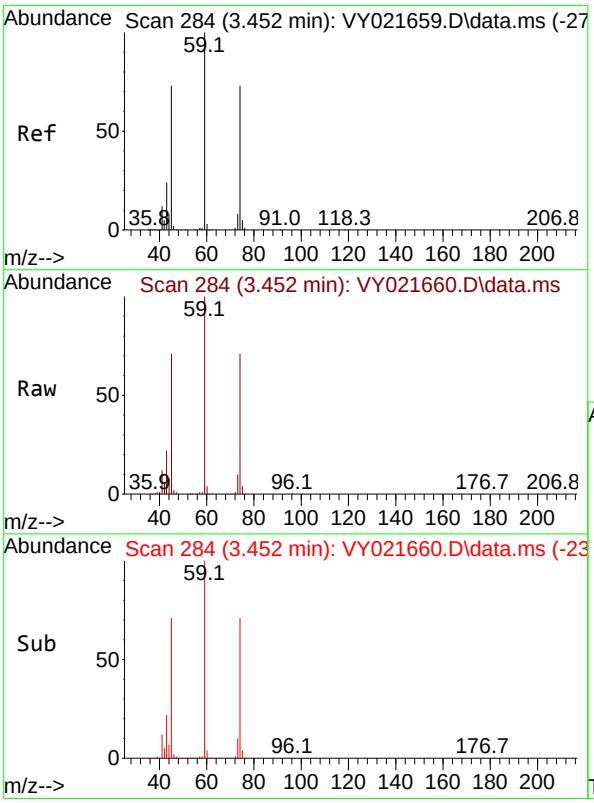
Ion	Ratio	Lower	Upper
101	100		
103	63.9	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

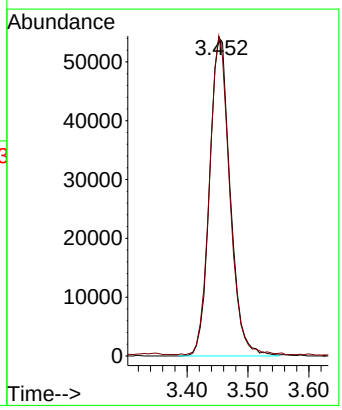
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

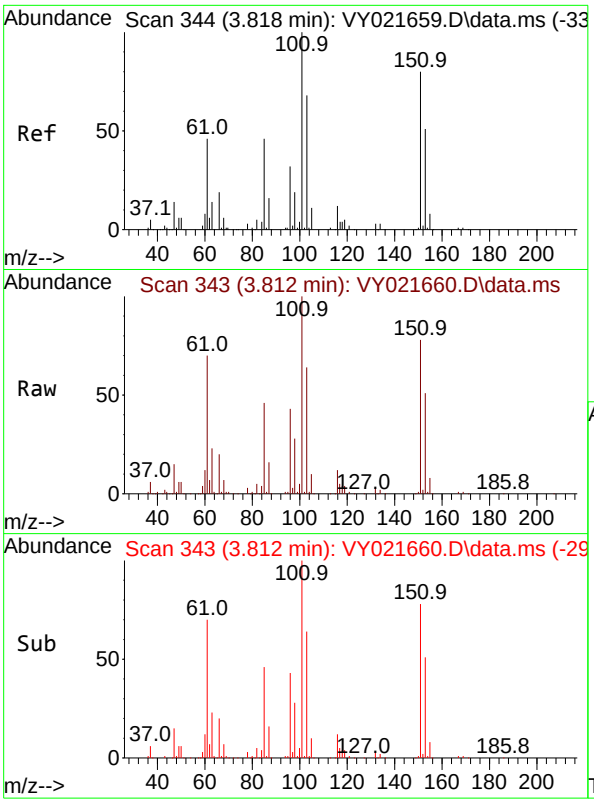


#8
Diethyl Ether
Concen: 89.276 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 74 Resp: 127148

Ion	Ratio	Lower	Upper
74	100		
45	97.6	48.6	145.8

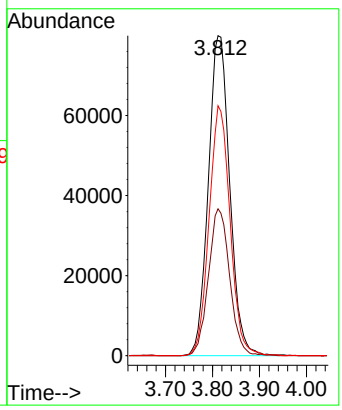




#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.550 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:101 Resp: 25287

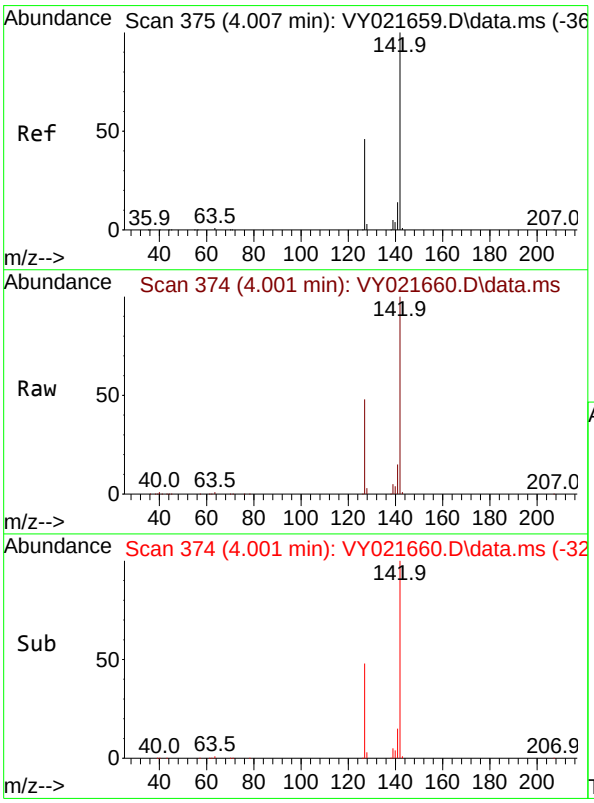
Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.3	54.5
151	76.7	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

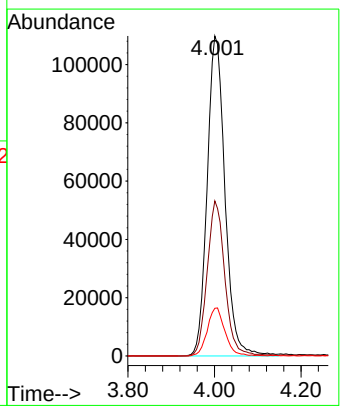
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

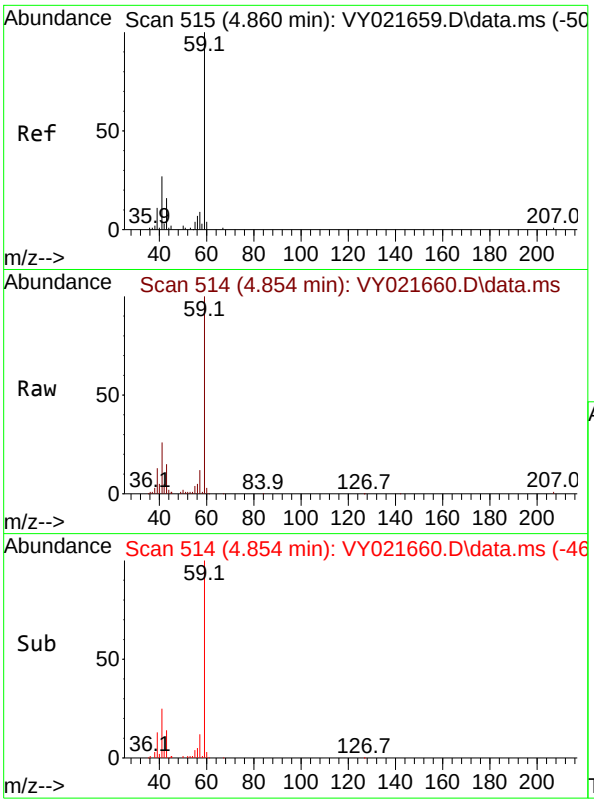


#10
Methyl Iodide
Concen: 103.371 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:142 Resp: 313241

Ion	Ratio	Lower	Upper
142	100		
127	48.2	38.7	58.1
141	15.0	11.5	17.3

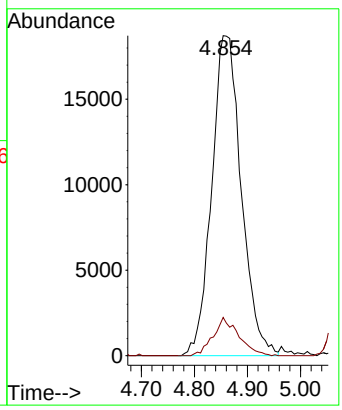




#11
Tert butyl alcohol
Concen: 415.131 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 59 Resp: 7246

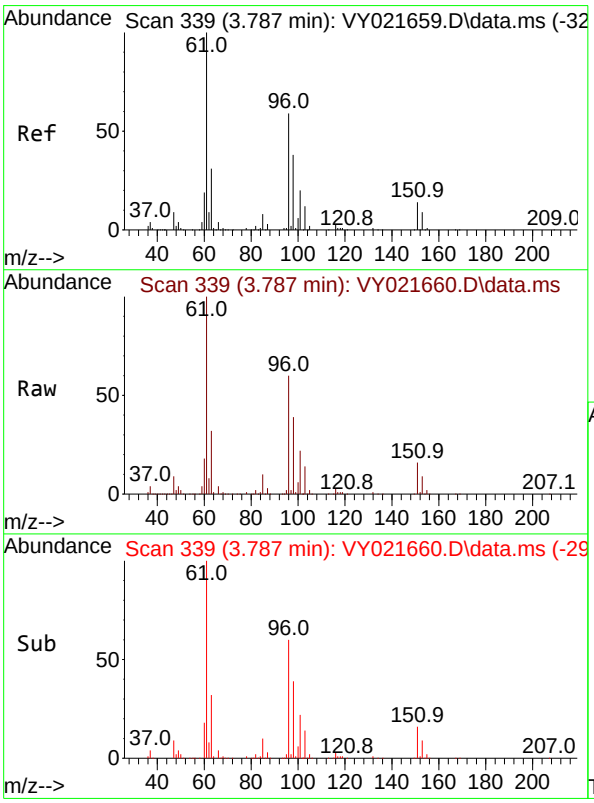
Ion	Ratio	Lower	Upper
59	100		
57	10.4	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

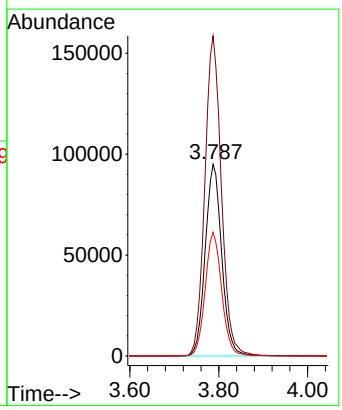
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

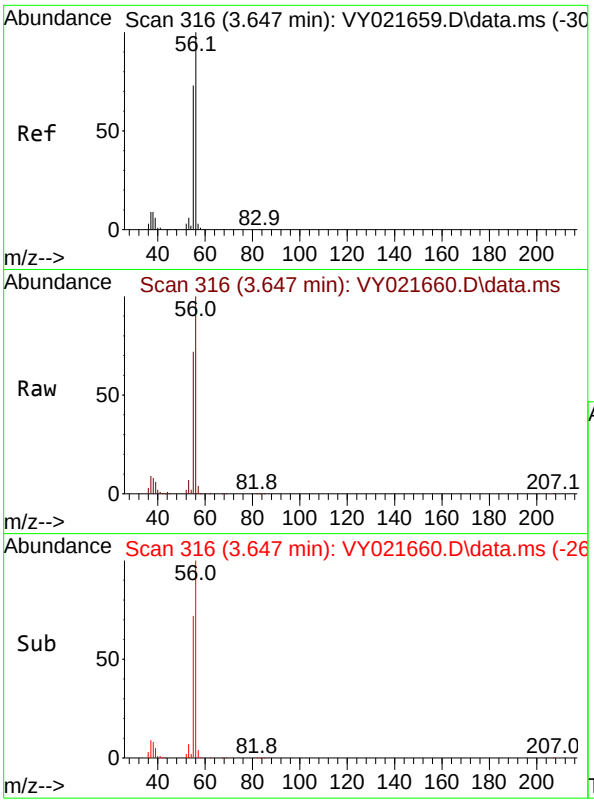


#12
1,1-Dichloroethene
Concen: 94.504 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 96 Resp: 245873

Ion	Ratio	Lower	Upper
96	100		
61	166.9	136.6	204.8
98	64.4	52.3	78.5

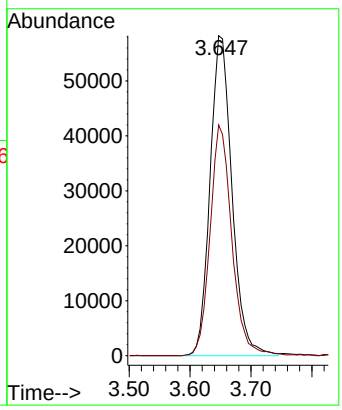




#13
Acrolein
Concen: 456.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 56 Resp: 14552

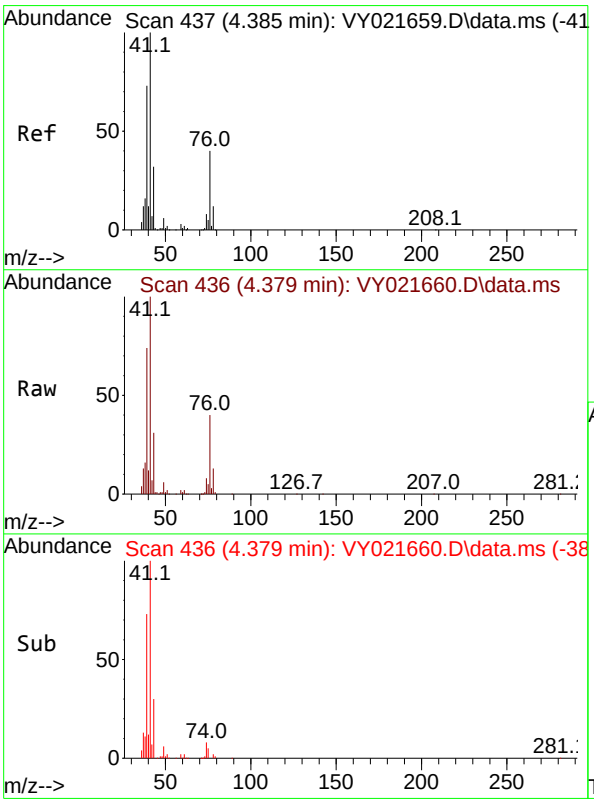
Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

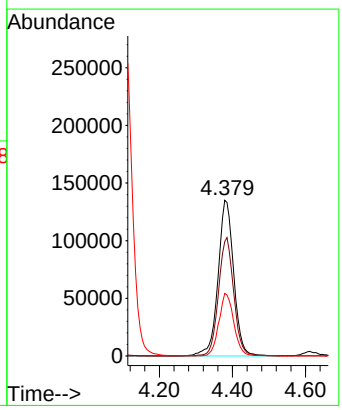
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

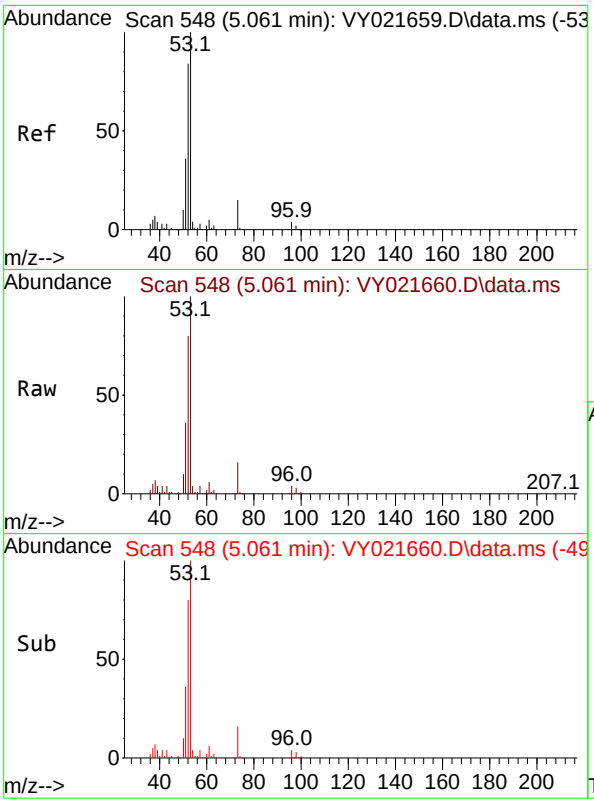


#14
Allyl chloride
Concen: 97.292 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 41 Resp: 403587

Ion	Ratio	Lower	Upper
41	100		
39	74.0	58.6	88.0
76	38.3	30.3	45.5





#15
Acrylonitrile
Concen: 454.005 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

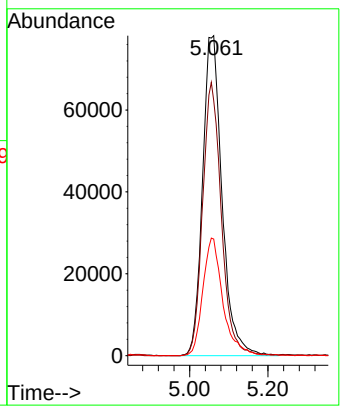
Tgt Ion: 53 Resp: 269979

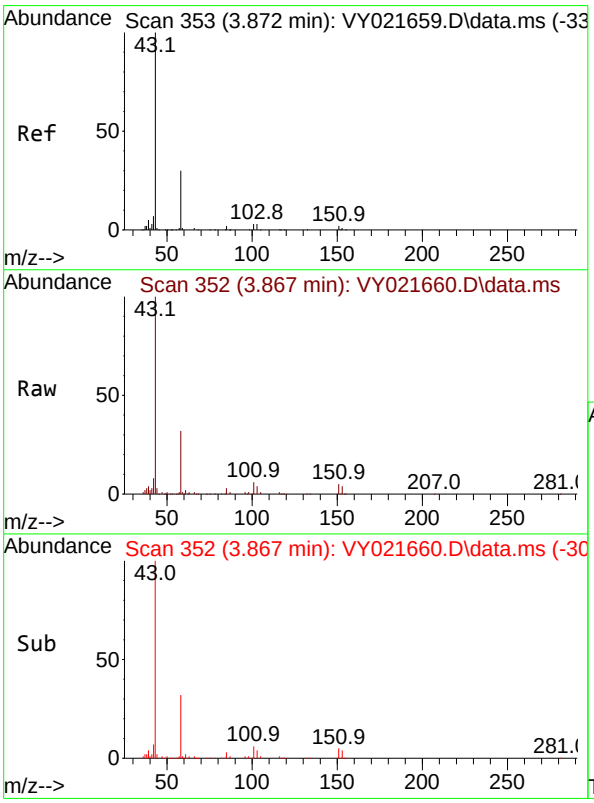
Ion	Ratio	Lower	Upper
53	100		
52	81.8	64.9	97.3
51	37.8	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

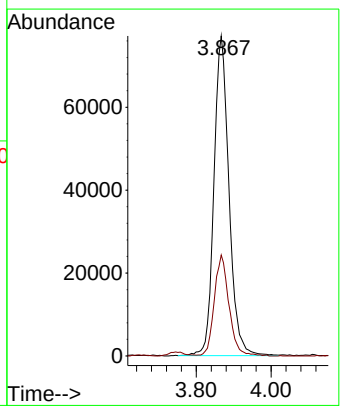


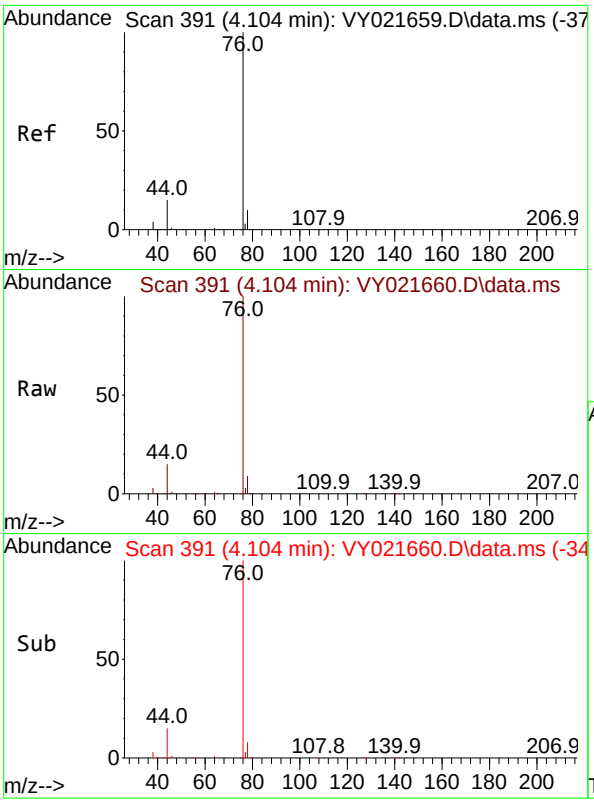


#16
Acetone
Concen: 391.376 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 215263

Ion	Ratio	Lower	Upper
43	100		
58	31.6	24.2	36.4

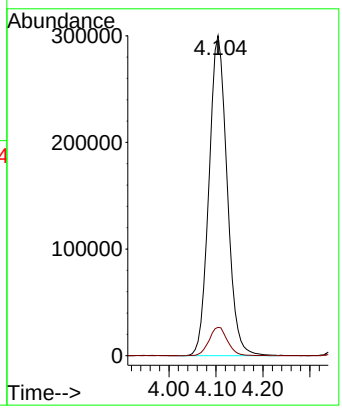




#17
Carbon Disulfide
Concen: 93.952 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 76 Resp: 80510

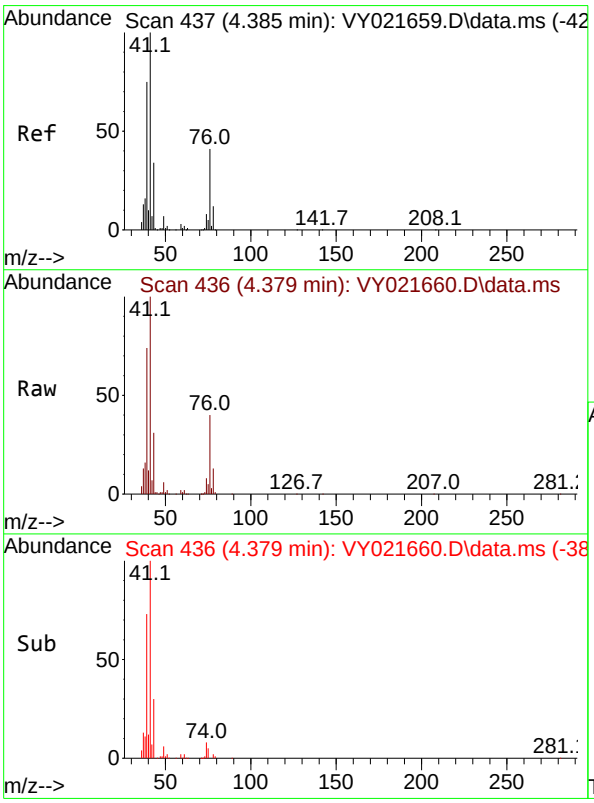
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

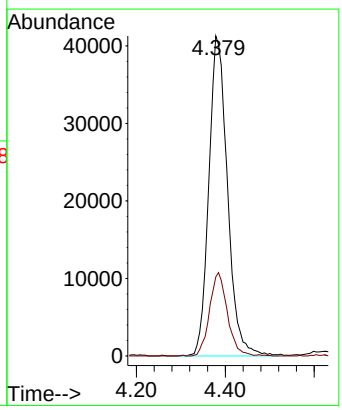
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

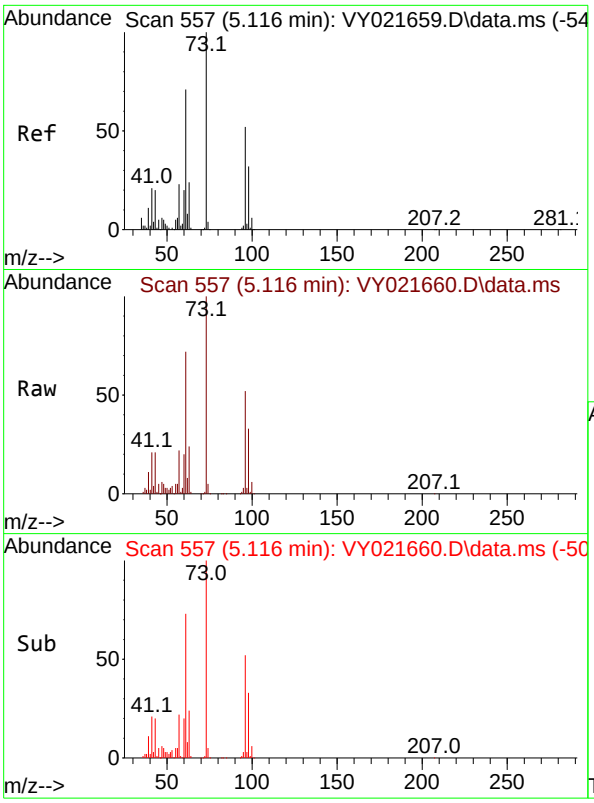


#18
Methyl Acetate
Concen: 88.304 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 120373

Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.1	28.7

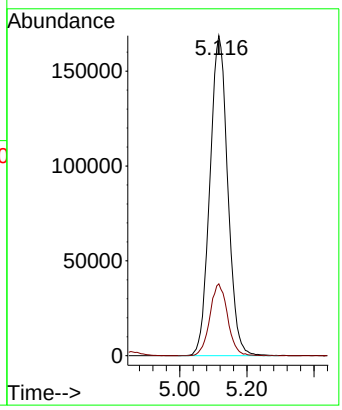




#19
Methyl tert-butyl Ether
Concen: 96.160 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 73 Resp: 62286

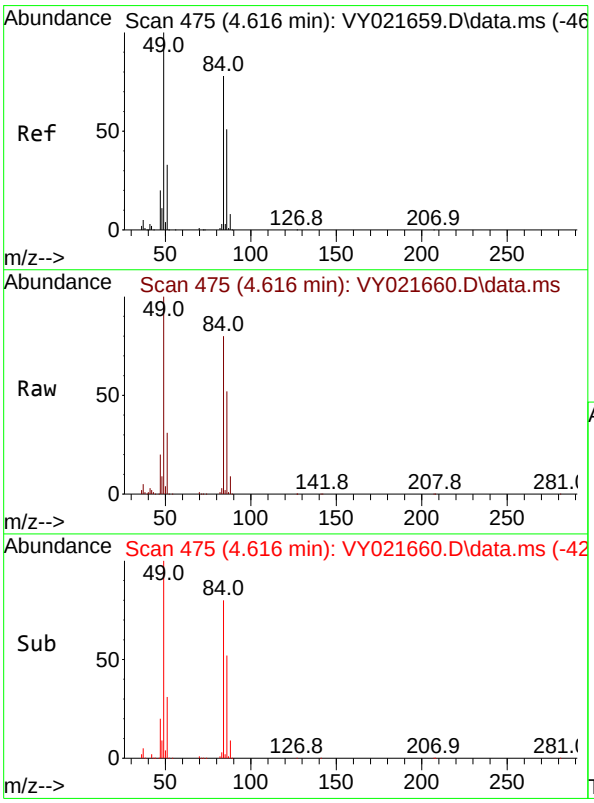
Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

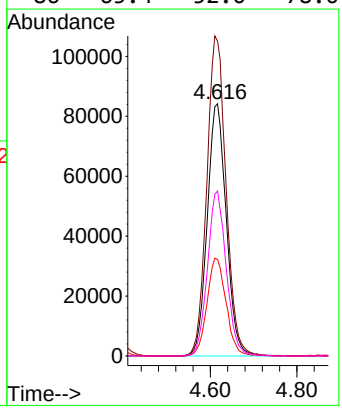
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

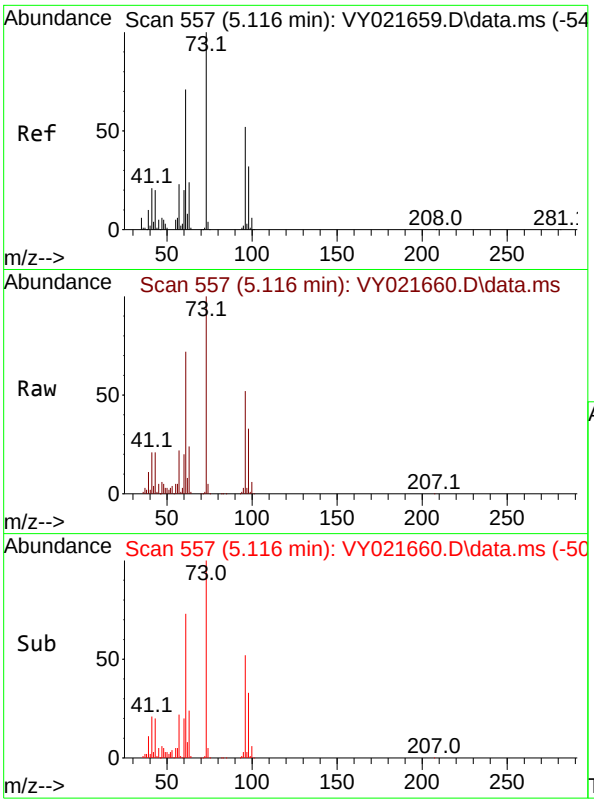


#20
Methylene Chloride
Concen: 99.325 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 84 Resp: 257053

Ion	Ratio	Lower	Upper
84	100		
49	124.8	102.8	154.2
51	38.3	33.5	50.3
86	65.4	52.0	78.0

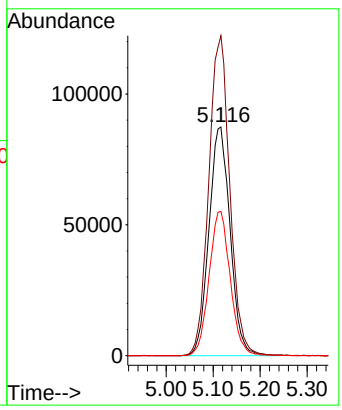




#21
trans-1,2-Dichloroethene
Concen: 95.485 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 96 Resp: 27352

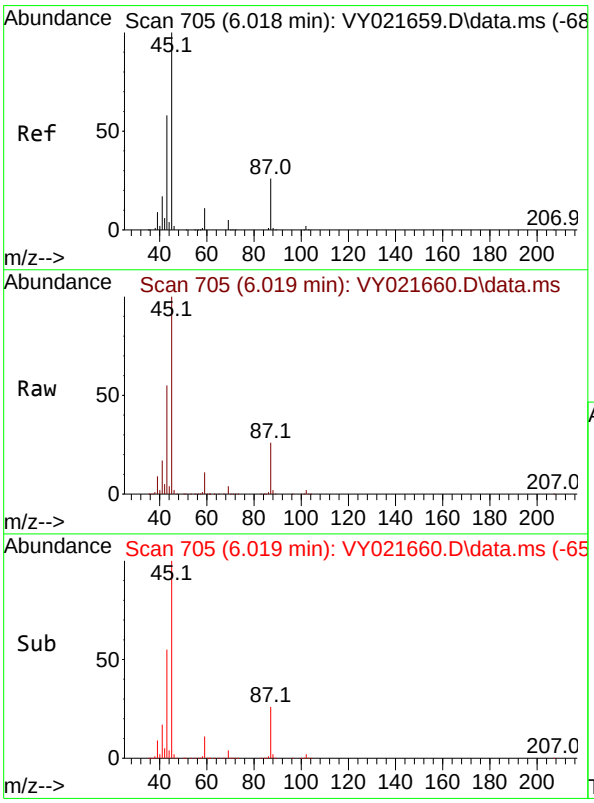
Ion	Ratio	Lower	Upper
96	100		
61	140.0	109.4	164.0
98	63.1	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

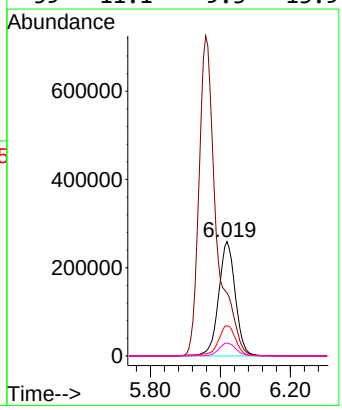
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

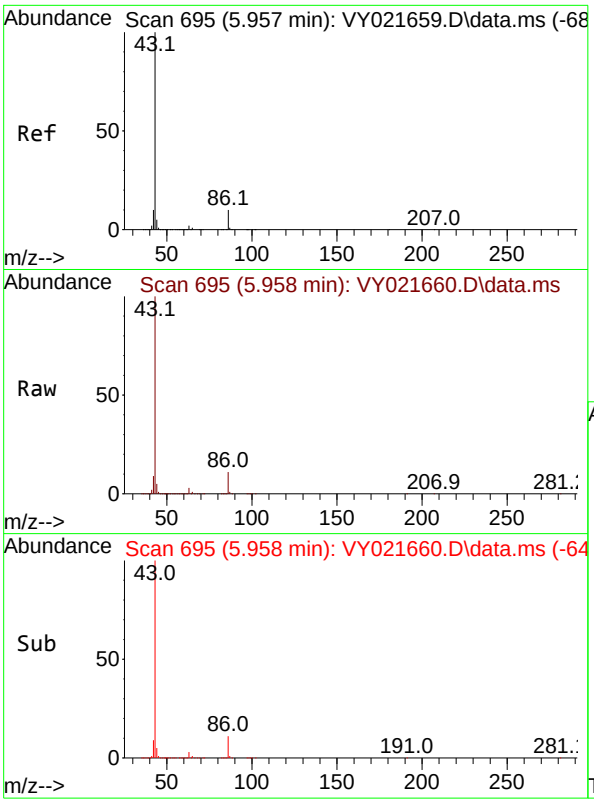


#22
Diisopropyl ether
Concen: 98.345 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 45 Resp: 855783

Ion	Ratio	Lower	Upper
45	100		
43	55.2	46.6	69.8
87	26.5	20.7	31.1
59	11.1	9.3	13.9





#23
Vinyl Acetate
Concen: 489.304 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

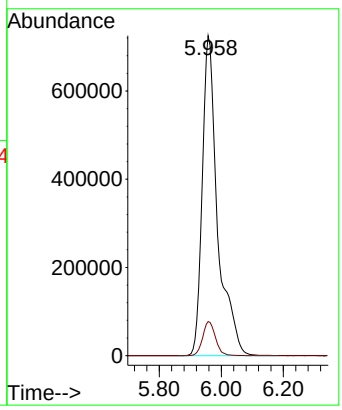
Tgt Ion: 43 Resp: 249086

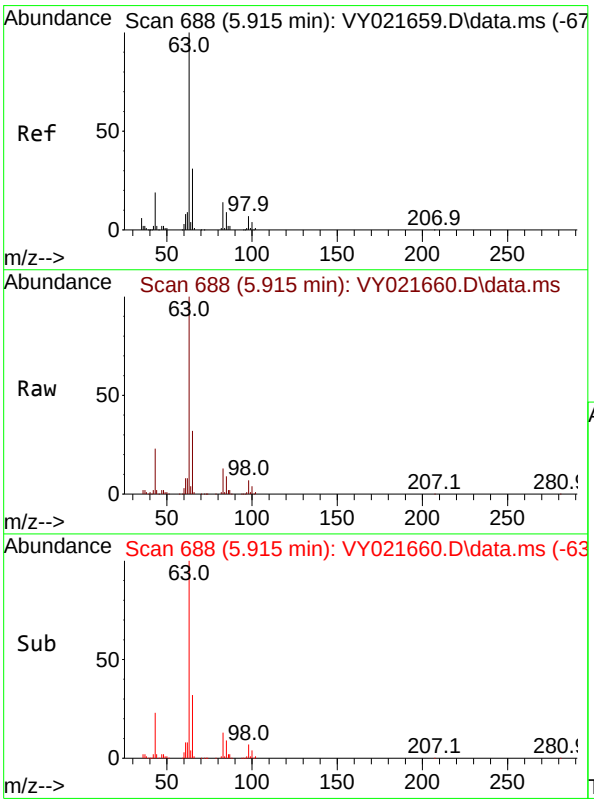
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

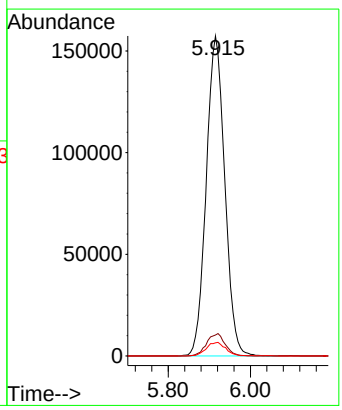


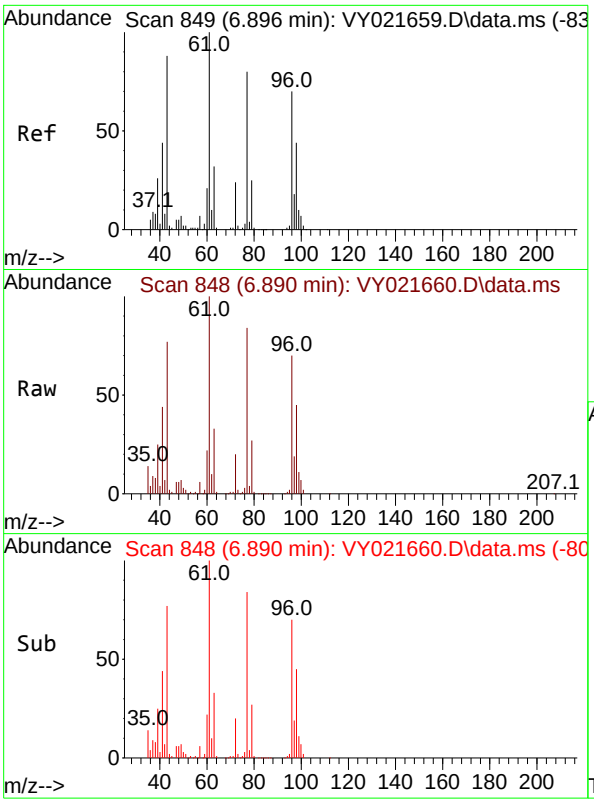


#24
1,1-Dichloroethane
Concen: 94.595 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 63 Resp: 492205

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.5
100	4.1	2.2	6.6

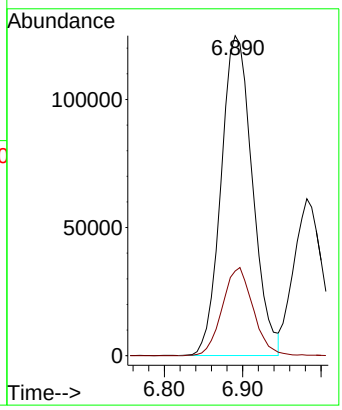




#25
2-Butanone
Concen: 442.999 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 34801

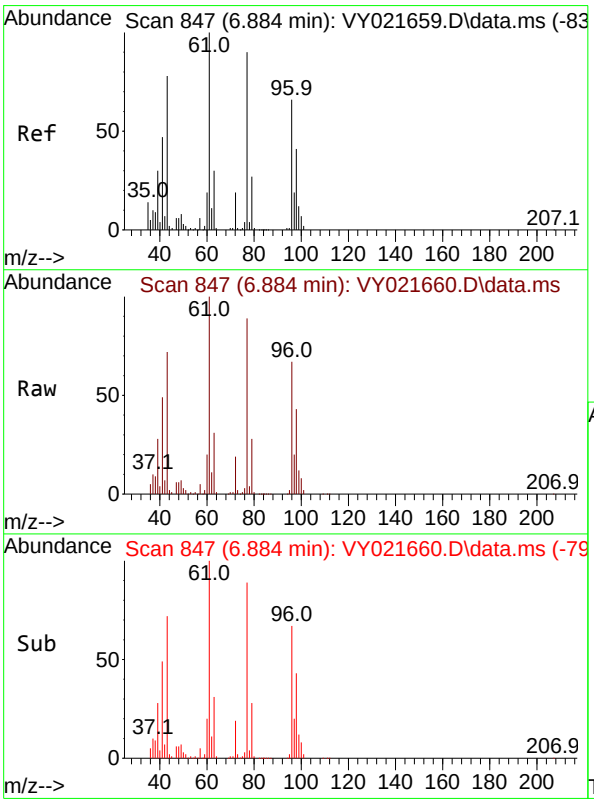
Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.4	32.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

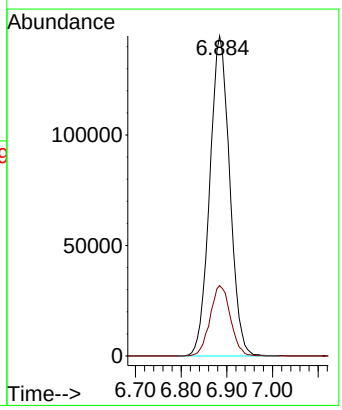
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

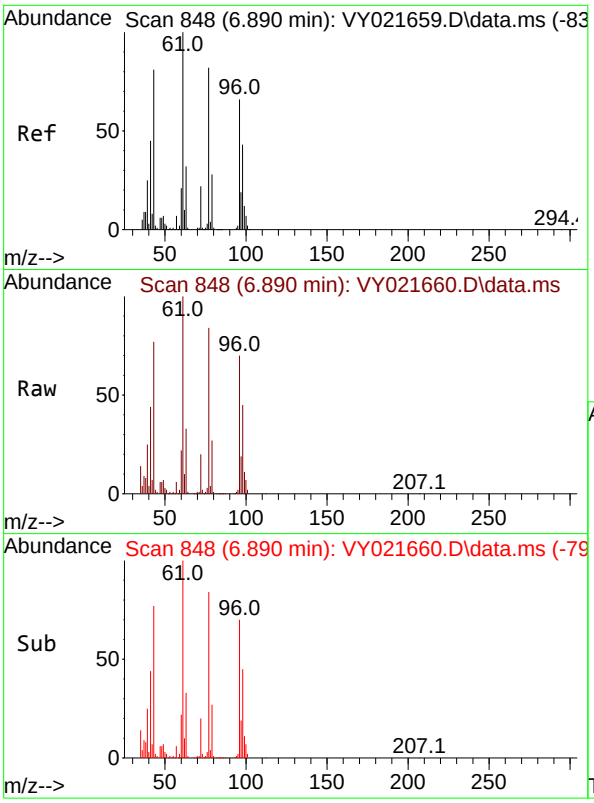


#26
2,2-Dichloropropane
Concen: 94.960 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 77 Resp: 439519

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.1	33.1

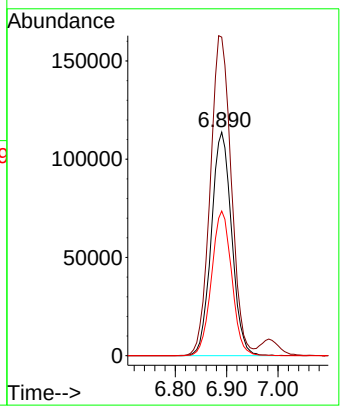




#27
cis-1,2-Dichloroethene
Concen: 97.115 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 96 Resp: 31284

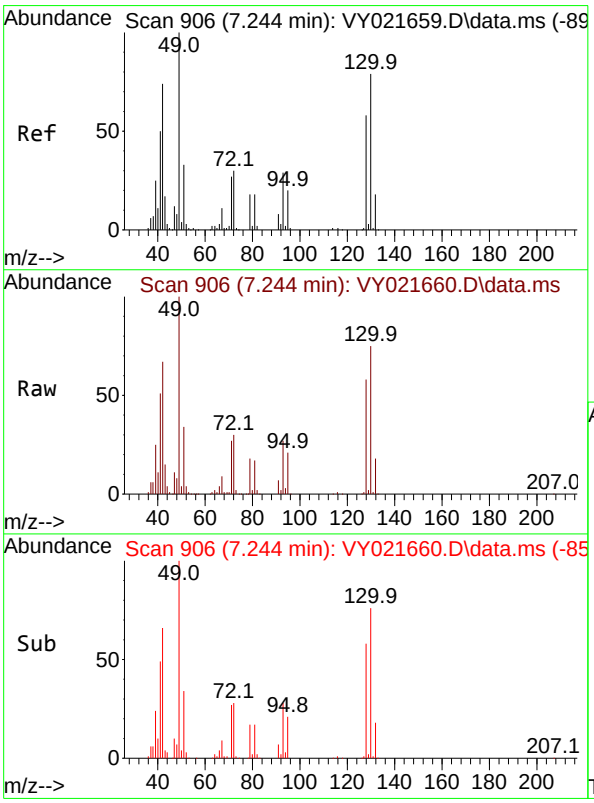
Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	296.4
98	64.2	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

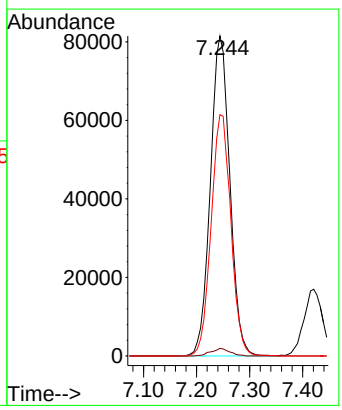
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

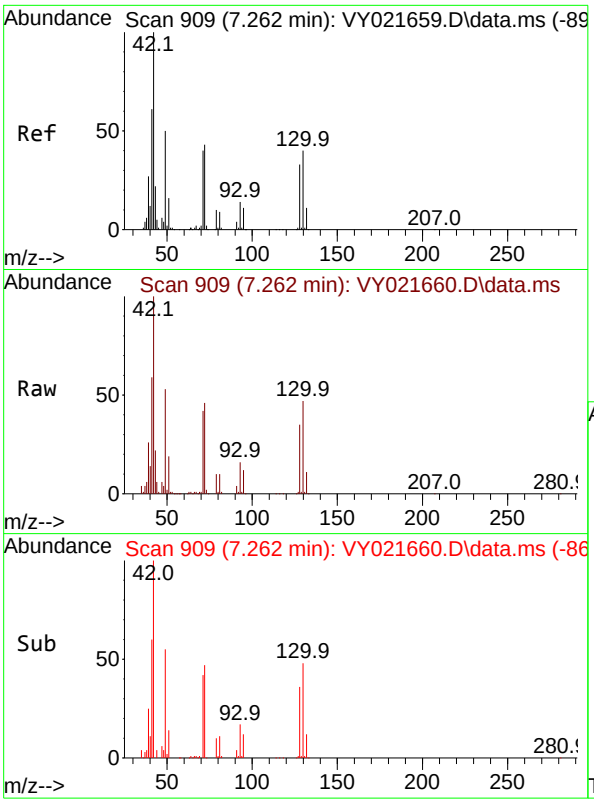


#28
Bromochloromethane
Concen: 94.860 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 49 Resp: 208162

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.4
130	76.3	60.1	90.1

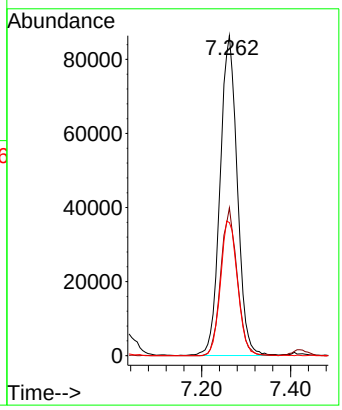




#29
Tetrahydrofuran
Concen: 457.752 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 42 Resp: 23143

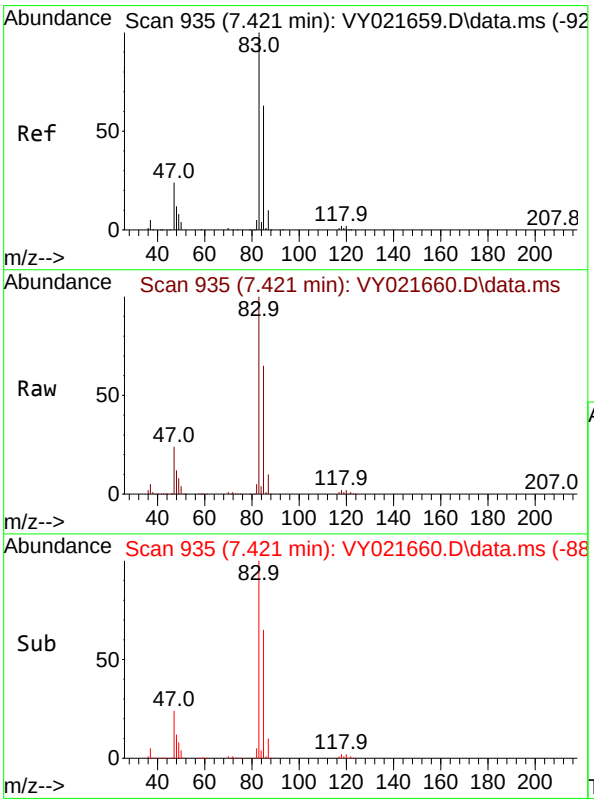
Ion	Ratio	Lower	Upper
42	100		
72	44.0	34.6	52.0
71	42.0	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

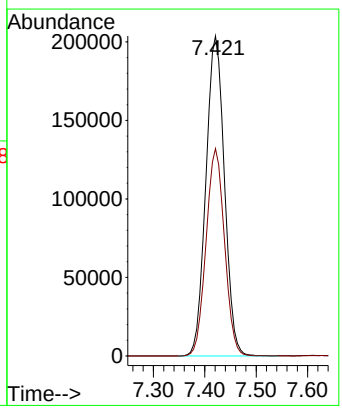
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

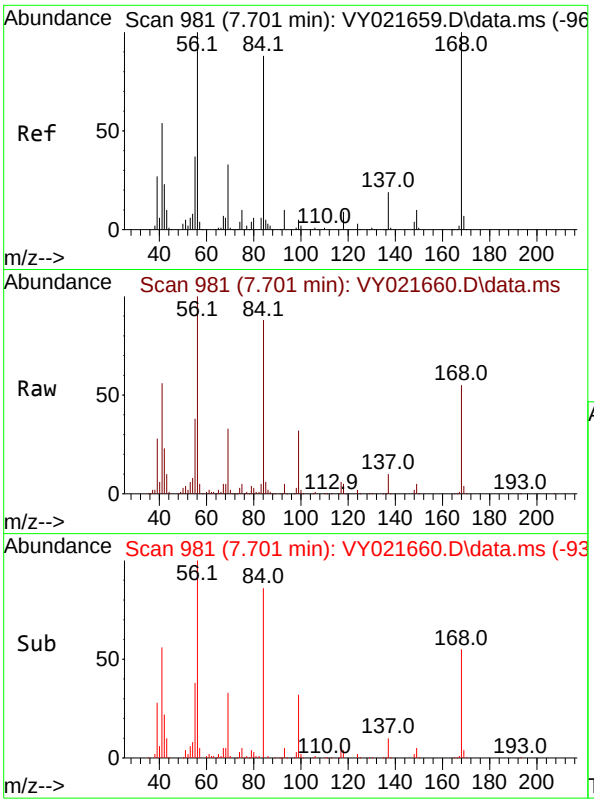


#30
Chloroform
Concen: 94.087 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 83 Resp: 509194

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.6	75.8





#31
Cyclohexane
Concen: 92.706 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

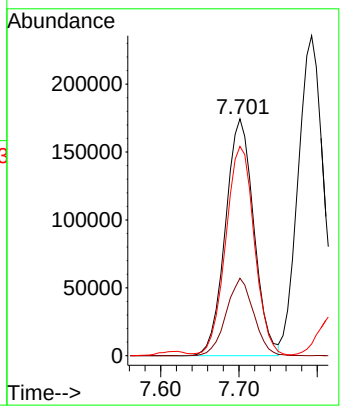
Tgt Ion: 56 Resp: 43972

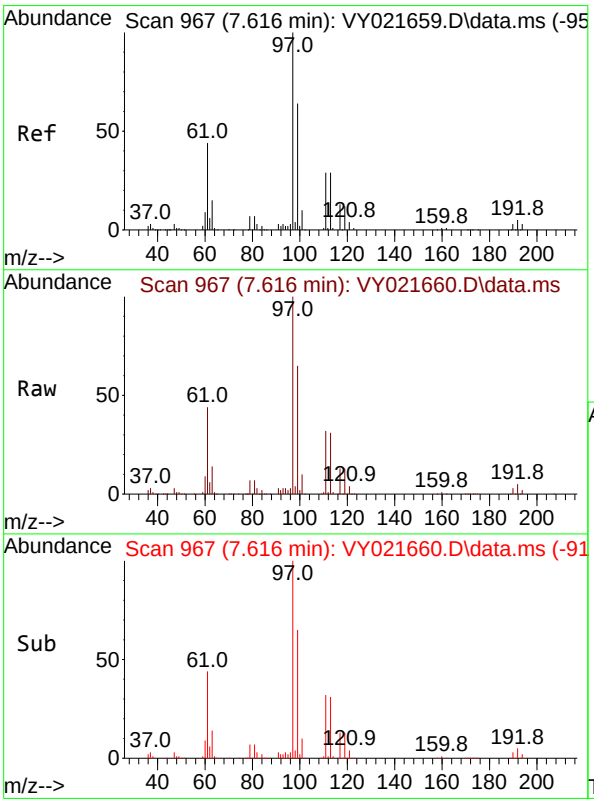
Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.6	40.0
84	86.5	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

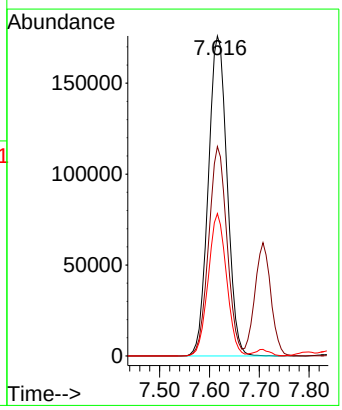


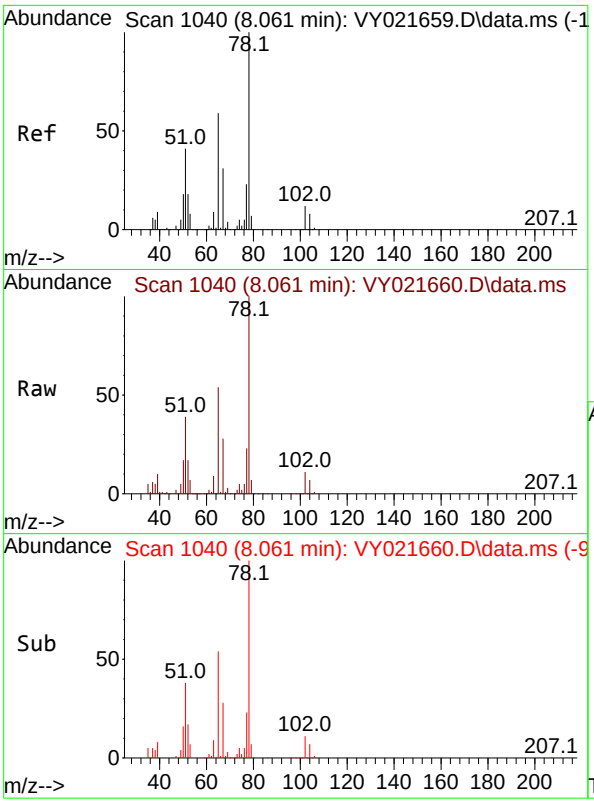


#32
1,1,1-Trichloroethane
Concen: 94.182 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 97 Resp: 460680

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.7	76.1
61	43.5	35.2	52.8

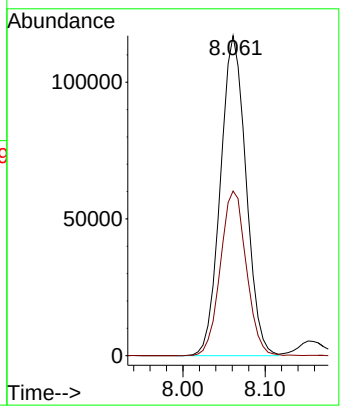




#33
1,2-Dichloroethane-d4
Concen: 94.129 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 65 Resp: 25296

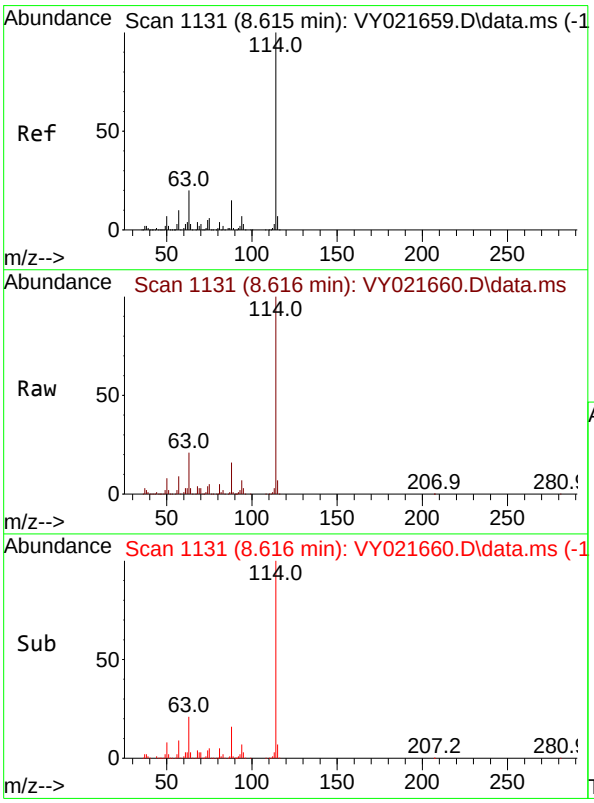
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

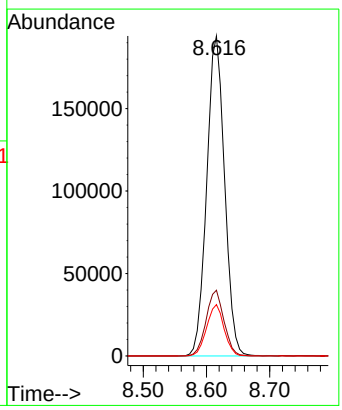
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

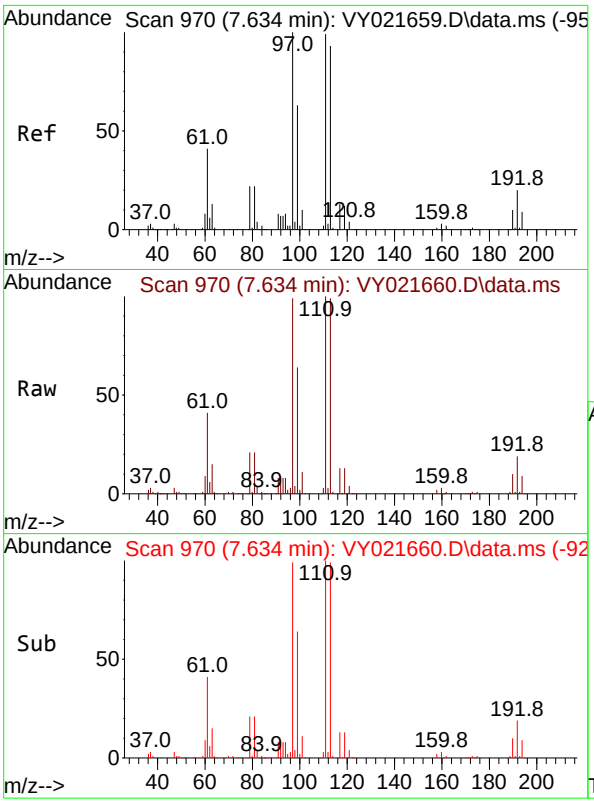


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:114 Resp: 380682

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.2
88	16.0	0.0	29.8

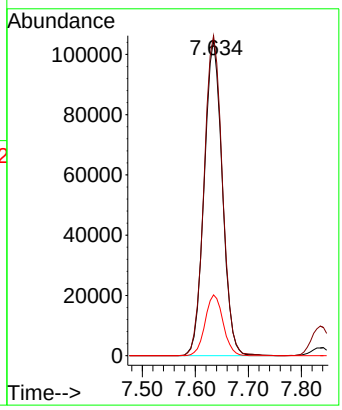




#35
Dibromofluoromethane
Concen: 100.177 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:113 Resp: 24738

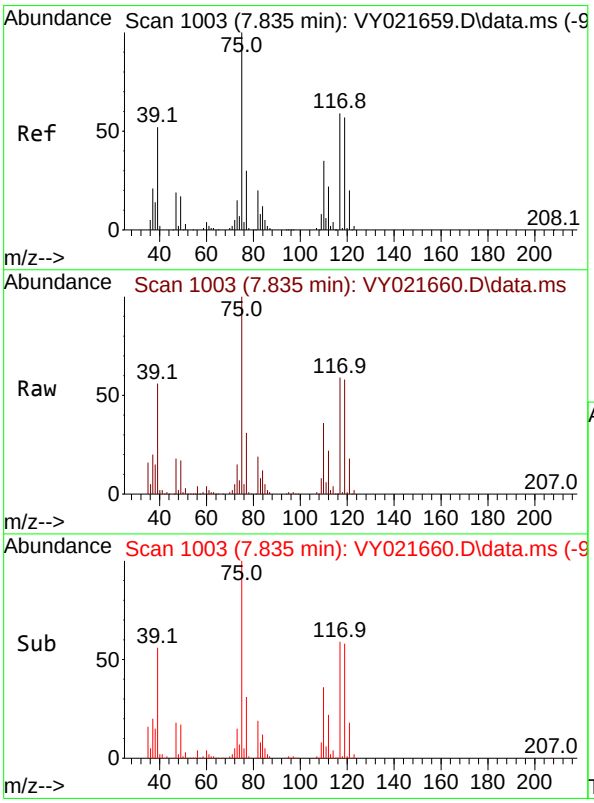
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	19.2	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

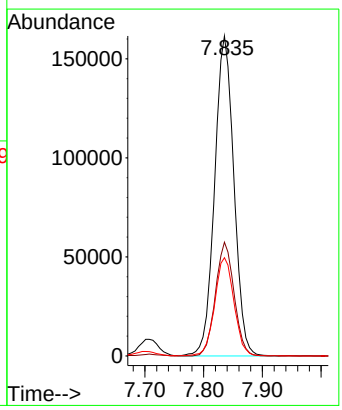
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

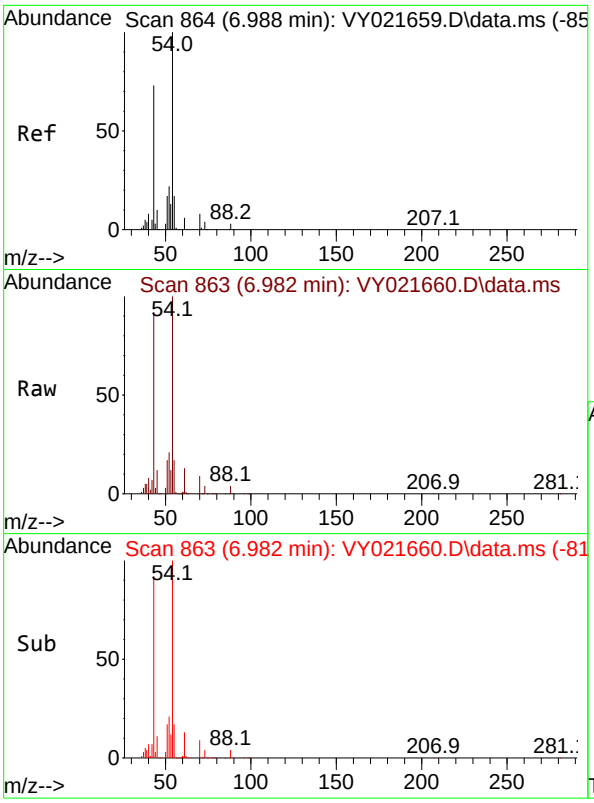


#36
1,1-Dichloropropene
Concen: 98.035 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 75 Resp: 368741

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.0	50.9
77	30.8	24.8	37.2





#37
Ethyl Acetate
Concen: 90.529 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

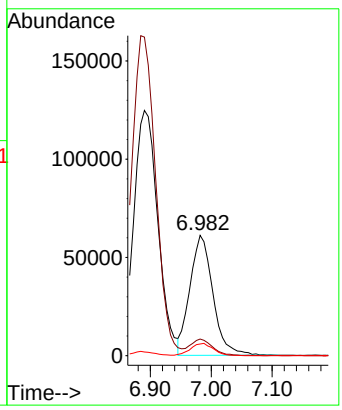
Tgt Ion: 43 Resp: 16070

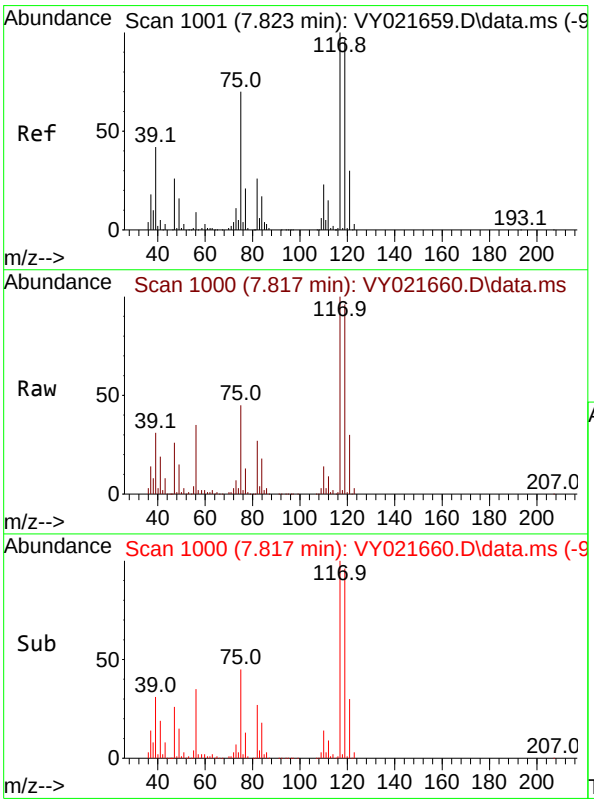
Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.6
70	10.2	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

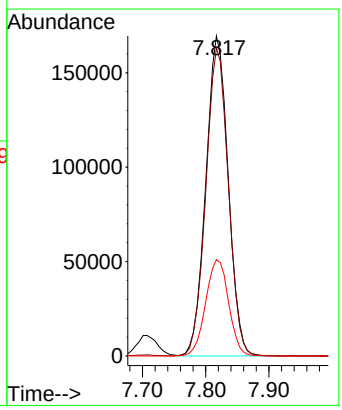


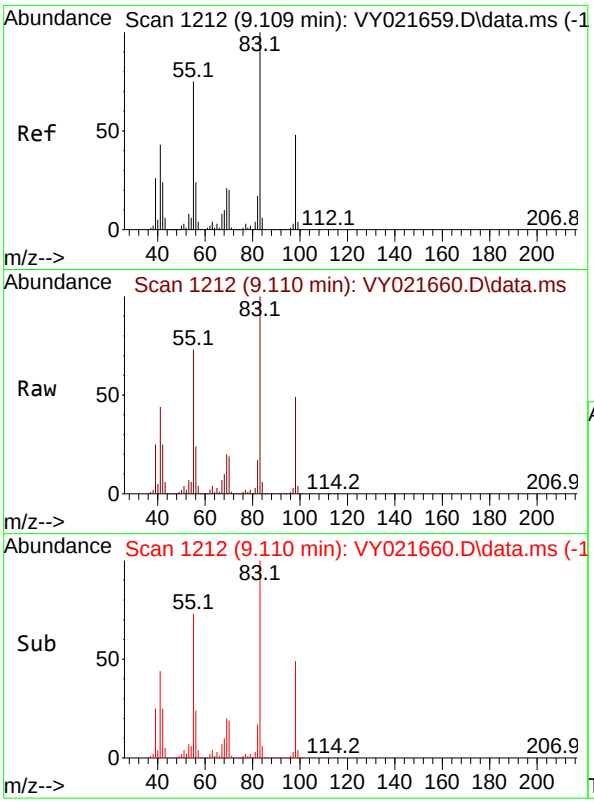


#38
Carbon Tetrachloride
Concen: 96.746 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:117 Resp: 416779

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.2	114.4
121	30.1	24.2	36.4

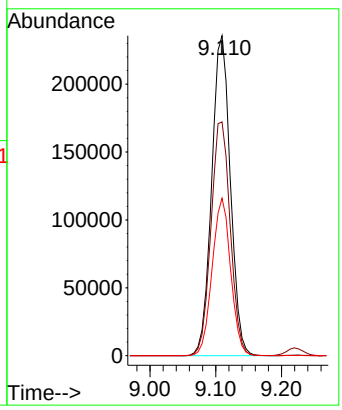




#39
Methylcyclohexane
Concen: 103.663 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 83 Resp: 46578

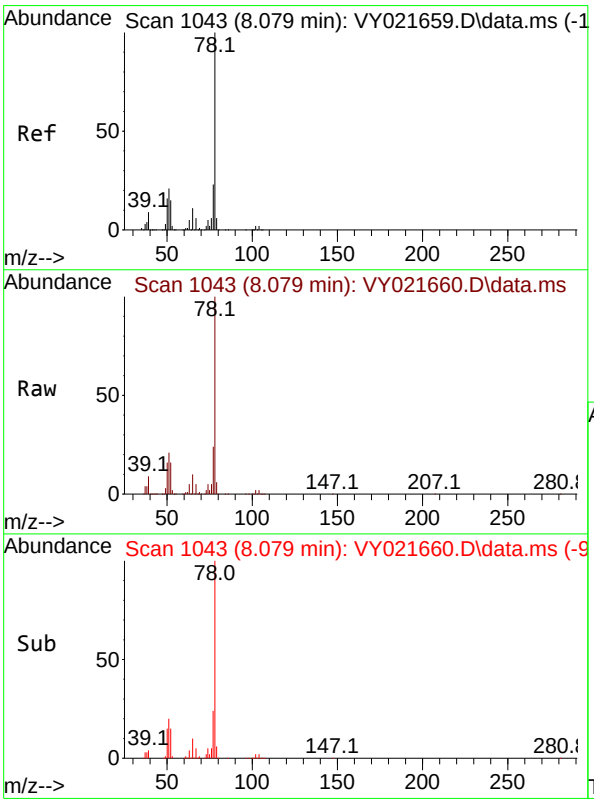
Ion	Ratio	Lower	Upper
83	100		
55	73.0	59.7	89.5
98	49.2	38.3	57.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

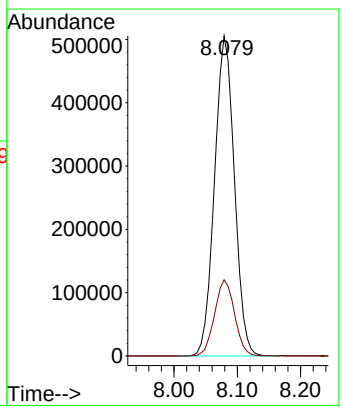
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

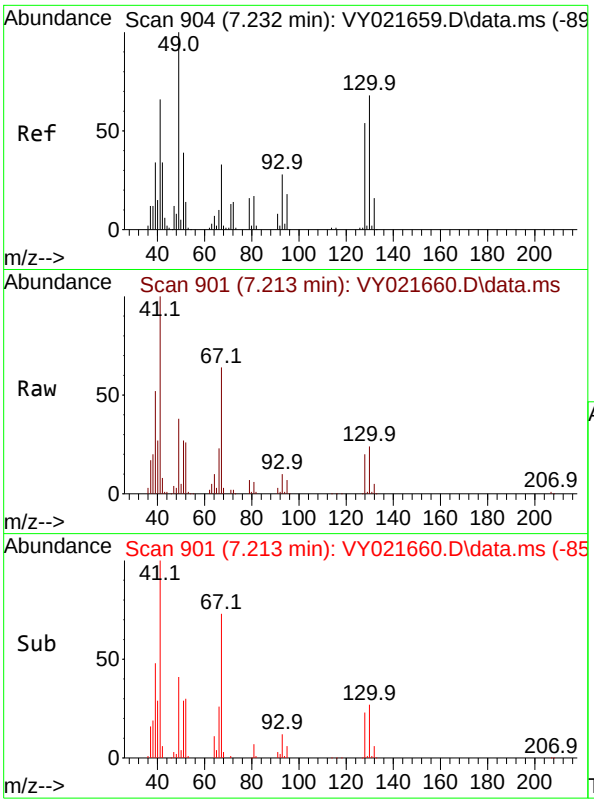


#40
Benzene
Concen: 97.692 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 78 Resp: 1100425

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2

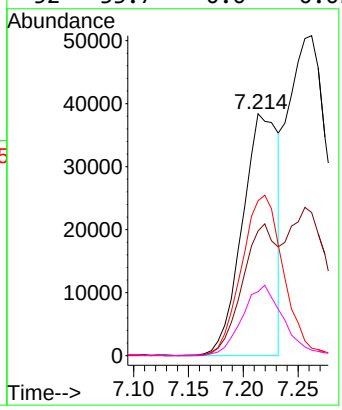




#41
Methacrylonitrile
Concen: 92.176 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 41 Resp: 8688

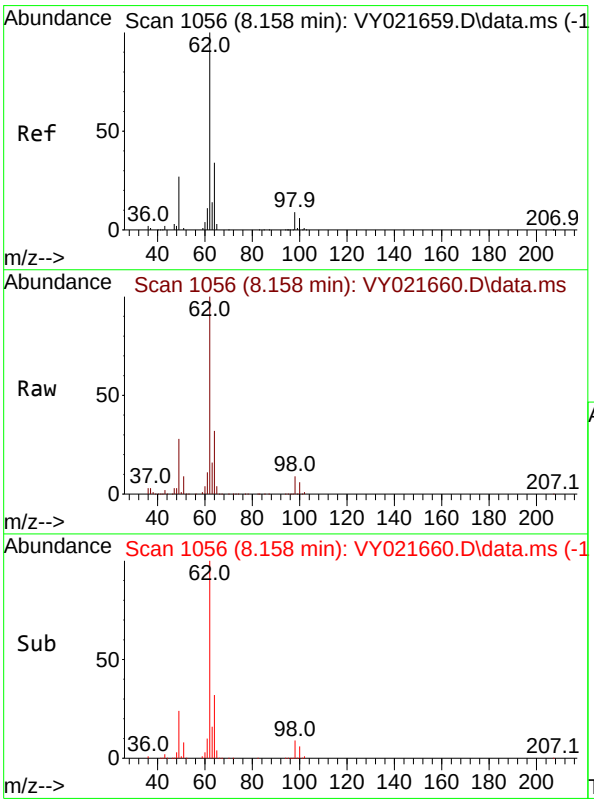
Ion	Ratio	Lower	Upper
41	100		
39	52.8	0.0	0.0#
67	78.1	0.0	0.0#
52	33.7	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

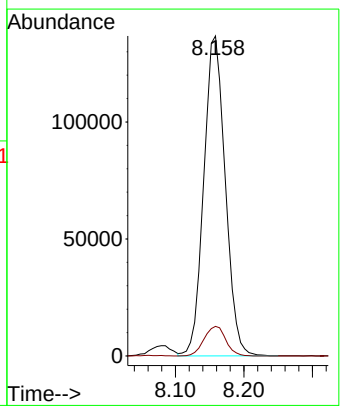
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

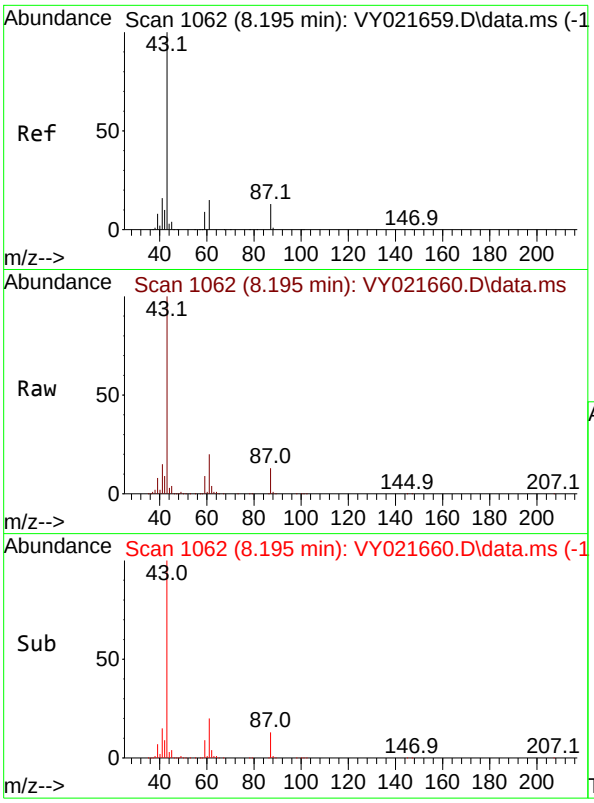


#42
1,2-Dichloroethane
Concen: 93.952 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 62 Resp: 298349

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.4

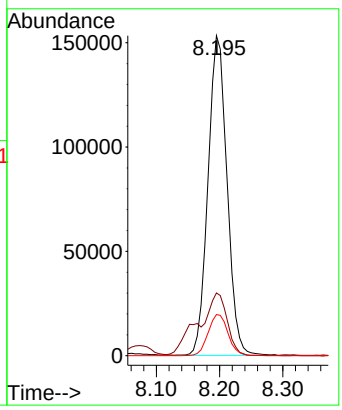




#43
Isopropyl Acetate
Concen: 95.153 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 32009

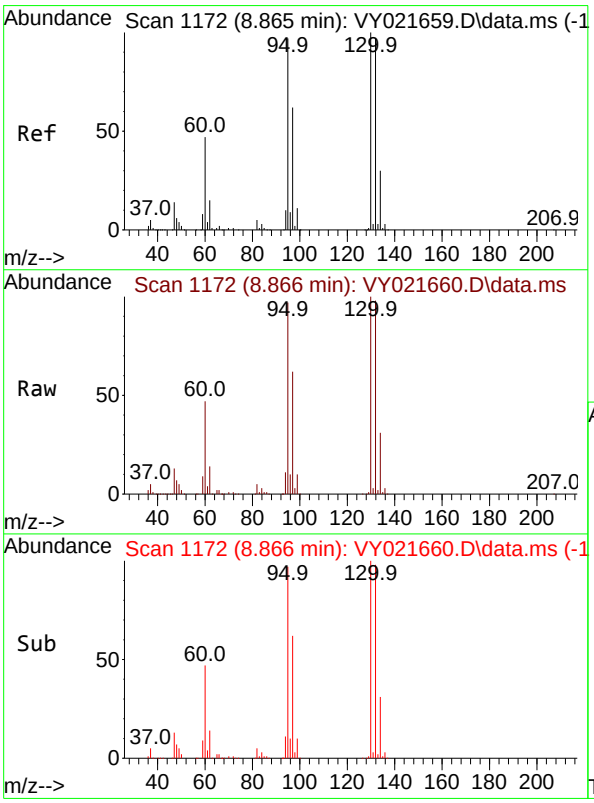
Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.9	23.9
87	13.4	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

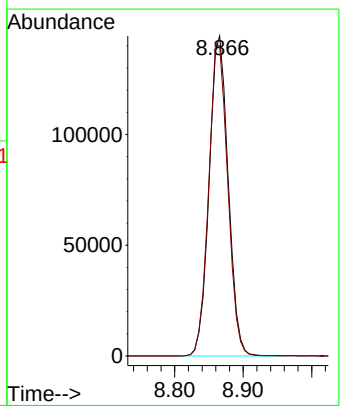
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

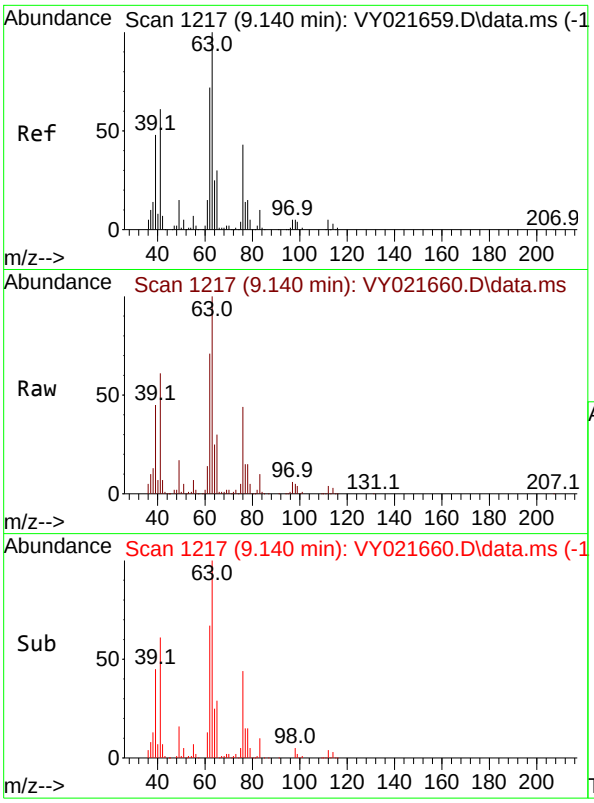


#44
Trichloroethene
Concen: 97.190 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:130 Resp: 278937

Ion	Ratio	Lower	Upper
130	100		
95	96.9	0.0	194.8

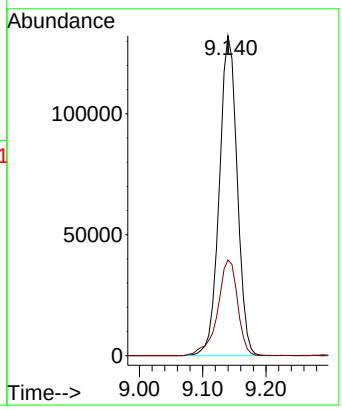




#45
1,2-Dichloropropane
Concen: 97.163 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 63 Resp: 25906

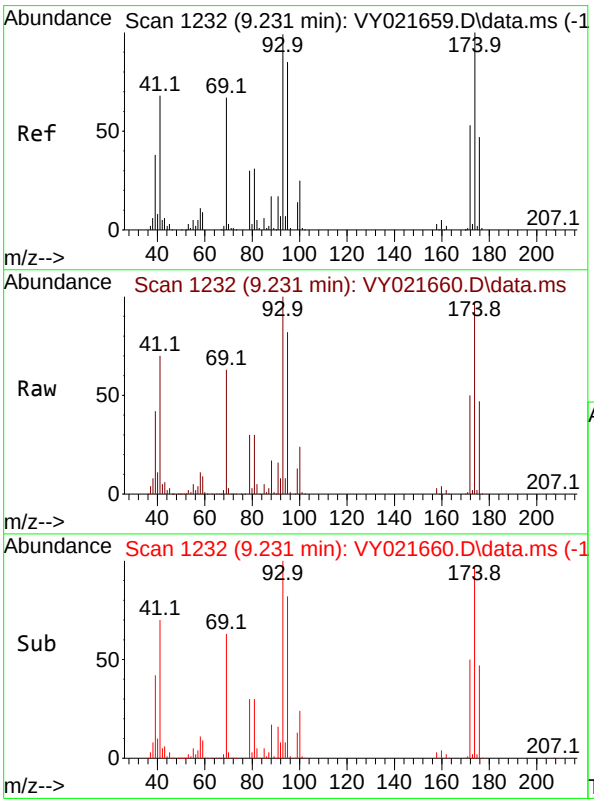
Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

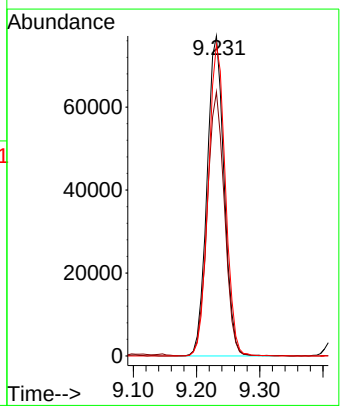
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

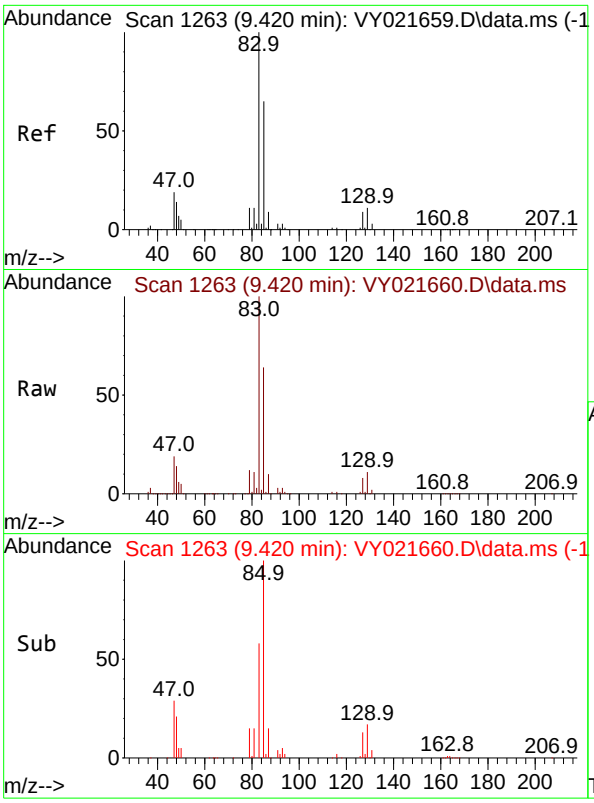


#46
Dibromomethane
Concen: 94.482 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 93 Resp: 145186

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.1	102.1
174	97.8	80.9	121.3

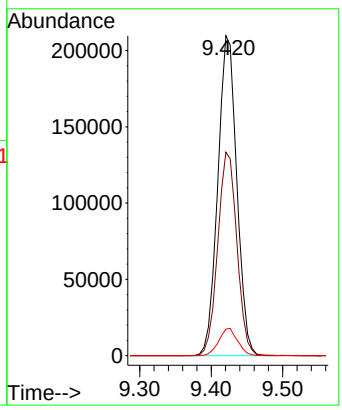




#47
Bromodichloromethane
Concen: 97.159 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 83 Resp: 38686

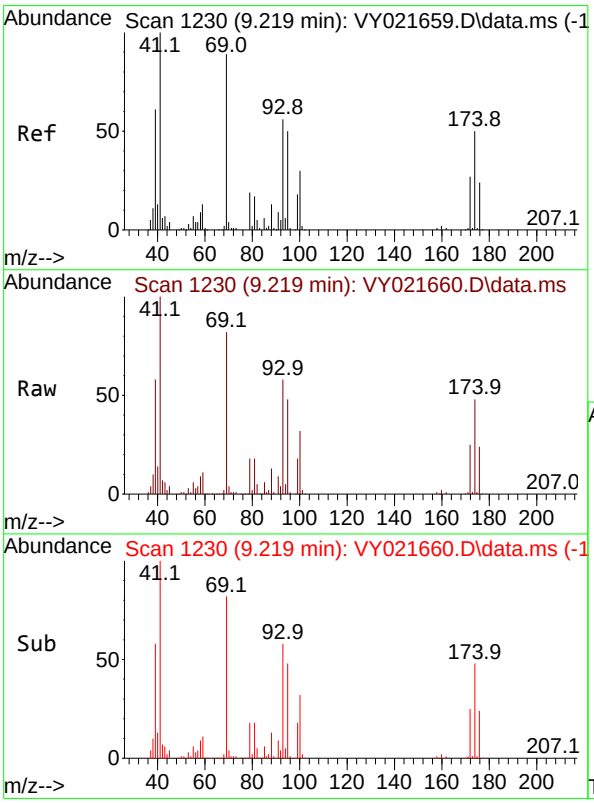
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.6
127	8.3	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

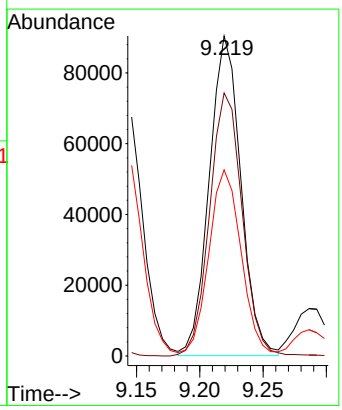
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

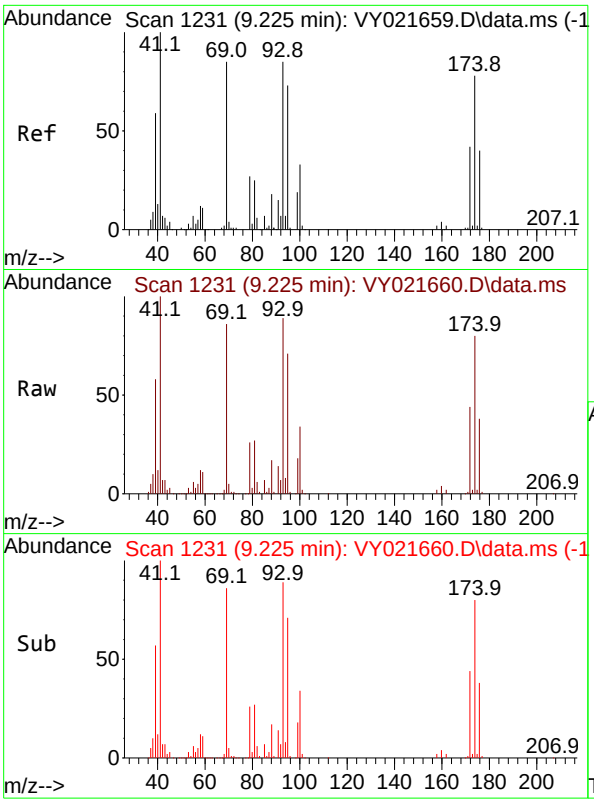


#48
Methyl methacrylate
Concen: 101.718 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 41 Resp: 157046

Ion	Ratio	Lower	Upper
41	100		
69	85.0	69.8	104.8
39	57.6	47.2	70.8

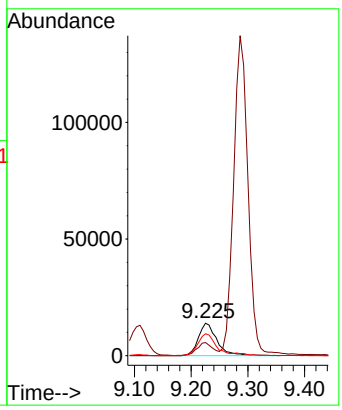




#49
1,4-Dioxane
Concen: 1922.485 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 88 Resp: 3164

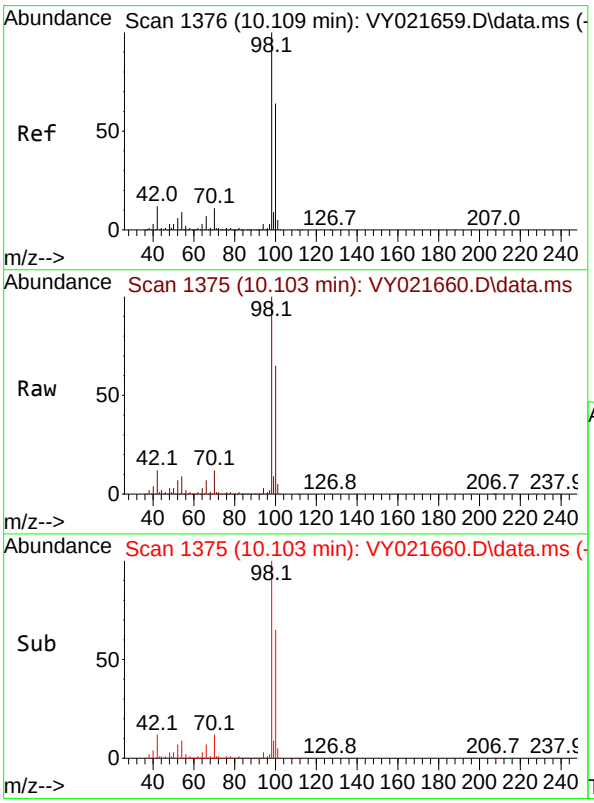
Ion	Ratio	Lower	Upper
88	100		
43	34.7	28.8	43.2
58	65.5	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

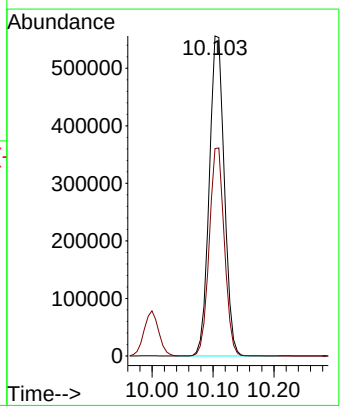
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

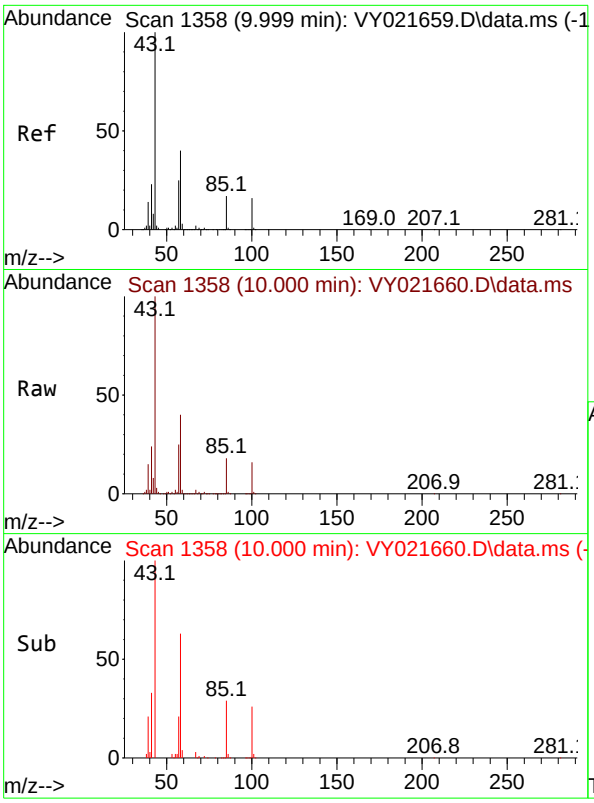


#50
Toluene-d8
Concen: 101.480 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 98 Resp: 953346

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.1	78.1

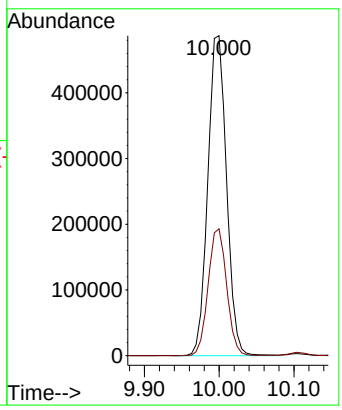




#51
4-Methyl-2-Pentanone
Concen: 483.331 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 84612

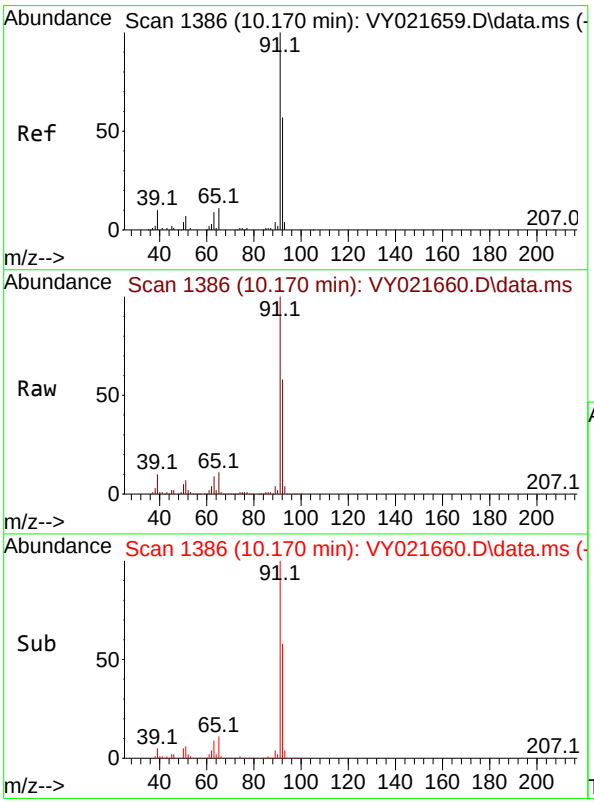
Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

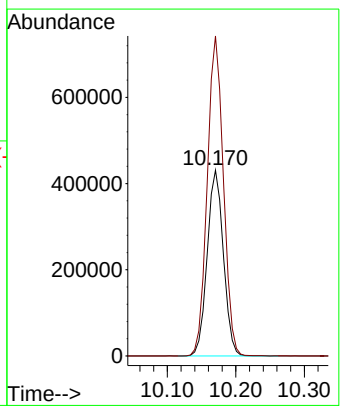
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

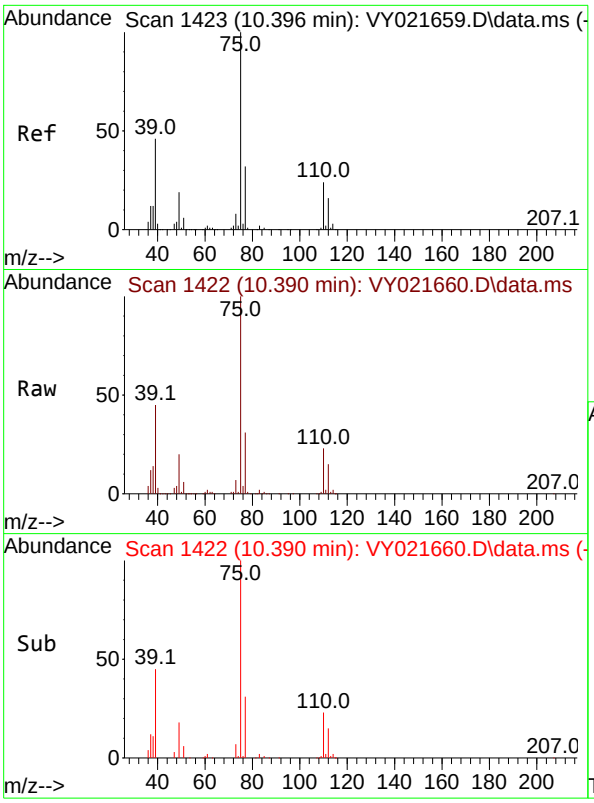


#52
Toluene
Concen: 100.486 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 92 Resp: 706197

Ion	Ratio	Lower	Upper
92	100		
91	172.2	138.6	207.8

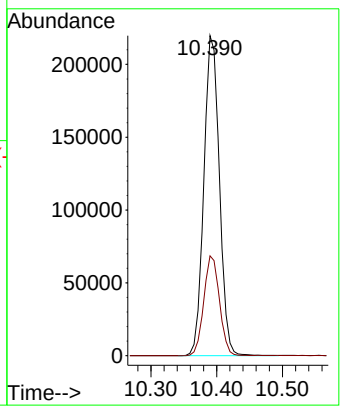




#53
t-1,3-Dichloropropene
Concen: 102.153 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 75 Resp: 36128

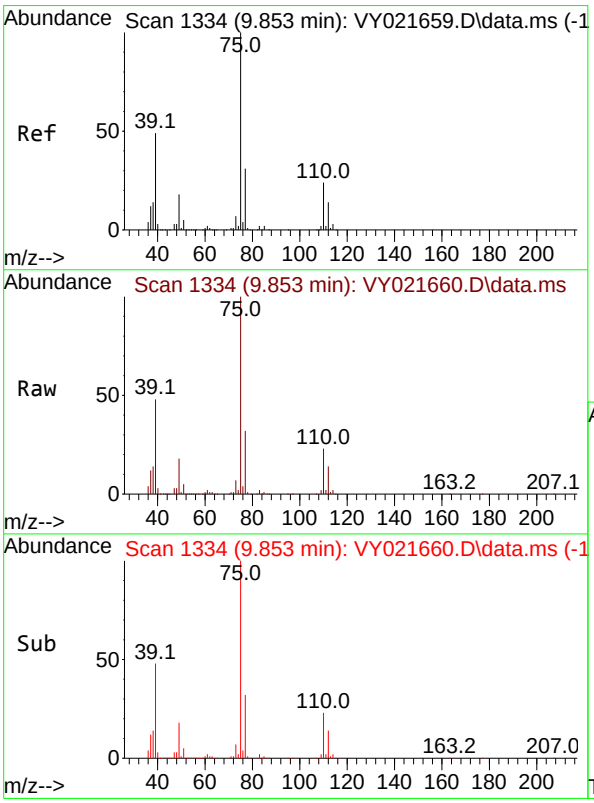
Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

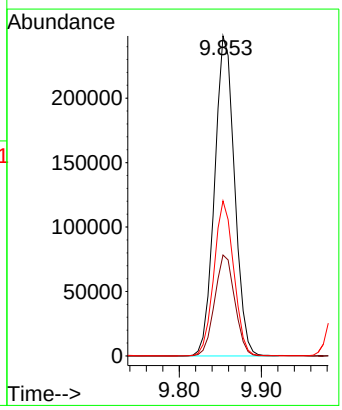
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

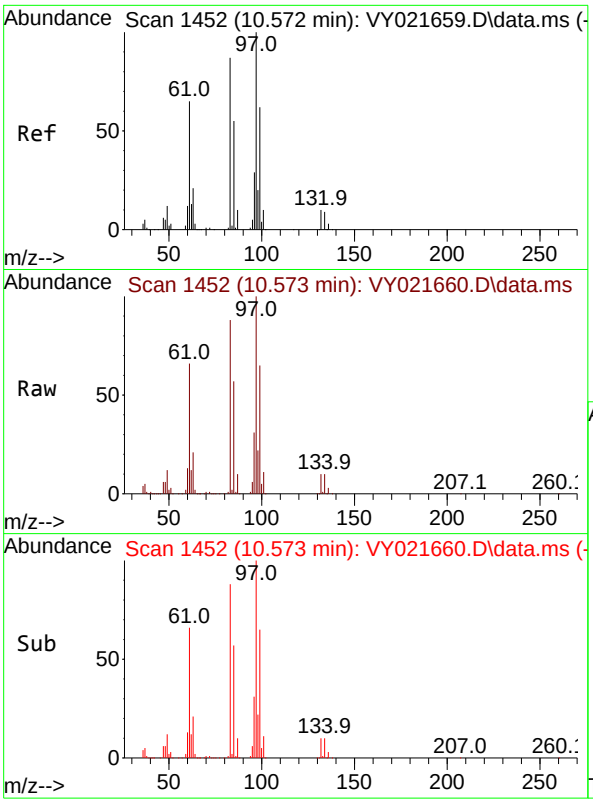


#54
cis-1,3-Dichloropropene
Concen: 100.208 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 75 Resp: 418099

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	48.4	39.2	58.8

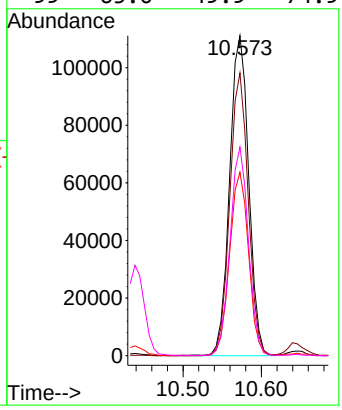




#55
1,1,2-Trichloroethane
Concen: 95.058 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 97 Resp: 18797

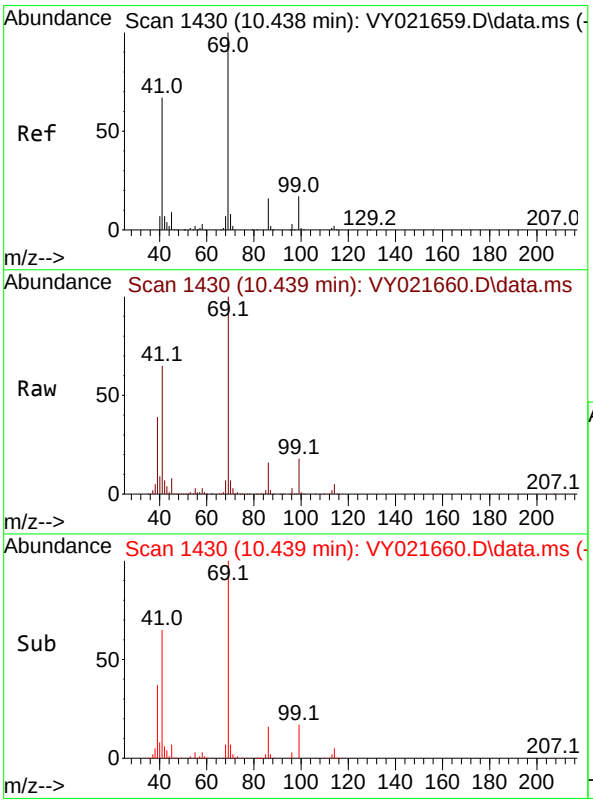
Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.5	104.3
85	57.3	43.9	65.9
99	65.0	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

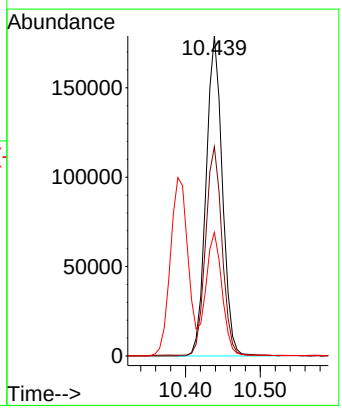
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

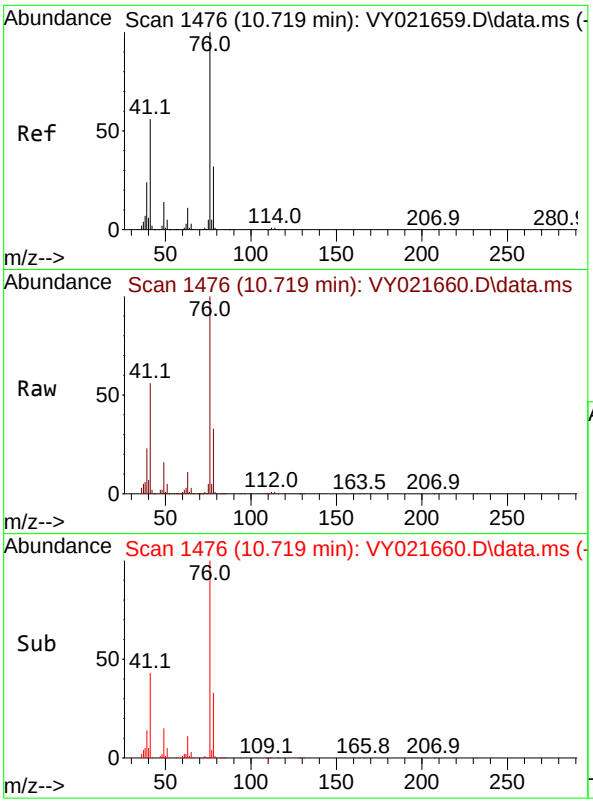


#56
Ethyl methacrylate
Concen: 107.339 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 69 Resp: 271036

Ion	Ratio	Lower	Upper
69	100		
41	65.6	53.8	80.6
39	38.6	29.6	44.4





#57
1,3-Dichloropropane
Concen: 96.352 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

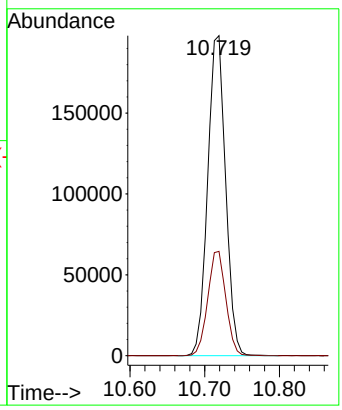
Tgt Ion: 76 Resp: 32906

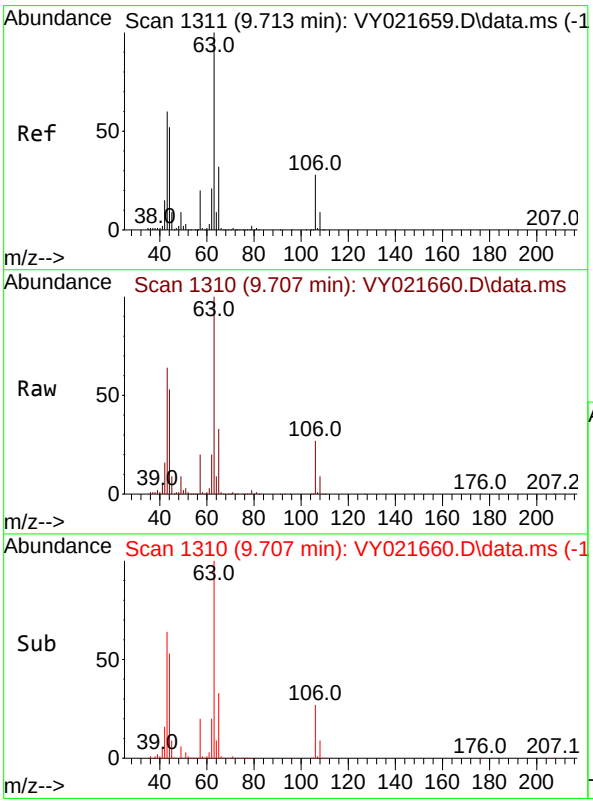
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

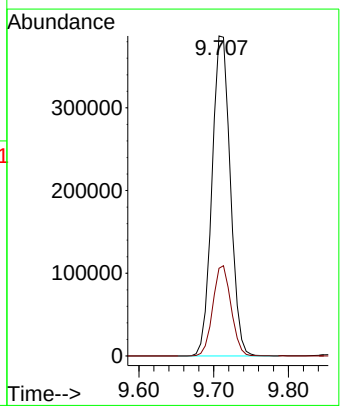


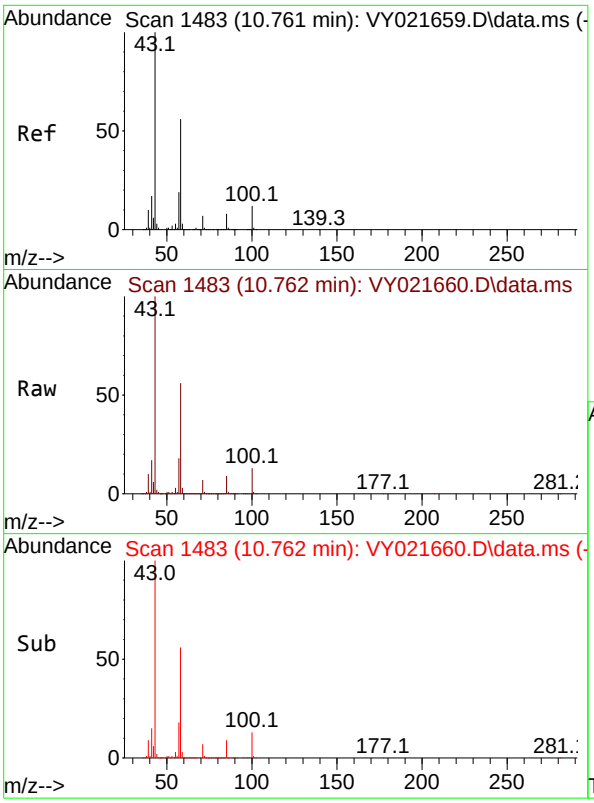


#58
2-Chloroethyl Vinyl ether
Concen: 534.142 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 63 Resp: 657953

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.4	33.6

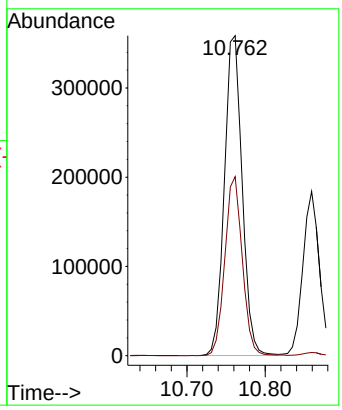




#59
2-Hexanone
Concen: 484.686 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 56508

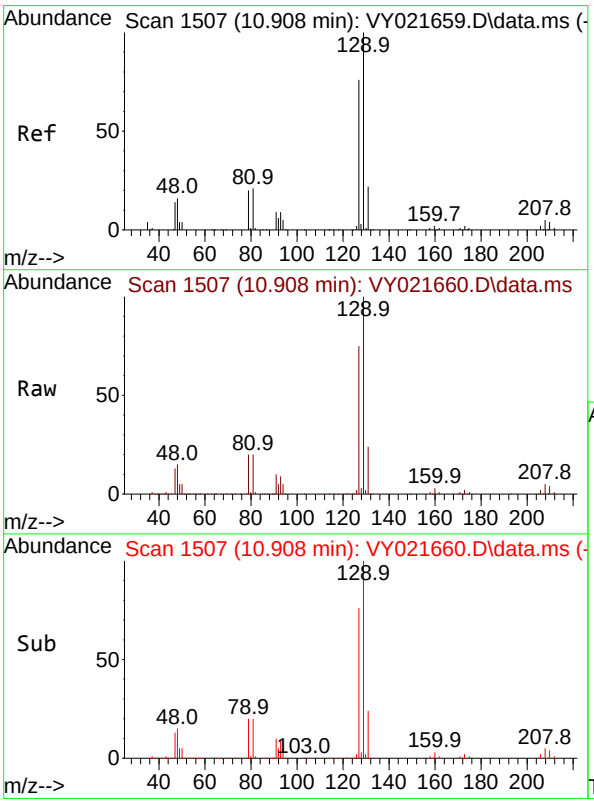
Ion	Ratio	Lower	Upper
43	100		
58	55.2	27.2	81.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

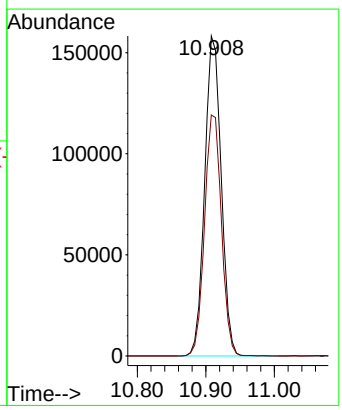
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

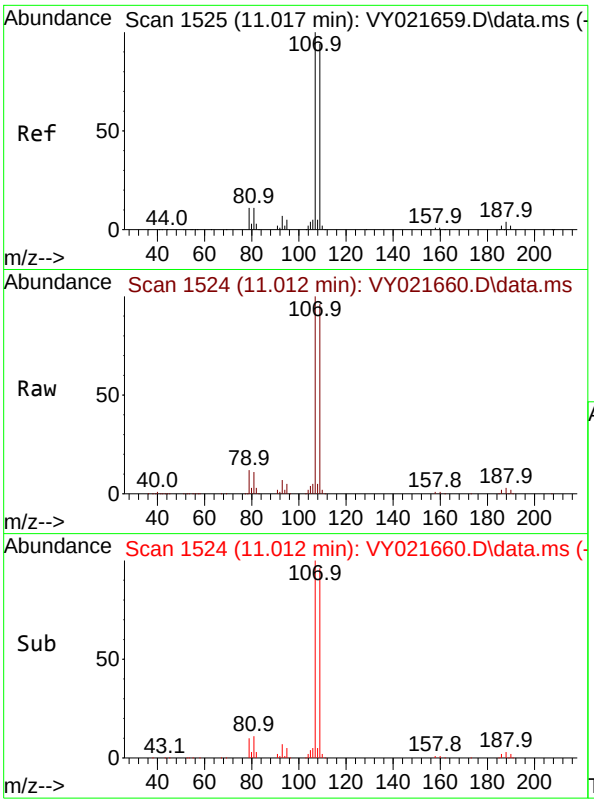


#60
Dibromochloromethane
Concen: 98.207 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:129 Resp: 265151

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.6	115.7

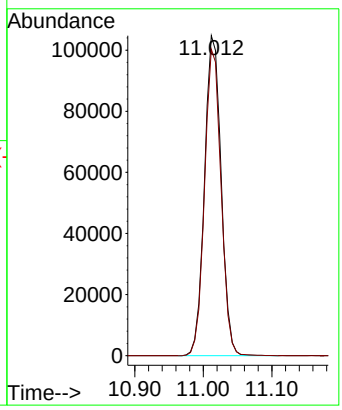




#61
1,2-Dibromoethane
Concen: 95.501 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:107 Resp: 17715

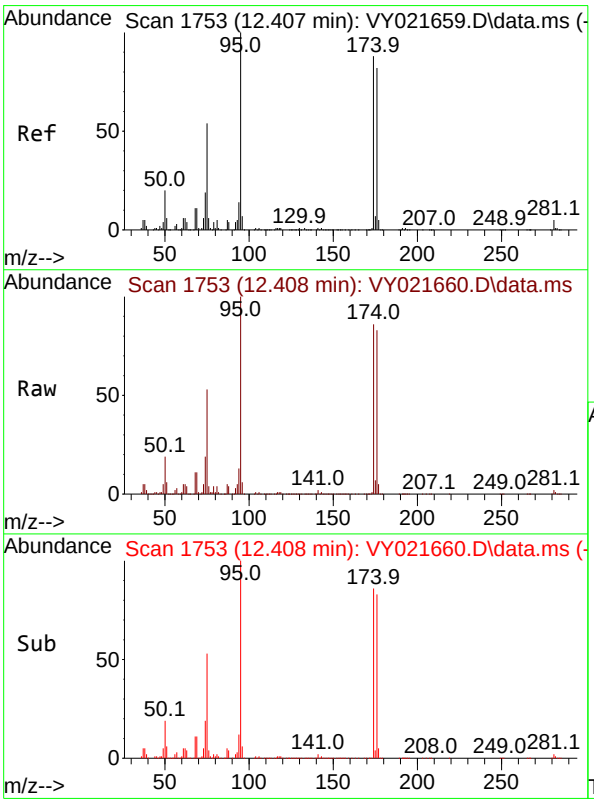
Ion	Ratio	Lower	Upper
107	100		
109	94.9	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

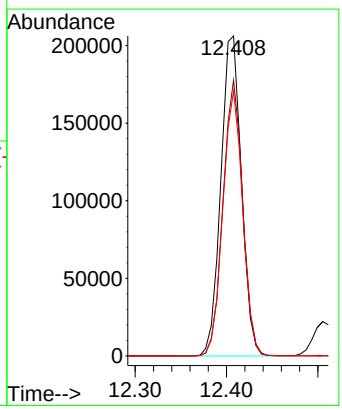
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

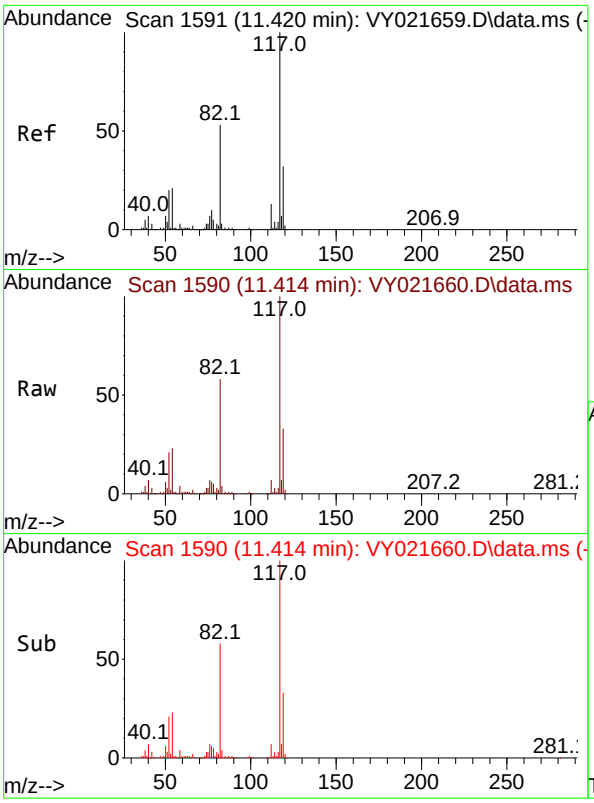


#62
4-Bromofluorobenzene
Concen: 101.481 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 95 Resp: 322469

Ion	Ratio	Lower	Upper
95	100		
174	82.7	0.0	170.8
176	79.9	0.0	162.0

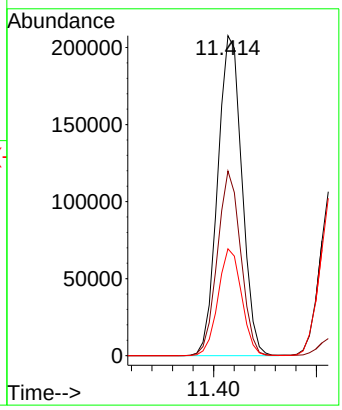




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:117 Resp: 33920

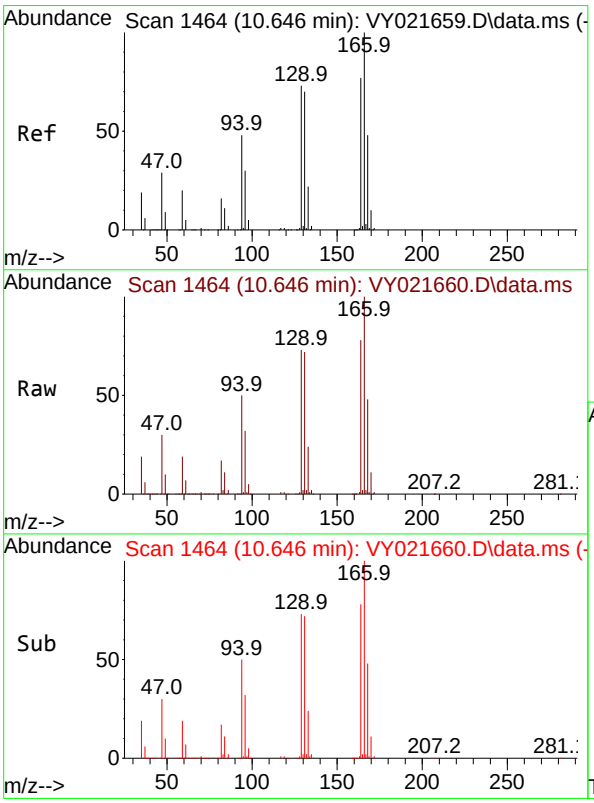
Ion	Ratio	Lower	Upper
117	100		
82	57.7	42.8	64.2
119	33.4	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

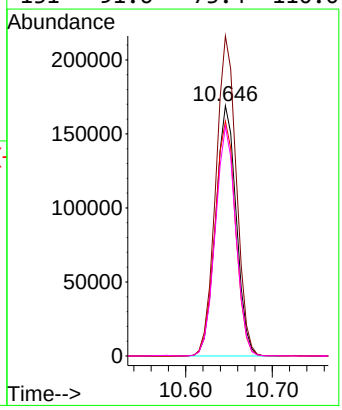
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

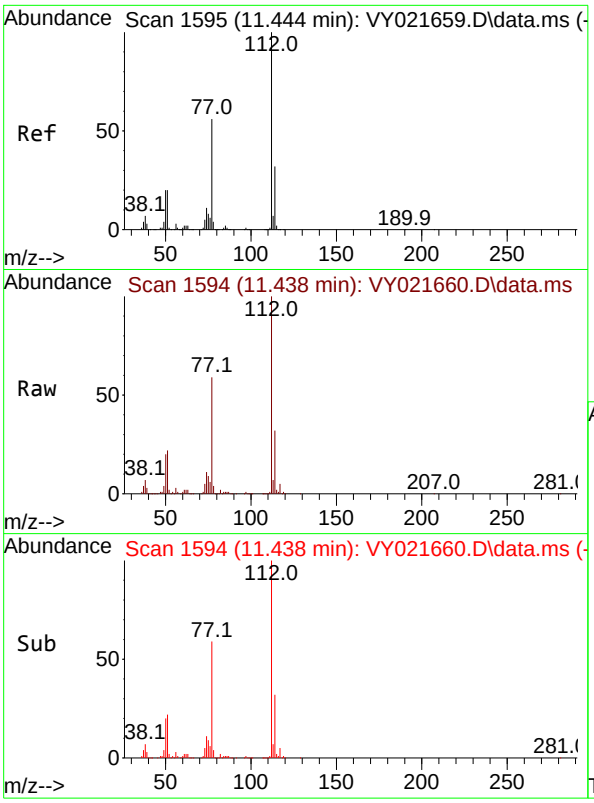


#64
Tetrachloroethene
Concen: 90.401 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:164 Resp: 279279

Ion	Ratio	Lower	Upper
164	100		
166	127.9	104.6	156.8
129	93.9	76.6	114.8
131	91.6	73.4	110.0

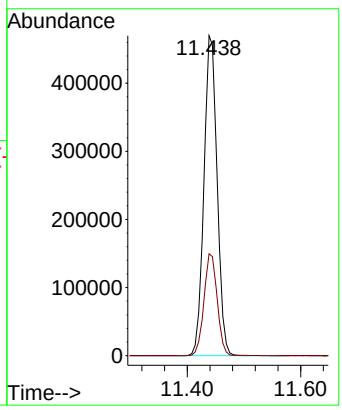




#65
Chlorobenzene
Concen: 97.381 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:112 Resp: 75719

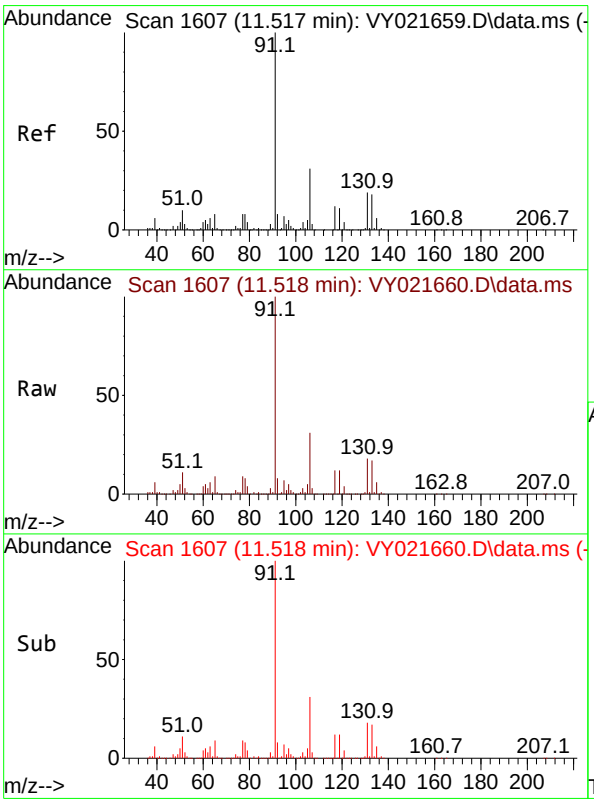
Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

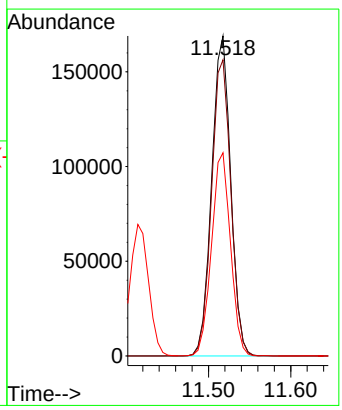
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

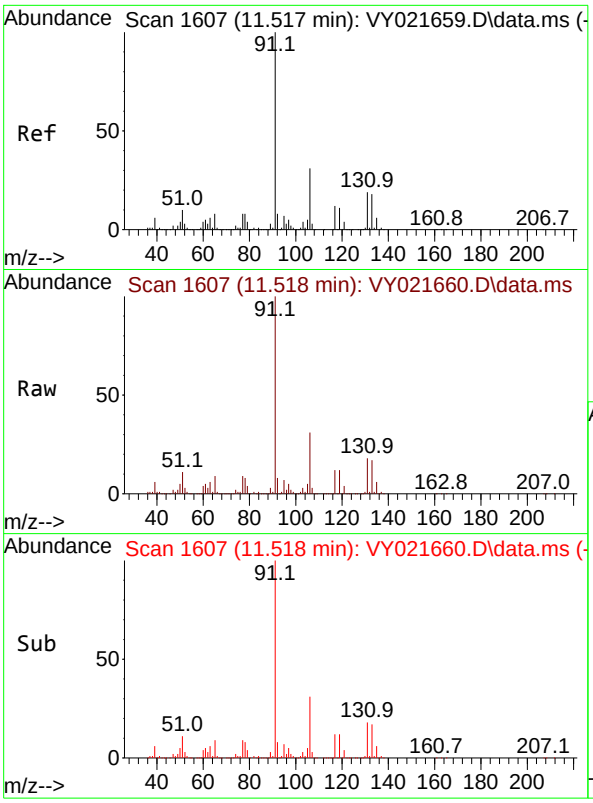


#66
1,1,1,2-Tetrachloroethane
Concen: 98.275 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:131 Resp: 271119

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.3	141.8
119	63.6	31.6	95.0

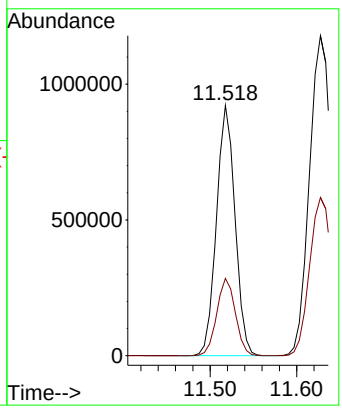




#67
Ethyl Benzene
Concen: 102.918 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 91 Resp: 137224

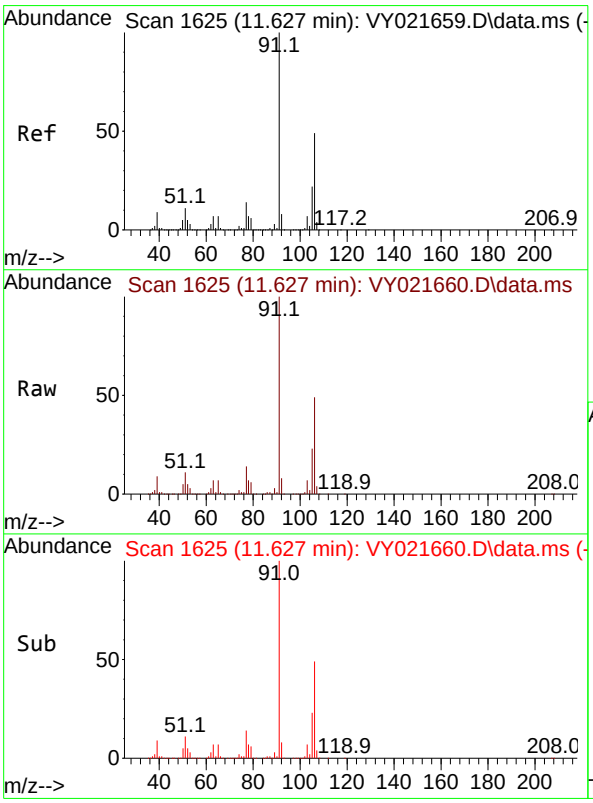
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

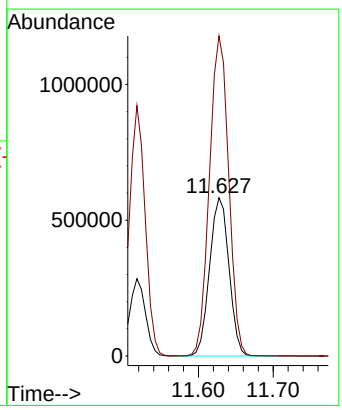
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

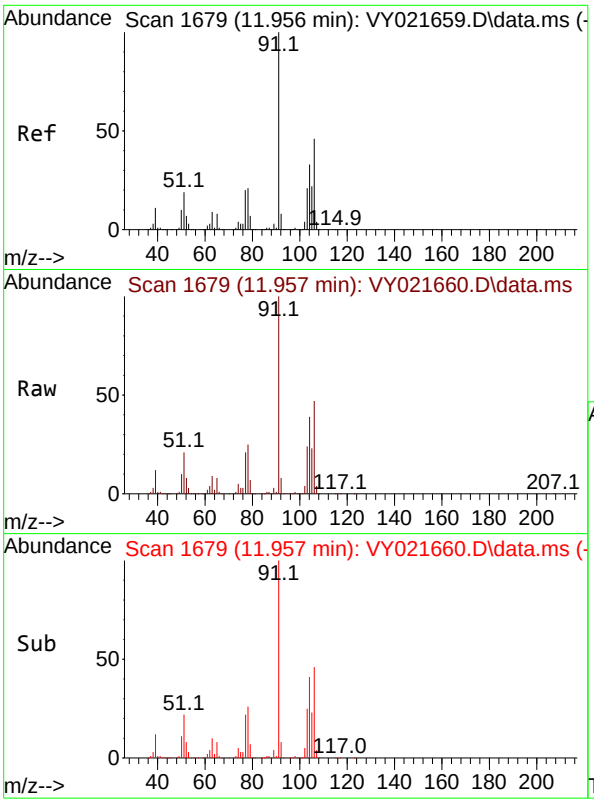


#68
m/p-Xylenes
Concen: 205.681 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:106 Resp: 1050156

Ion	Ratio	Lower	Upper
106	100		
91	201.4	162.4	243.6

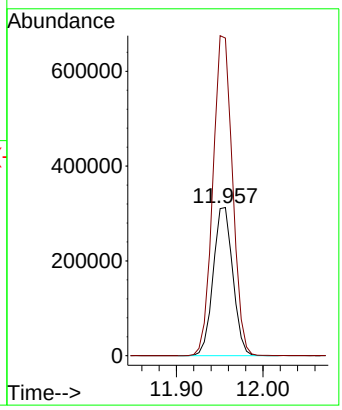




#69
o-Xylene
Concen: 104.369 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:106 Resp: 49189

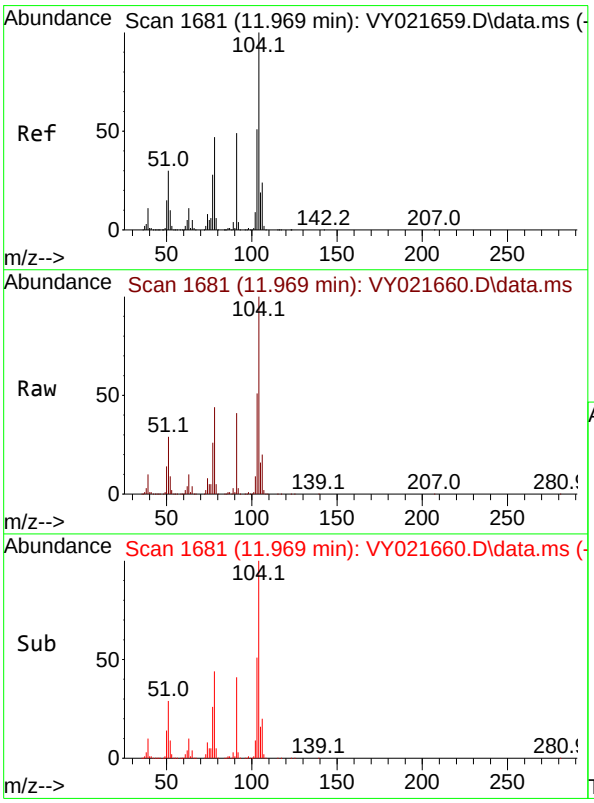
Ion	Ratio	Lower	Upper
106	100		
91	215.9	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

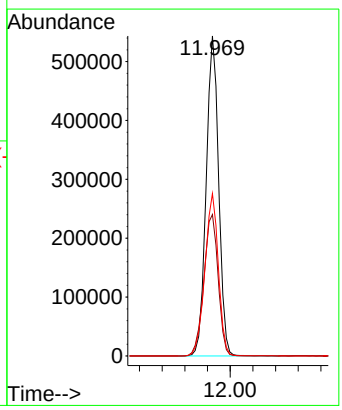
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

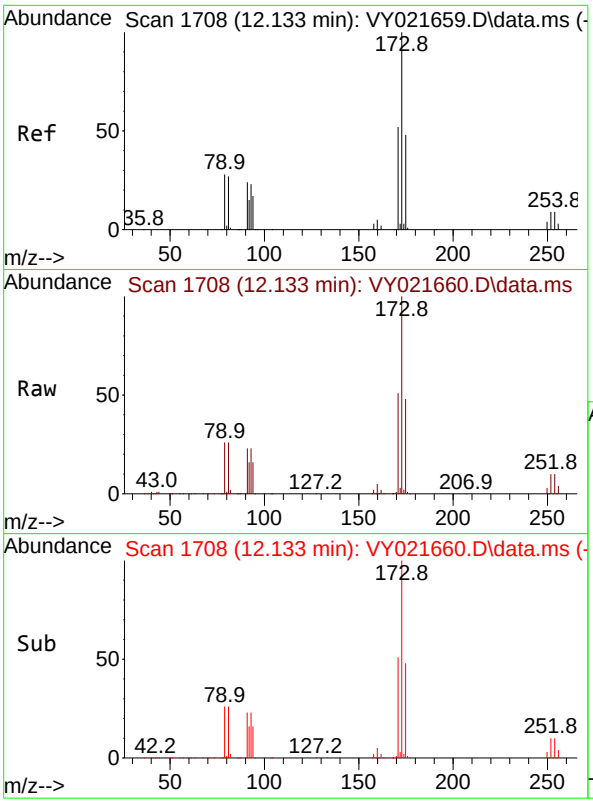


#70
Styrene
Concen: 106.098 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:104 Resp: 833734

Ion	Ratio	Lower	Upper
104	100		
78	50.5	40.8	61.2
103	54.6	44.2	66.2

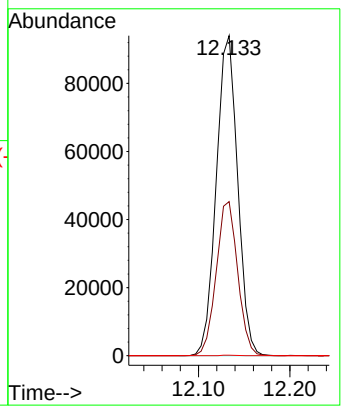




#71
Bromoform
Concen: 97.024 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:173 Resp: 15268

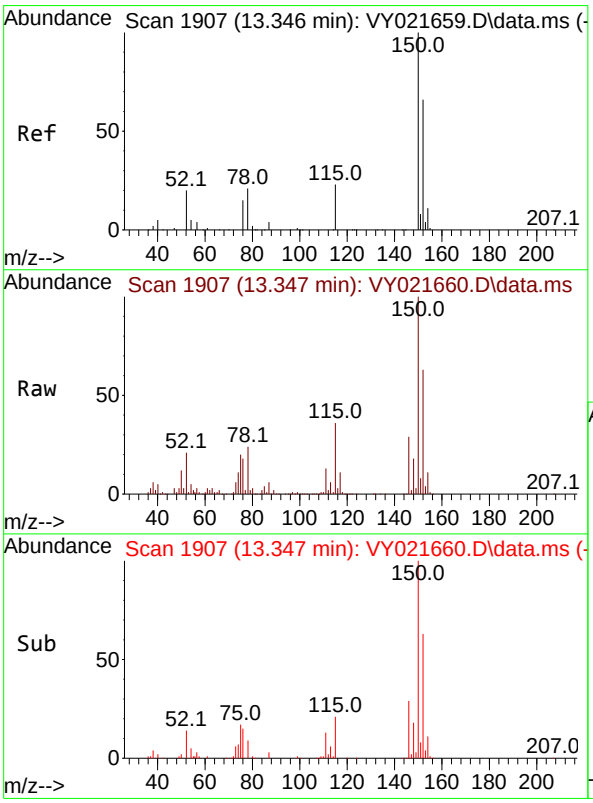
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.3	73.0
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

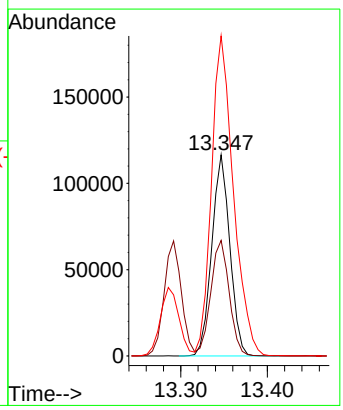
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

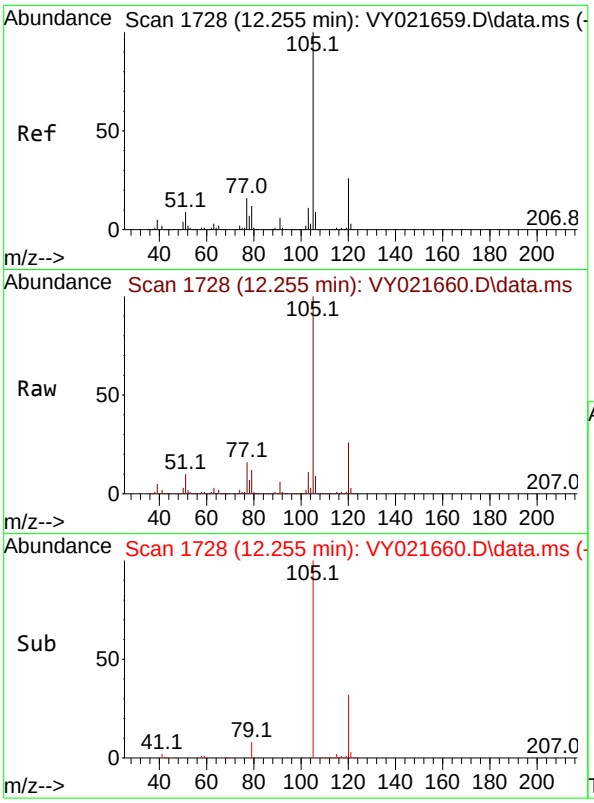


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:152 Resp: 168901

Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.8	86.5
150	193.6	0.0	348.4

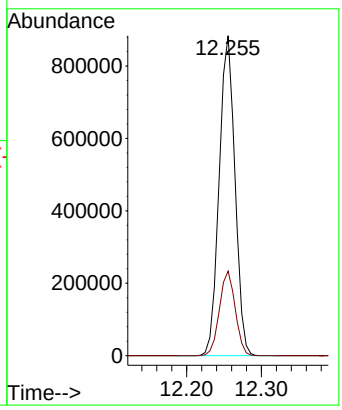




#73
Isopropylbenzene
Concen: 103.486 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:105 Resp: 129822

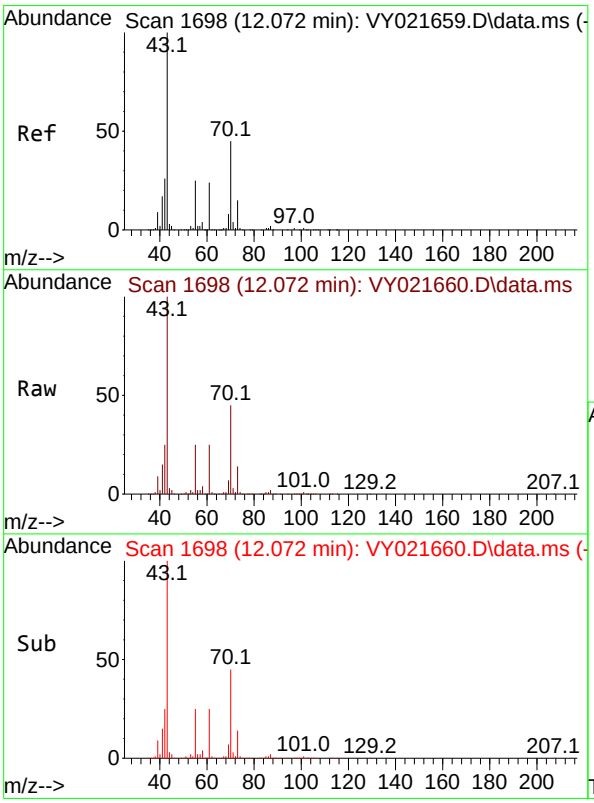
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

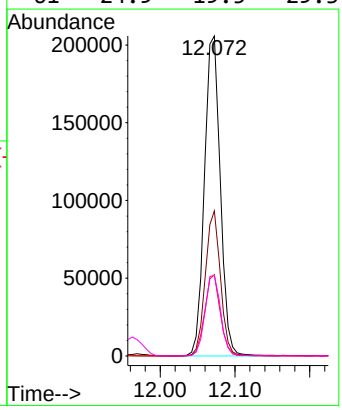
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

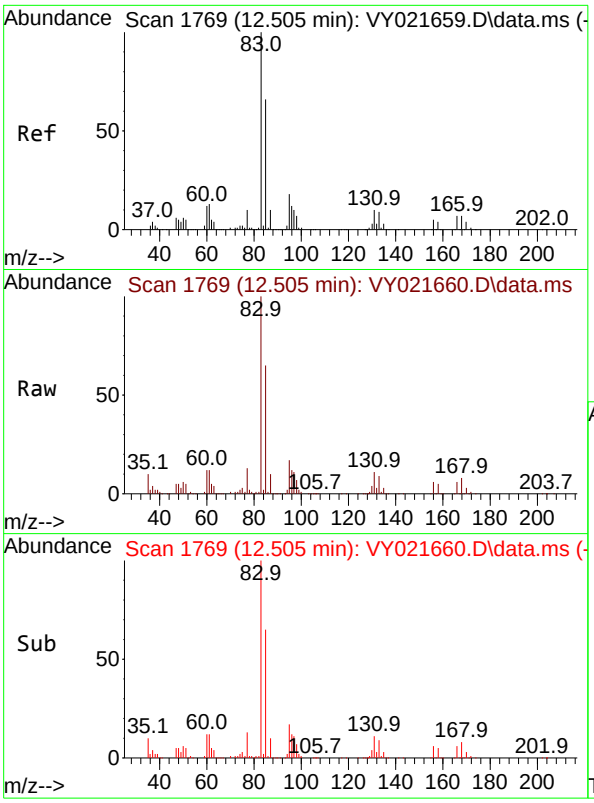


#74
N-amyl acetate
Concen: 103.027 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 43 Resp: 303328

Ion	Ratio	Lower	Upper
43	100		
70	43.3	34.7	52.1
55	25.1	21.2	31.8
61	24.9	19.5	29.3





#75
1,1,2,2-Tetrachloroethane
Concen: 92.706 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

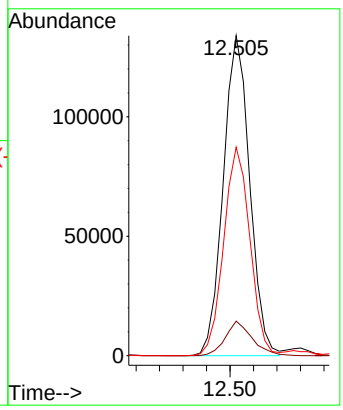
Tgt Ion: 83 Resp: 20909

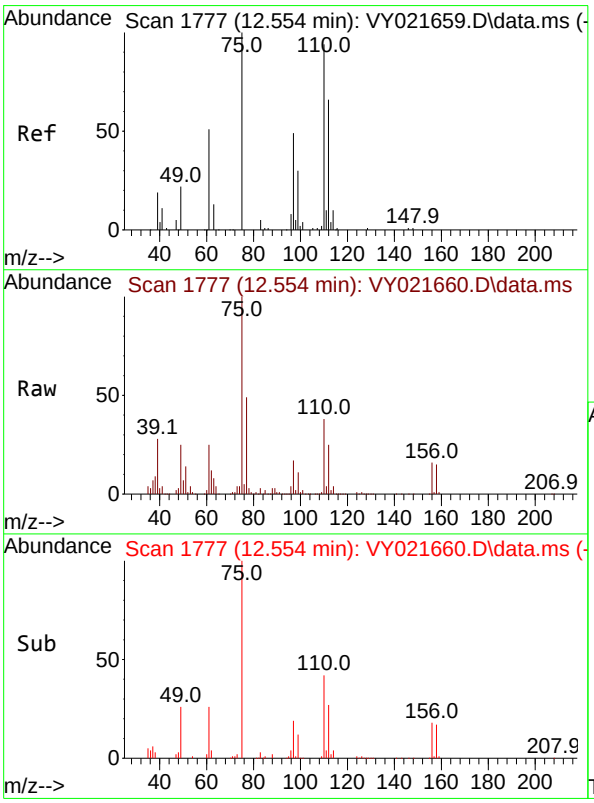
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.1	15.3
85	64.7	32.3	96.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

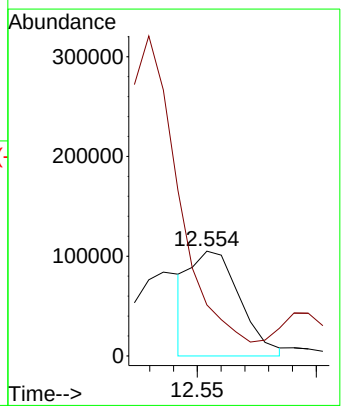


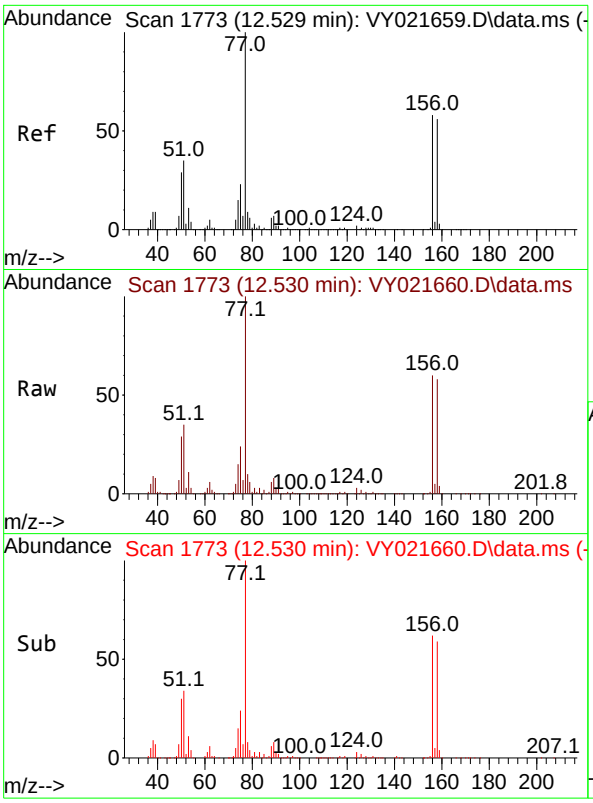


#76
1,2,3-Trichloropropane
Concen: 91.372 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 75 Resp: 152979

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

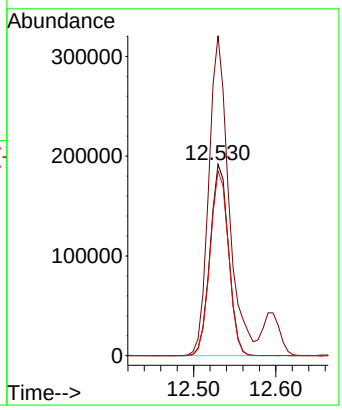




#77
Bromobenzene
Concen: 99.323 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:156 Resp: 29916

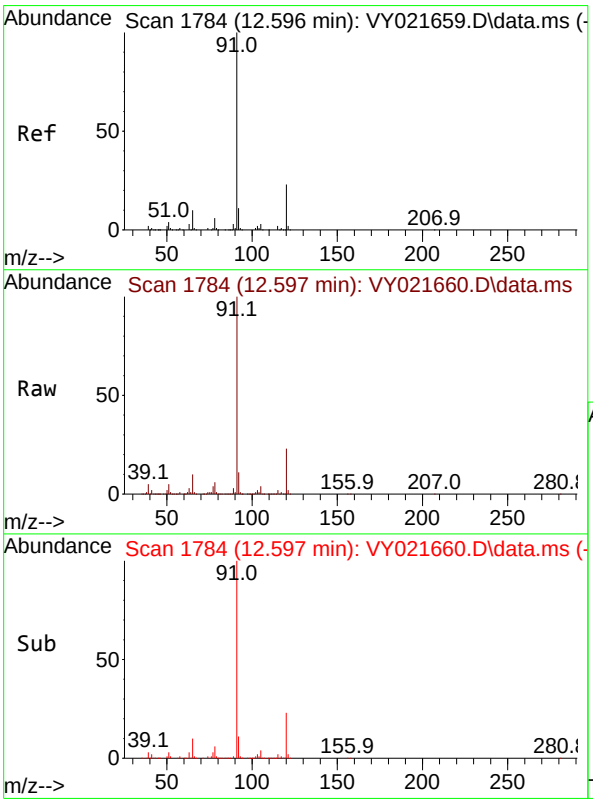
Ion	Ratio	Lower	Upper
156	100		
77	181.1	92.8	278.3
158	96.8	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

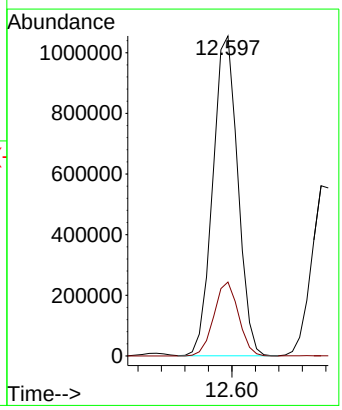
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

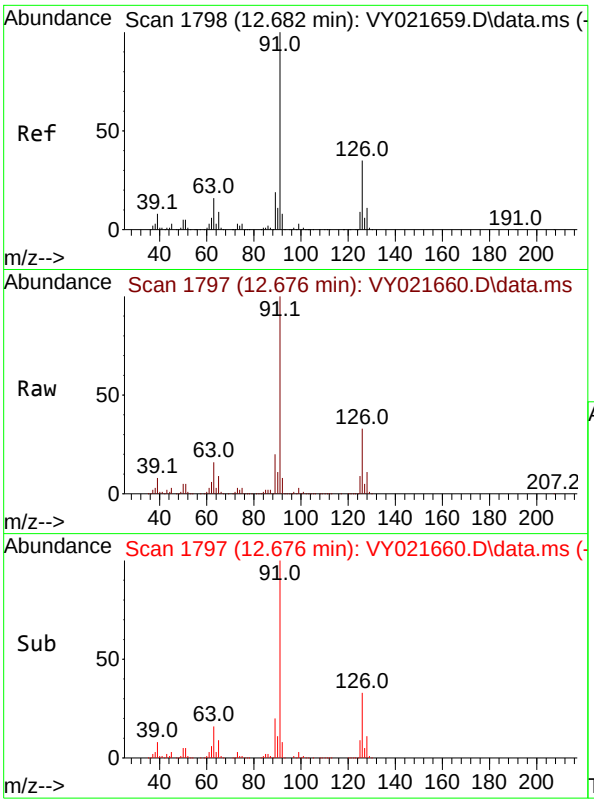


#78
n-propylbenzene
Concen: 103.290 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 91 Resp: 1557825

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.3	33.9

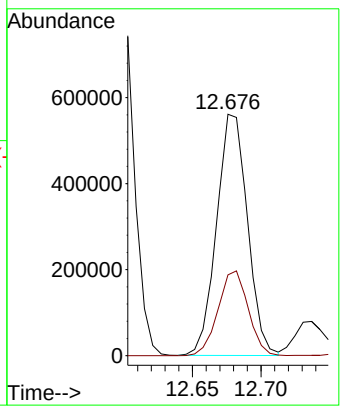




#79
2-Chlorotoluene
Concen: 100.382 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 91 Resp: 87933

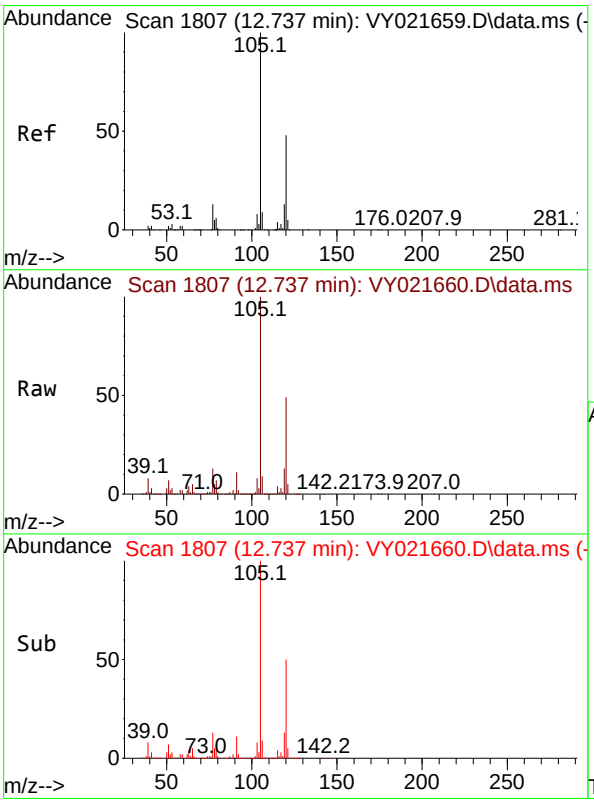
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

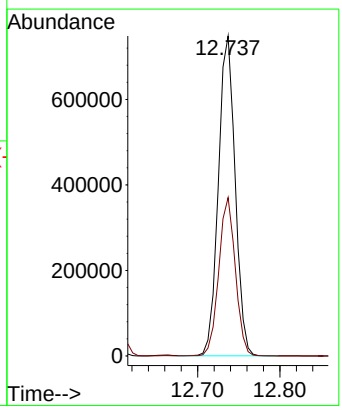
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

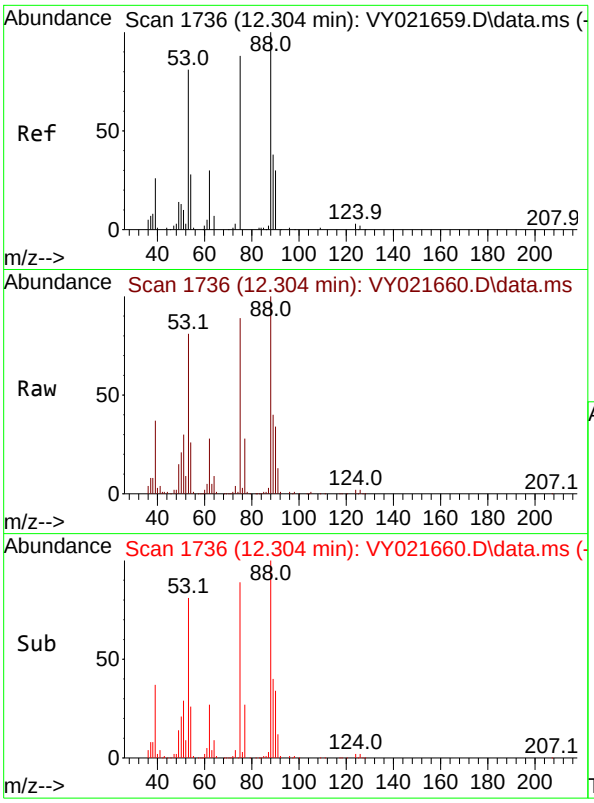


#80
1,3,5-Trimethylbenzene
Concen: 103.480 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:105 Resp: 1060963

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.5	73.5

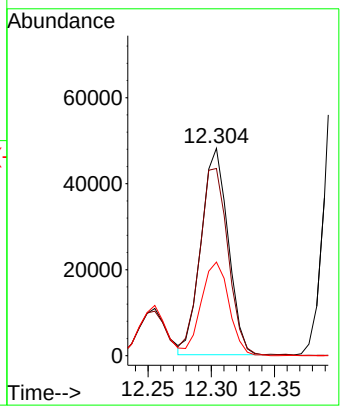




#81
trans-1,4-Dichloro-2-butene
Concen: 98.330 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 75 Resp: 7144

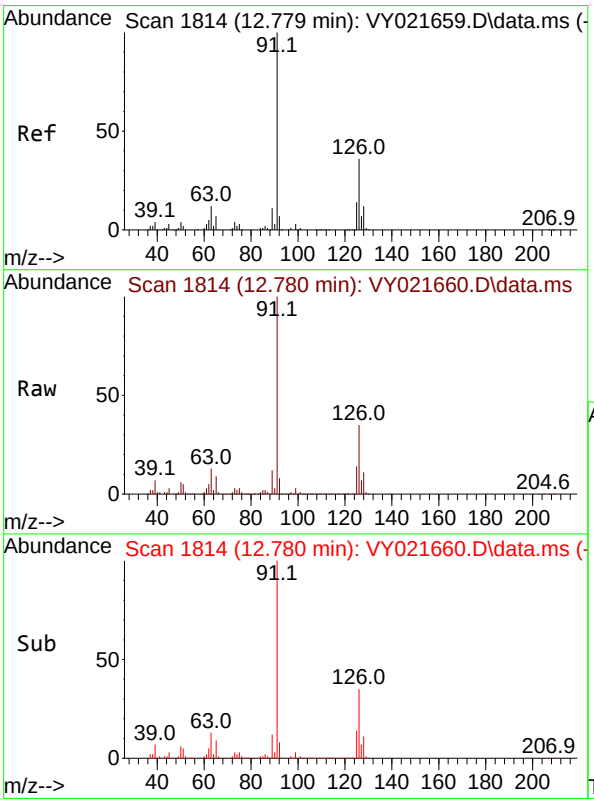
Ion	Ratio	Lower	Upper
75	100		
53	95.8	76.1	114.1
89	46.1	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

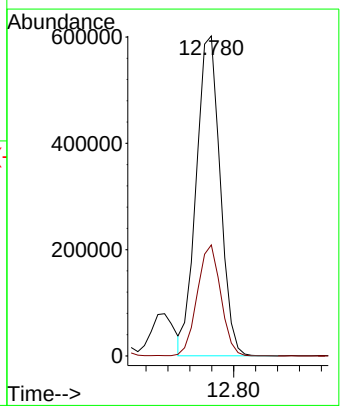
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

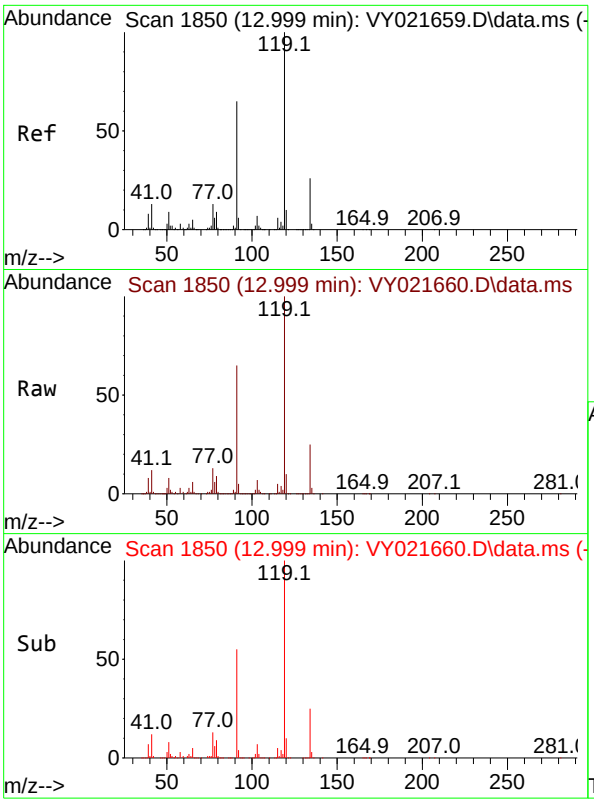


#82
4-Chlorotoluene
Concen: 99.676 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 91 Resp: 910295

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	50.9

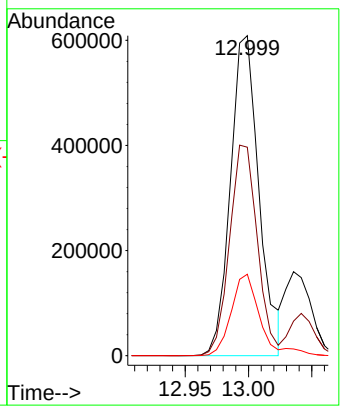




#83
tert-Butylbenzene
Concen: 104.762 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:119 Resp: 95670

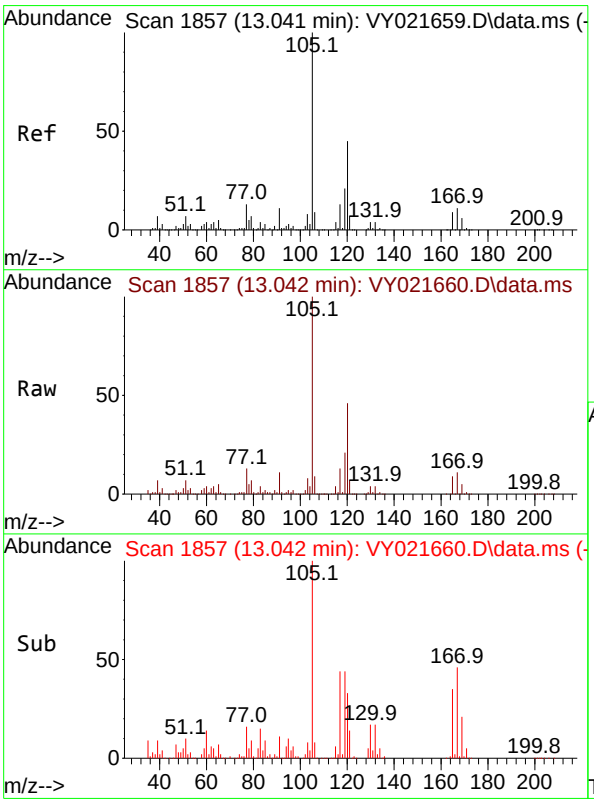
Ion	Ratio	Lower	Upper
119	100		
91	64.2	32.6	97.7
134	25.8	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

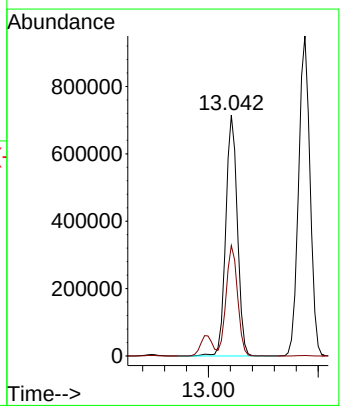
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

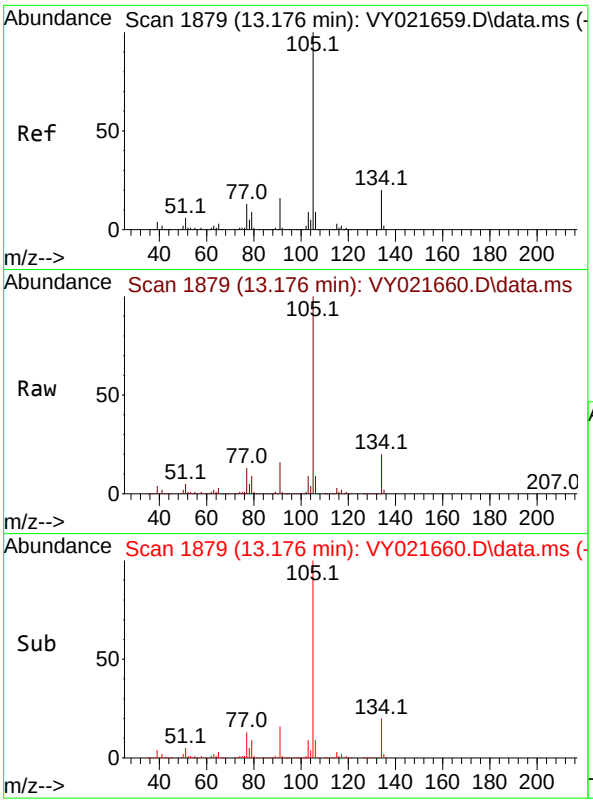


#84
1,2,4-Trimethylbenzene
Concen: 103.880 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:105 Resp: 1052663

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.7	68.1

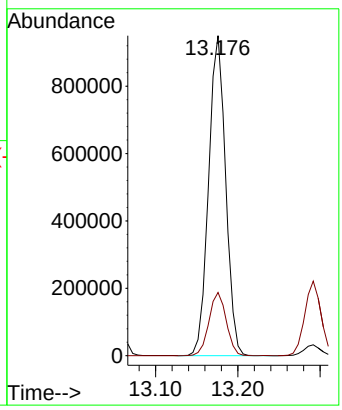




#85
sec-Butylbenzene
Concen: 102.624 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:105 Resp: 136960

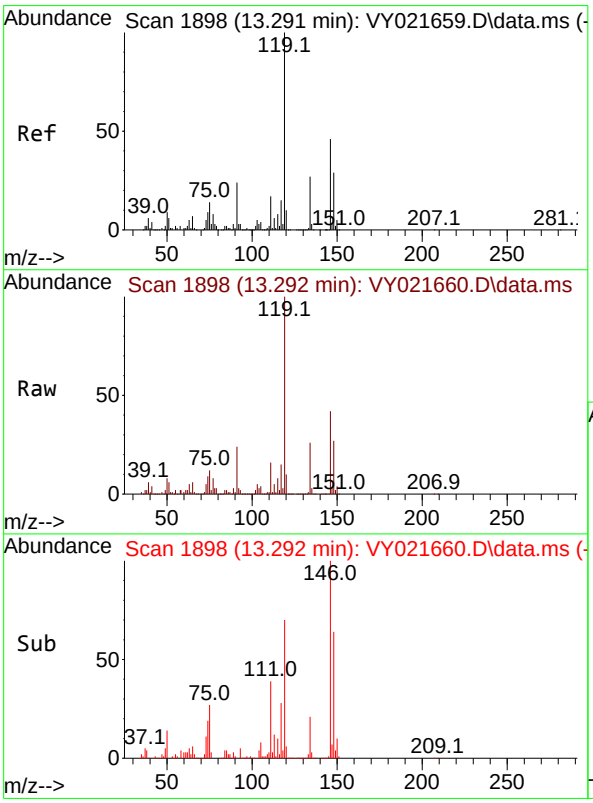
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

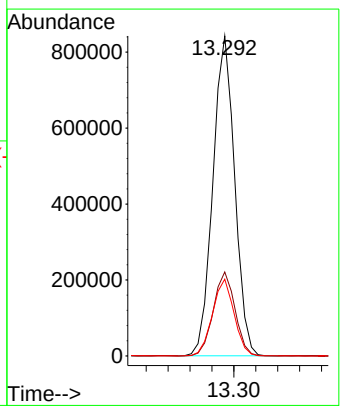
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

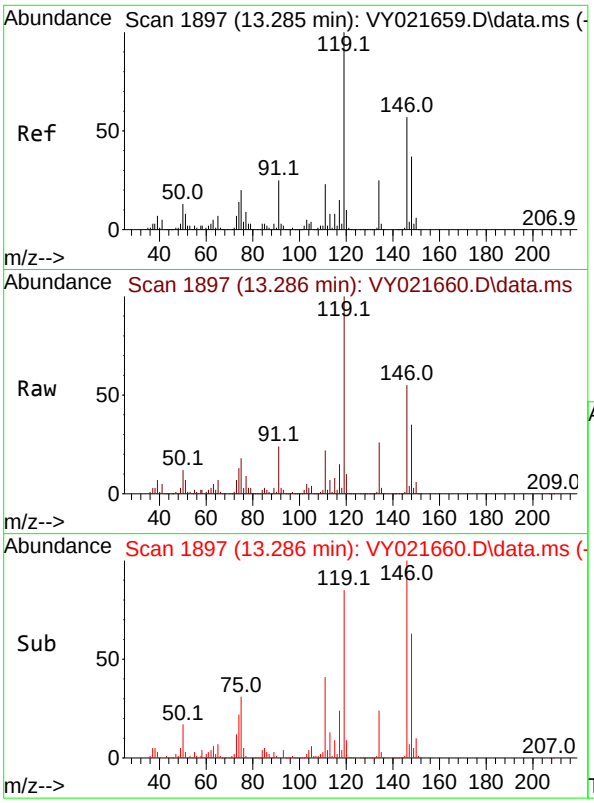


#86
p-Isopropyltoluene
Concen: 105.509 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:119 Resp: 1163796

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.5
91	23.8	12.0	36.0

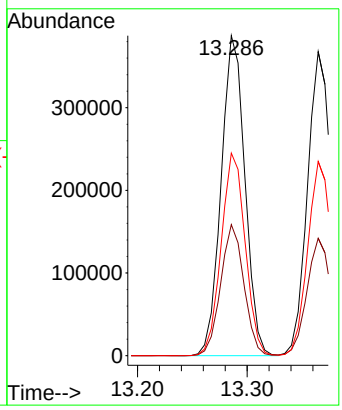




#87
1,3-Dichlorobenzene
Concen: 98.384 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:146 Resp: 58383

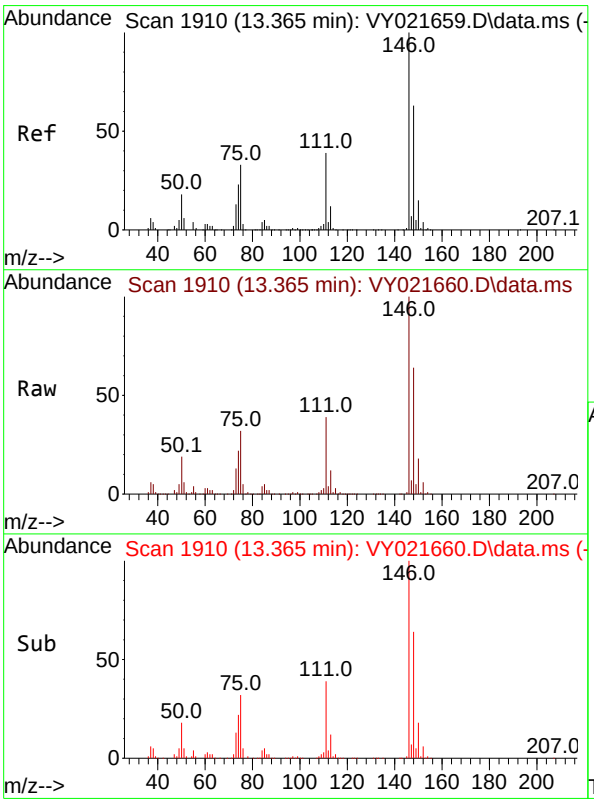
Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.0	60.0
148	63.9	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

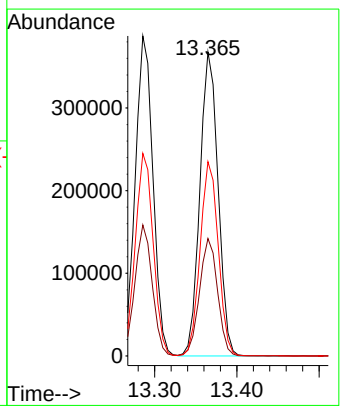
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

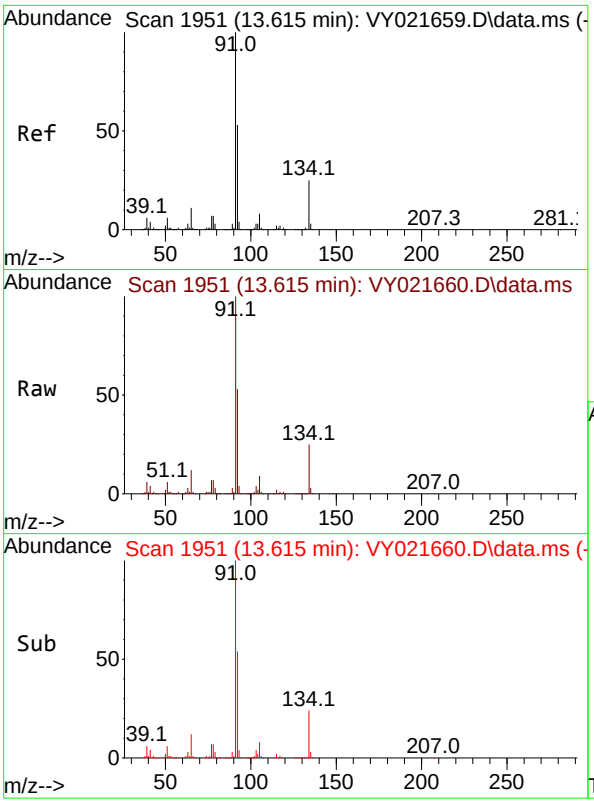


#88
1,4-Dichlorobenzene
Concen: 96.416 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:146 Resp: 565293

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.1
148	63.8	31.5	94.5

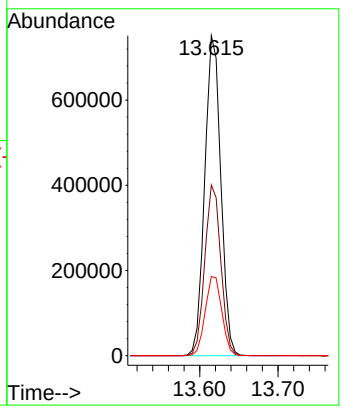




#89
n-Butylbenzene
Concen: 104.828 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 91 Resp: 106935

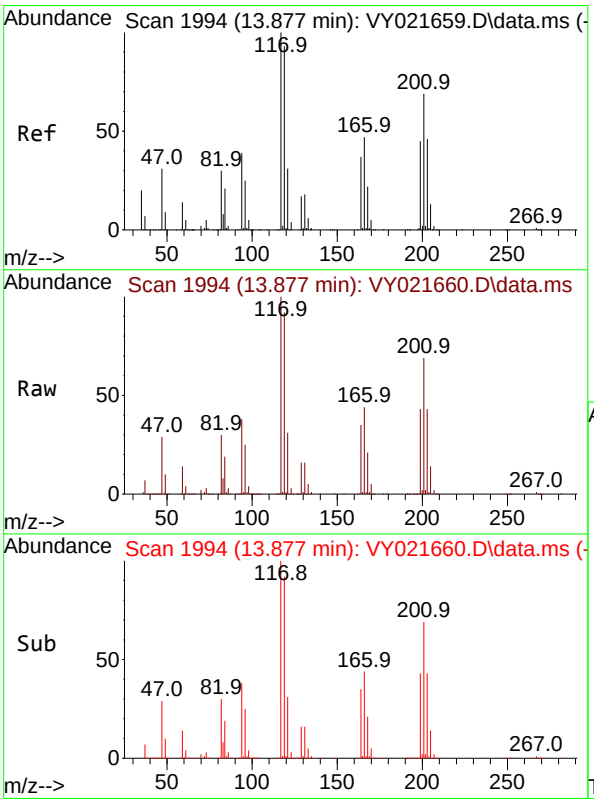
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.4	79.2
134	25.6	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

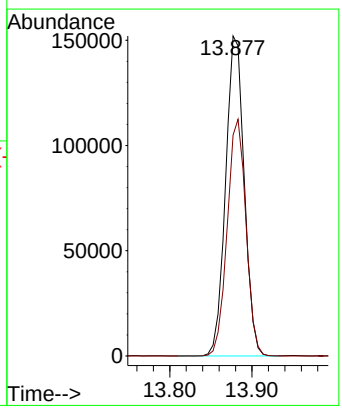
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

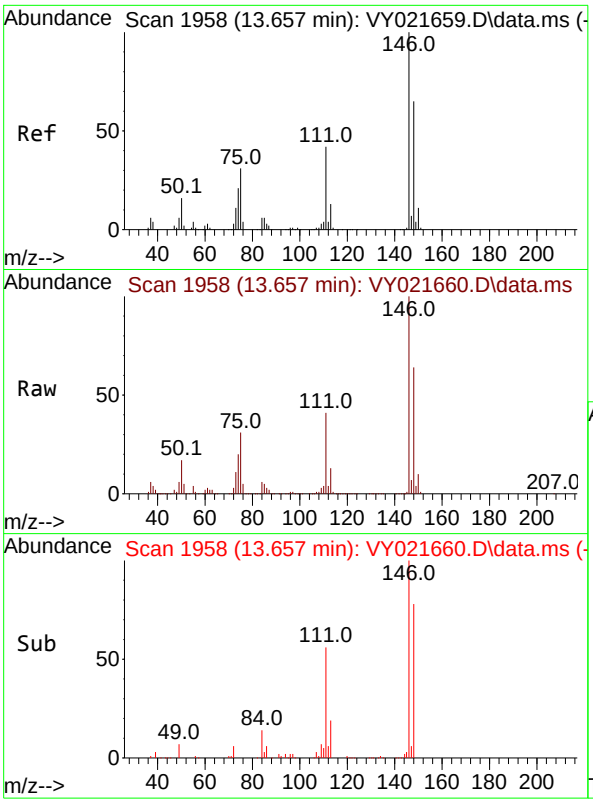


#90
Hexachloroethane
Concen: 99.078 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:117 Resp: 239487

Ion	Ratio	Lower	Upper
117	100		
201	74.5	37.4	112.1

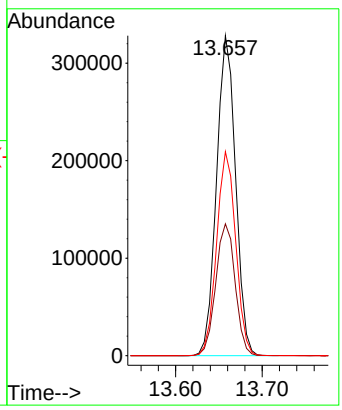




#91
1,2-Dichlorobenzene
Concen: 97.186 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:146 Resp: 5020

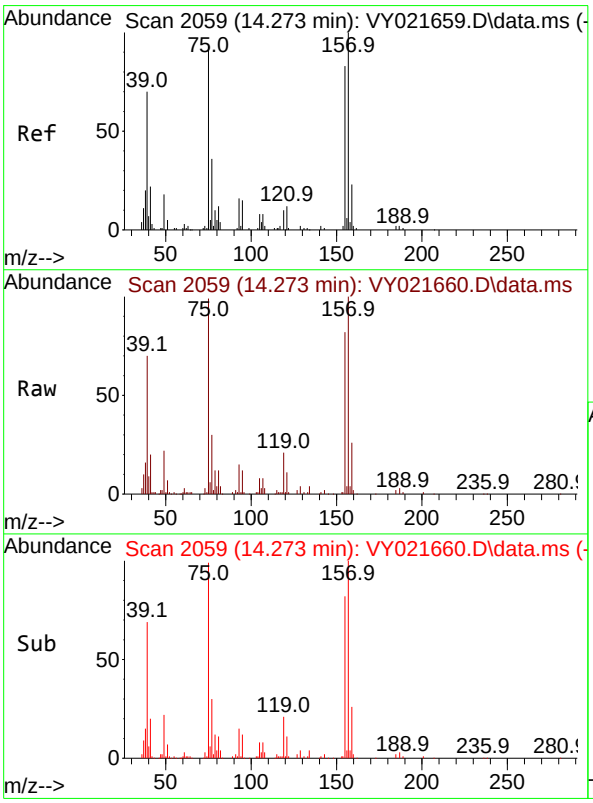
Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.7	62.1
148	64.0	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

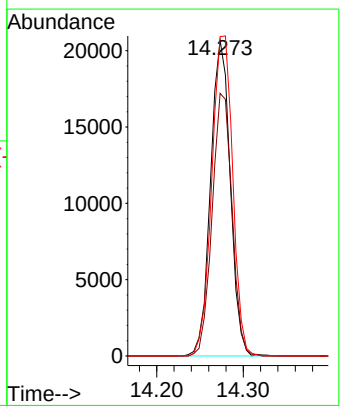
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

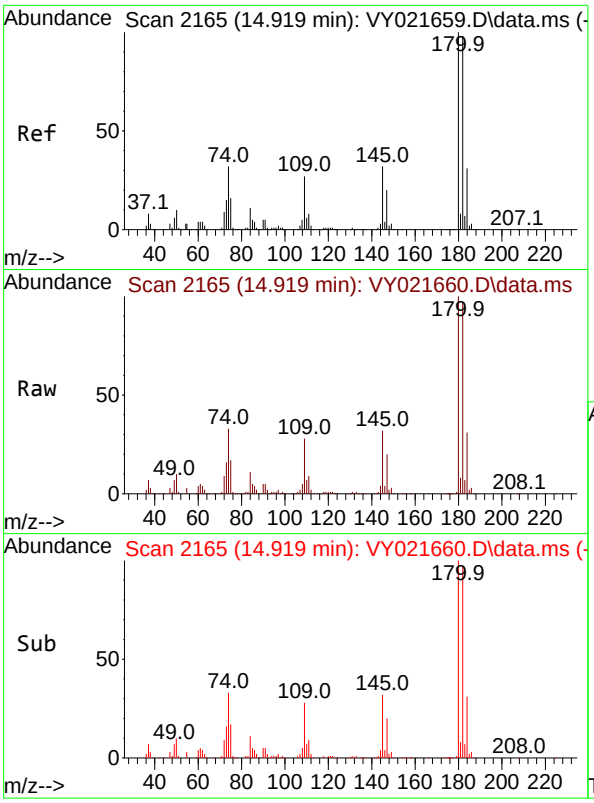


#92
1,2-Dibromo-3-Chloropropane
Concen: 93.136 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion: 75 Resp: 32558

Ion	Ratio	Lower	Upper
75	100		
155	84.2	43.0	128.8
157	107.9	54.0	162.0

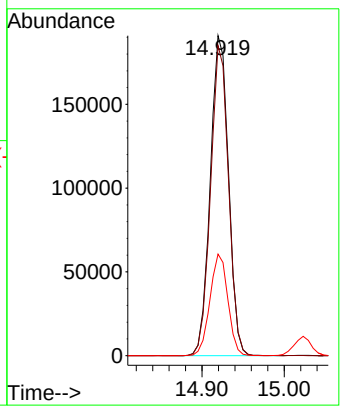




#93
1,2,4-Trichlorobenzene
Concen: 104.943 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:180 Resp: 29398

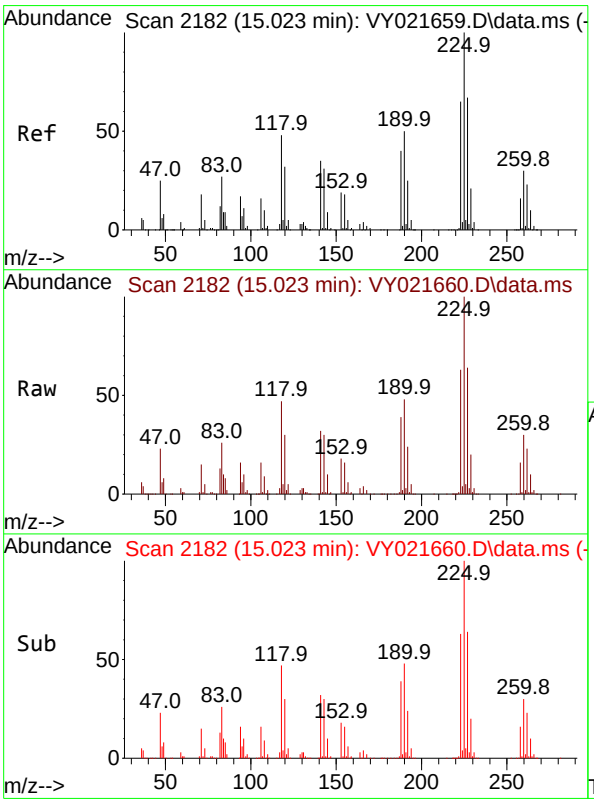
Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.5	142.6
145	31.2	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

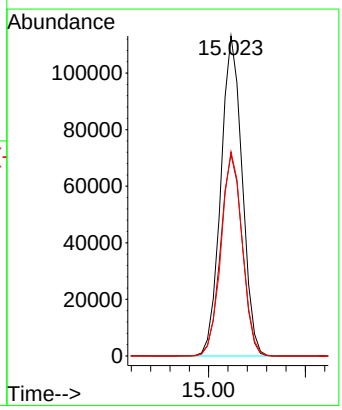
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

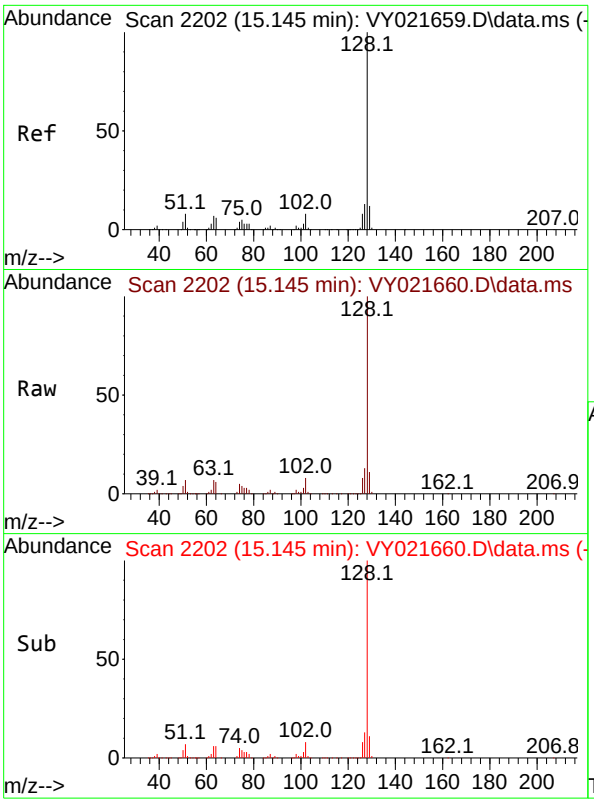


#94
Hexachlorobutadiene
Concen: 98.829 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:225 Resp: 172909

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.7
227	63.5	32.4	97.0

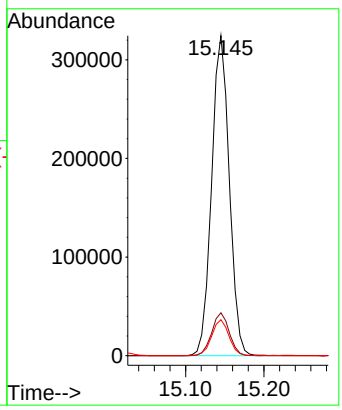




#95
Naphthalene
Concen: 109.498 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:128 Resp: 50844

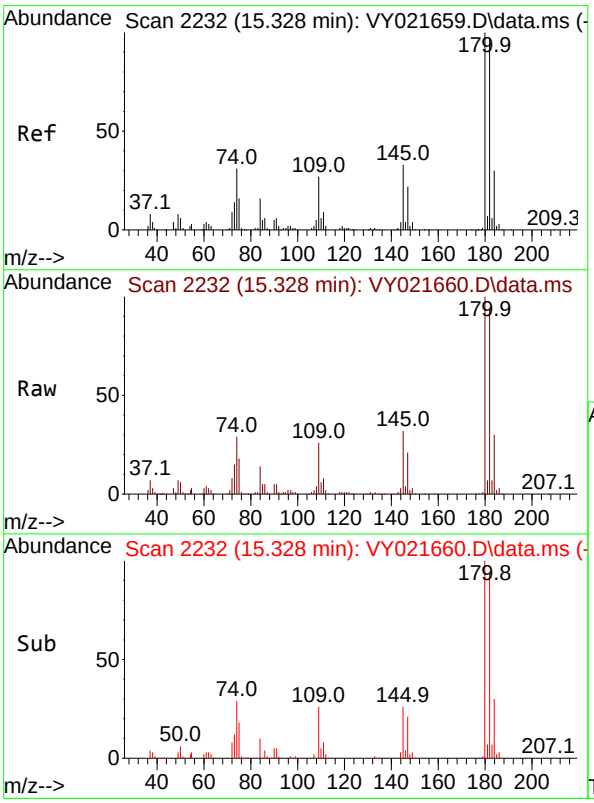
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.8	16.2
129	11.0	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

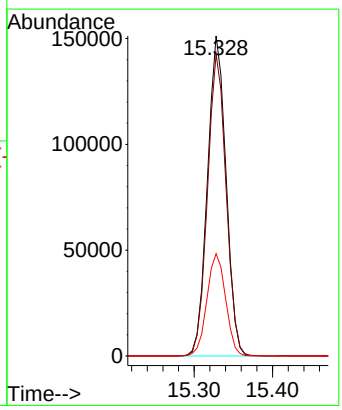
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 104.158 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021660.D
Acq: 27 Mar 2025 11:39

Tgt Ion:180 Resp: 248821

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.5	142.5
145	32.1	15.9	47.7



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021661.D
Acq On : 27 Mar 2025 12:02
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 02:18:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	259676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	412304	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	367282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	177289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	404952	143.931	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 287.860%#			
35) Dibromofluoromethane	7.634	113	387439	144.862	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 289.720%#			
50) Toluene-d8	10.109	98	1485725	146.020	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 292.040%#			
62) 4-Bromofluorobenzene	12.408	95	503406	146.271	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 292.540%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	348314	129.414	ug/l	99
3) Chloromethane	2.068	50	501654	132.551	ug/l	100
4) Vinyl Chloride	2.202	62	555909	129.884	ug/l	99
5) Bromomethane	2.580	94	394188	135.035	ug/l	99
6) Chloroethane	2.727	64	370633	132.337	ug/l	98
7) Trichlorofluoromethane	3.050	101	712314	129.919	ug/l	99
8) Diethyl Ether	3.452	74	206844	138.727	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	368788	127.532	ug/l	99
10) Methyl Iodide	4.001	142	483364	152.366	ug/l	99
11) Tert butyl alcohol	4.860	59	126577	692.642	ug/l	97
12) 1,1-Dichloroethene	3.787	96	371412	136.361	ug/l	97
13) Acrolein	3.647	56	236449	708.604	ug/l	99
14) Allyl chloride	4.379	41	623865	143.656	ug/l	100
15) Acrylonitrile	5.055	53	439757	706.375	ug/l	99
16) Acetone	3.867	43	395370	686.626	ug/l	99
17) Carbon Disulfide	4.104	76	1209296	134.797	ug/l	99
18) Methyl Acetate	4.379	43	199951	140.110	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	1006156	148.374	ug/l	98
20) Methylene Chloride	4.616	84	400434	149.840	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	417906	139.351	ug/l	98
22) Diisopropyl ether	6.019	45	1325167	145.463	ug/l	98
23) Vinyl Acetate	5.958	43	3993494	749.332	ug/l	99
24) 1,1-Dichloroethane	5.915	63	753930	138.403	ug/l	100
25) 2-Butanone	6.890	43	603028	733.215	ug/l	99
26) 2,2-Dichloropropane	6.884	77	678134	139.949	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	490349	145.395	ug/l	99
28) Bromochloromethane	7.244	49	313542	136.480	ug/l	99
29) Tetrahydrofuran	7.262	42	379413	716.799	ug/l	98
30) Chloroform	7.421	83	779319	137.548	ug/l	98
31) Cyclohexane	7.701	56	637533	128.388	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	696016	135.918	ug/l	99
36) 1,1-Dichloropropene	7.835	75	556974	136.722	ug/l	99
37) Ethyl Acetate	6.982	43	259188	134.812	ug/l	100
38) Carbon Tetrachloride	7.817	117	627331	134.452	ug/l	98
39) Methylcyclohexane	9.110	83	679694	139.666	ug/l	99
40) Benzene	8.079	78	1695962	139.014	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021661.D
Acq On : 27 Mar 2025 12:02
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 02:18:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.220	41	143387	140.447 ug/l #	100
42) 1,2-Dichloroethane	8.158	62	468317	136.165 ug/l	100
43) Isopropyl Acetate	8.195	43	527316	144.731 ug/l #	87
44) Trichloroethene	8.866	130	430629	138.536 ug/l	99
45) 1,2-Dichloropropane	9.140	63	401955	139.191 ug/l	99
46) Dibromomethane	9.231	93	228287	137.167 ug/l	98
47) Bromodichloromethane	9.420	83	598421	138.764 ug/l	98
48) Methyl methacrylate	9.219	41	251339	150.306 ug/l	99
49) 1,4-Dioxane	9.225	88	53338	2991.658 ug/l	94
51) 4-Methyl-2-Pentanone	10.000	43	1397678	737.160 ug/l	100
52) Toluene	10.170	92	1094229	143.758 ug/l	99
53) t-1,3-Dichloropropene	10.390	75	570388	148.908 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	660476	146.159 ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	296412	138.396 ug/l	99
56) Ethyl methacrylate	10.439	69	443517	162.176 ug/l	98
57) 1,3-Dichloropropane	10.719	76	517706	139.961 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	1061779	795.867 ug/l	100
59) 2-Hexanone	10.762	43	955051	756.341 ug/l	99
60) Dibromochloromethane	10.908	129	417230	142.682 ug/l	99
61) 1,2-Dibromoethane	11.018	107	283453	141.082 ug/l	98
64) Tetrachloroethene	10.646	164	421368	125.966 ug/l	98
65) Chlorobenzene	11.444	112	1182770	140.483 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	420924	140.910 ug/l	100
67) Ethyl Benzene	11.518	91	2131884	147.665 ug/l	100
68) m/p-Xylenes	11.627	106	1610305	291.277 ug/l	100
69) o-Xylene	11.957	106	764721	149.852 ug/l	98
70) Styrene	11.969	104	1300778	152.877 ug/l	99
71) Bromoform	12.133	173	244045	143.224 ug/l #	99
73) Isopropylbenzene	12.255	105	1969094	149.537 ug/l	99
74) N-amyl acetate	12.072	43	498903	161.437 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	335483	141.706 ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	249855m	142.174 ug/l	
77) Bromobenzene	12.530	156	461221	145.881 ug/l	99
78) n-propylbenzene	12.597	91	2344286	148.082 ug/l	100
79) 2-Chlorotoluene	12.682	91	1343328	146.095 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1607812	149.397 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	119086	156.137 ug/l	99
82) 4-Chlorotoluene	12.780	91	1386233	144.608 ug/l	100
83) tert-Butylbenzene	12.999	119	1444053	150.647 ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1616812	152.003 ug/l	100
85) sec-Butylbenzene	13.176	105	2052157	146.493 ug/l	99
86) p-Isopropyltoluene	13.292	119	1769866	152.863 ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	898070	144.177 ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	864599	140.489 ug/l	99
89) n-Butylbenzene	13.615	91	1609064	150.273 ug/l	99
90) Hexachloroethane	13.883	117	363244	143.167 ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	779021	143.668 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	54066	147.345 ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	472845	160.803 ug/l	99
94) Hexachlorobutadiene	15.023	225	261678	142.491 ug/l	98
95) Naphthalene	15.145	128	859499	176.342 ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	400315	159.646 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021661.D
Acq On : 27 Mar 2025 12:02
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 02:18:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

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

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

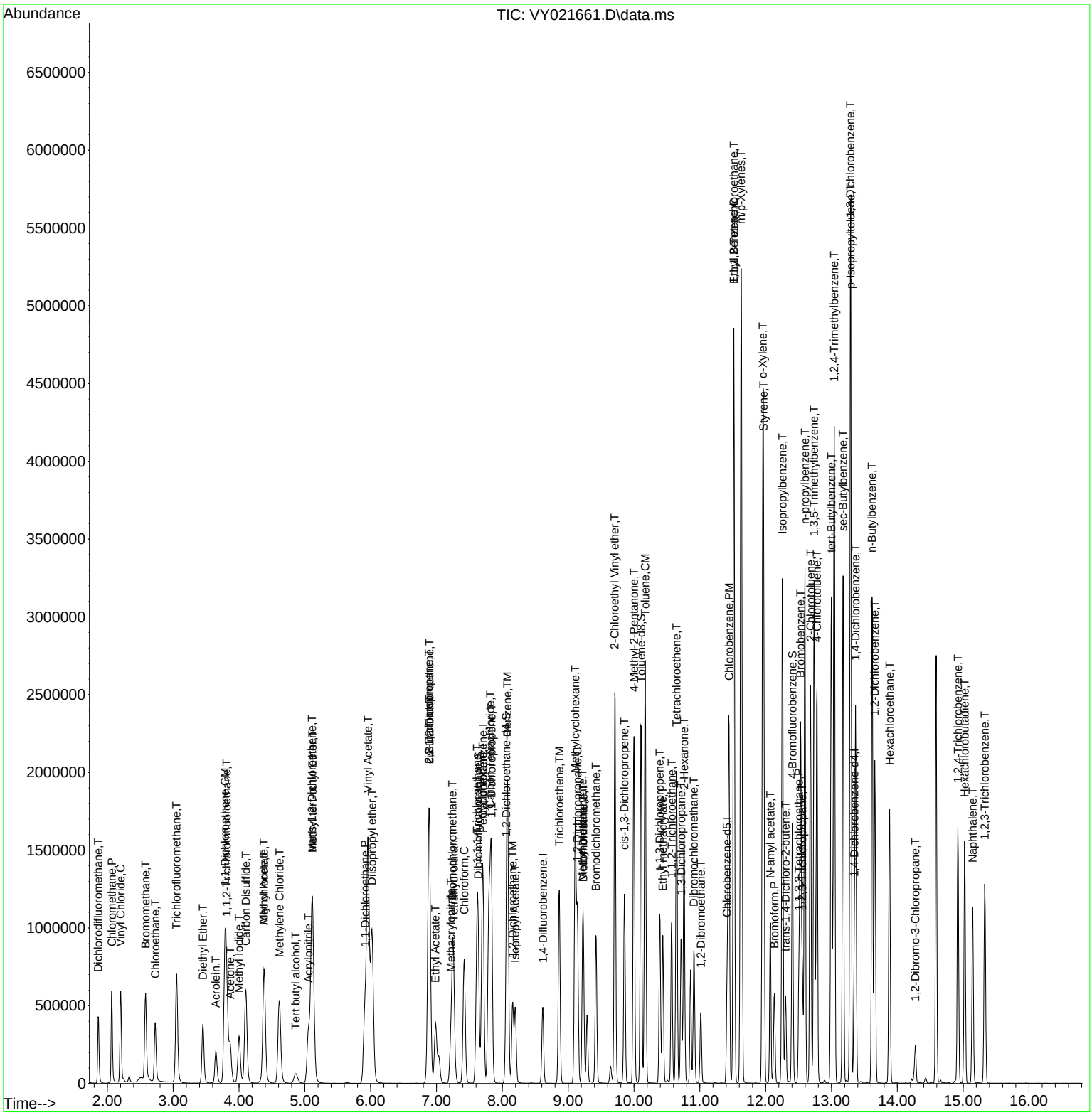
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021661.D
Acq On : 27 Mar 2025 12:02
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

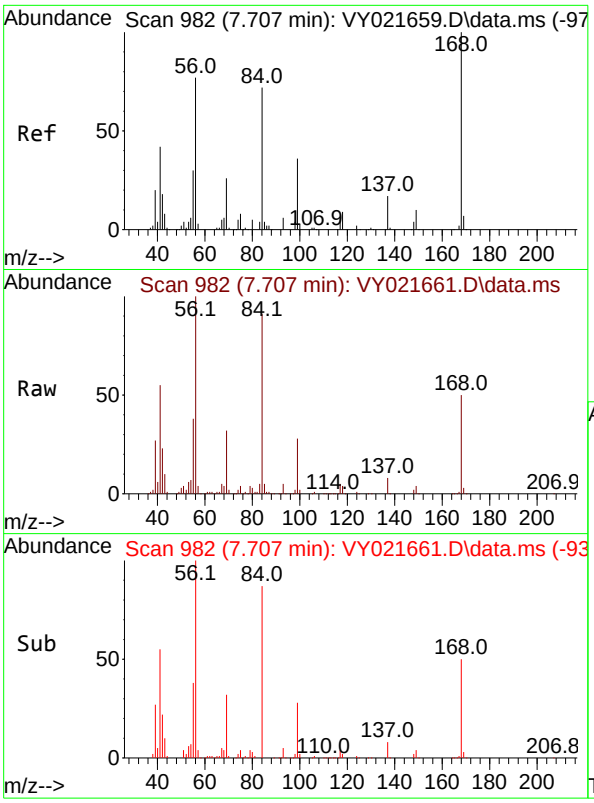
Quant Time: Mar 28 02:18:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:08:57 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

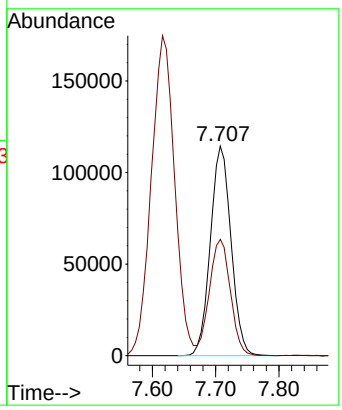




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:168 Resp: 25967

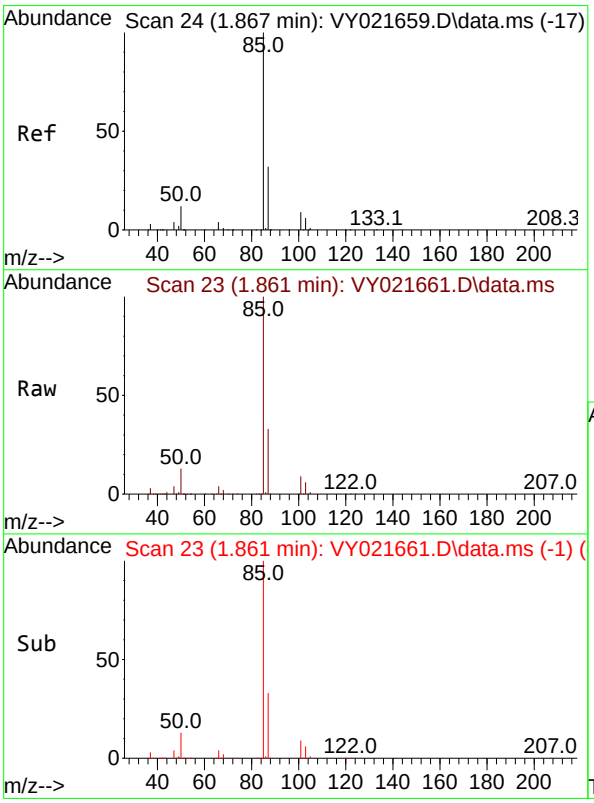
Ion	Ratio	Lower	Upper
168	100		
99	55.5	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

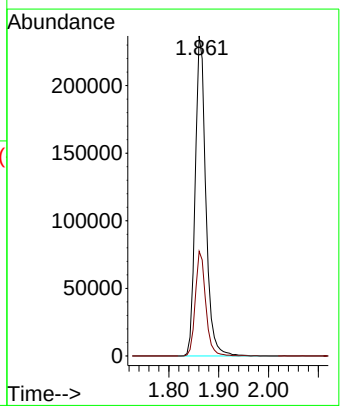
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

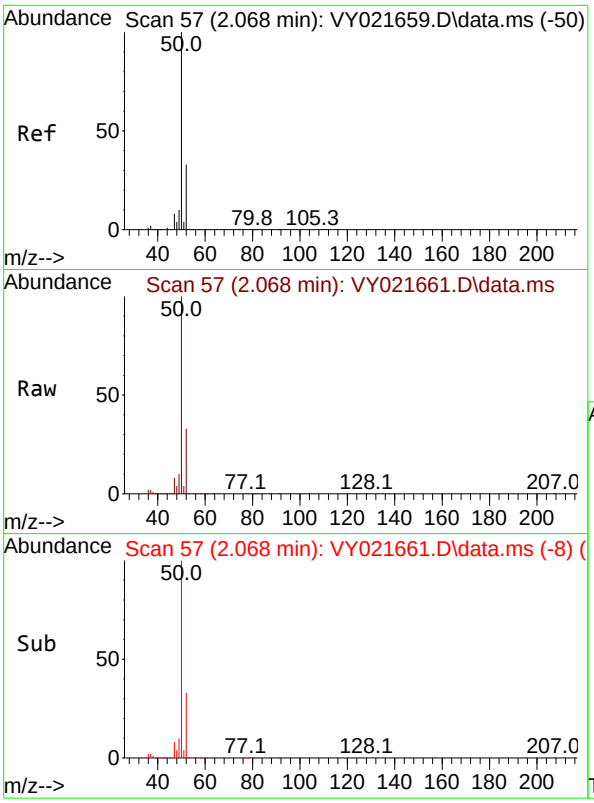


#2
Dichlorodifluoromethane
Concen: 129.414 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 85 Resp: 348314

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.2	48.6

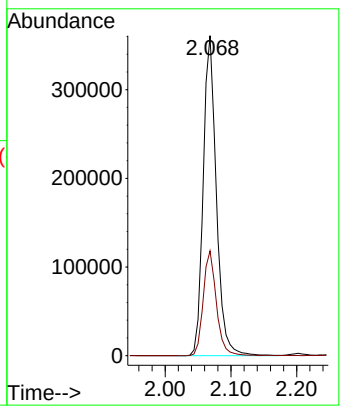




#3
Chloromethane
Concen: 132.551 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 50 Resp: 50165

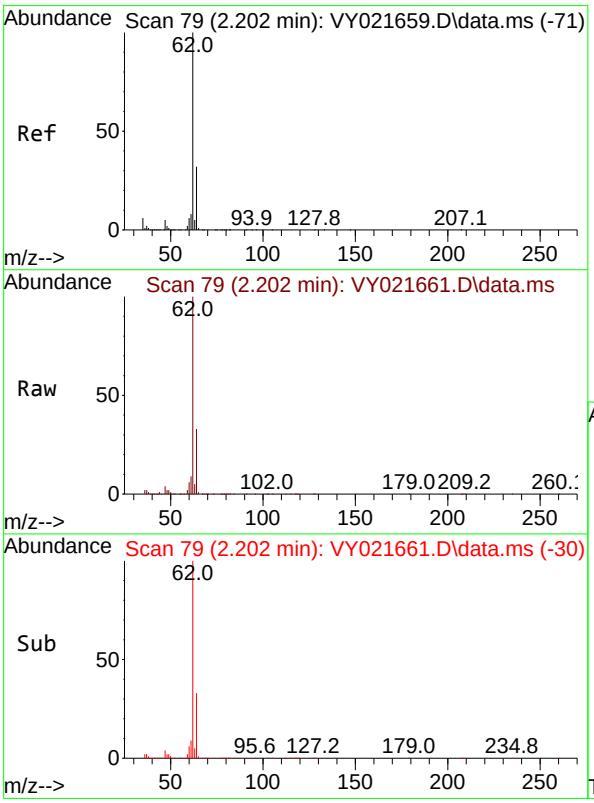
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

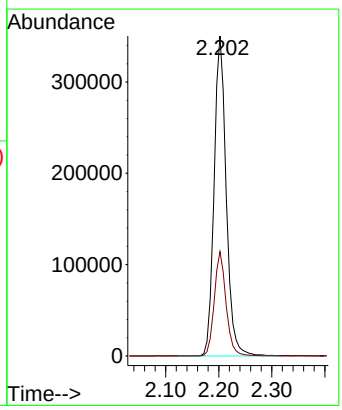
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

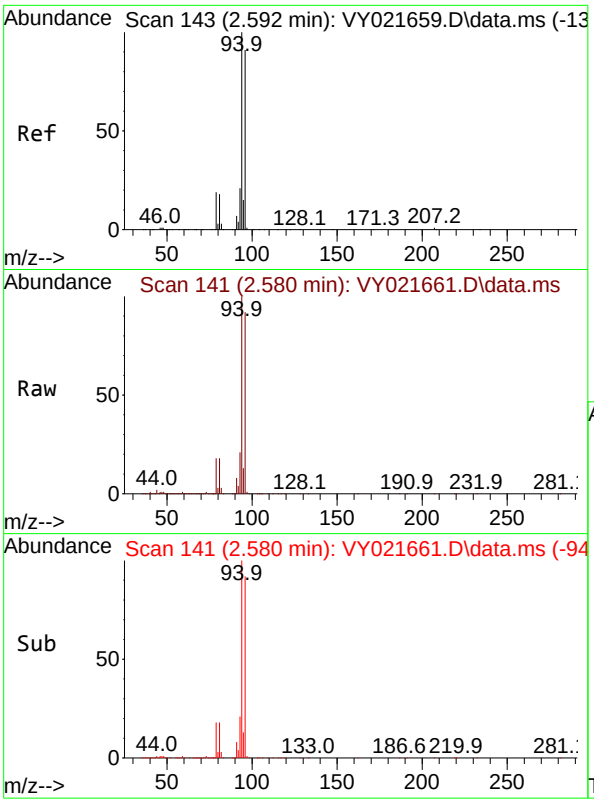


#4
Vinyl Chloride
Concen: 129.884 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 62 Resp: 555909

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.5	38.3





#5
Bromomethane
Concen: 135.035 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

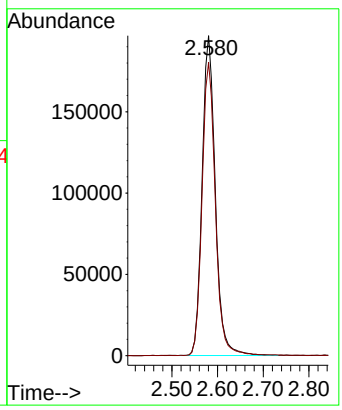
Tgt Ion: 94 Resp: 39418

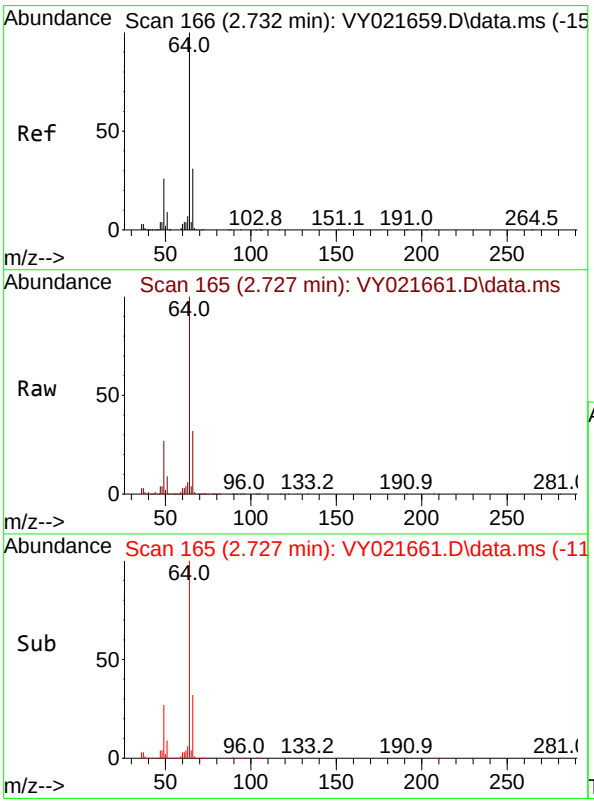
Ion	Ratio	Lower	Upper
94	100		
96	91.6	72.8	109.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

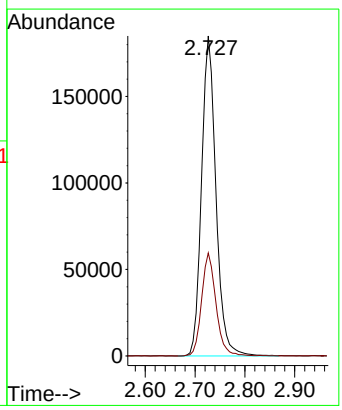


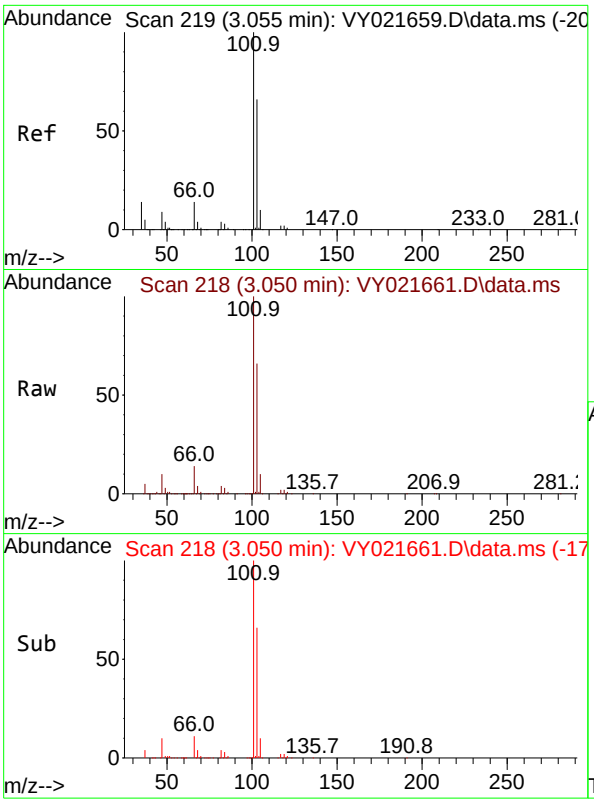


#6
Chloroethane
Concen: 132.337 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 64 Resp: 370633

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.9	37.3

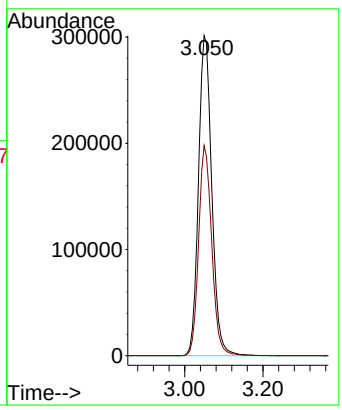




#7
Trichlorofluoromethane
Concen: 129.919 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:101 Resp: 71231

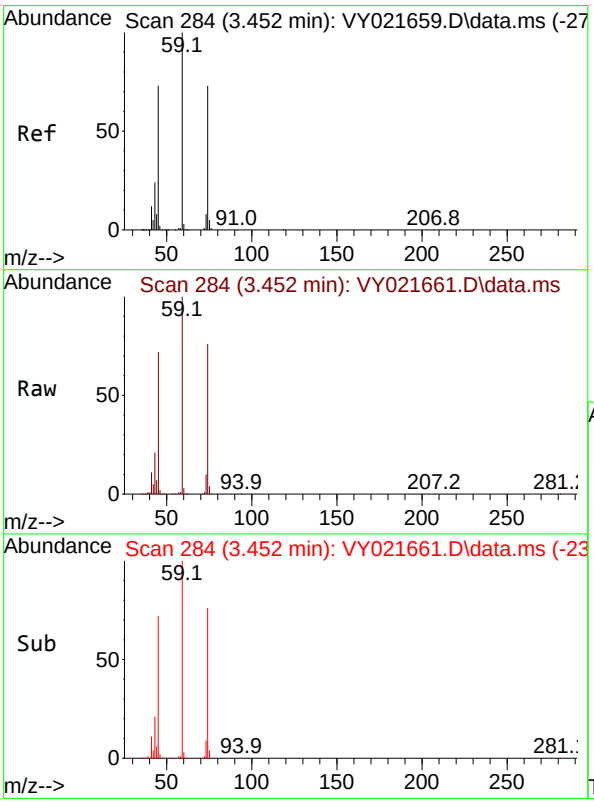
Ion	Ratio	Lower	Upper
101	100		
103	65.6	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

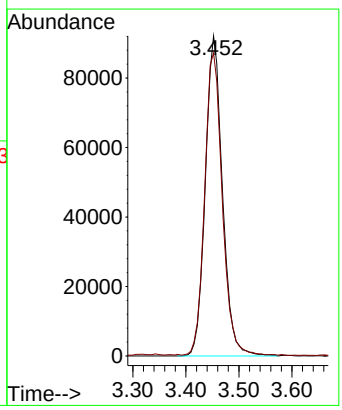
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

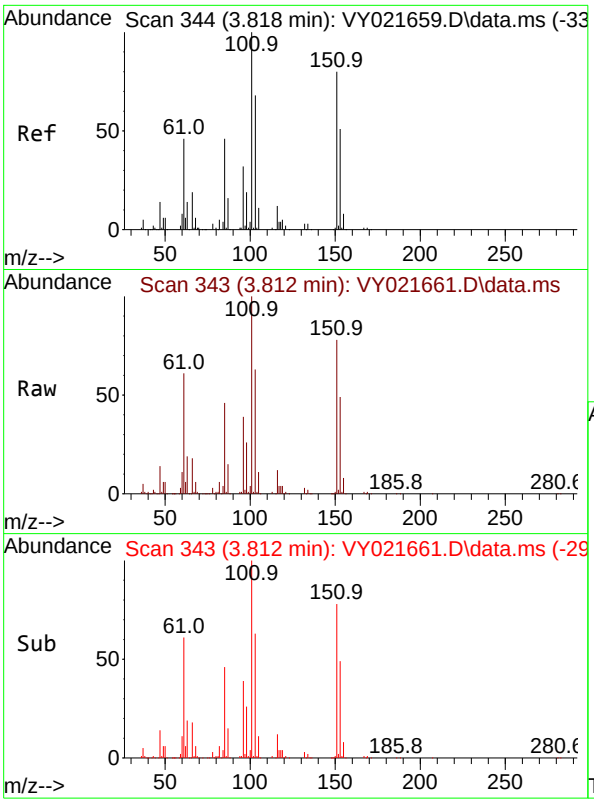


#8
Diethyl Ether
Concen: 138.727 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 74 Resp: 206844

Ion	Ratio	Lower	Upper
74	100		
45	96.9	48.6	145.8

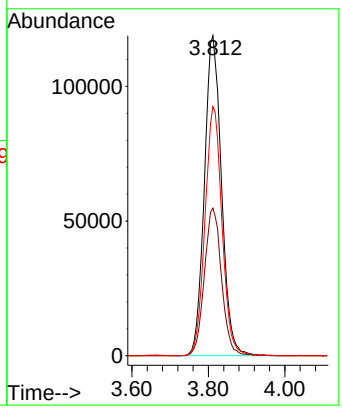




#9
1,1,2-Trichlorotrifluoroethane
Concen: 127.532 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:101 Resp: 36878

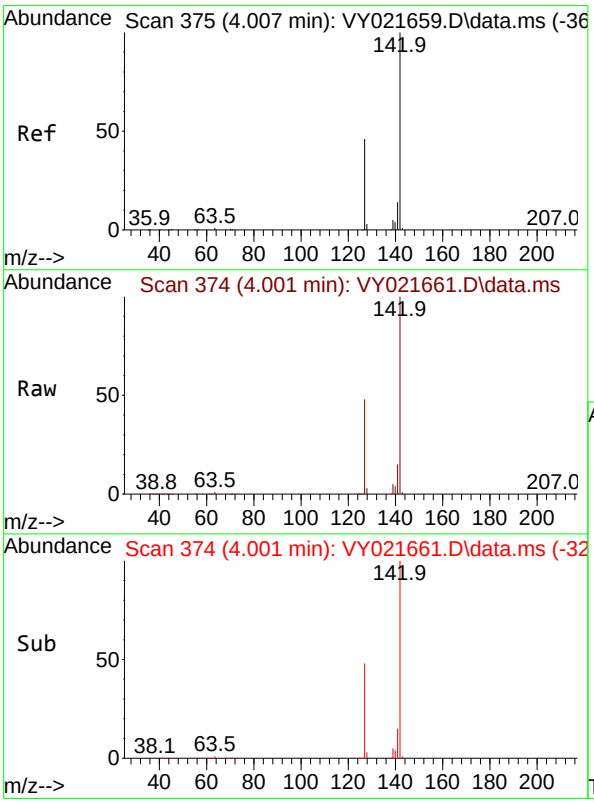
Ion	Ratio	Lower	Upper
101	100		
85	46.2	36.3	54.5
151	77.5	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

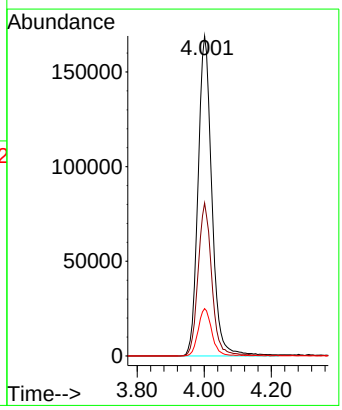
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

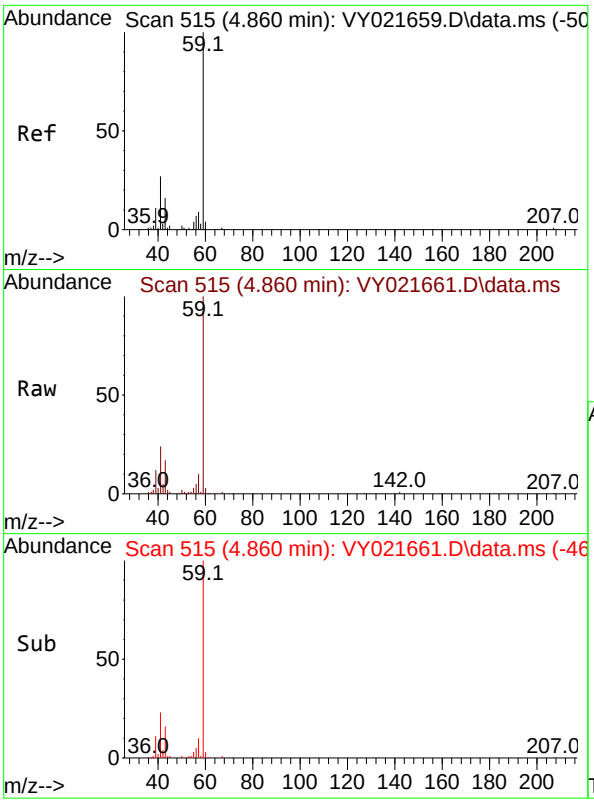


#10
Methyl Iodide
Concen: 152.366 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:142 Resp: 483364

Ion	Ratio	Lower	Upper
142	100		
127	47.4	38.7	58.1
141	14.5	11.5	17.3

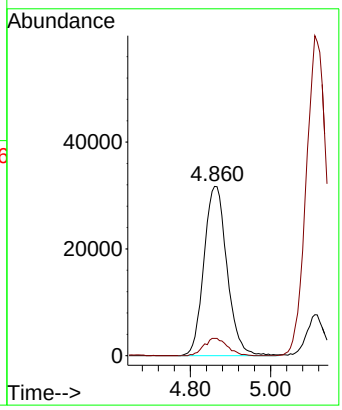




#11
Tert butyl alcohol
Concen: 692.642 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 59 Resp: 12657

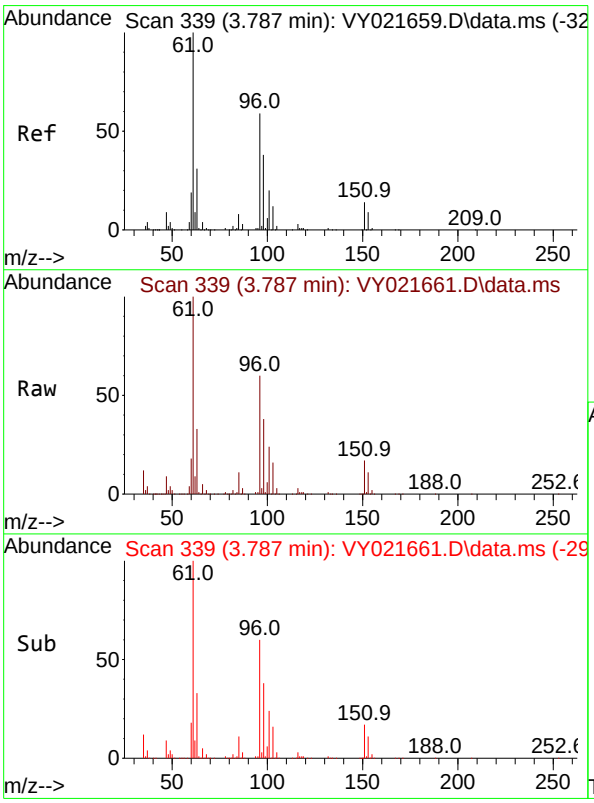
Ion	Ratio	Lower	Upper
59	100		
57	10.5	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

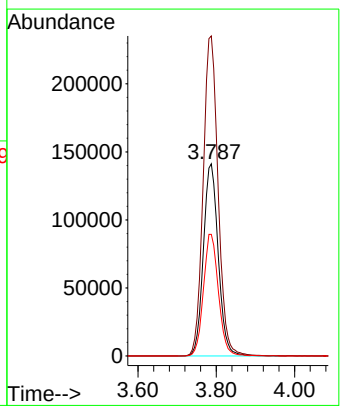
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

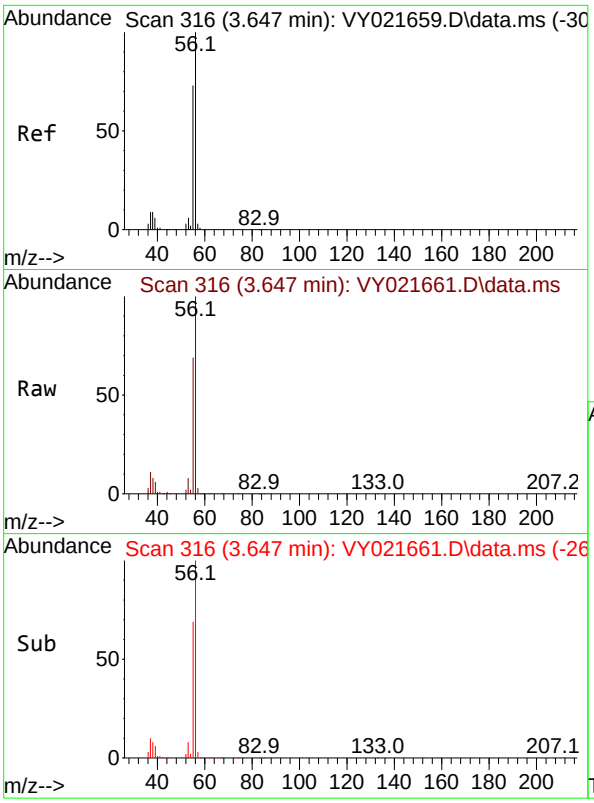


#12
1,1-Dichloroethene
Concen: 136.361 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 96 Resp: 371412

Ion	Ratio	Lower	Upper
96	100		
61	166.5	136.6	204.8
98	63.3	52.3	78.5

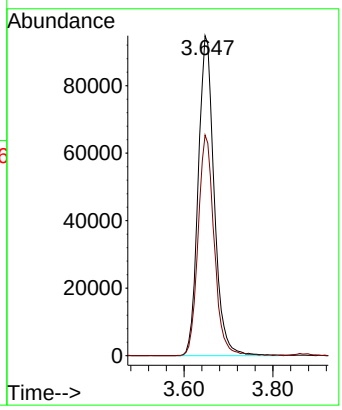




#13
Acrolein
Concen: 708.604 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 56 Resp: 23644

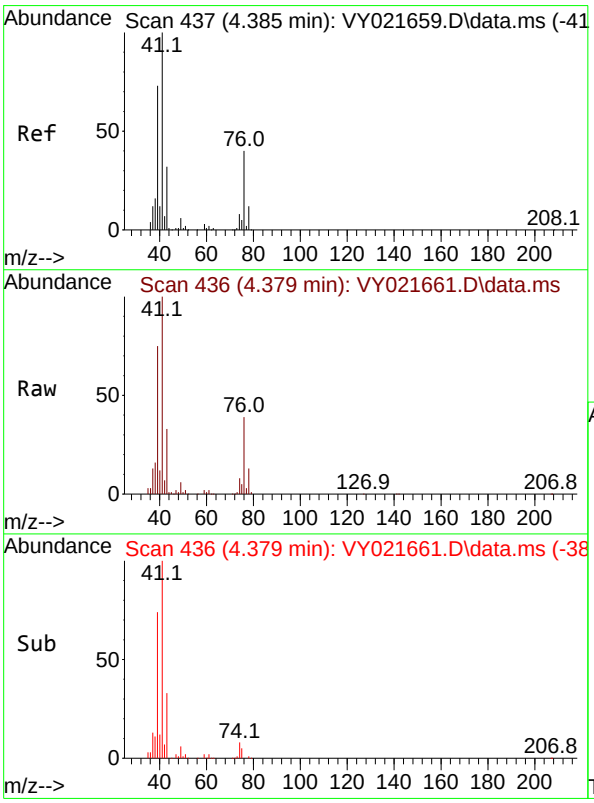
Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

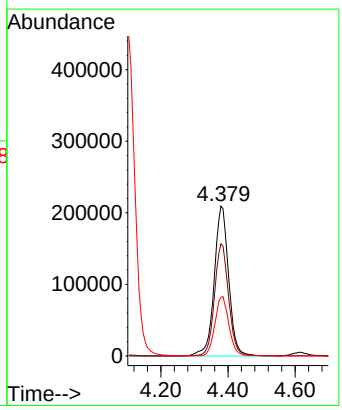
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

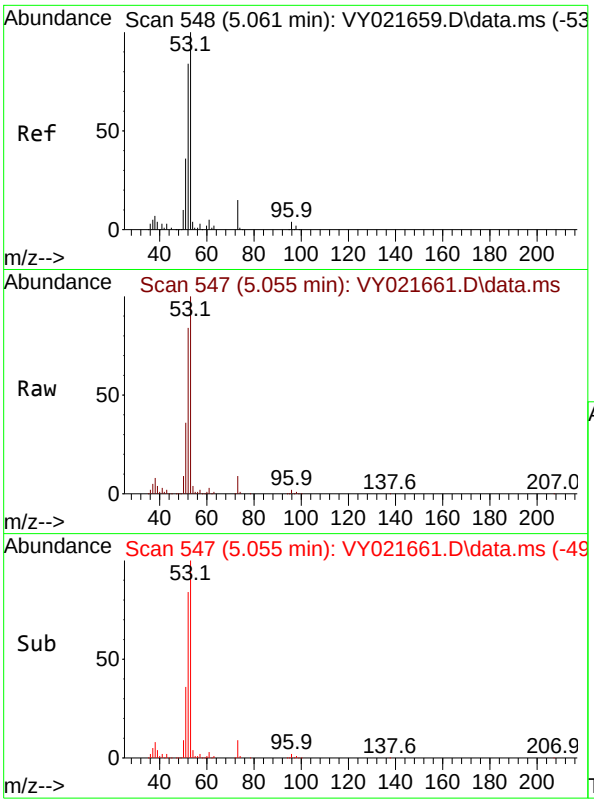


#14
Allyl chloride
Concen: 143.656 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 41 Resp: 623865

Ion	Ratio	Lower	Upper
41	100		
39	73.5	58.6	88.0
76	38.2	30.3	45.5

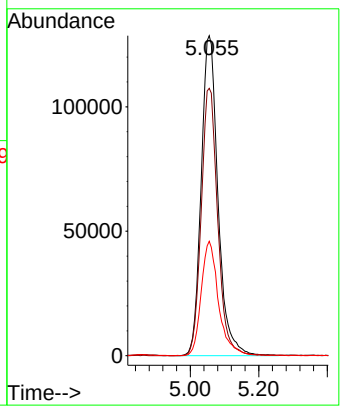




#15
Acrylonitrile
Concen: 706.375 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 53 Resp: 43975

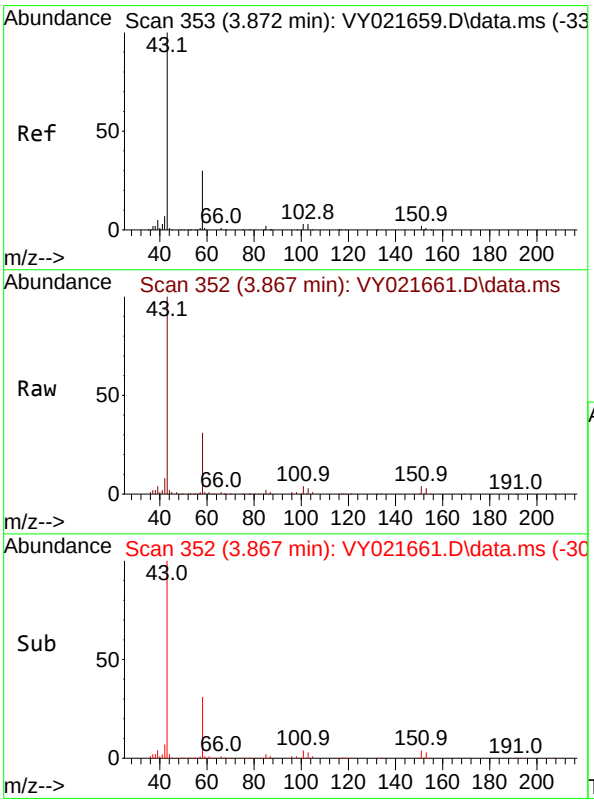
Ion	Ratio	Lower	Upper
53	100		
52	82.0	64.9	97.3
51	37.0	30.2	45.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

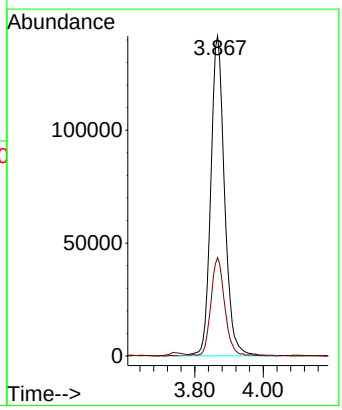
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

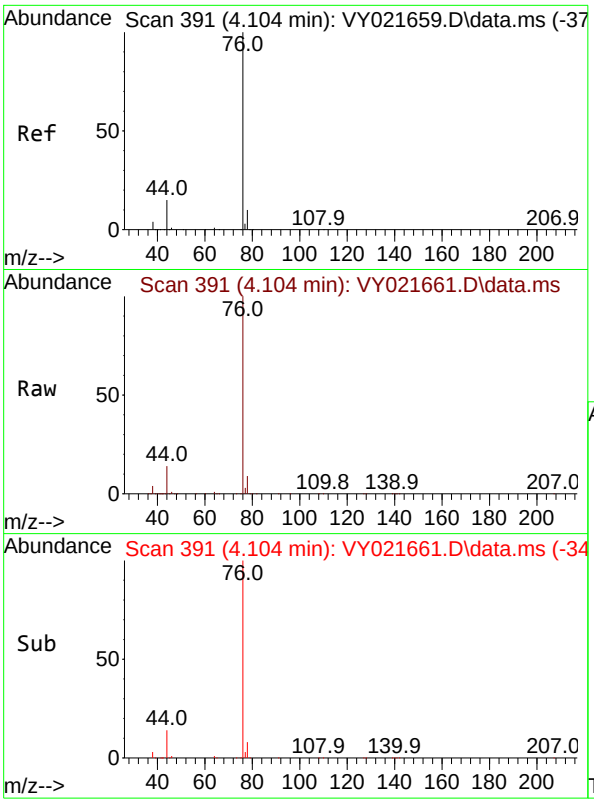


#16
Acetone
Concen: 686.626 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 43 Resp: 395370

Ion	Ratio	Lower	Upper
43	100		
58	30.7	24.2	36.4

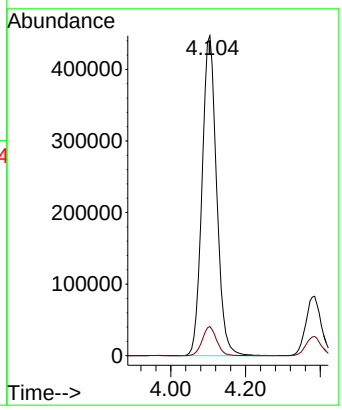




#17
Carbon Disulfide
Concen: 134.797 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 76 Resp: 120929

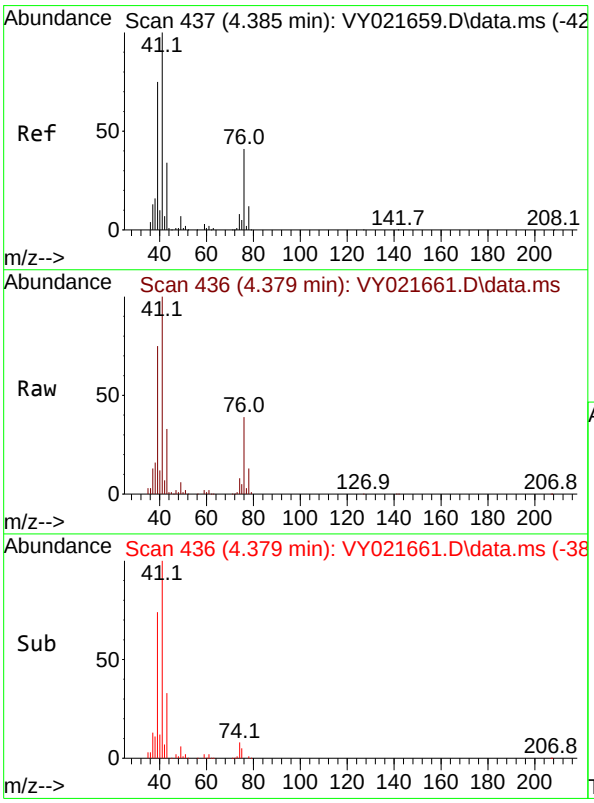
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

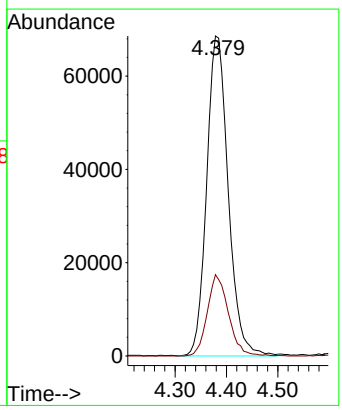
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

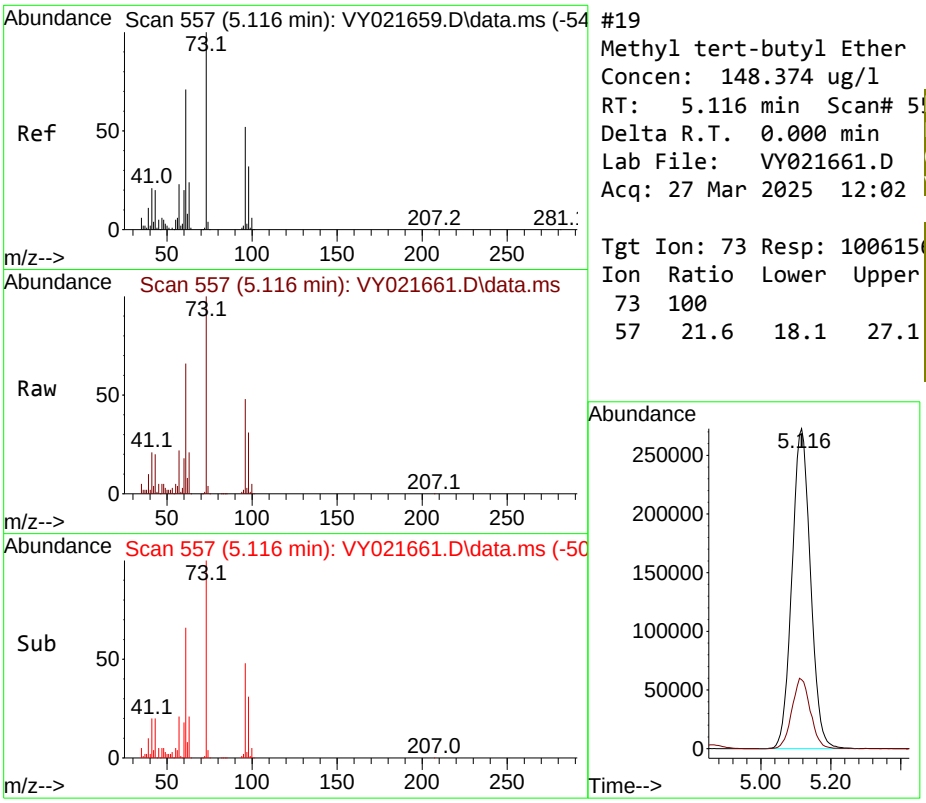


#18
Methyl Acetate
Concen: 140.110 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 43 Resp: 199951

Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.1	28.7





#19
Methyl tert-butyl Ether
Concen: 148.374 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

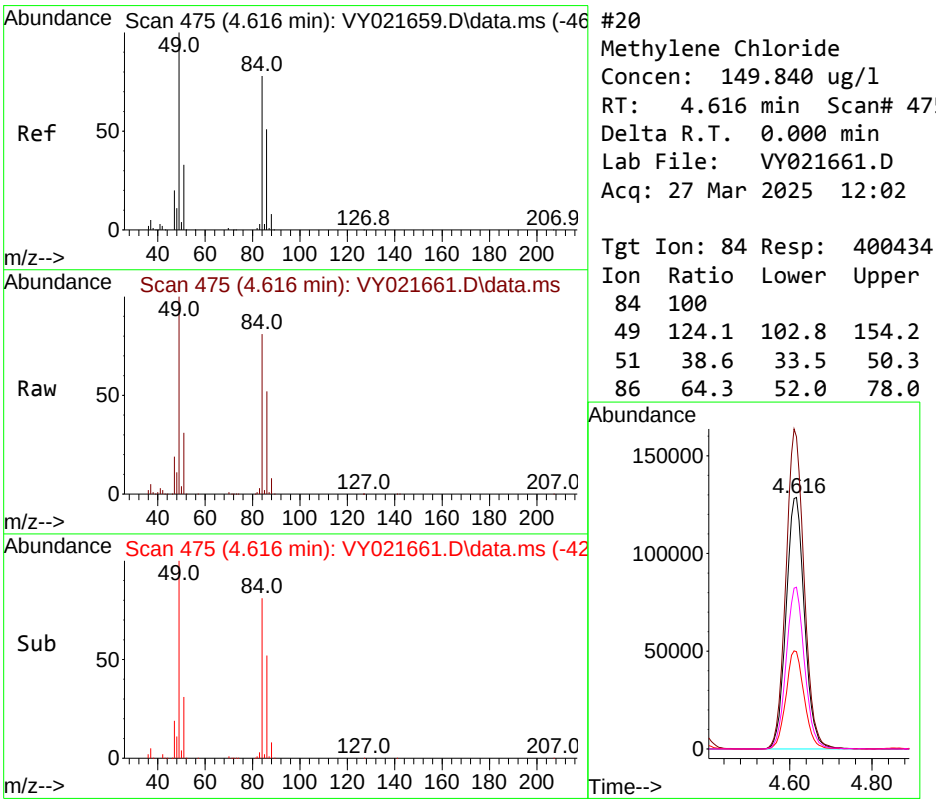
Tgt Ion: 73 Resp: 100615

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.1	27.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

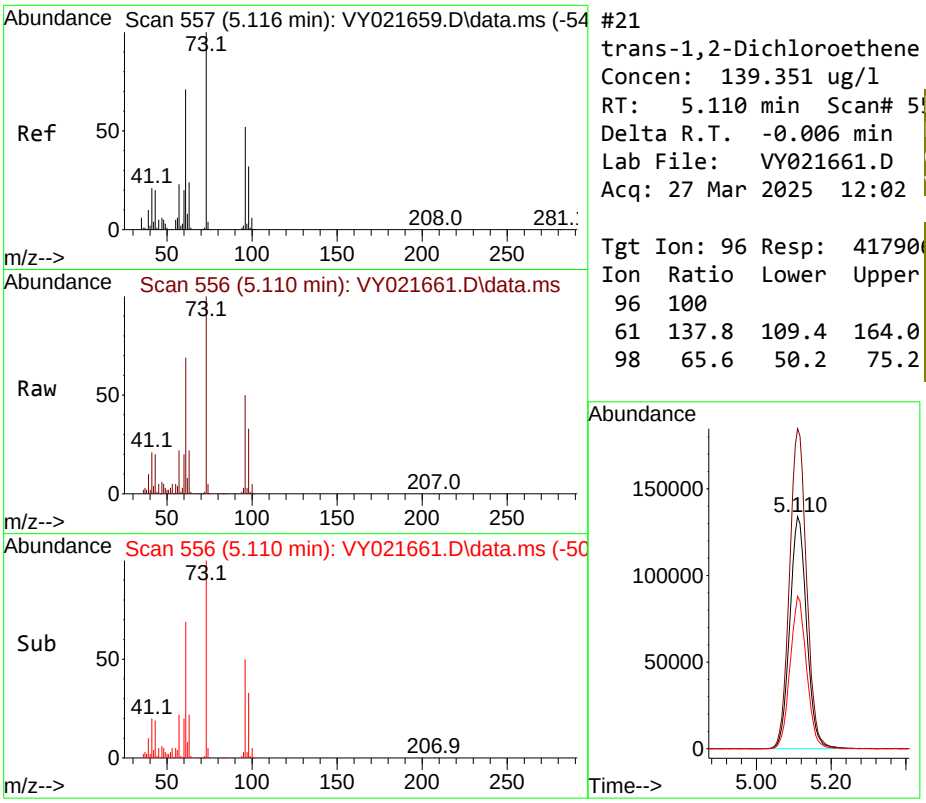
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#20
Methylene Chloride
Concen: 149.840 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 84 Resp: 400434

Ion	Ratio	Lower	Upper
84	100		
49	124.1	102.8	154.2
51	38.6	33.5	50.3
86	64.3	52.0	78.0



#21
trans-1,2-Dichloroethene
Concen: 139.351 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

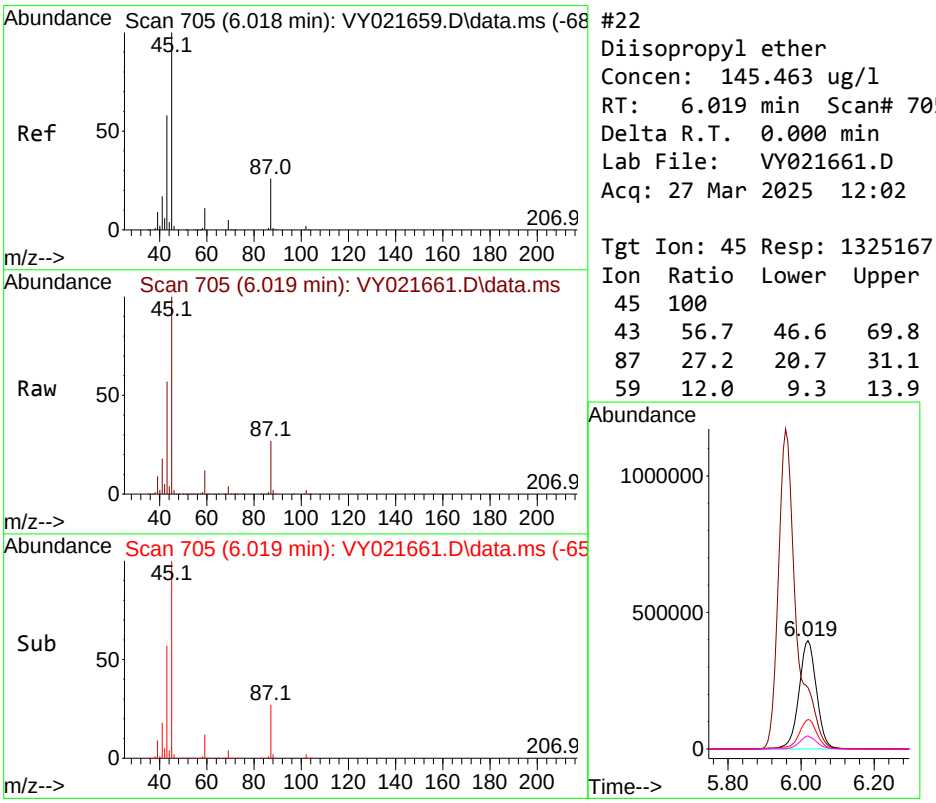
Tgt Ion: 96 Resp: 41790

Ion	Ratio	Lower	Upper
96	100		
61	137.8	109.4	164.0
98	65.6	50.2	75.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

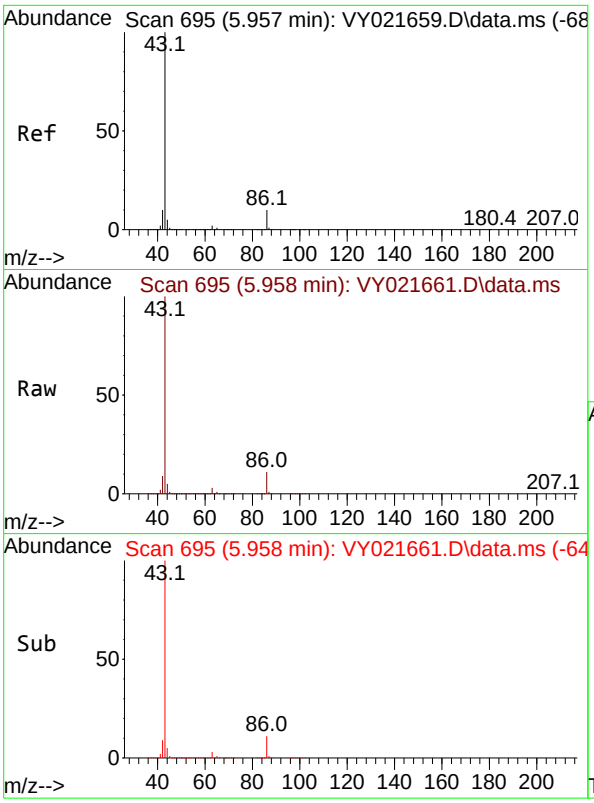
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#22
Diisopropyl ether
Concen: 145.463 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 45 Resp: 1325167

Ion	Ratio	Lower	Upper
45	100		
43	56.7	46.6	69.8
87	27.2	20.7	31.1
59	12.0	9.3	13.9



#23
Vinyl Acetate
Concen: 749.332 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

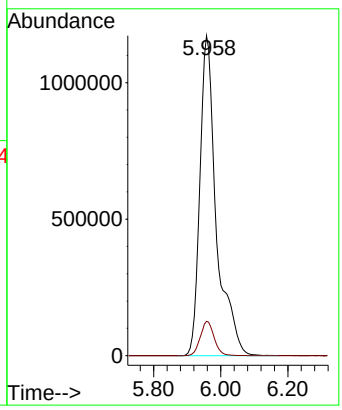
Tgt Ion: 43 Resp: 399349

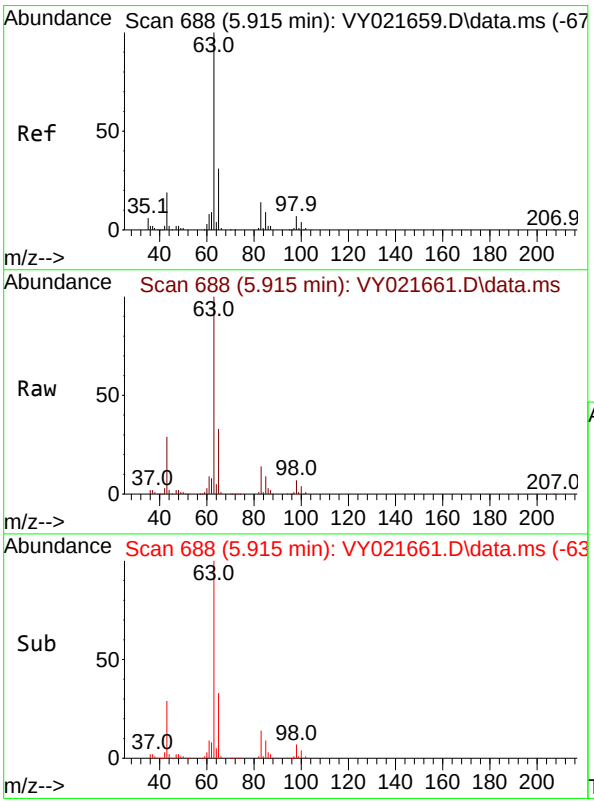
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

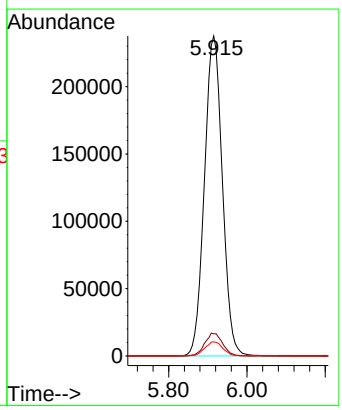


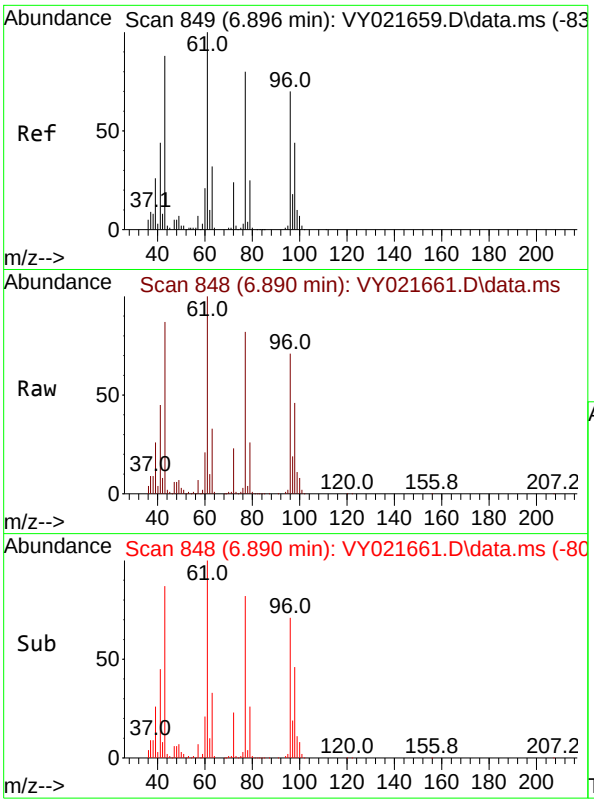


#24
1,1-Dichloroethane
Concen: 138.403 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 63 Resp: 753930

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	4.4	2.2	6.6





#25
2-Butanone
Concen: 733.215 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

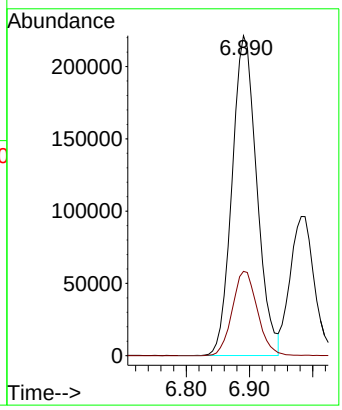
Tgt Ion: 43 Resp: 60302

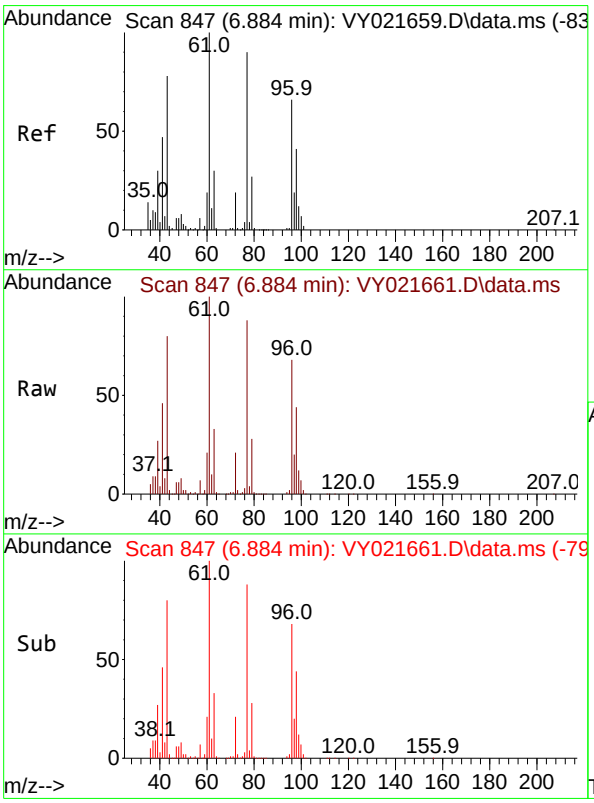
Ion	Ratio	Lower	Upper
43	100		
72	26.4	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

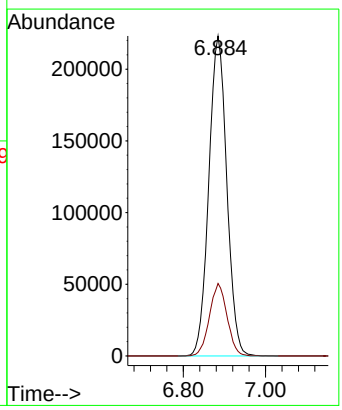


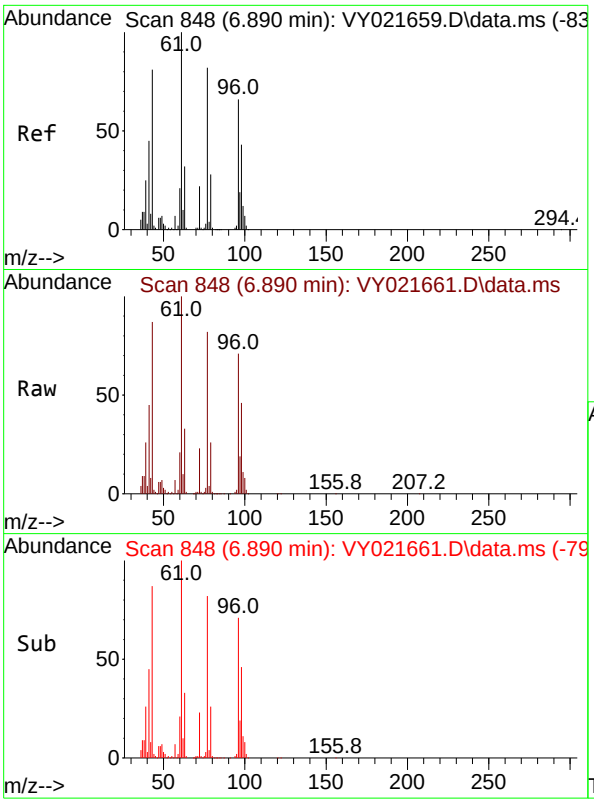


#26
2,2-Dichloropropane
Concen: 139.949 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 77 Resp: 678134

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.1

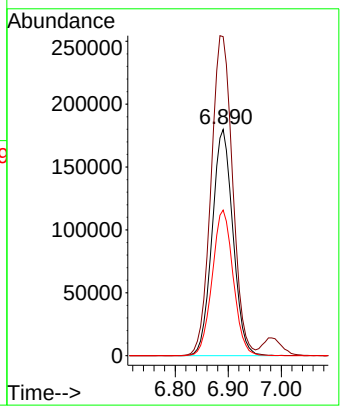




#27
cis-1,2-Dichloroethene
Concen: 145.395 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 96 Resp: 490349

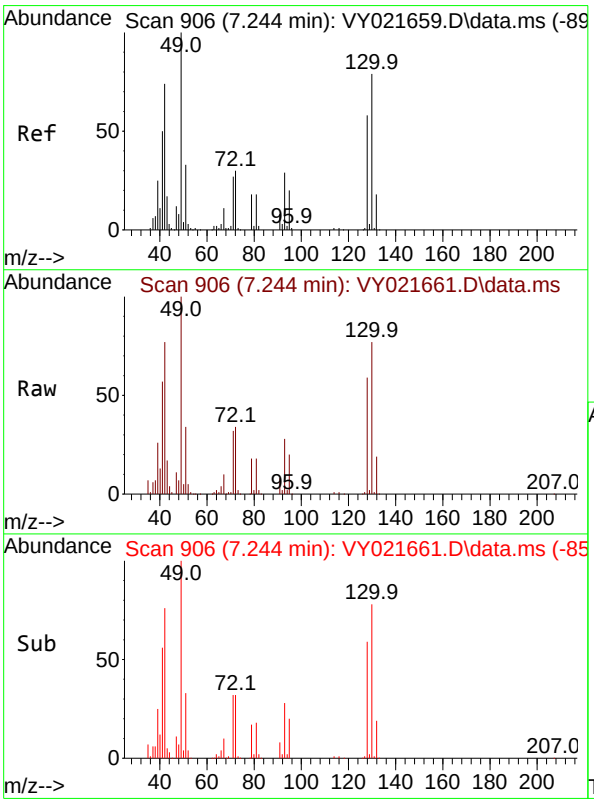
Ion	Ratio	Lower	Upper
96	100		
61	146.8	0.0	296.4
98	64.9	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

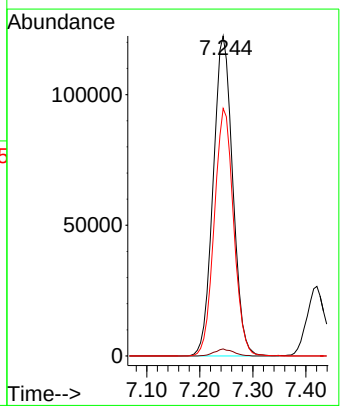
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

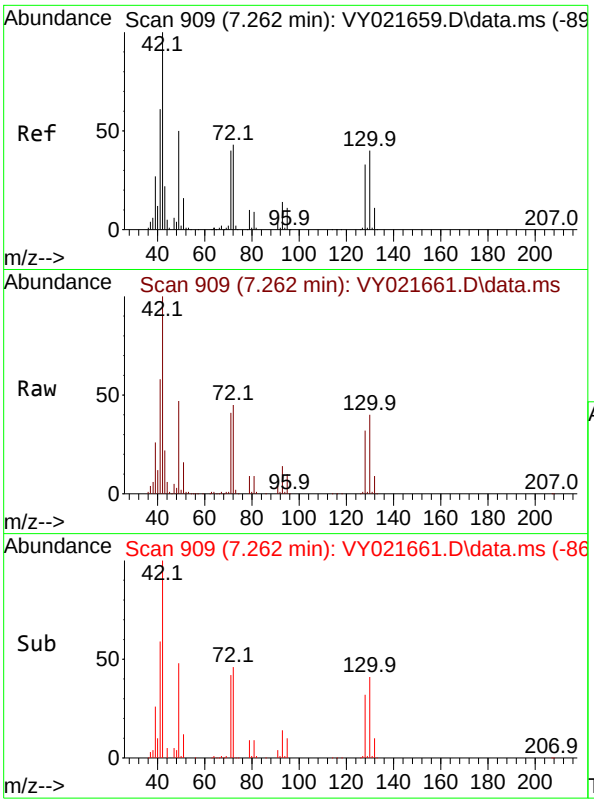


#28
Bromochloromethane
Concen: 136.480 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 49 Resp: 313542

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	76.4	60.1	90.1

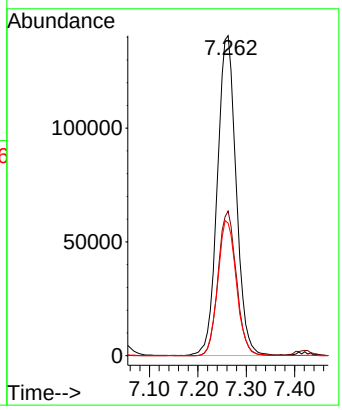




#29
Tetrahydrofuran
Concen: 716.799 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 42 Resp: 37941

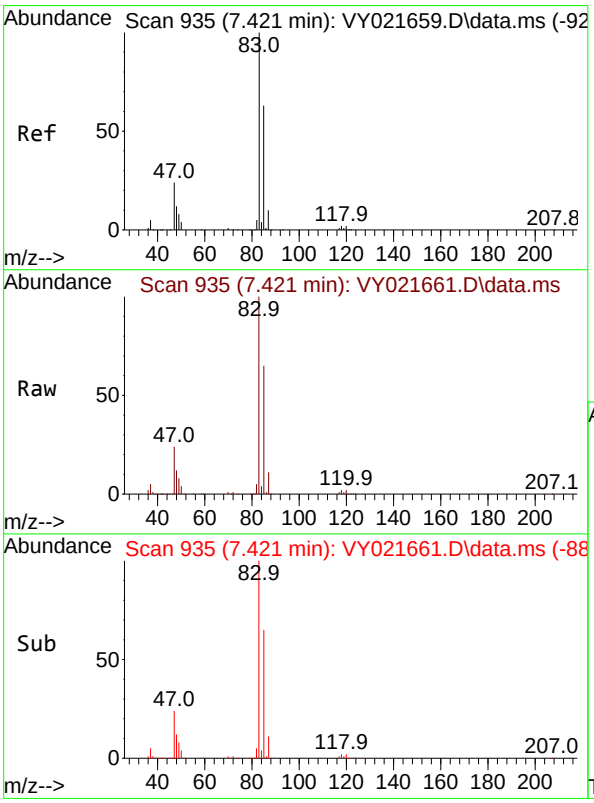
Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.6	52.0
71	41.9	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

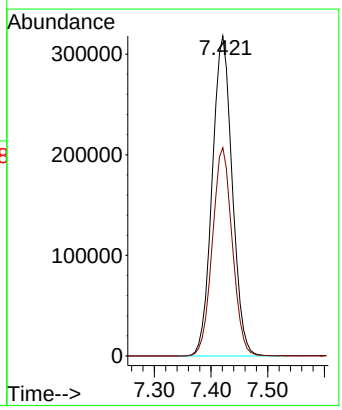
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

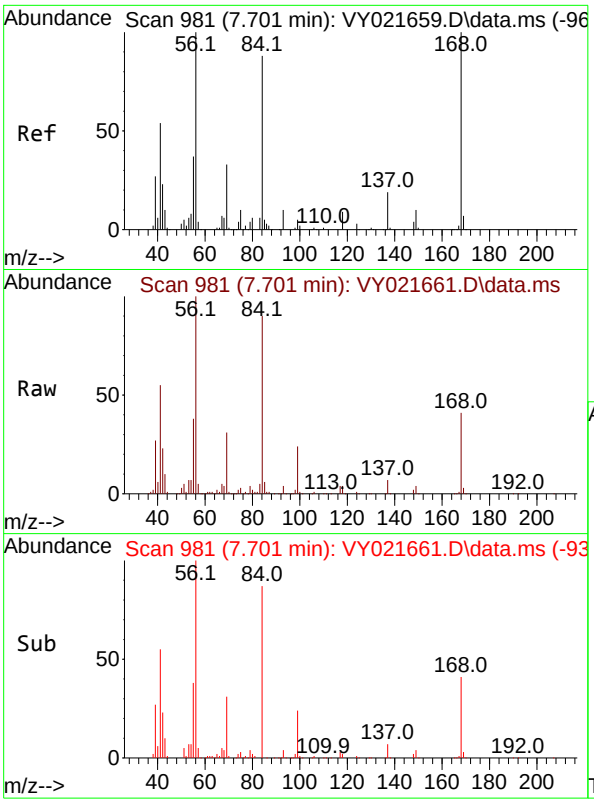


#30
Chloroform
Concen: 137.548 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 83 Resp: 779319

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.6	75.8

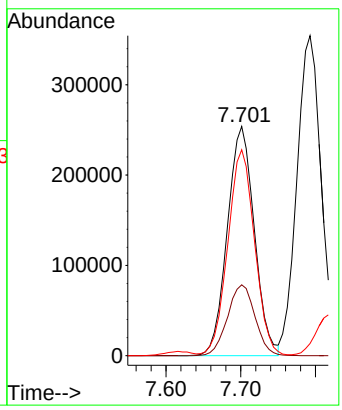




#31
Cyclohexane
Concen: 128.388 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 56 Resp: 63753

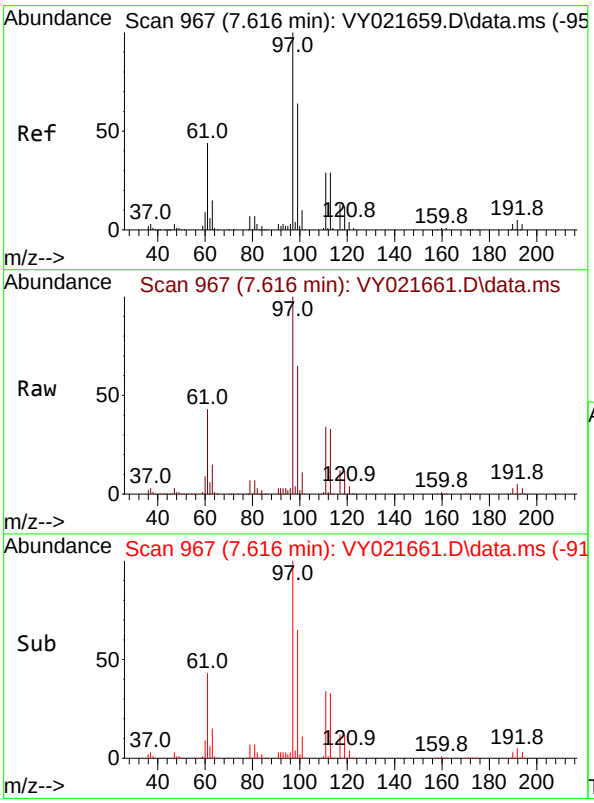
Ion	Ratio	Lower	Upper
56	100		
69	31.0	26.6	40.0
84	88.0	69.0	103.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

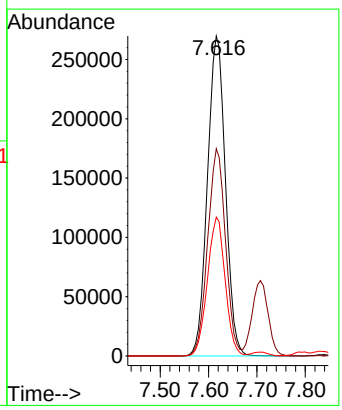
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

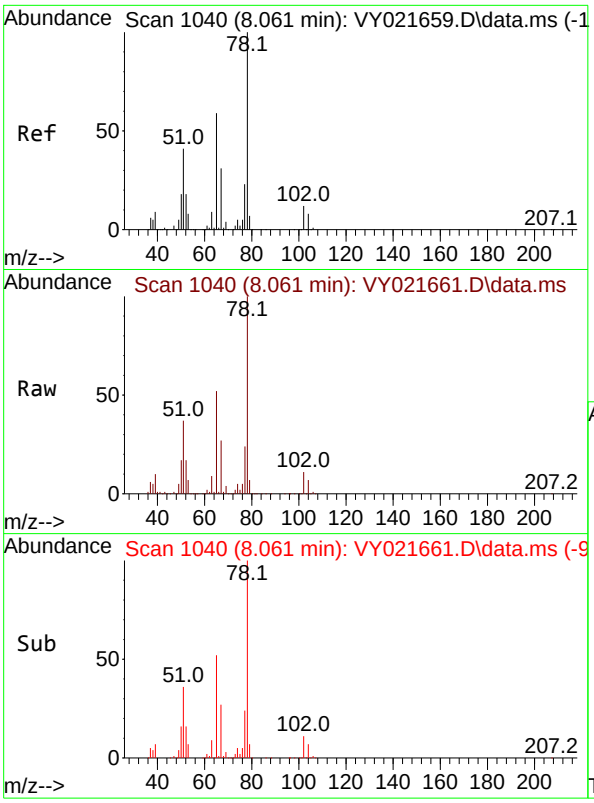


#32
1,1,1-Trichloroethane
Concen: 135.918 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 97 Resp: 696016

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.7	76.1
61	43.0	35.2	52.8

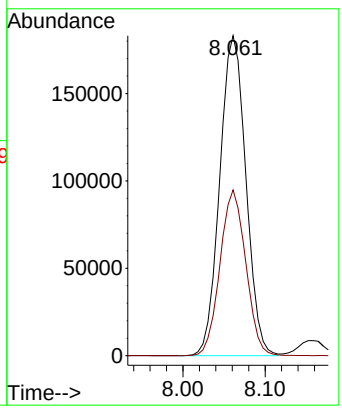




#33
1,2-Dichloroethane-d4
Concen: 143.931 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 65 Resp: 40495

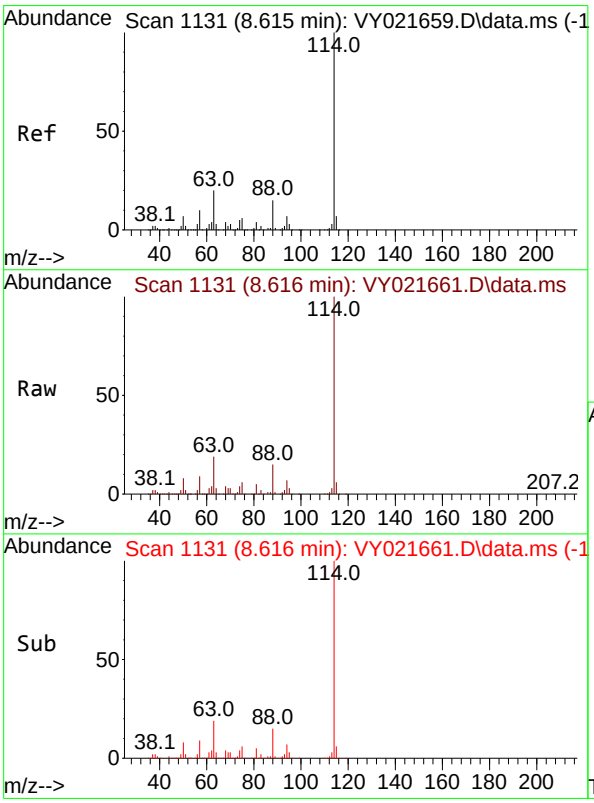
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

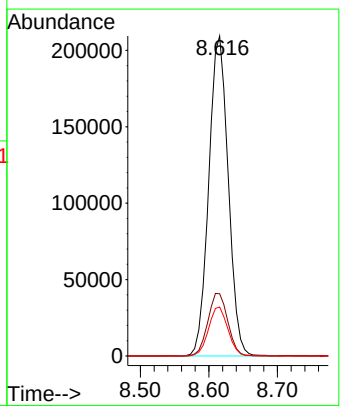
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

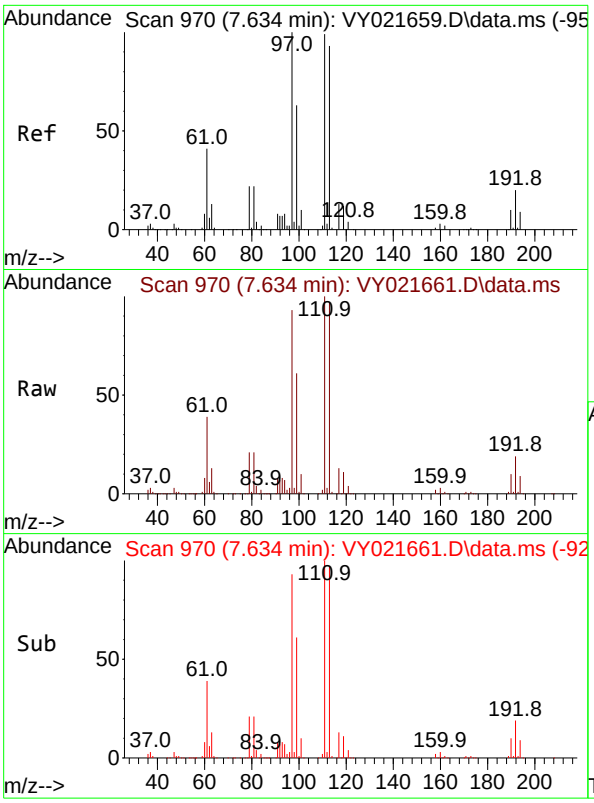


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:114 Resp: 412304

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.2
88	15.3	0.0	29.8

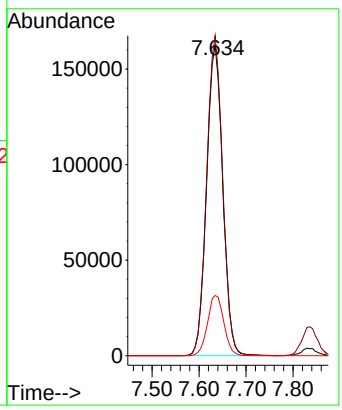




#35
Dibromofluoromethane
Concen: 144.862 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:113 Resp: 38743

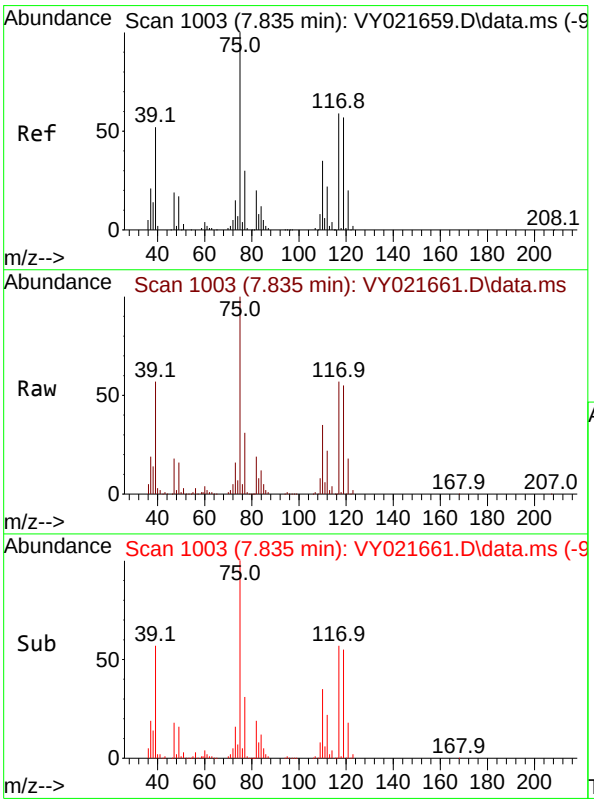
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	19.6	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

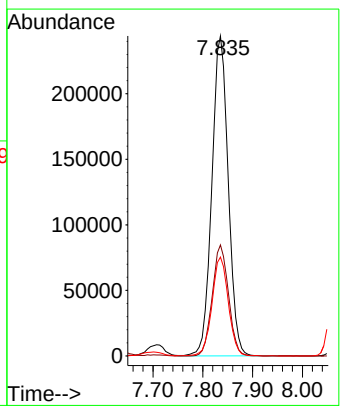
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

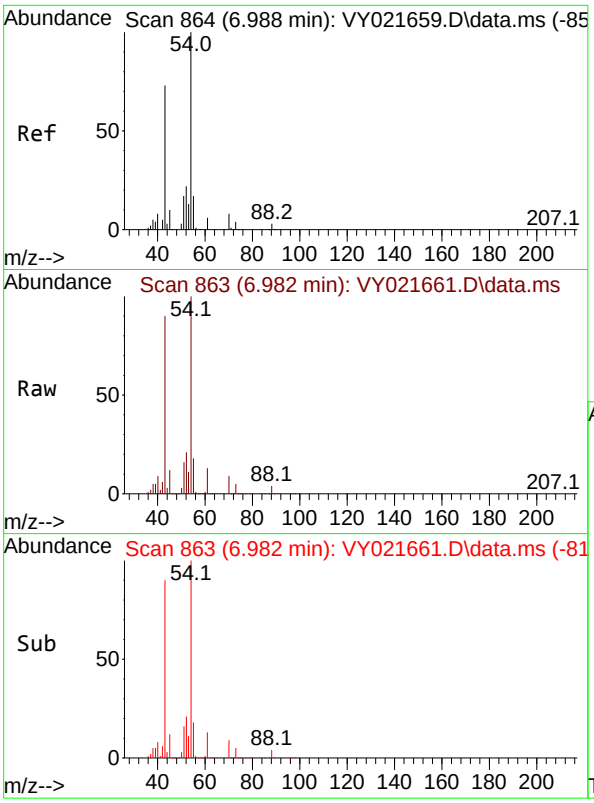


#36
1,1-Dichloropropene
Concen: 136.722 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 75 Resp: 556974

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.0	50.9
77	30.9	24.8	37.2





#37
Ethyl Acetate
Concen: 134.812 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

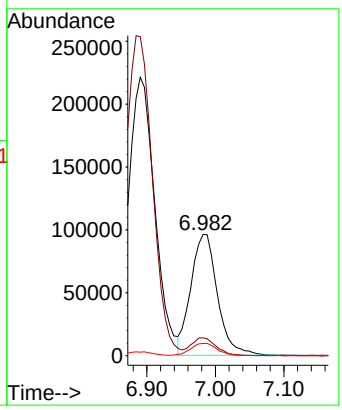
Tgt Ion: 43 Resp: 25918

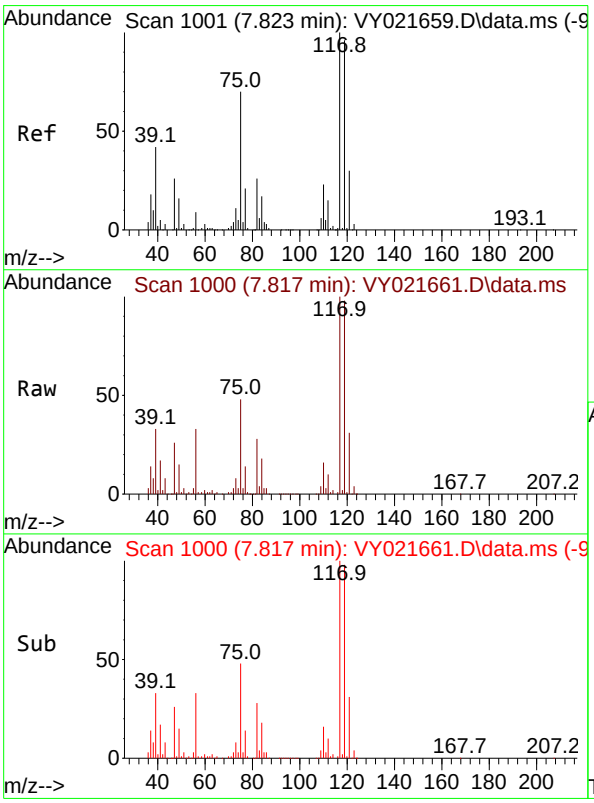
Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.0	16.6
70	10.3	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

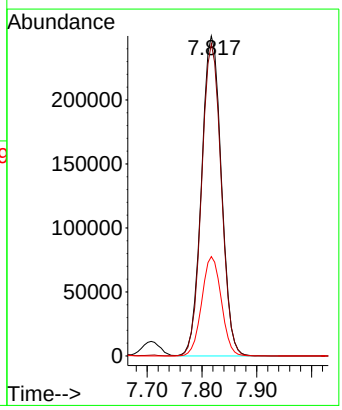


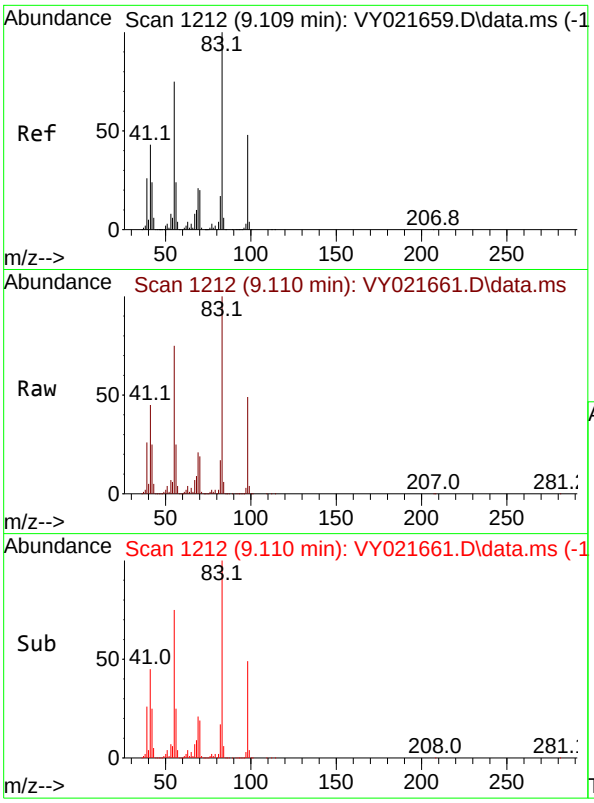


#38
Carbon Tetrachloride
Concen: 134.452 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:117 Resp: 627331

Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.2	114.4
121	31.0	24.2	36.4

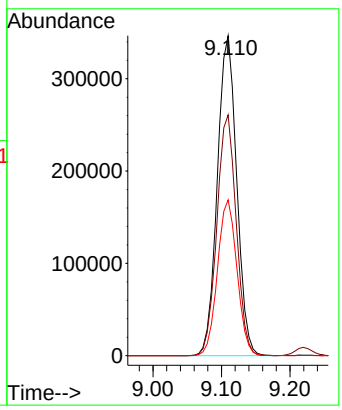




#39
Methylcyclohexane
Concen: 139.666 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 83 Resp: 67969

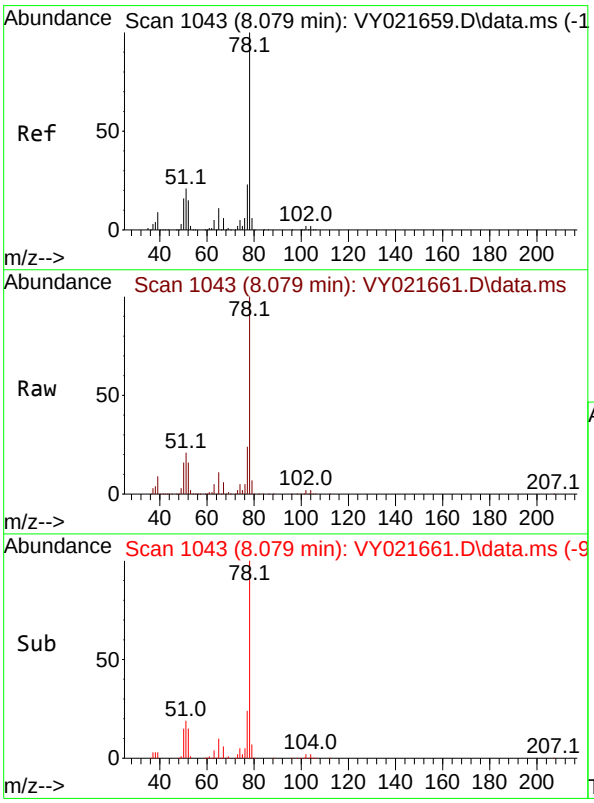
Ion	Ratio	Lower	Upper
83	100		
55	75.3	59.7	89.5
98	48.7	38.3	57.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

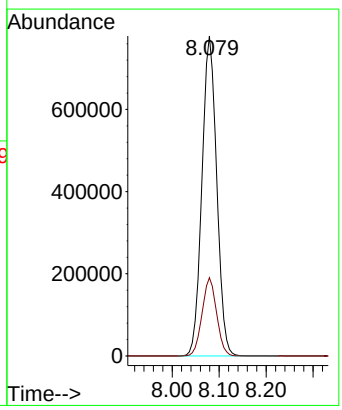
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

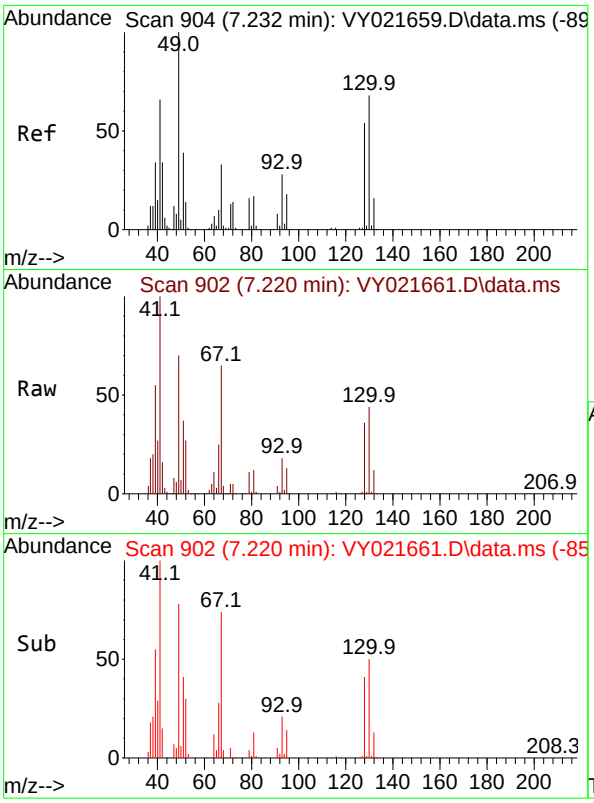


#40
Benzene
Concen: 139.014 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 78 Resp: 1695962

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2

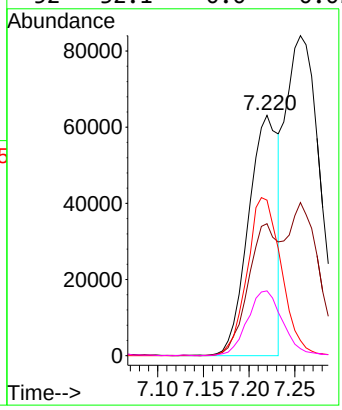




#41
Methacrylonitrile
Concen: 140.447 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 41 Resp: 14338

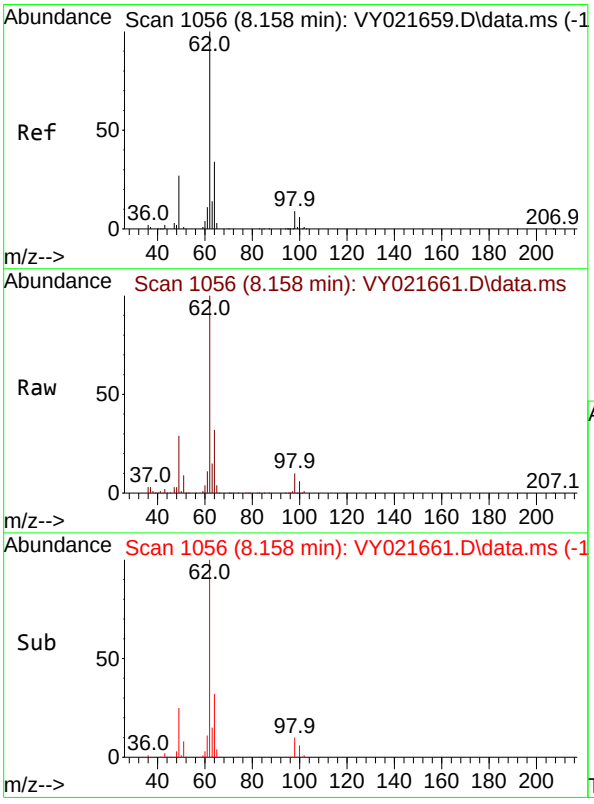
Ion	Ratio	Lower	Upper
41	100		
39	54.1	0.0	0.0#
67	75.9	0.0	0.0#
52	32.1	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

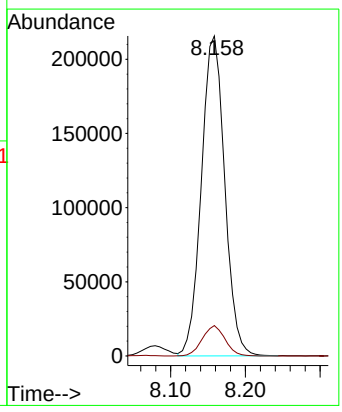
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

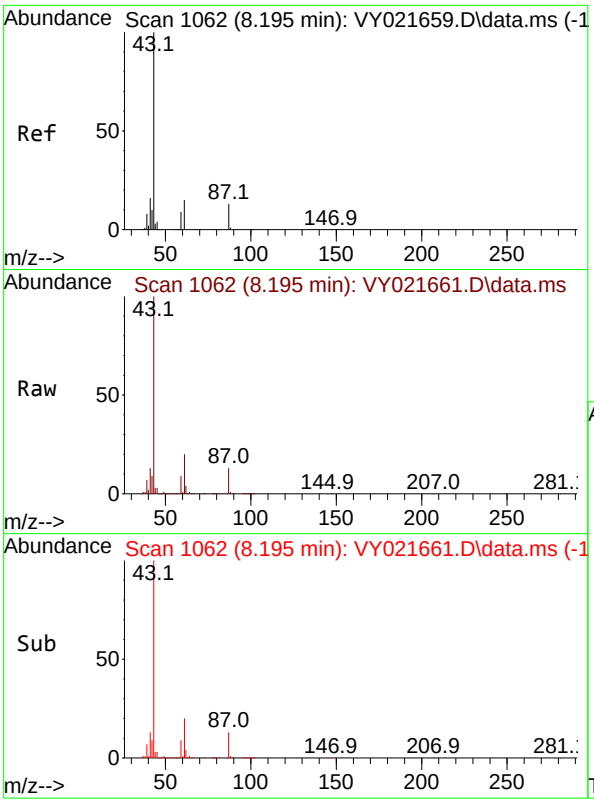


#42
1,2-Dichloroethane
Concen: 136.165 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 62 Resp: 468317

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4

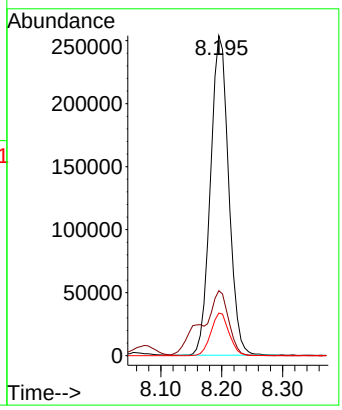




#43
Isopropyl Acetate
Concen: 144.731 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 43 Resp: 52731

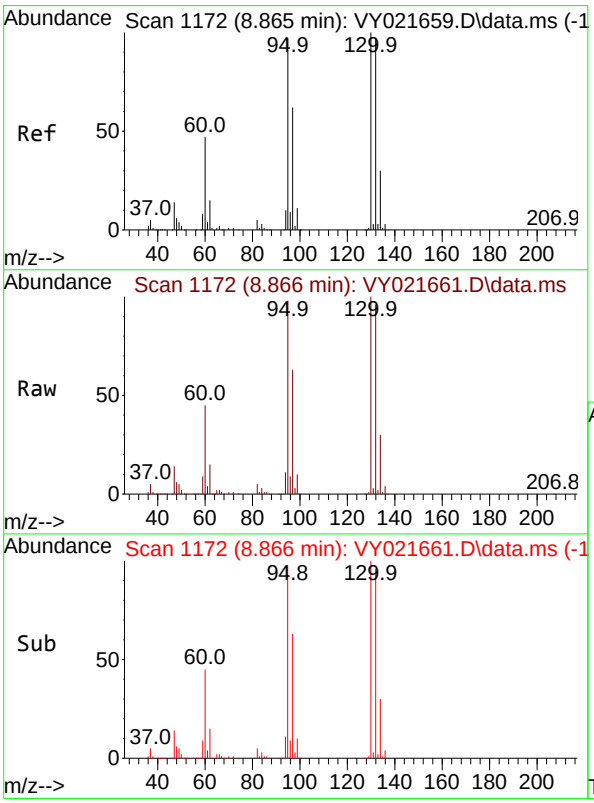
Ion	Ratio	Lower	Upper
43	100		
61	29.7	15.9	23.9#
87	13.3	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

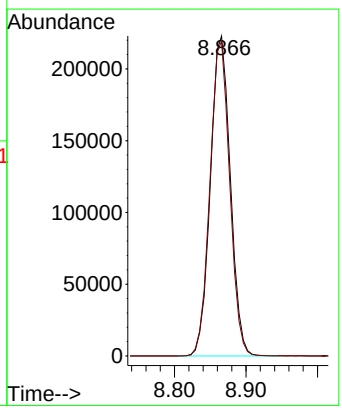
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

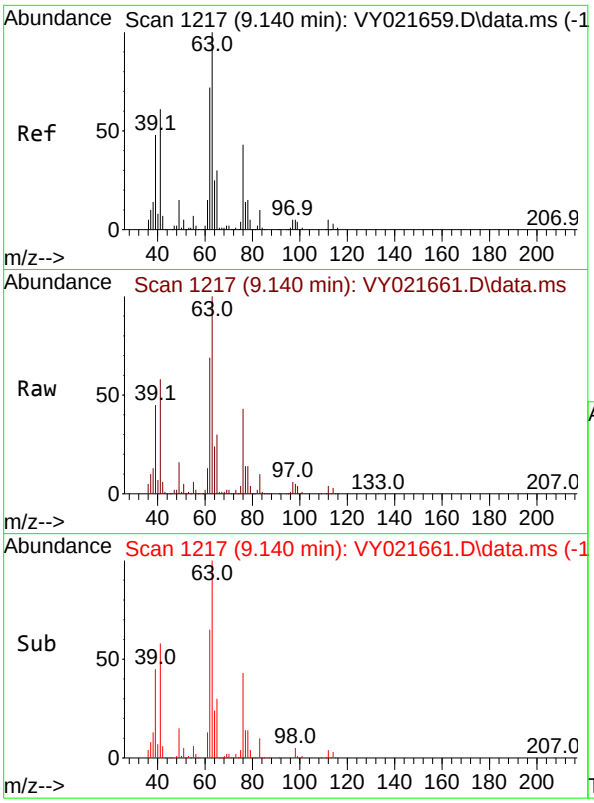


#44
Trichloroethene
Concen: 138.536 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:130 Resp: 430629

Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	194.8

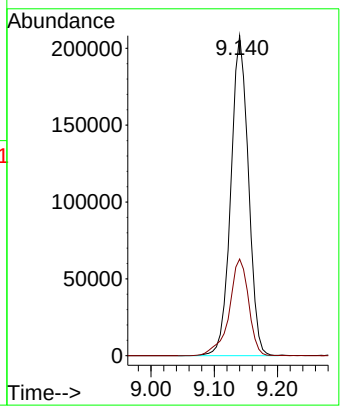




#45
1,2-Dichloropropane
Concen: 139.191 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 63 Resp: 40195

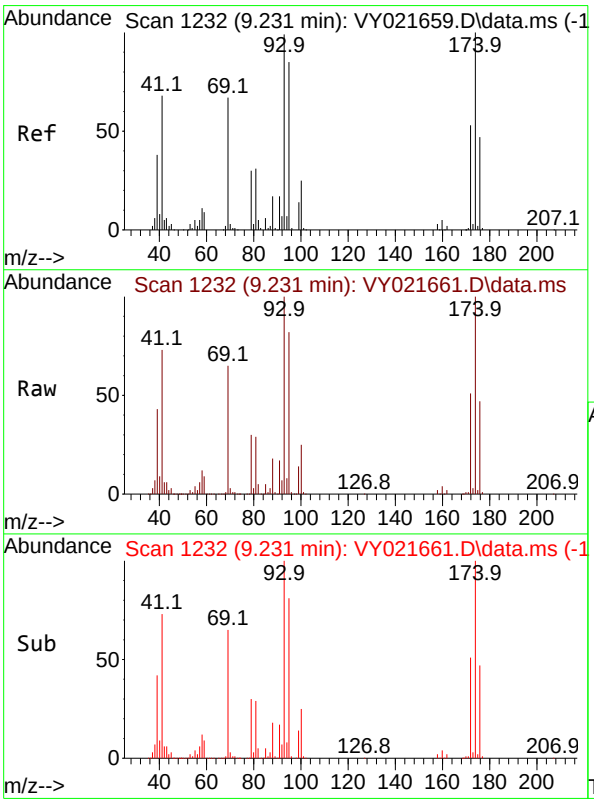
Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

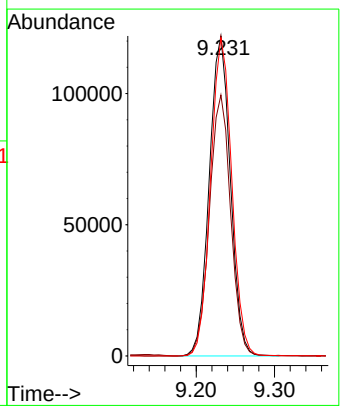
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

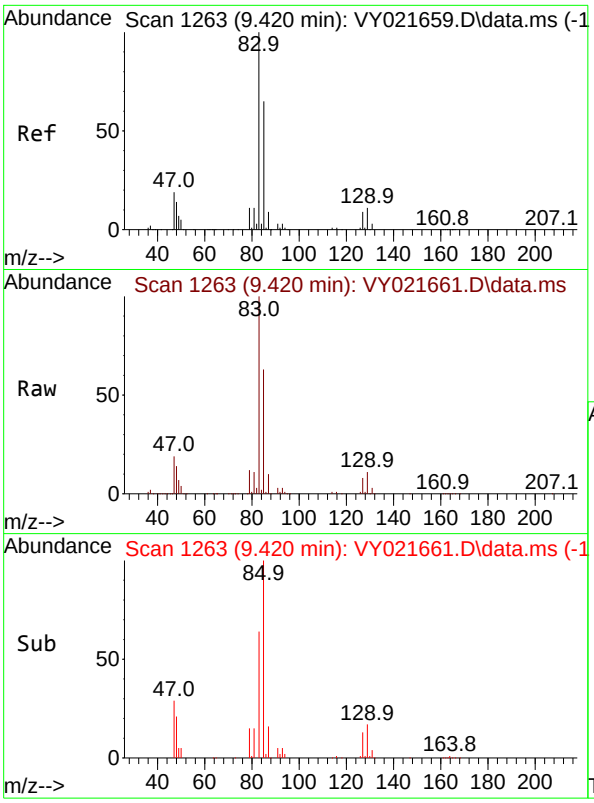


#46
Dibromomethane
Concen: 137.167 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 93 Resp: 228287

Ion	Ratio	Lower	Upper
93	100		
95	82.1	68.1	102.1
174	99.7	80.9	121.3

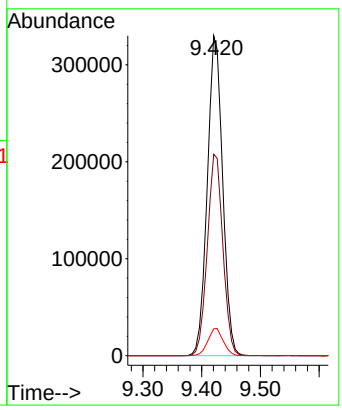




#47
Bromodichloromethane
Concen: 138.764 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 83 Resp: 59842

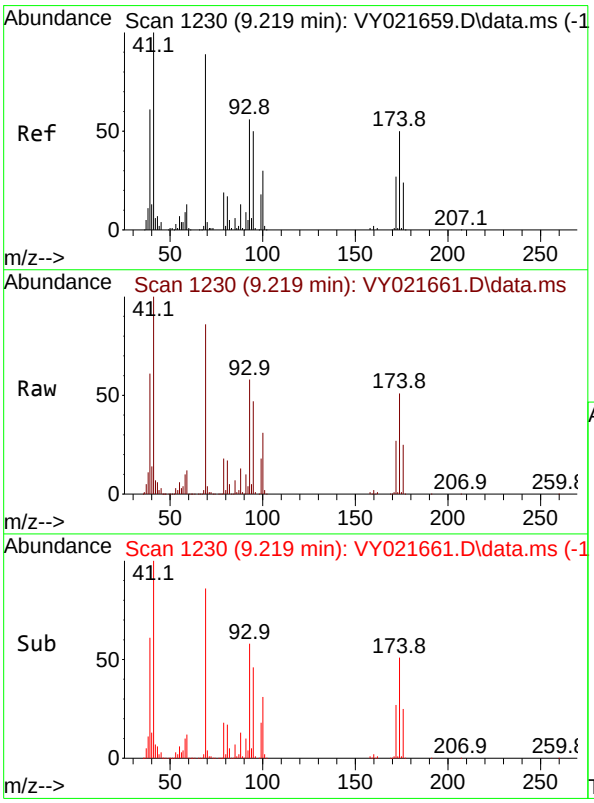
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.8	77.6
127	8.4	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

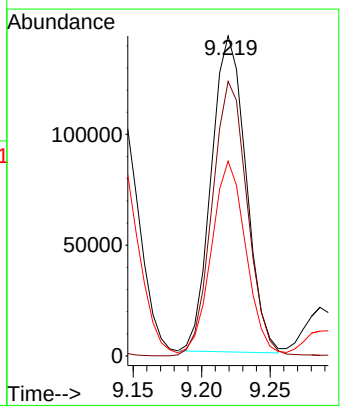
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

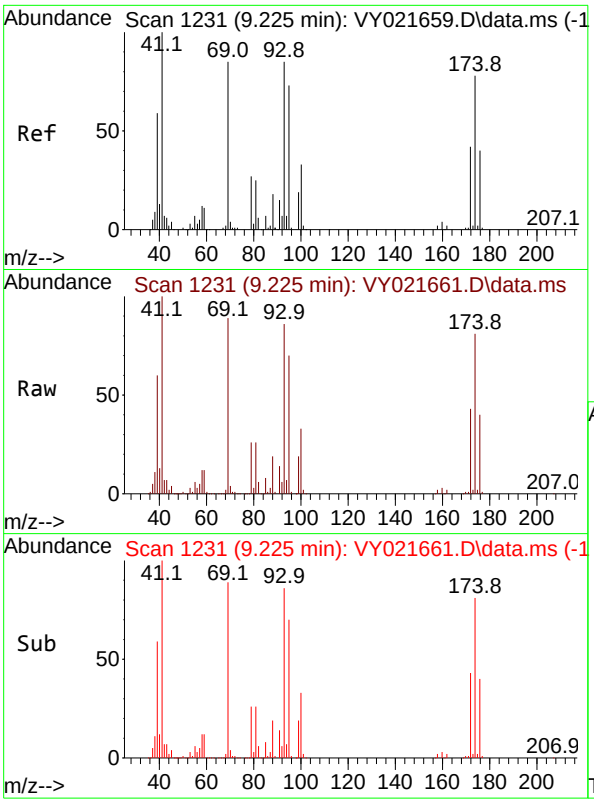


#48
Methyl methacrylate
Concen: 150.306 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 41 Resp: 251339

Ion	Ratio	Lower	Upper
41	100		
69	88.1	69.8	104.8
39	59.6	47.2	70.8

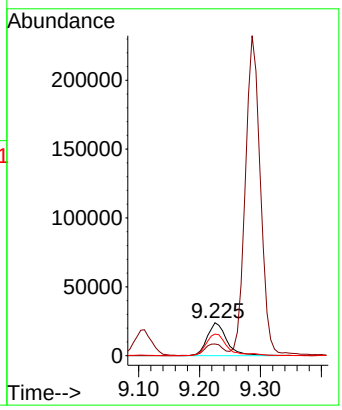




#49
1,4-Dioxane
Concen: 2991.658 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 88 Resp: 5333

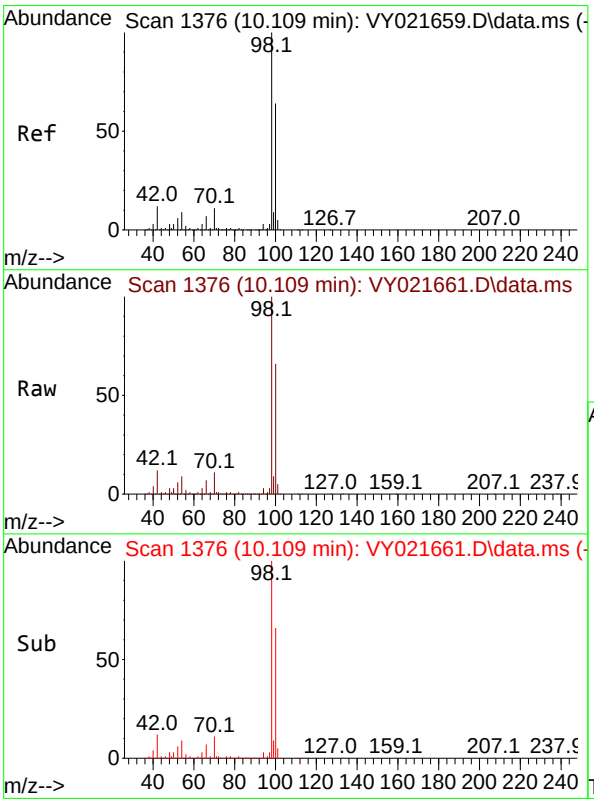
Ion	Ratio	Lower	Upper
88	100		
43	33.6	28.8	43.2
58	67.8	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

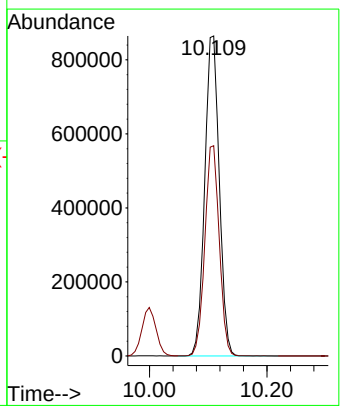
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

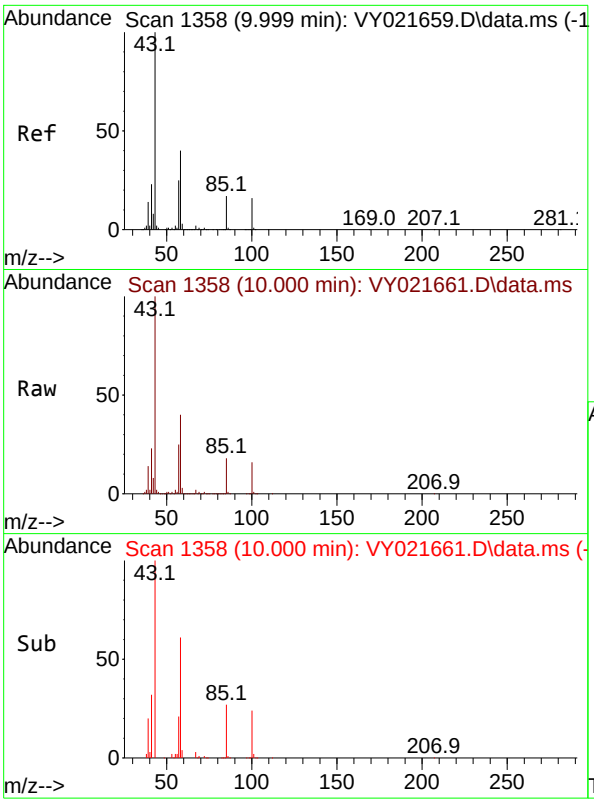


#50
Toluene-d8
Concen: 146.020 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 98 Resp: 1485725

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.1	78.1

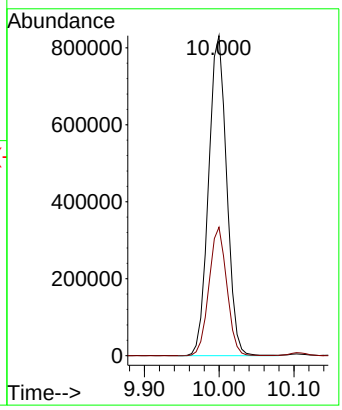




#51
4-Methyl-2-Pentanone
Concen: 737.160 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 43 Resp: 139767

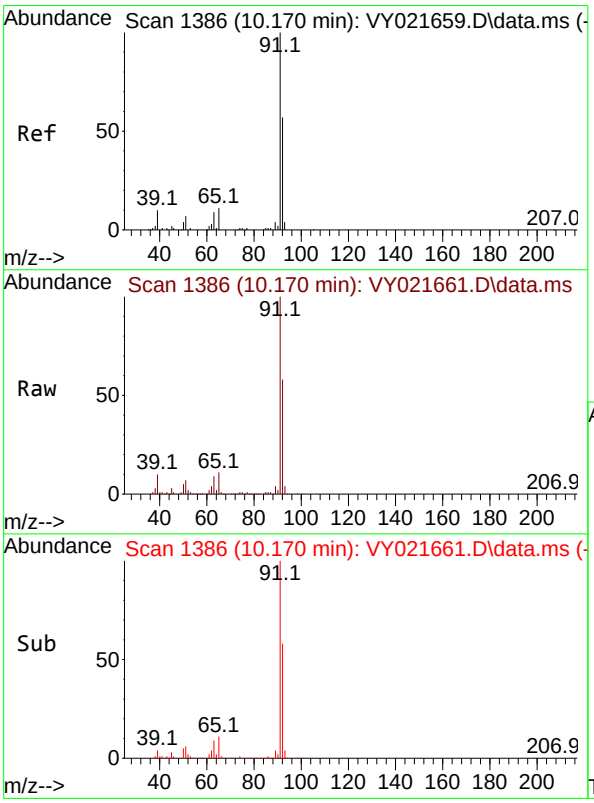
Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

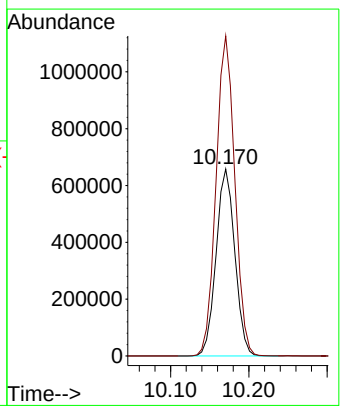
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

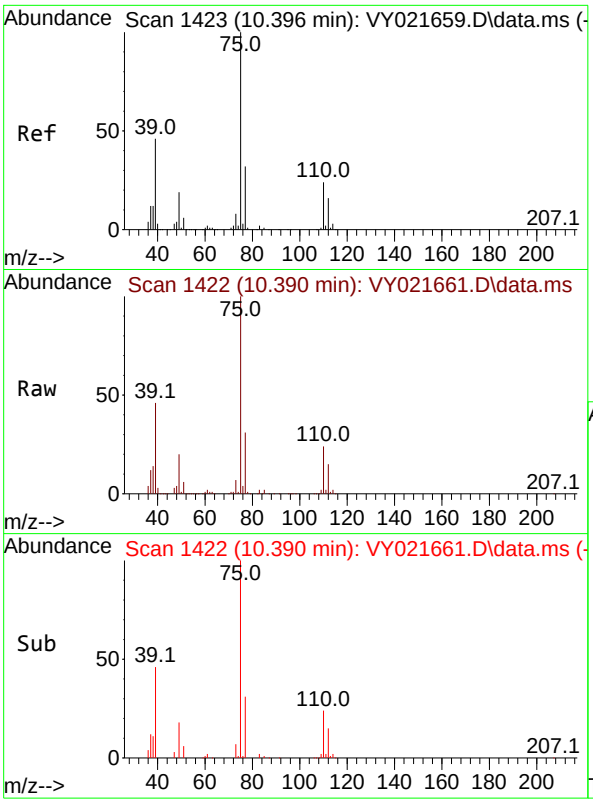


#52
Toluene
Concen: 143.758 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 92 Resp: 1094229

Ion	Ratio	Lower	Upper
92	100		
91	171.6	138.6	207.8

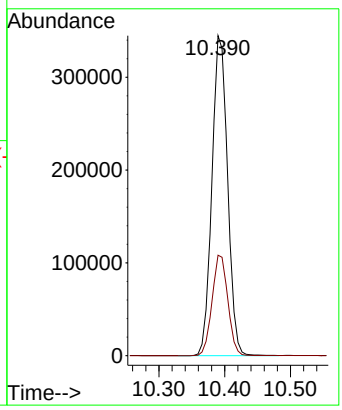




#53
t-1,3-Dichloropropene
Concen: 148.908 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 75 Resp: 57038

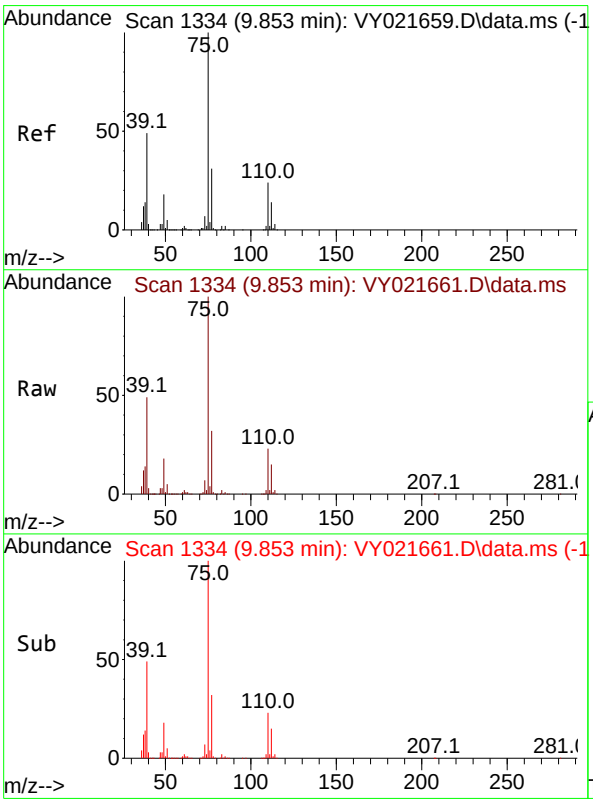
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

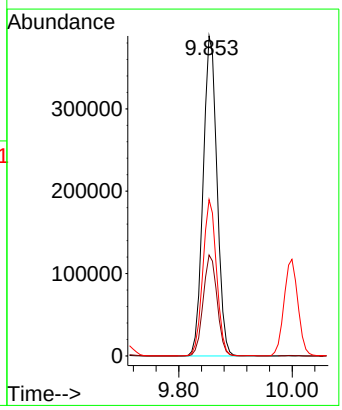
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

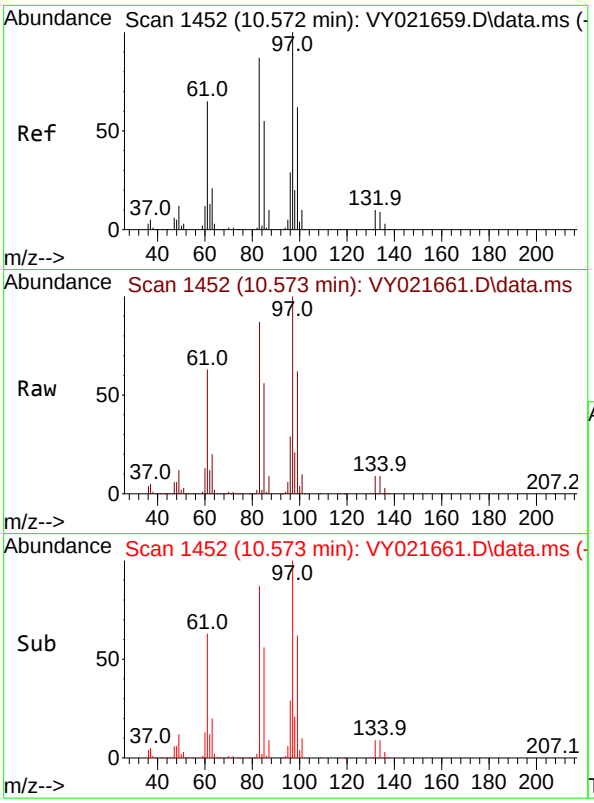


#54
cis-1,3-Dichloropropene
Concen: 146.159 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 75 Resp: 660476

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3
39	48.8	39.2	58.8

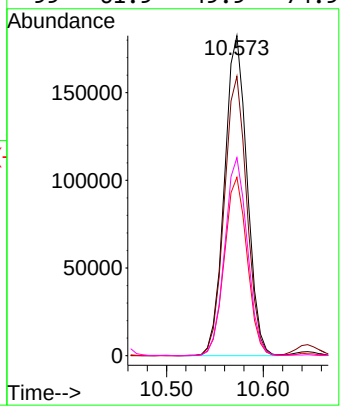




#55
1,1,2-Trichloroethane
Concen: 138.396 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 97 Resp: 29641

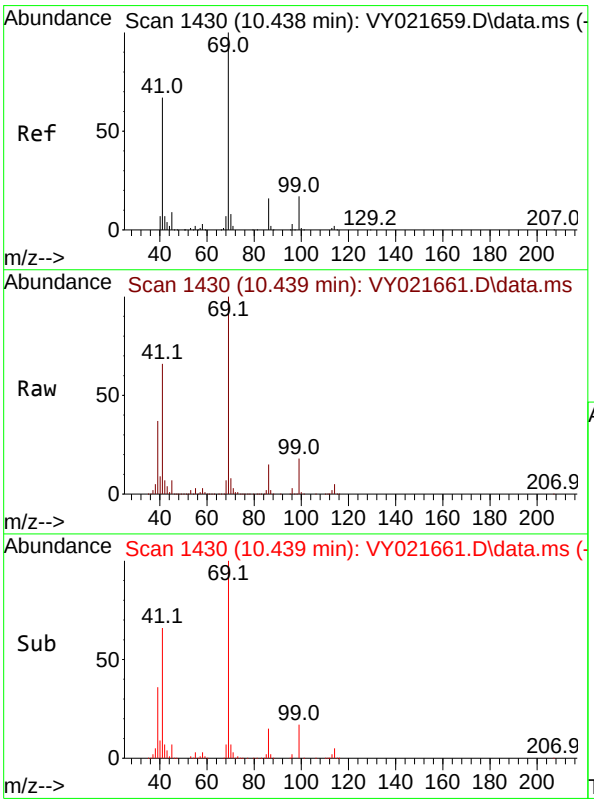
Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.5	104.3
85	55.8	43.9	65.9
99	61.9	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

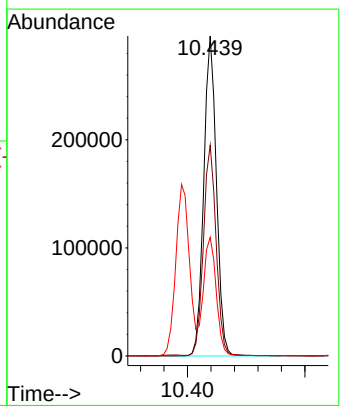
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

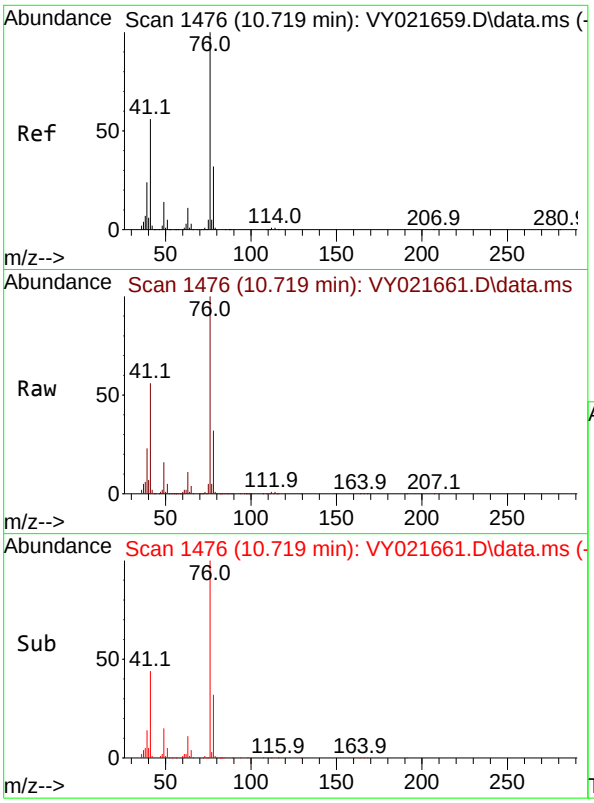


#56
Ethyl methacrylate
Concen: 162.176 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 69 Resp: 443517

Ion	Ratio	Lower	Upper
69	100		
41	66.0	53.8	80.6
39	37.9	29.6	44.4

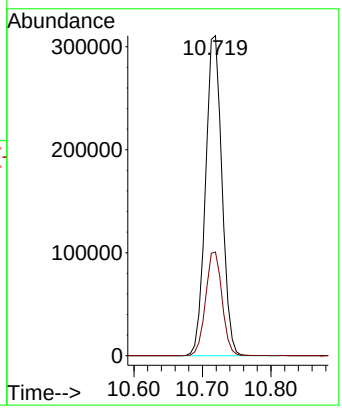




#57
1,3-Dichloropropane
Concen: 139.961 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 76 Resp: 51770

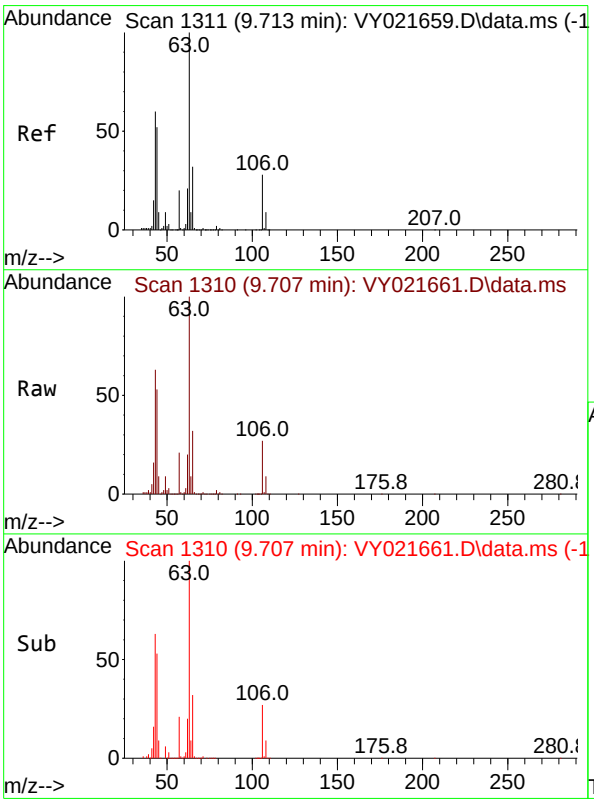
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

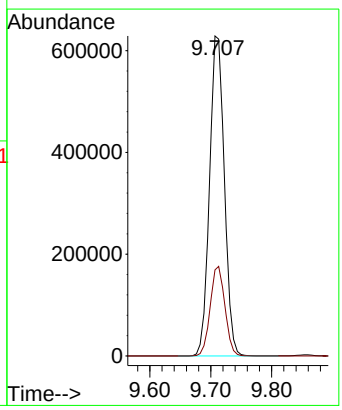
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

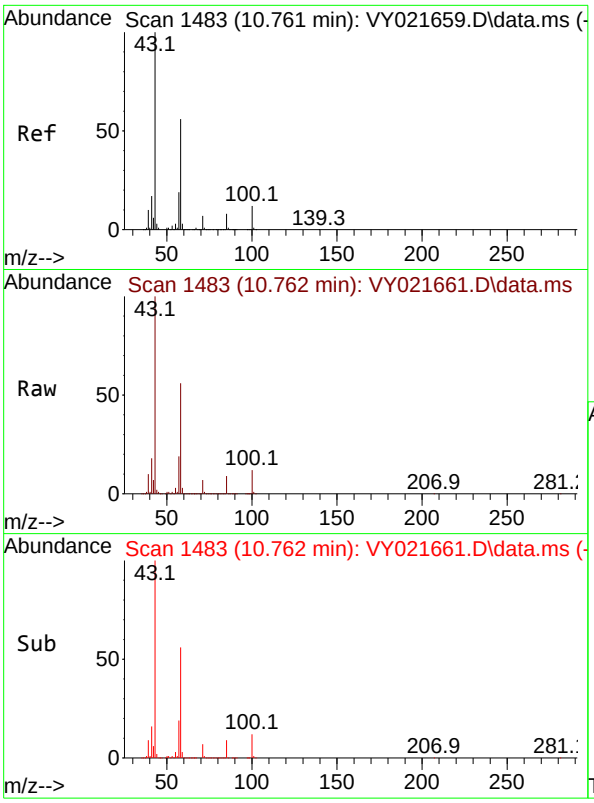


#58
2-Chloroethyl Vinyl ether
Concen: 795.867 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 63 Resp: 1061779

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.4	33.6

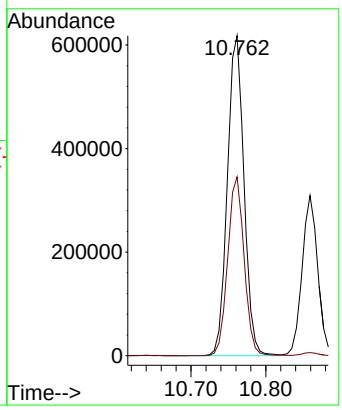




#59
2-Hexanone
Concen: 756.341 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 43 Resp: 95505

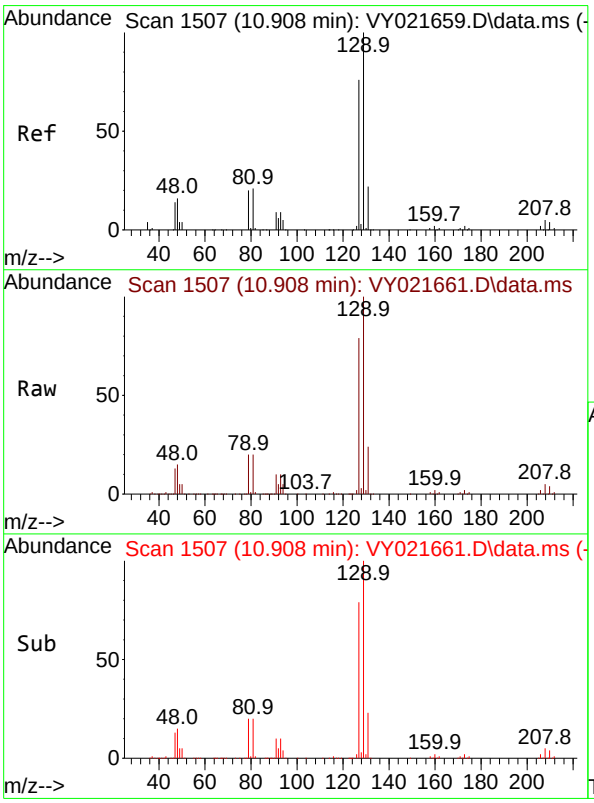
Ion	Ratio	Lower	Upper
43	100		
58	55.4	27.2	81.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

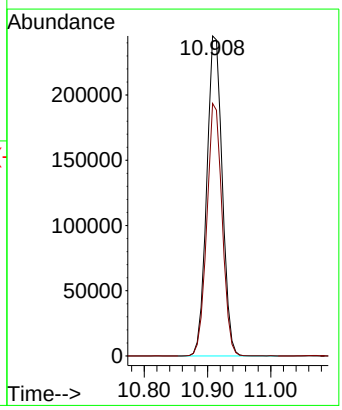
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

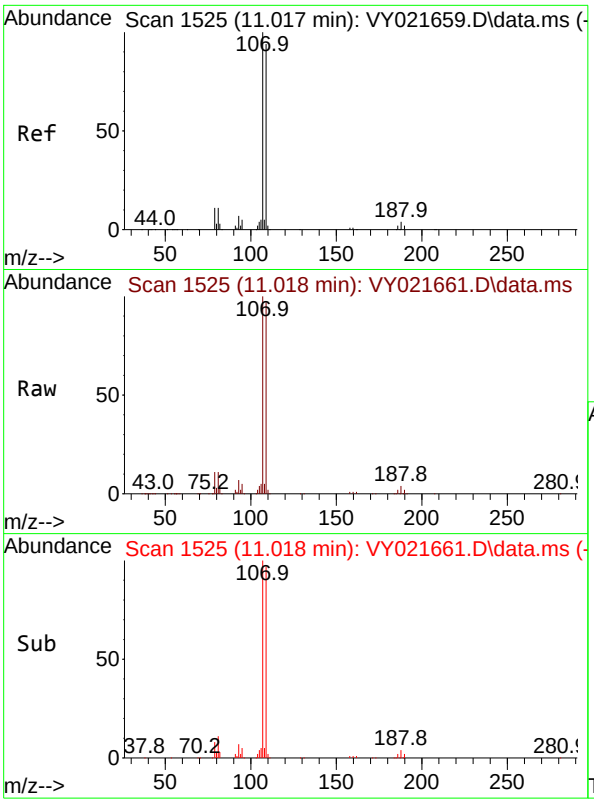


#60
Dibromochloromethane
Concen: 142.682 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:129 Resp: 417230

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7

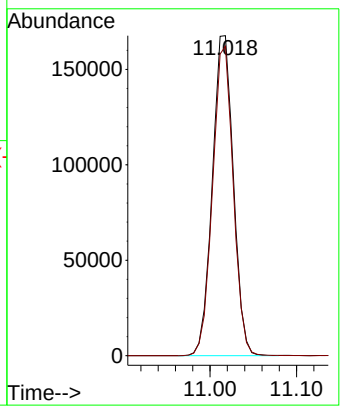




#61
1,2-Dibromoethane
Concen: 141.082 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:107 Resp: 28345

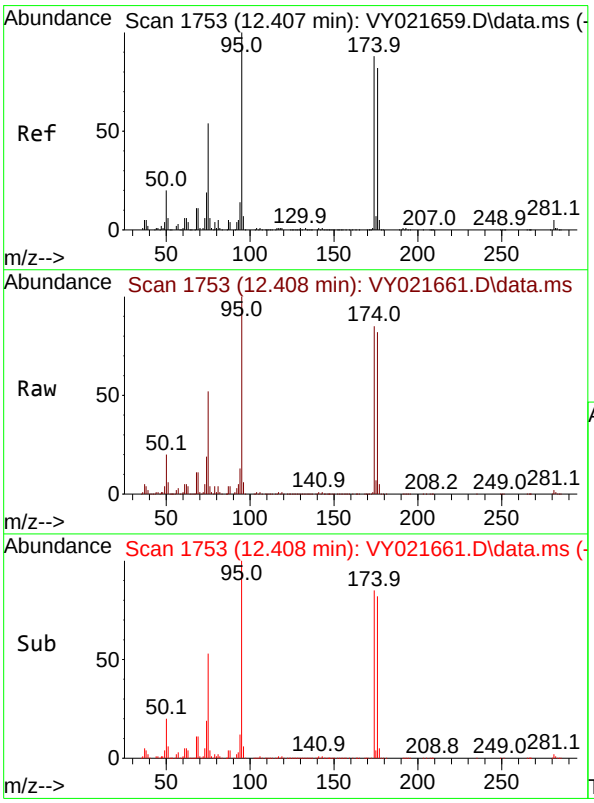
Ion	Ratio	Lower	Upper
107	100		
109	94.7	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

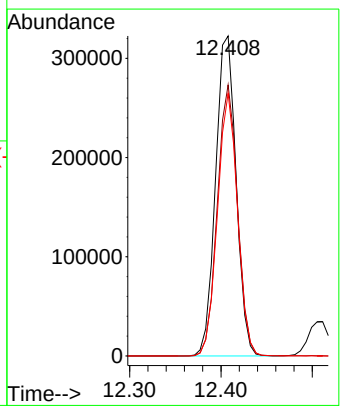
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

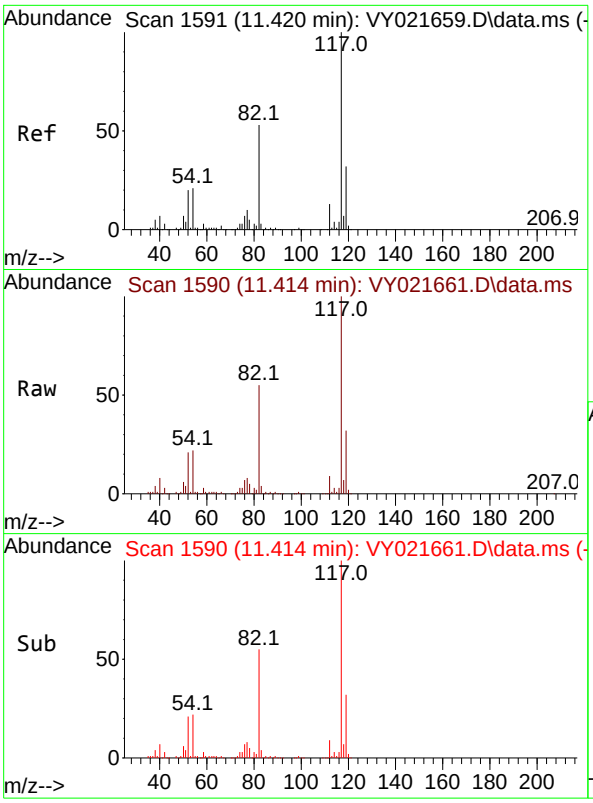


#62
4-Bromofluorobenzene
Concen: 146.271 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 95 Resp: 503406

Ion	Ratio	Lower	Upper
95	100		
174	83.4	0.0	170.8
176	80.1	0.0	162.0

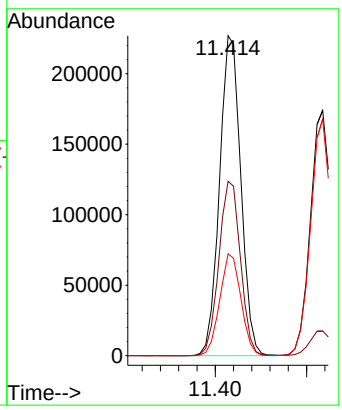




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:117 Resp: 36728

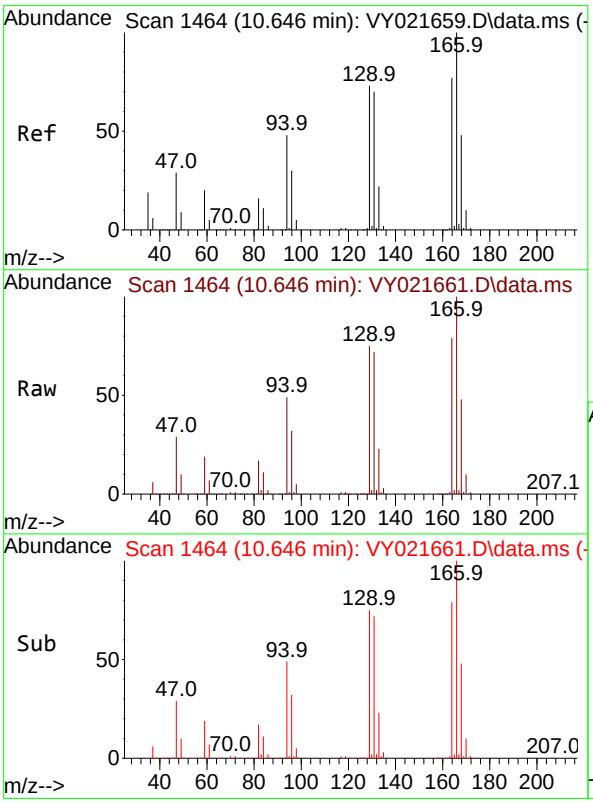
Ion	Ratio	Lower	Upper
117	100		
82	54.5	42.8	64.2
119	31.9	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

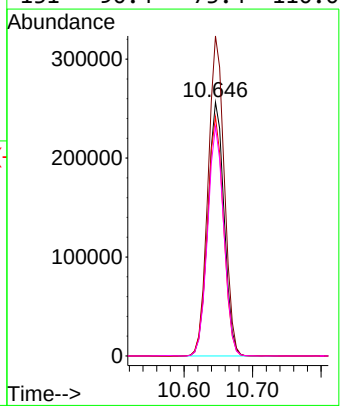
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

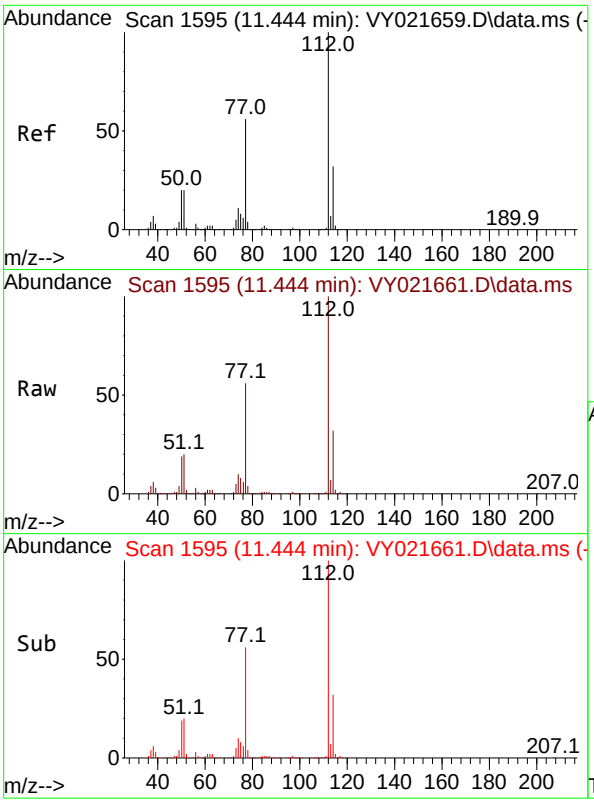


#64
Tetrachloroethene
Concen: 125.966 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:164 Resp: 421368

Ion	Ratio	Lower	Upper
164	100		
166	126.1	104.6	156.8
129	94.3	76.6	114.8
131	90.4	73.4	110.0

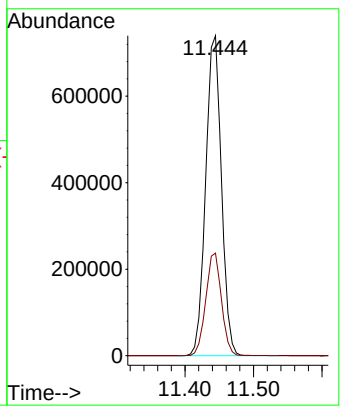




#65
Chlorobenzene
Concen: 140.483 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:112 Resp: 118277

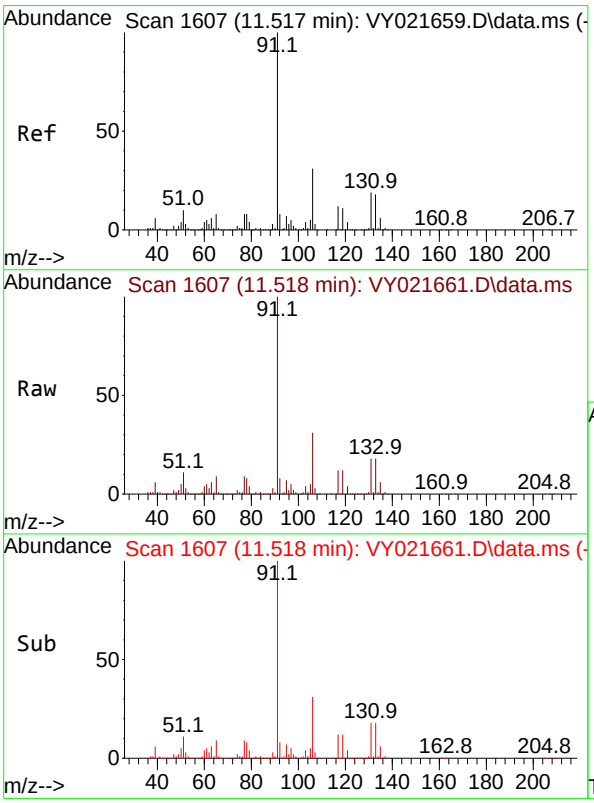
Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

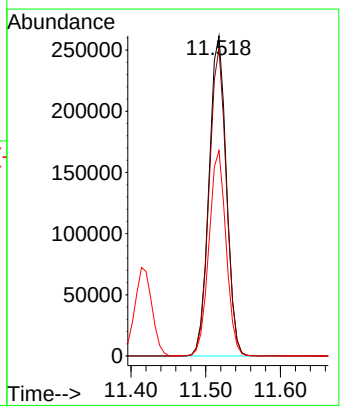
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

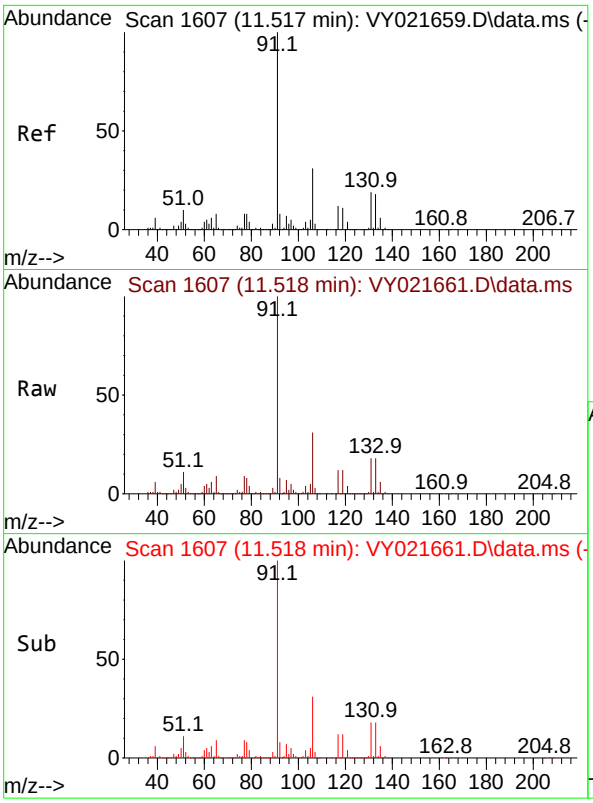


#66
1,1,1,2-Tetrachloroethane
Concen: 140.910 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:131 Resp: 420924

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	141.8
119	63.4	31.6	95.0

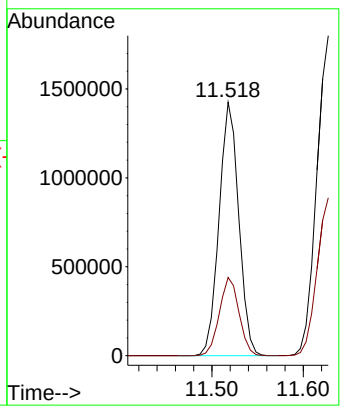




#67
Ethyl Benzene
Concen: 147.665 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 91 Resp: 213188

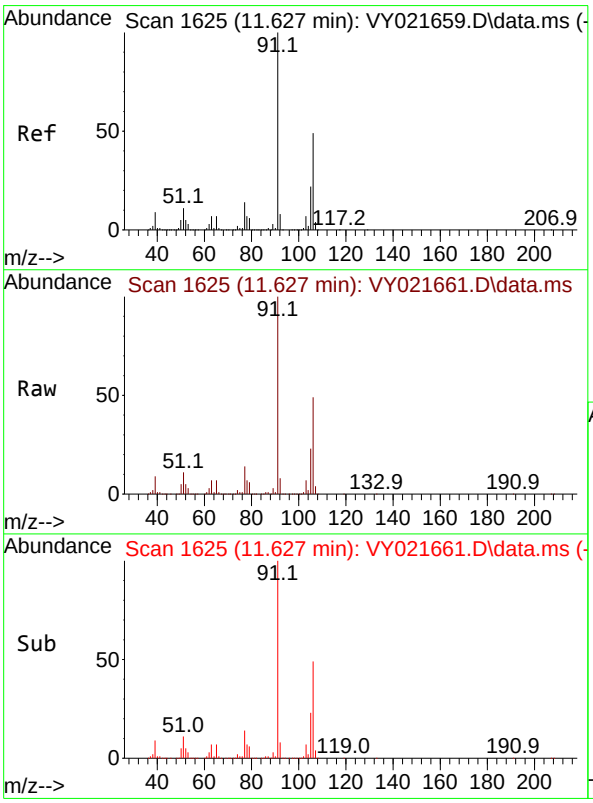
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

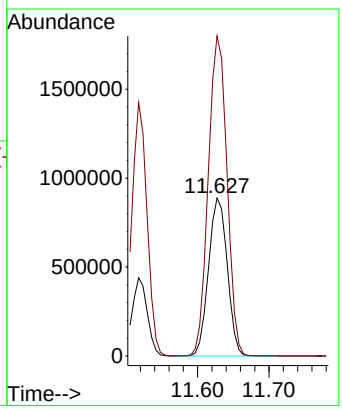
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

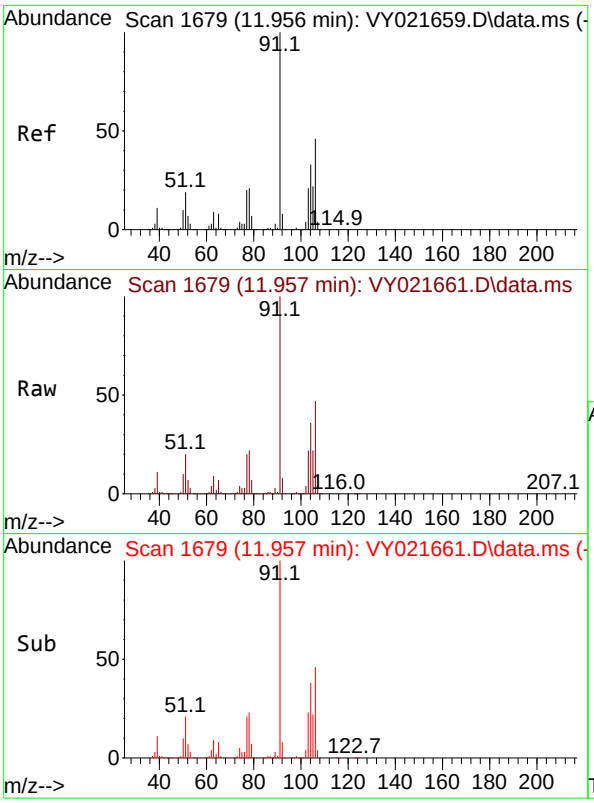


#68
m/p-Xylenes
Concen: 291.277 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:106 Resp: 1610305

Ion	Ratio	Lower	Upper
106	100		
91	203.1	162.4	243.6





#69
o-Xylene
Concen: 149.852 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

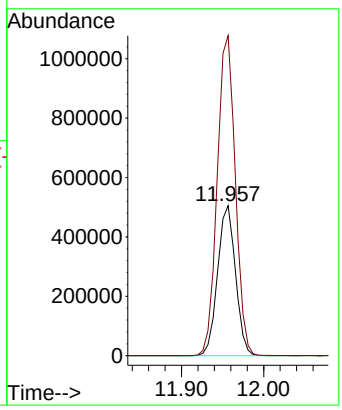
Tgt Ion:106 Resp: 76472

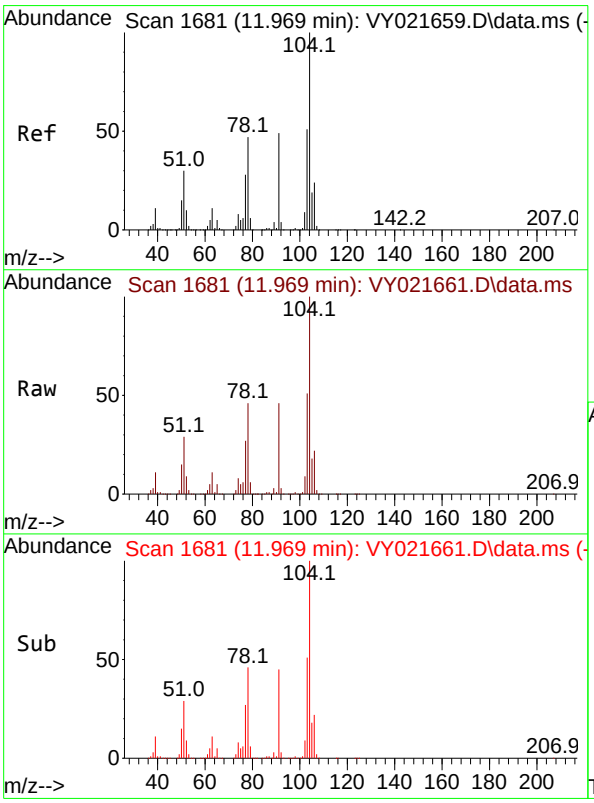
Ion	Ratio	Lower	Upper
106	100		
91	216.0	106.7	319.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

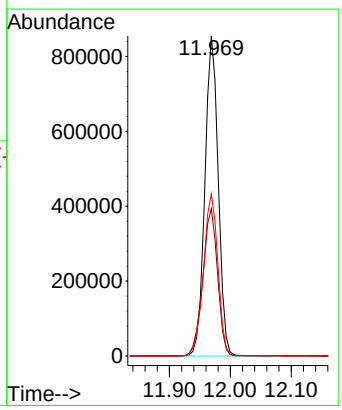


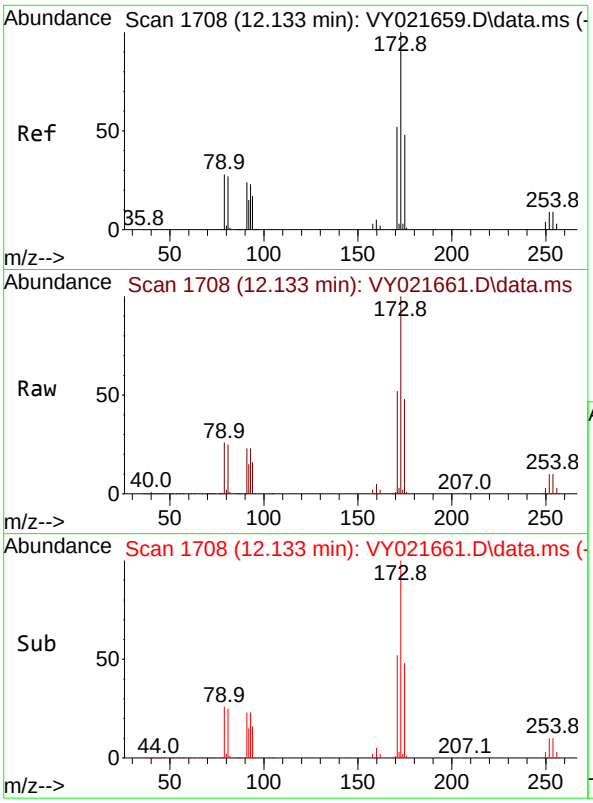


#70
Styrene
Concen: 152.877 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:104 Resp: 1300778

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.8	61.2
103	54.8	44.2	66.2

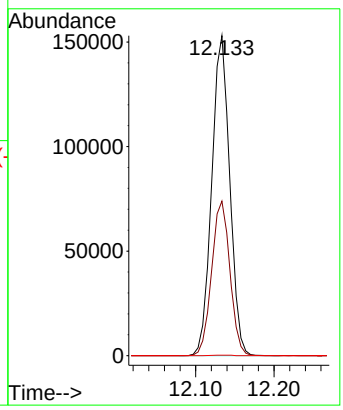




#71
Bromoform
Concen: 143.224 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:173 Resp: 24404

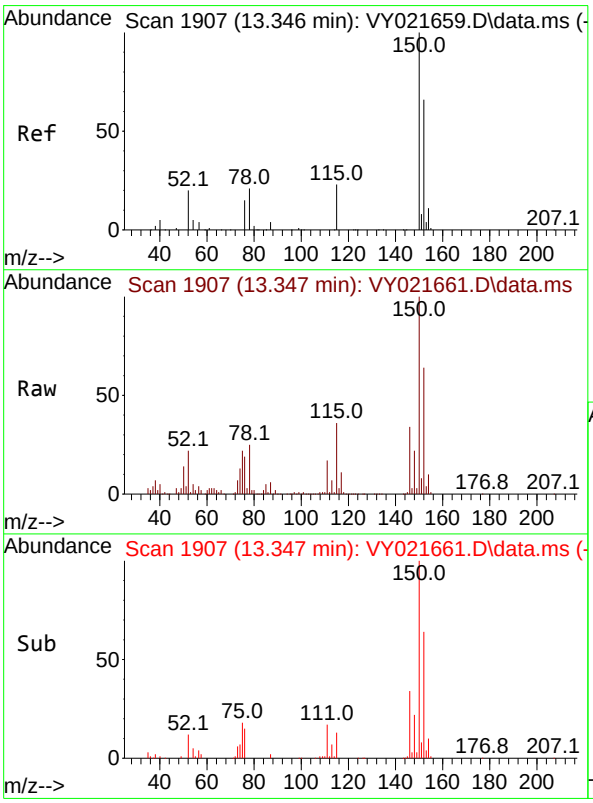
Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.3	73.0
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

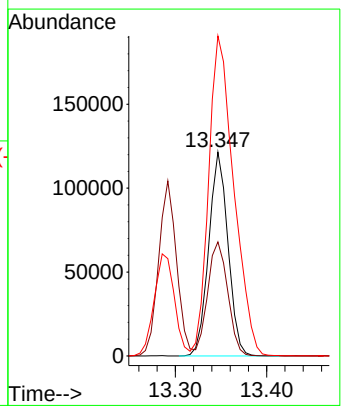
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

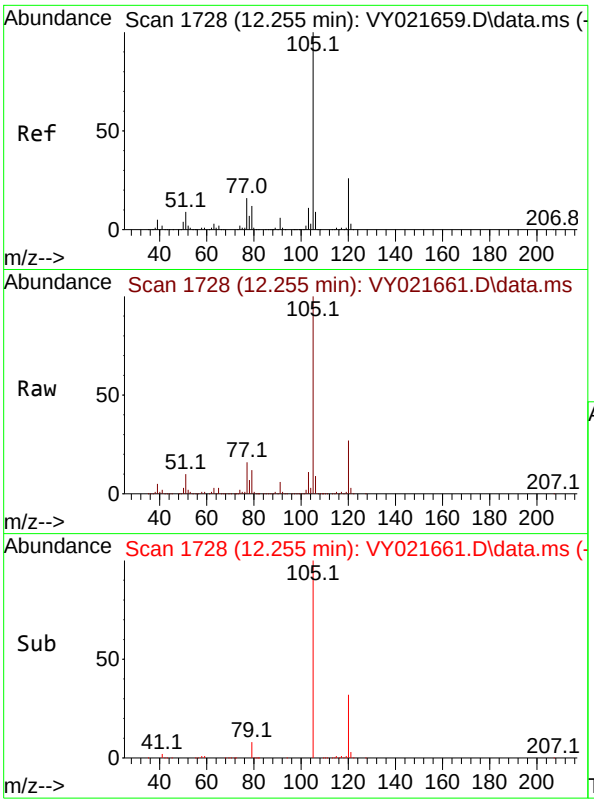


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:152 Resp: 177289

Ion	Ratio	Lower	Upper
152	100		
115	58.0	28.8	86.5
150	205.3	0.0	348.4

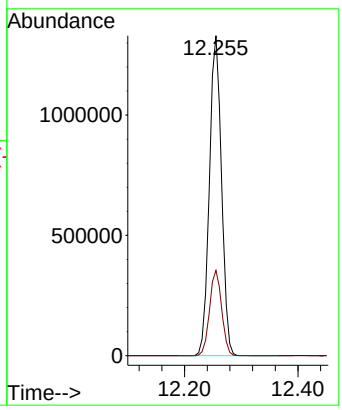




#73
Isopropylbenzene
Concen: 149.537 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:105 Resp: 196909

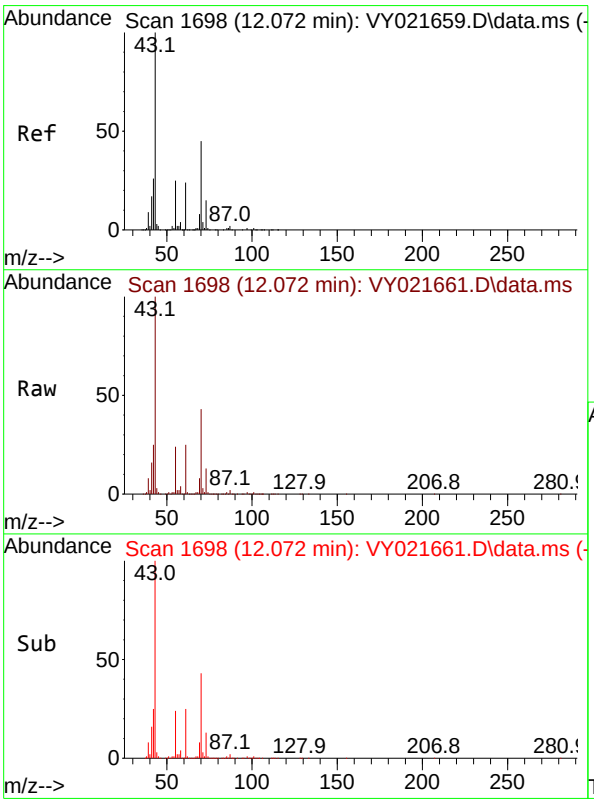
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

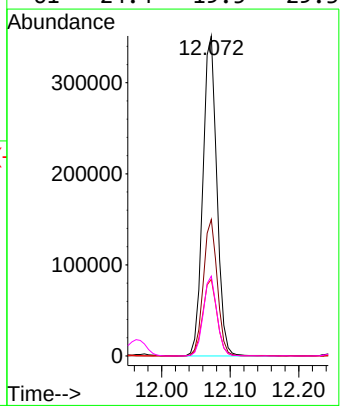
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

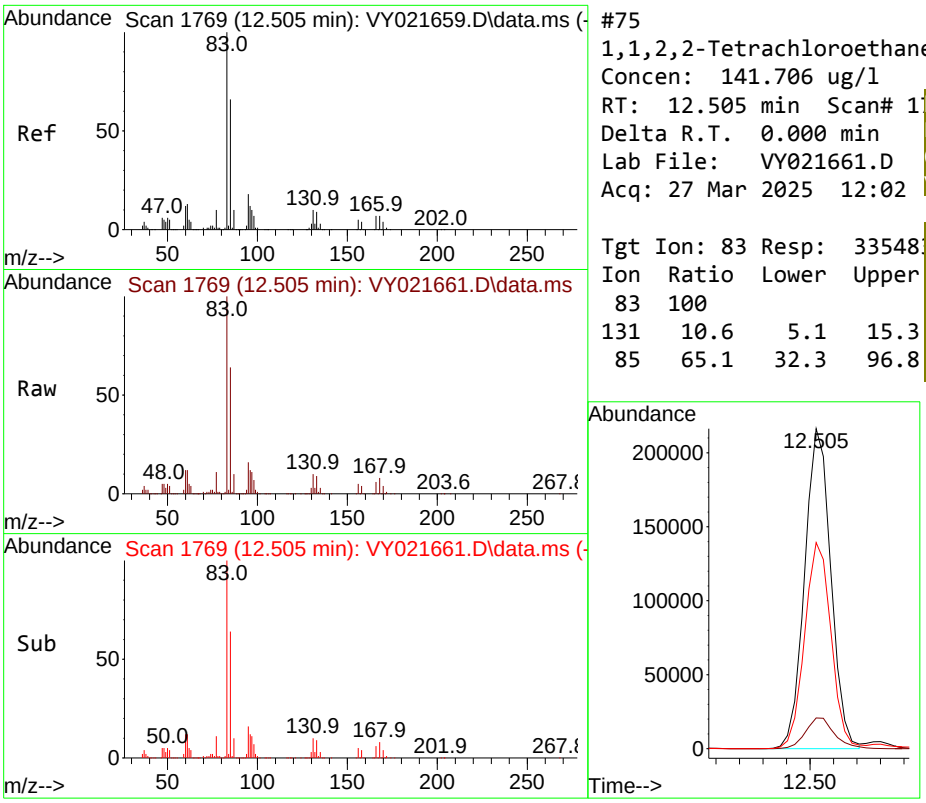


#74
N-amyl acetate
Concen: 161.437 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 43 Resp: 498903

Ion	Ratio	Lower	Upper
43	100		
70	42.6	34.7	52.1
55	24.5	21.2	31.8
61	24.4	19.5	29.3





#75
1,1,2,2-Tetrachloroethane
Concen: 141.706 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

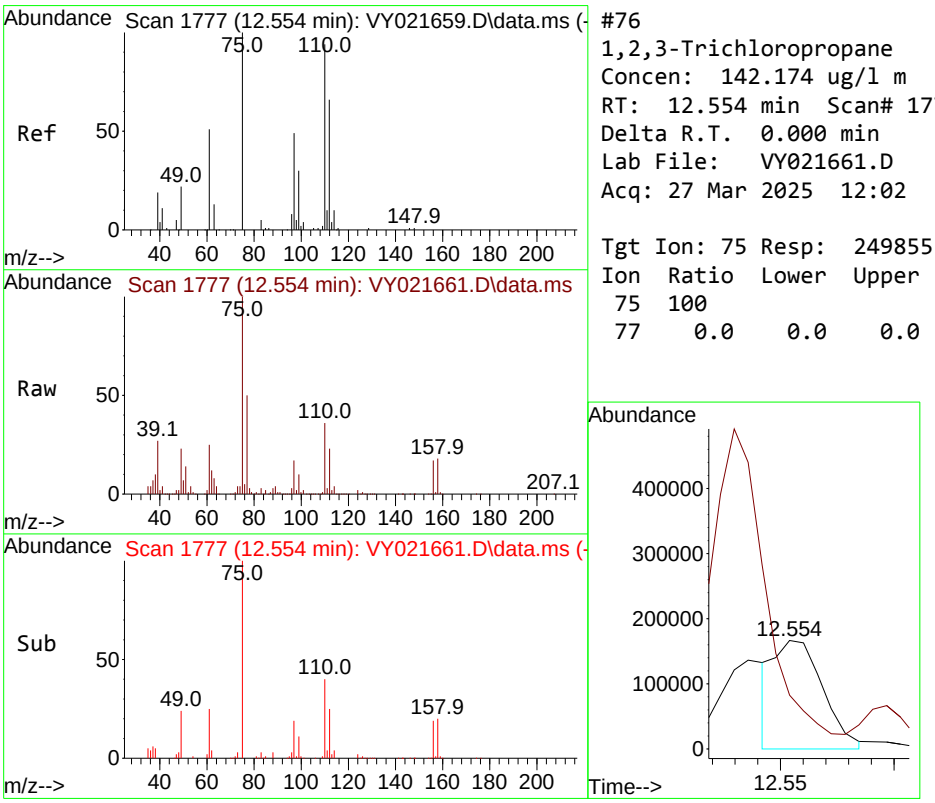
Tgt Ion: 83 Resp: 33548

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	65.1	32.3	96.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

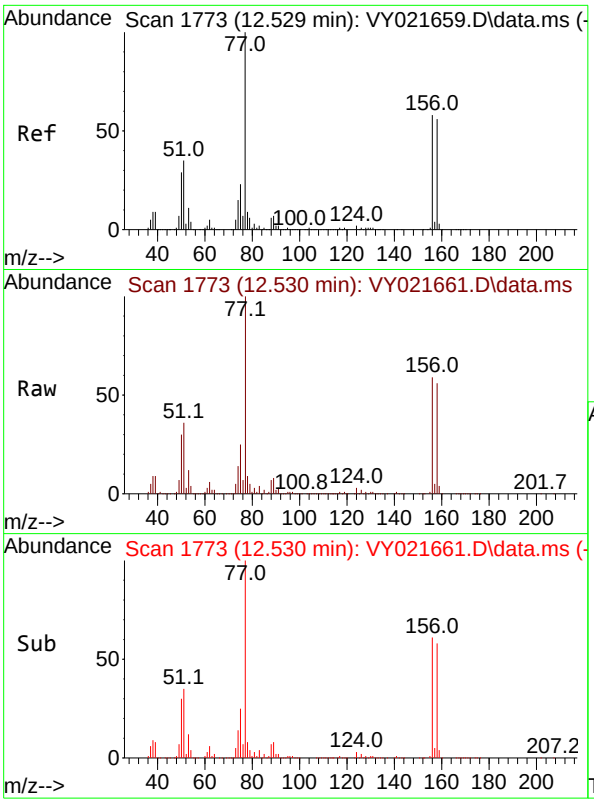
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#76
1,2,3-Trichloropropane
Concen: 142.174 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 75 Resp: 249855

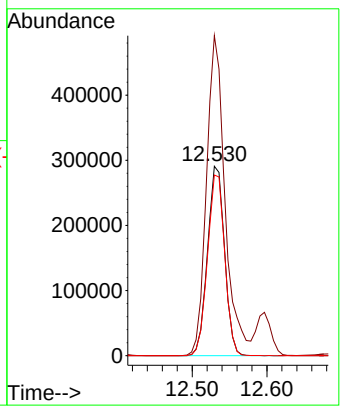
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



#77
Bromobenzene
Concen: 145.881 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:156 Resp: 46122

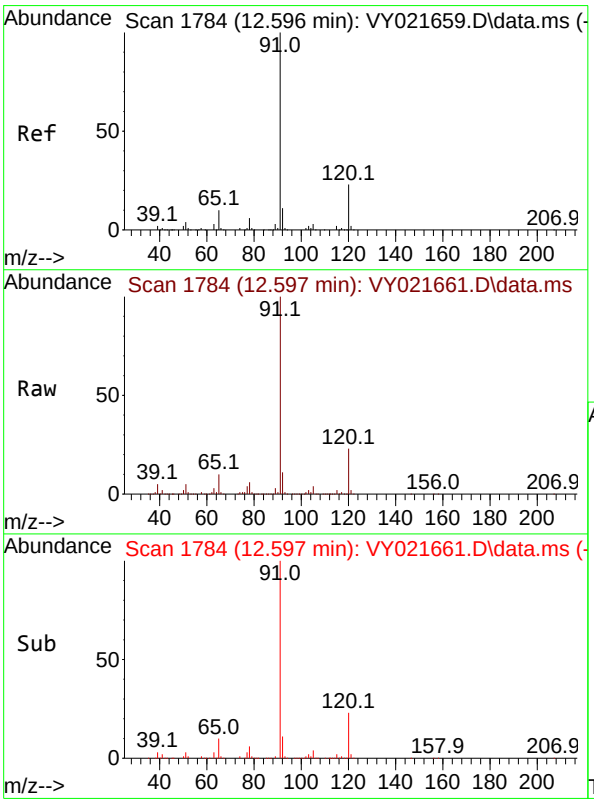
Ion	Ratio	Lower	Upper
156	100		
77	184.1	92.8	278.3
158	96.6	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

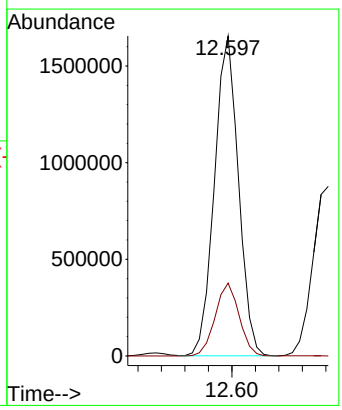
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

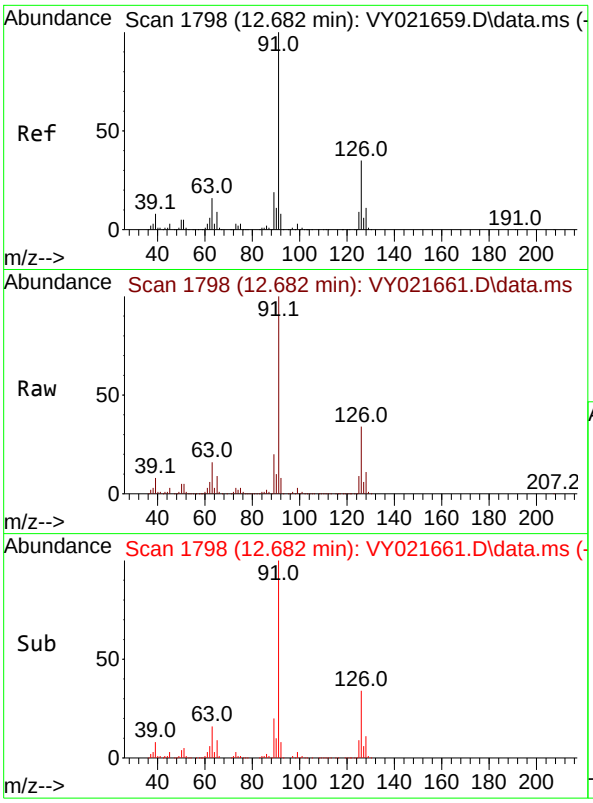


#78
n-propylbenzene
Concen: 148.082 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 91 Resp: 2344286

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.3	33.9

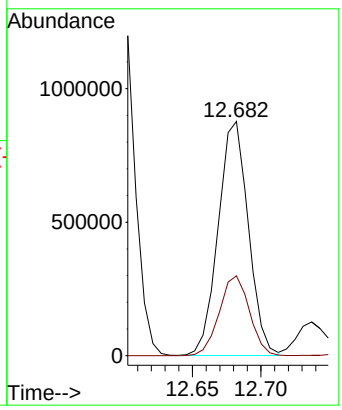




#79
2-Chlorotoluene
Concen: 146.095 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 91 Resp: 134332

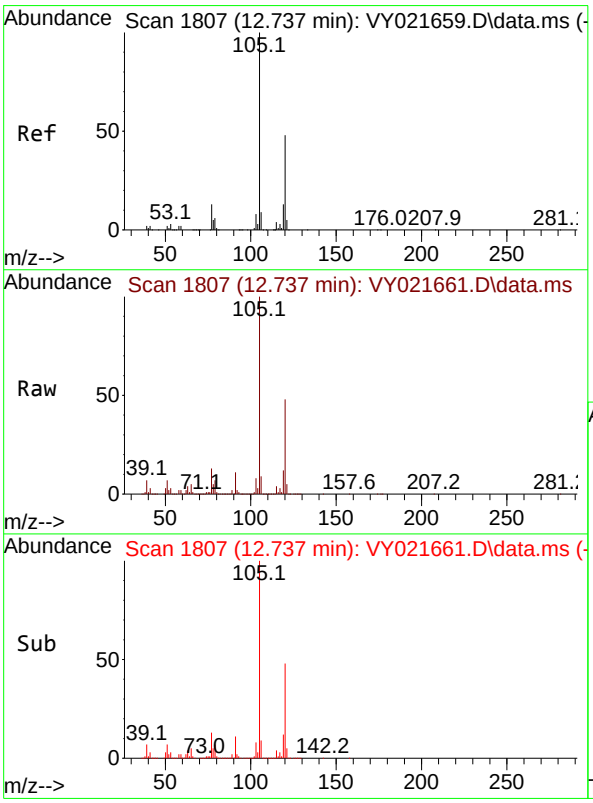
Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

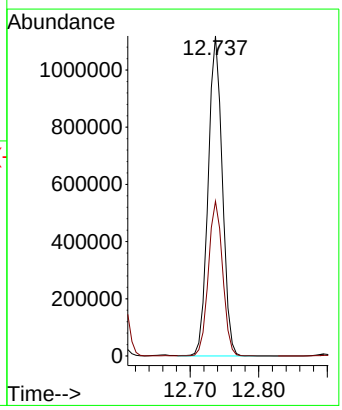
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

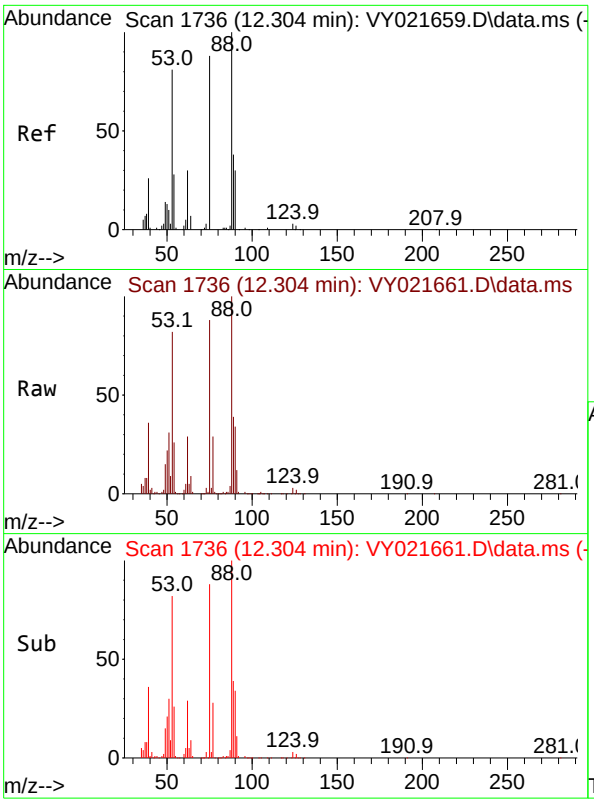


#80
1,3,5-Trimethylbenzene
Concen: 149.397 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:105 Resp: 1607812

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.5	73.5

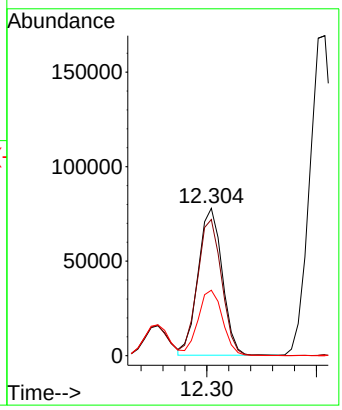




#81
trans-1,4-Dichloro-2-butene
Concen: 156.137 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 75 Resp: 11908

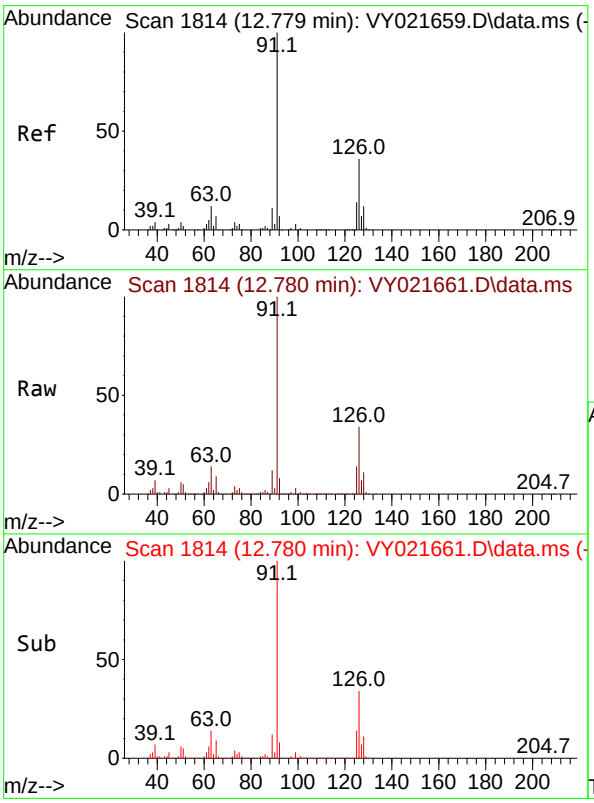
Ion	Ratio	Lower	Upper
75	100		
53	93.4	76.1	114.1
89	44.8	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

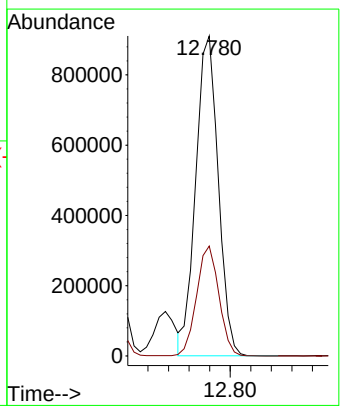
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

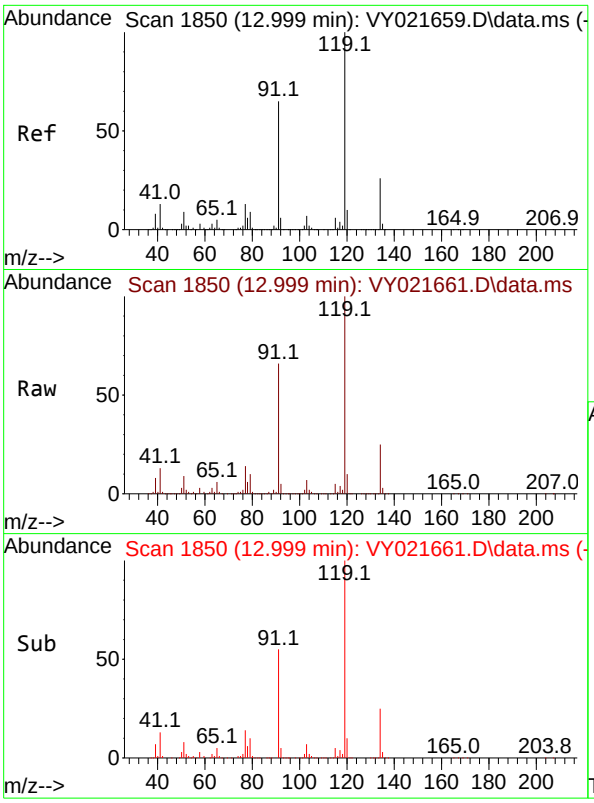


#82
4-Chlorotoluene
Concen: 144.608 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 91 Resp: 1386233

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.0	50.9

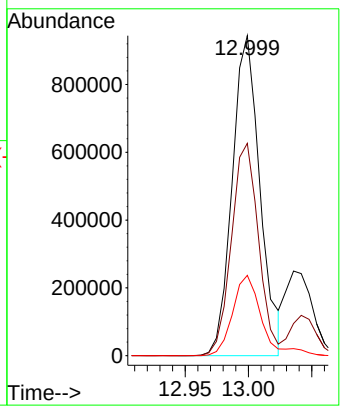




#83
tert-Butylbenzene
Concen: 150.647 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:119 Resp: 144405

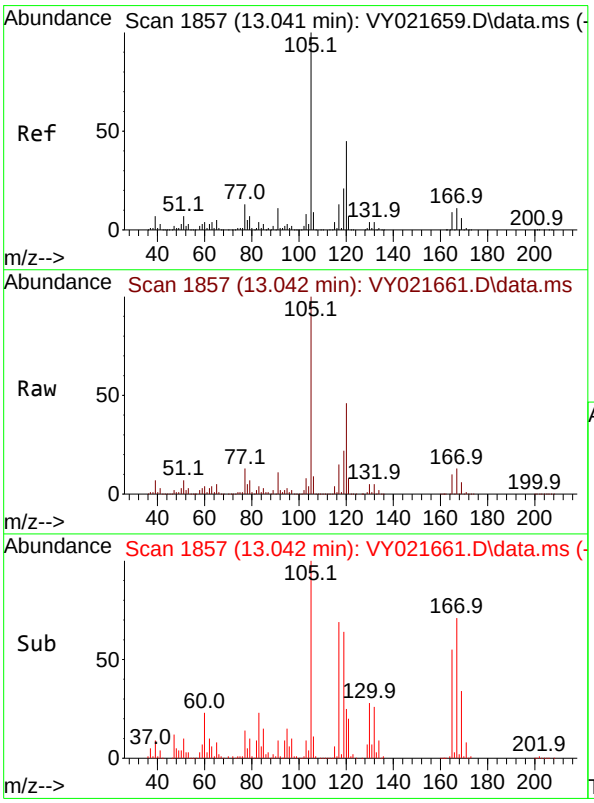
Ion	Ratio	Lower	Upper
119	100		
91	64.7	32.6	97.7
134	26.3	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

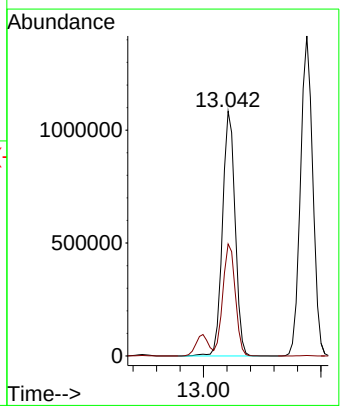
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

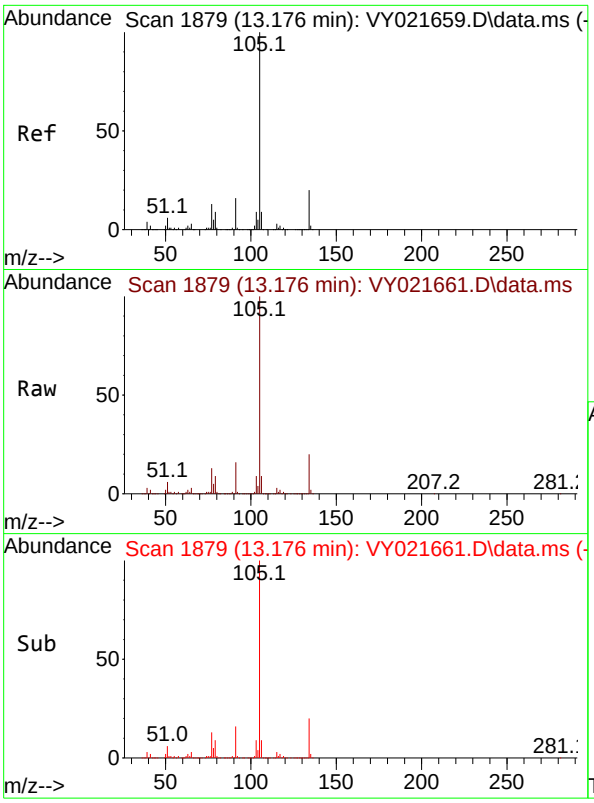


#84
1,2,4-Trimethylbenzene
Concen: 152.003 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:105 Resp: 1616812

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.7	68.1





#85
sec-Butylbenzene
Concen: 146.493 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

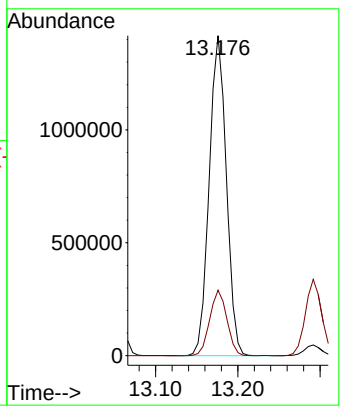
Tgt Ion:105 Resp: 205215

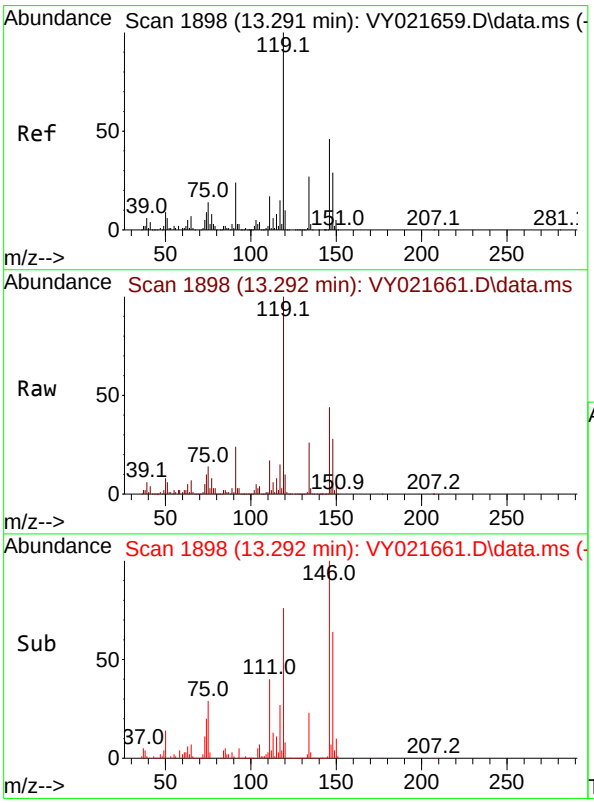
Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.1	30.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

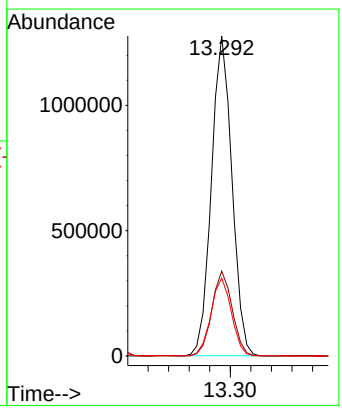


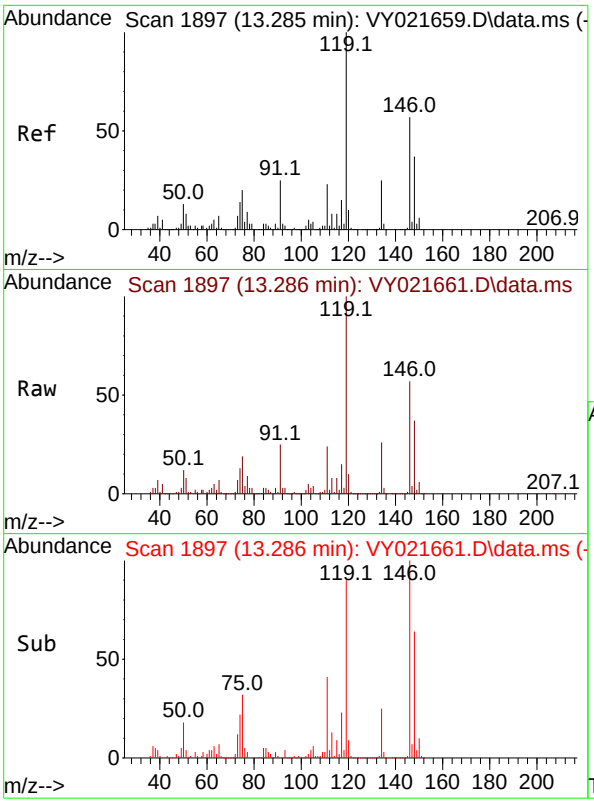


#86
p-Isopropyltoluene
Concen: 152.863 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:119 Resp: 1769866

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.5
91	24.2	12.0	36.0

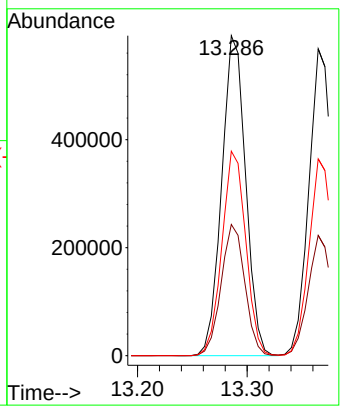




#87
1,3-Dichlorobenzene
Concen: 144.177 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:146 Resp: 89807

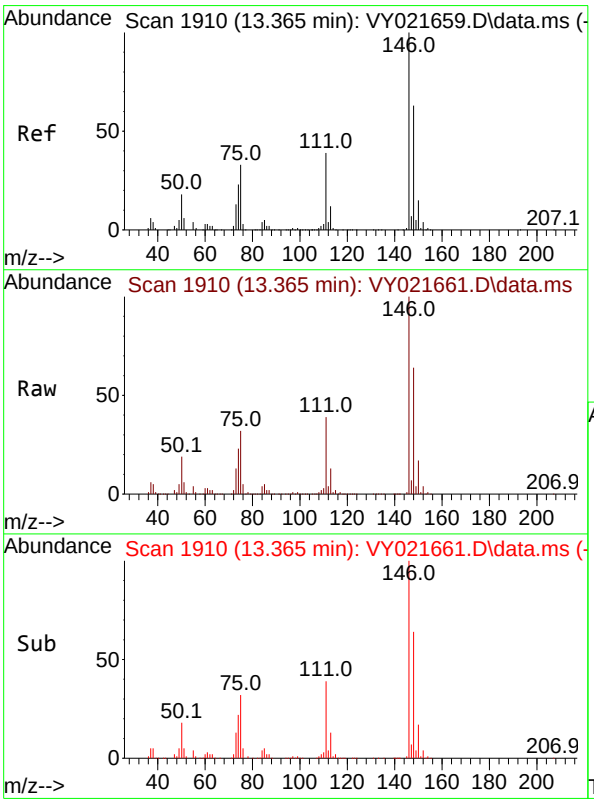
Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.0	60.0
148	63.7	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

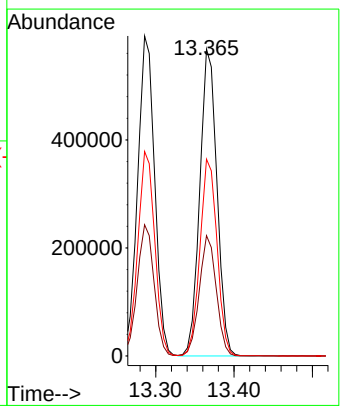
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

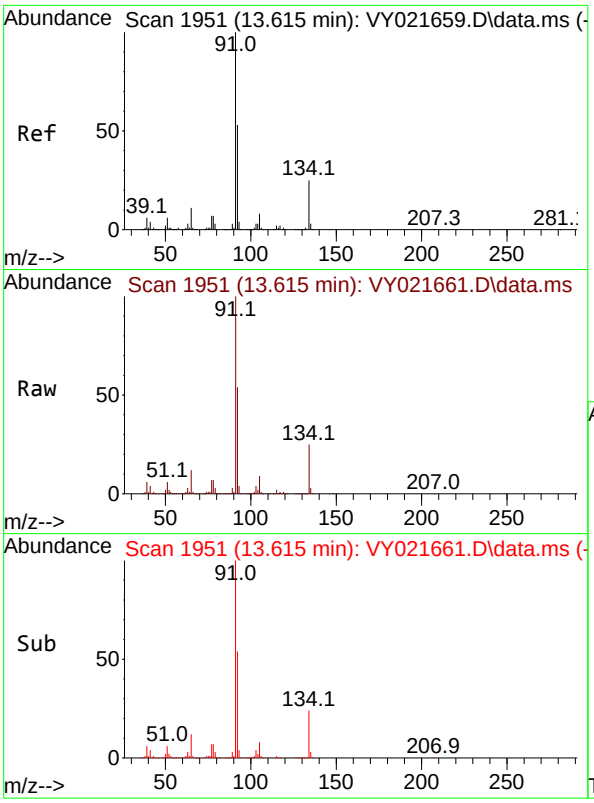


#88
1,4-Dichlorobenzene
Concen: 140.489 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:146 Resp: 864599

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.1
148	63.9	31.5	94.5

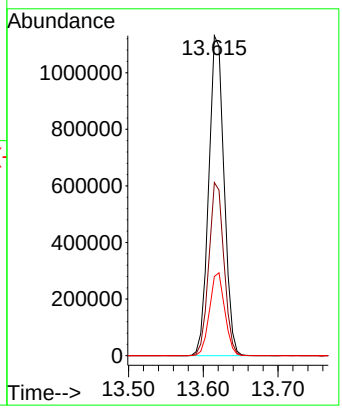




#89
n-Butylbenzene
Concen: 150.273 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 91 Resp: 160906

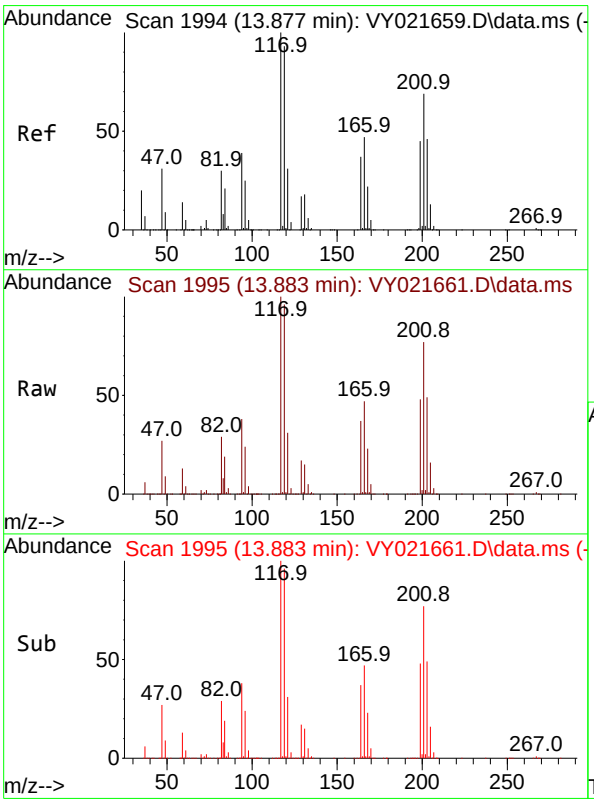
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.4	79.2
134	25.9	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

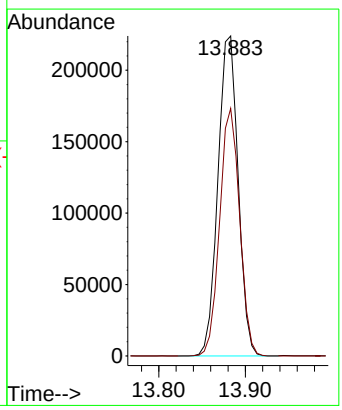
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

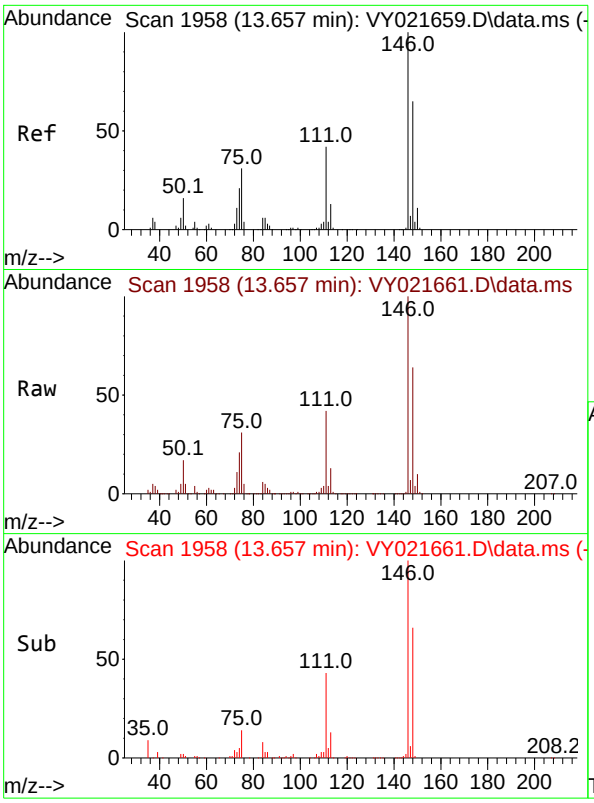


#90
Hexachloroethane
Concen: 143.167 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:117 Resp: 363244

Ion	Ratio	Lower	Upper
117	100		
201	76.3	37.4	112.1

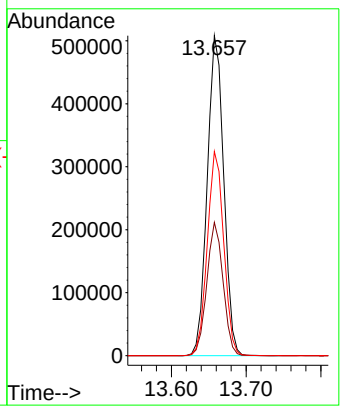




#91
1,2-Dichlorobenzene
Concen: 143.668 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:146 Resp: 77902

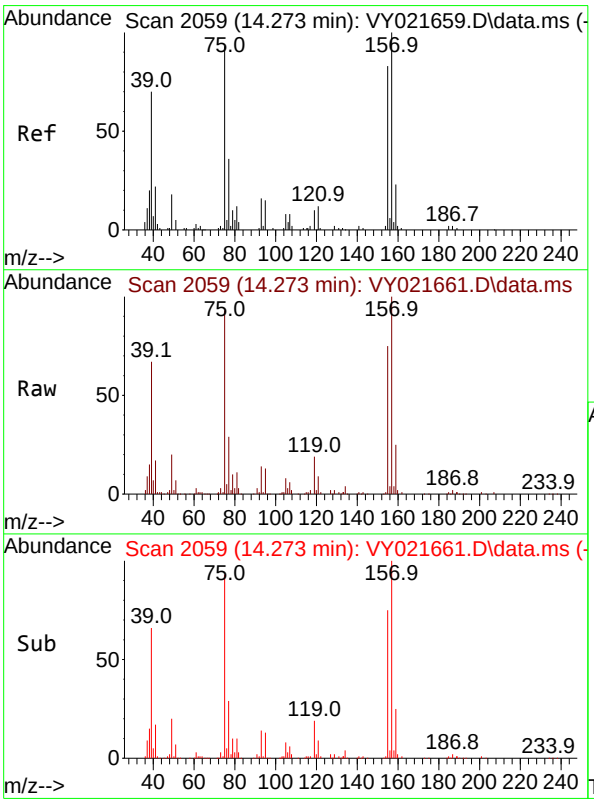
Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.7	62.1
148	63.6	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

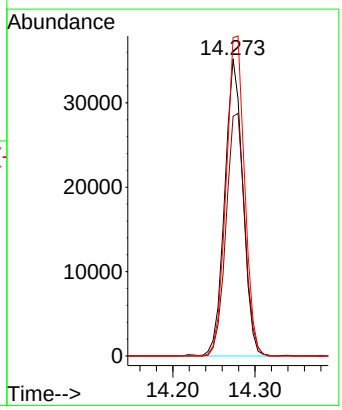
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

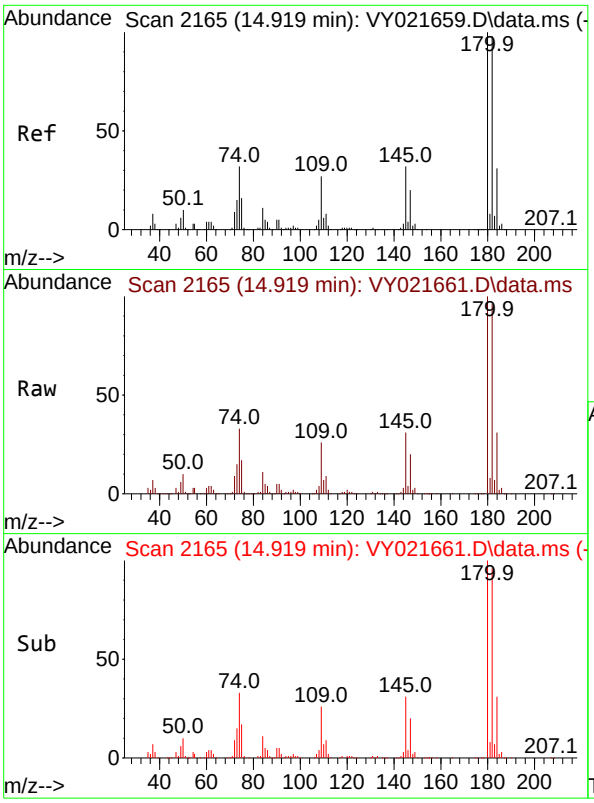


#92
1,2-Dibromo-3-Chloropropane
Concen: 147.345 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion: 75 Resp: 54066

Ion	Ratio	Lower	Upper
75	100		
155	84.5	43.0	128.8
157	109.7	54.0	162.0





#93
1,2,4-Trichlorobenzene
Concen: 160.803 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

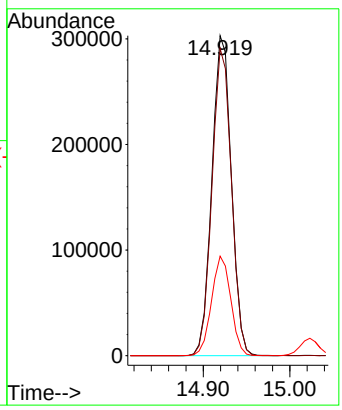
Tgt Ion:180 Resp: 47284

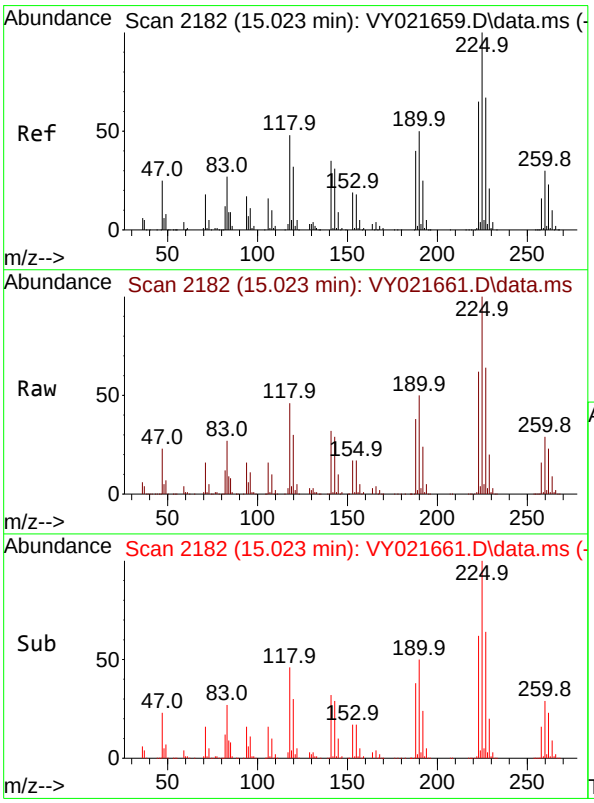
Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.6
145	30.8	14.9	44.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

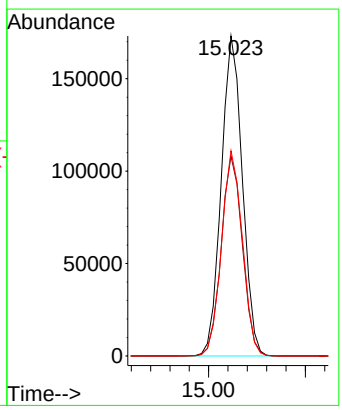


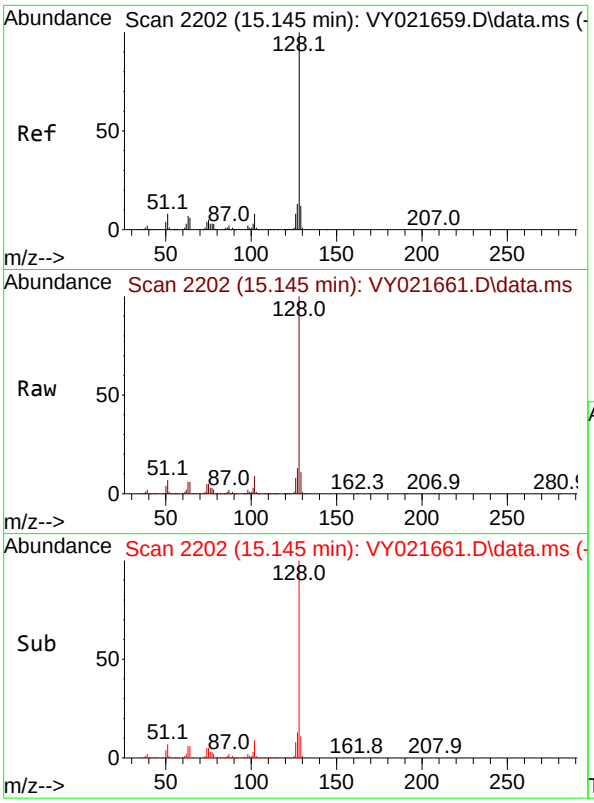


#94
Hexachlorobutadiene
Concen: 142.491 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:225 Resp: 261678

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.9	95.7
227	63.4	32.4	97.0

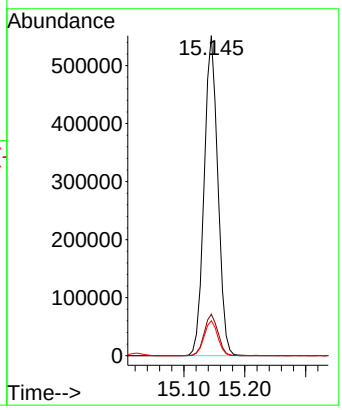




#95
Naphthalene
Concen: 176.342 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:128 Resp: 85949

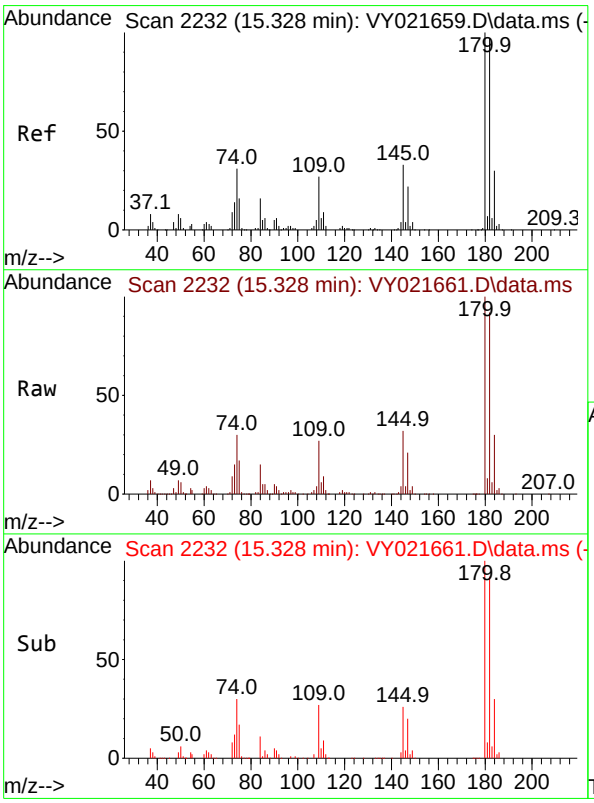
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.8	16.2
129	10.9	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

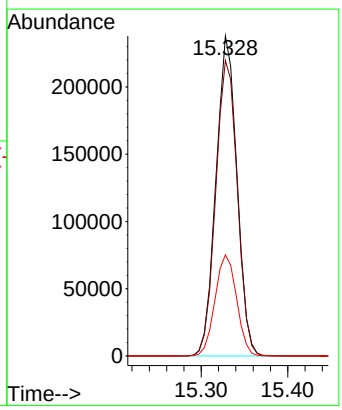
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 159.646 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021661.D
Acq: 27 Mar 2025 12:02

Tgt Ion:180 Resp: 400315

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.5
145	32.5	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	241281	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	378246	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	335061	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	166949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	137385	52.553	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.100%			
35) Dibromofluoromethane	7.634	113	133092	54.243	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.480%			
50) Toluene-d8	10.109	98	514482	55.117	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 110.240%			
62) 4-Bromofluorobenzene	12.407	95	174721	55.339	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 110.680%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	121620	48.632	ug/l	99
3) Chloromethane	2.068	50	178572	50.781	ug/l	99
4) Vinyl Chloride	2.202	62	193909	48.759	ug/l	99
5) Bromomethane	2.592	94	133650	49.274	ug/l	99
6) Chloroethane	2.732	64	131646	50.589	ug/l	98
7) Trichlorofluoromethane	3.055	101	264850	51.989	ug/l	96
8) Diethyl Ether	3.458	74	71773	51.807	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.817	101	129542	48.213	ug/l	97
10) Methyl Iodide	4.006	142	144020	48.859	ug/l	99
11) Tert butyl alcohol	4.860	59	40598	239.093	ug/l	98
12) 1,1-Dichloroethene	3.787	96	123904	48.958	ug/l	99
13) Acrolein	3.653	56	77430	249.738	ug/l	100
14) Allyl chloride	4.384	41	203289	50.380	ug/l	99
15) Acrylonitrile	5.061	53	142349	246.085	ug/l	99
16) Acetone	3.866	43	125654	234.856	ug/l	99
17) Carbon Disulfide	4.104	76	412021	49.428	ug/l	99
18) Methyl Acetate	4.384	43	64580	48.703	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	318579	50.561	ug/l	97
20) Methylene Chloride	4.616	84	139443	53.536	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	139842	50.186	ug/l	95
22) Diisopropyl ether	6.018	45	434011	51.273	ug/l	98
23) Vinyl Acetate	5.957	43	1270842	256.638	ug/l	98
24) 1,1-Dichloroethane	5.915	63	253080	50.001	ug/l	99
25) 2-Butanone	6.890	43	184108	240.921	ug/l	99
26) 2,2-Dichloropropane	6.884	77	221076	49.103	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	159206	50.806	ug/l	99
28) Bromochloromethane	7.244	49	107500	50.360	ug/l	98
29) Tetrahydrofuran	7.262	42	121613	247.271	ug/l	99
30) Chloroform	7.420	83	260540	49.490	ug/l	100
31) Cyclohexane	7.701	56	220748	47.844	ug/l	97
32) 1,1,1-Trichloroethane	7.615	97	234663	49.319	ug/l	99
36) 1,1-Dichloropropene	7.835	75	188082	50.326	ug/l	100
37) Ethyl Acetate	6.981	43	86681	49.145	ug/l	99
38) Carbon Tetrachloride	7.817	117	213223	49.814	ug/l	99
39) Methylcyclohexane	9.109	83	231457	51.843	ug/l	96
40) Benzene	8.079	78	566027	50.574	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	44469	47.475	ug/l	#	100
42) 1,2-Dichloroethane	8.158	62	156359	49.556	ug/l		99
43) Isopropyl Acetate	8.195	43	167476	50.106	ug/l	#	87
44) Trichloroethene	8.865	130	142392	49.933	ug/l		98
45) 1,2-Dichloropropane	9.140	63	132882	50.158	ug/l		95
46) Dibromomethane	9.231	93	76421	50.052	ug/l		98
47) Bromodichloromethane	9.426	83	199912	50.530	ug/l		99
48) Methyl methacrylate	9.219	41	79887	52.076	ug/l		98
49) 1,4-Dioxane	9.225	88	16464	1006.593	ug/l		90
51) 4-Methyl-2-Pentanone	9.999	43	439879	252.890	ug/l		100
52) Toluene	10.170	92	360002	51.555	ug/l		99
53) t-1,3-Dichloropropene	10.395	75	179752	51.152	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	212066	51.154	ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	97567	49.656	ug/l		99
56) Ethyl methacrylate	10.438	69	136411	54.371	ug/l		98
57) 1,3-Dichloropropane	10.719	76	171579	50.563	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	338673	276.714	ug/l		99
59) 2-Hexanone	10.761	43	295472	255.065	ug/l		99
60) Dibromochloromethane	10.914	129	135955	50.679	ug/l		100
61) 1,2-Dibromoethane	11.017	107	93947	50.970	ug/l		99
64) Tetrachloroethene	10.645	164	145736	47.757	ug/l		98
65) Chlorobenzene	11.444	112	386987	50.384	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	138442	50.802	ug/l		99
67) Ethyl Benzene	11.517	91	689434	52.346	ug/l		100
68) m/p-Xylenes	11.627	106	531589	105.402	ug/l		100
69) o-Xylene	11.956	106	247091	53.075	ug/l		99
70) Styrene	11.968	104	416261	53.627	ug/l		99
71) Bromoform	12.133	173	78932	50.778	ug/l	#	99
73) Isopropylbenzene	12.255	105	653541	52.705	ug/l		100
74) N-amyl acetate	12.072	43	152268	52.323	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	109833	49.266	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	70644m	42.688	ug/l		
77) Bromobenzene	12.535	156	152211	51.125	ug/l		99
78) n-propylbenzene	12.596	91	792814	53.182	ug/l		100
79) 2-Chlorotoluene	12.682	91	447402	51.671	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	539512	53.236	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	35543	49.488	ug/l		97
82) 4-Chlorotoluene	12.779	91	469122	51.969	ug/l		100
83) tert-Butylbenzene	12.999	119	474947	52.616	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	535411	53.454	ug/l		100
85) sec-Butylbenzene	13.175	105	692180	52.471	ug/l		100
86) p-Isopropyltoluene	13.291	119	583069	53.479	ug/l		100
87) 1,3-Dichlorobenzene	13.291	146	299075	50.987	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	288264	49.741	ug/l		99
89) n-Butylbenzene	13.621	91	533666	52.927	ug/l		100
90) Hexachloroethane	13.883	117	120546	50.454	ug/l		100
91) 1,2-Dichlorobenzene	13.663	146	257071	50.346	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	16750	48.476	ug/l		99
93) 1,2,4-Trichlorobenzene	14.925	180	142409	51.429	ug/l		100
94) Hexachlorobutadiene	15.029	225	86891	50.245	ug/l		96
95) Naphthalene	15.145	128	237561	51.759	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	119575	50.640	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

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

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

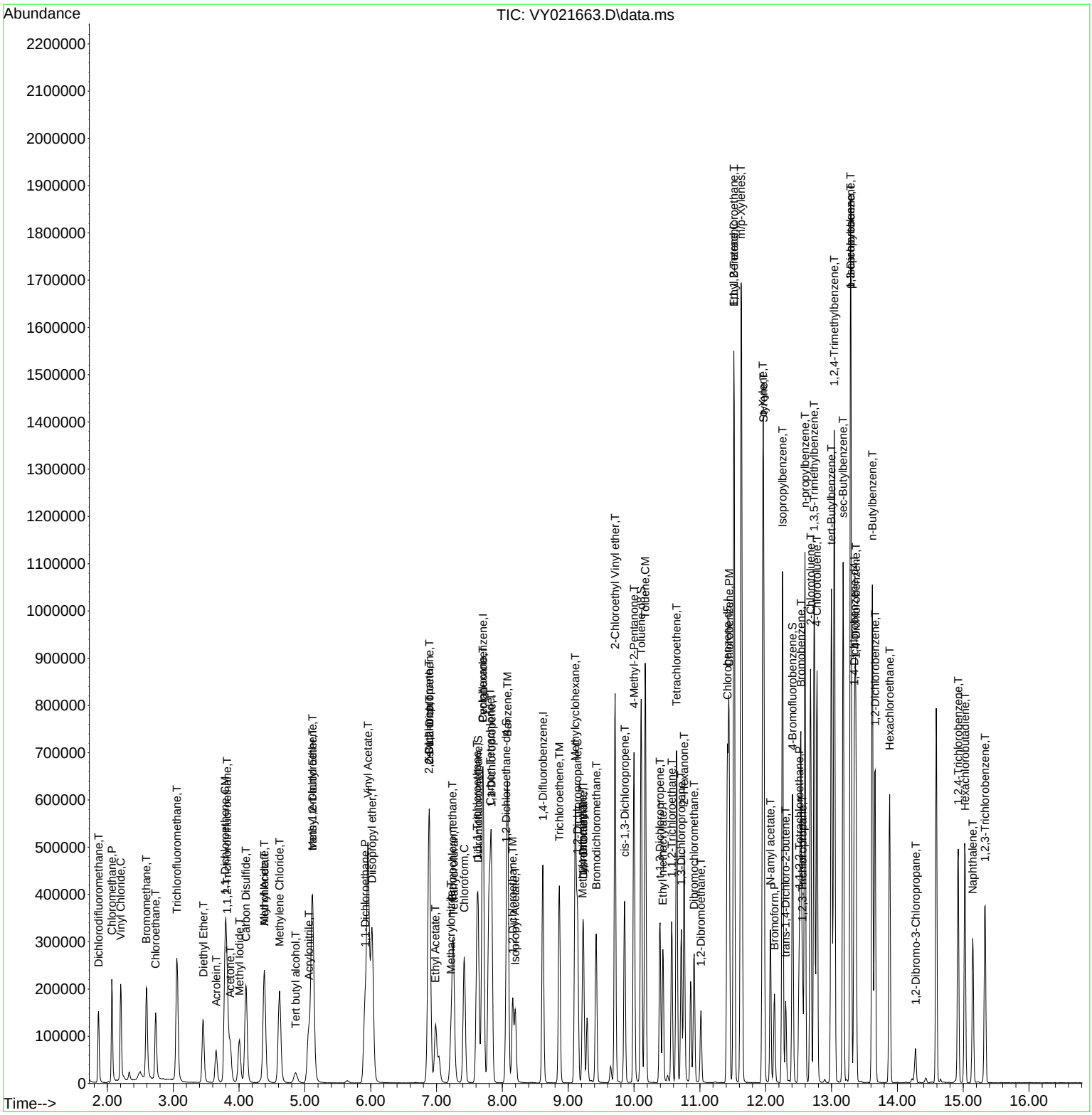
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

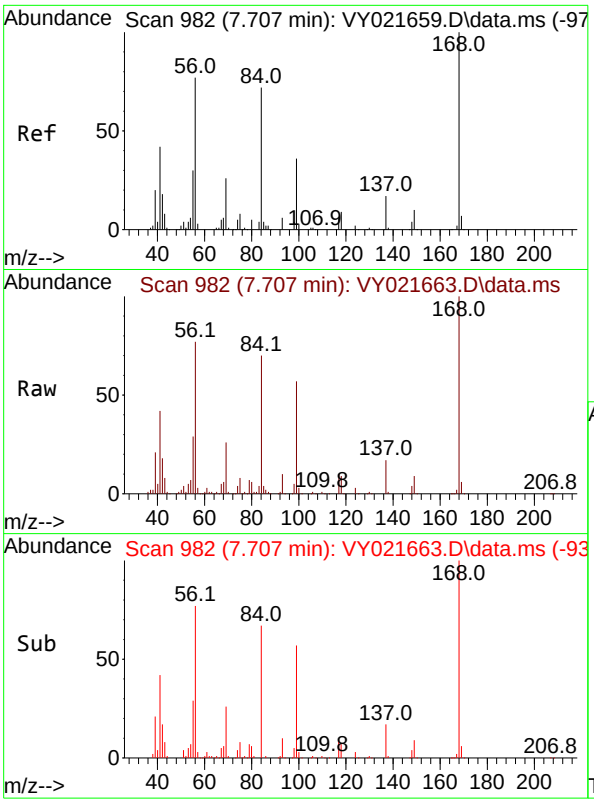
Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

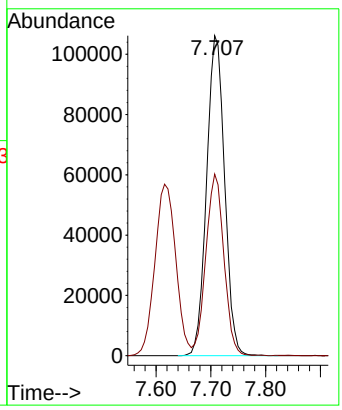




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:168 Resp: 24128

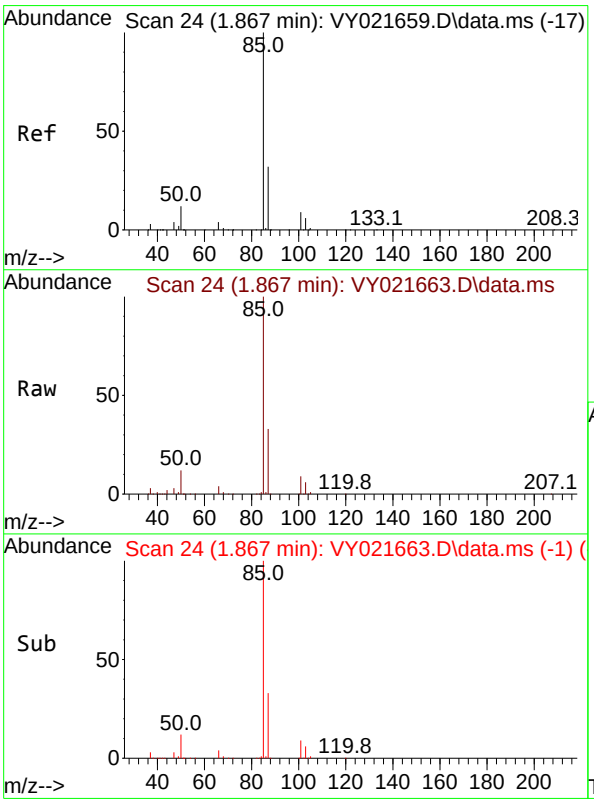
Ion	Ratio	Lower	Upper
168	100		
99	56.7	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

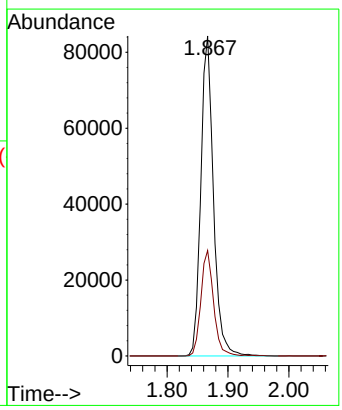
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

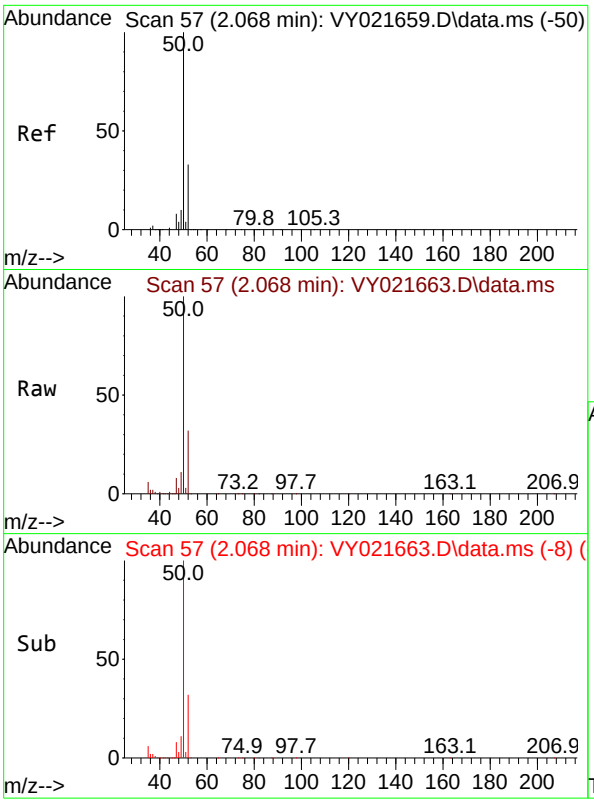


#2
Dichlorodifluoromethane
Concen: 48.632 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 85 Resp: 121620

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.2	48.6

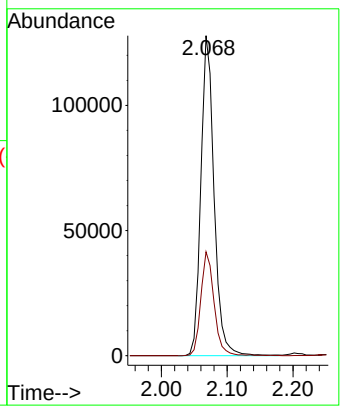




#3
Chloromethane
Concen: 50.781 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 50 Resp: 17857

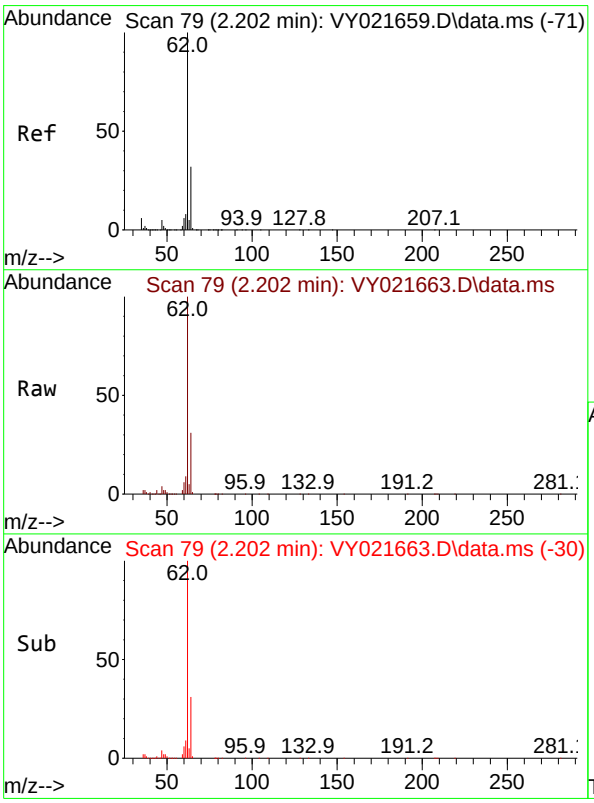
Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

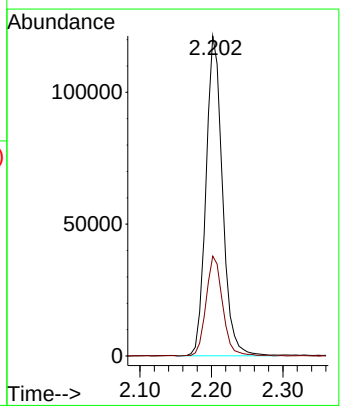
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

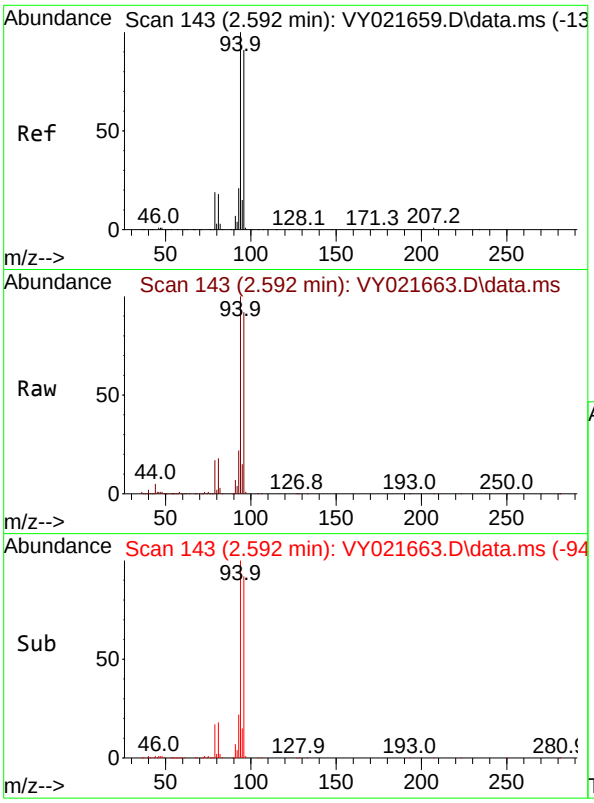


#4
Vinyl Chloride
Concen: 48.759 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 62 Resp: 193909

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.5	38.3

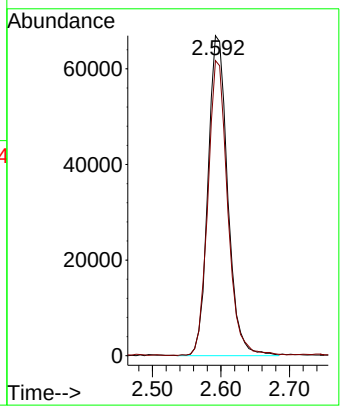




#5
Bromomethane
Concen: 49.274 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 94 Resp: 13365

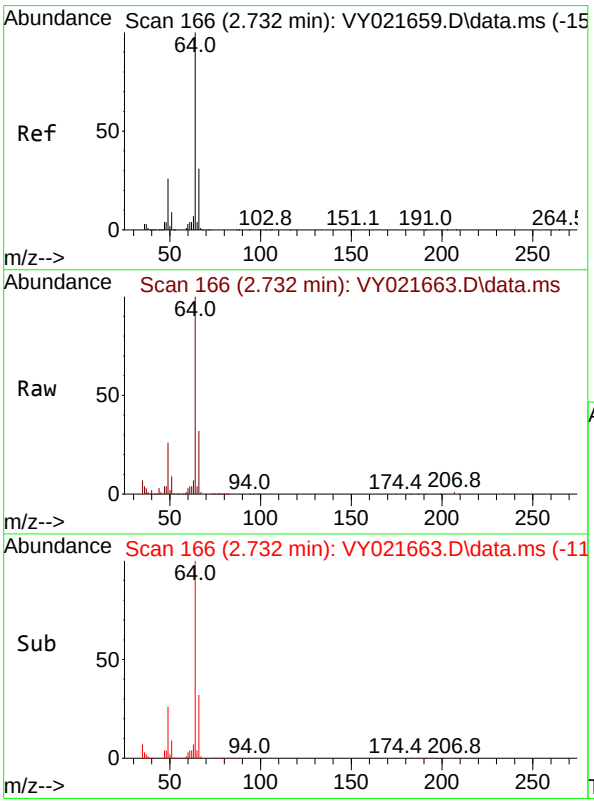
Ion	Ratio	Lower	Upper
94	100		
96	92.1	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

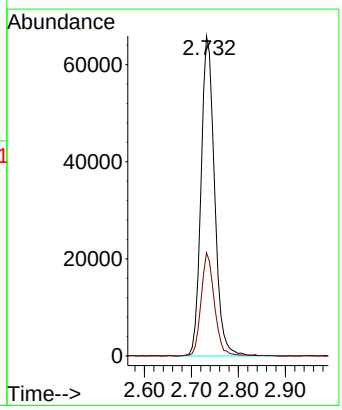
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

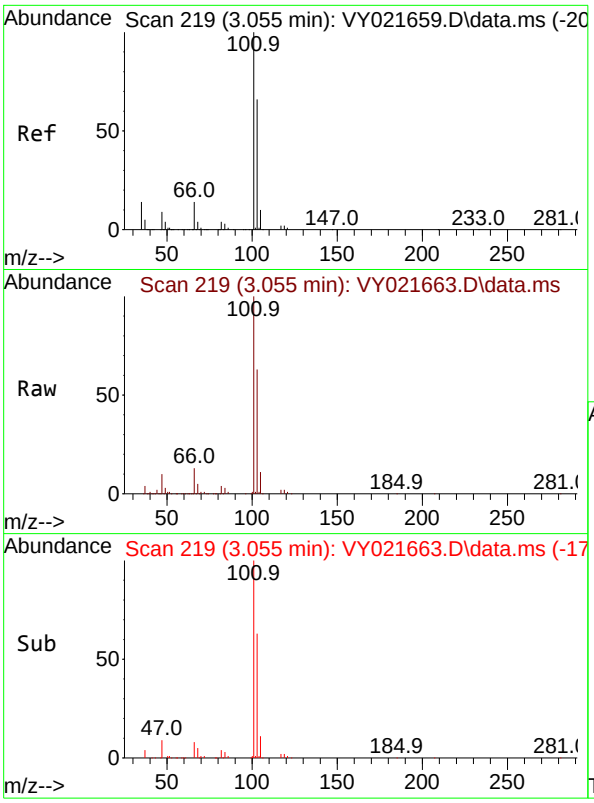


#6
Chloroethane
Concen: 50.589 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 64 Resp: 131646

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.9	37.3

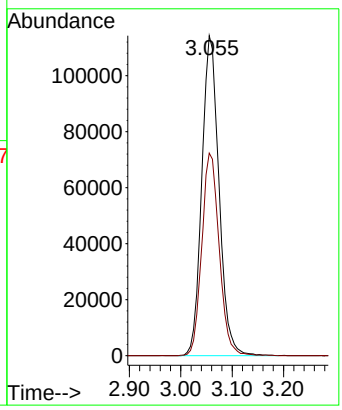




#7
Trichlorofluoromethane
Concen: 51.989 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:101 Resp: 26485

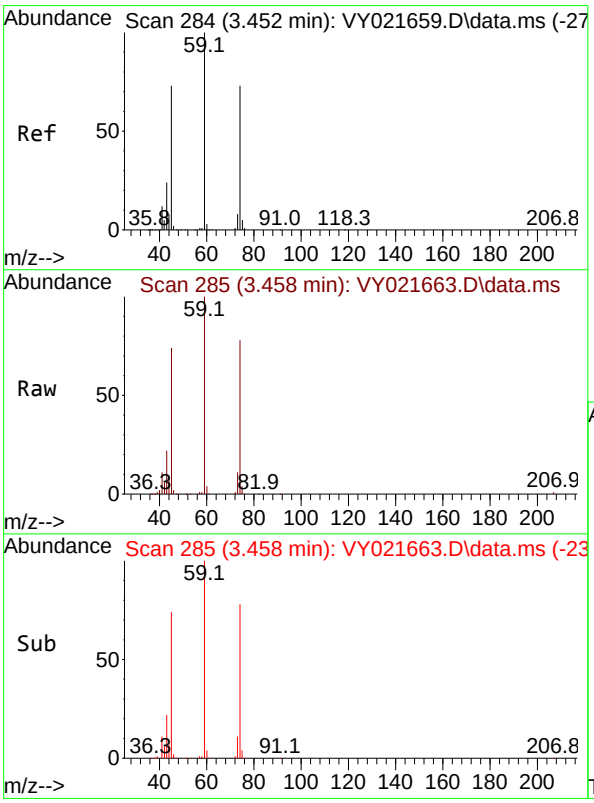
Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

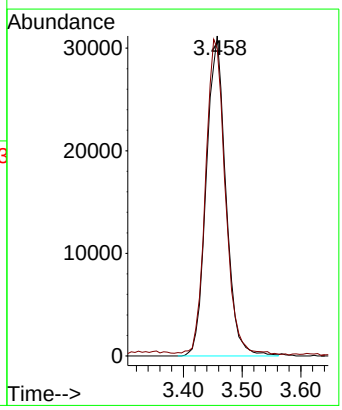
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

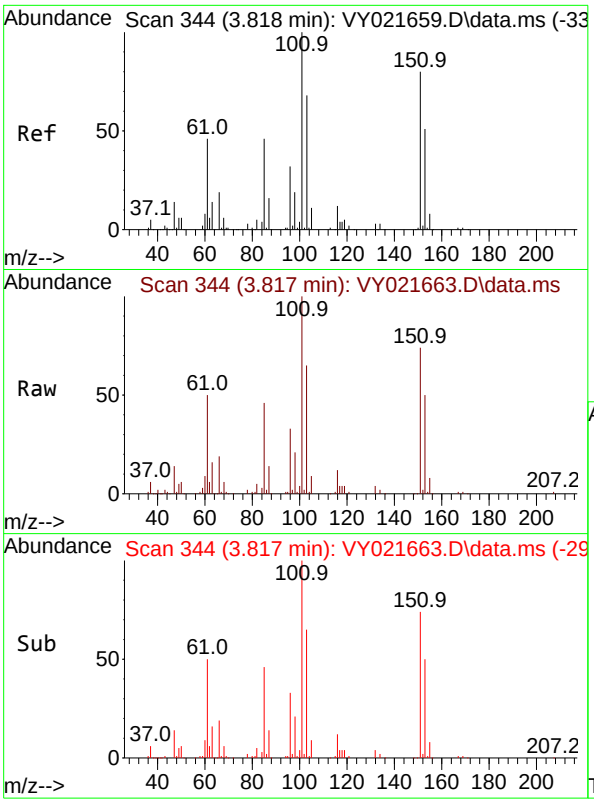


#8
Diethyl Ether
Concen: 51.807 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 74 Resp: 71773

Ion	Ratio	Lower	Upper
74	100		
45	101.3	48.6	145.8

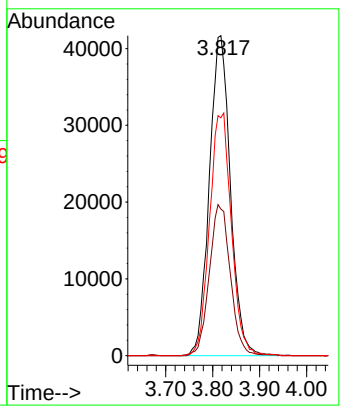




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.213 ug/l
RT: 3.817 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:101 Resp: 12954

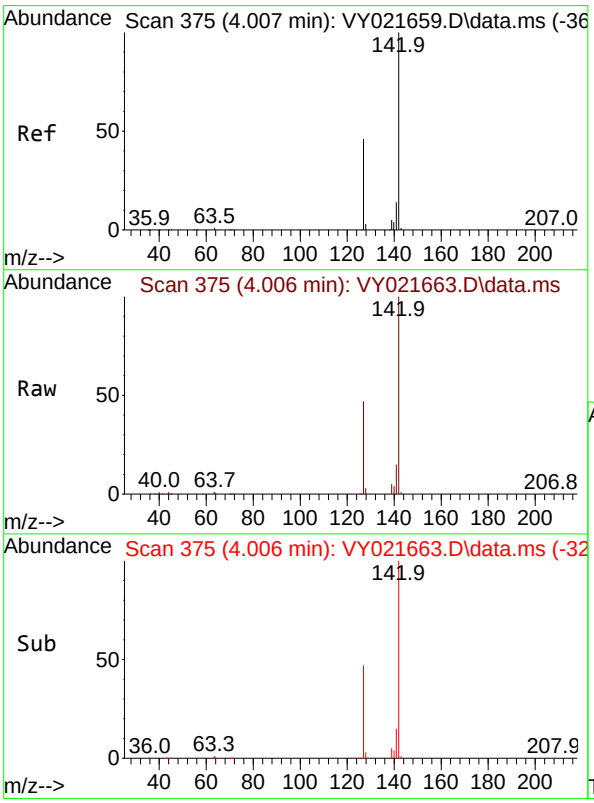
Ion	Ratio	Lower	Upper
101	100		
85	47.2	36.3	54.5
151	78.7	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

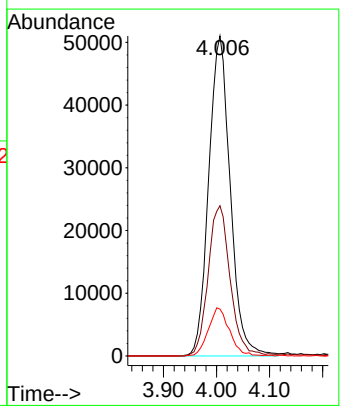
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

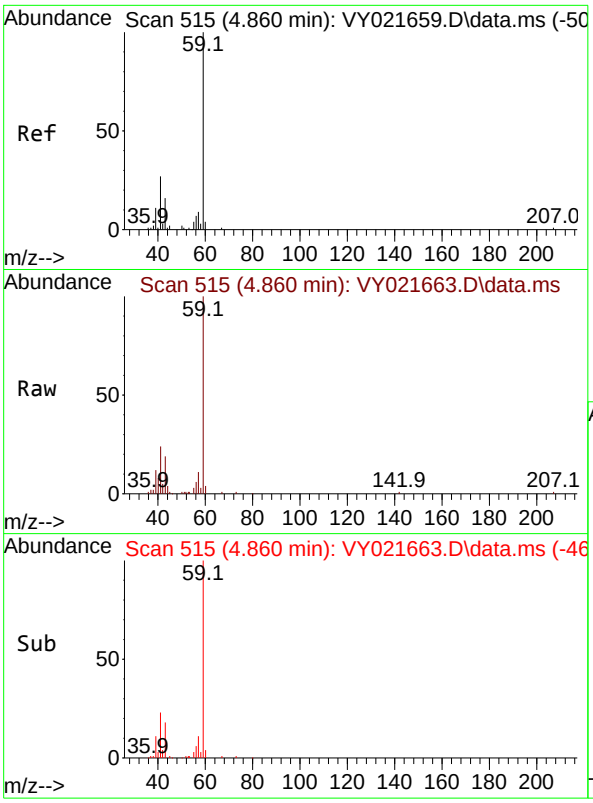


#10
Methyl Iodide
Concen: 48.859 ug/l
RT: 4.006 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:142 Resp: 144020

Ion	Ratio	Lower	Upper
142	100		
127	47.9	38.7	58.1
141	14.8	11.5	17.3

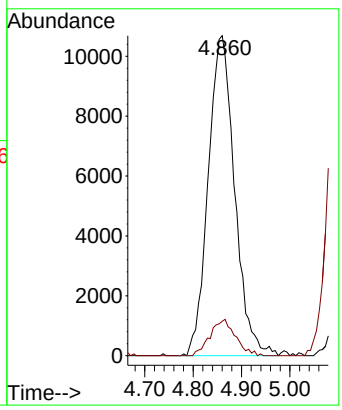




#11
Tert butyl alcohol
Concen: 239.093 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 59 Resp: 4059

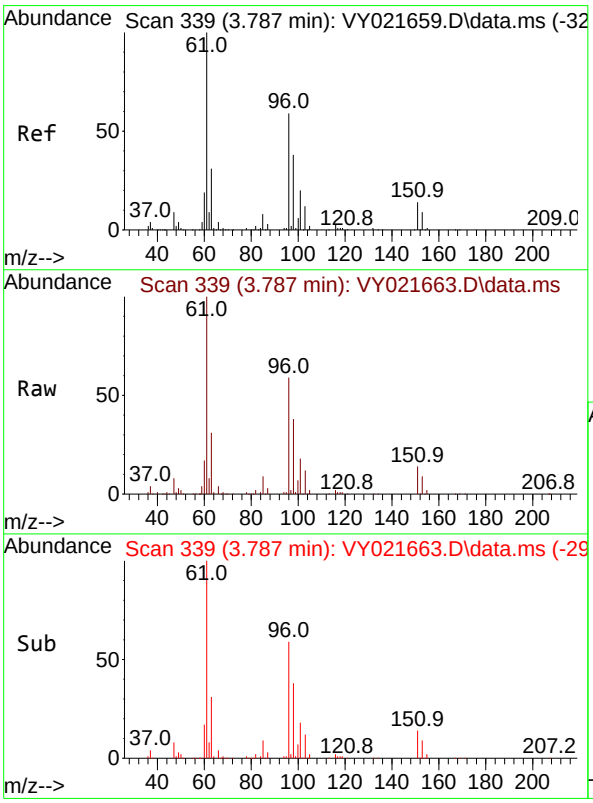
Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

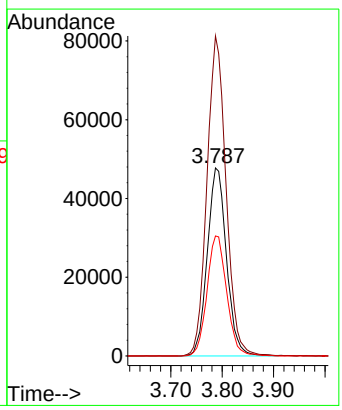
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

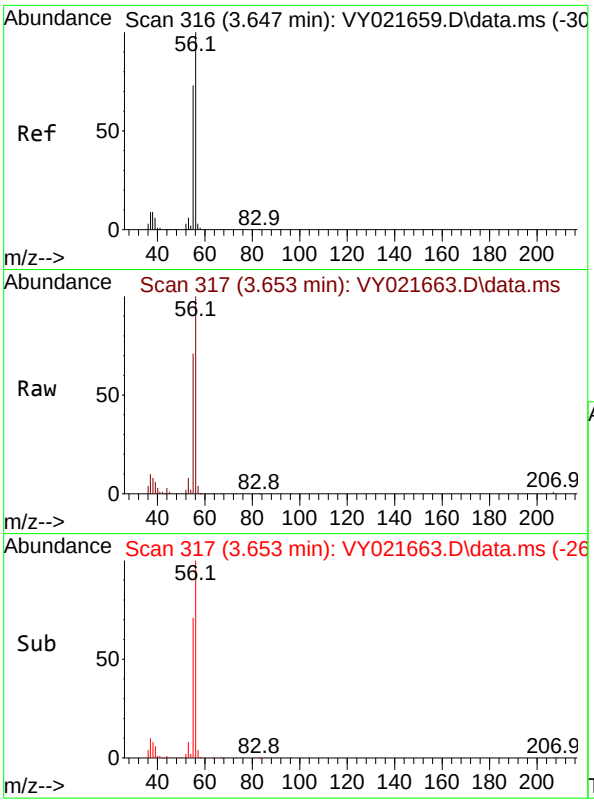


#12
1,1-Dichloroethene
Concen: 48.958 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 96 Resp: 123904

Ion	Ratio	Lower	Upper
96	100		
61	170.1	136.6	204.8
98	63.8	52.3	78.5

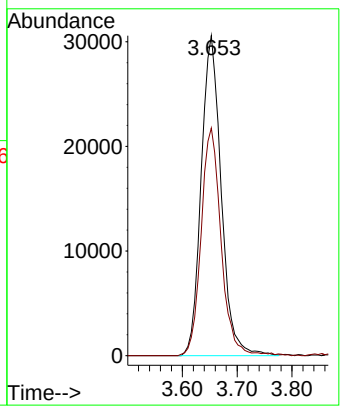




#13
Acrolein
Concen: 249.738 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 56 Resp: 7743

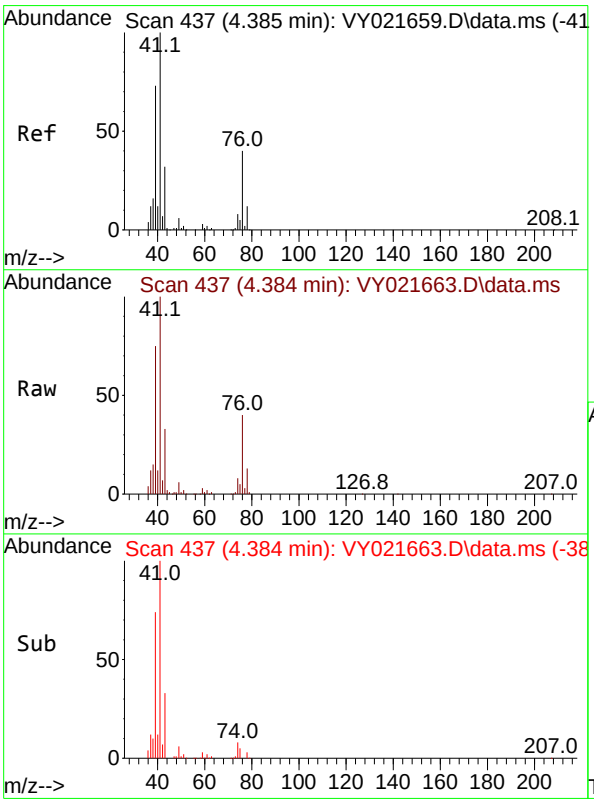
Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

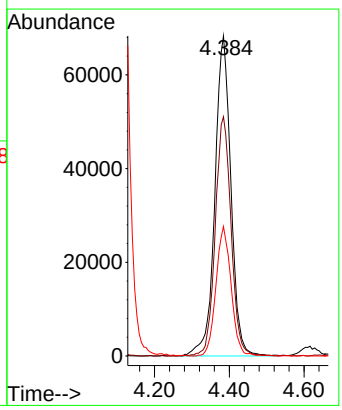
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

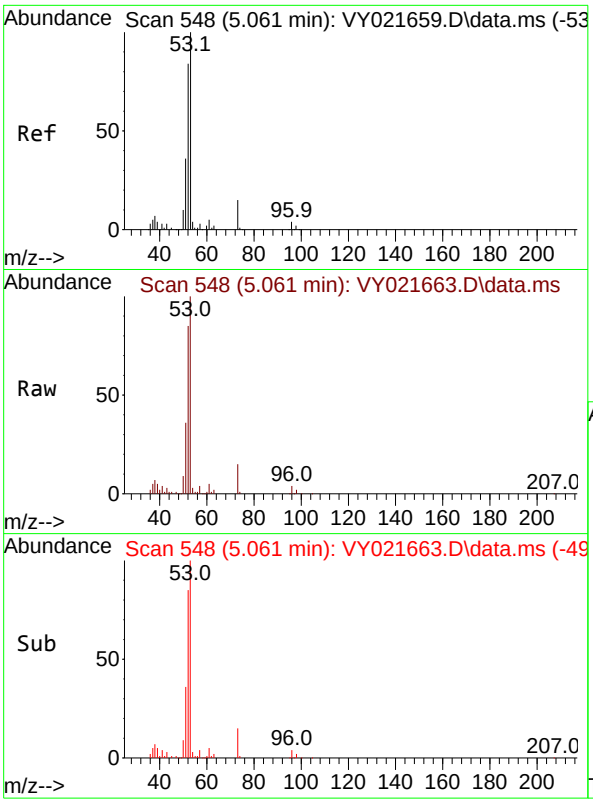


#14
Allyl chloride
Concen: 50.380 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 41 Resp: 203289

Ion	Ratio	Lower	Upper
41	100		
39	73.9	58.6	88.0
76	38.3	30.3	45.5

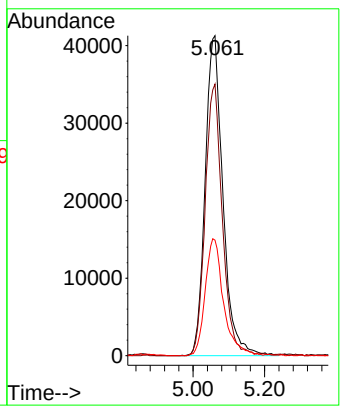




#15
Acrylonitrile
Concen: 246.085 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 53 Resp: 14234

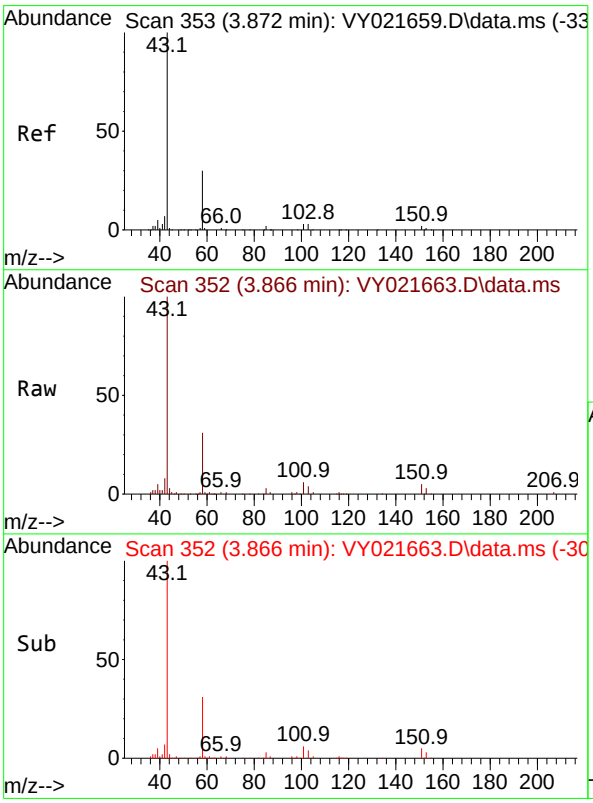
Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.9	97.3
51	37.9	30.2	45.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

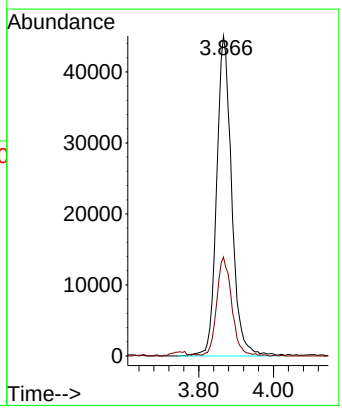
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

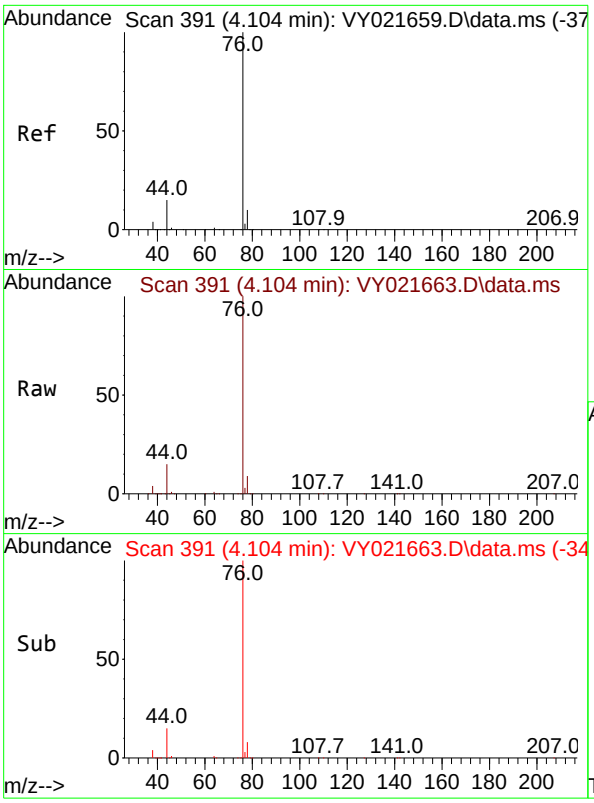


#16
Acetone
Concen: 234.856 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 43 Resp: 125654

Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.2	36.4

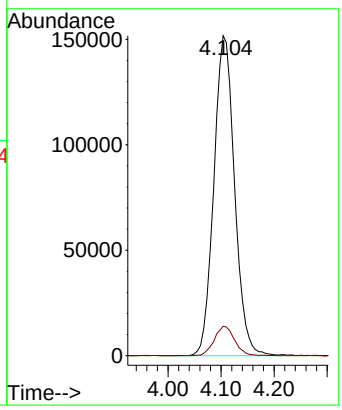




#17
Carbon Disulfide
Concen: 49.428 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 76 Resp: 41202

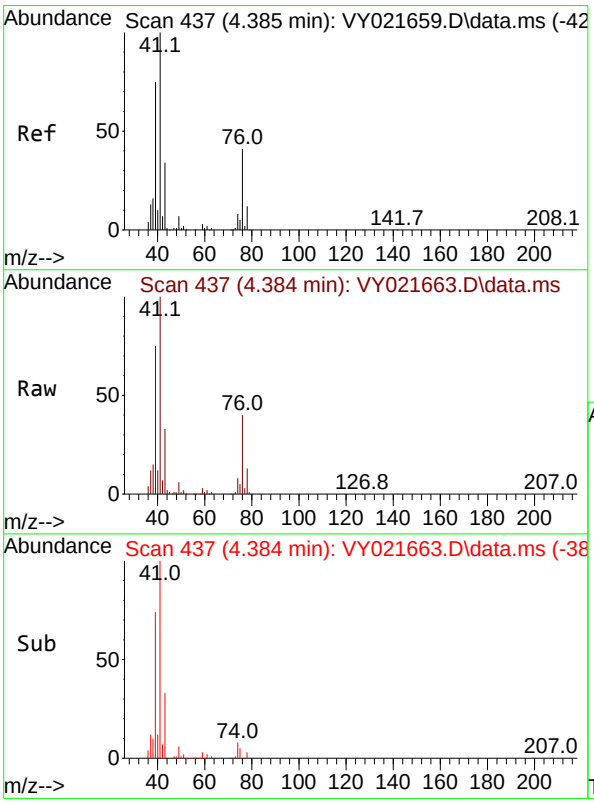
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

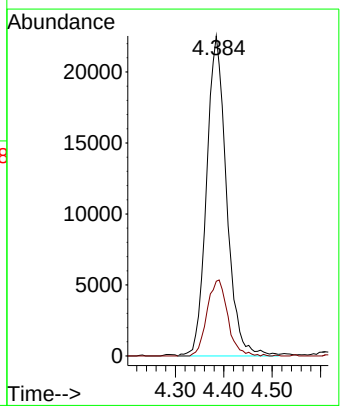
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

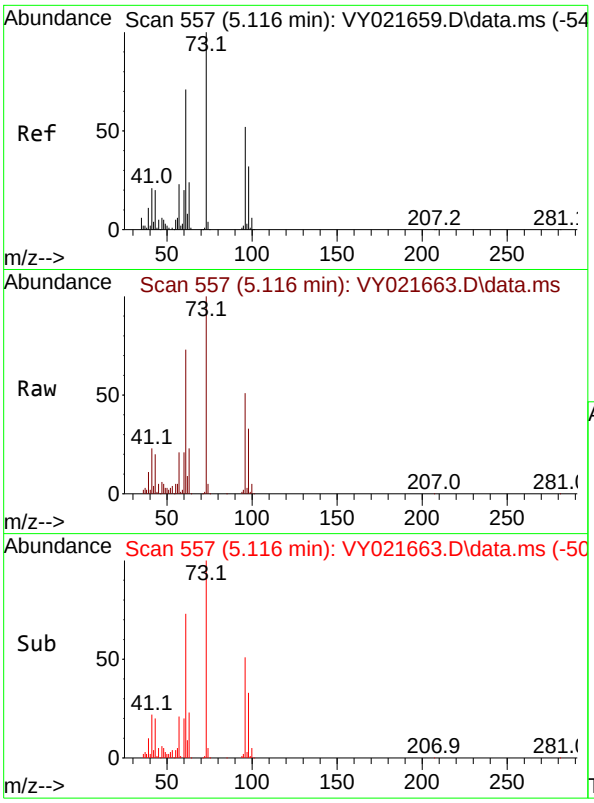


#18
Methyl Acetate
Concen: 48.703 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 43 Resp: 64580

Ion	Ratio	Lower	Upper
43	100		
74	24.5	19.1	28.7

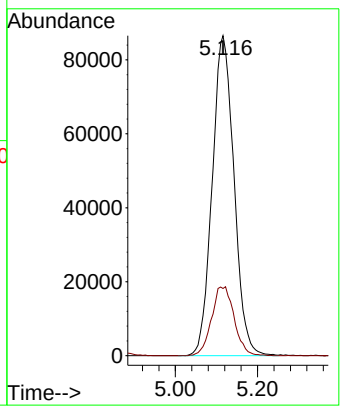




#19
Methyl tert-butyl Ether
Concen: 50.561 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 73 Resp: 31857

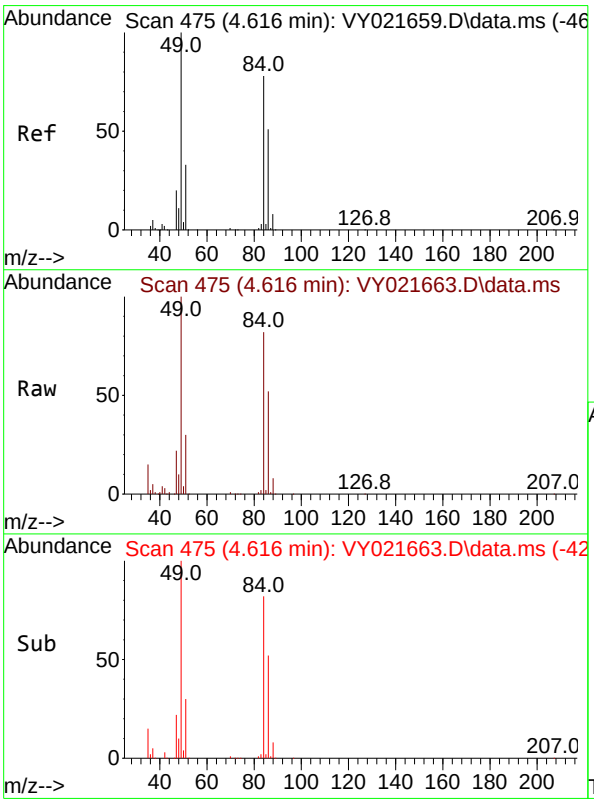
Ion	Ratio	Lower	Upper
73	100		
57	21.0	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

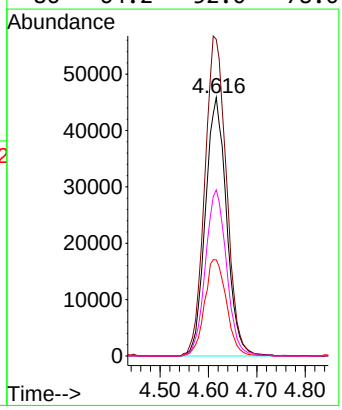
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

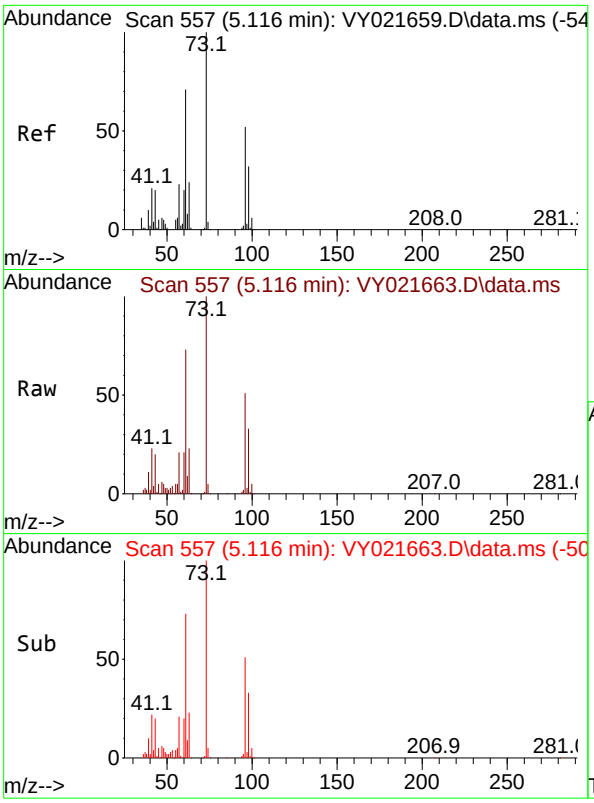


#20
Methylene Chloride
Concen: 53.536 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 84 Resp: 139443

Ion	Ratio	Lower	Upper
84	100		
49	122.3	102.8	154.2
51	37.2	33.5	50.3
86	64.2	52.0	78.0

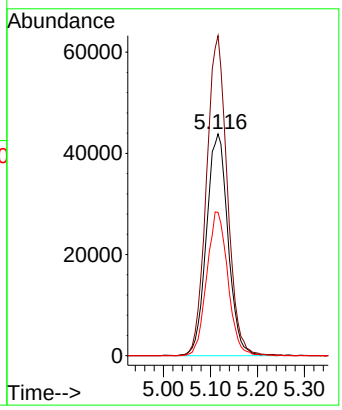




#21
trans-1,2-Dichloroethene
Concen: 50.186 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 96 Resp: 13984

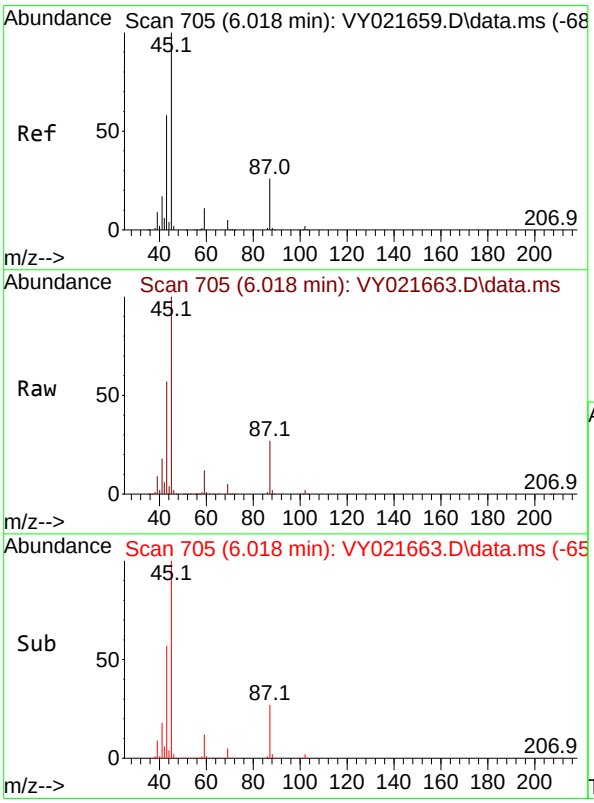
Ion	Ratio	Lower	Upper
96	100		
61	144.2	109.4	164.0
98	64.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

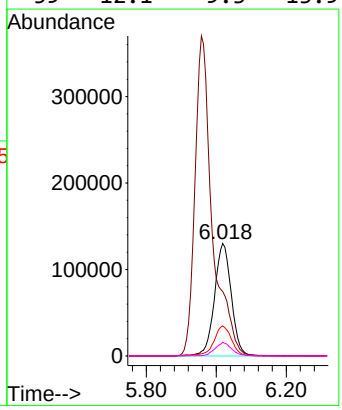
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

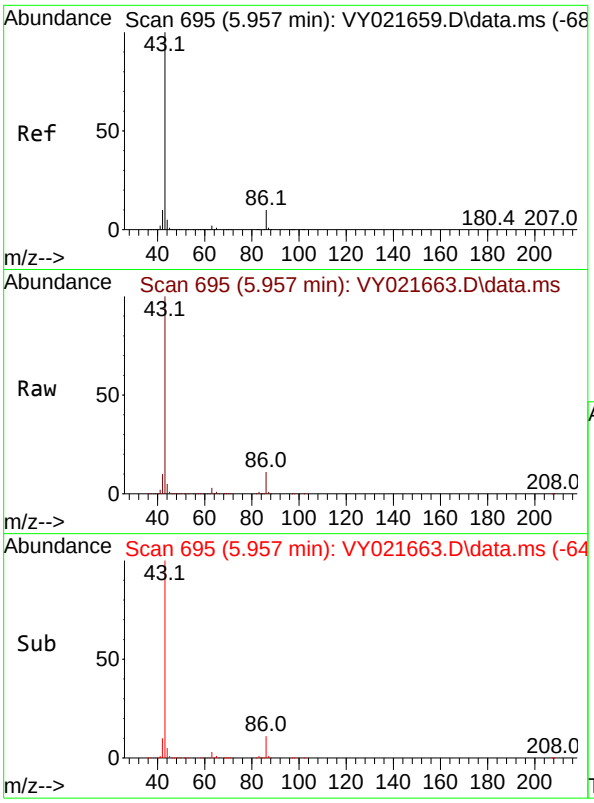


#22
Diisopropyl ether
Concen: 51.273 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 45 Resp: 434011

Ion	Ratio	Lower	Upper
45	100		
43	57.0	46.6	69.8
87	26.7	20.7	31.1
59	12.1	9.3	13.9





#23
Vinyl Acetate
Concen: 256.638 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

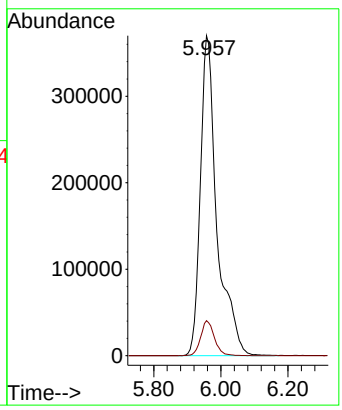
Tgt Ion: 43 Resp: 127084

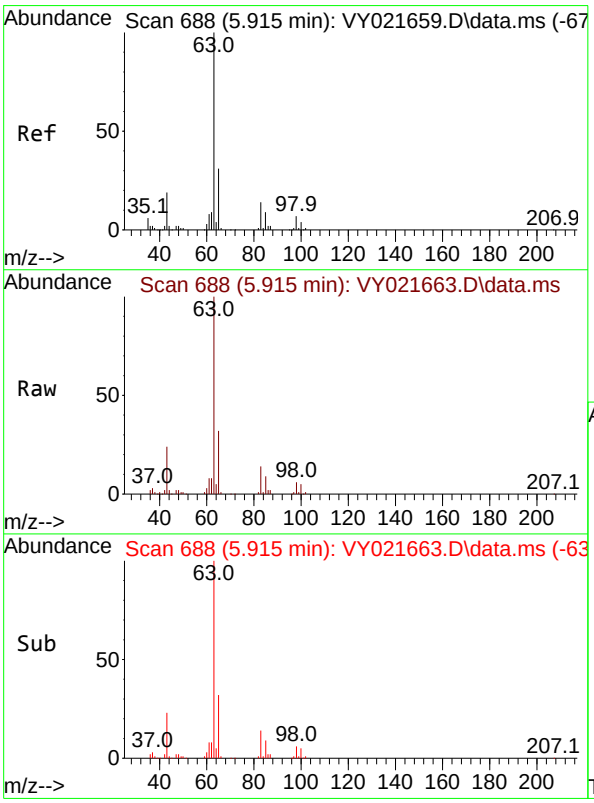
Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

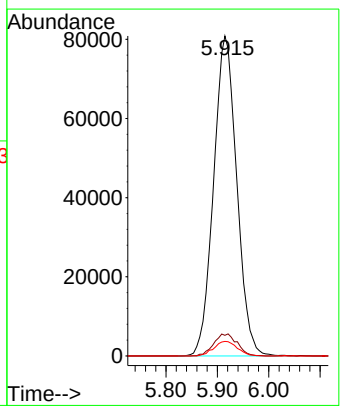


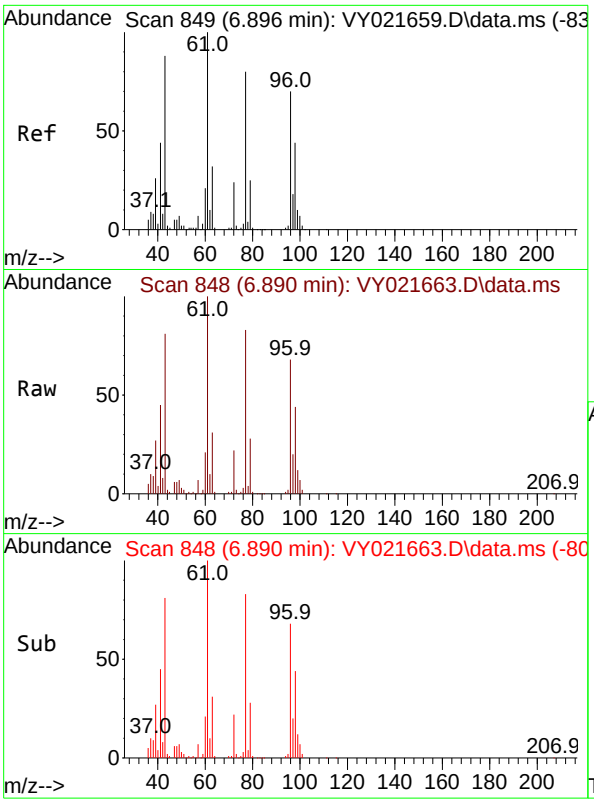


#24
1,1-Dichloroethane
Concen: 50.001 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 63 Resp: 253080

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.5	10.5
100	4.6	2.2	6.6

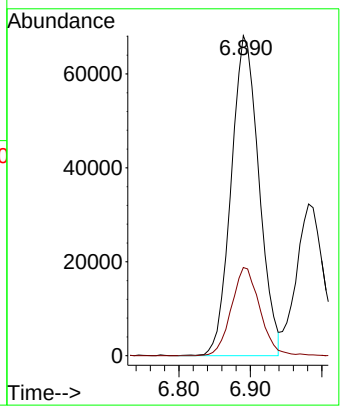




#25
2-Butanone
Concen: 240.921 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 43 Resp: 18410

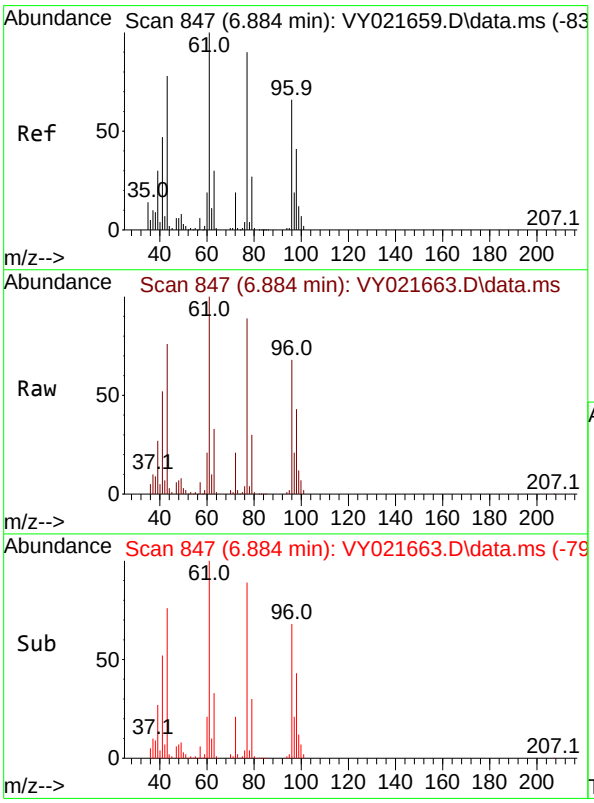
Ion	Ratio	Lower	Upper
43	100		
72	27.6	21.4	32.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

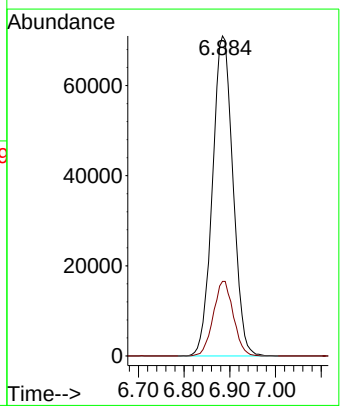
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

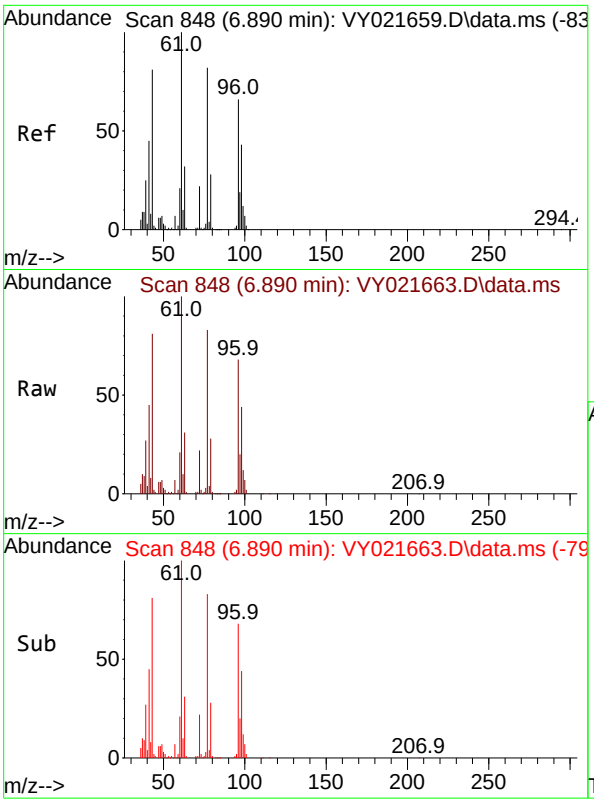


#26
2,2-Dichloropropane
Concen: 49.103 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 77 Resp: 221076

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.1	33.1

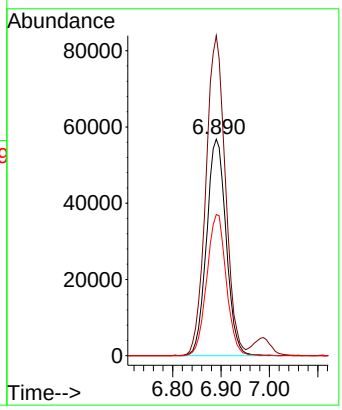




#27
cis-1,2-Dichloroethene
Concen: 50.806 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 96 Resp: 15920

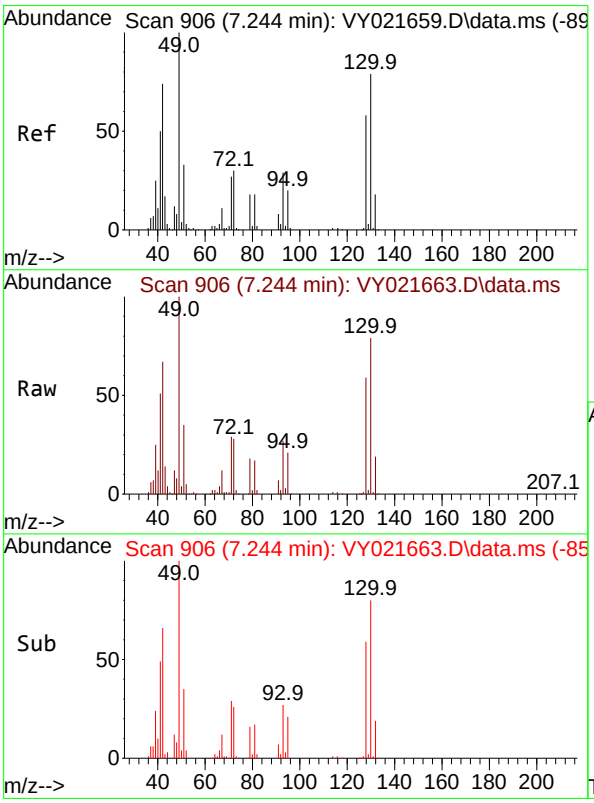
Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	296.4
98	65.0	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

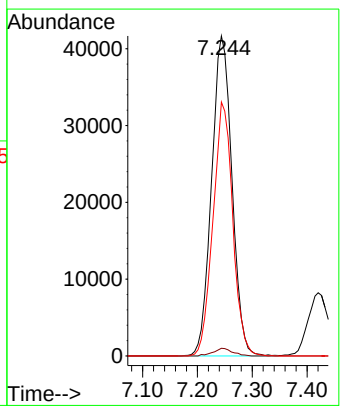
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

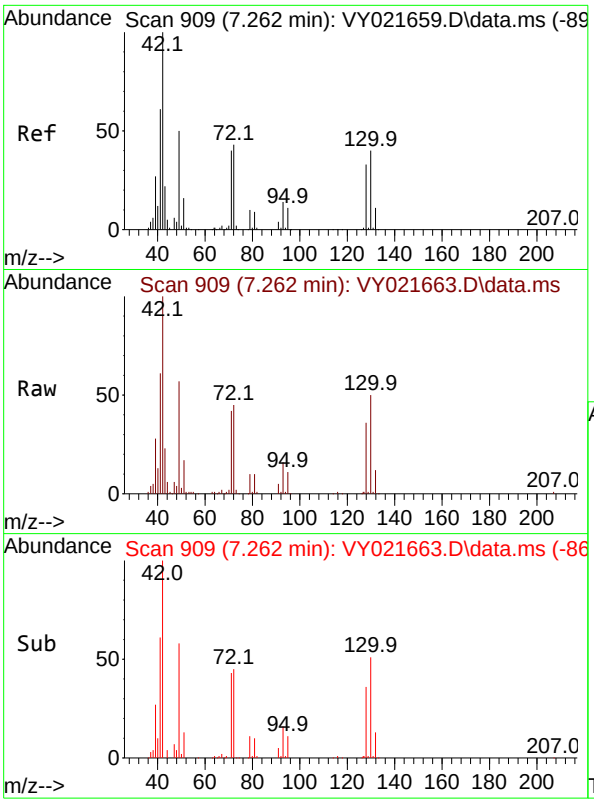


#28
Bromochloromethane
Concen: 50.360 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 49 Resp: 107500

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.4
130	76.8	60.1	90.1

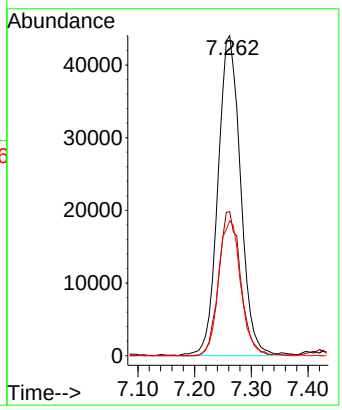




#29
Tetrahydrofuran
Concen: 247.271 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 42 Resp: 12161

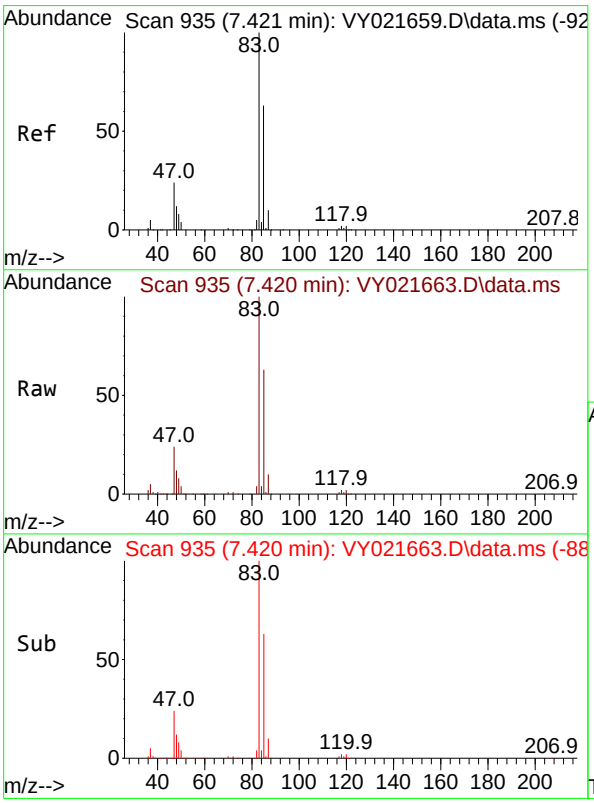
Ion	Ratio	Lower	Upper
42	100		
72	43.8	34.6	52.0
71	41.5	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

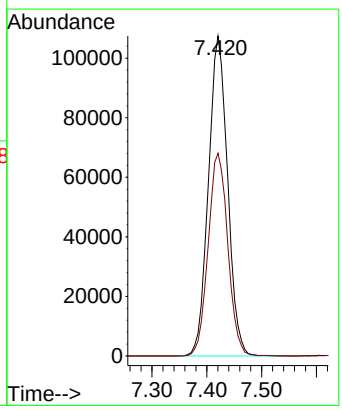
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

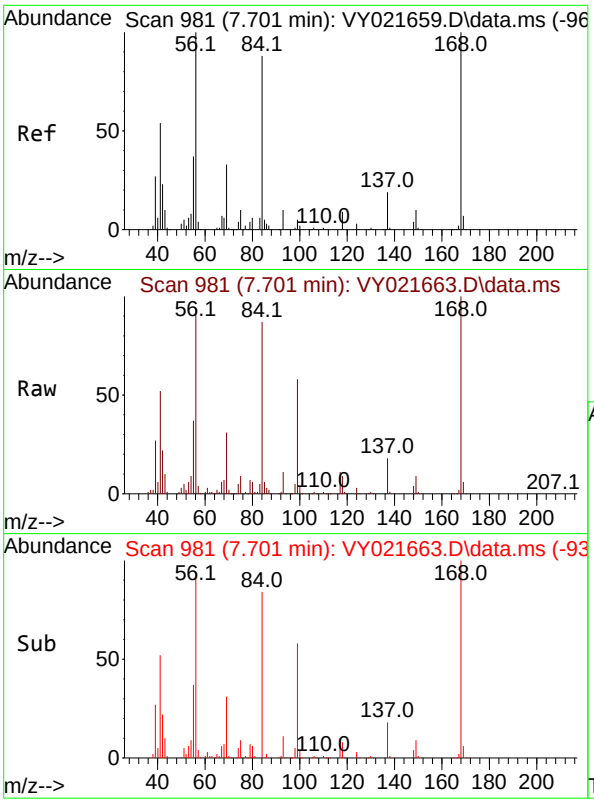


#30
Chloroform
Concen: 49.490 ug/l
RT: 7.420 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 83 Resp: 260540

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.6	75.8

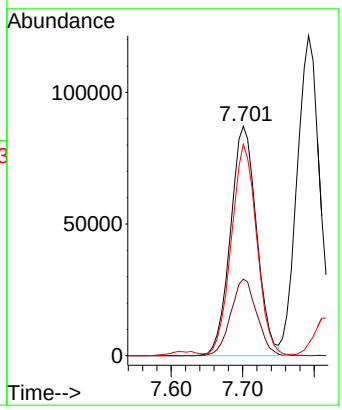




#31
Cyclohexane
Concen: 47.844 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 56 Resp: 22074

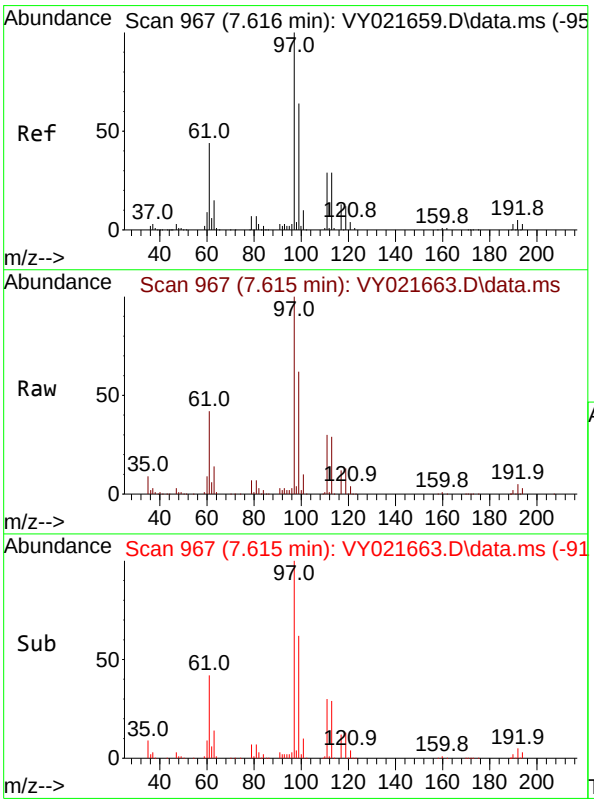
Ion	Ratio	Lower	Upper
56	100		
69	33.3	26.6	40.0
84	90.4	69.0	103.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

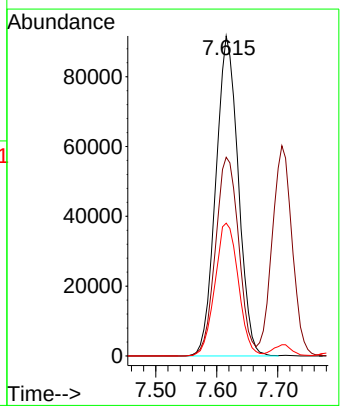
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

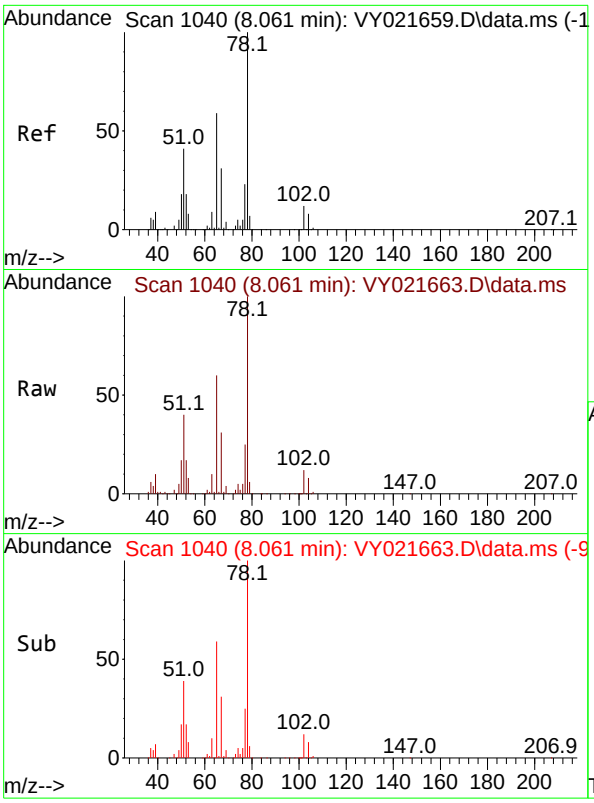


#32
1,1,1-Trichloroethane
Concen: 49.319 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 97 Resp: 234663

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.7	76.1
61	43.4	35.2	52.8

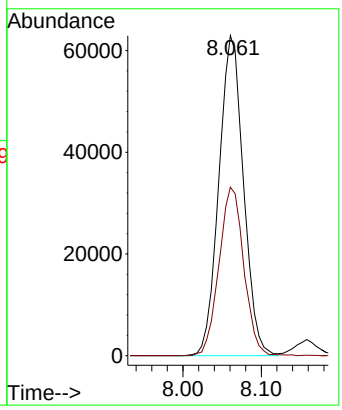




#33
1,2-Dichloroethane-d4
Concen: 52.553 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 65 Resp: 13738

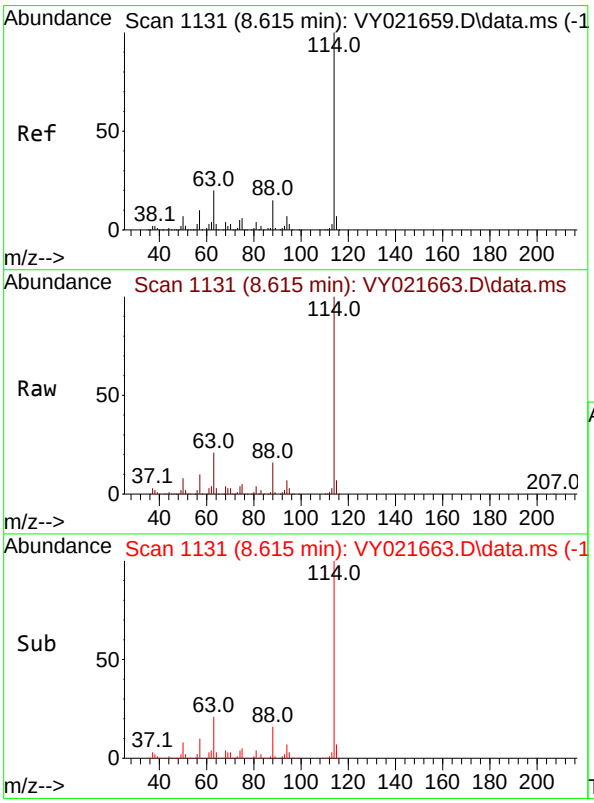
Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

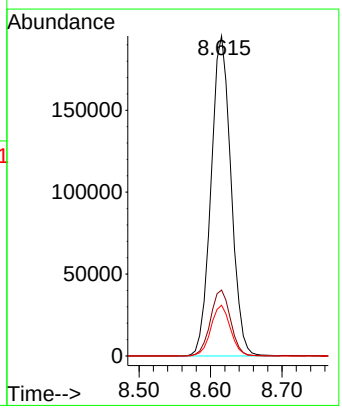
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

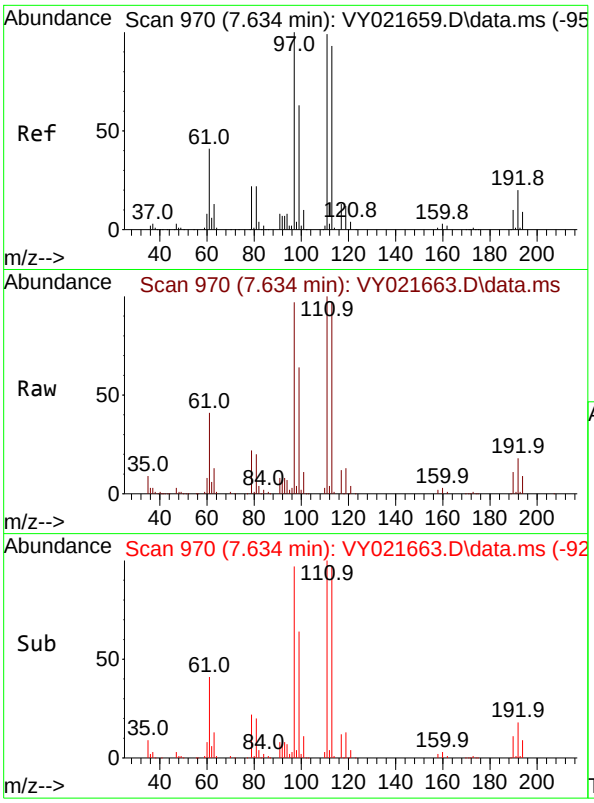


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:114 Resp: 378246

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.2
88	15.9	0.0	29.8

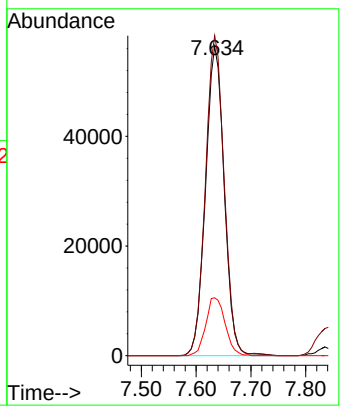




#35
Dibromofluoromethane
Concen: 54.243 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:113 Resp: 13309

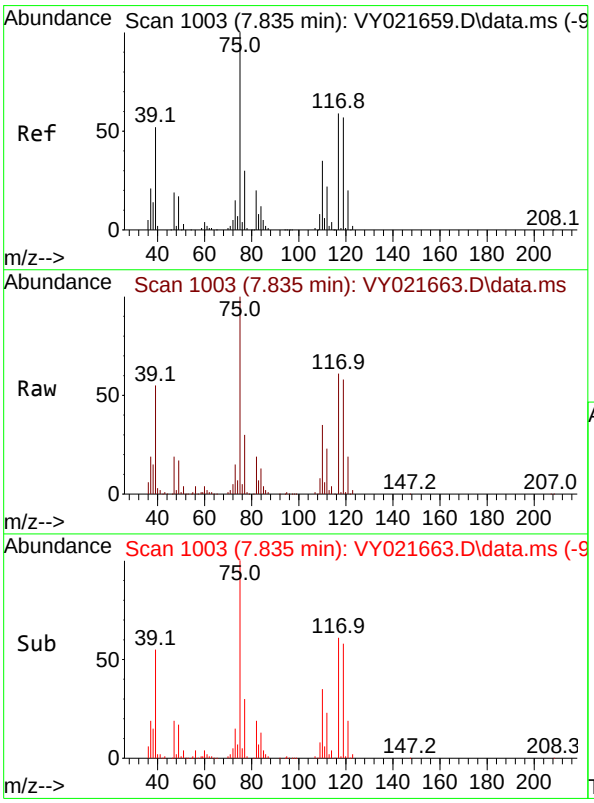
Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	123.8
192	19.5	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

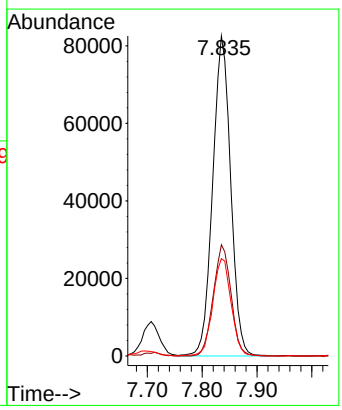
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

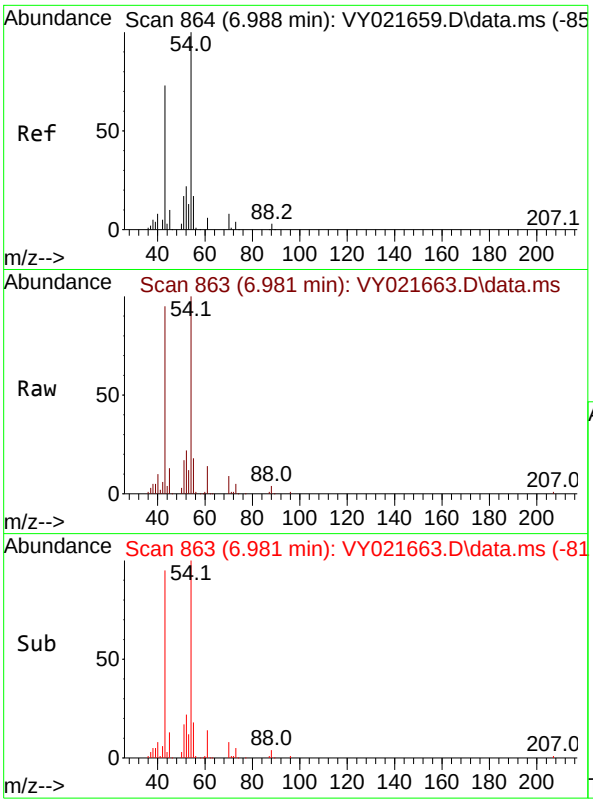


#36
1,1-Dichloropropene
Concen: 50.326 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 75 Resp: 188082

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.0	50.9
77	31.1	24.8	37.2





#37
Ethyl Acetate
Concen: 49.145 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

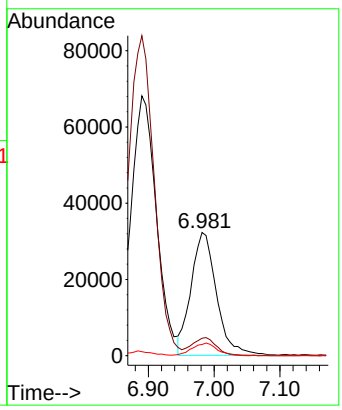
Tgt Ion: 43 Resp: 8668

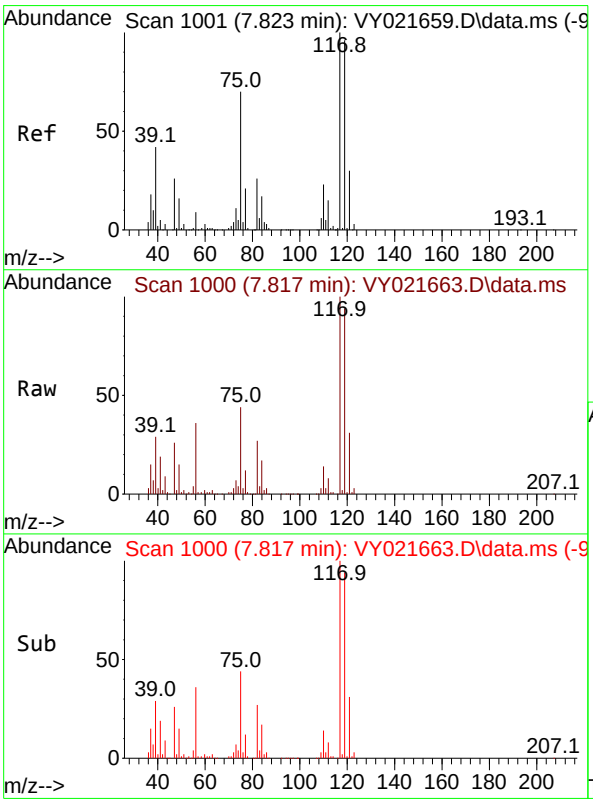
Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.0	16.6
70	10.1	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

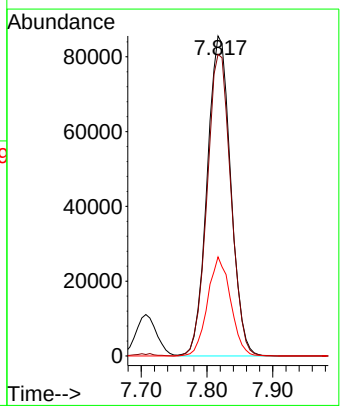


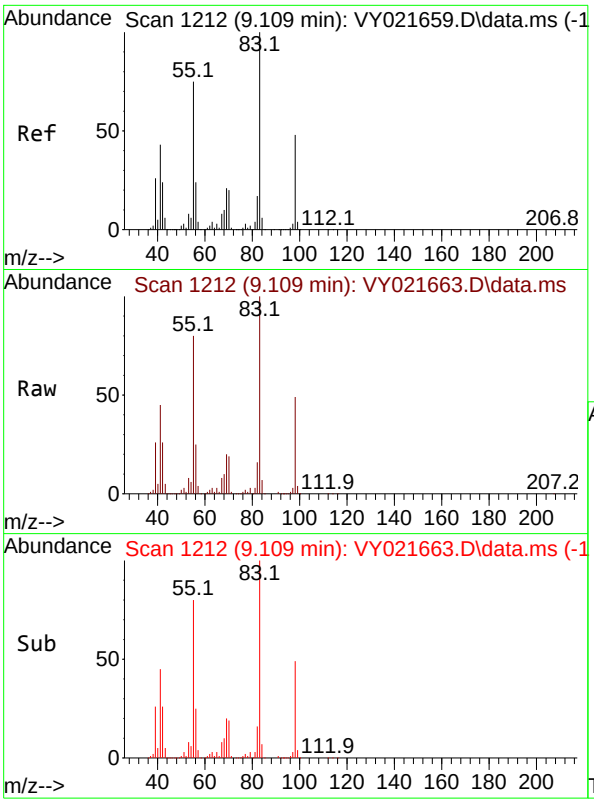


#38
Carbon Tetrachloride
Concen: 49.814 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:117 Resp: 213223

Ion	Ratio	Lower	Upper
117	100		
119	94.3	76.2	114.4
121	30.9	24.2	36.4





#39
Methylcyclohexane
Concen: 51.843 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

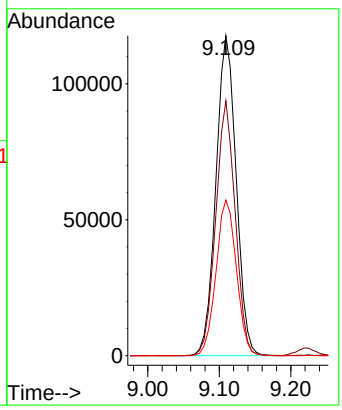
Tgt Ion: 83 Resp: 23145

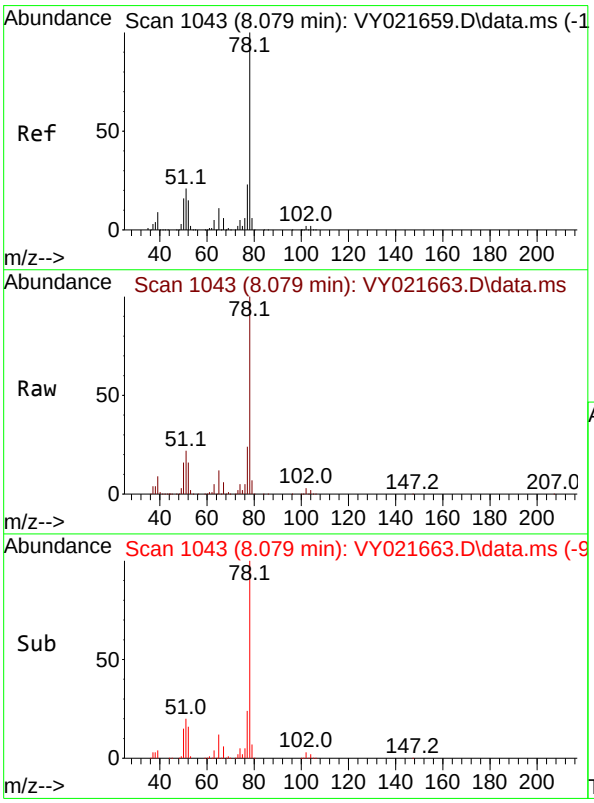
Ion	Ratio	Lower	Upper
83	100		
55	79.6	59.7	89.5
98	48.7	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

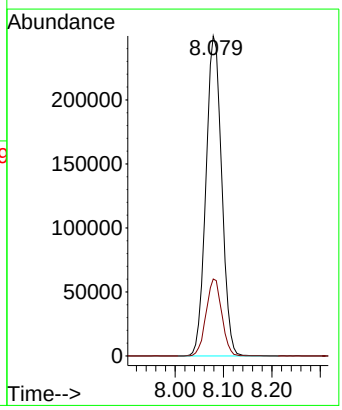


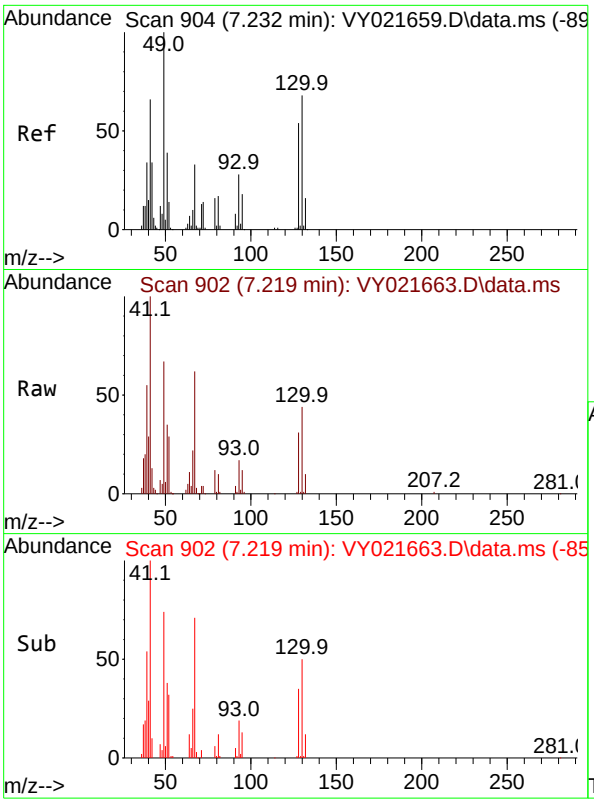


#40
Benzene
Concen: 50.574 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 78 Resp: 566027

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

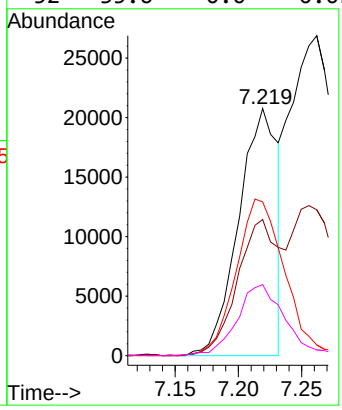




#41
Methacrylonitrile
Concen: 47.475 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 41 Resp: 4446

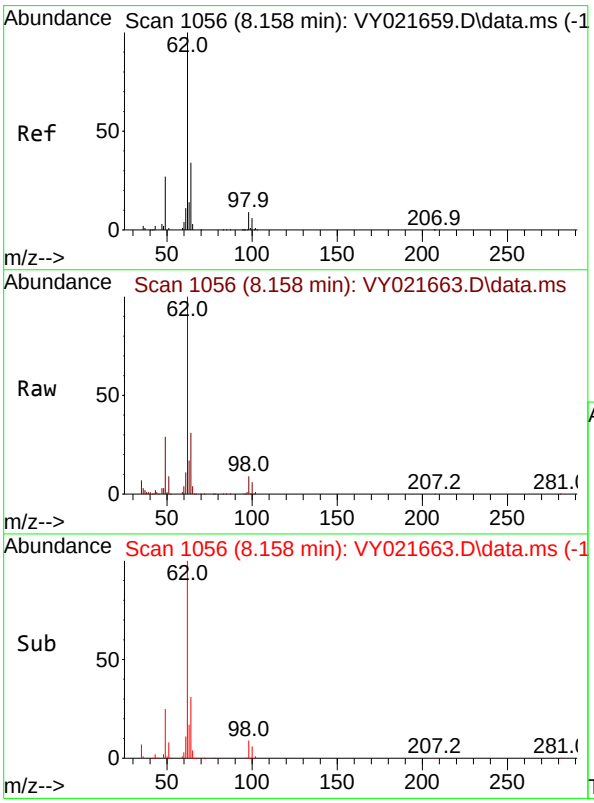
Ion	Ratio	Lower	Upper
41	100		
39	62.6	0.0	0.0#
67	79.2	0.0	0.0#
52	35.6	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

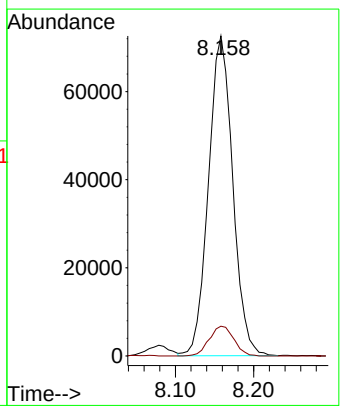
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

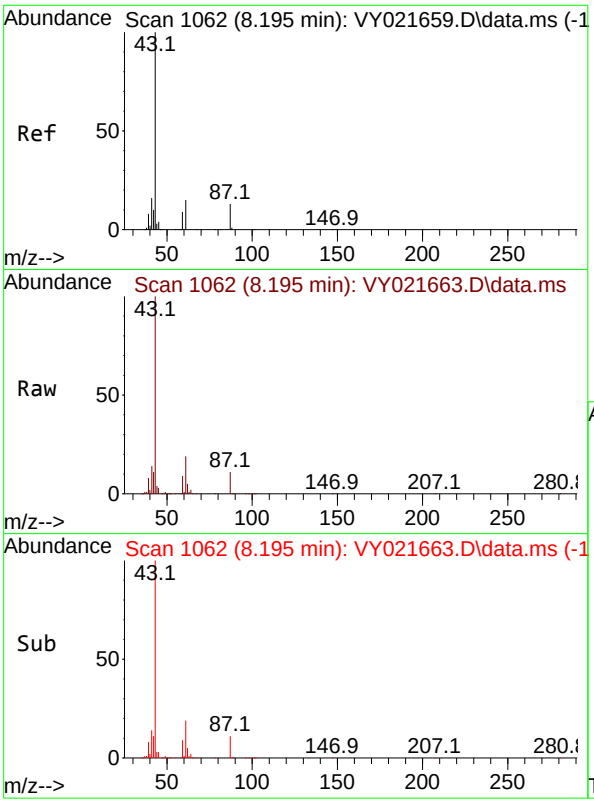


#42
1,2-Dichloroethane
Concen: 49.556 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 62 Resp: 156359

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.4

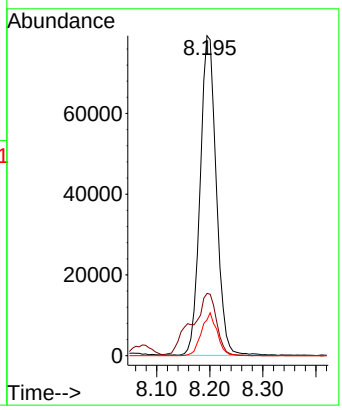




#43
Isopropyl Acetate
Concen: 50.106 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 43 Resp: 16747

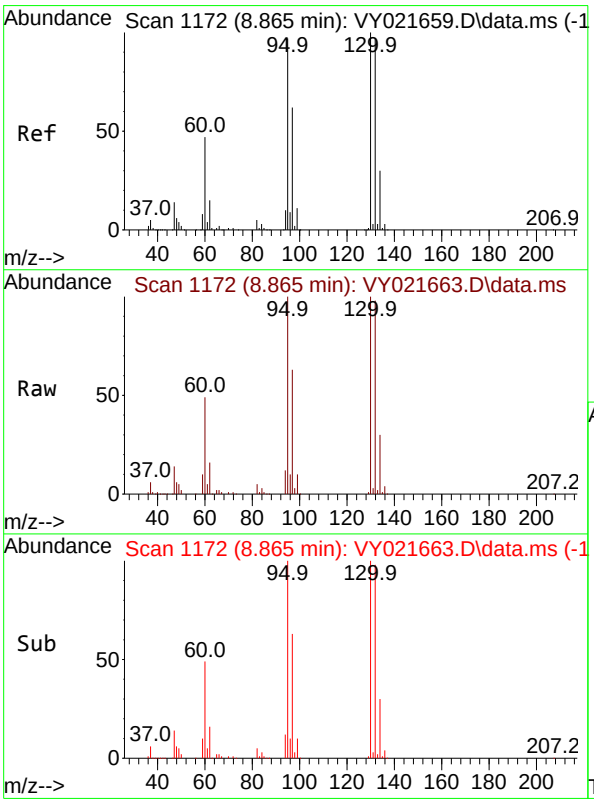
Ion	Ratio	Lower	Upper
43	100		
61	30.0	15.9	23.9#
87	13.0	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

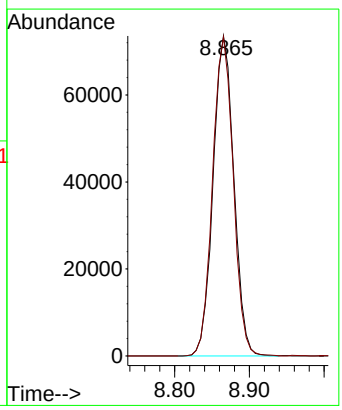
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

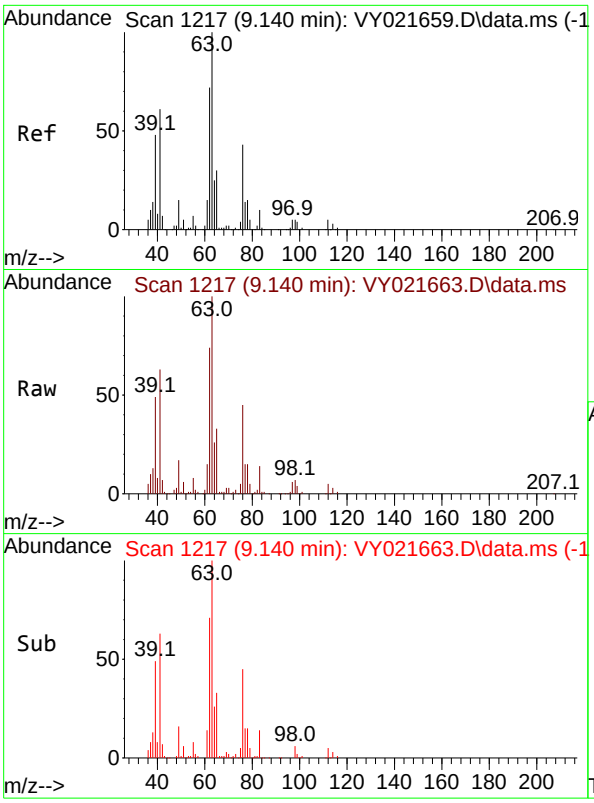


#44
Trichloroethene
Concen: 49.933 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:130 Resp: 142392

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	194.8

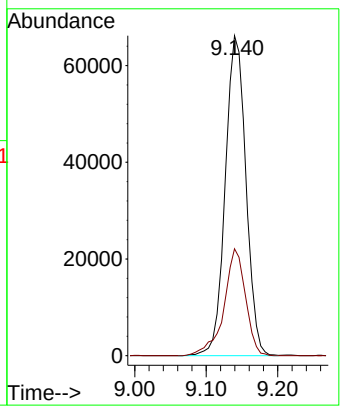




#45
1,2-Dichloropropane
Concen: 50.158 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 63 Resp: 13288

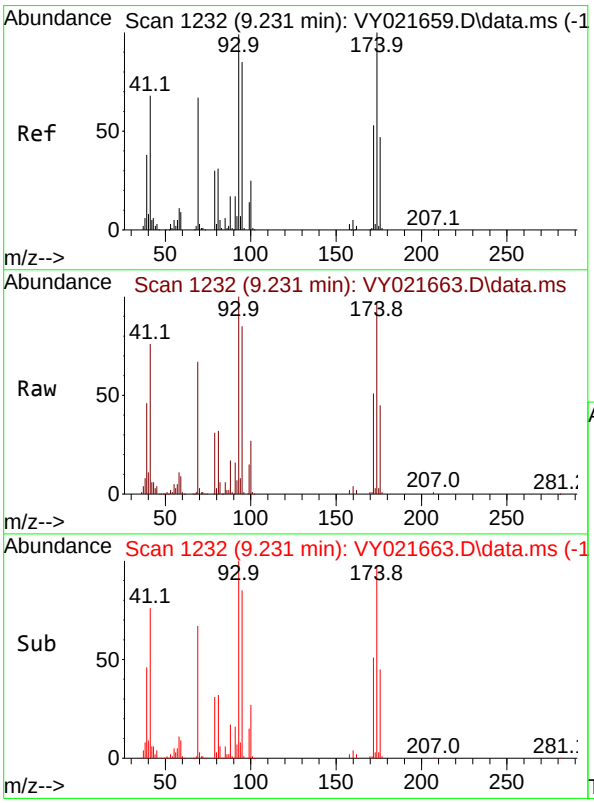
Ion	Ratio	Lower	Upper
63	100		
65	33.4	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

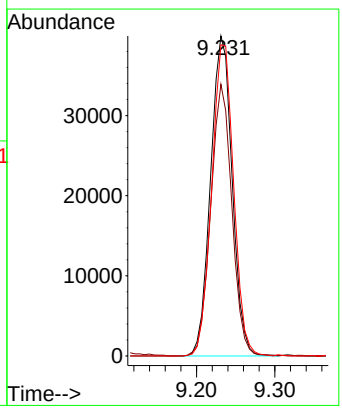
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

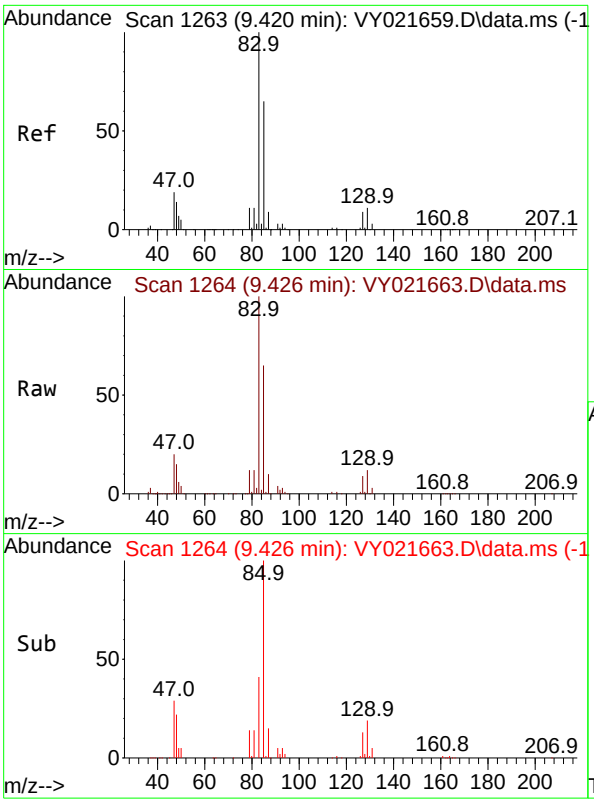


#46
Dibromomethane
Concen: 50.052 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 93 Resp: 76421

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.1	102.1
174	99.0	80.9	121.3

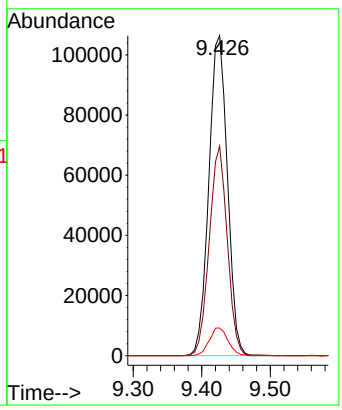




#47
Bromodichloromethane
Concen: 50.530 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 83 Resp: 19991

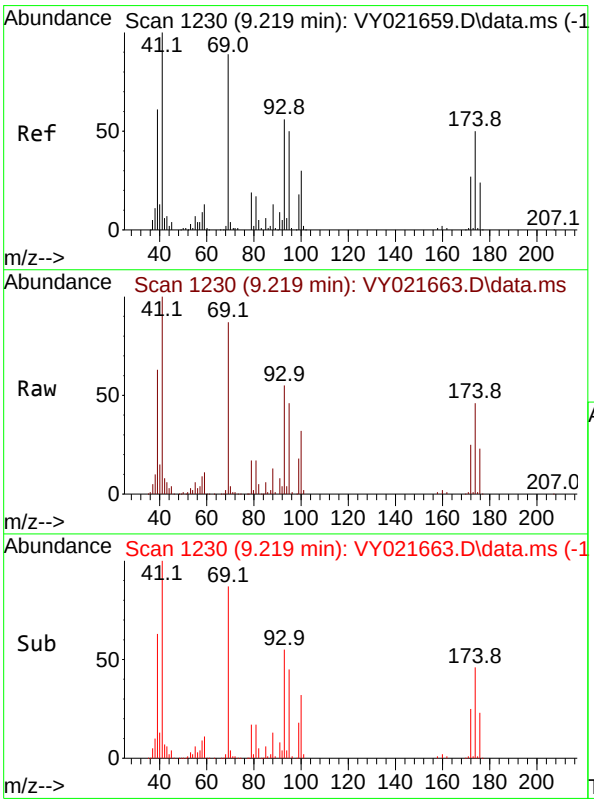
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6
127	8.7	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

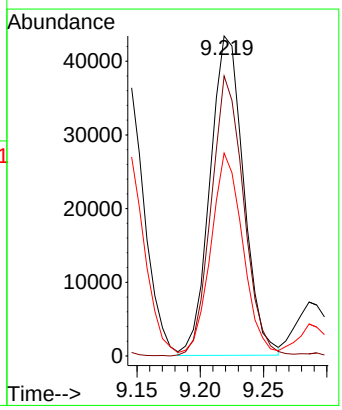
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

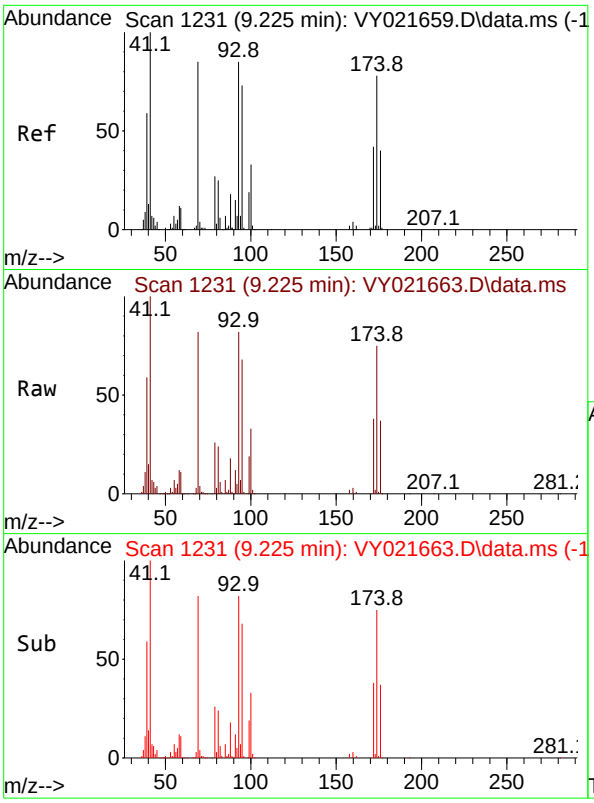


#48
Methyl methacrylate
Concen: 52.076 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 41 Resp: 79887

Ion	Ratio	Lower	Upper
41	100		
69	84.8	69.8	104.8
39	58.6	47.2	70.8

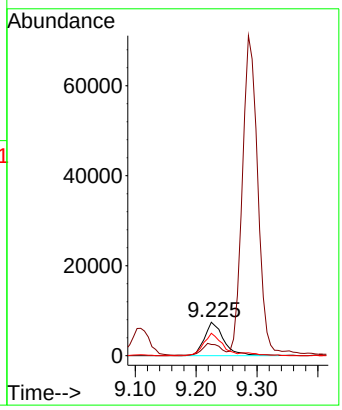




#49
1,4-Dioxane
Concen: 1006.593 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 88 Resp: 1646

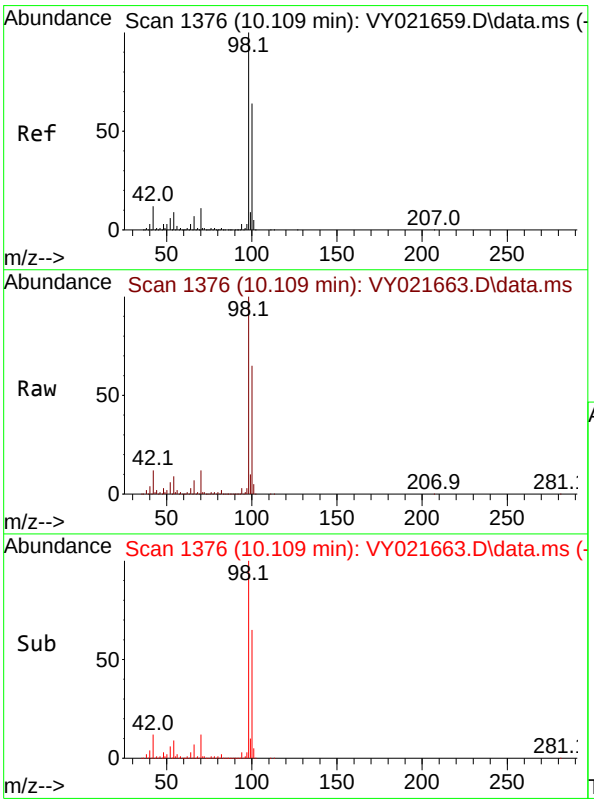
Ion	Ratio	Lower	Upper
88	100		
43	32.8	28.8	43.2
58	63.4	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

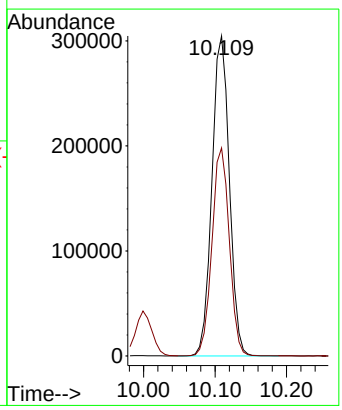
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

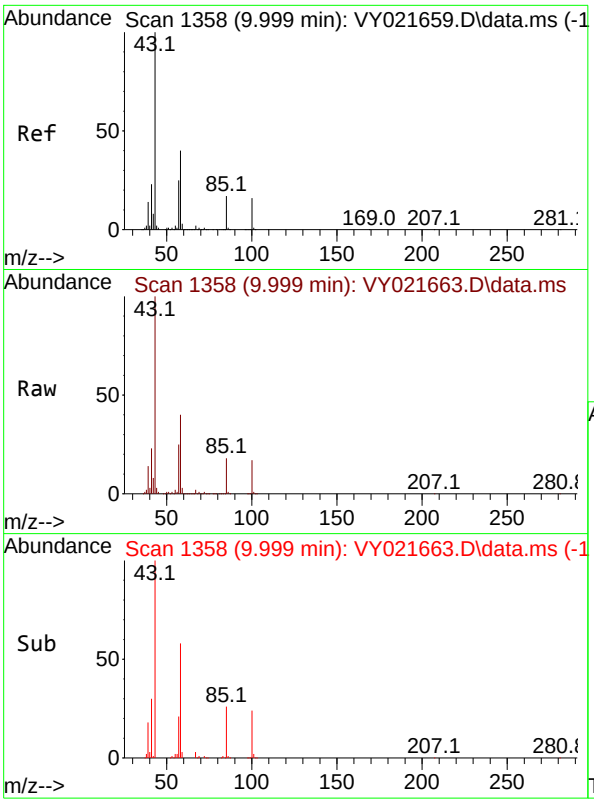


#50
Toluene-d8
Concen: 55.117 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 98 Resp: 514482

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.1	78.1

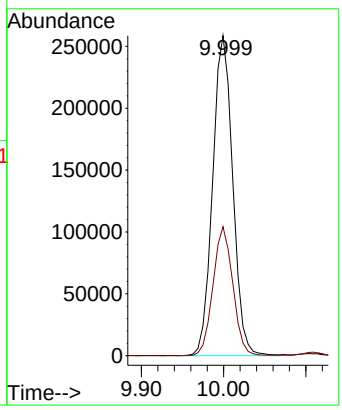




#51
4-Methyl-2-Pentanone
Concen: 252.890 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 43 Resp: 43987

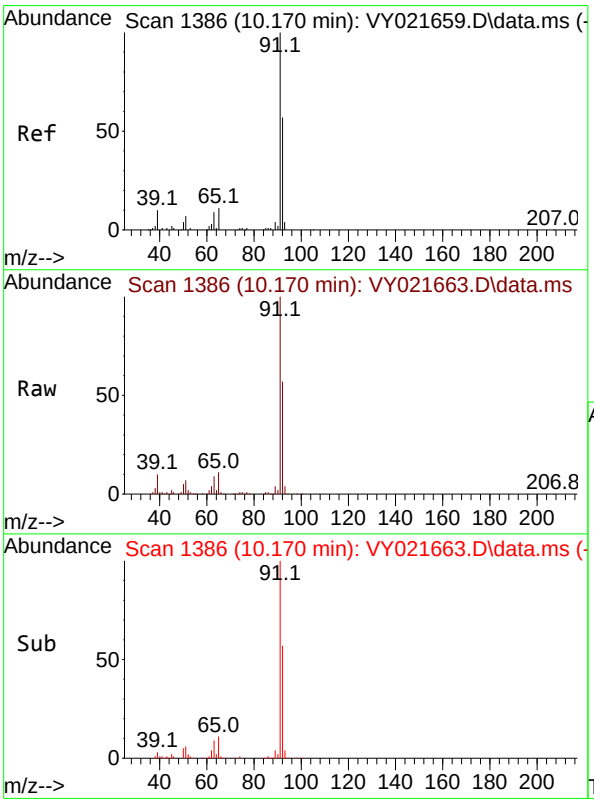
Ion	Ratio	Lower	Upper
43	100		
58	39.7	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

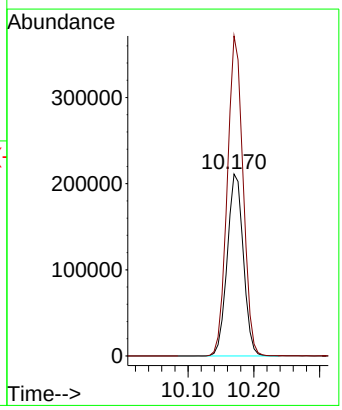
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

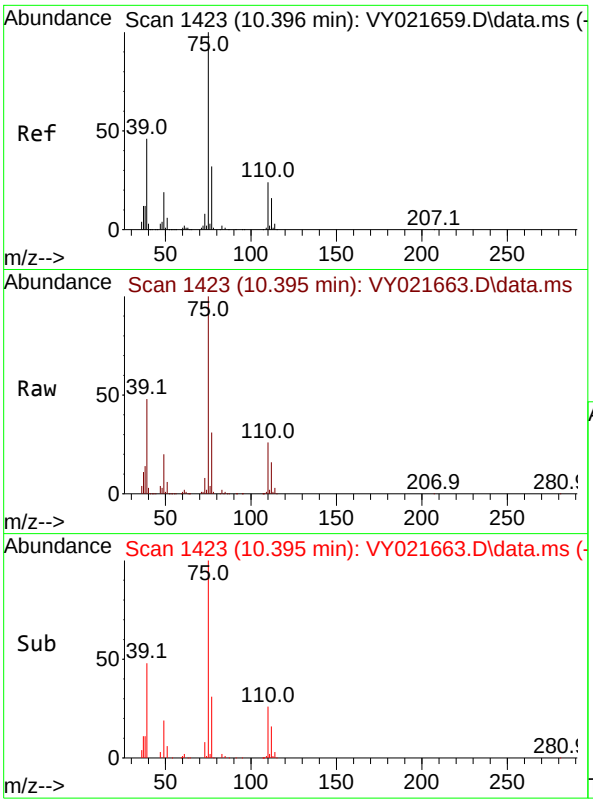


#52
Toluene
Concen: 51.555 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 92 Resp: 360002

Ion	Ratio	Lower	Upper
92	100		
91	172.2	138.6	207.8

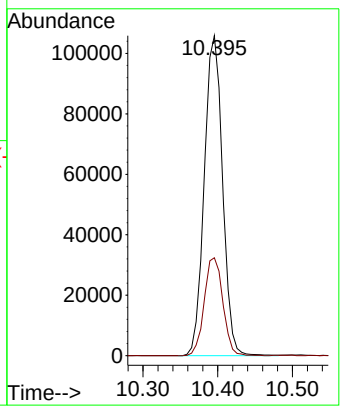




#53
t-1,3-Dichloropropene
Concen: 51.152 ug/l
RT: 10.395 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 75 Resp: 17975

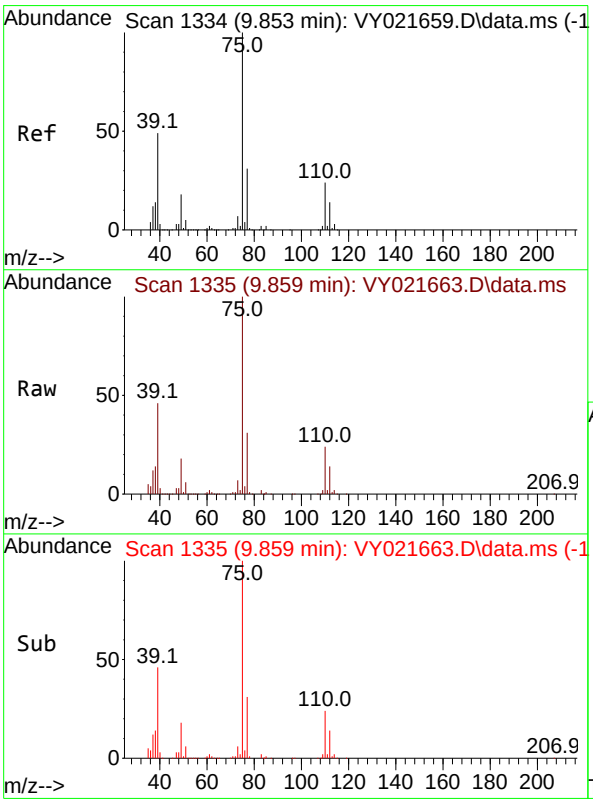
Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

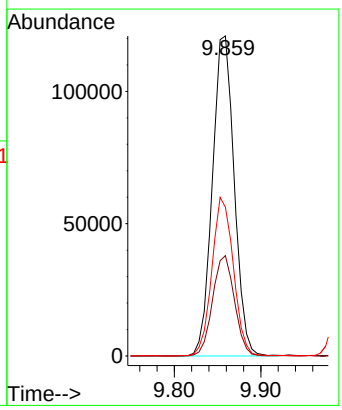
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

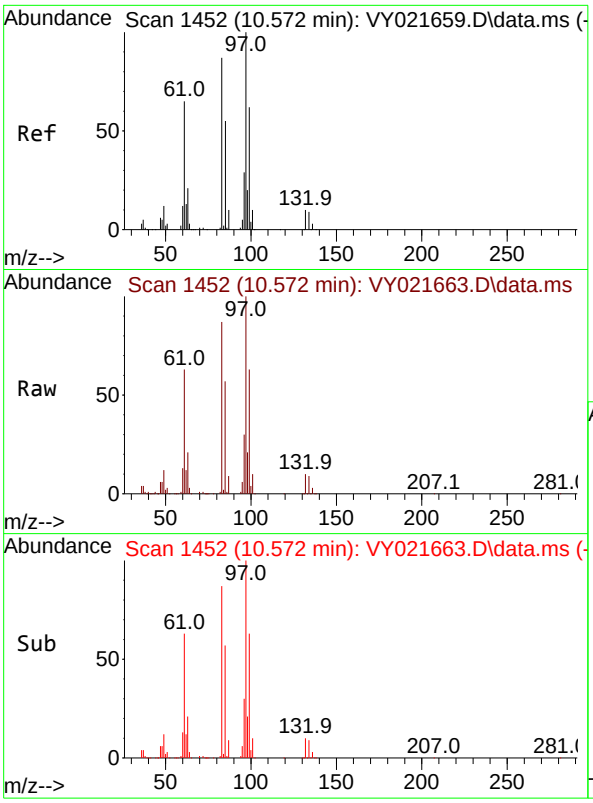


#54
cis-1,3-Dichloropropene
Concen: 51.154 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 75 Resp: 212066

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.9	37.3
39	46.4	39.2	58.8

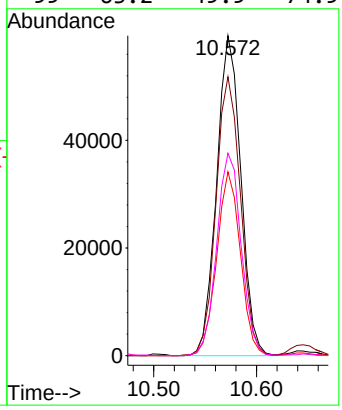




#55
1,1,2-Trichloroethane
Concen: 49.656 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 97 Resp: 9756

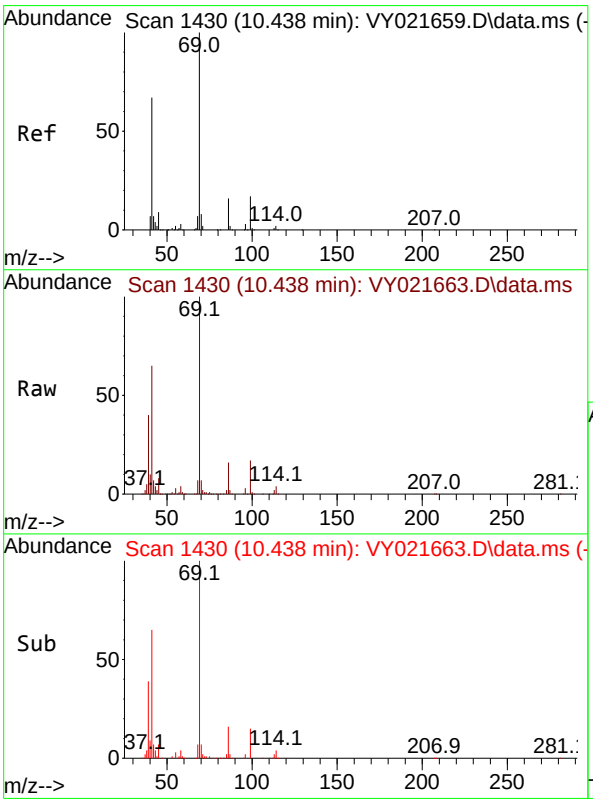
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.5	104.3
85	57.4	43.9	65.9
99	63.2	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

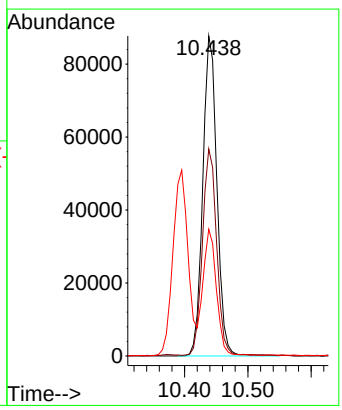
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

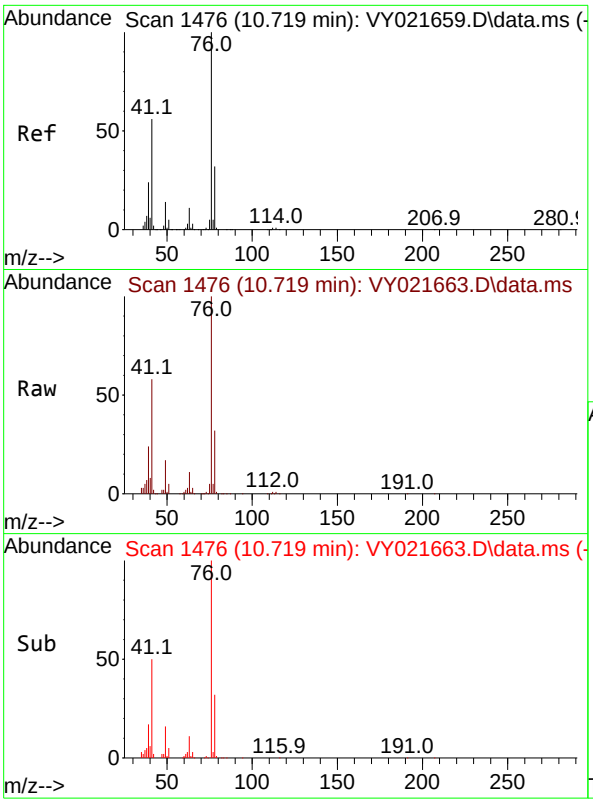


#56
Ethyl methacrylate
Concen: 54.371 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 69 Resp: 136411

Ion	Ratio	Lower	Upper
69	100		
41	64.4	53.8	80.6
39	37.0	29.6	44.4

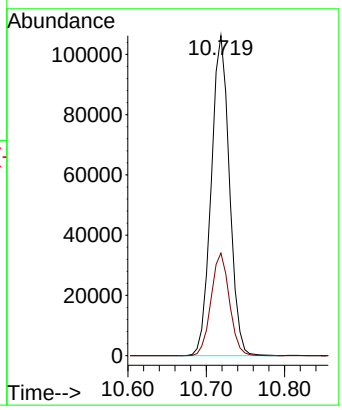




#57
1,3-Dichloropropane
Concen: 50.563 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 76 Resp: 17157

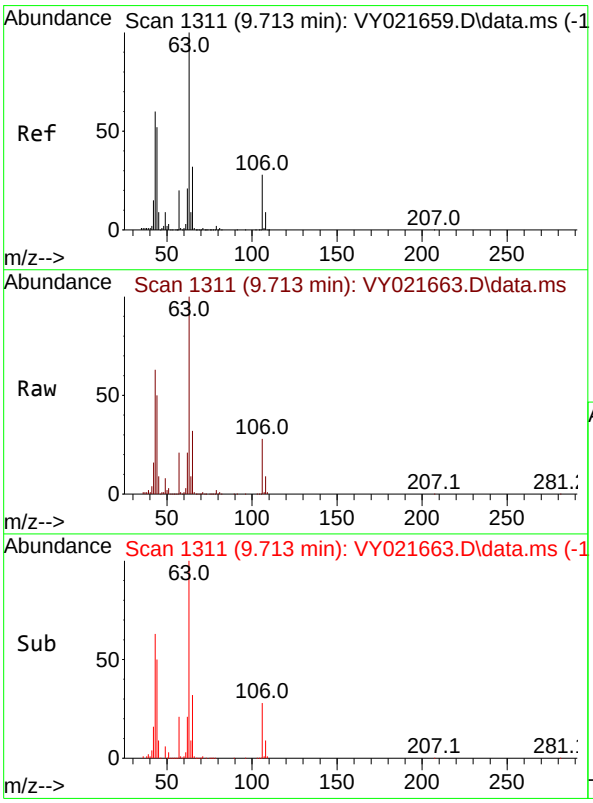
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

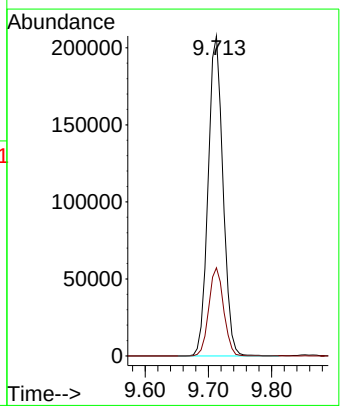
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

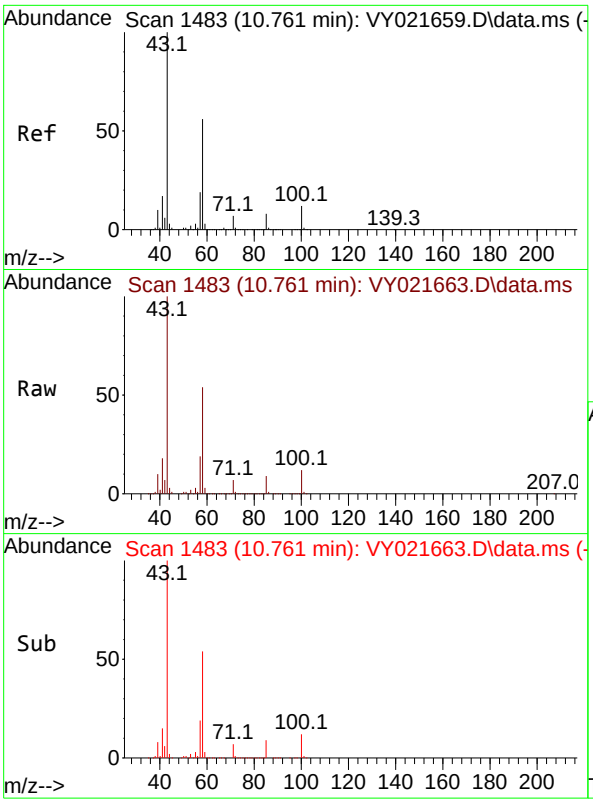


#58
2-Chloroethyl Vinyl ether
Concen: 276.714 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 63 Resp: 338673

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.4	33.6





#59
2-Hexanone
Concen: 255.065 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

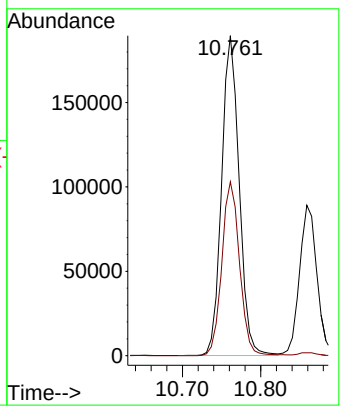
Tgt Ion: 43 Resp: 29547

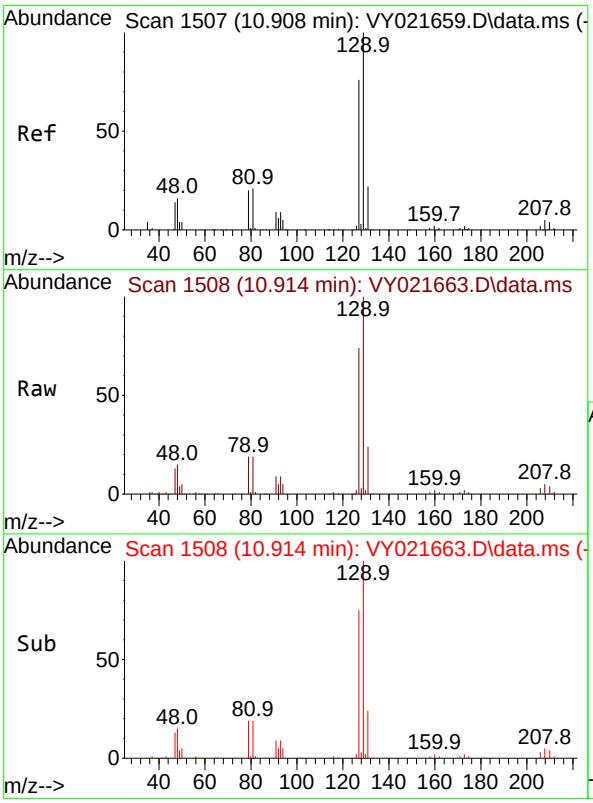
Ion	Ratio	Lower	Upper
43	100		
58	55.0	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

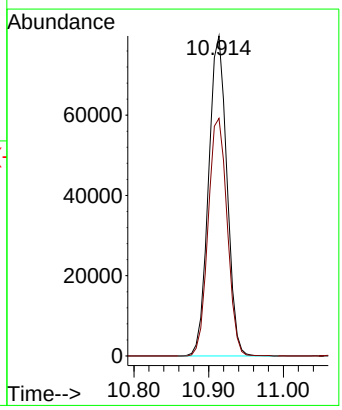


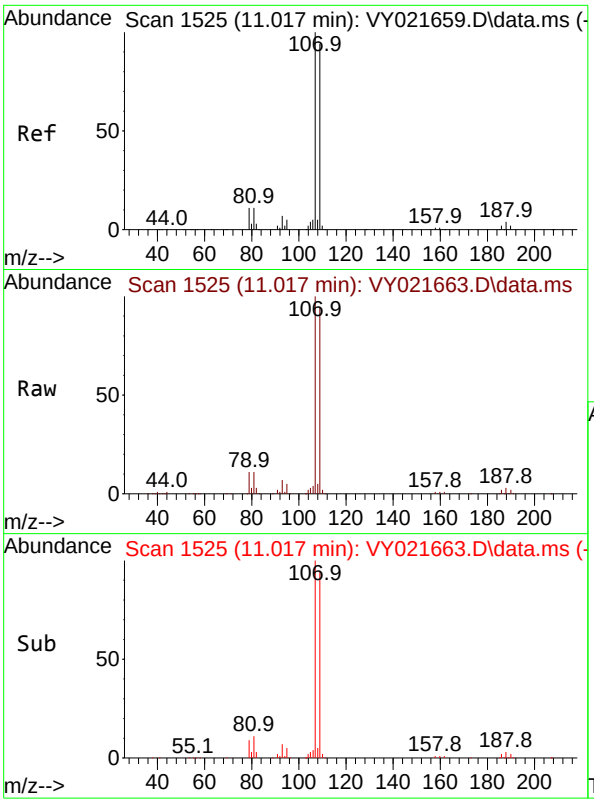


#60
Dibromochloromethane
Concen: 50.679 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:129 Resp: 135955

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7

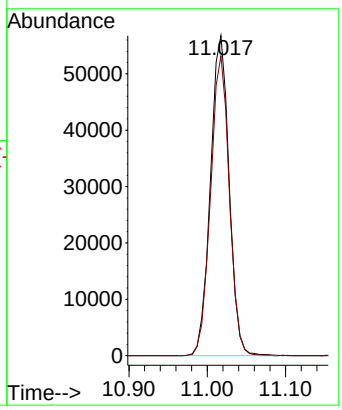




#61
1,2-Dibromoethane
Concen: 50.970 ug/l
RT: 11.017 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:107 Resp: 9394

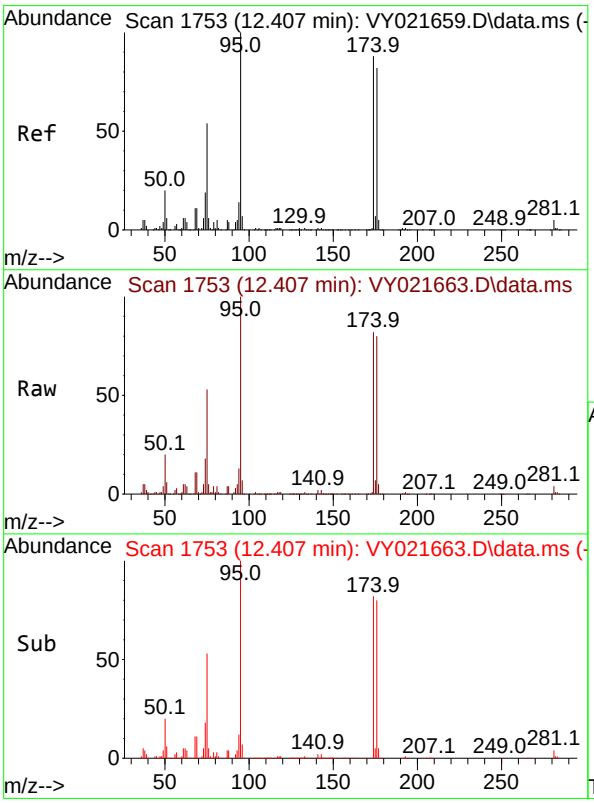
Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

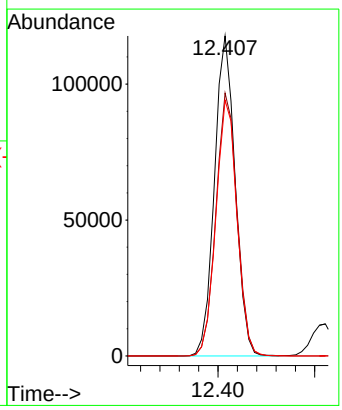
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

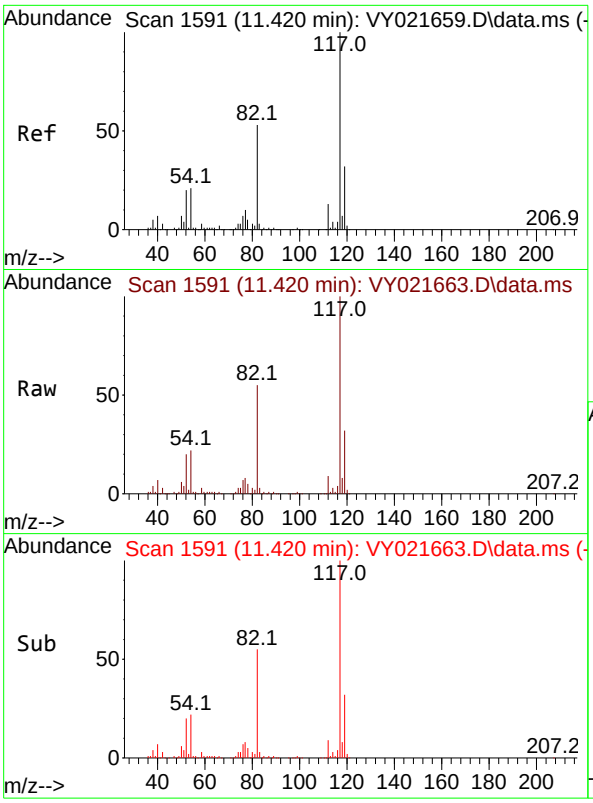


#62
4-Bromofluorobenzene
Concen: 55.339 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 95 Resp: 174721

Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	170.8
176	81.4	0.0	162.0

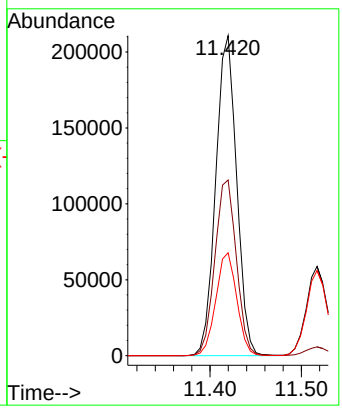




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:117 Resp: 33506

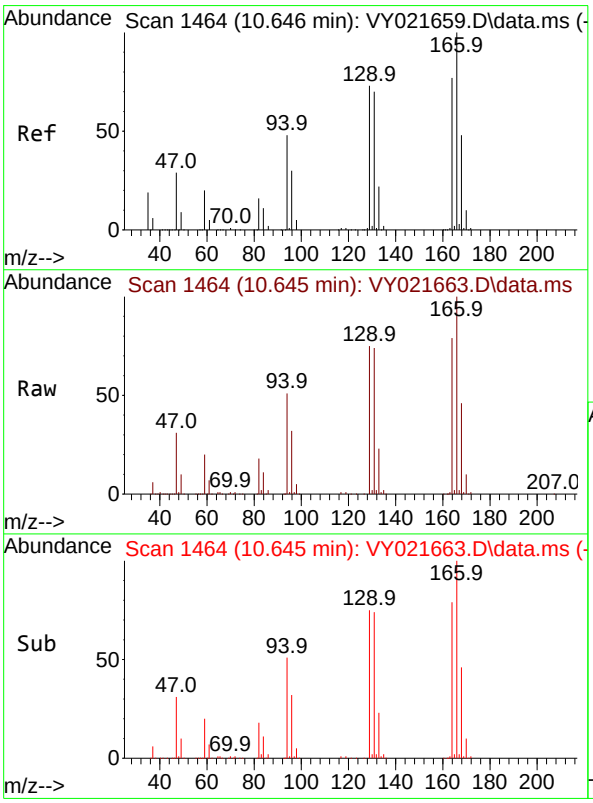
Ion	Ratio	Lower	Upper
117	100		
82	54.9	42.8	64.2
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

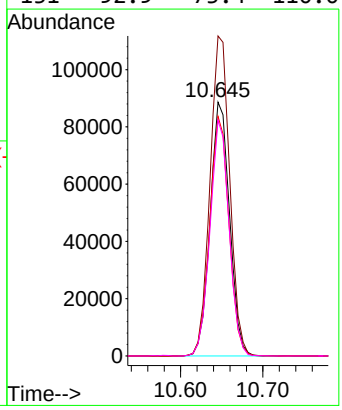
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

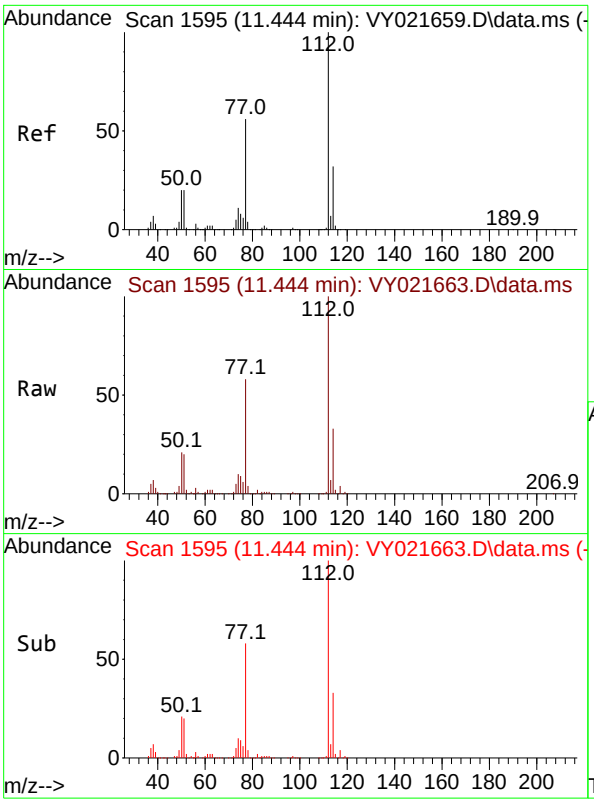


#64
Tetrachloroethene
Concen: 47.757 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:164 Resp: 145736

Ion	Ratio	Lower	Upper
164	100		
166	126.1	104.6	156.8
129	94.4	76.6	114.8
131	92.9	73.4	110.0

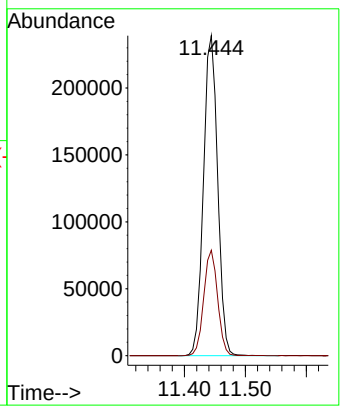




#65
Chlorobenzene
Concen: 50.384 ug/l
RT: 11.444 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:112 Resp: 38698

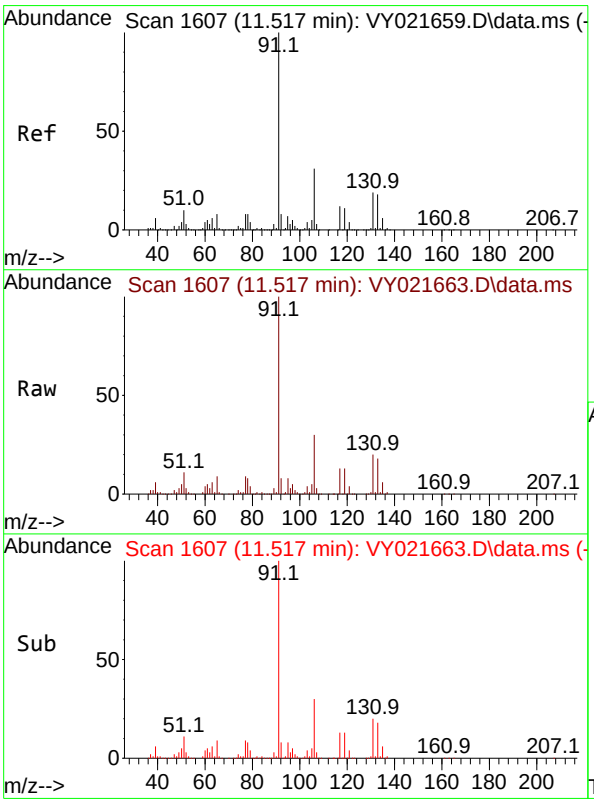
Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

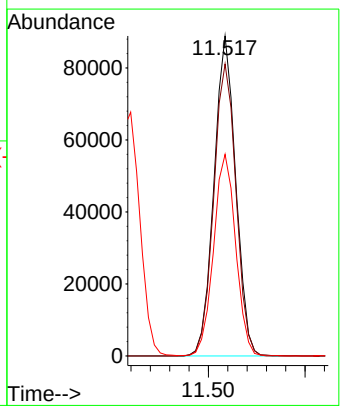
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

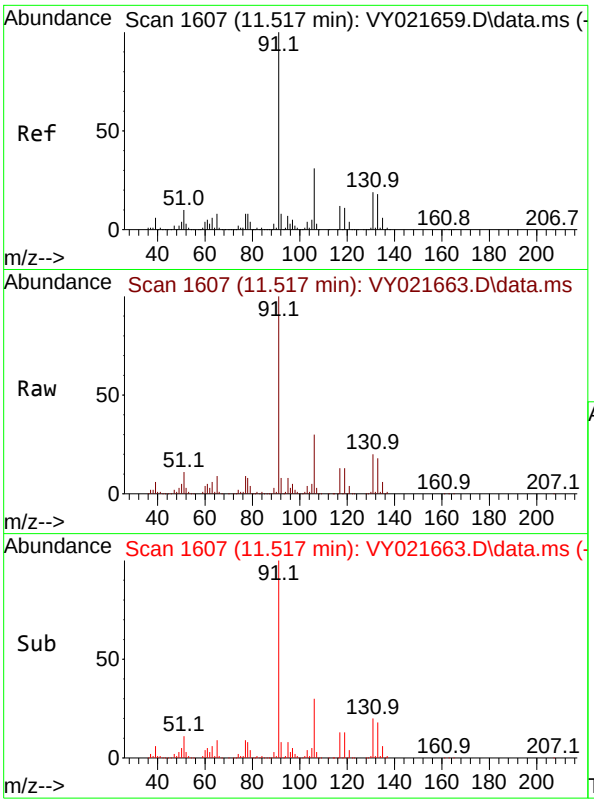


#66
1,1,1,2-Tetrachloroethane
Concen: 50.802 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:131 Resp: 138442

Ion	Ratio	Lower	Upper
131	100		
133	93.8	47.3	141.8
119	64.1	31.6	95.0

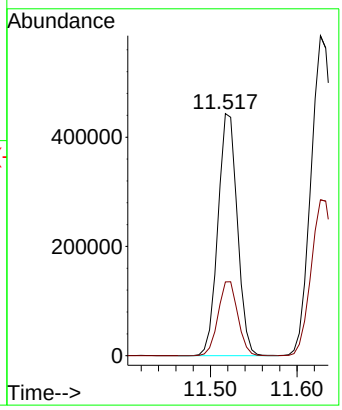




#67
Ethyl Benzene
Concen: 52.346 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 91 Resp: 68943

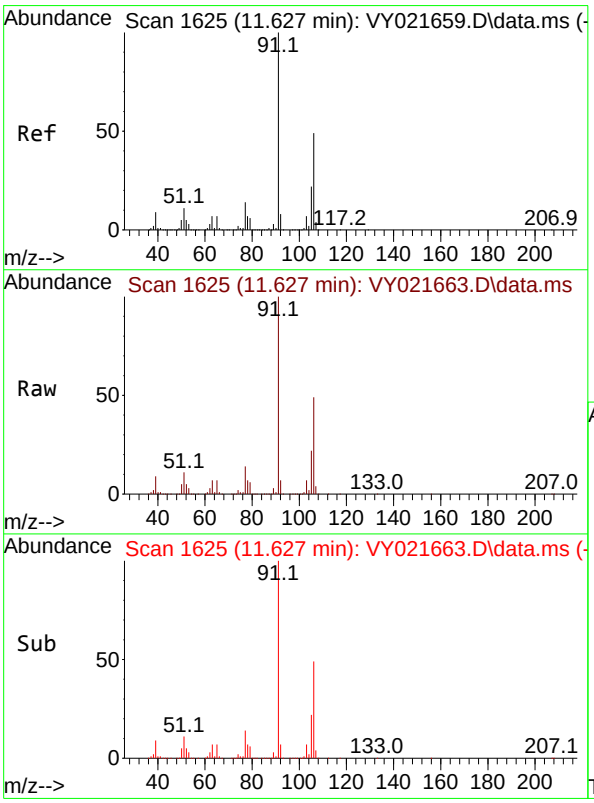
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

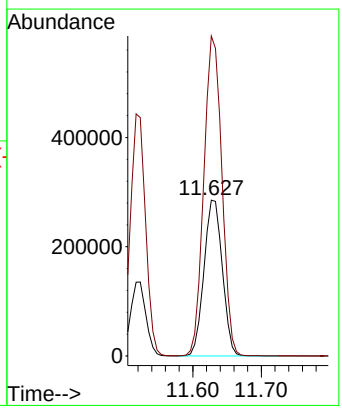
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

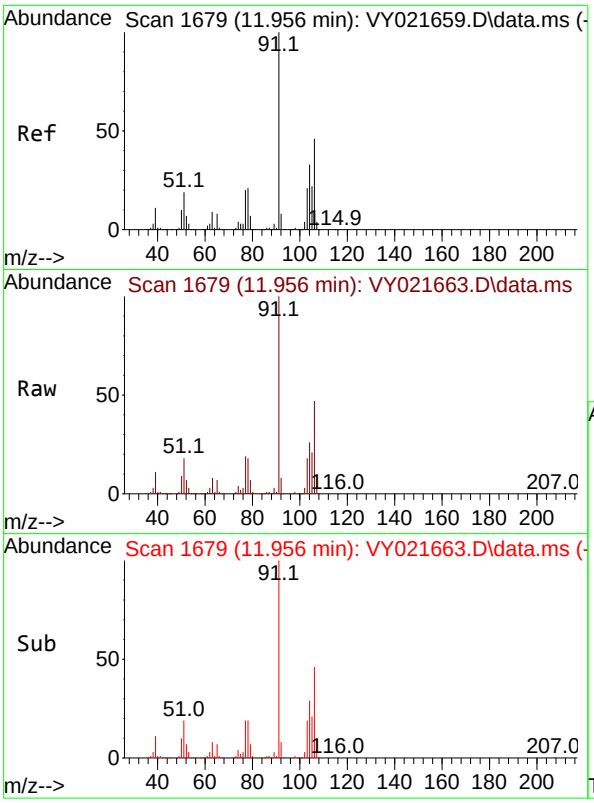


#68
m/p-Xylenes
Concen: 105.402 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:106 Resp: 531589

Ion	Ratio	Lower	Upper
106	100		
91	202.3	162.4	243.6





#69
o-Xylene
Concen: 53.075 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

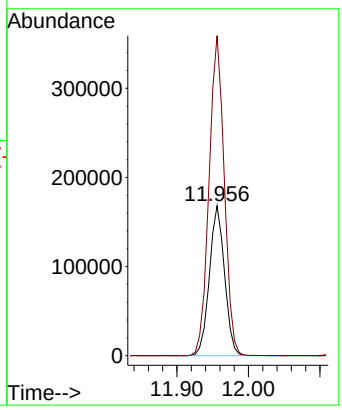
Tgt Ion:106 Resp: 24709

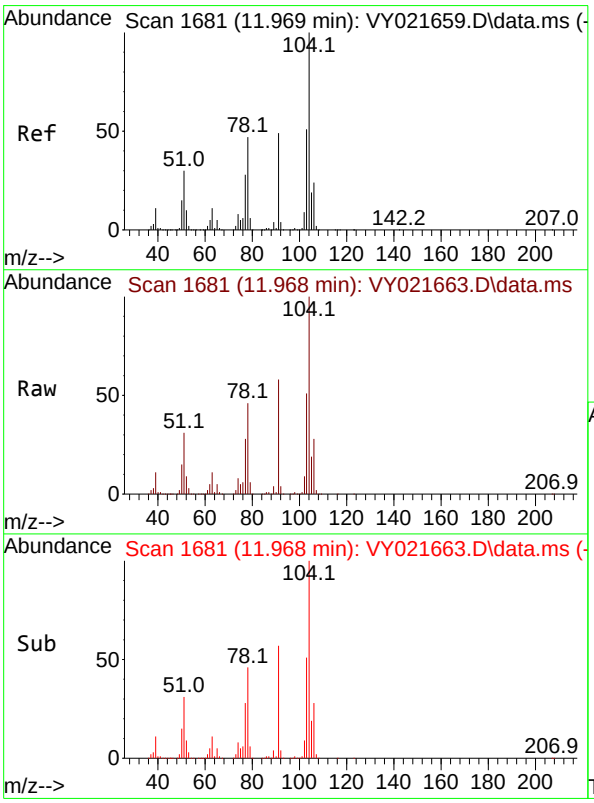
Ion	Ratio	Lower	Upper
106	100		
91	214.6	106.7	319.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

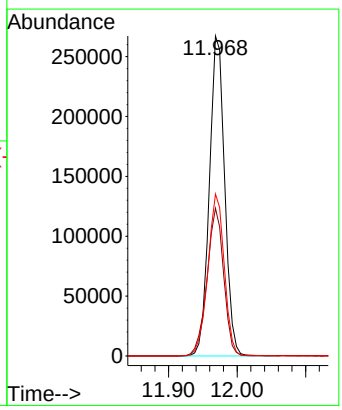


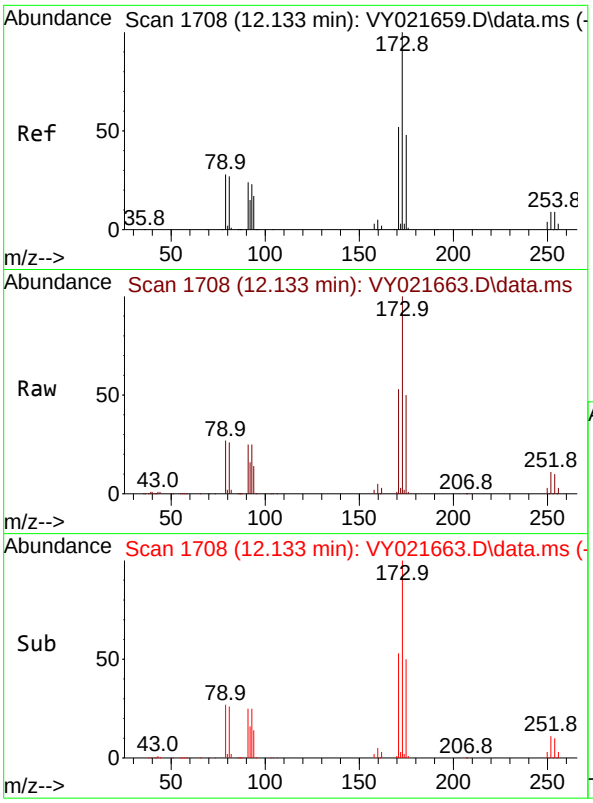


#70
Styrene
Concen: 53.627 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:104 Resp: 416261

Ion	Ratio	Lower	Upper
104	100		
78	50.1	40.8	61.2
103	54.3	44.2	66.2

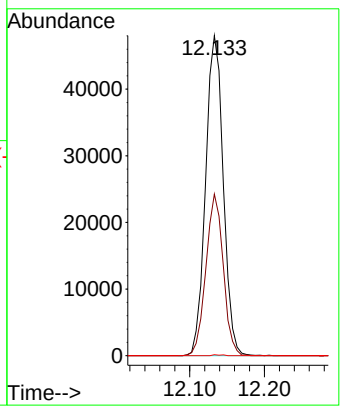




#71
Bromoform
Concen: 50.778 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:173 Resp: 7893

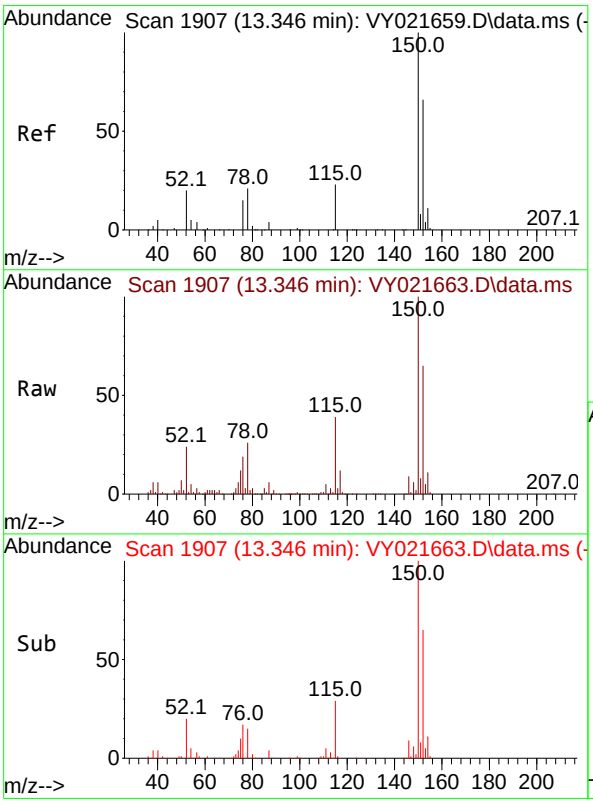
Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.3	73.0
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

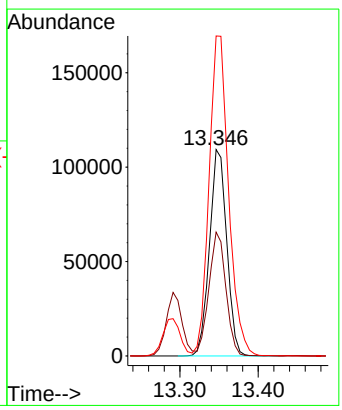
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

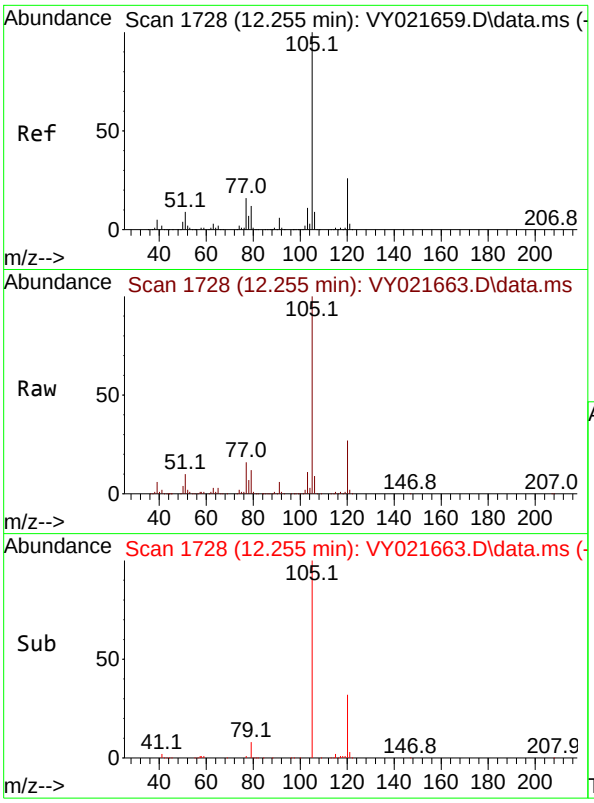


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:152 Resp: 166949

Ion	Ratio	Lower	Upper
152	100		
115	58.7	28.8	86.5
150	175.8	0.0	348.4

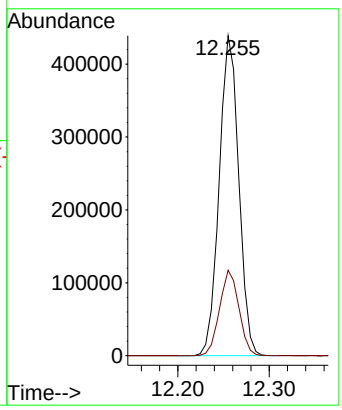




#73
Isopropylbenzene
Concen: 52.705 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:105 Resp: 65354

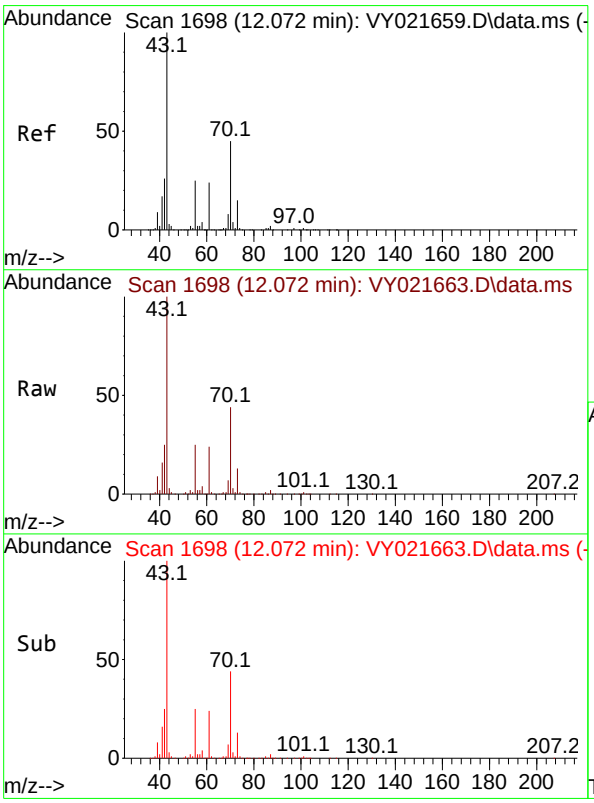
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

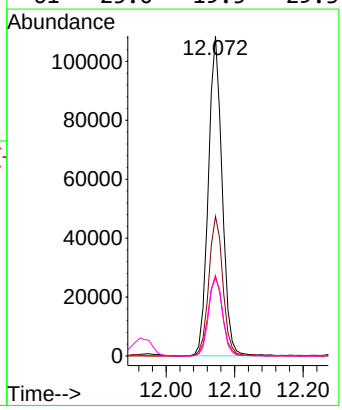
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

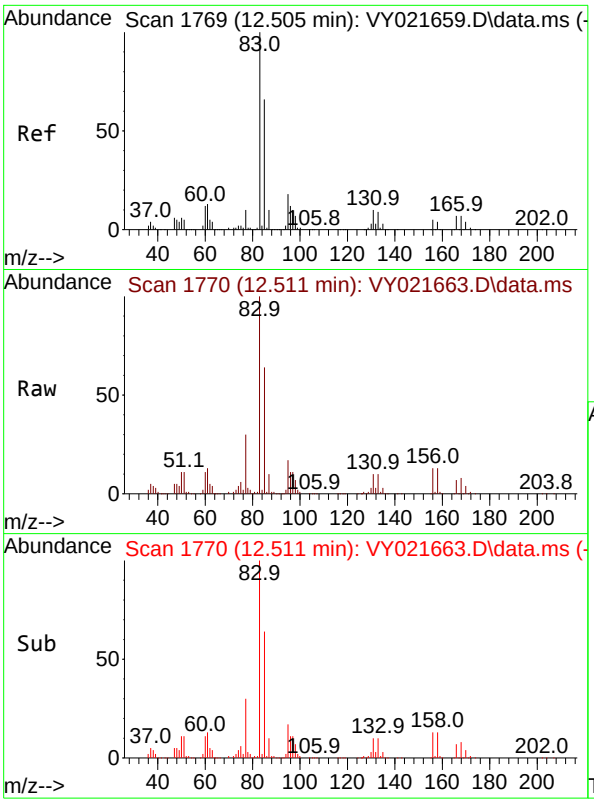


#74
N-amyl acetate
Concen: 52.323 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 43 Resp: 152268

Ion	Ratio	Lower	Upper
43	100		
70	44.6	34.7	52.1
55	26.0	21.2	31.8
61	25.0	19.5	29.3

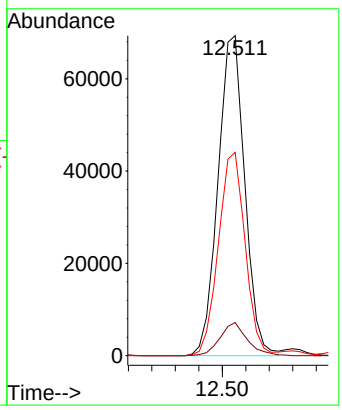




#75
1,1,2,2-Tetrachloroethane
Concen: 49.266 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 83 Resp: 10983

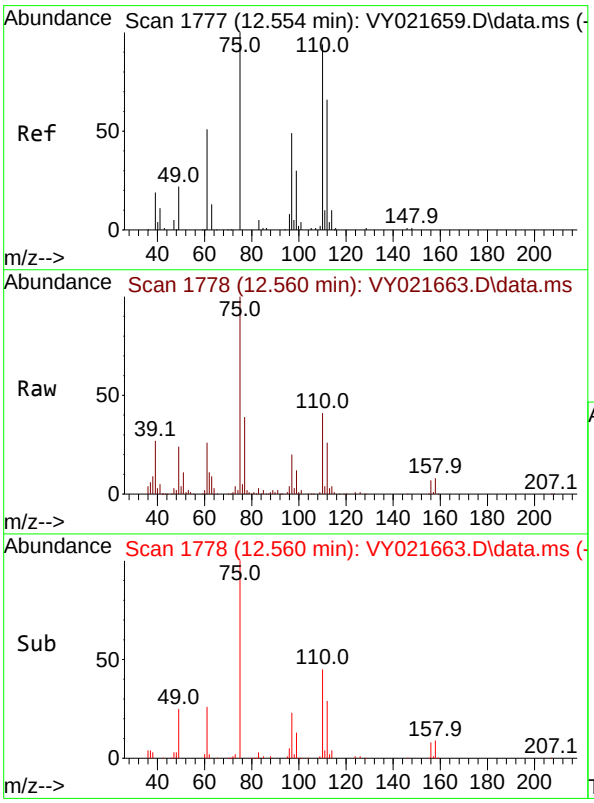
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	63.6	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

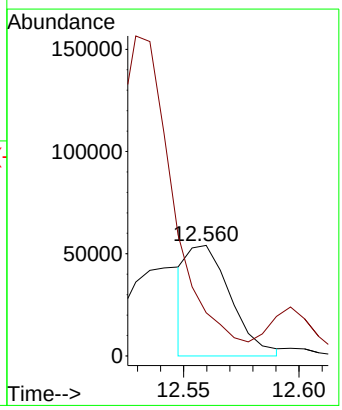
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

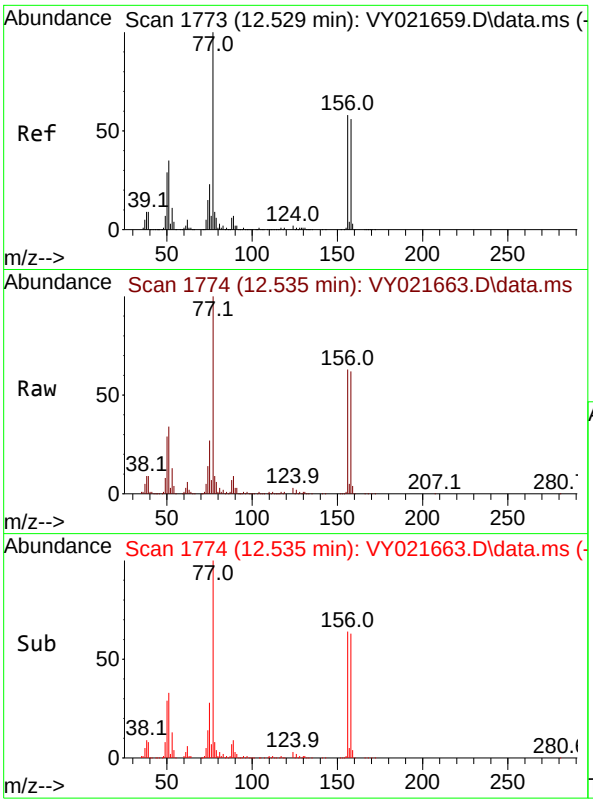


#76
1,2,3-Trichloropropane
Concen: 42.688 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 75 Resp: 70644

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

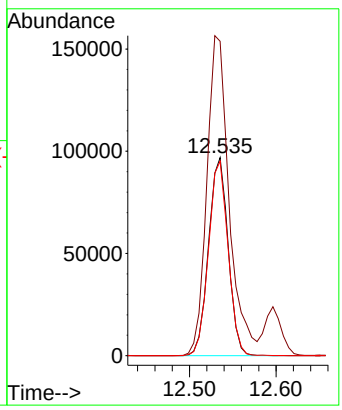




#77
Bromobenzene
Concen: 51.125 ug/l
RT: 12.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:156 Resp: 15221

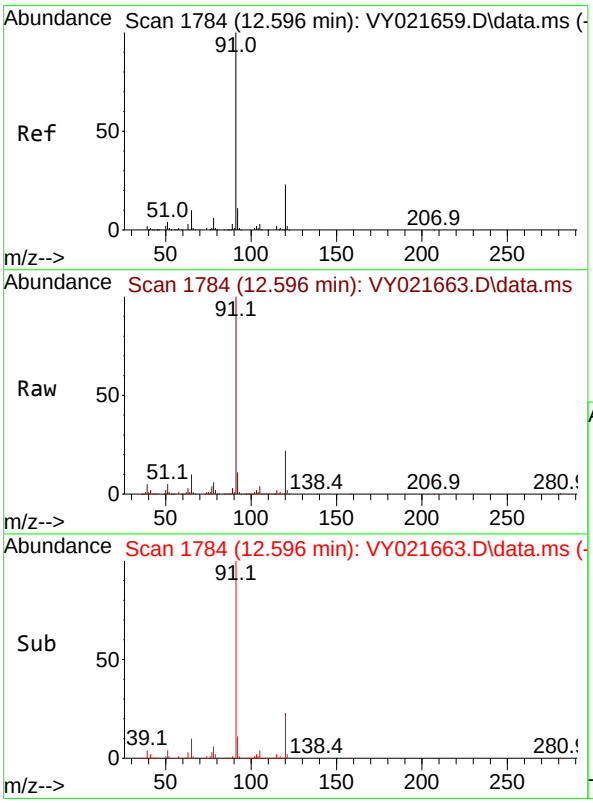
Ion	Ratio	Lower	Upper
156	100		
77	184.2	92.8	278.3
158	98.1	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

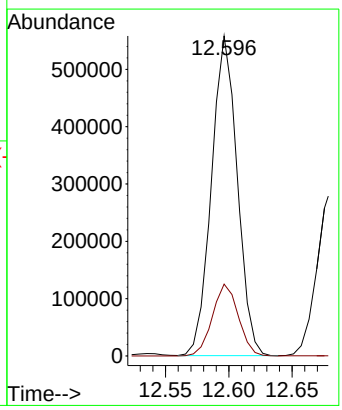
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

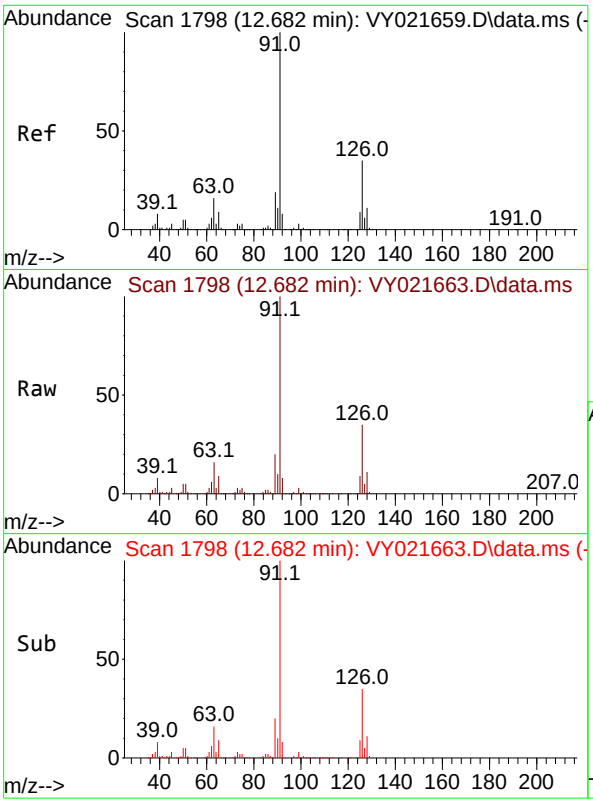


#78
n-propylbenzene
Concen: 53.182 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 91 Resp: 792814

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.9

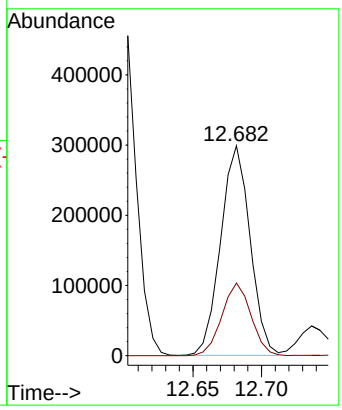




#79
2-Chlorotoluene
Concen: 51.671 ug/l
RT: 12.682 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 91 Resp: 44740

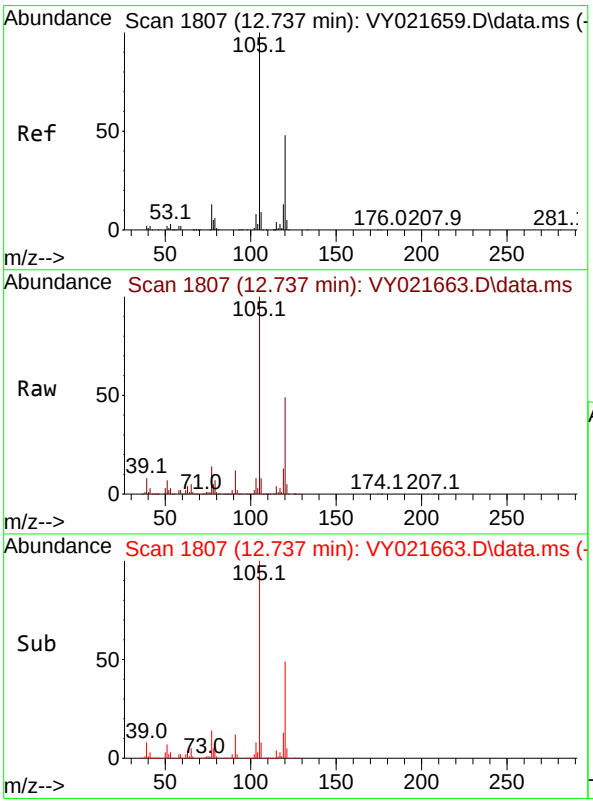
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

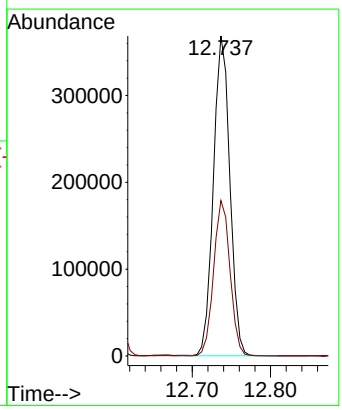
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

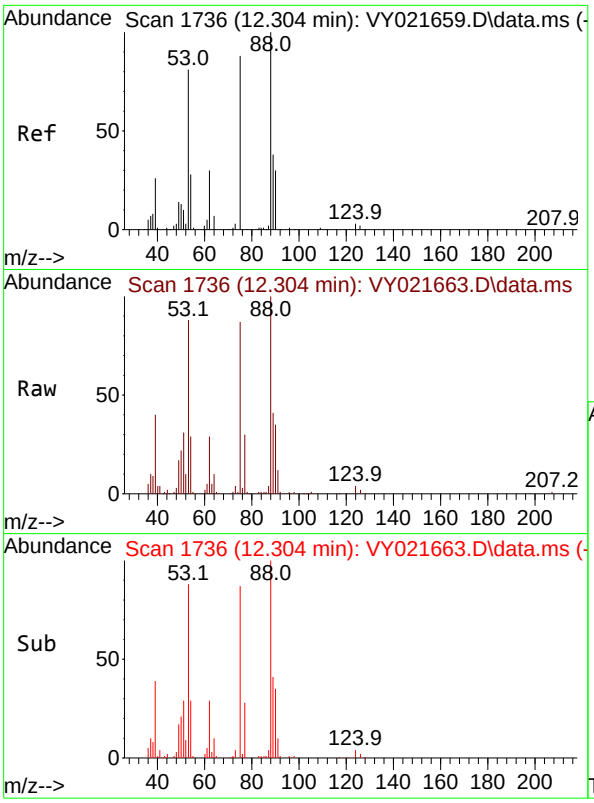


#80
1,3,5-Trimethylbenzene
Concen: 53.236 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:105 Resp: 539512

Ion	Ratio	Lower	Upper
105	100		
120	48.4	24.5	73.5

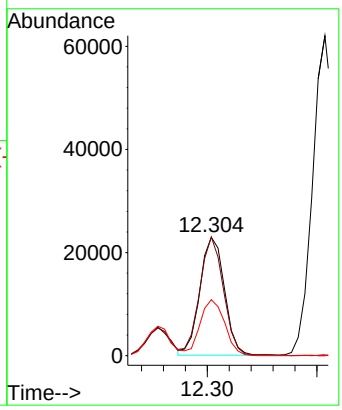




#81
trans-1,4-Dichloro-2-butene
Concen: 49.488 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 75 Resp: 3554

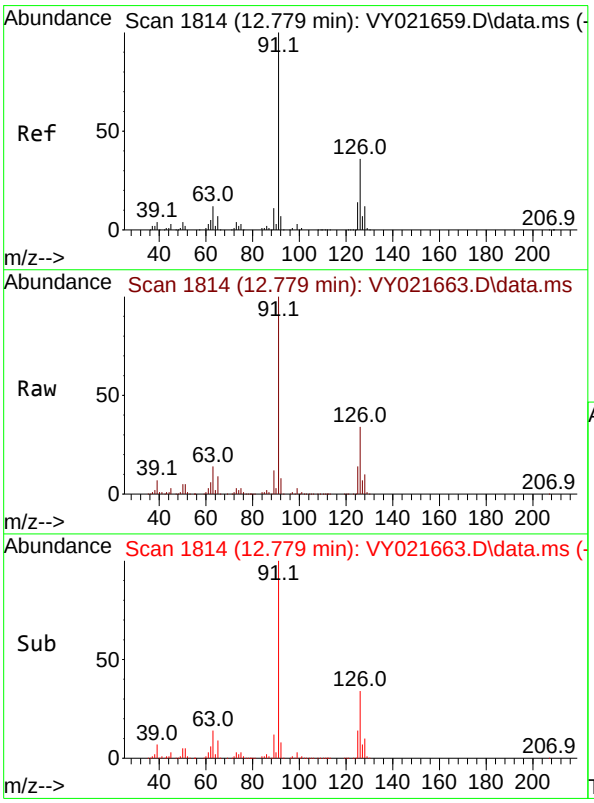
Ion	Ratio	Lower	Upper
75	100		
53	98.7	76.1	114.1
89	47.3	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

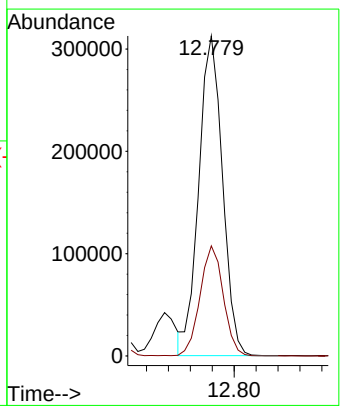
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

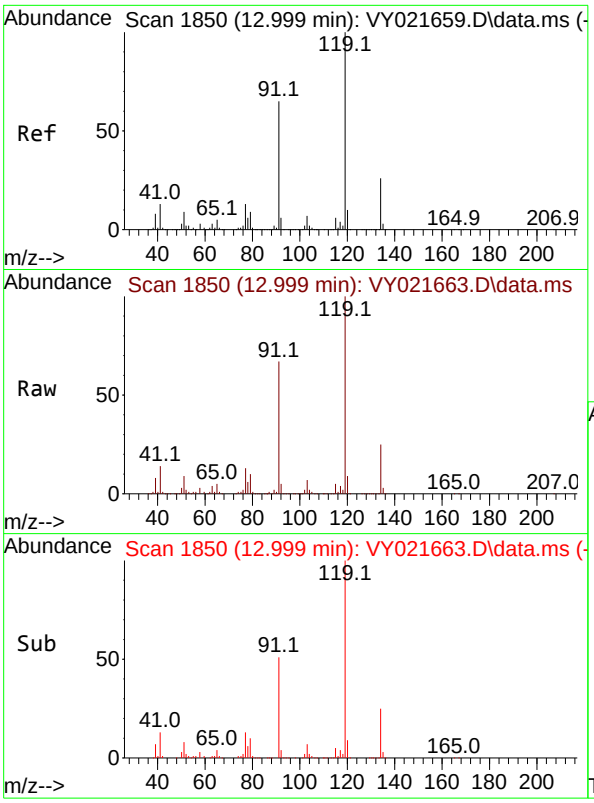


#82
4-Chlorotoluene
Concen: 51.969 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 91 Resp: 469122

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

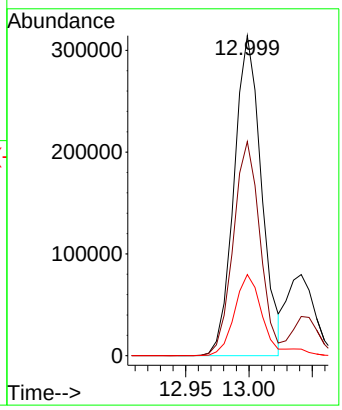




#83
tert-Butylbenzene
Concen: 52.616 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:119 Resp: 47494

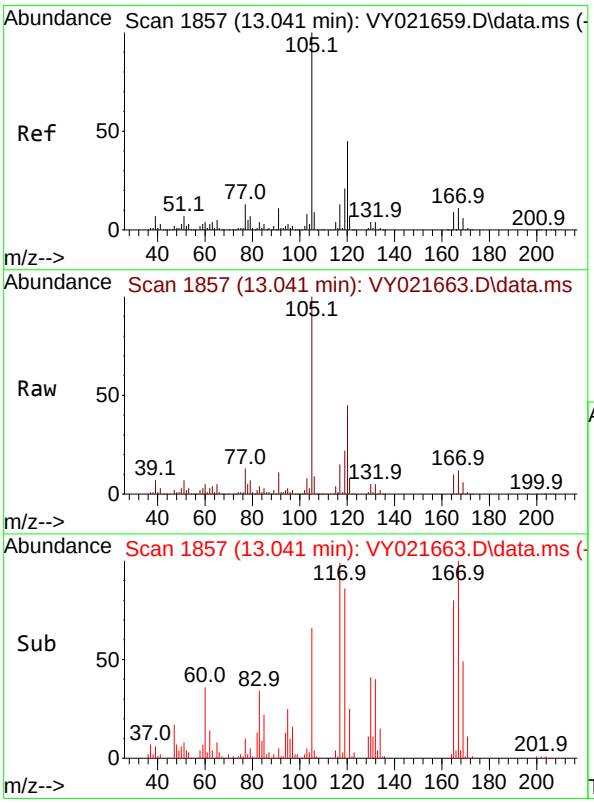
Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.6	97.7
134	26.5	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

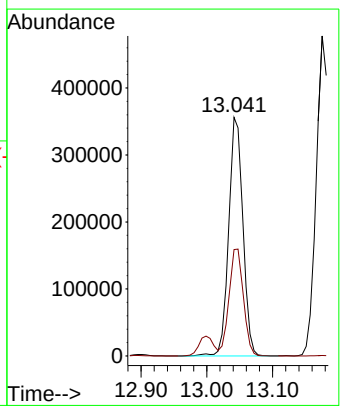
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

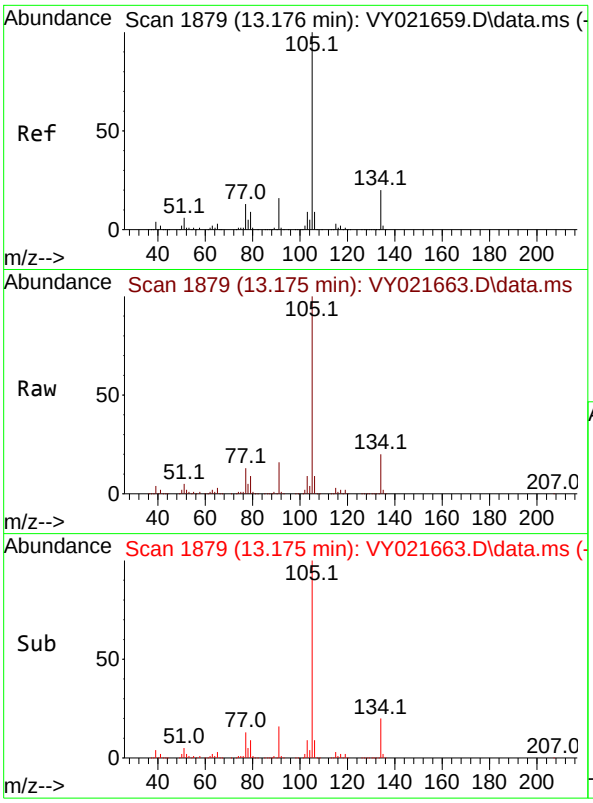


#84
1,2,4-Trimethylbenzene
Concen: 53.454 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:105 Resp: 535411

Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.7	68.1

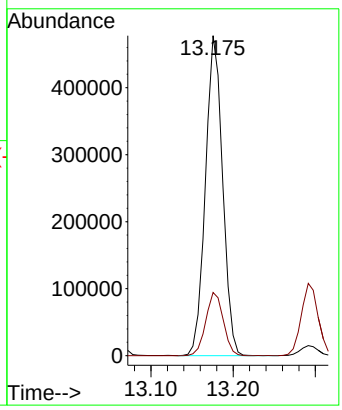




#85
sec-Butylbenzene
Concen: 52.471 ug/l
RT: 13.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:105 Resp: 69218

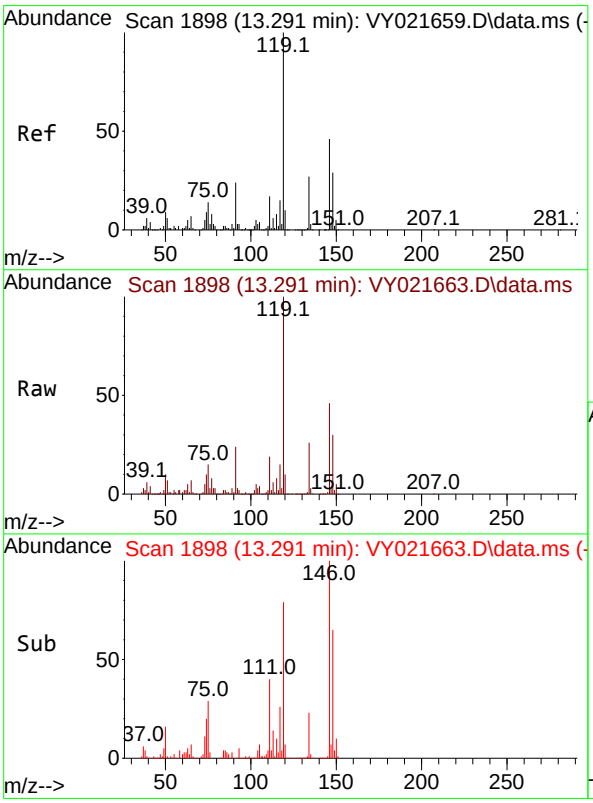
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

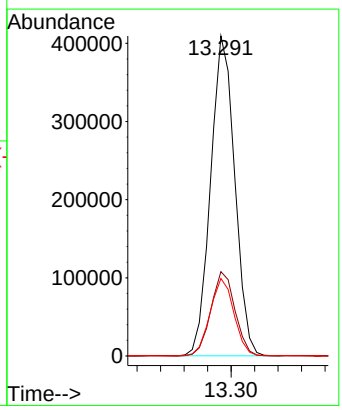
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

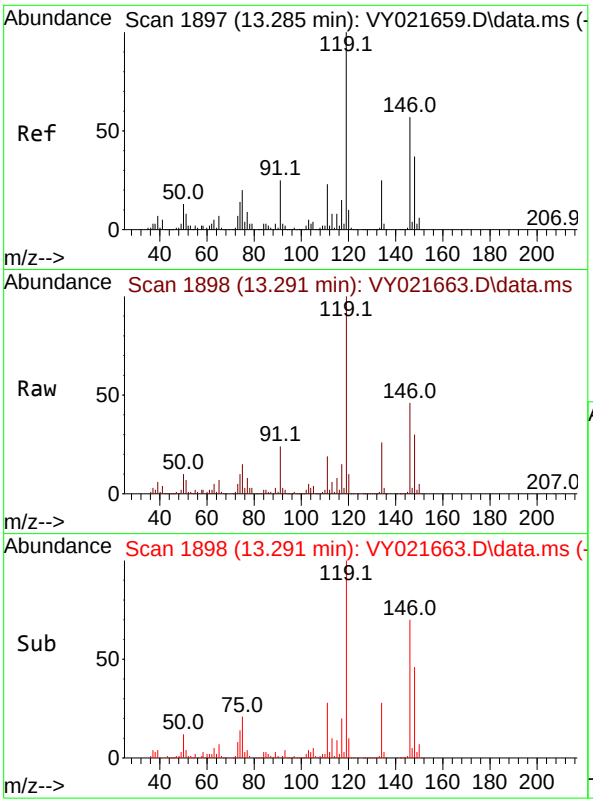


#86
p-Isopropyltoluene
Concen: 53.479 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:119 Resp: 583069

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.5
91	23.8	12.0	36.0

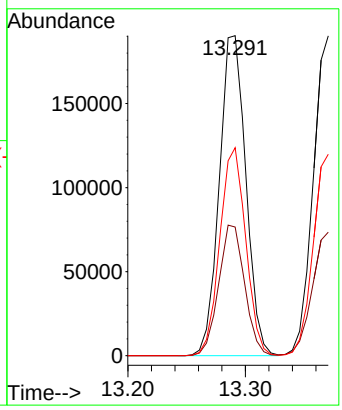




#87
1,3-Dichlorobenzene
Concen: 50.987 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:146 Resp: 29907

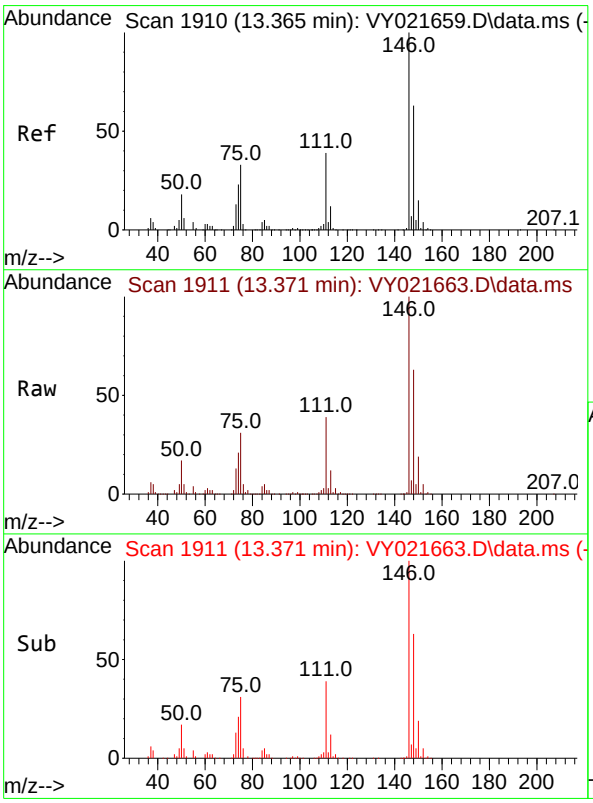
Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	60.0
148	63.5	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

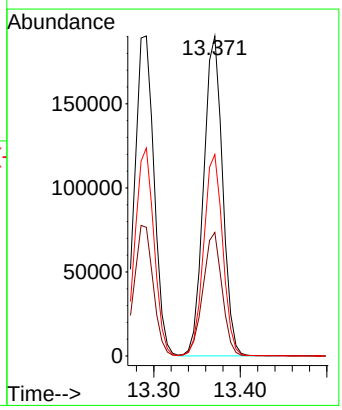
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

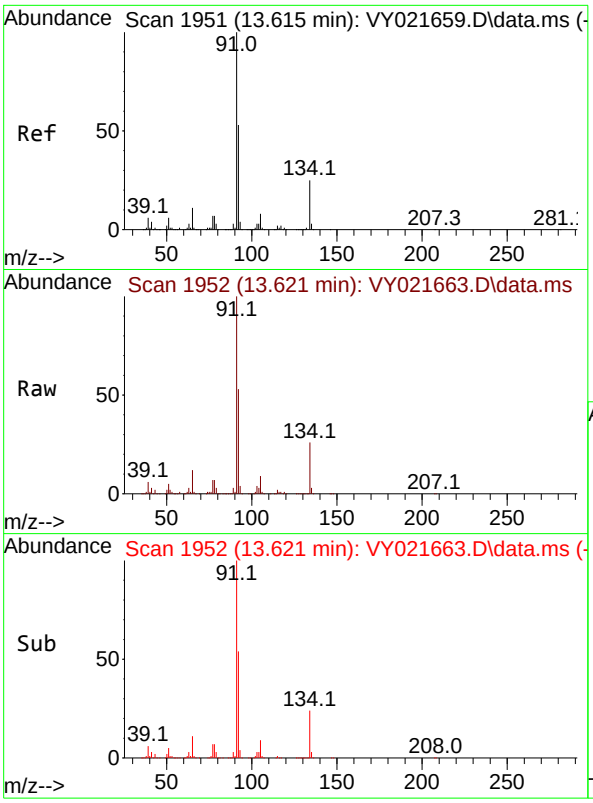


#88
1,4-Dichlorobenzene
Concen: 49.741 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:146 Resp: 288264

Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.1	57.1
148	63.7	31.5	94.5

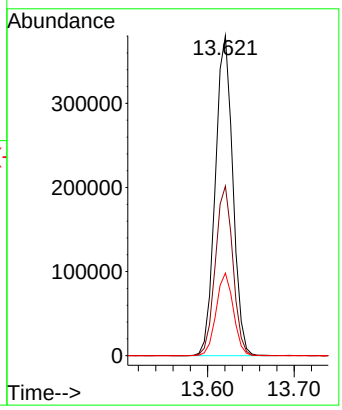




#89
n-Butylbenzene
Concen: 52.927 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 91 Resp: 53366

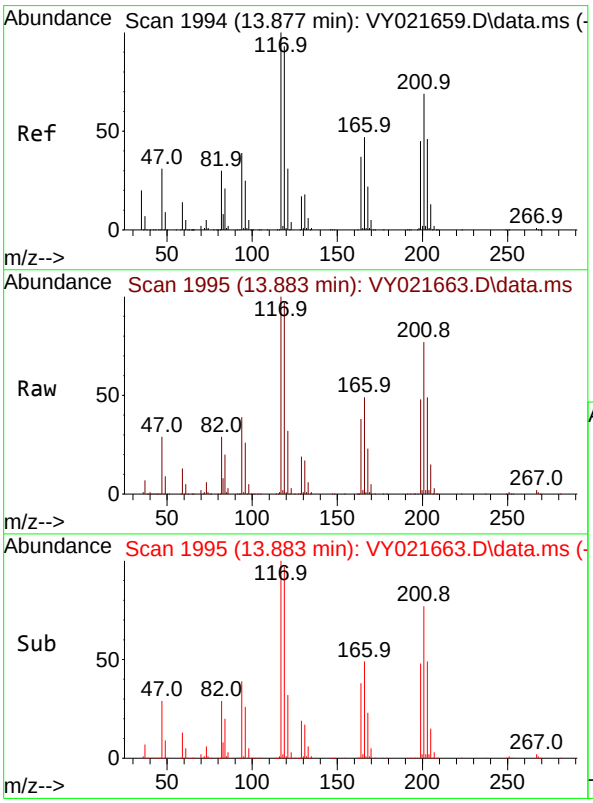
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.4	79.2
134	25.4	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations
APPROVED

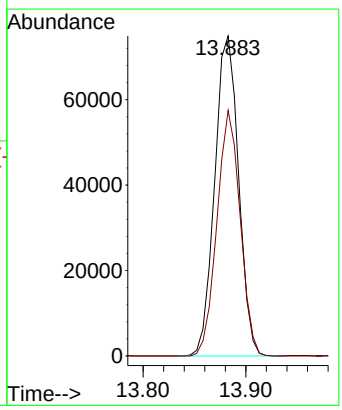
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

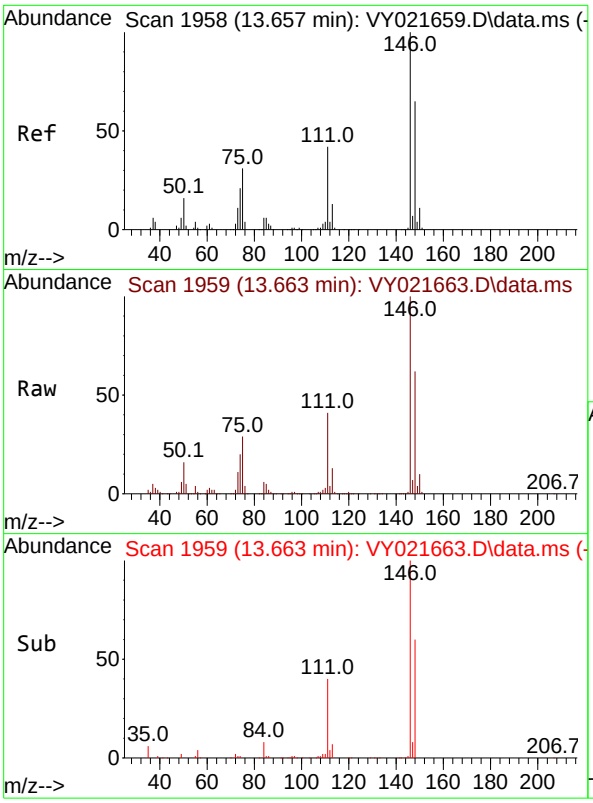


#90
Hexachloroethane
Concen: 50.454 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:117 Resp: 120546

Ion	Ratio	Lower	Upper
117	100		
201	74.7	37.4	112.1

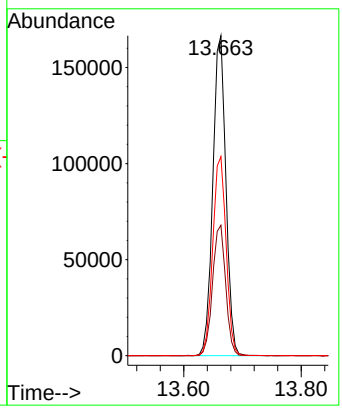




#91
1,2-Dichlorobenzene
Concen: 50.346 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:146 Resp: 25707

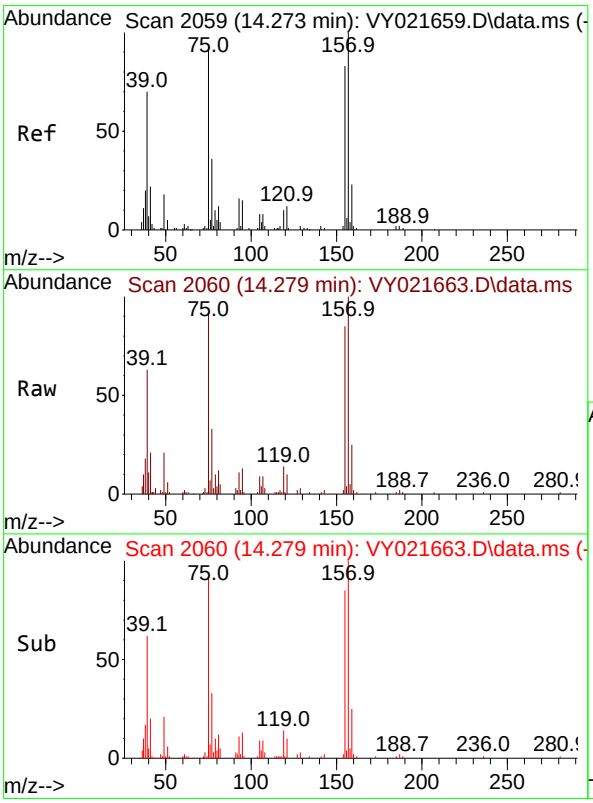
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.7	62.1
148	63.6	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

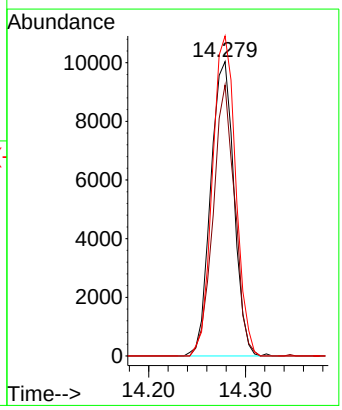
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

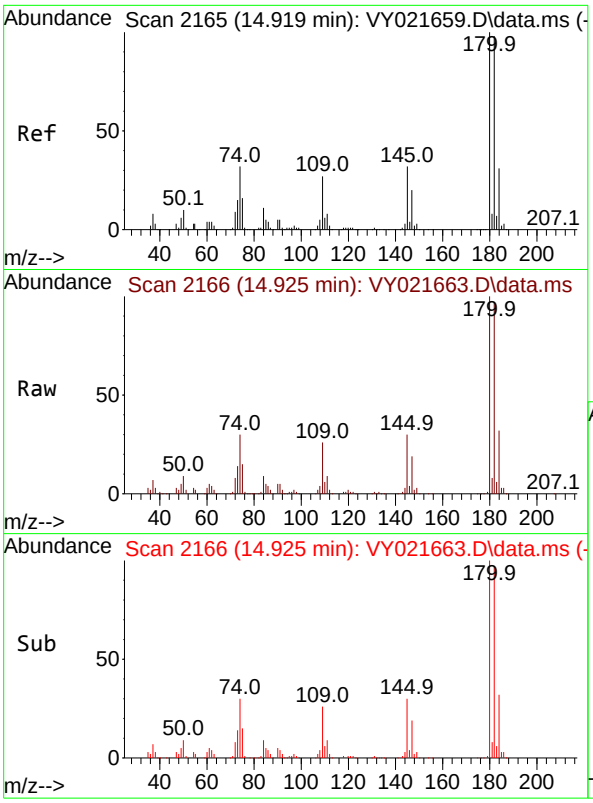


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.476 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion: 75 Resp: 16750

Ion	Ratio	Lower	Upper
75	100		
155	85.3	43.0	128.8
157	109.0	54.0	162.0

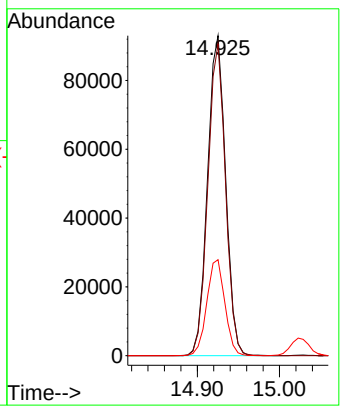




#93
1,2,4-Trichlorobenzene
Concen: 51.429 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:180 Resp: 14240

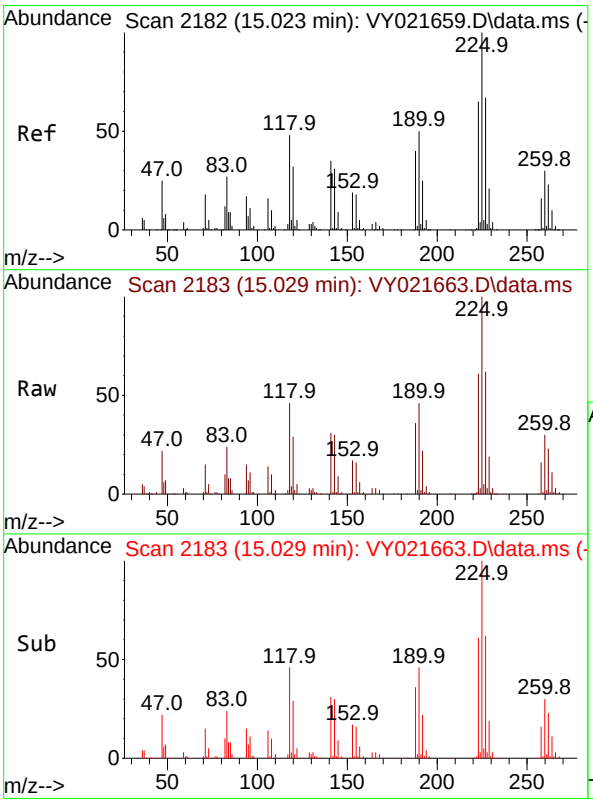
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.5	142.6
145	30.0	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

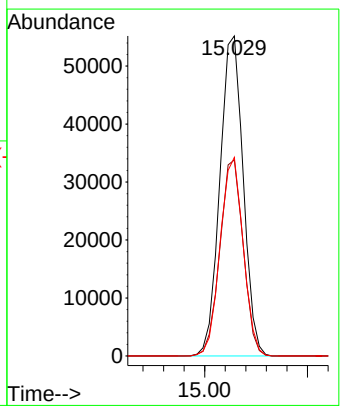
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025

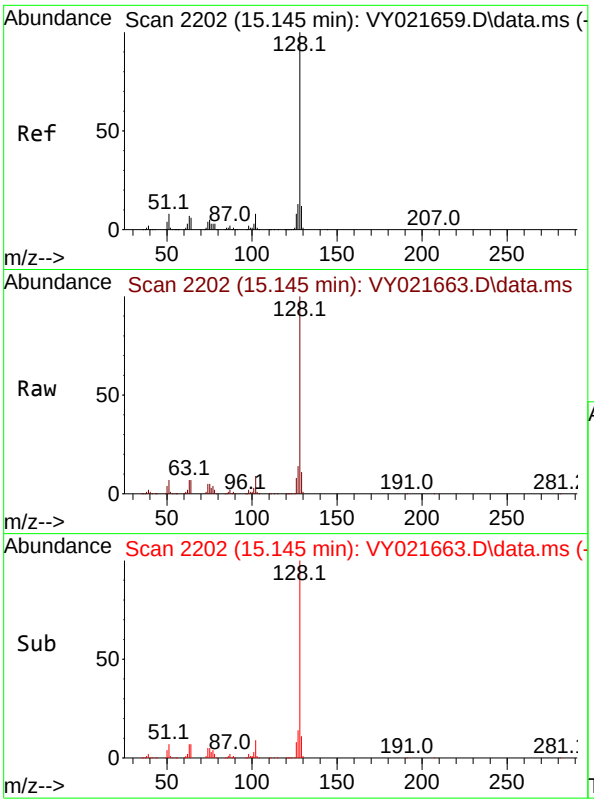


#94
Hexachlorobutadiene
Concen: 50.245 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:225 Resp: 86891

Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.9	95.7
227	61.4	32.4	97.0

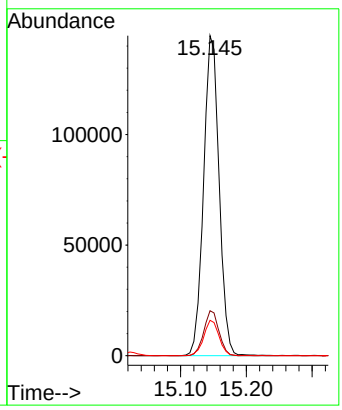




#95
Naphthalene
Concen: 51.759 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:128 Resp: 23756

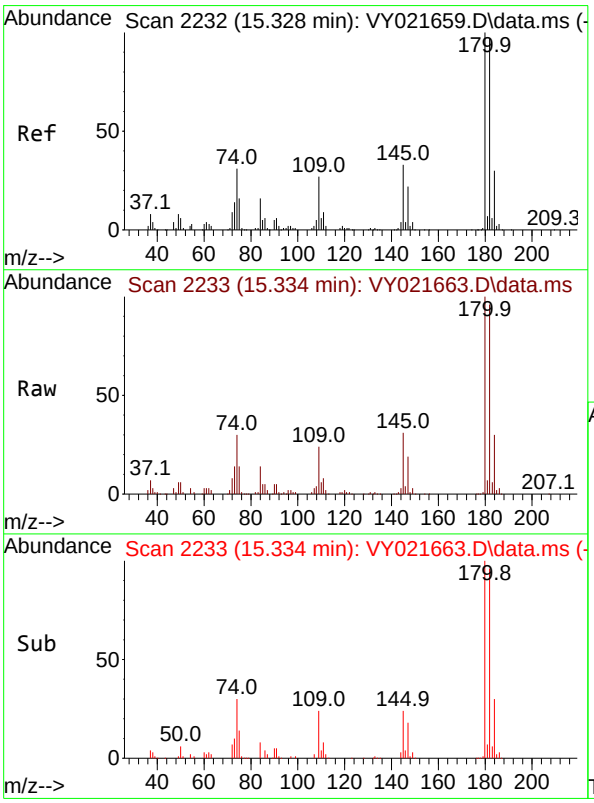
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.8	16.2
129	10.8	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Manual Integrations APPROVED

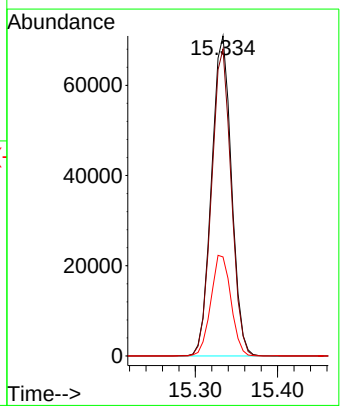
Reviewed By :Romaben Patel 03/28/2025
Supervised By :Mahesh Dadoda 03/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.640 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY021663.D
Acq: 27 Mar 2025 13:15

Tgt Ion:180 Resp: 119575

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.5	142.5
145	31.7	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	101	0.00
2	T	Dichlorodifluoromethane	0.518	0.504	2.7	101	0.00
3	P	Chloromethane	0.729	0.740	-1.5	108	0.00
4	C	Vinyl Chloride	0.824	0.804	2.4#	102	0.00
5	T	Bromomethane	0.562	0.554	1.4	109	0.00
6	T	Chloroethane	0.539	0.546	-1.3	108	0.00
7	T	Trichlorofluoromethane	1.056	1.098	-4.0	110	0.00
8	T	Diethyl Ether	0.287	0.297	-3.5	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.557	0.537	3.6	101	0.00
10	T	Methyl Iodide	0.611	0.597	2.3	92	0.00
11	T	Tert butyl alcohol	0.035	0.034	2.9	101	0.00
12	CM	1,1-Dichloroethene	0.524	0.514	1.9#	101	0.00
13	T	Acrolein	0.064	0.064	0.0	103	0.00
14	T	Allyl chloride	0.836	0.843	-0.8	102	0.00
15	T	Acrylonitrile	0.120	0.118	1.7	99	0.00
16	T	Acetone	0.111	0.104	6.3	98	0.00
17	T	Carbon Disulfide	1.727	1.708	1.1	102	0.00
18	T	Methyl Acetate	0.275	0.268	2.5	102	0.00
19	T	Methyl tert-butyl Ether	1.306	1.320	-1.1	101	0.00
20	T	Methylene Chloride	0.626	0.578	7.7	104	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.580	-0.5	104	0.00
22	T	Diisopropyl ether	1.754	1.799	-2.6	101	0.00
23	T	Vinyl Acetate	1.026	1.053	-2.6	100	0.00
24	P	1,1-Dichloroethane	1.049	1.049	0.0	102	0.00
25	T	2-Butanone	0.158	0.153	3.2	97	0.00
26	T	2,2-Dichloropropane	0.933	0.916	1.8	101	0.00
27	T	cis-1,2-Dichloroethene	0.649	0.660	-1.7	102	0.00
28	T	Bromochloromethane	0.442	0.446	-0.9	106	0.00
29	T	Tetrahydrofuran	0.102	0.101	1.0	97	0.00
30	C	Chloroform	1.091	1.080	1.0#	101	0.00
31	T	Cyclohexane	0.956	0.915	4.3	101	0.00
32	T	1,1,1-Trichloroethane	0.986	0.973	1.3	102	0.00
33	S	1,2-Dichloroethane-d4	0.542	0.569	-5.0	105	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.324	0.352	-8.6	106	0.00
36	T	1,1-Dichloropropene	0.494	0.497	-0.6	101	0.00
37	T	Ethyl Acetate	0.233	0.229	1.7	99	0.00
38	T	Carbon Tetrachloride	0.566	0.564	0.4	102	0.00
39	T	Methylcyclohexane	0.590	0.612	-3.7	101	0.00
40	TM	Benzene	1.479	1.496	-1.1	102	0.00
41	T	Methacrylonitrile	0.124	0.118	4.8	88	-0.01
42	TM	1,2-Dichloroethane	0.417	0.413	1.0	101	0.00
43	T	Isopropyl Acetate	0.442	0.443	-0.2	100	0.00
44	TM	Trichloroethene	0.377	0.376	0.3	103	0.00
45	C	1,2-Dichloropropane	0.350	0.351	-0.3#	102	0.00
46	T	Dibromomethane	0.202	0.202	0.0	104	0.00
47	T	Bromodichloromethane	0.523	0.529	-1.1	103	0.00
48	T	Methyl methacrylate	0.203	0.211	-3.9	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	100	0.00
50	S	Toluene-d8	1.234	1.360	-10.2	107	0.00
51	T	4-Methyl-2-Pentanone	0.230	0.233	-1.3	99	0.00
52	CM	Toluene	0.923	0.952	-3.1#	102	0.00
53	T	t-1,3-Dichloropropene	0.465	0.475	-2.2	100	0.00
54	T	cis-1,3-Dichloropropene	0.548	0.561	-2.4	101	0.00
55	T	1,1,2-Trichloroethane	0.260	0.258	0.8	101	0.00
56	T	Ethyl methacrylate	0.332	0.361	-8.7	101	0.00
57	T	1,3-Dichloropropane	0.449	0.454	-1.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.162	0.179	-10.5	102	0.00
59	T	2-Hexanone	0.153	0.156	-2.0	98	0.00
60	T	Dibromochloromethane	0.355	0.359	-1.1	101	0.00
61	T	1,2-Dibromoethane	0.244	0.248	-1.6	100	0.00
62	S	4-Bromofluorobenzene	0.417	0.462	-10.8	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.455	0.435	4.4	98	0.00
65	PM	Chlorobenzene	1.146	1.155	-0.8	102	0.00
66	T	1,1,1,2-Tetrachloroethane	0.407	0.413	-1.5	102	0.00
67	C	Ethyl Benzene	1.965	2.058	-4.7#	102	0.00
68	T	m/p-Xylenes	0.753	0.793	-5.3	102	0.00
69	T	o-Xylene	0.695	0.737	-6.0	102	0.00
70	T	Styrene	1.158	1.242	-7.3	102	0.00
71	P	Bromoform	0.232	0.236	-1.7	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73	T	Isopropylbenzene	3.714	3.915	-5.4	102	0.00
74	T	N-amyl acetate	0.872	0.912	-4.6	99	0.00
75	P	1,1,2,2-Tetrachloroethane	0.668	0.658	1.5	100	0.00
76	T	1,2,3-Trichloropropane	0.496	0.423	14.7	84	0.00
77	T	Bromobenzene	0.892	0.912	-2.2	102	0.00
78	T	n-propylbenzene	4.465	4.749	-6.4	102	0.00
79	T	2-Chlorotoluene	2.593	2.680	-3.4	101	0.00
80	T	1,3,5-Trimethylbenzene	3.035	3.232	-6.5	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.215	0.213	0.9	95	0.00
82	T	4-Chlorotoluene	2.704	2.810	-3.9	101	0.00
83	T	tert-Butylbenzene	2.703	2.845	-5.3	101	0.00
84	T	1,2,4-Trimethylbenzene	3.000	3.207	-6.9	102	0.00
85	T	sec-Butylbenzene	3.951	4.146	-4.9	101	0.00
86	T	p-Isopropyltoluene	3.265	3.492	-7.0	101	0.00
87	T	1,3-Dichlorobenzene	1.757	1.791	-1.9	102	0.00
88	T	1,4-Dichlorobenzene	1.736	1.727	0.5	99	0.00
89	T	n-Butylbenzene	3.020	3.197	-5.9	100	0.00
90	T	Hexachloroethane	0.716	0.722	-0.8	102	0.00
91	T	1,2-Dichlorobenzene	1.529	1.540	-0.7	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.103	0.100	2.9	98	0.00
93	T	1,2,4-Trichlorobenzene	0.829	0.853	-2.9	97	0.00
94	T	Hexachlorobutadiene	0.518	0.520	-0.4	99	0.00
95	T	Naphthalene	1.375	1.423	-3.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	0.707	0.716	-1.3	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	101	0.00
2	T	Dichlorodifluoromethane	50.000	48.632	2.7	101	0.00
3	P	Chloromethane	50.000	50.781	-1.6	108	0.00
4	C	Vinyl Chloride	50.000	48.759	2.5#	102	0.00
5	T	Bromomethane	50.000	49.274	1.5	109	0.00
6	T	Chloroethane	50.000	50.589	-1.2	108	0.00
7	T	Trichlorofluoromethane	50.000	51.989	-4.0	110	0.00
8	T	Diethyl Ether	50.000	51.807	-3.6	109	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.213	3.6	101	0.00
10	T	Methyl Iodide	50.000	48.859	2.3	92	0.00
11	T	Tert butyl alcohol	250.000	239.093	4.4	101	0.00
12	CM	1,1-Dichloroethene	50.000	48.958	2.1#	101	0.00
13	T	Acrolein	250.000	249.738	0.1	103	0.00
14	T	Allyl chloride	50.000	50.380	-0.8	102	0.00
15	T	Acrylonitrile	250.000	246.085	1.6	99	0.00
16	T	Acetone	250.000	234.856	6.1	98	0.00
17	T	Carbon Disulfide	50.000	49.428	1.1	102	0.00
18	T	Methyl Acetate	50.000	48.703	2.6	102	0.00
19	T	Methyl tert-butyl Ether	50.000	50.561	-1.1	101	0.00
20	T	Methylene Chloride	50.000	53.536	-7.1	104	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.186	-0.4	104	0.00
22	T	Diisopropyl ether	50.000	51.273	-2.5	101	0.00
23	T	Vinyl Acetate	250.000	256.638	-2.7	100	0.00
24	P	1,1-Dichloroethane	50.000	50.001	-0.0	102	0.00
25	T	2-Butanone	250.000	240.921	3.6	97	0.00
26	T	2,2-Dichloropropane	50.000	49.103	1.8	101	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.806	-1.6	102	0.00
28	T	Bromochloromethane	50.000	50.360	-0.7	106	0.00
29	T	Tetrahydrofuran	250.000	247.271	1.1	97	0.00
30	C	Chloroform	50.000	49.490	1.0#	101	0.00
31	T	Cyclohexane	50.000	47.844	4.3	101	0.00
32	T	1,1,1-Trichloroethane	50.000	49.319	1.4	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.553	-5.1	105	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	54.243	-8.5	106	0.00
36	T	1,1-Dichloropropene	50.000	50.326	-0.7	101	0.00
37	T	Ethyl Acetate	50.000	49.145	1.7	99	0.00
38	T	Carbon Tetrachloride	50.000	49.814	0.4	102	0.00
39	T	Methylcyclohexane	50.000	51.843	-3.7	101	0.00
40	TM	Benzene	50.000	50.574	-1.1	102	0.00
41	T	Methacrylonitrile	50.000	47.475	5.0	88	-0.01
42	TM	1,2-Dichloroethane	50.000	49.556	0.9	101	0.00
43	T	Isopropyl Acetate	50.000	50.106	-0.2	100	0.00
44	TM	Trichloroethene	50.000	49.933	0.1	103	0.00
45	C	1,2-Dichloropropane	50.000	50.158	-0.3#	102	0.00
46	T	Dibromomethane	50.000	50.052	-0.1	104	0.00
47	T	Bromodichloromethane	50.000	50.530	-1.1	103	0.00
48	T	Methyl methacrylate	50.000	52.076	-4.2	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	1006.593	-0.7	100	0.00
50	S	Toluene-d8	50.000	55.117	-10.2	107	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.890	-1.2	99	0.00
52	CM	Toluene	50.000	51.555	-3.1#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	51.152	-2.3	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.154	-2.3	101	0.00
55	T	1,1,2-Trichloroethane	50.000	49.656	0.7	101	0.00
56	T	Ethyl methacrylate	50.000	54.371	-8.7	101	0.00
57	T	1,3-Dichloropropane	50.000	50.563	-1.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	276.714	-10.7	102	0.00
59	T	2-Hexanone	250.000	255.065	-2.0	98	0.00
60	T	Dibromochloromethane	50.000	50.679	-1.4	101	0.00
61	T	1,2-Dibromoethane	50.000	50.970	-1.9	100	0.00
62	S	4-Bromofluorobenzene	50.000	55.339	-10.7	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	47.757	4.5	98	0.00
65	PM	Chlorobenzene	50.000	50.384	-0.8	102	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.802	-1.6	102	0.00
67	C	Ethyl Benzene	50.000	52.346	-4.7#	102	0.00
68	T	m/p-Xylenes	100.000	105.402	-5.4	102	0.00
69	T	o-Xylene	50.000	53.075	-6.2	102	0.00
70	T	Styrene	50.000	53.627	-7.3	102	0.00
71	P	Bromoform	50.000	50.778	-1.6	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73	T	Isopropylbenzene	50.000	52.705	-5.4	102	0.00
74	T	N-amyl acetate	50.000	52.323	-4.6	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.266	1.5	100	0.00
76	T	1,2,3-Trichloropropane	50.000	42.688	14.6	84	0.00
77	T	Bromobenzene	50.000	51.125	-2.3	102	0.00
78	T	n-propylbenzene	50.000	53.182	-6.4	102	0.00
79	T	2-Chlorotoluene	50.000	51.671	-3.3	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.236	-6.5	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.488	1.0	95	0.00
82	T	4-Chlorotoluene	50.000	51.969	-3.9	101	0.00
83	T	tert-Butylbenzene	50.000	52.616	-5.2	101	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.454	-6.9	102	0.00
85	T	sec-Butylbenzene	50.000	52.471	-4.9	101	0.00
86	T	p-Isopropyltoluene	50.000	53.479	-7.0	101	0.00
87	T	1,3-Dichlorobenzene	50.000	50.987	-2.0	102	0.00
88	T	1,4-Dichlorobenzene	50.000	49.741	0.5	99	0.00
89	T	n-Butylbenzene	50.000	52.927	-5.9	100	0.00
90	T	Hexachloroethane	50.000	50.454	-0.9	102	0.00
91	T	1,2-Dichlorobenzene	50.000	50.346	-0.7	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.476	3.0	98	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.429	-2.9	97	0.00
94	T	Hexachlorobutadiene	50.000	50.245	-0.5	99	0.00
95	T	Naphthalene	50.000	51.759	-3.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021663.D
Acq On : 27 Mar 2025 13:15
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY032725

Quant Time: Mar 28 03:48:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	50.640	-1.3	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: MSVOA_Y Calibration Date/Time: 03/28/2025 10:42

Lab File ID: VY021682.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.530		2.32	20
Chloromethane	0.729	0.818	0.1	12.21	20
Vinyl Chloride	0.824	0.916		11.16	20
Bromomethane	0.562	0.598		6.41	20
Chloroethane	0.539	0.606		12.43	20
Trichlorofluoromethane	1.056	1.189		12.6	20
1,1,2-Trichlorotrifluoroethane	0.557	0.578		3.77	20
1,1-Dichloroethene	0.524	0.560		6.87	20
Acetone	0.111	0.101		-9.01	20
Carbon Disulfide	1.727	1.890		9.44	20
Methyl tert-butyl Ether	1.306	1.429		9.42	20
Methyl Acetate	0.275	0.325		18.18	20
Methylene Chloride	0.626	0.628		0.32	20
trans-1,2-Dichloroethene	0.577	0.638		10.57	20
1,1-Dichloroethane	1.049	1.156	0.1	10.2	20
Cyclohexane	0.956	0.986		3.14	20
2-Butanone	0.158	0.168		6.33	20
Carbon Tetrachloride	0.566	0.608		7.42	20
cis-1,2-Dichloroethene	0.649	0.724		11.56	20
Bromochloromethane	0.442	0.496		12.22	20
Chloroform	1.091	1.205		10.45	20
1,1,1-Trichloroethane	0.986	1.064		7.91	20
Methylcyclohexane	0.590	0.632		7.12	20
Benzene	1.479	1.639		10.82	20
1,2-Dichloroethane	0.417	0.451		8.15	20
Trichloroethene	0.377	0.401		6.37	20
1,2-Dichloropropane	0.350	0.389		11.14	20
Bromodichloromethane	0.523	0.575		9.94	20
4-Methyl-2-Pentanone	0.230	0.259		12.61	20
Toluene	0.923	1.039		12.57	20
t-1,3-Dichloropropene	0.465	0.520		11.83	20
cis-1,3-Dichloropropene	0.548	0.601		9.67	20
1,1,2-Trichloroethane	0.260	0.287		10.39	20
2-Hexanone	0.153	0.174		13.73	20
Dibromochloromethane	0.355	0.395		11.27	20
1,2-Dibromoethane	0.244	0.268		9.84	20
Tetrachloroethene	0.455	0.464		1.98	20
Chlorobenzene	1.146	1.234	0.3	7.68	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: MSVOA_Y Calibration Date/Time: 03/28/2025 10:42

Lab File ID: VY021682.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.965	2.191		11.5	20
m/p-Xylenes	0.753	0.844		12.09	20
o-Xylene	0.695	0.781		12.37	20
Styrene	1.158	1.332		15.03	20
Bromoform	0.232	0.258	0.1	11.21	20
Isopropylbenzene	3.714	4.065		9.45	20
1,1,2,2-Tetrachloroethane	0.668	0.704	0.3	5.39	20
1,3-Dichlorobenzene	1.757	1.877		6.83	20
1,4-Dichlorobenzene	1.736	1.863		7.32	20
1,2-Dichlorobenzene	1.529	1.661		8.63	20
1,2-Dibromo-3-Chloropropane	0.103	0.106		2.91	20
1,2,4-Trichlorobenzene	0.829	0.880		6.15	20
1,2,3-Trichlorobenzene	0.707	0.766		8.35	20
1,2-Dichloroethane-d4	0.542	0.600		10.7	20
Dibromofluoromethane	0.324	0.359		10.8	20
Toluene-d8	1.234	1.374		11.35	20
4-Bromofluorobenzene	0.417	0.467		11.99	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	207038	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	329996	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	297102	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	151090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	124192	55.364	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.720%			
35) Dibromofluoromethane	7.634	113	118517	55.365	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.740%			
50) Toluene-d8	10.103	98	453542	55.693	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 111.380%			
62) 4-Bromofluorobenzene	12.408	95	154098	55.943	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 111.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	109809	51.172	ug/l	98
3) Chloromethane	2.068	50	169294	56.105	ug/l	99
4) Vinyl Chloride	2.202	62	189598	55.561	ug/l	100
5) Bromomethane	2.592	94	123898	53.234	ug/l	94
6) Chloroethane	2.733	64	125527	56.216	ug/l	99
7) Trichlorofluoromethane	3.056	101	246236	56.329	ug/l	96
8) Diethyl Ether	3.452	74	60717	51.075	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	119672	51.906	ug/l	99
10) Methyl Iodide	4.001	142	143093	56.574	ug/l	99
11) Tert butyl alcohol	4.854	59	36916	253.367	ug/l	100
12) 1,1-Dichloroethene	3.787	96	115949	53.393	ug/l	94
13) Acrolein	3.647	56	63440	238.457	ug/l	98
14) Allyl chloride	4.385	41	188500	54.441	ug/l	98
15) Acrylonitrile	5.049	53	137218	276.449	ug/l	99
16) Acetone	3.860	43	104592	227.823	ug/l	99
17) Carbon Disulfide	4.104	76	391341	54.712	ug/l	98
18) Methyl Acetate	4.385	43	67250	59.104	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	295942	54.737	ug/l	98
20) Methylene Chloride	4.610	84	129983	58.520	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	132113	55.253	ug/l	96
22) Diisopropyl ether	6.012	45	413432	56.920	ug/l	99
23) Vinyl Acetate	5.958	43	1188514	279.709	ug/l	99
24) 1,1-Dichloroethane	5.915	63	239377	55.116	ug/l	99
25) 2-Butanone	6.890	43	173603	264.748	ug/l	97
26) 2,2-Dichloropropane	6.884	77	206630	53.485	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	149919	55.755	ug/l	99
28) Bromochloromethane	7.244	49	102693	56.065	ug/l	99
29) Tetrahydrofuran	7.256	42	117791	279.112	ug/l	99
30) Chloroform	7.415	83	249427	55.216	ug/l	99
31) Cyclohexane	7.695	56	204076	51.546	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	220282	53.954	ug/l	99
36) 1,1-Dichloropropene	7.829	75	176871	54.246	ug/l	99
37) Ethyl Acetate	6.976	43	82837	53.833	ug/l	98
38) Carbon Tetrachloride	7.817	117	200576	53.710	ug/l	100
39) Methylcyclohexane	9.109	83	208666	53.572	ug/l	99
40) Benzene	8.073	78	540985	55.404	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	40336	49.359	ug/l	#	100
42) 1,2-Dichloroethane	8.152	62	148955	54.112	ug/l		99
43) Isopropyl Acetate	8.195	43	156172	53.555	ug/l		98
44) Trichloroethene	8.859	130	132362	53.202	ug/l		97
45) 1,2-Dichloropropane	9.140	63	128300	55.510	ug/l		99
46) Dibromomethane	9.231	93	73338	55.056	ug/l		98
47) Bromodichloromethane	9.420	83	189589	54.928	ug/l		99
48) Methyl methacrylate	9.219	41	76952	57.497	ug/l		96
49) 1,4-Dioxane	9.225	88	16139	1130.995	ug/l		90
51) 4-Methyl-2-Pentanone	9.993	43	427715	281.850	ug/l		100
52) Toluene	10.170	92	342904	56.286	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	171485	55.935	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	198200	54.800	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	94766	55.283	ug/l		97
56) Ethyl methacrylate	10.438	69	125088	57.148	ug/l		99
57) 1,3-Dichloropropane	10.713	76	164067	55.418	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	302761	283.541	ug/l		100
59) 2-Hexanone	10.762	43	287407	284.379	ug/l		100
60) Dibromochloromethane	10.908	129	130245	55.650	ug/l		100
61) 1,2-Dibromoethane	11.012	107	88530	55.054	ug/l		99
64) Tetrachloroethene	10.646	164	137772	50.915	ug/l		97
65) Chlorobenzene	11.438	112	366751	53.850	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	130891	54.168	ug/l		99
67) Ethyl Benzene	11.518	91	650861	55.731	ug/l		98
68) m/p-Xylenes	11.627	106	501735	112.193	ug/l		100
69) o-Xylene	11.950	106	231932	56.184	ug/l		99
70) Styrene	11.969	104	395829	57.510	ug/l		99
71) Bromoform	12.133	173	76504	55.504	ug/l	#	99
73) Isopropylbenzene	12.255	105	614195	54.731	ug/l		99
74) N-amyl acetate	12.072	43	142513	54.111	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	106395	52.733	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	78446m	52.378	ug/l		
77) Bromobenzene	12.530	156	145466	53.988	ug/l		99
78) n-propylbenzene	12.597	91	745971	55.292	ug/l		100
79) 2-Chlorotoluene	12.676	91	426370	54.411	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	510087	55.616	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	34191	52.602	ug/l		98
82) 4-Chlorotoluene	12.773	91	438952	53.730	ug/l		99
83) tert-Butylbenzene	12.999	119	447431	54.771	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	512202	56.504	ug/l		99
85) sec-Butylbenzene	13.176	105	653760	54.761	ug/l		100
86) p-Isopropyltoluene	13.292	119	546596	55.395	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	283551	53.415	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	281544	53.681	ug/l		99
89) n-Butylbenzene	13.615	91	498481	54.626	ug/l		100
90) Hexachloroethane	13.877	117	113745	52.605	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	250892	54.293	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	16002	51.172	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	132935	53.047	ug/l		99
94) Hexachlorobutadiene	15.023	225	81130	51.838	ug/l		99
95) Naphthalene	15.145	128	233754	56.275	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	115735	54.158	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

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

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

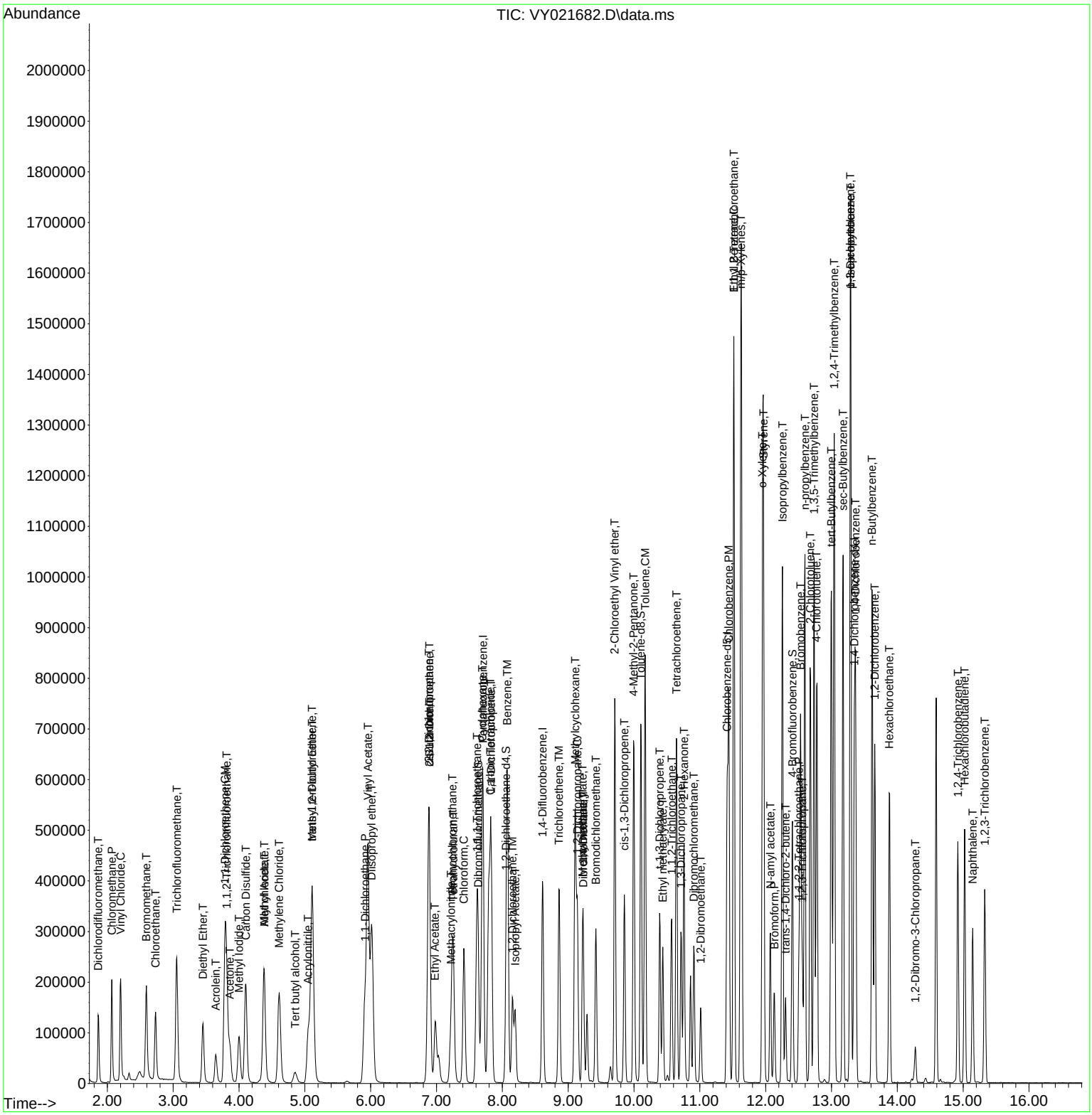
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

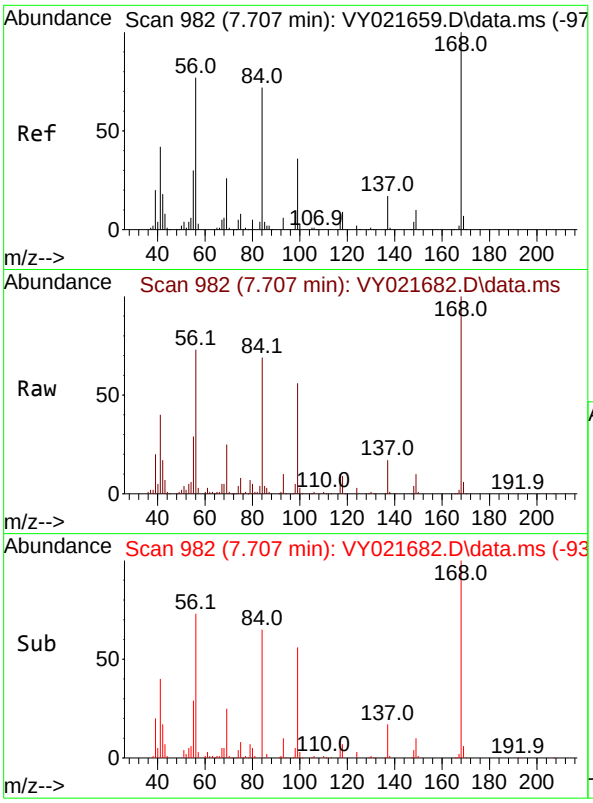
Quant Time: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

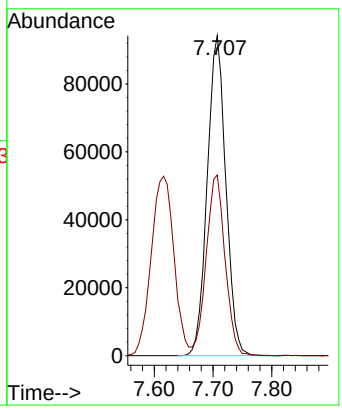




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:168 Resp: 20703

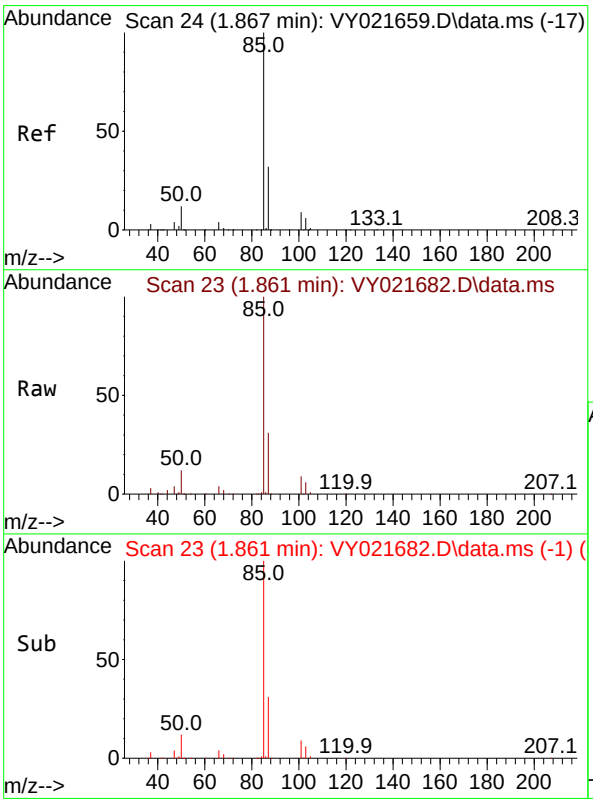
Ion	Ratio	Lower	Upper
168	100		
99	56.4	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

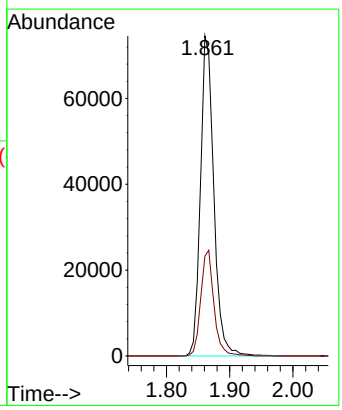
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

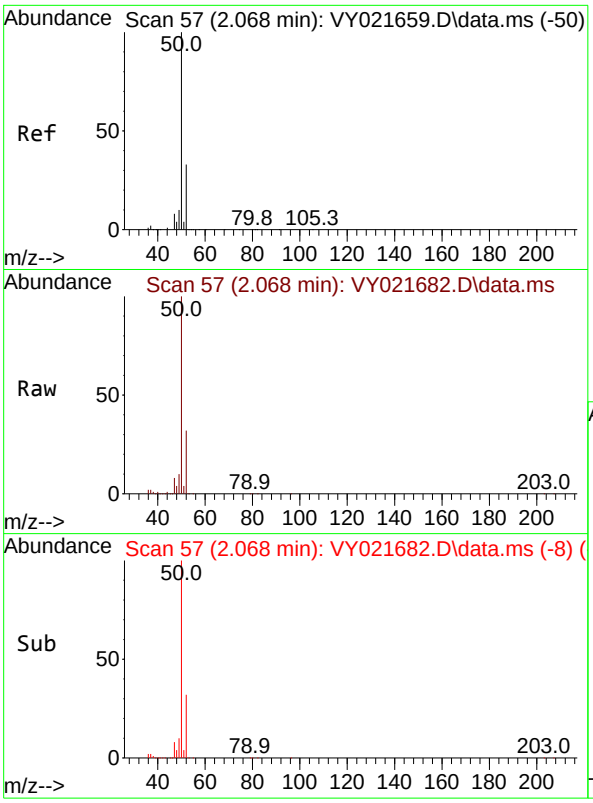


#2
Dichlorodifluoromethane
Concen: 51.172 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 85 Resp: 109809

Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.2	48.6

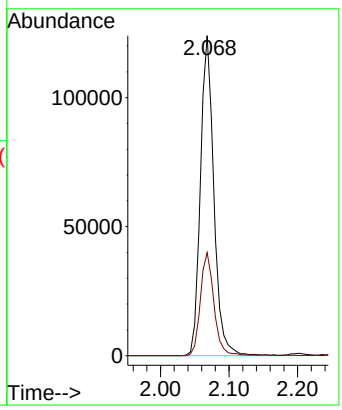




#3
Chloromethane
Concen: 56.105 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 50 Resp: 16929

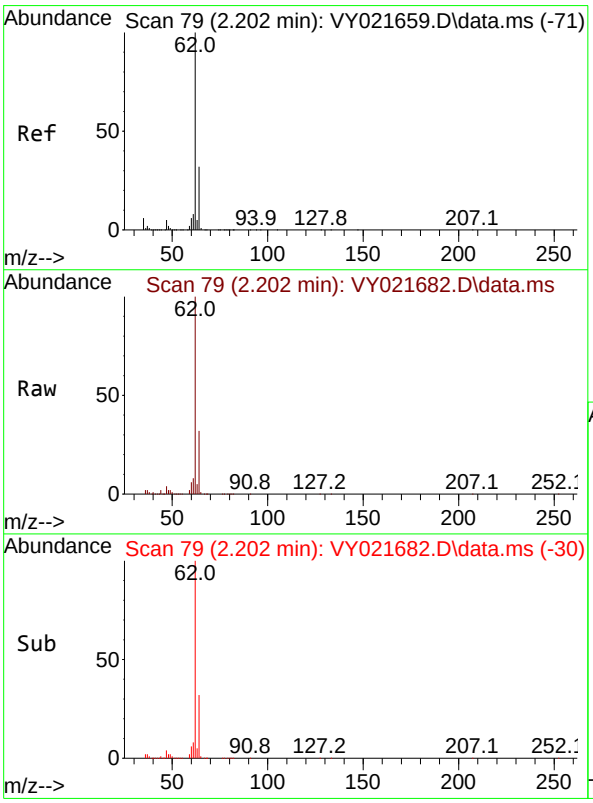
Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

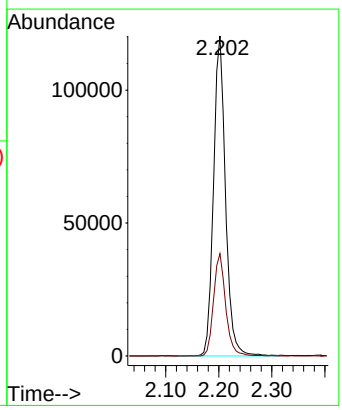
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

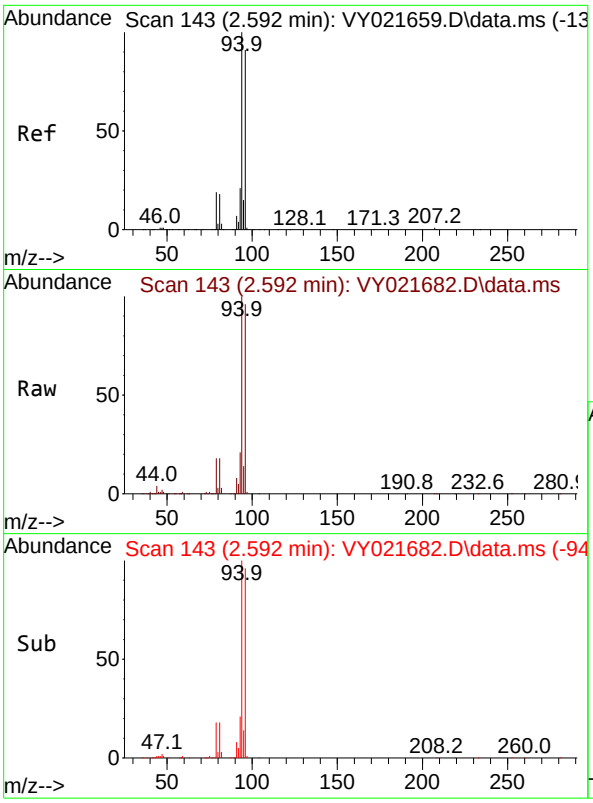


#4
Vinyl Chloride
Concen: 55.561 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 62 Resp: 189598

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.5	38.3

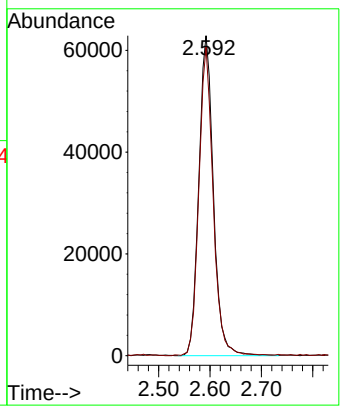




#5
Bromomethane
Concen: 53.234 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 94 Resp: 12389

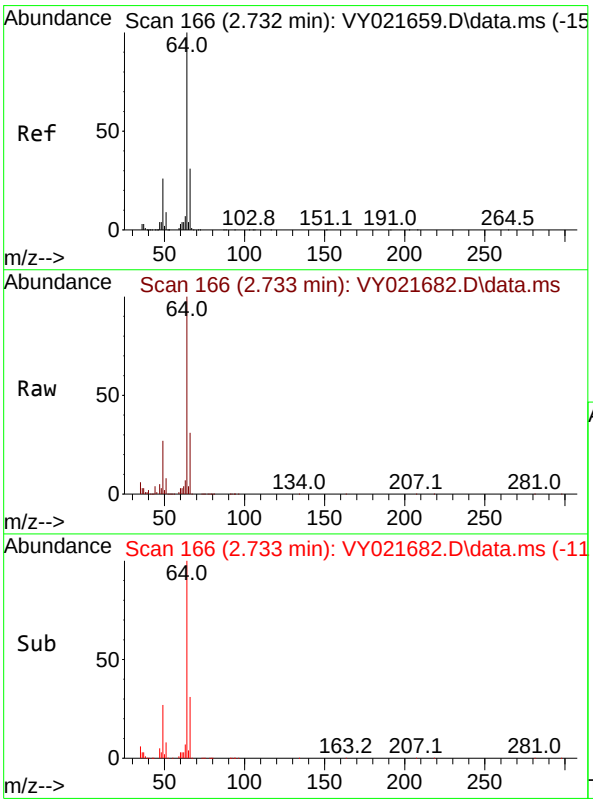
Ion	Ratio	Lower	Upper
94	100		
96	96.3	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

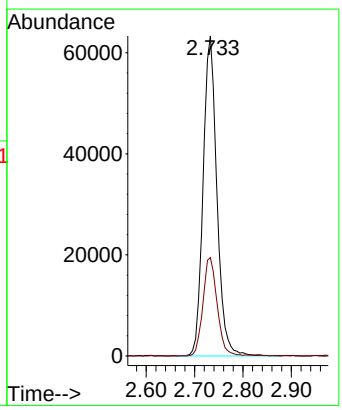
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

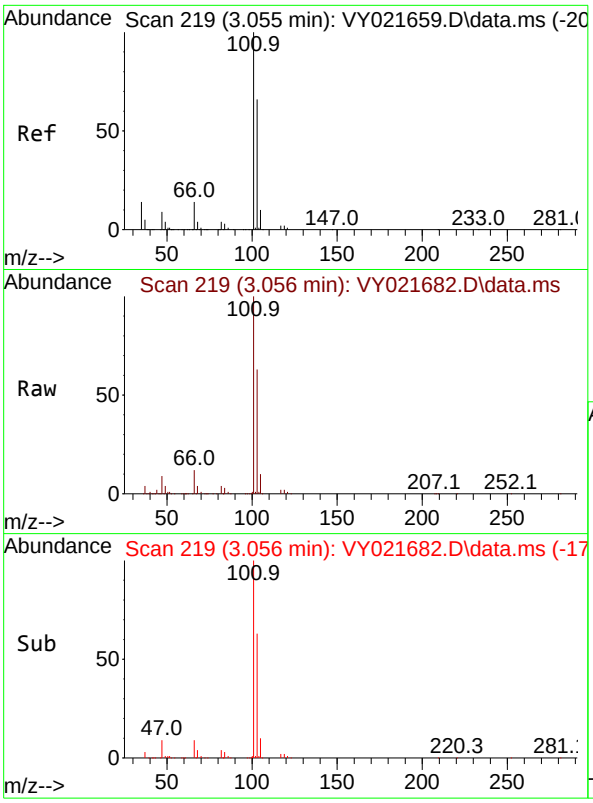


#6
Chloroethane
Concen: 56.216 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 64 Resp: 125527

Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.9	37.3





#7
Trichlorofluoromethane
Concen: 56.329 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

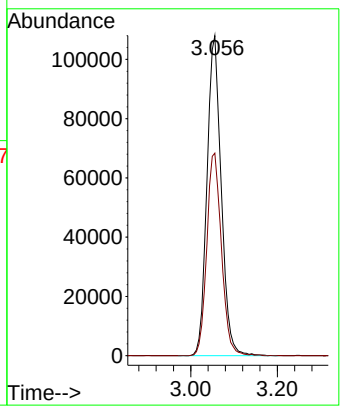
Tgt Ion:101 Resp: 24623(

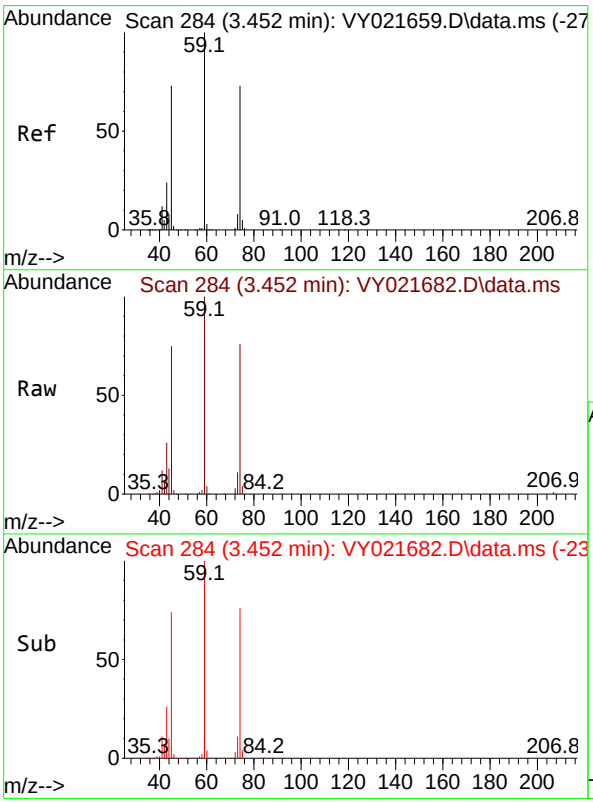
Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.1	79.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

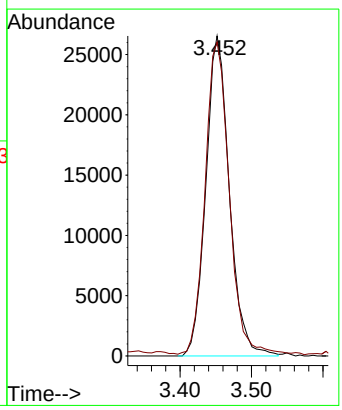


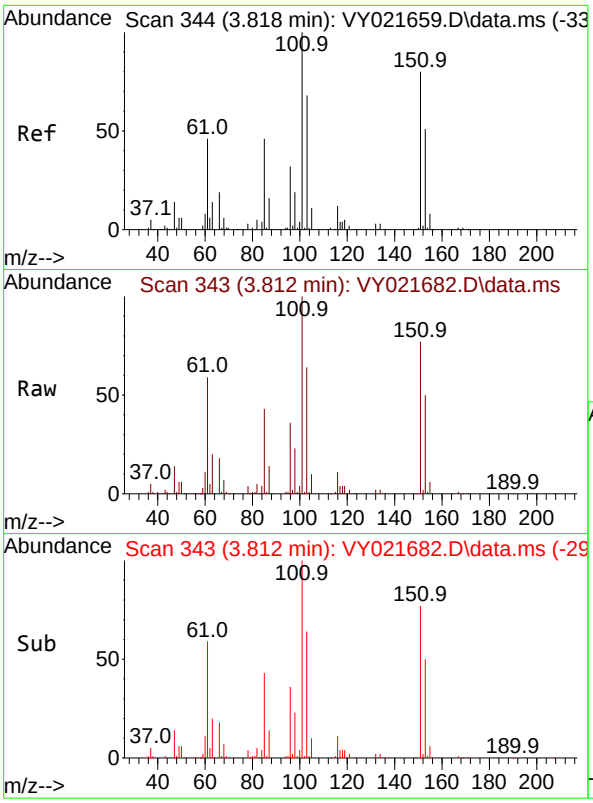


#8
Diethyl Ether
Concen: 51.075 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 74 Resp: 60717

Ion	Ratio	Lower	Upper
74	100		
45	100.3	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.906 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

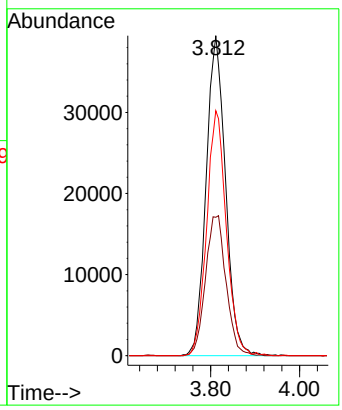
Tgt Ion:101 Resp: 11967

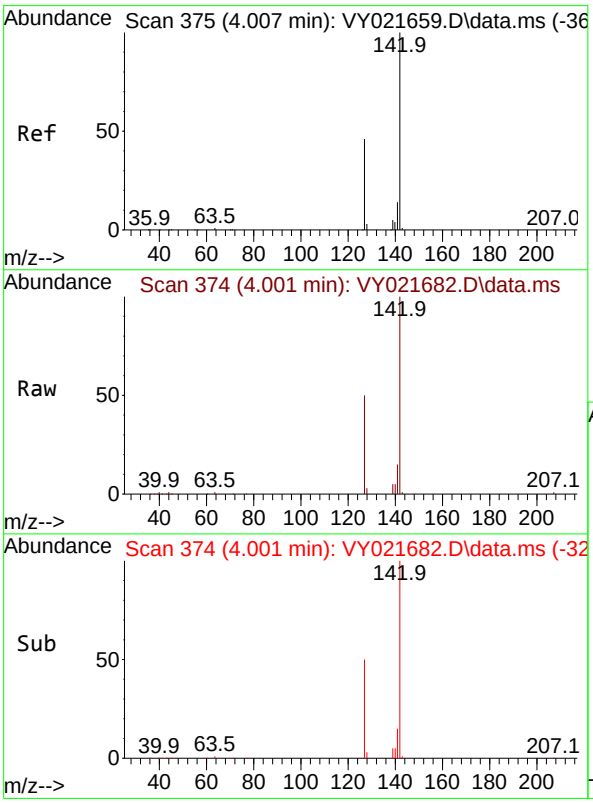
Ion	Ratio	Lower	Upper
101	100		
85	46.4	36.3	54.5
151	77.2	61.3	91.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

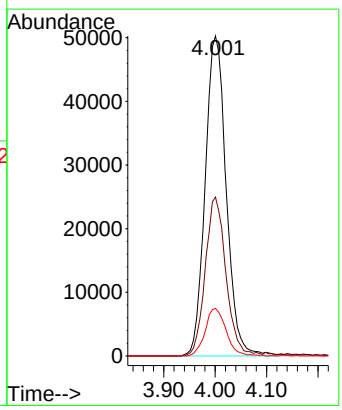


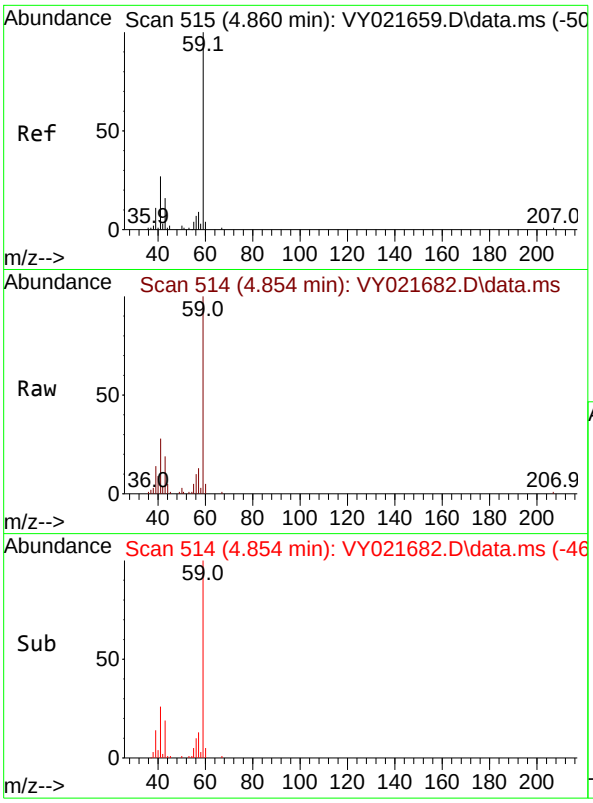


#10
Methyl Iodide
Concen: 56.574 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:142 Resp: 143093

Ion	Ratio	Lower	Upper
142	100		
127	48.9	38.7	58.1
141	14.8	11.5	17.3

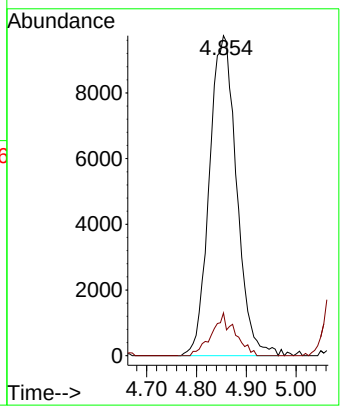




#11
Tert butyl alcohol
Concen: 253.367 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 59 Resp: 3691

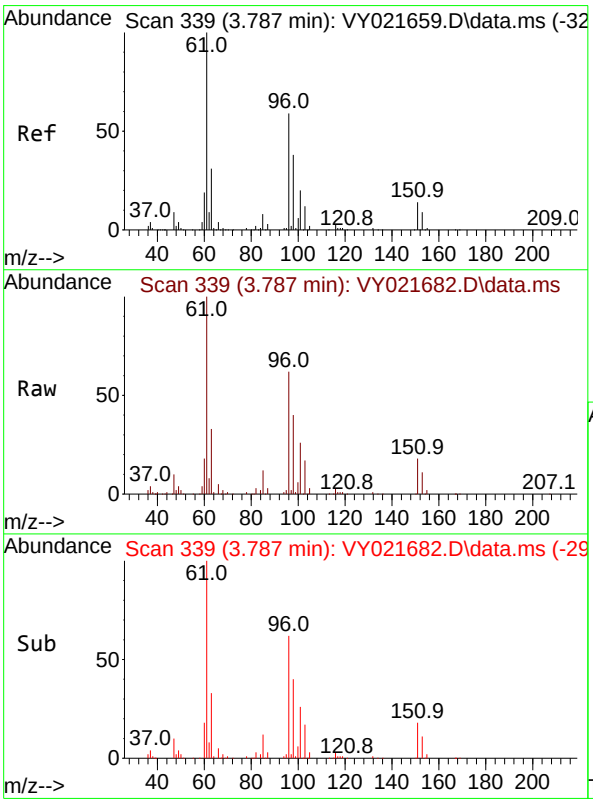
Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

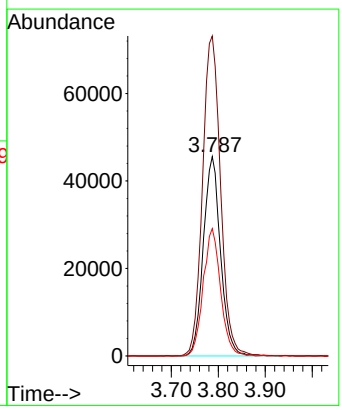
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

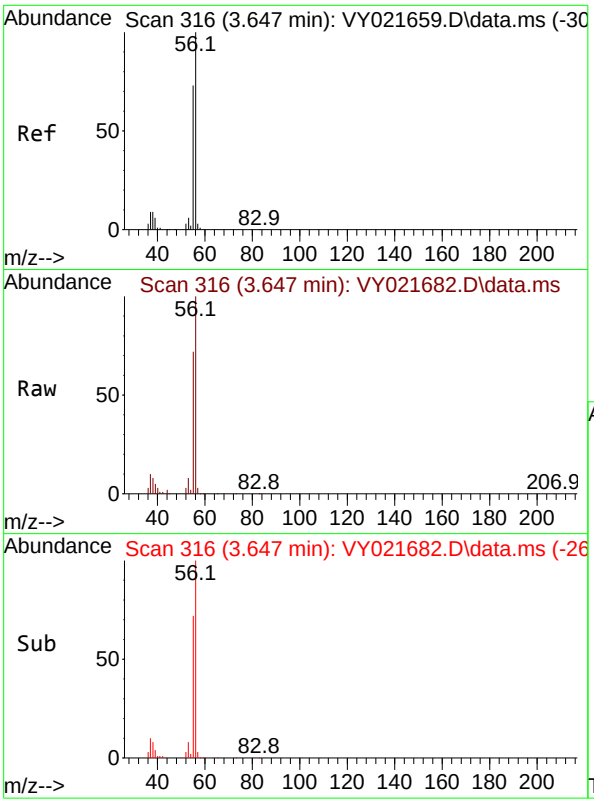


#12
1,1-Dichloroethene
Concen: 53.393 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 96 Resp: 115949

Ion	Ratio	Lower	Upper
96	100		
61	160.3	136.6	204.8
98	63.9	52.3	78.5

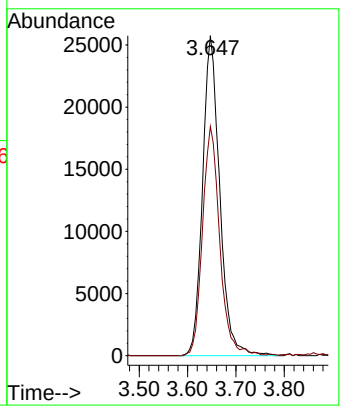




#13
Acrolein
Concen: 238.457 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 56 Resp: 6344

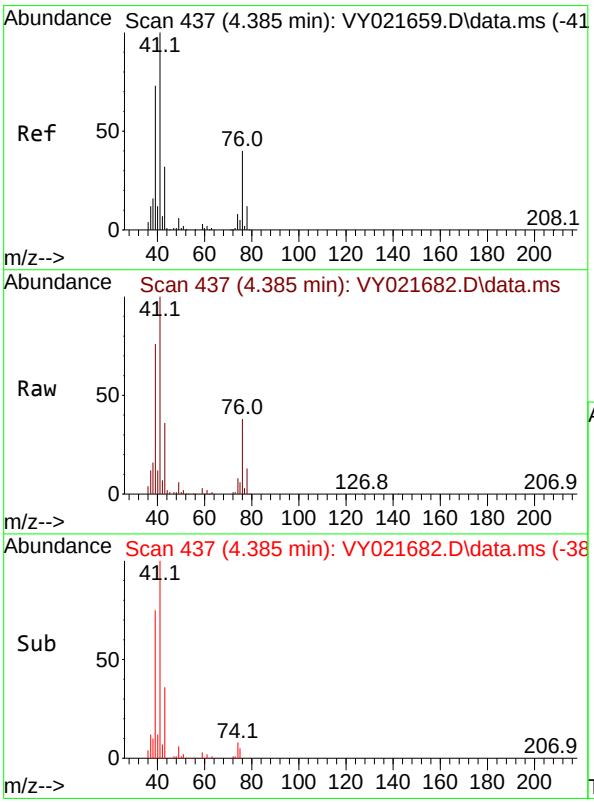
Ion	Ratio	Lower	Upper
56	100		
55	72.1	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

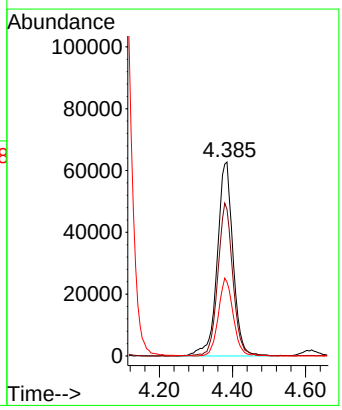
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

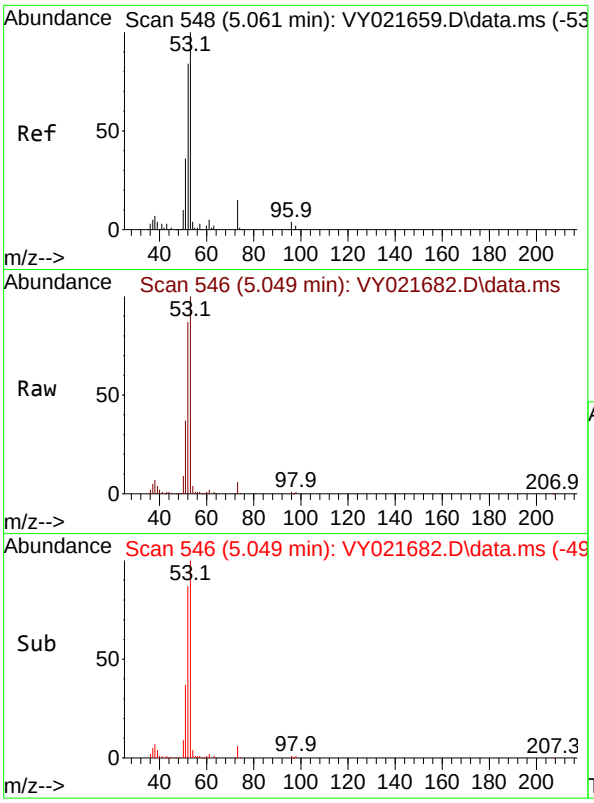


#14
Allyl chloride
Concen: 54.441 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 41 Resp: 188500

Ion	Ratio	Lower	Upper
41	100		
39	75.1	58.6	88.0
76	37.7	30.3	45.5





#15
Acrylonitrile
Concen: 276.449 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

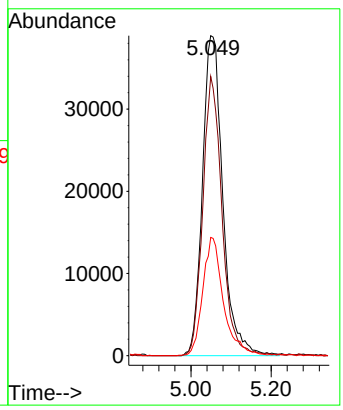
Tgt Ion: 53 Resp: 13721

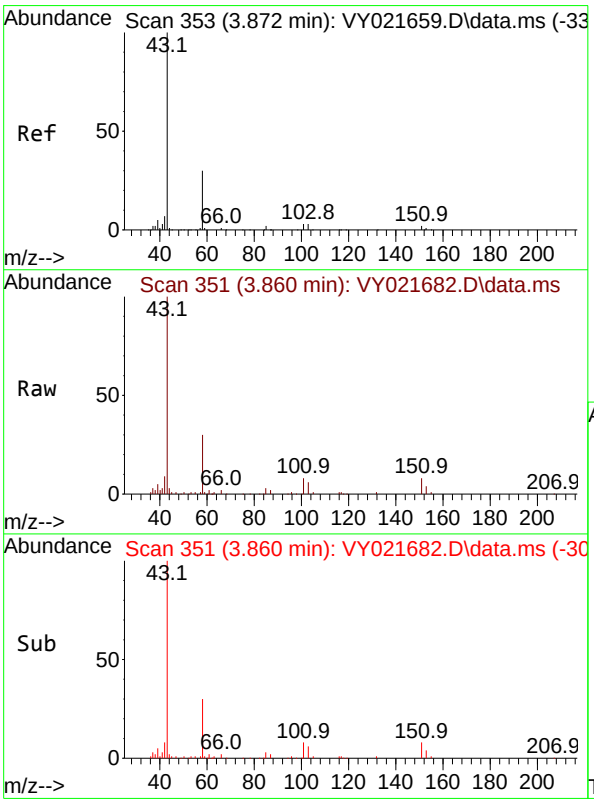
Ion	Ratio	Lower	Upper
53	100		
52	82.1	64.9	97.3
51	37.6	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

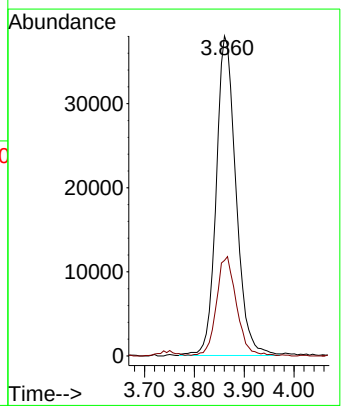


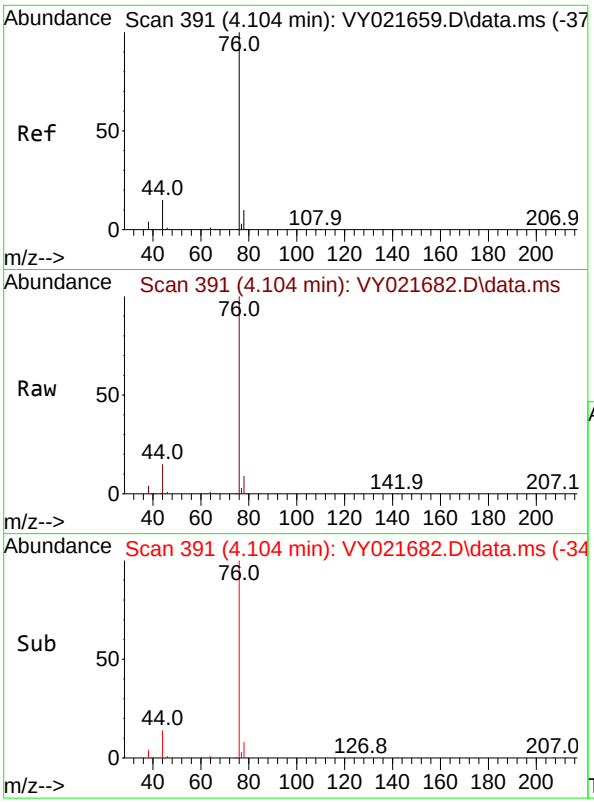


#16
Acetone
Concen: 227.823 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.012 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 43 Resp: 104592

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4

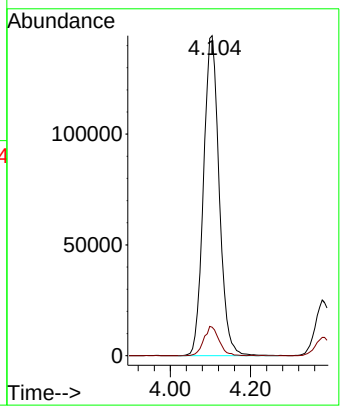




#17
Carbon Disulfide
Concen: 54.712 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 76 Resp: 39134

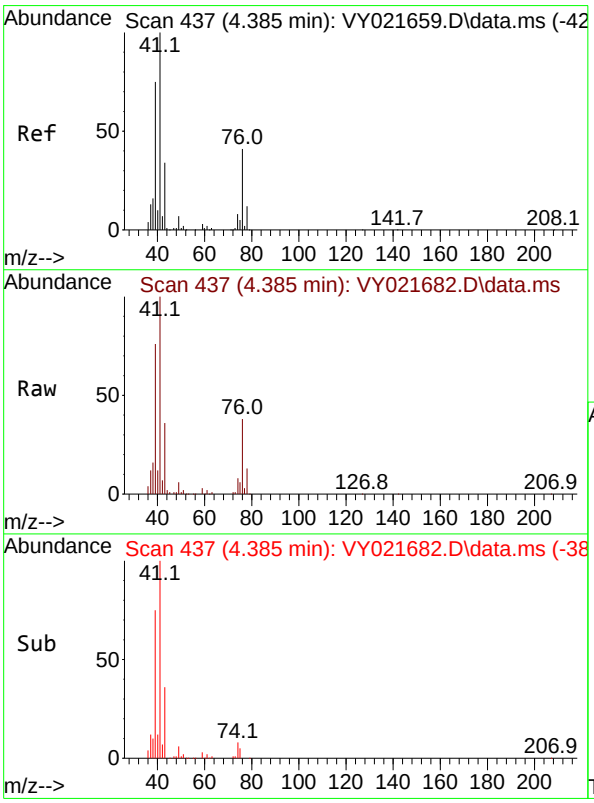
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

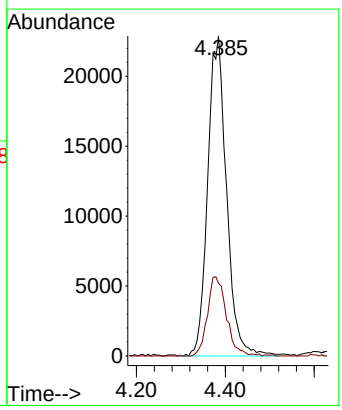
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

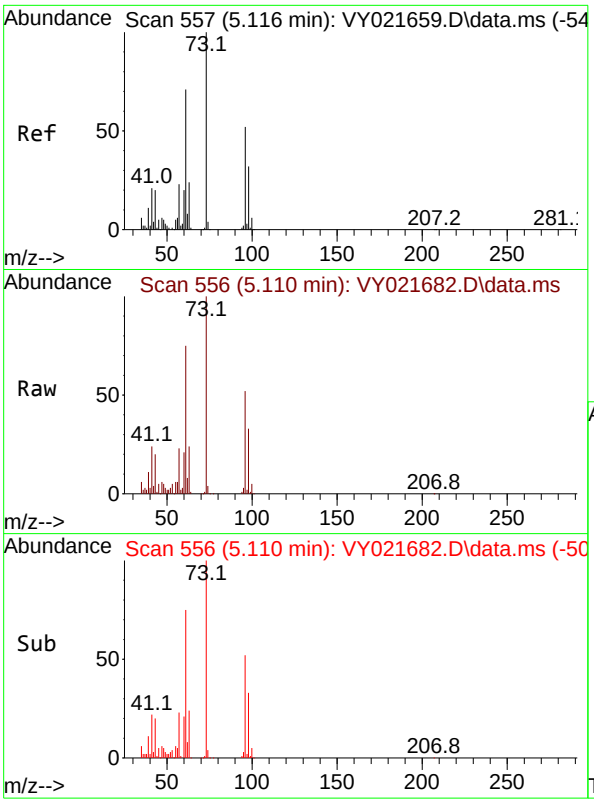


#18
Methyl Acetate
Concen: 59.104 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 43 Resp: 67250

Ion	Ratio	Lower	Upper
43	100		
74	24.7	19.1	28.7

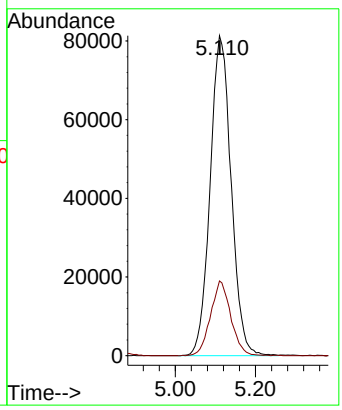




#19
Methyl tert-butyl Ether
Concen: 54.737 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 73 Resp: 29594

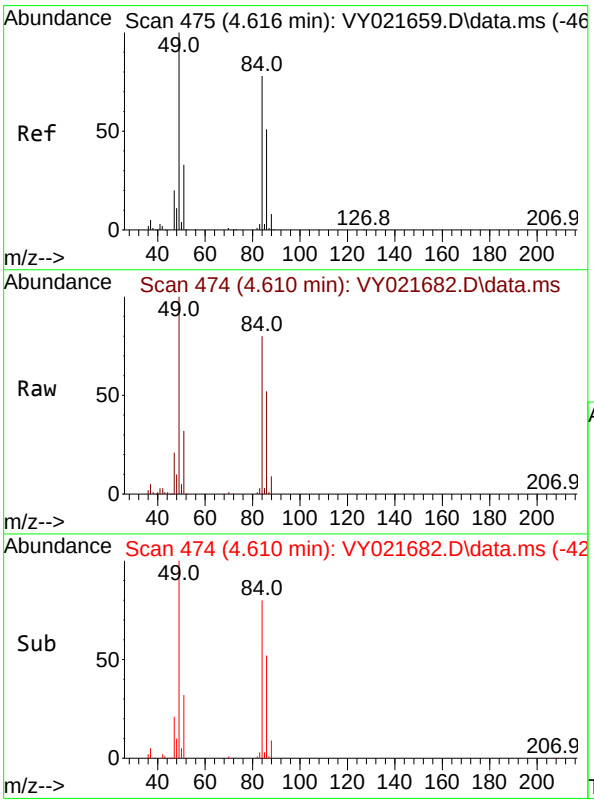
Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

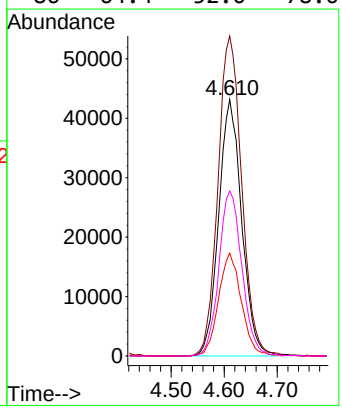
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

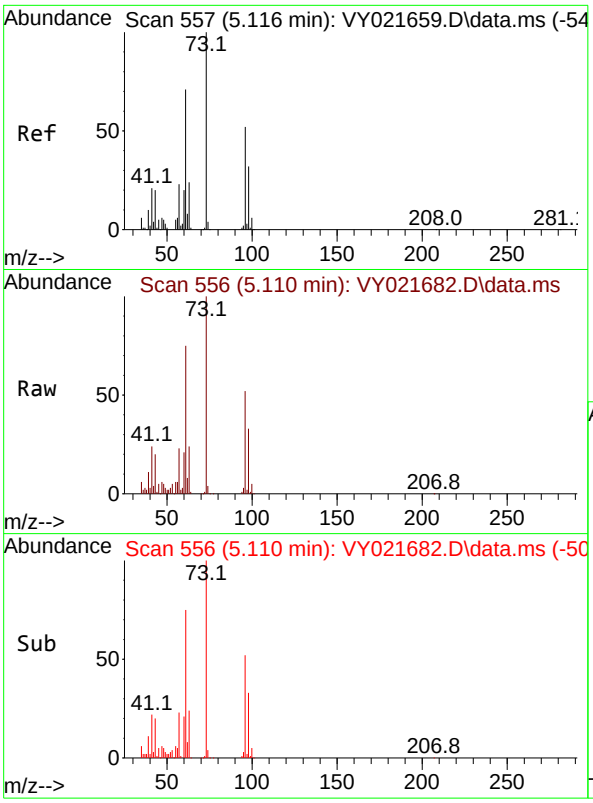


#20
Methylene Chloride
Concen: 58.520 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 84 Resp: 129983

Ion	Ratio	Lower	Upper
84	100		
49	124.8	102.8	154.2
51	40.1	33.5	50.3
86	64.4	52.0	78.0





#21
trans-1,2-Dichloroethene
Concen: 55.253 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

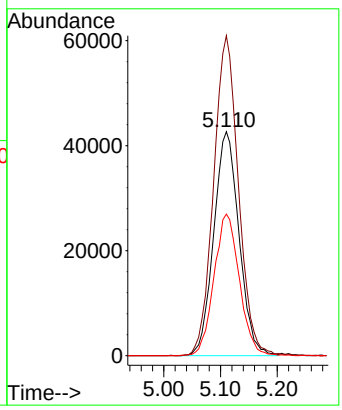
Tgt Ion: 96 Resp: 13211

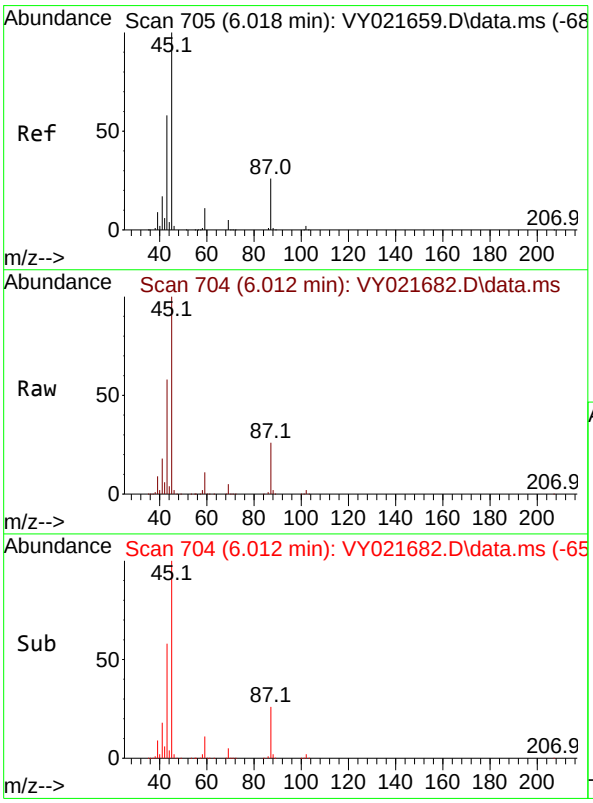
Ion	Ratio	Lower	Upper
96	100		
61	142.8	109.4	164.0
98	63.2	50.2	75.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

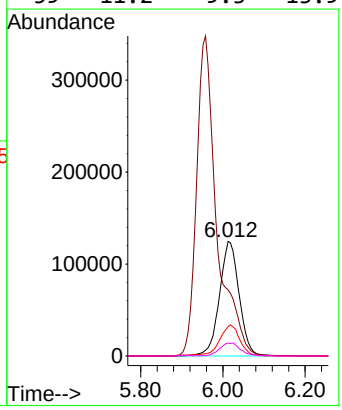


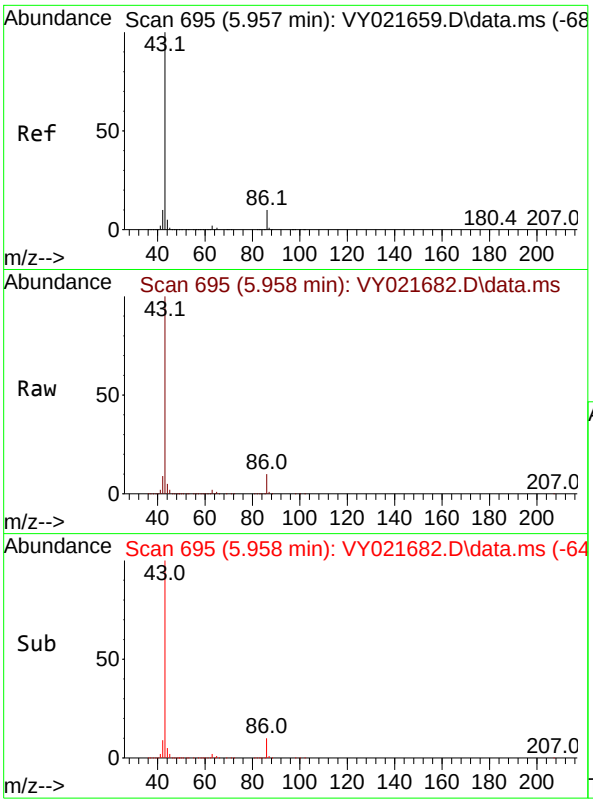


#22
Diisopropyl ether
Concen: 56.920 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 45 Resp: 413432

Ion	Ratio	Lower	Upper
45	100		
43	57.4	46.6	69.8
87	25.6	20.7	31.1
59	11.2	9.3	13.9

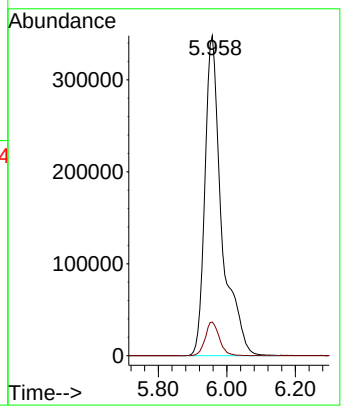




#23
Vinyl Acetate
Concen: 279.709 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 43 Resp: 118851

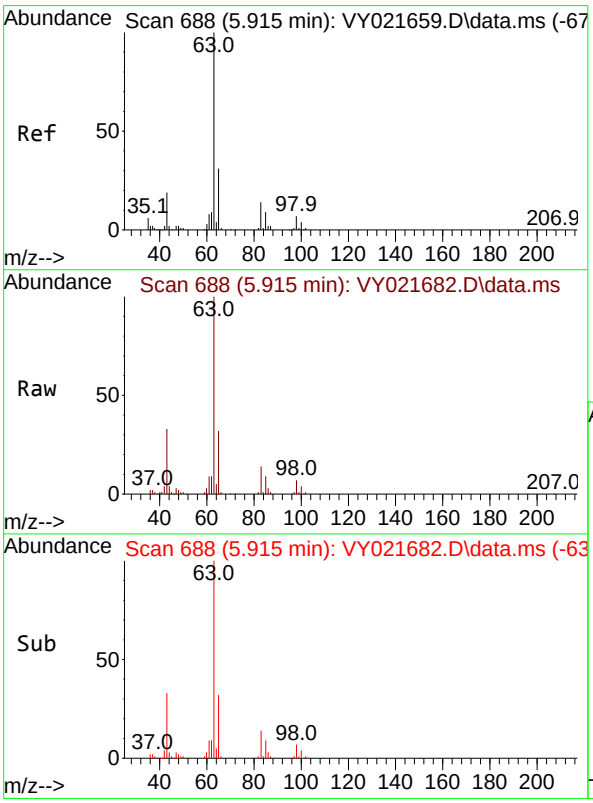
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

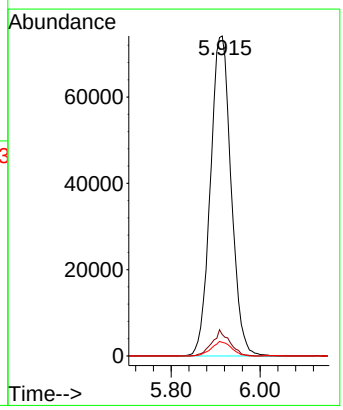
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

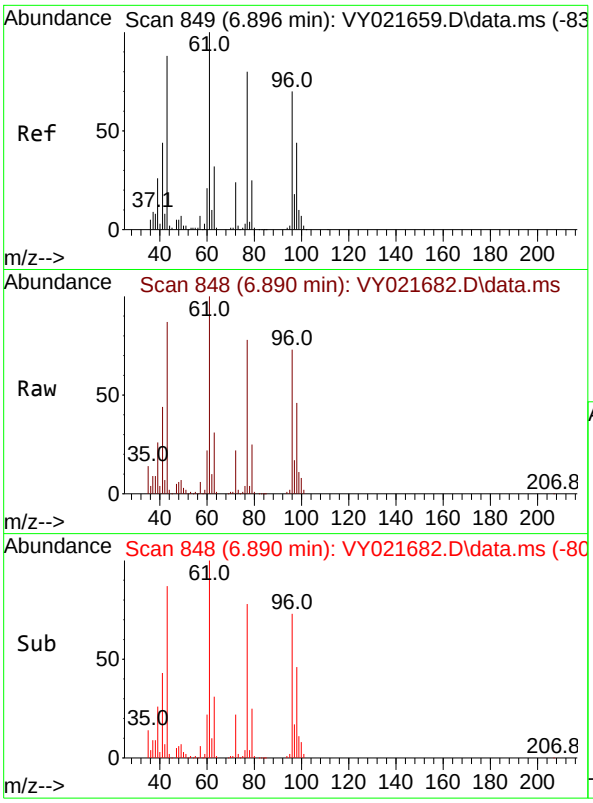


#24
1,1-Dichloroethane
Concen: 55.116 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 63 Resp: 239377

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.3	2.2	6.6





#25
2-Butanone
Concen: 264.748 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

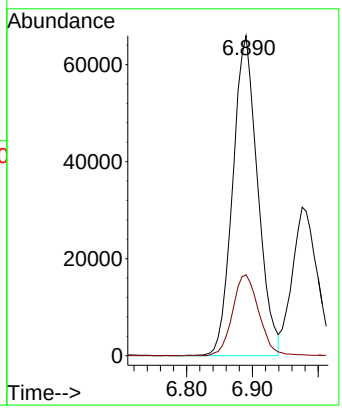
Tgt Ion: 43 Resp: 17360

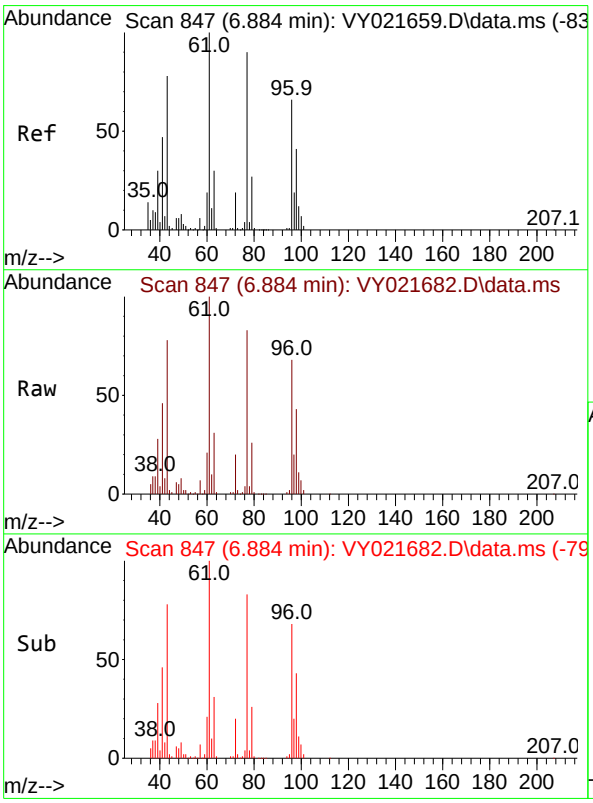
Ion	Ratio	Lower	Upper
43	100		
72	25.3	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

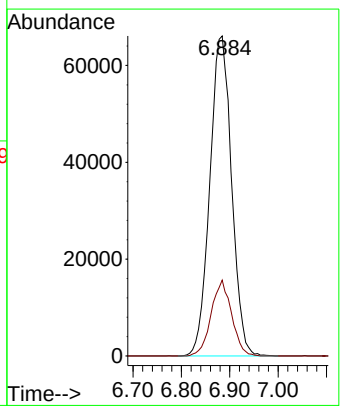


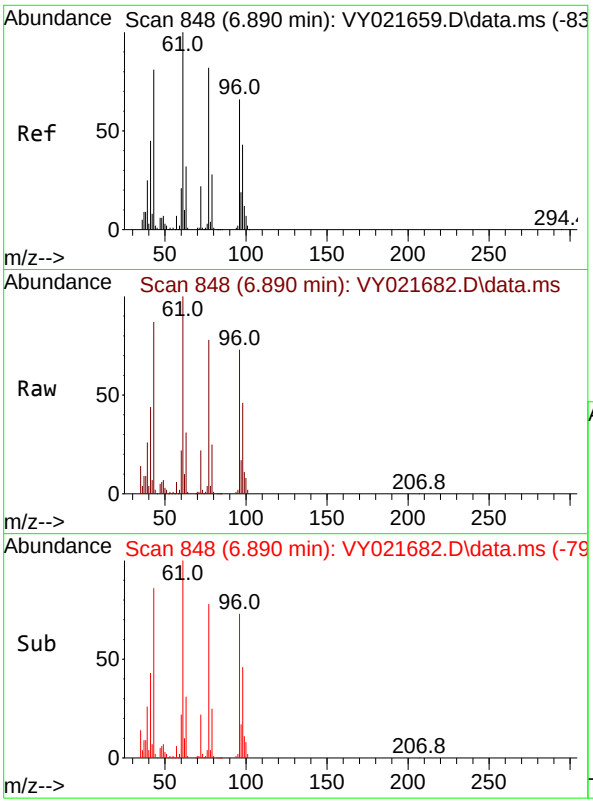


#26
2,2-Dichloropropane
Concen: 53.485 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 77 Resp: 206630

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.1	33.1





#27
cis-1,2-Dichloroethene
Concen: 55.755 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

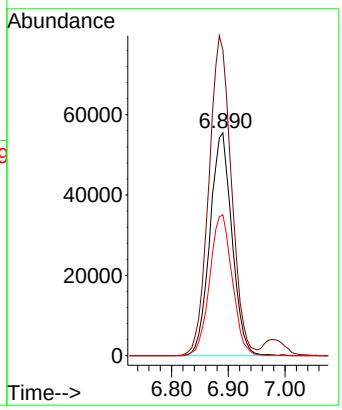
Tgt Ion: 96 Resp: 14991

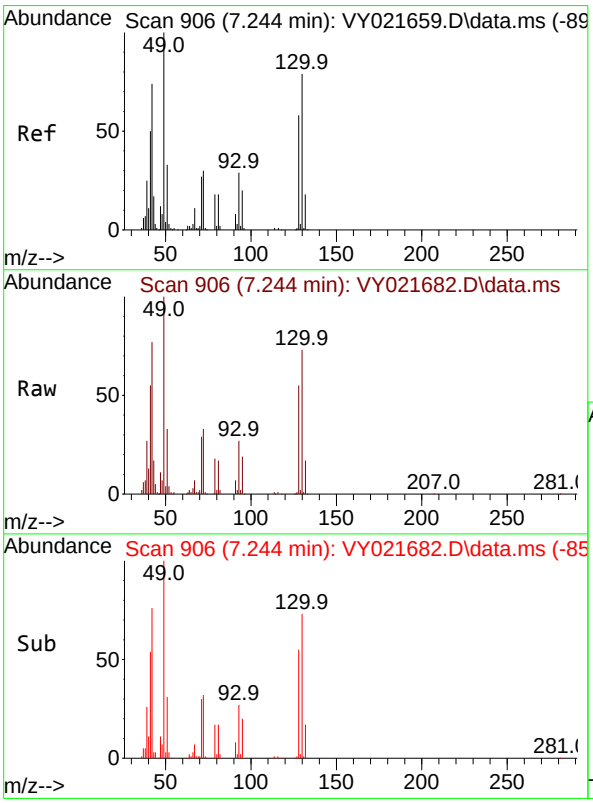
Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	296.4
98	64.5	0.0	128.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

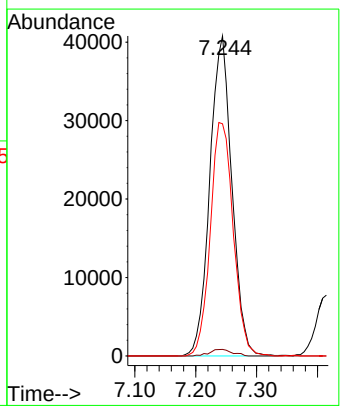


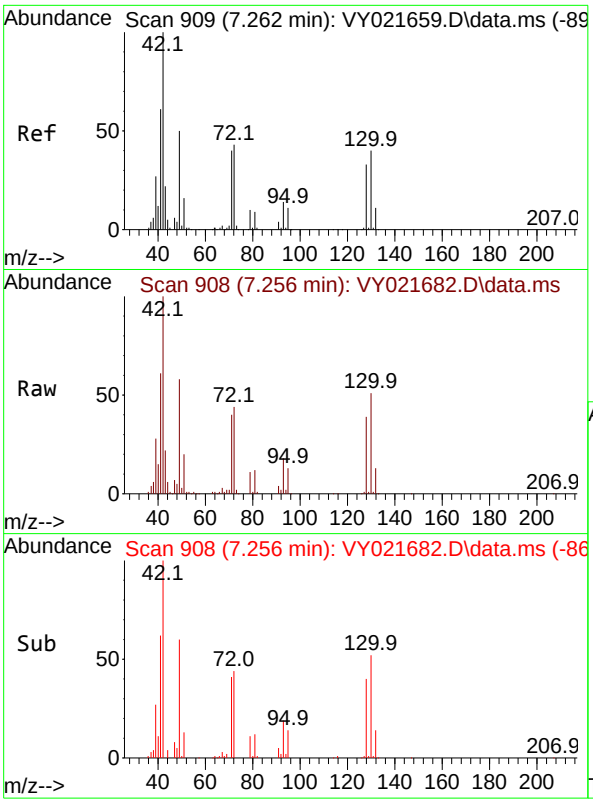


#28
Bromochloromethane
Concen: 56.065 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 49 Resp: 102693

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	75.7	60.1	90.1

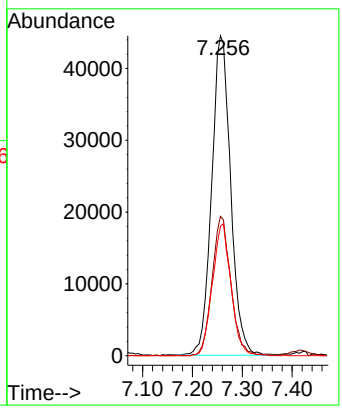




#29
Tetrahydrofuran
Concen: 279.112 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 42 Resp: 11779

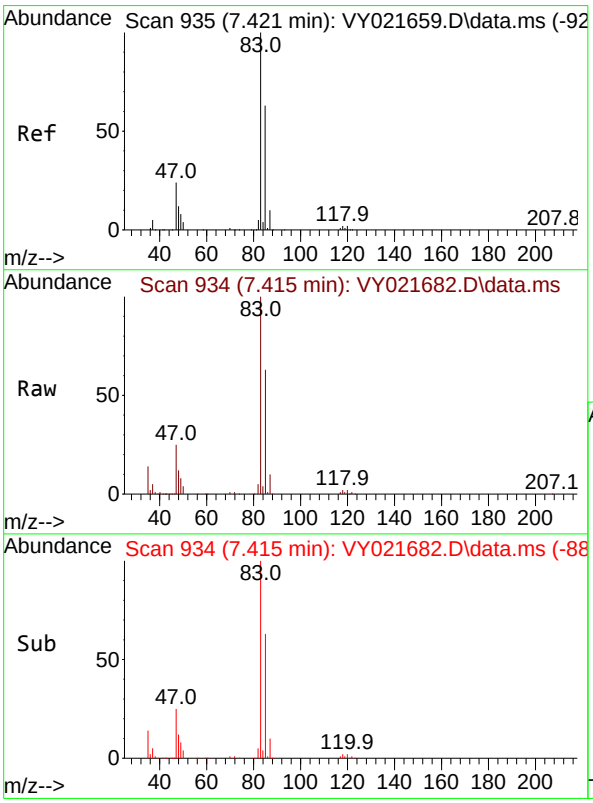
Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.6	52.0
71	40.4	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

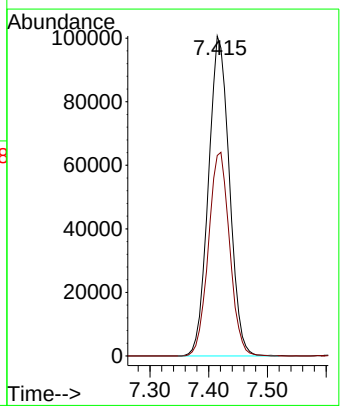
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

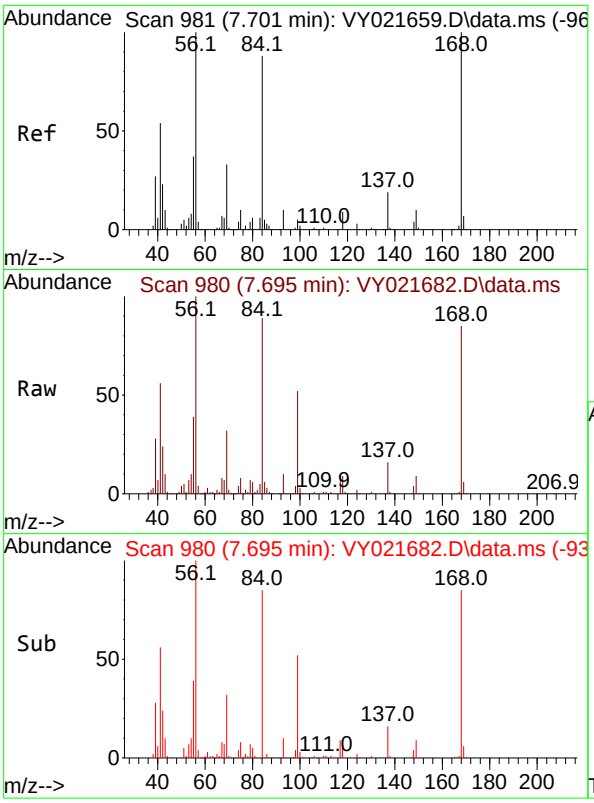


#30
Chloroform
Concen: 55.216 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 83 Resp: 249427

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.6	75.8

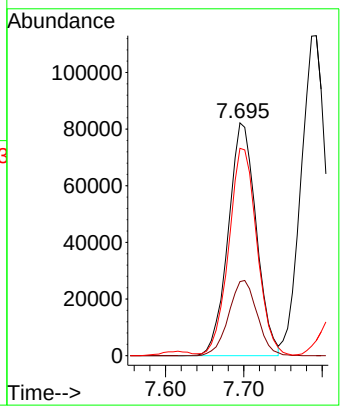




#31
Cyclohexane
Concen: 51.546 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 56 Resp: 20407

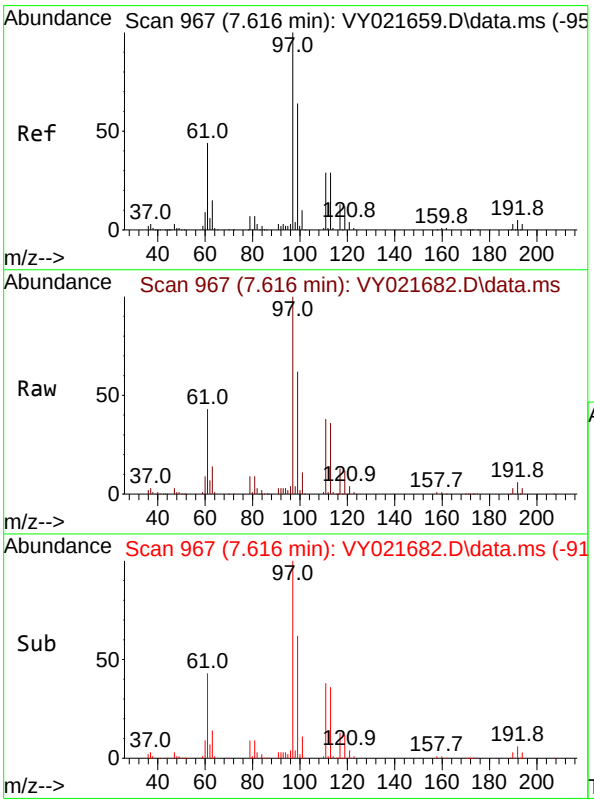
Ion	Ratio	Lower	Upper
56	100		
69	31.9	26.6	40.0
84	87.2	69.0	103.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

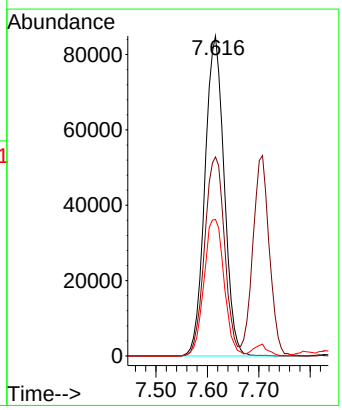
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

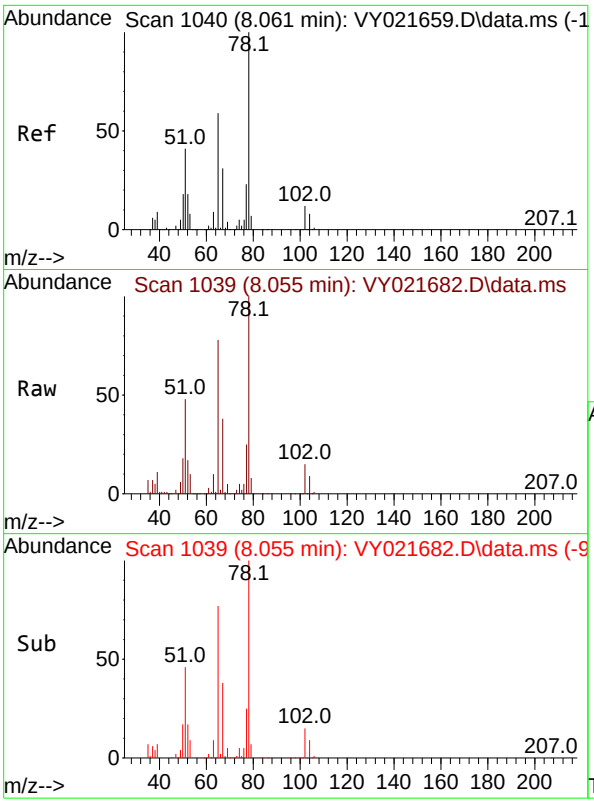


#32
1,1,1-Trichloroethane
Concen: 53.954 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 97 Resp: 220282

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.7	76.1
61	44.7	35.2	52.8

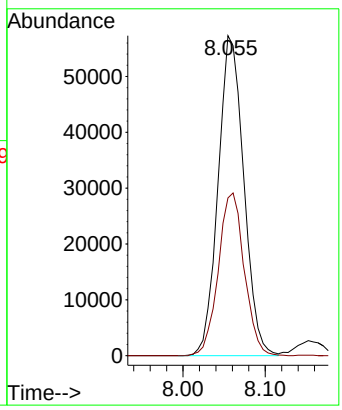




#33
1,2-Dichloroethane-d4
Concen: 55.364 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 65 Resp: 12419

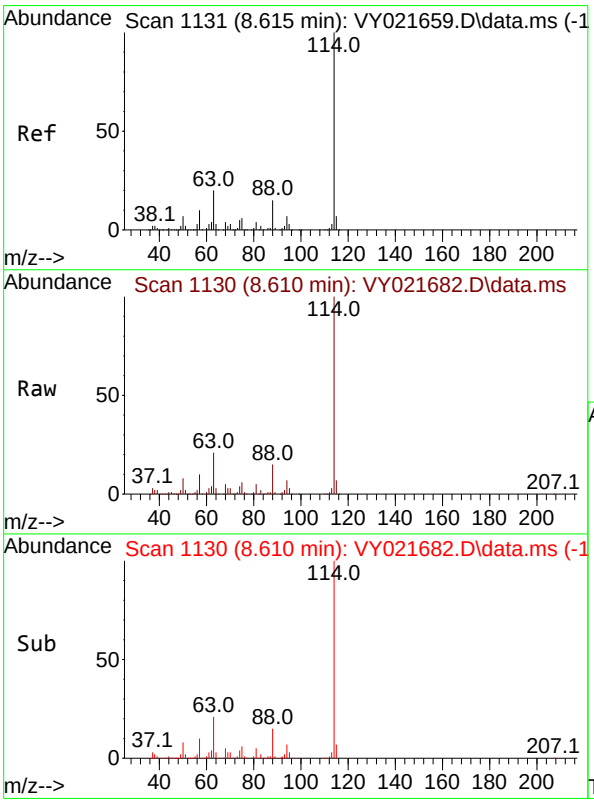
Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

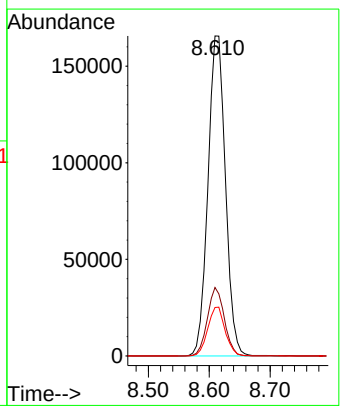
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

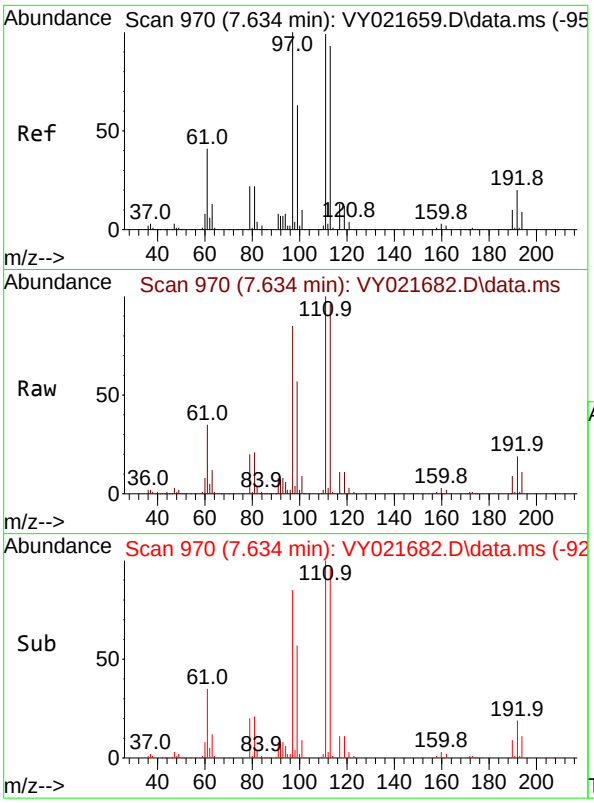


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:114 Resp: 329996

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.2
88	15.1	0.0	29.8

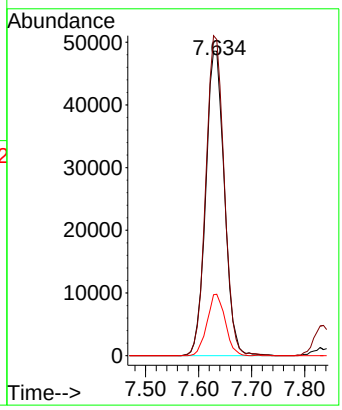




#35
Dibromofluoromethane
Concen: 55.365 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:113 Resp: 11851

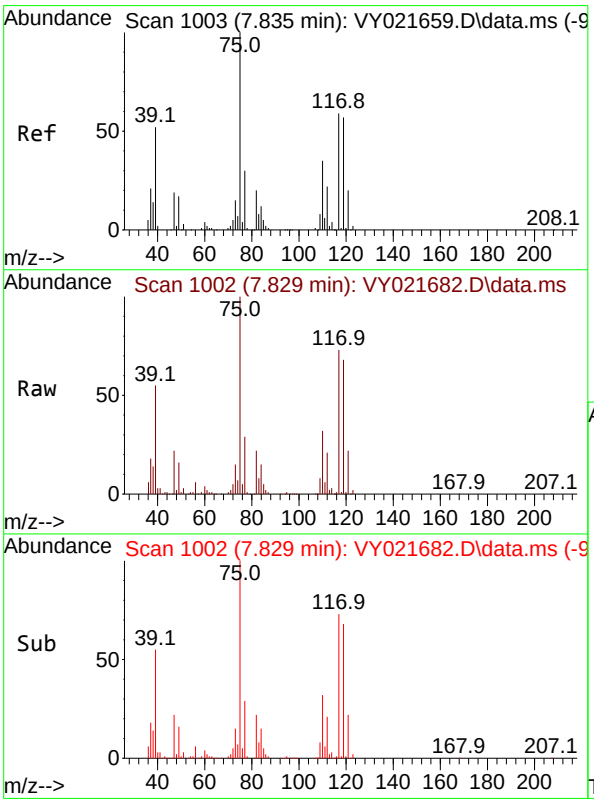
Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.6	123.8
192	19.7	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

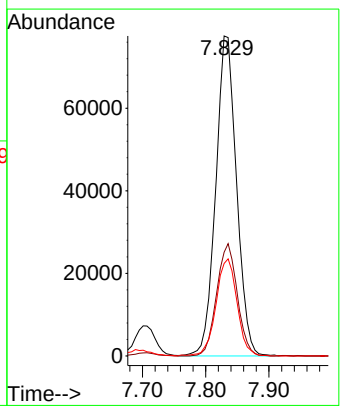
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

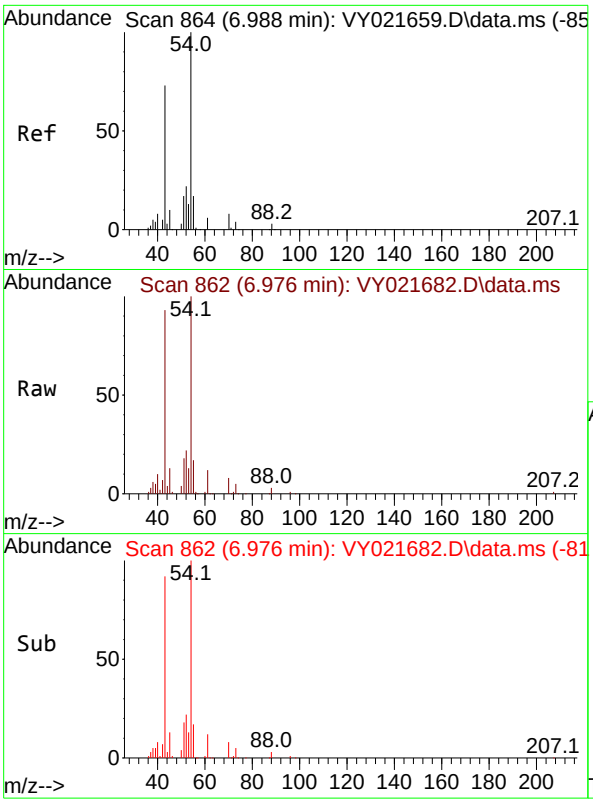


#36
1,1-Dichloropropene
Concen: 54.246 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 75 Resp: 176871

Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.0	50.9
77	30.7	24.8	37.2





#37
Ethyl Acetate
Concen: 53.833 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

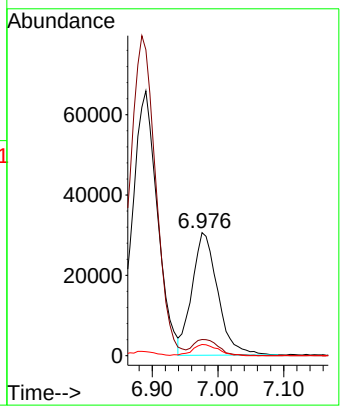
Tgt Ion: 43 Resp: 8283

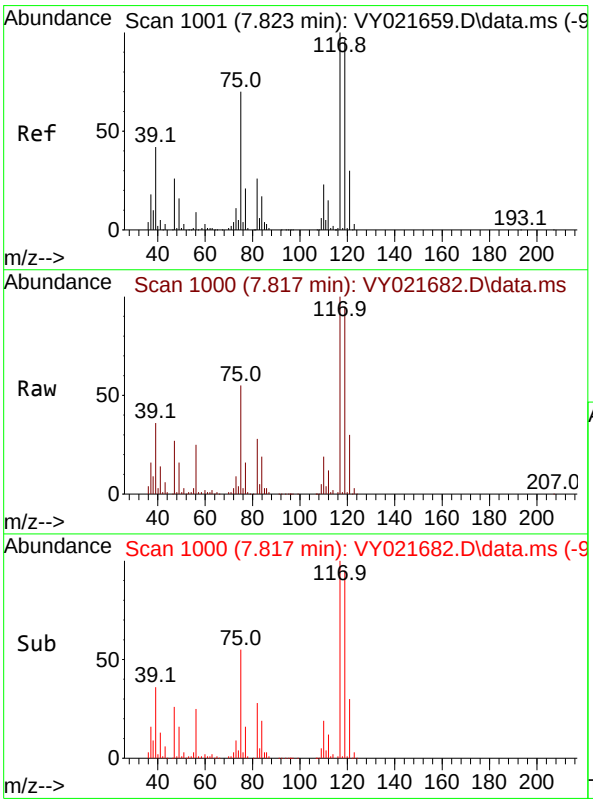
Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.0	16.6
70	9.2	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

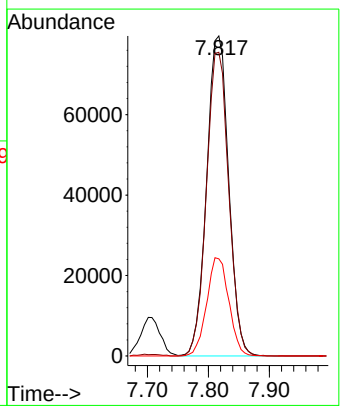


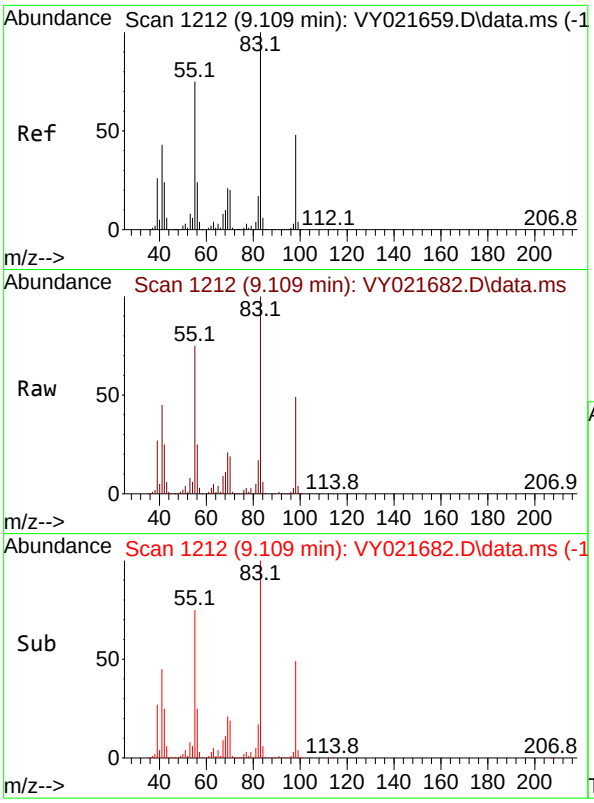


#38
Carbon Tetrachloride
Concen: 53.710 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:117 Resp: 200576

Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.2	114.4
121	30.4	24.2	36.4





#39
Methylcyclohexane
Concen: 53.572 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

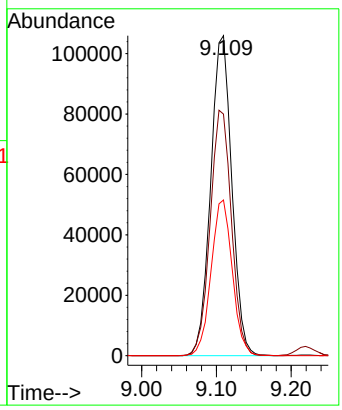
Tgt Ion: 83 Resp: 20866

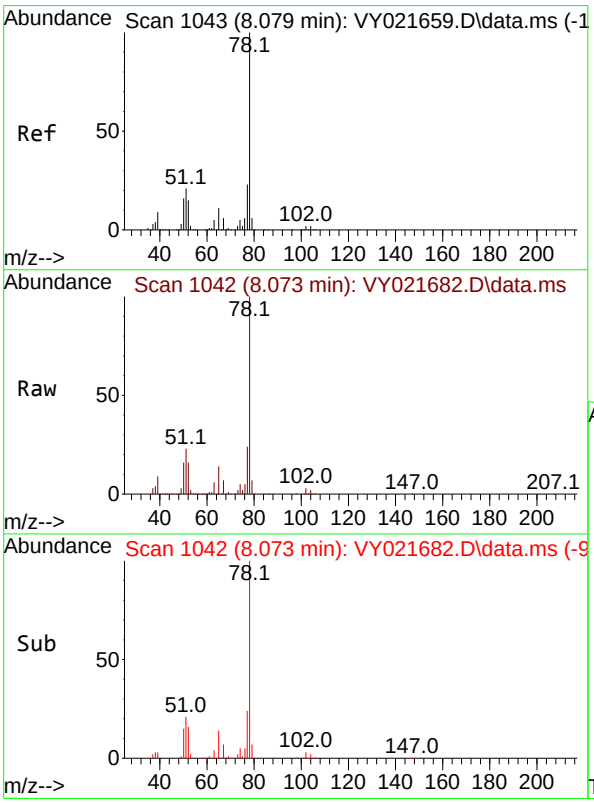
Ion	Ratio	Lower	Upper
83	100		
55	75.5	59.7	89.5
98	48.6	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

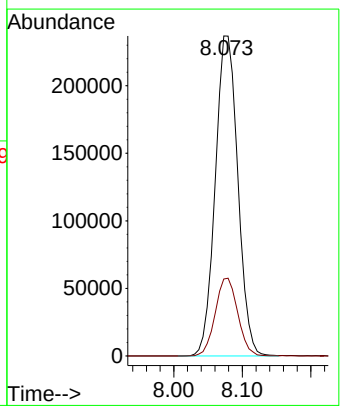


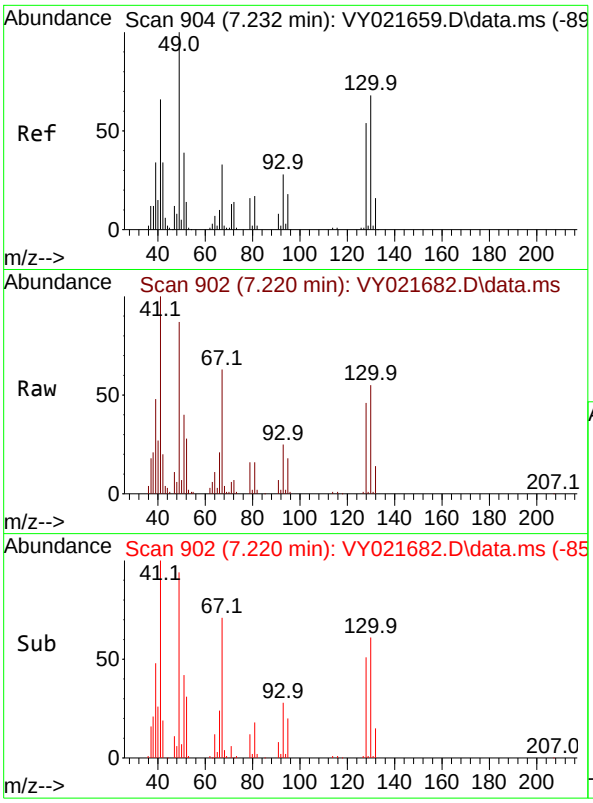


#40
Benzene
Concen: 55.404 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 78 Resp: 540985

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2

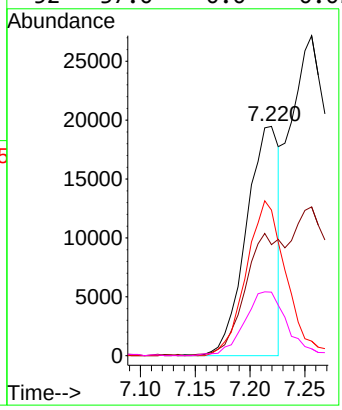




#41
Methacrylonitrile
Concen: 49.359 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 41 Resp: 4033

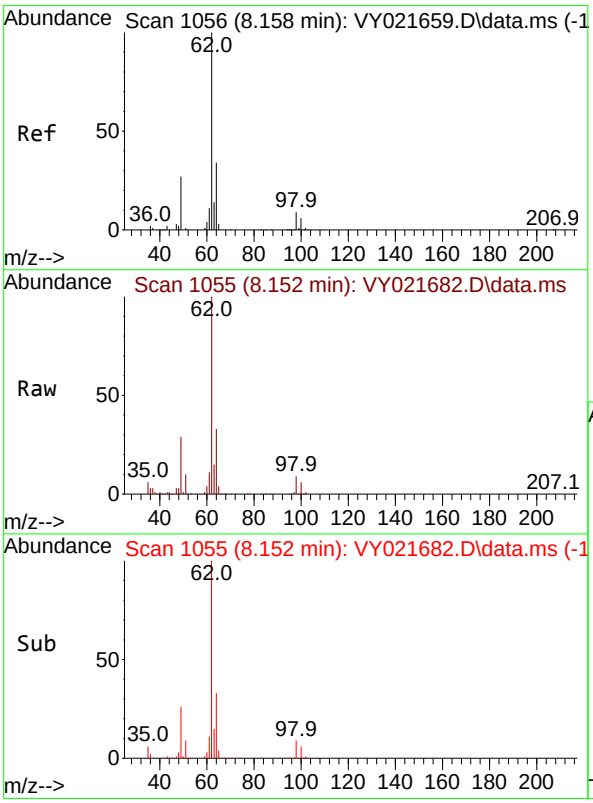
Ion	Ratio	Lower	Upper
41	100		
39	63.0	0.0	0.0#
67	82.8	0.0	0.0#
52	37.0	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

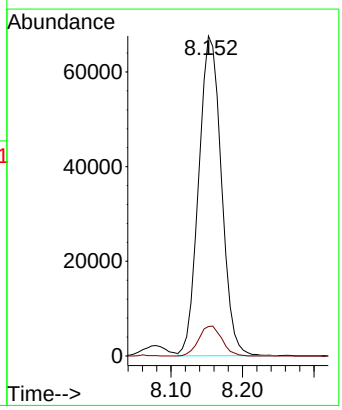
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

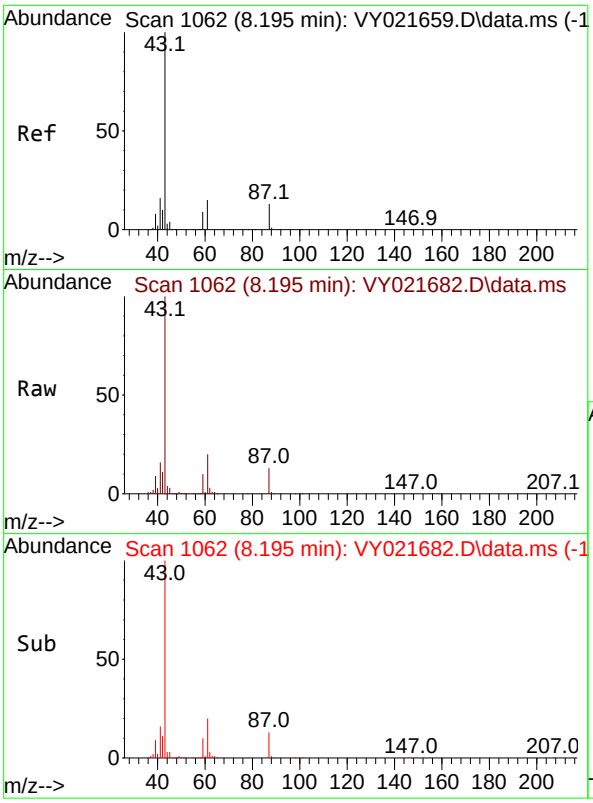


#42
1,2-Dichloroethane
Concen: 54.112 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 62 Resp: 148955

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.4

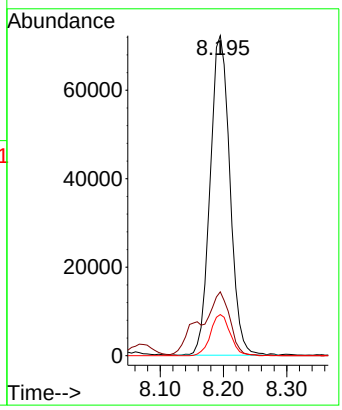




#43
Isopropyl Acetate
Concen: 53.555 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 43 Resp: 15617

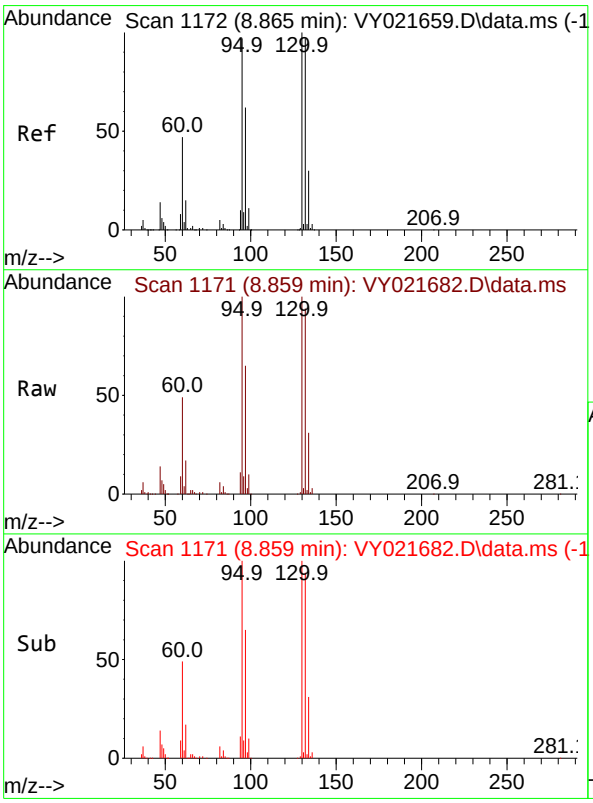
Ion	Ratio	Lower	Upper
43	100		
61	20.9	15.9	23.9
87	12.8	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

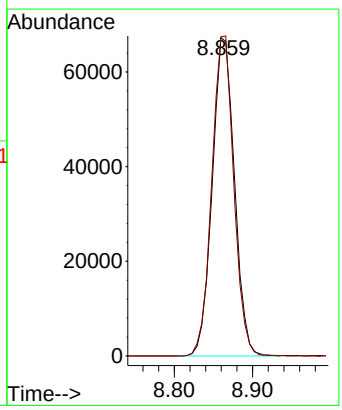
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

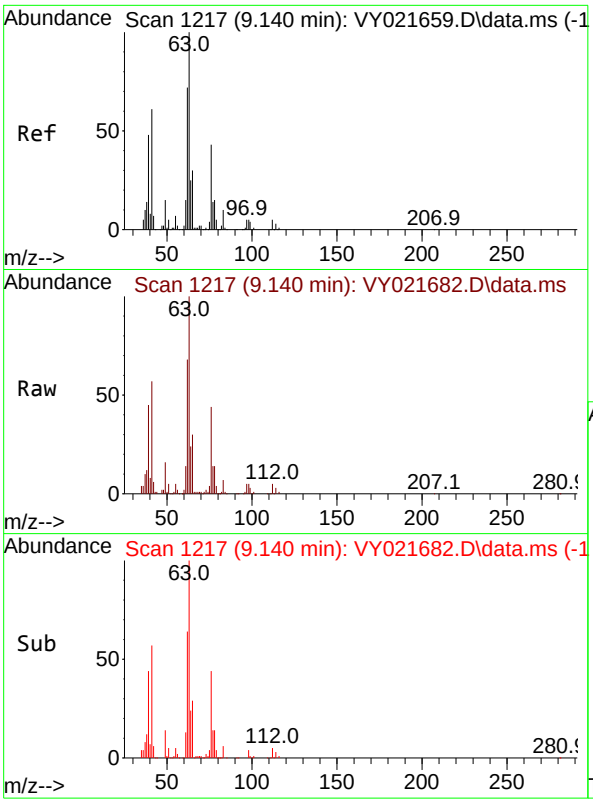


#44
Trichloroethene
Concen: 53.202 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:130 Resp: 132362

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	194.8

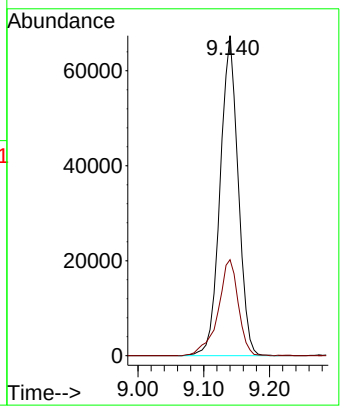




#45
1,2-Dichloropropane
Concen: 55.510 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 63 Resp: 12830

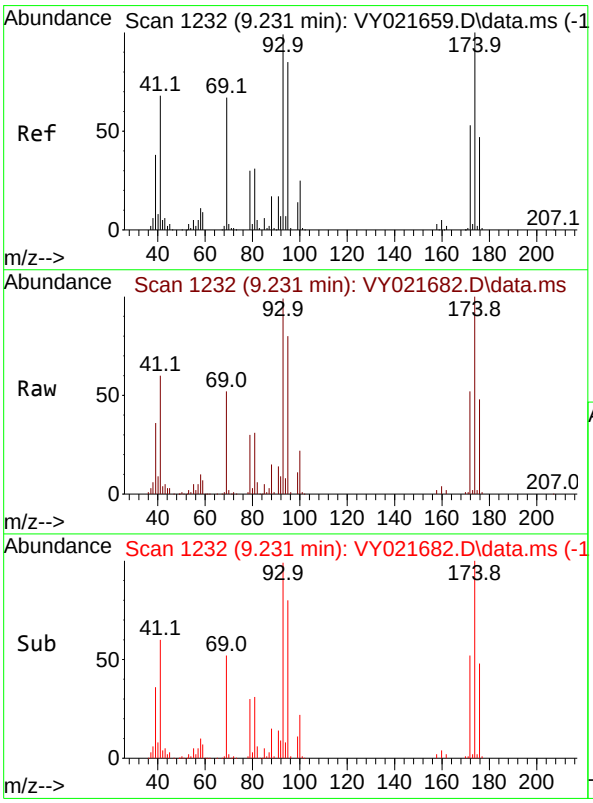
Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

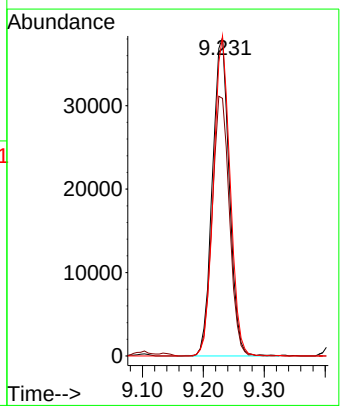
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

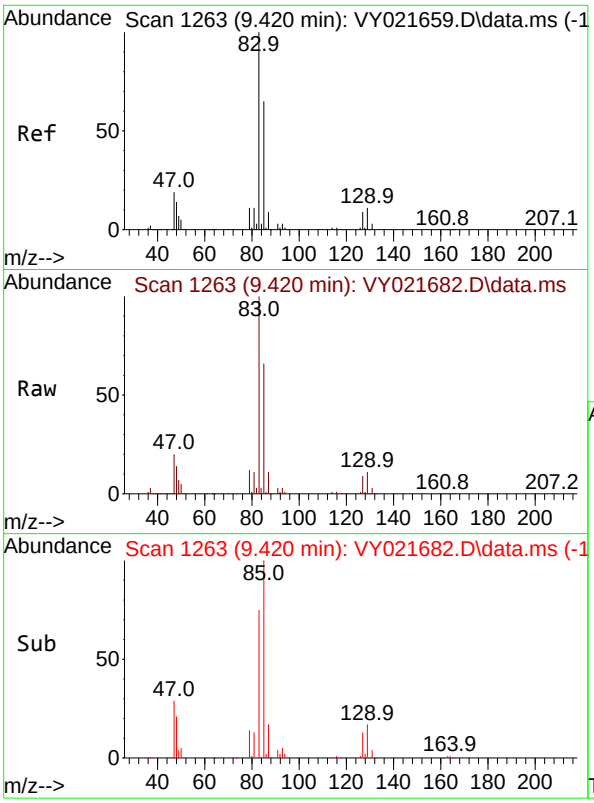


#46
Dibromomethane
Concen: 55.056 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 93 Resp: 73338

Ion	Ratio	Lower	Upper
93	100		
95	83.4	68.1	102.1
174	98.8	80.9	121.3

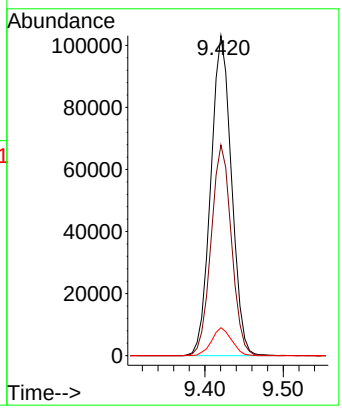




#47
Bromodichloromethane
Concen: 54.928 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 83 Resp: 18958

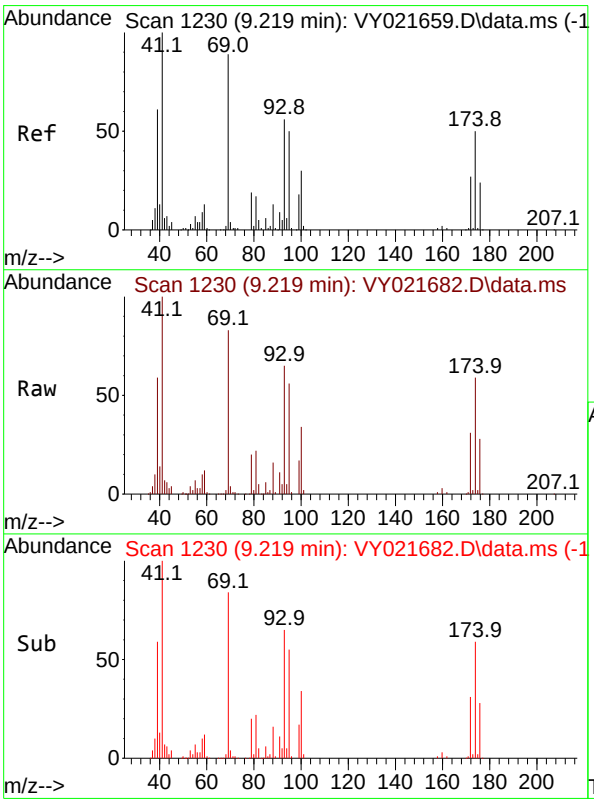
Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.8	77.6
127	8.7	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

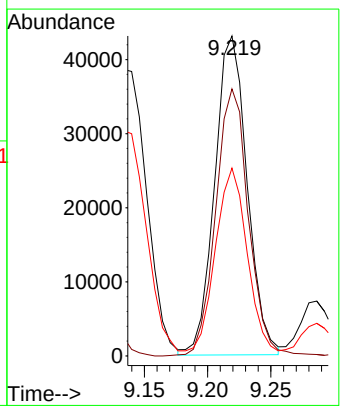
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

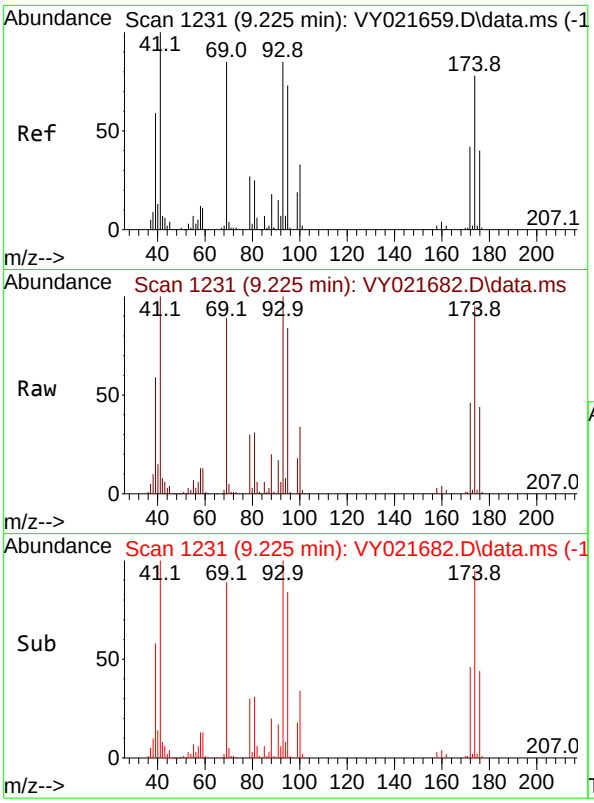


#48
Methyl methacrylate
Concen: 57.497 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 41 Resp: 76952

Ion	Ratio	Lower	Upper
41	100		
69	84.5	69.8	104.8
39	55.2	47.2	70.8

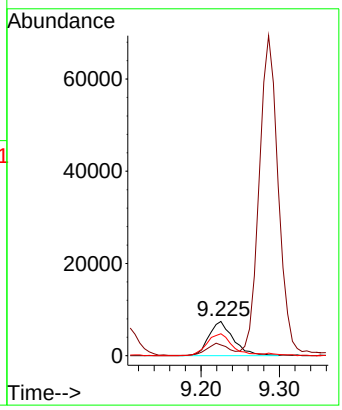




#49
1,4-Dioxane
Concen: 1130.995 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 88 Resp: 1613

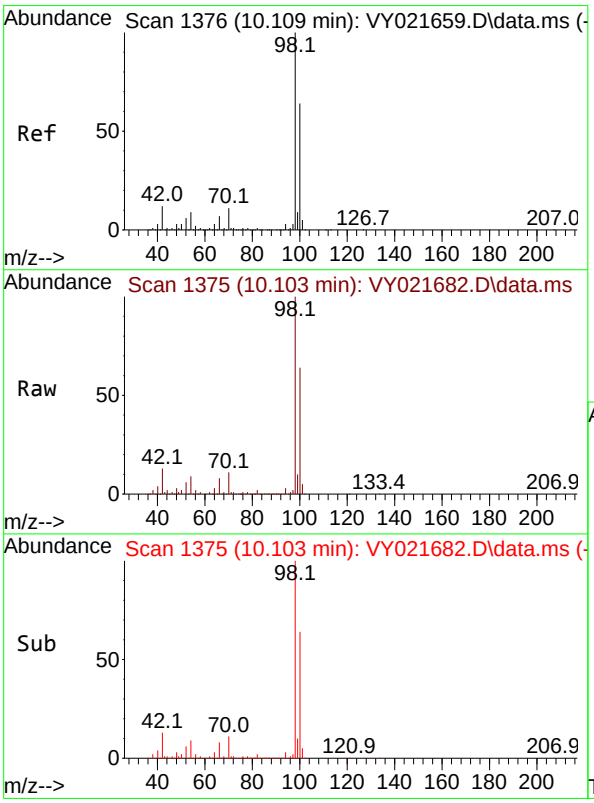
Ion	Ratio	Lower	Upper
88	100		
43	30.4	28.8	43.2
58	65.2	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

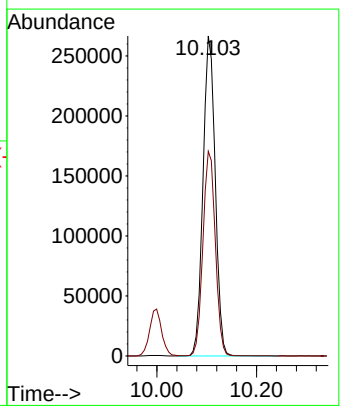
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

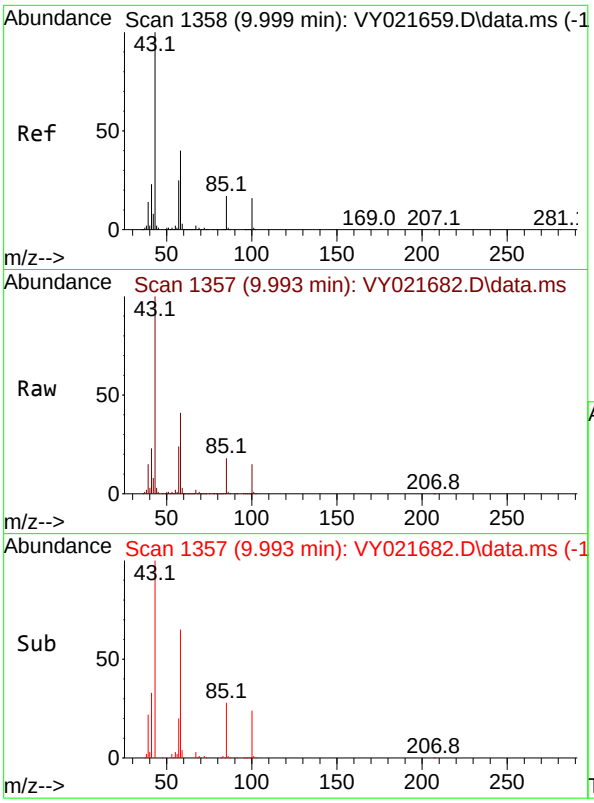


#50
Toluene-d8
Concen: 55.693 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 98 Resp: 453542

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.1	78.1

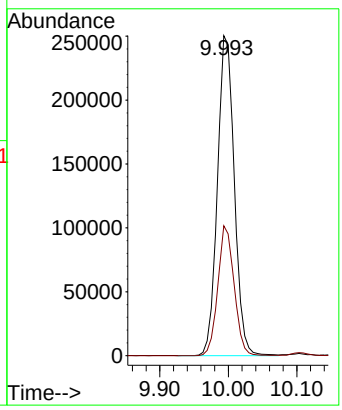




#51
4-Methyl-2-Pentanone
Concen: 281.850 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 43 Resp: 42771

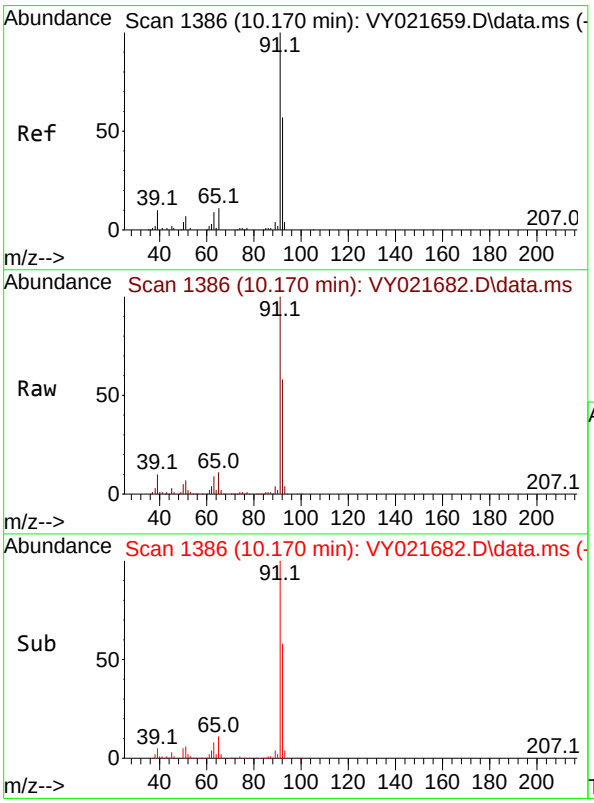
Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

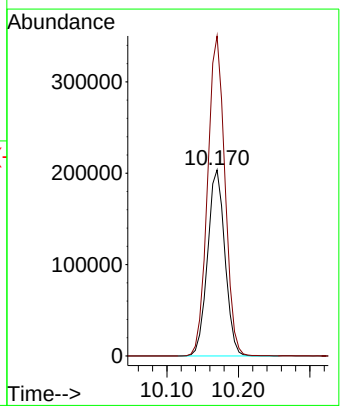
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

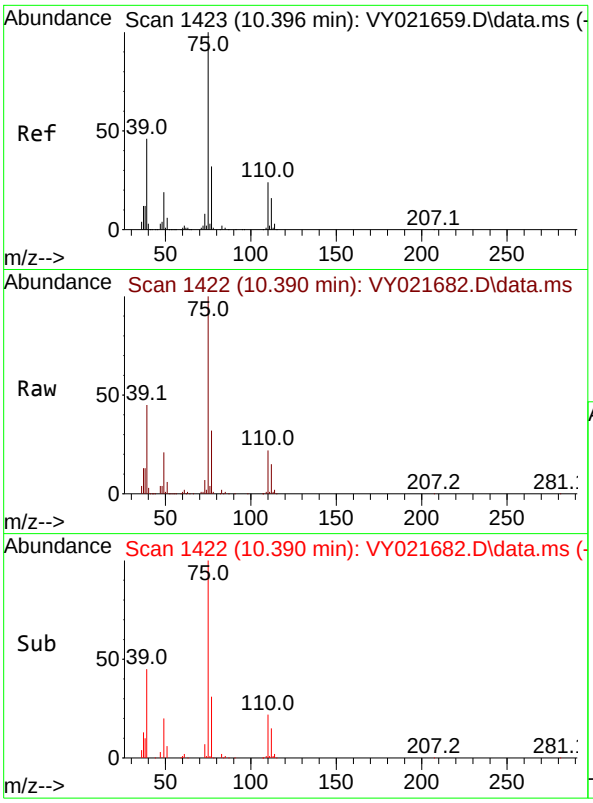


#52
Toluene
Concen: 56.286 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 92 Resp: 342904

Ion	Ratio	Lower	Upper
92	100		
91	172.1	138.6	207.8

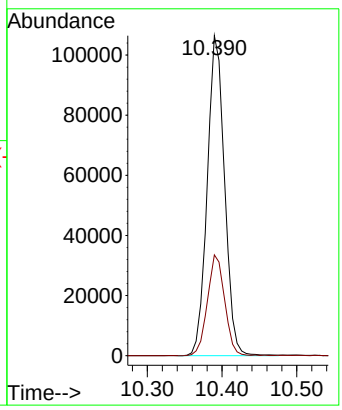




#53
t-1,3-Dichloropropene
Concen: 55.935 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 75 Resp: 17148

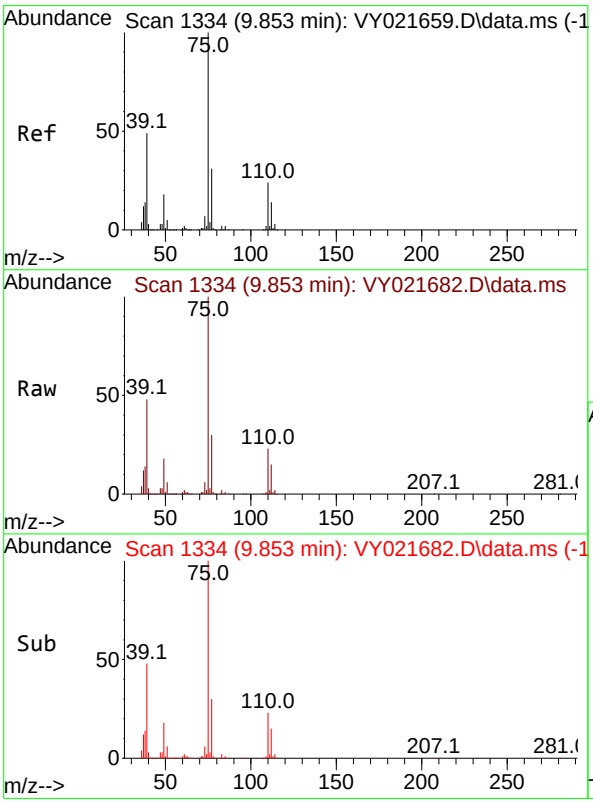
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

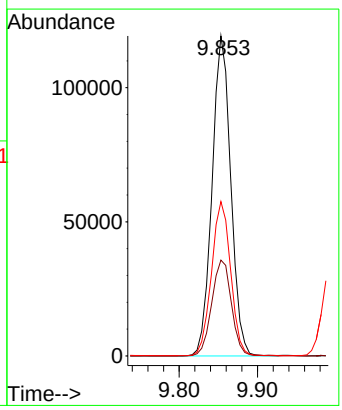
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

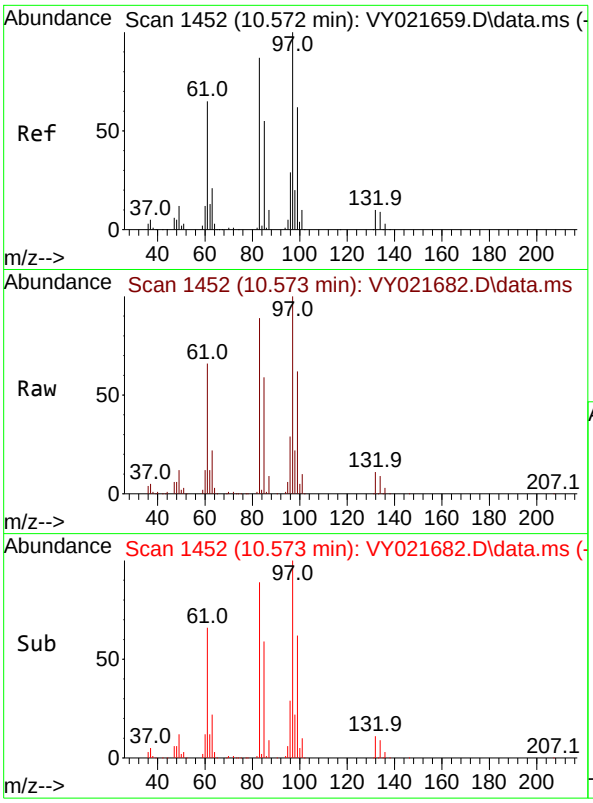


#54
cis-1,3-Dichloropropene
Concen: 54.800 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 75 Resp: 198200

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.9	37.3
39	48.2	39.2	58.8

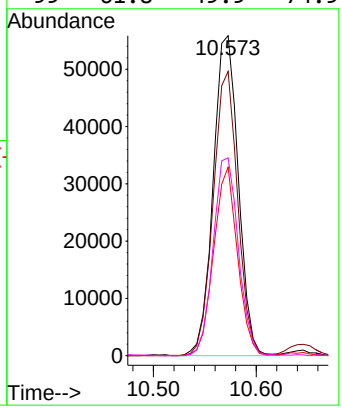




#55
1,1,2-Trichloroethane
Concen: 55.283 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 97 Resp: 9476

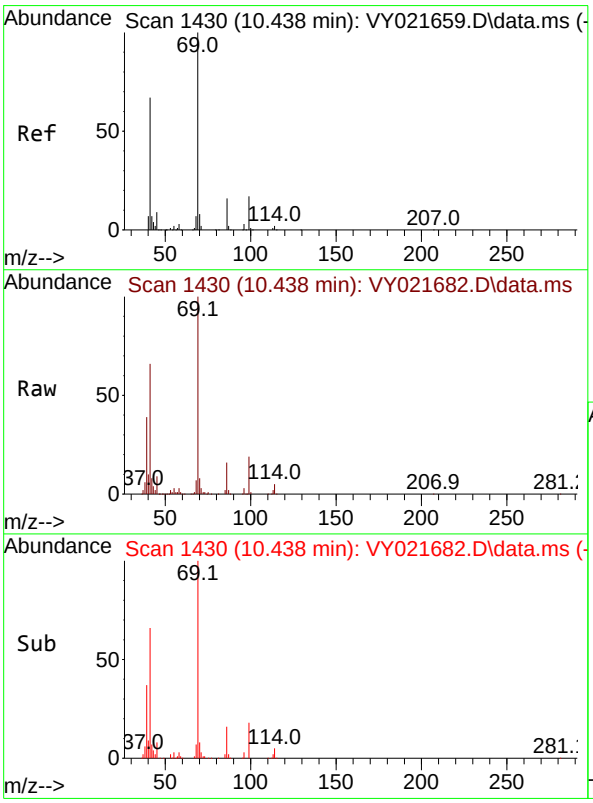
Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.5	104.3
85	58.9	43.9	65.9
99	61.8	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

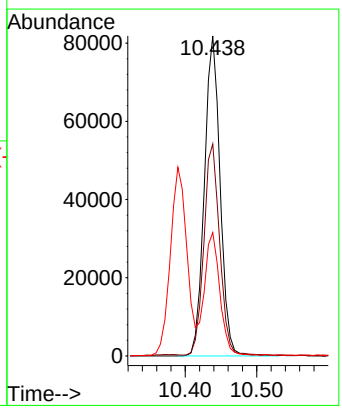
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

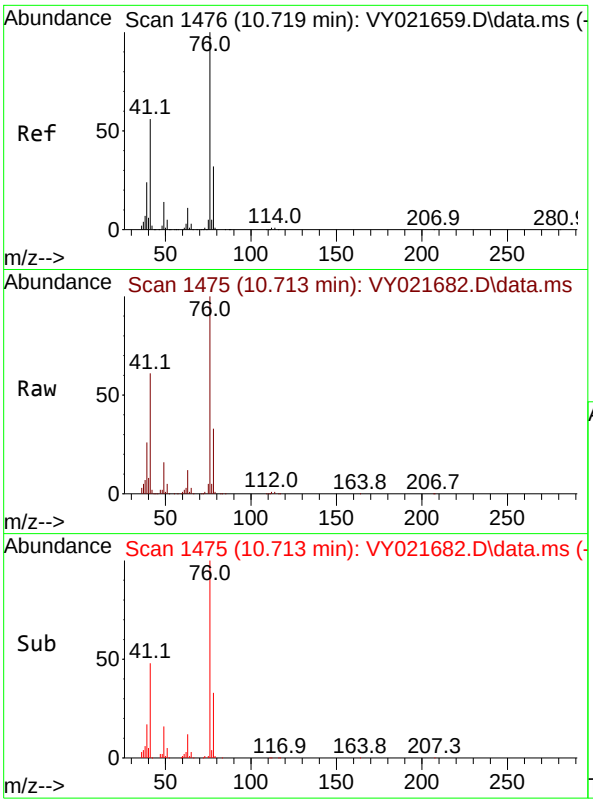


#56
Ethyl methacrylate
Concen: 57.148 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 69 Resp: 125088

Ion	Ratio	Lower	Upper
69	100		
41	66.2	53.8	80.6
39	37.6	29.6	44.4





#57
1,3-Dichloropropane
Concen: 55.418 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

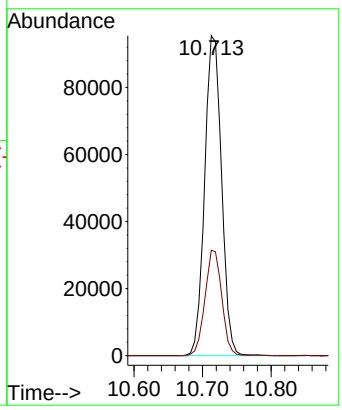
Tgt Ion: 76 Resp: 16406

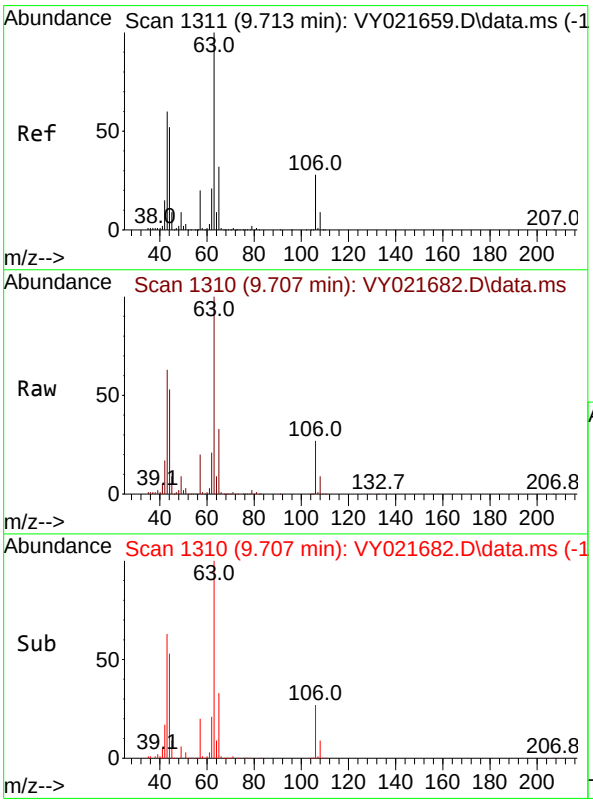
Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

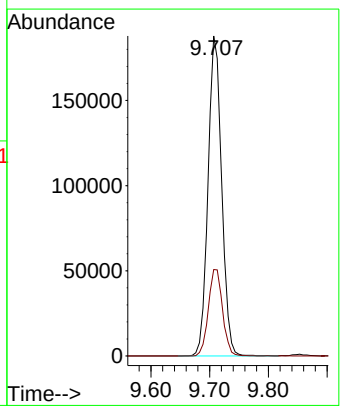


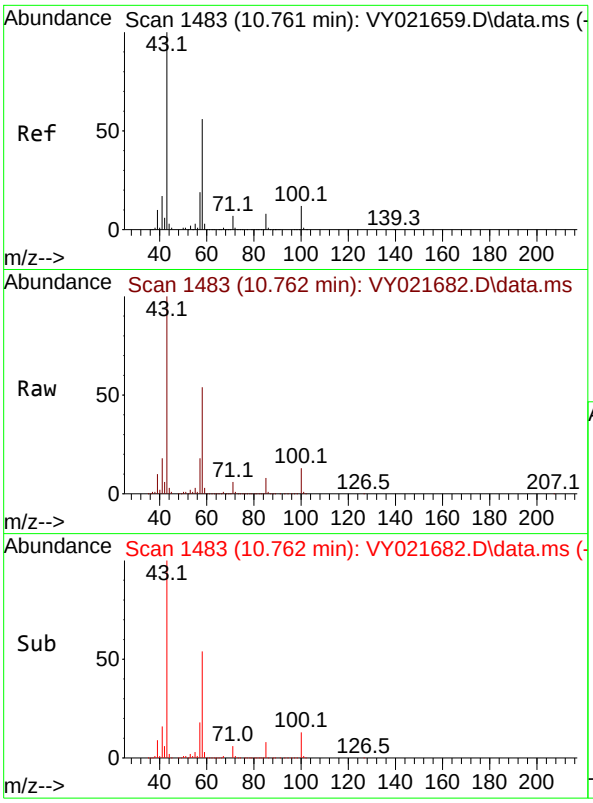


#58
2-Chloroethyl Vinyl ether
Concen: 283.541 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 63 Resp: 302761

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.4	33.6





#59
2-Hexanone
Concen: 284.379 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

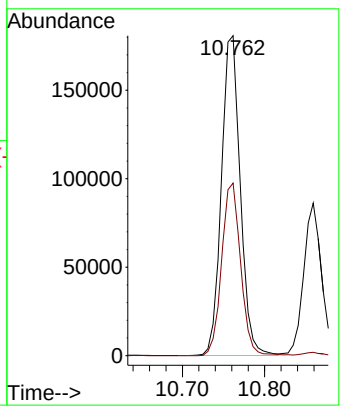
Tgt Ion: 43 Resp: 28740

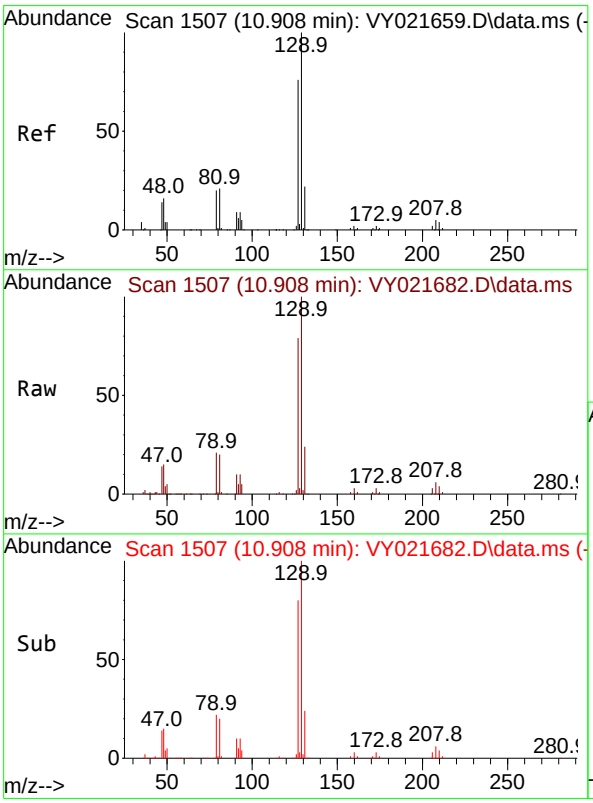
Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

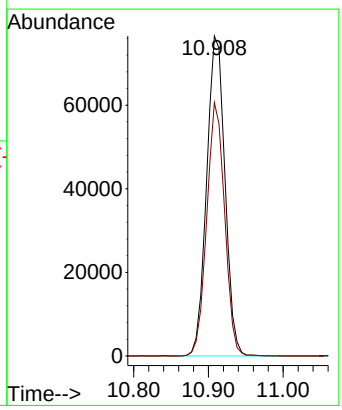


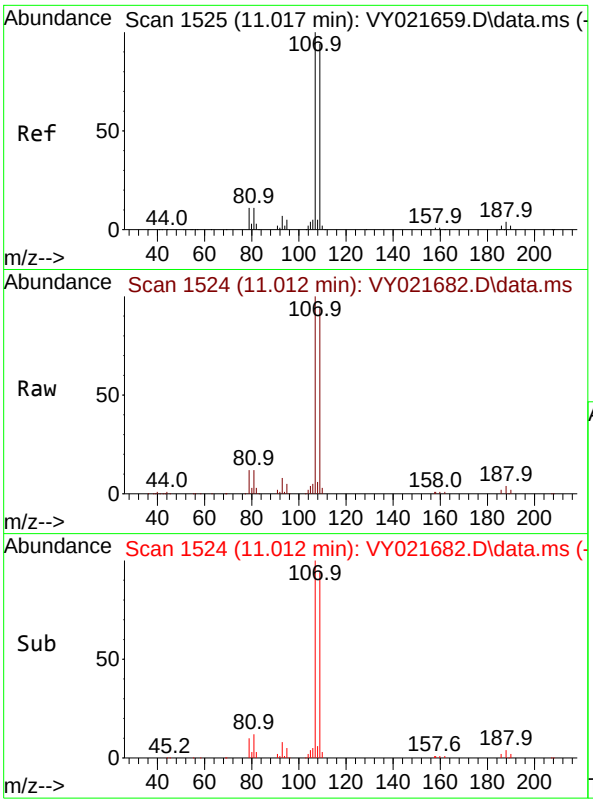


#60
Dibromochloromethane
Concen: 55.650 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:129 Resp: 130245

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.6	115.7





#61
1,2-Dibromoethane
Concen: 55.054 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

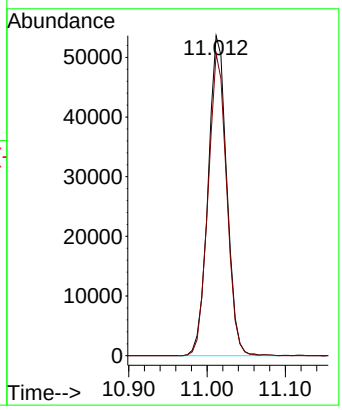
Tgt Ion:107 Resp: 8853

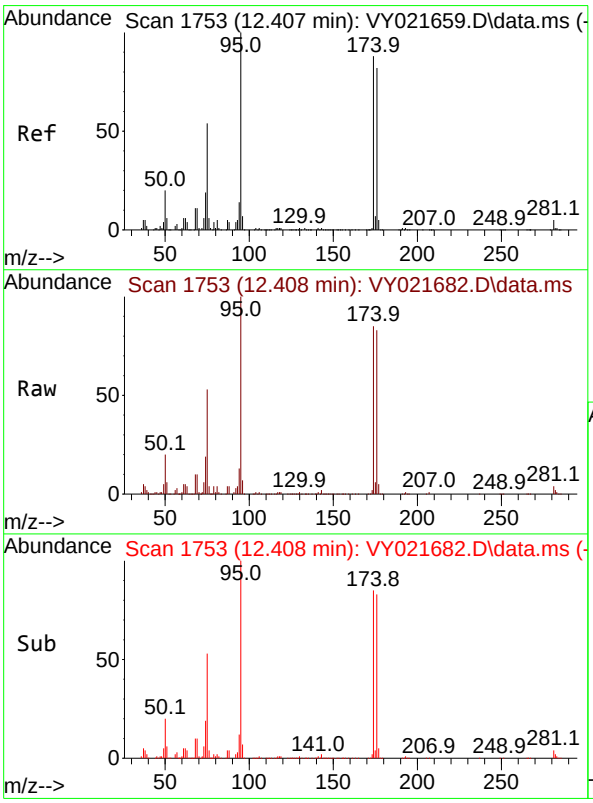
Ion	Ratio	Lower	Upper
107	100		
109	94.1	74.4	111.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

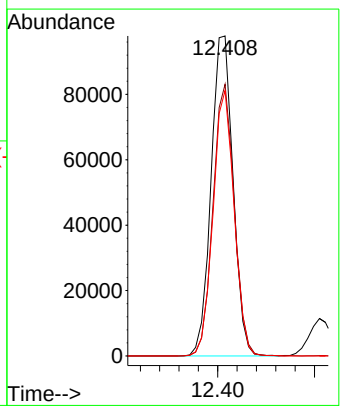


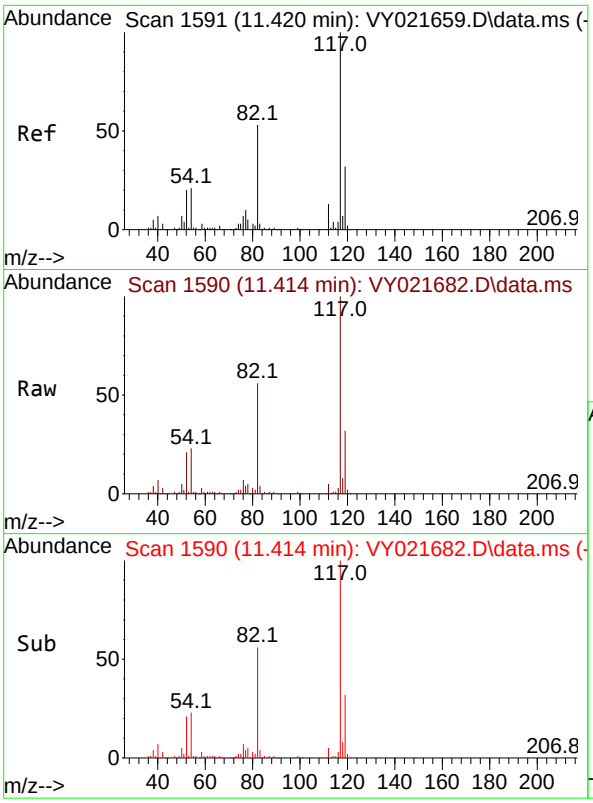


#62
4-Bromofluorobenzene
Concen: 55.943 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 95 Resp: 154098

Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	170.8
176	79.7	0.0	162.0

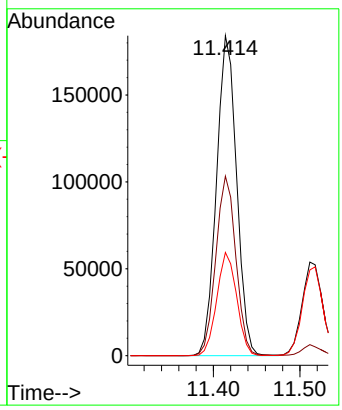




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:117 Resp: 29710

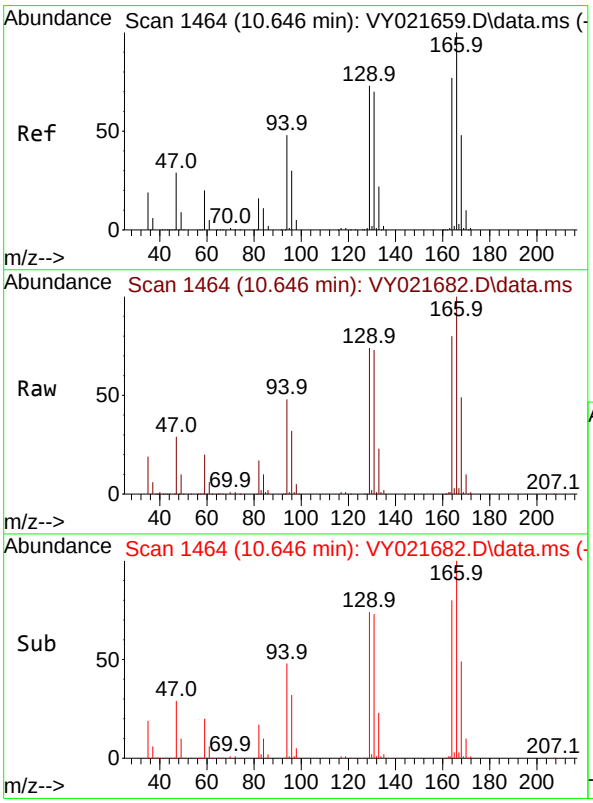
Ion	Ratio	Lower	Upper
117	100		
82	56.1	42.8	64.2
119	32.2	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

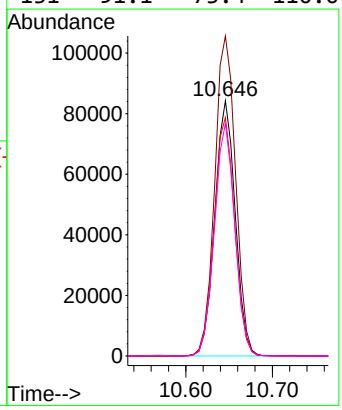
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

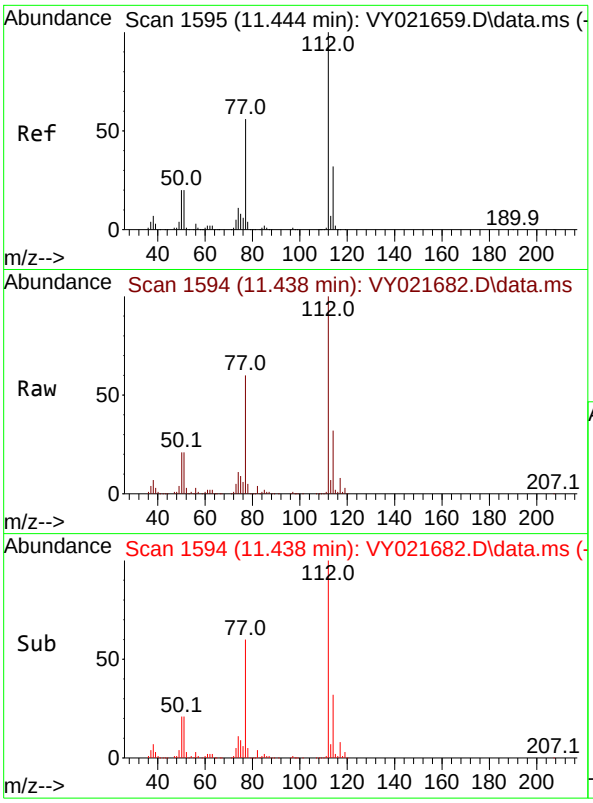


#64
Tetrachloroethene
Concen: 50.915 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:164 Resp: 137772

Ion	Ratio	Lower	Upper
164	100		
166	125.4	104.6	156.8
129	93.4	76.6	114.8
131	91.1	73.4	110.0

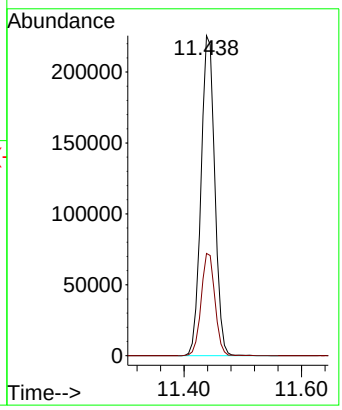




#65
Chlorobenzene
Concen: 53.850 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:112 Resp: 36675

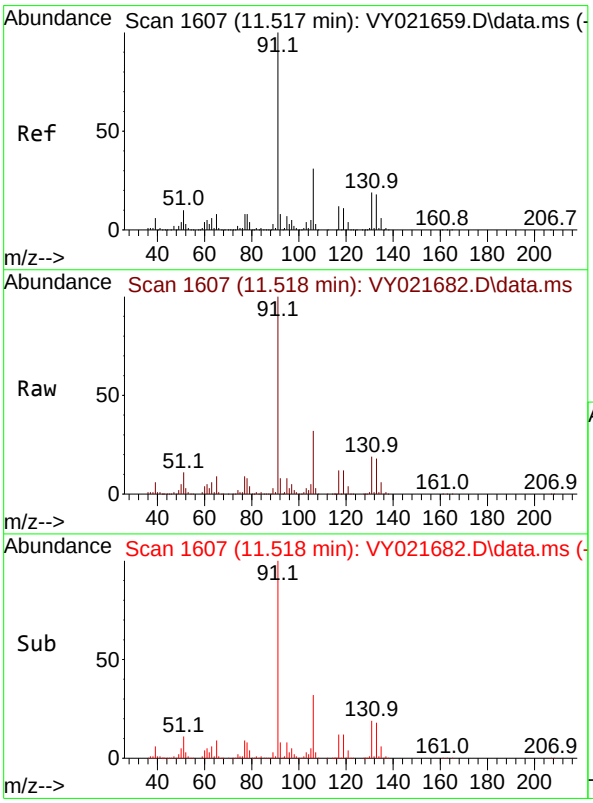
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

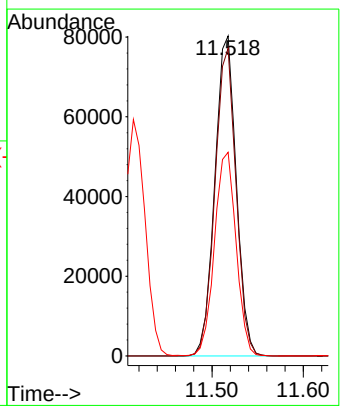
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

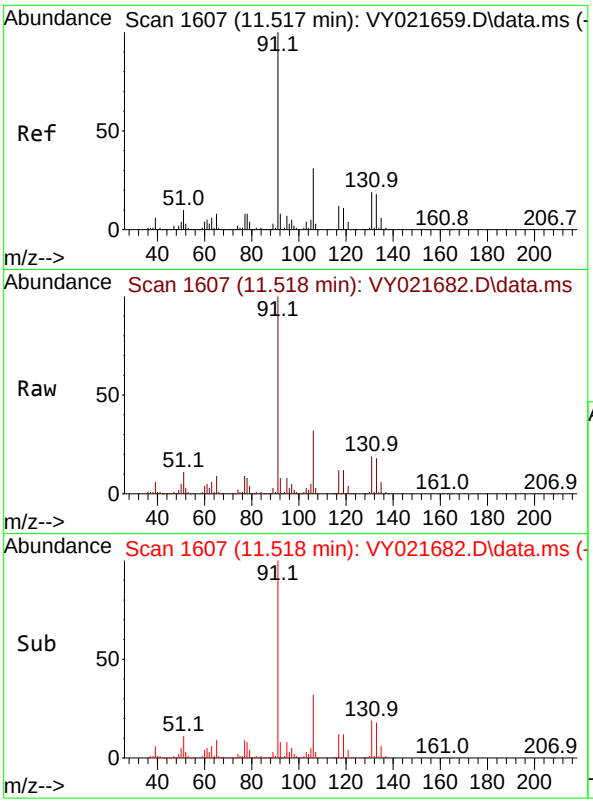


#66
1,1,1,2-Tetrachloroethane
Concen: 54.168 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:131 Resp: 130891

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	141.8
119	64.3	31.6	95.0

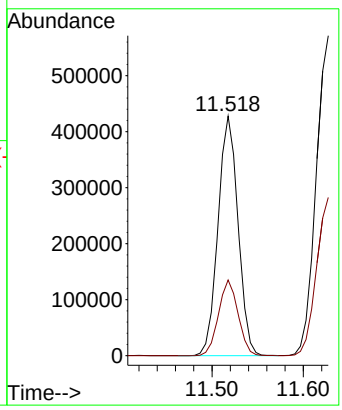




#67
Ethyl Benzene
Concen: 55.731 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 91 Resp: 65086

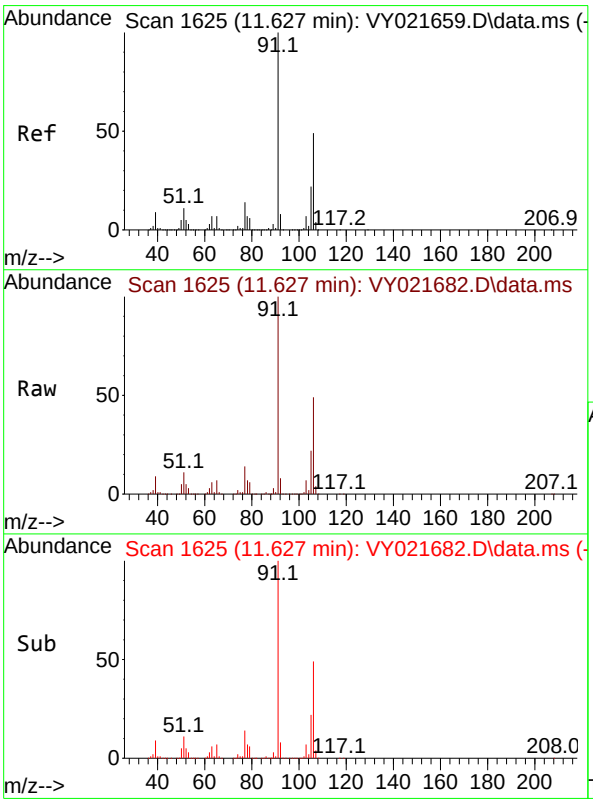
Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

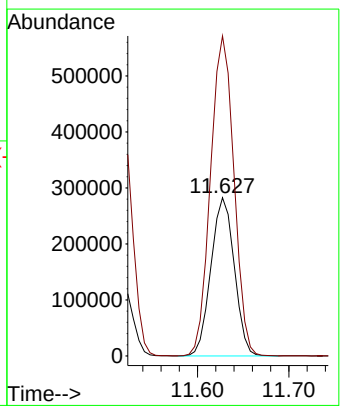
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

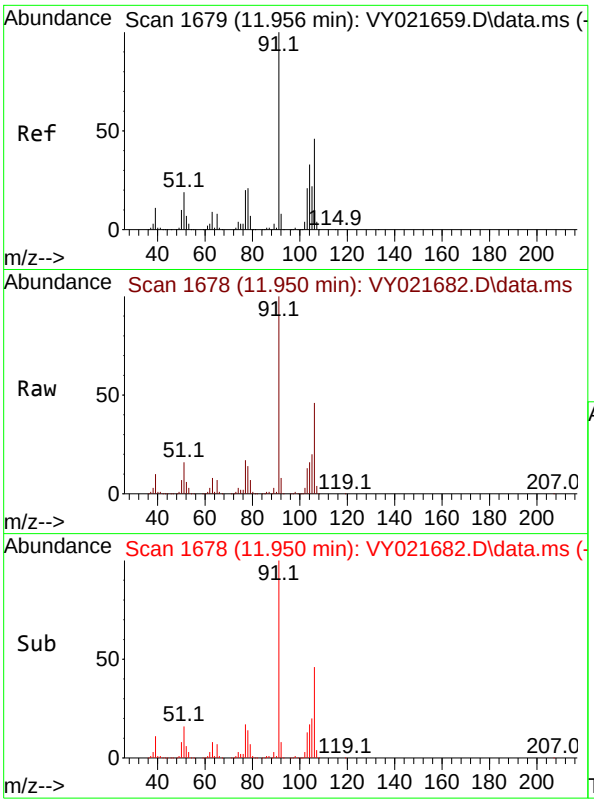


#68
m/p-Xylenes
Concen: 112.193 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:106 Resp: 501735

Ion	Ratio	Lower	Upper
106	100		
91	203.1	162.4	243.6

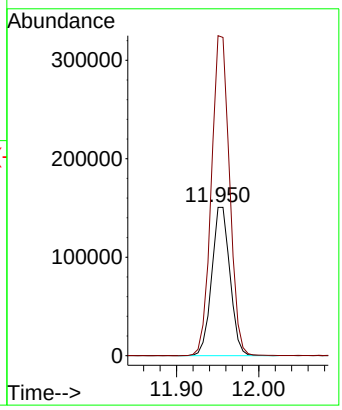




#69
o-Xylene
Concen: 56.184 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:106 Resp: 23193

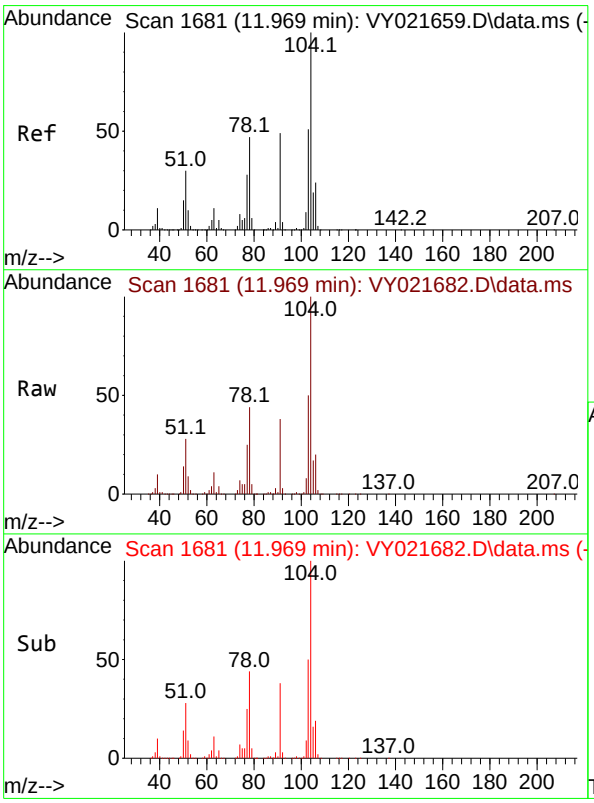
Ion	Ratio	Lower	Upper
106	100		
91	215.2	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

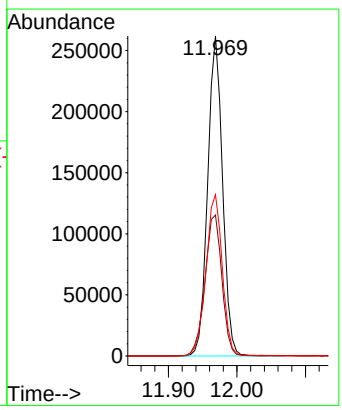
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

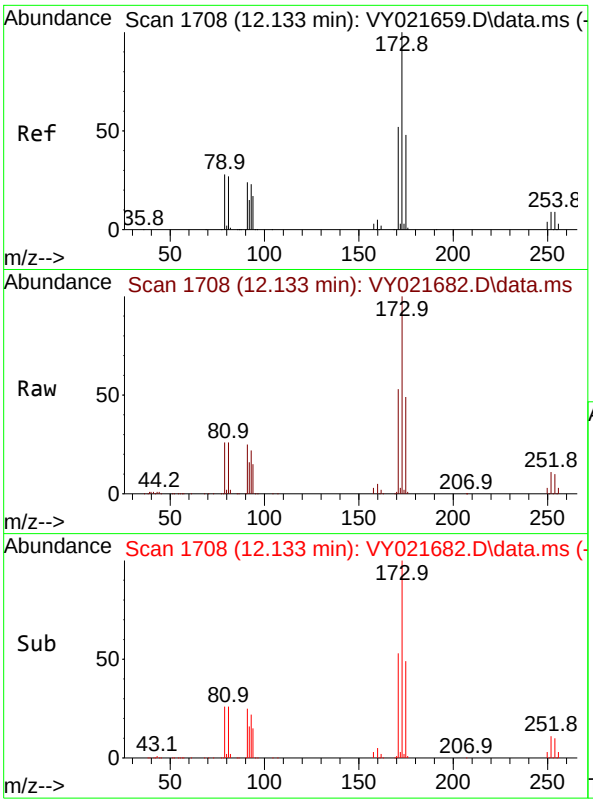


#70
Styrene
Concen: 57.510 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:104 Resp: 395829

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.8	61.2
103	55.3	44.2	66.2

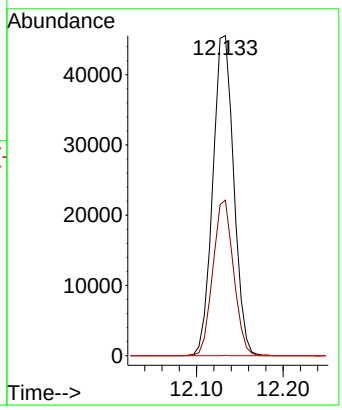




#71
Bromoform
Concen: 55.504 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:173 Resp: 7650

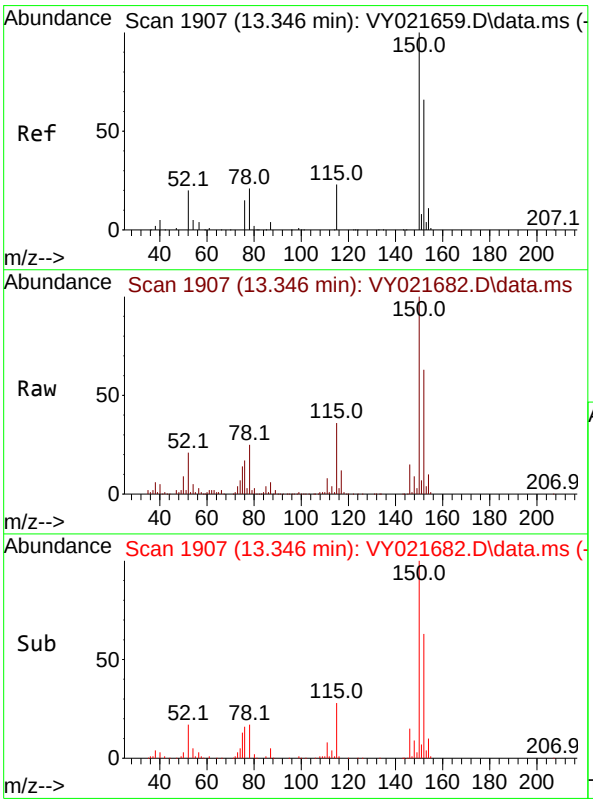
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	73.0
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

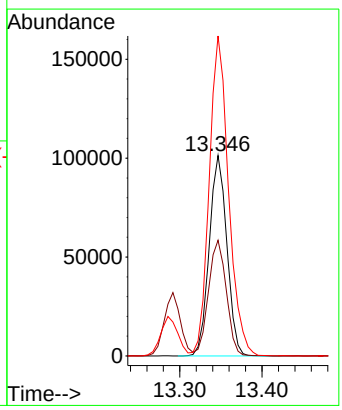
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

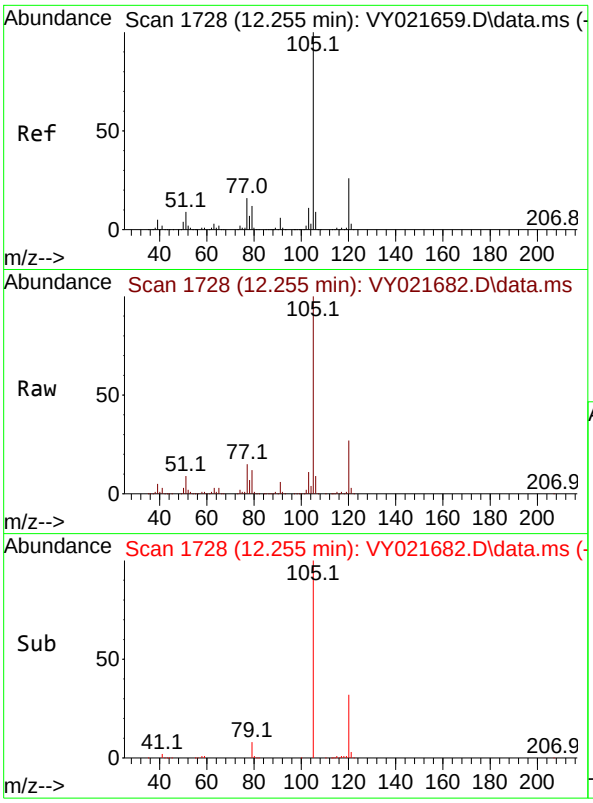


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:152 Resp: 151090

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.8	86.5
150	175.0	0.0	348.4

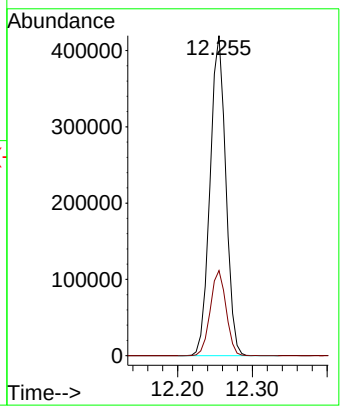




#73
Isopropylbenzene
Concen: 54.731 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:105 Resp: 61419

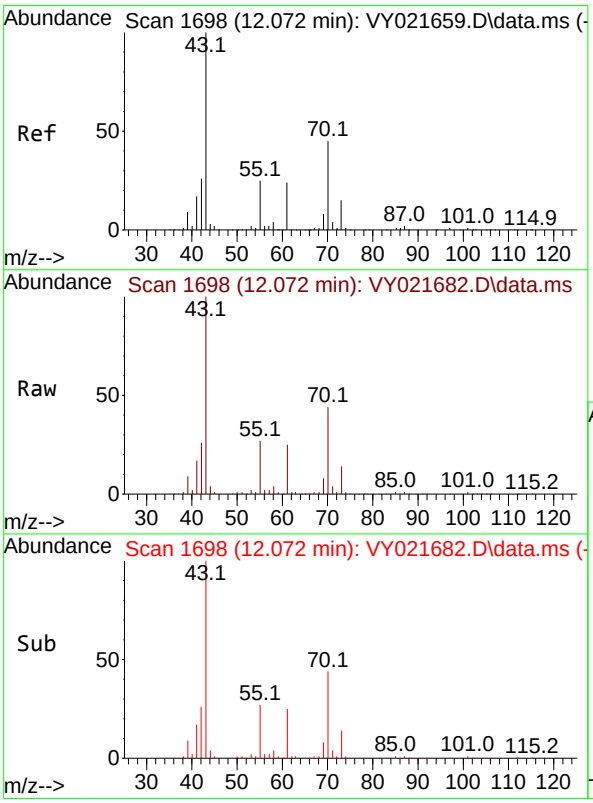
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

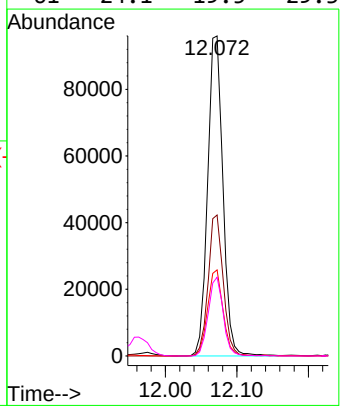
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

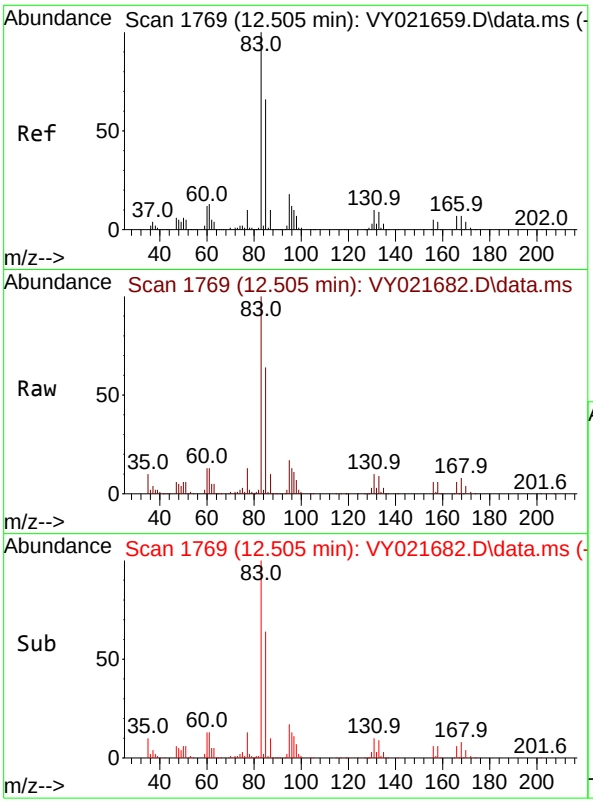


#74
N-amyl acetate
Concen: 54.111 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 43 Resp: 142513

Ion	Ratio	Lower	Upper
43	100		
70	43.5	34.7	52.1
55	27.2	21.2	31.8
61	24.1	19.5	29.3





#75
1,1,2,2-Tetrachloroethane
Concen: 52.733 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

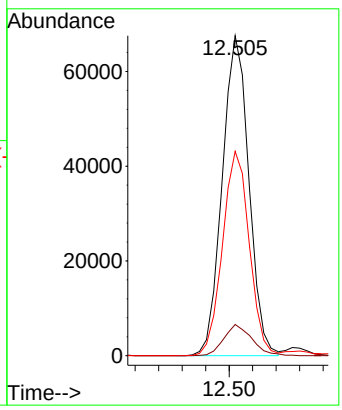
Tgt Ion: 83 Resp: 10639

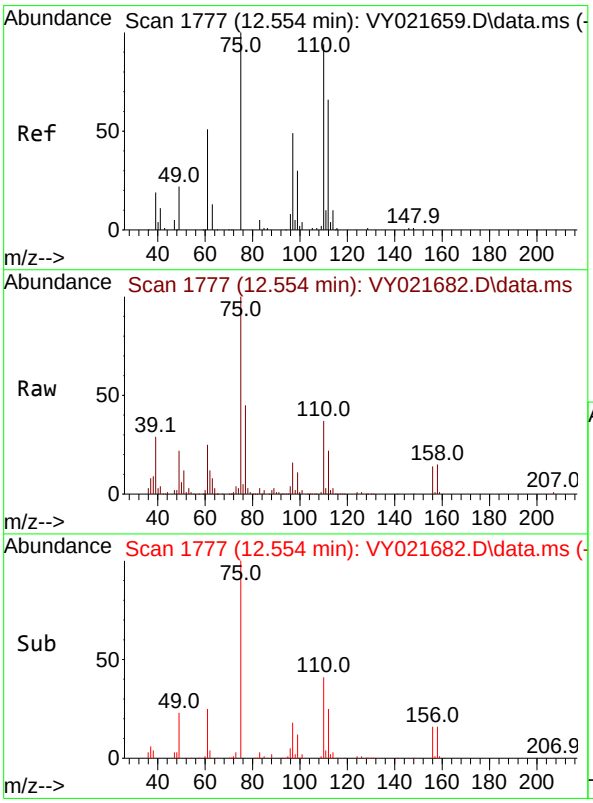
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	64.2	32.3	96.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

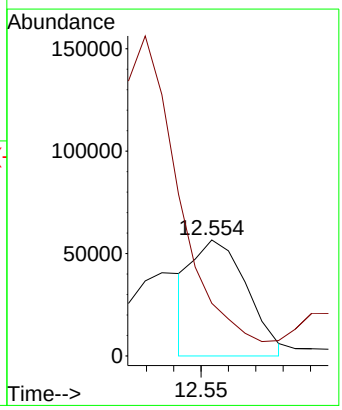


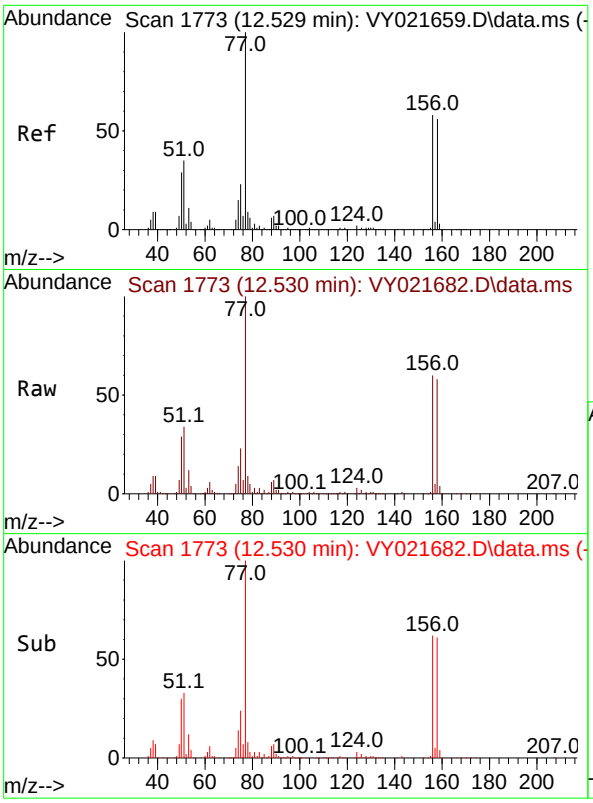


#76
1,2,3-Trichloropropane
Concen: 52.378 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 75 Resp: 78446

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

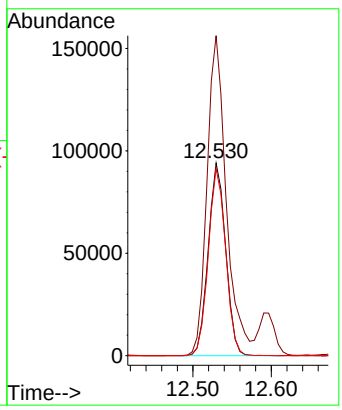




#77
Bromobenzene
Concen: 53.988 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:156 Resp: 14546

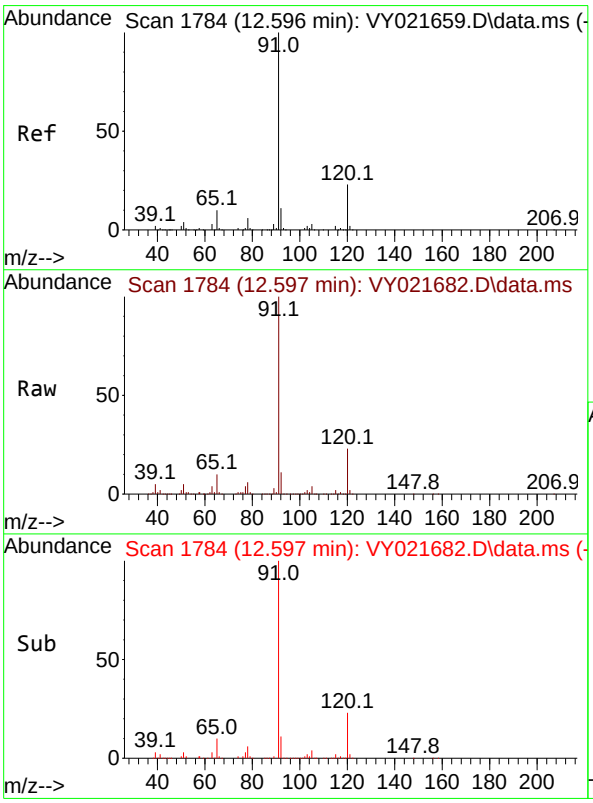
Ion	Ratio	Lower	Upper
156	100		
77	182.5	92.8	278.3
158	96.7	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

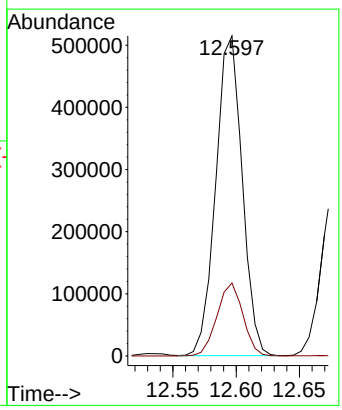
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

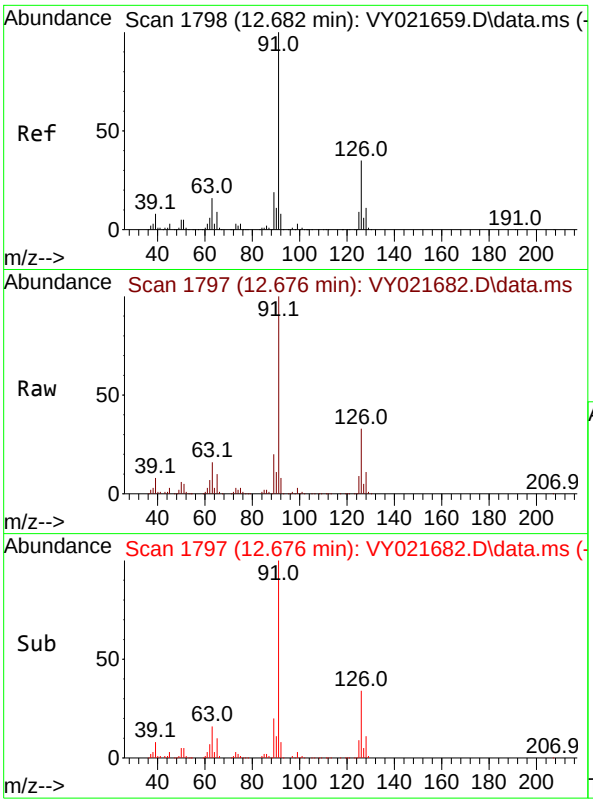


#78
n-propylbenzene
Concen: 55.292 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 91 Resp: 745971

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.3	33.9

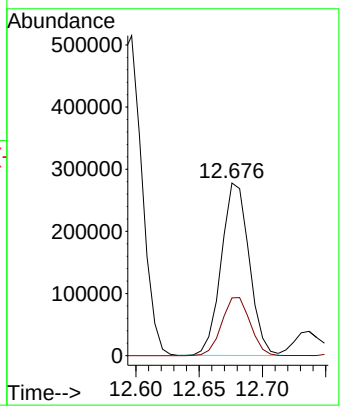




#79
2-Chlorotoluene
Concen: 54.411 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 91 Resp: 42637

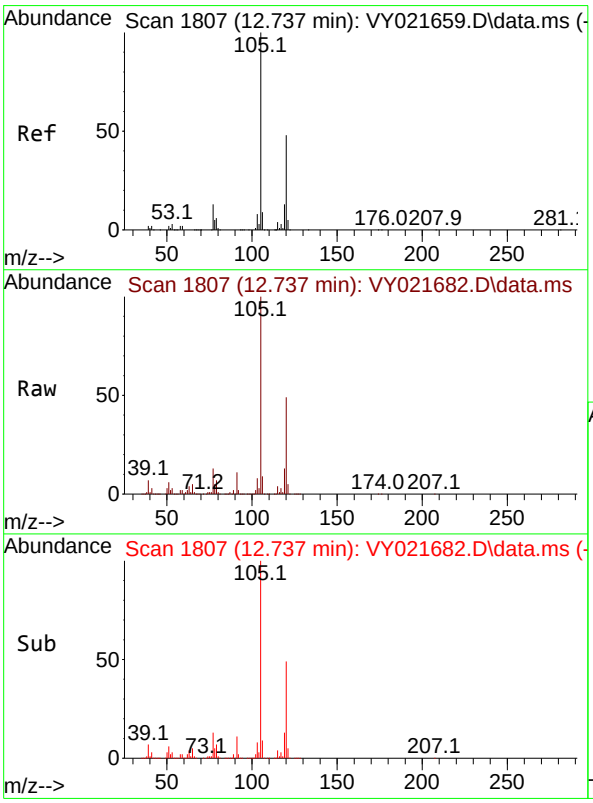
Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

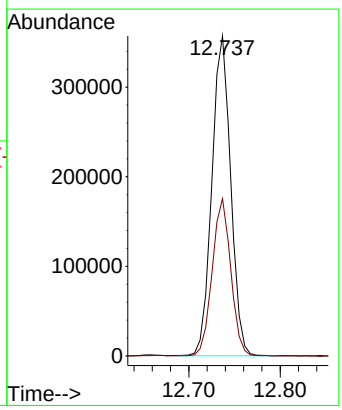
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

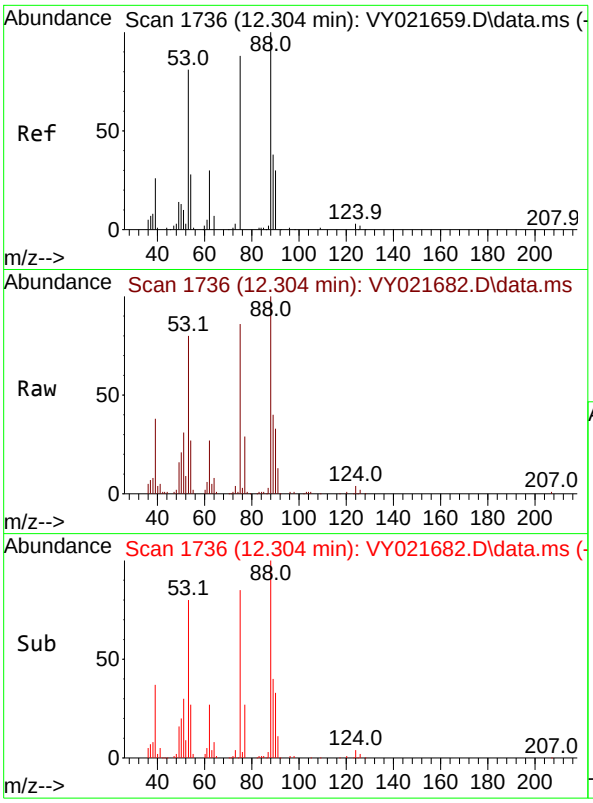


#80
1,3,5-Trimethylbenzene
Concen: 55.616 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:105 Resp: 510087

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.5	73.5

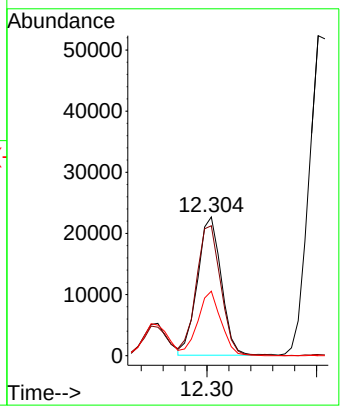




#81
trans-1,4-Dichloro-2-butene
Concen: 52.602 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 75 Resp: 3419

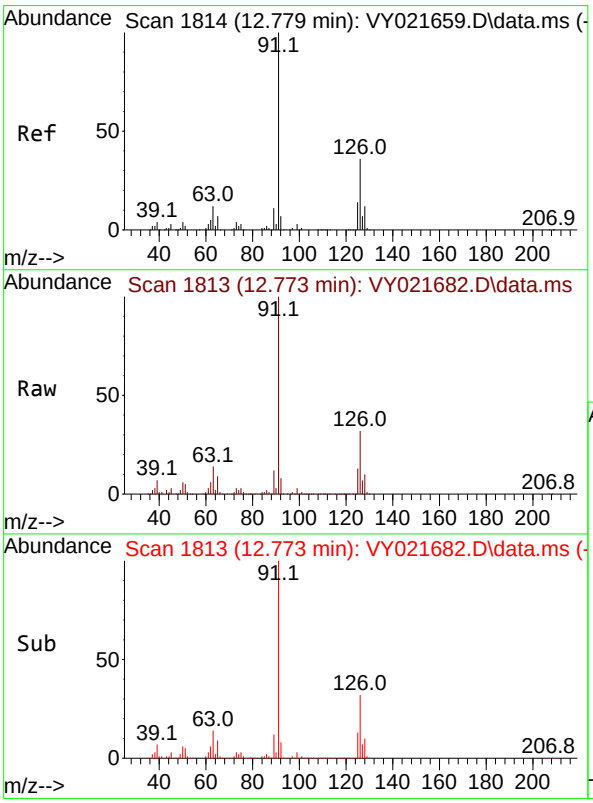
Ion	Ratio	Lower	Upper
75	100		
53	97.3	76.1	114.1
89	45.7	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

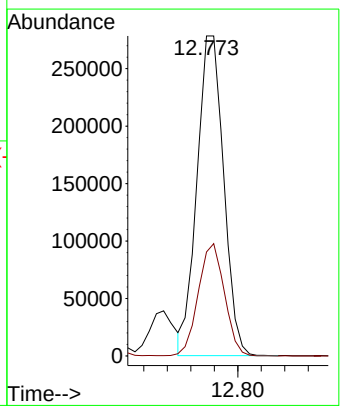
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

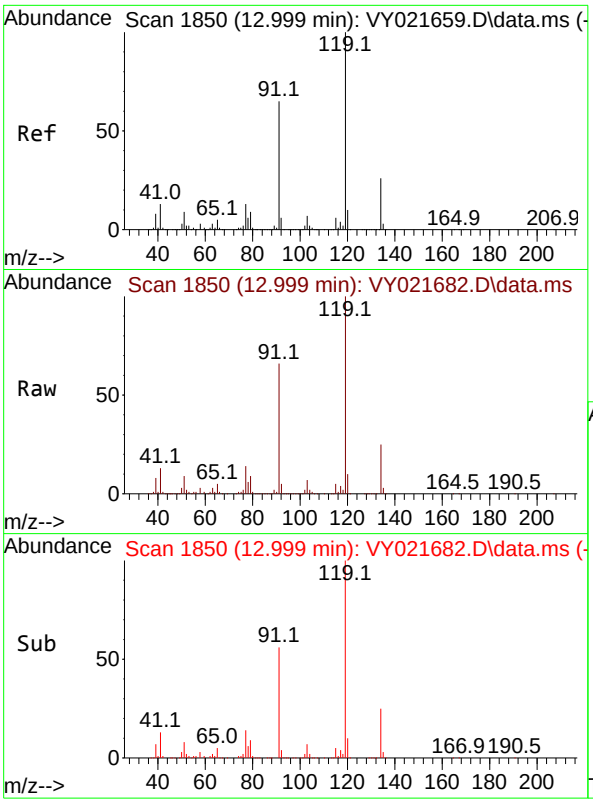


#82
4-Chlorotoluene
Concen: 53.730 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 91 Resp: 438952

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.0	50.9

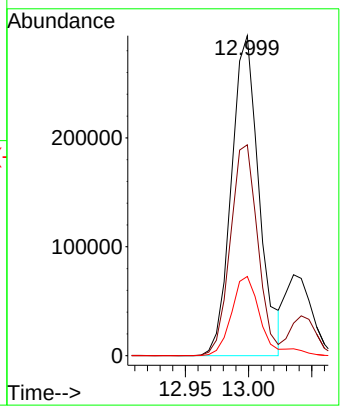




#83
tert-Butylbenzene
Concen: 54.771 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:119 Resp: 44743

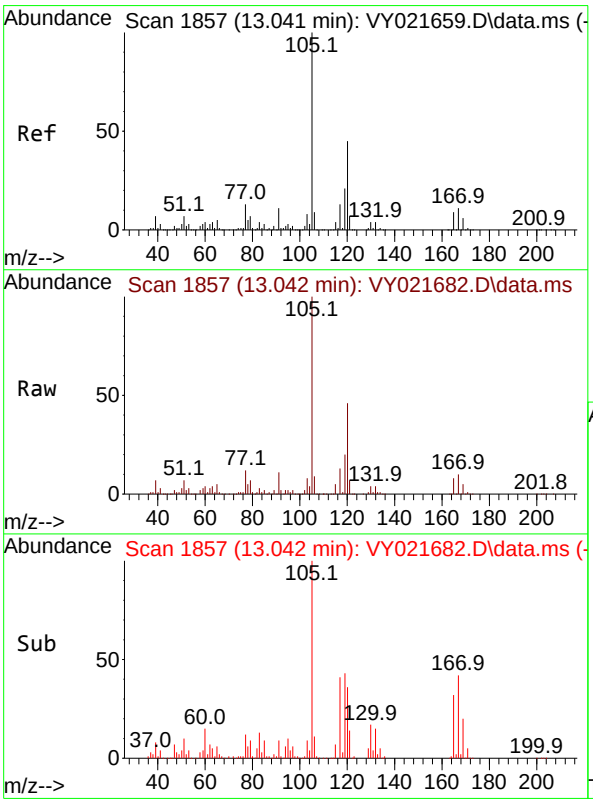
Ion	Ratio	Lower	Upper
119	100		
91	65.2	32.6	97.7
134	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

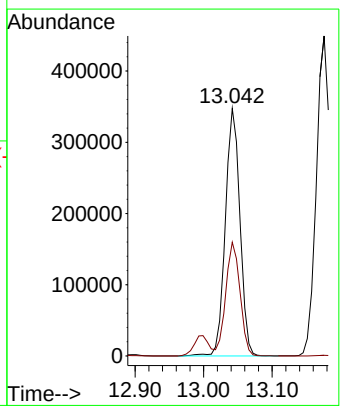
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

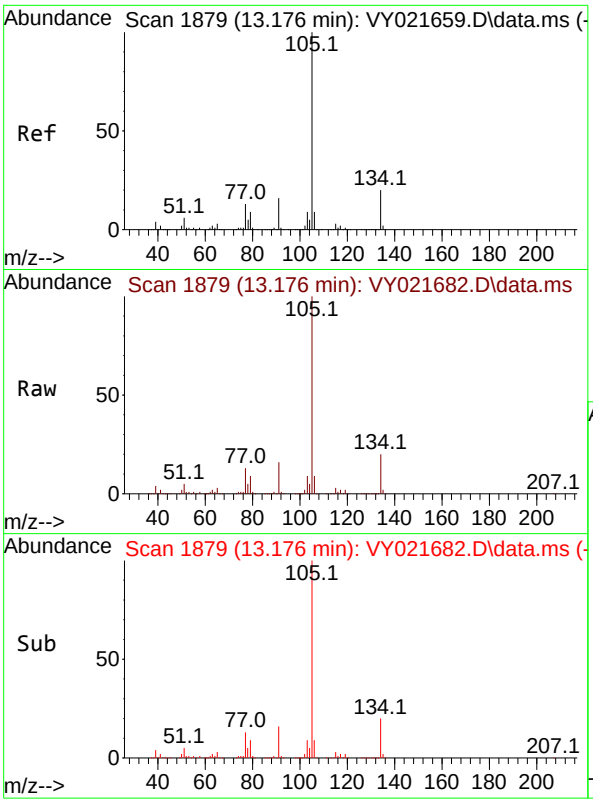


#84
1,2,4-Trimethylbenzene
Concen: 56.504 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:105 Resp: 512202

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.7	68.1

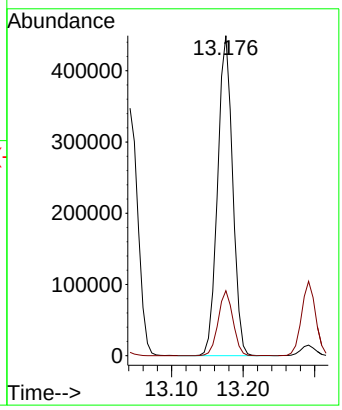




#85
sec-Butylbenzene
Concen: 54.761 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:105 Resp: 65376

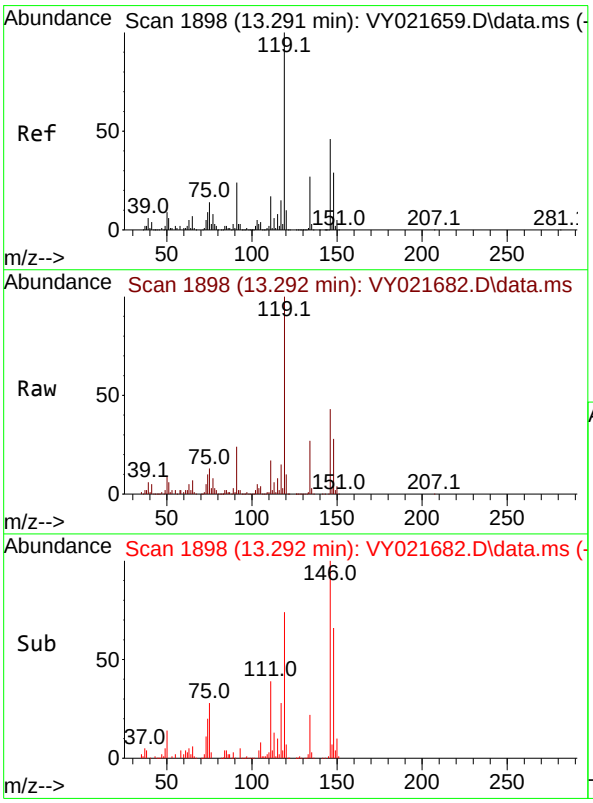
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

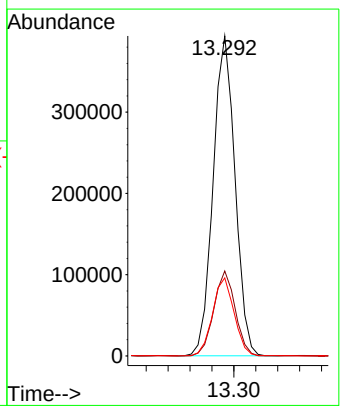
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

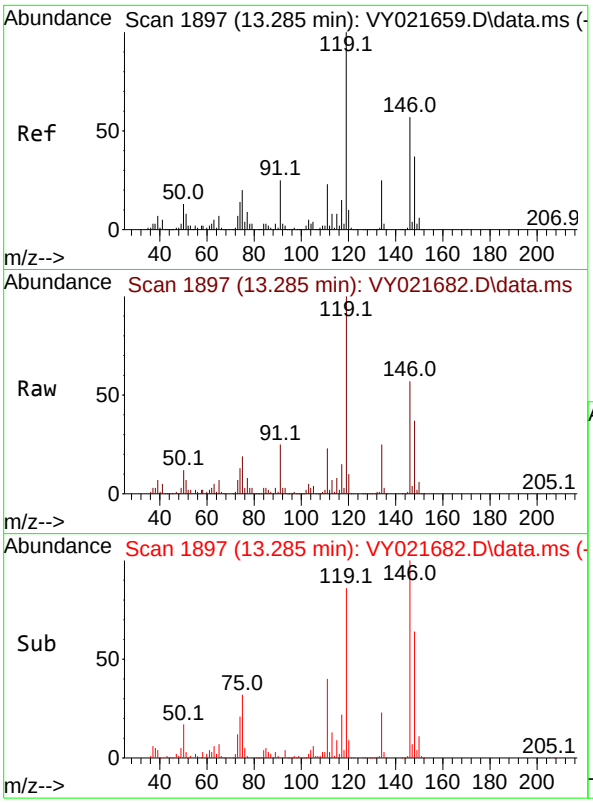


#86
p-Isopropyltoluene
Concen: 55.395 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:119 Resp: 546596

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.2	39.5
91	24.0	12.0	36.0

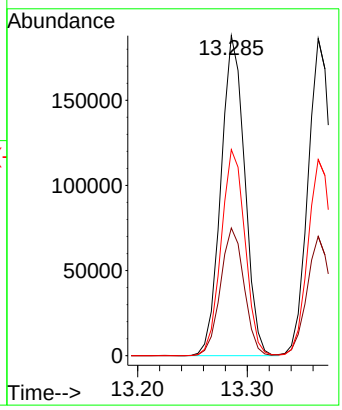




#87
1,3-Dichlorobenzene
Concen: 53.415 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

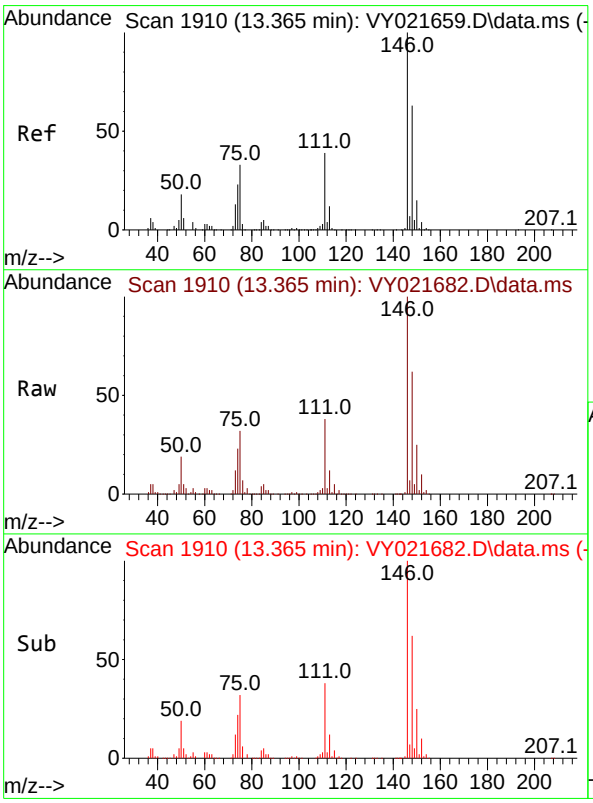
Tgt Ion:146 Resp: 28355

Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.0	60.0
148	64.4	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

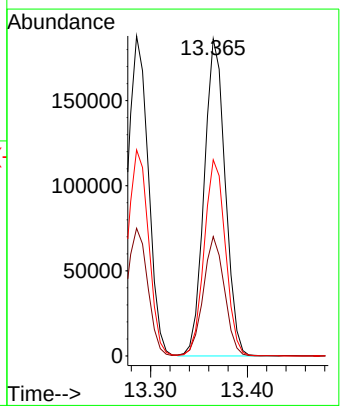
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

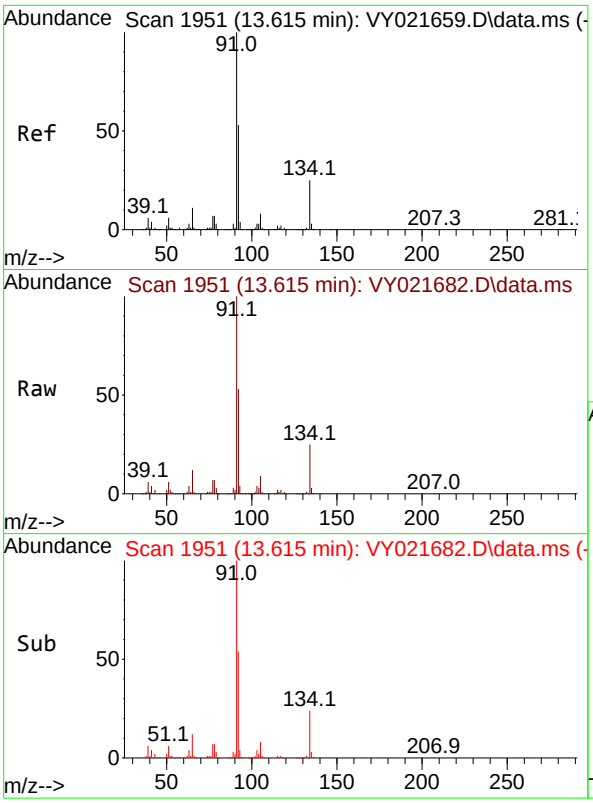


#88
1,4-Dichlorobenzene
Concen: 53.681 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:146 Resp: 281544

Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.1
148	62.6	31.5	94.5

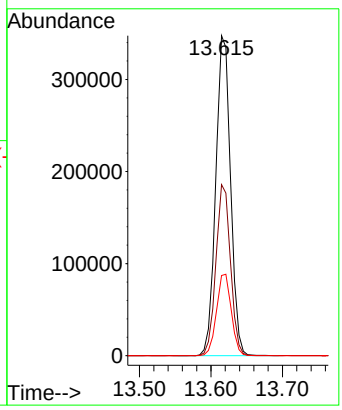




#89
n-Butylbenzene
Concen: 54.626 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 91 Resp: 49848

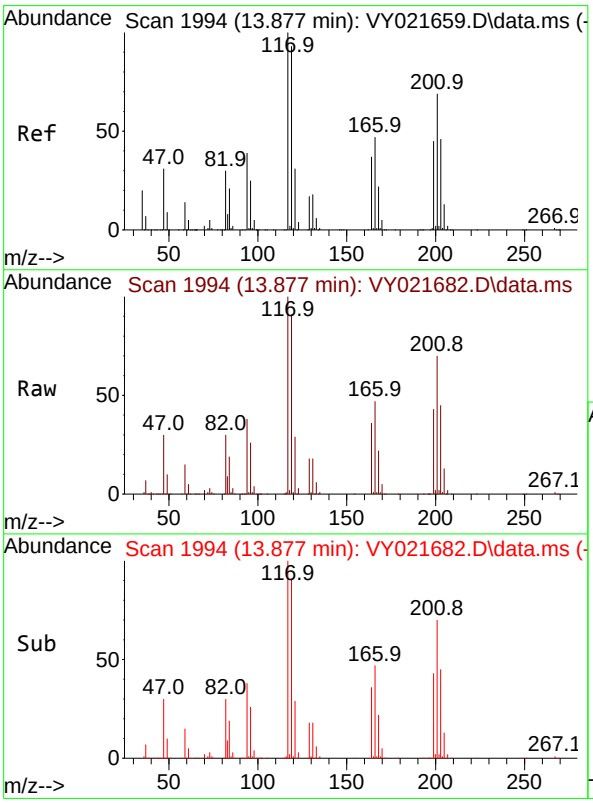
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.4	79.2
134	25.5	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

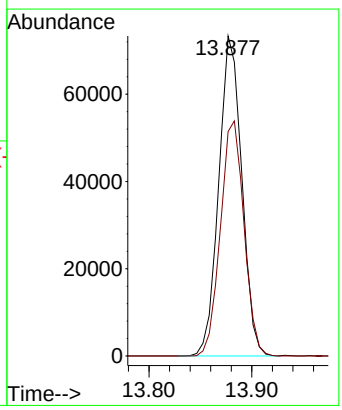
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

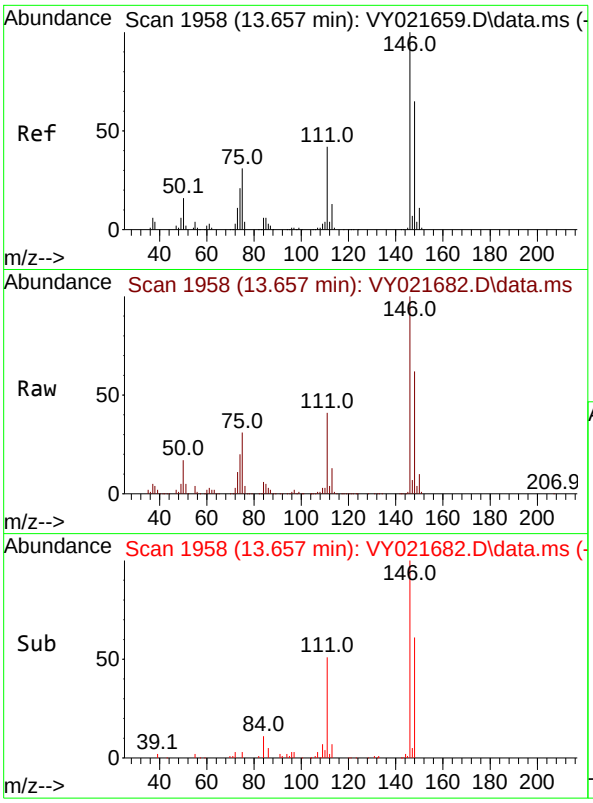


#90
Hexachloroethane
Concen: 52.605 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:117 Resp: 113745

Ion	Ratio	Lower	Upper
117	100		
201	75.4	37.4	112.1

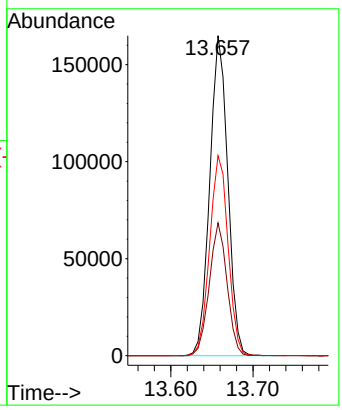




#91
1,2-Dichlorobenzene
Concen: 54.293 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:146 Resp: 25089

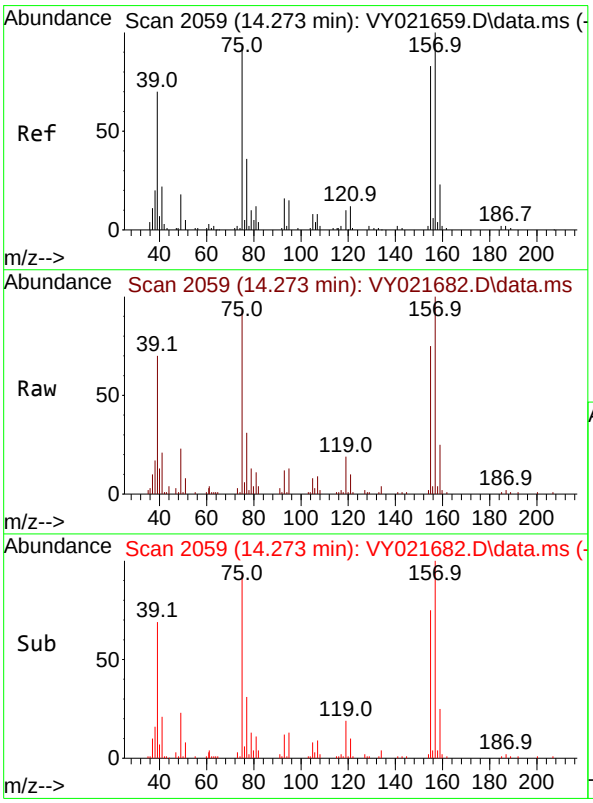
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.7	62.1
148	64.0	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

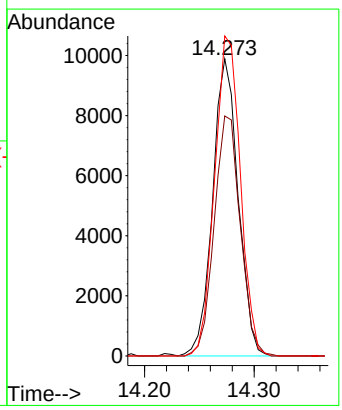
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

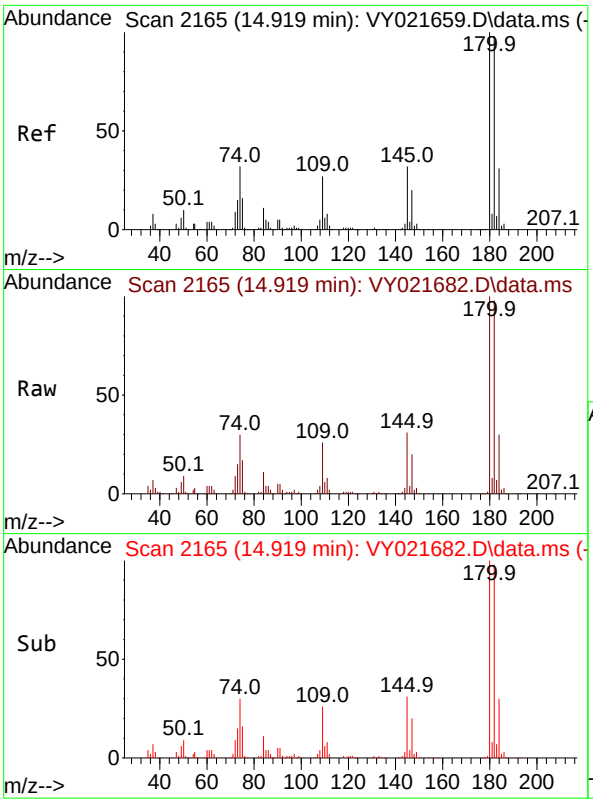


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.172 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion: 75 Resp: 16002

Ion	Ratio	Lower	Upper
75	100		
155	82.7	43.0	128.8
157	108.8	54.0	162.0

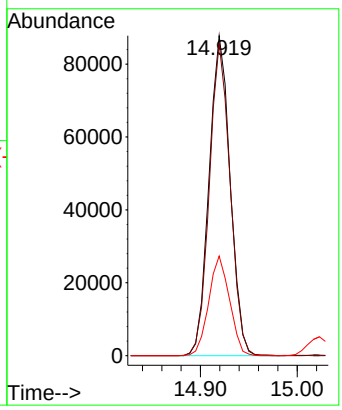




#93
1,2,4-Trichlorobenzene
Concen: 53.047 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:180 Resp: 13293

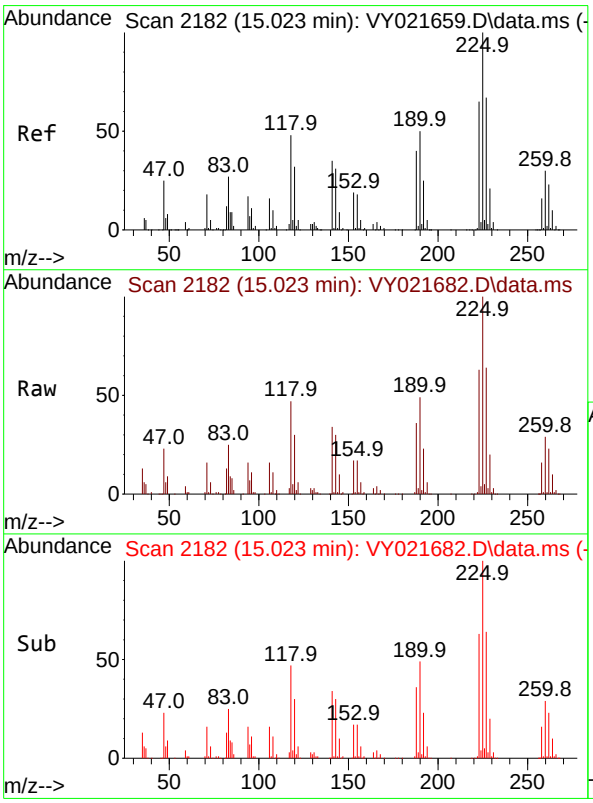
Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.5	142.6
145	30.8	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

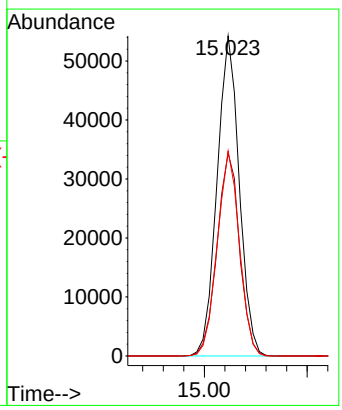
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

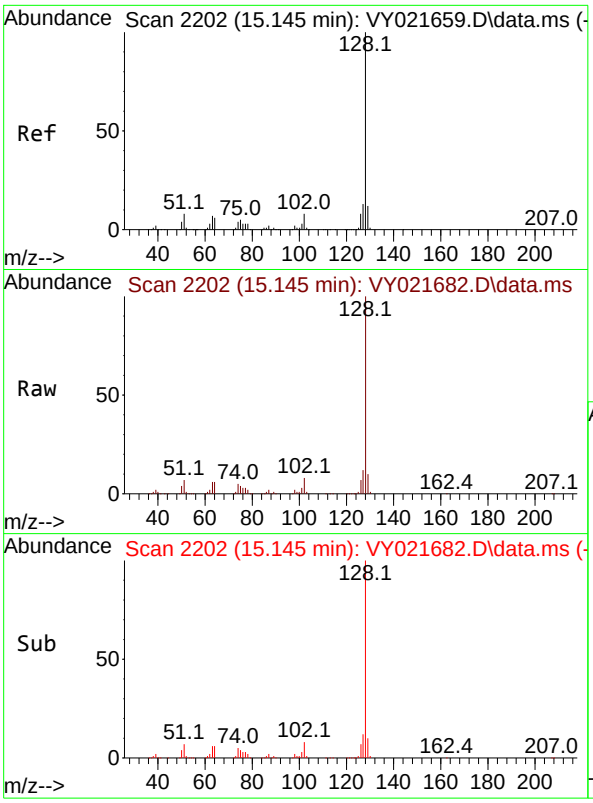


#94
Hexachlorobutadiene
Concen: 51.838 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:225 Resp: 81130

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.9	95.7
227	63.7	32.4	97.0

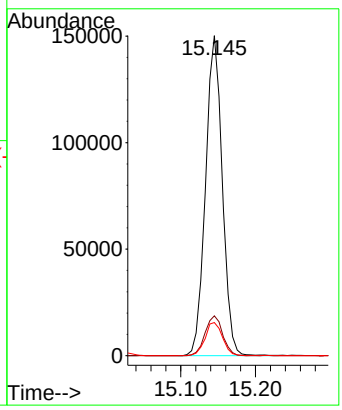




#95
Naphthalene
Concen: 56.275 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:128 Resp: 23375

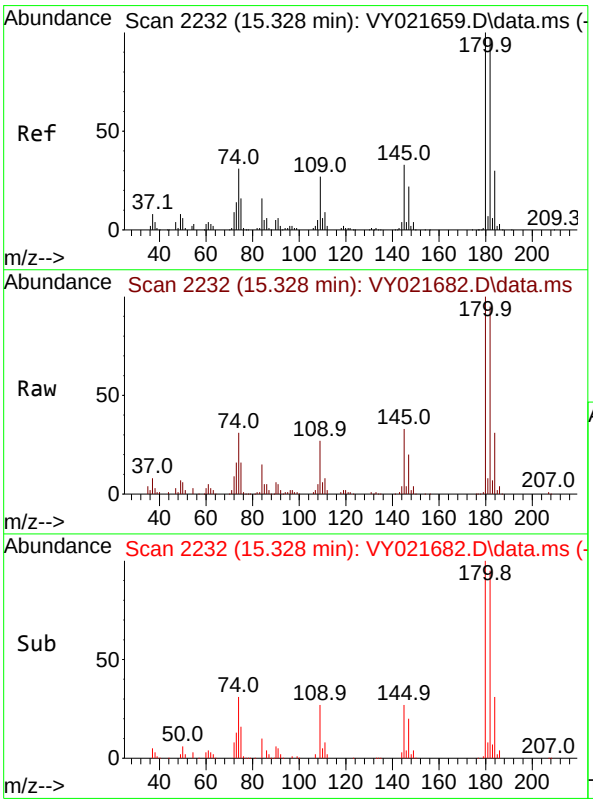
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.8	16.2
129	10.8	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

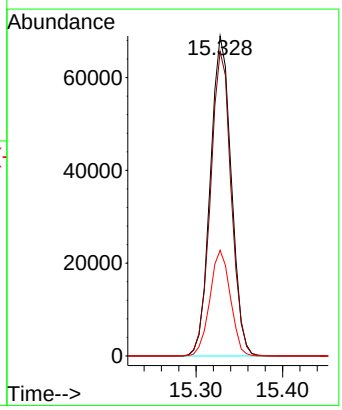
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.158 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021682.D
Acq: 28 Mar 2025 10:42

Tgt Ion:180 Resp: 115735

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.5	142.5
145	32.3	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
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: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	87	0.00
2	T	Dichlorodifluoromethane	0.518	0.530	-2.3	91	0.00
3	P	Chloromethane	0.729	0.818	-12.2	103	0.00
4	C	Vinyl Chloride	0.824	0.916	-11.2#	100	0.00
5	T	Bromomethane	0.562	0.598	-6.4	101	0.00
6	T	Chloroethane	0.539	0.606	-12.4	103	0.00
7	T	Trichlorofluoromethane	1.056	1.189	-12.6	102	0.00
8	T	Diethyl Ether	0.287	0.293	-2.1	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.557	0.578	-3.8	94	0.00
10	T	Methyl Iodide	0.611	0.691	-13.1	92	0.00
11	T	Tert butyl alcohol	0.035	0.036	-2.9	92	0.00
12	CM	1,1-Dichloroethene	0.524	0.560	-6.9#	95	0.00
13	T	Acrolein	0.064	0.061	4.7	84	0.00
14	T	Allyl chloride	0.836	0.910	-8.9	94	0.00
15	T	Acrylonitrile	0.120	0.133	-10.8	95	-0.01
16	T	Acetone	0.111	0.101	9.0	82	-0.01
17	T	Carbon Disulfide	1.727	1.890	-9.4	97	0.00
18	T	Methyl Acetate	0.275	0.325	-18.2	106	0.00
19	T	Methyl tert-butyl Ether	1.306	1.429	-9.4	94	0.00
20	T	Methylene Chloride	0.626	0.628	-0.3	97	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.638	-10.6	98	0.00
22	T	Diisopropyl ether	1.754	1.997	-13.9	96	0.00
23	T	Vinyl Acetate	1.026	1.148	-11.9	94	0.00
24	P	1,1-Dichloroethane	1.049	1.156	-10.2	97	0.00
25	T	2-Butanone	0.158	0.168	-6.3	92	0.00
26	T	2,2-Dichloropropane	0.933	0.998	-7.0	94	0.00
27	T	cis-1,2-Dichloroethene	0.649	0.724	-11.6	96	0.00
28	T	Bromochloromethane	0.442	0.496	-12.2	101	0.00
29	T	Tetrahydrofuran	0.102	0.114	-11.8	94	0.00
30	C	Chloroform	1.091	1.205	-10.4#	97	0.00
31	T	Cyclohexane	0.956	0.986	-3.1	93	0.00
32	T	1,1,1-Trichloroethane	0.986	1.064	-7.9	96	0.00
33	S	1,2-Dichloroethane-d4	0.542	0.600	-10.7	95	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
35	S	Dibromofluoromethane	0.324	0.359	-10.8	94	0.00
36	T	1,1-Dichloropropene	0.494	0.536	-8.5	95	0.00
37	T	Ethyl Acetate	0.233	0.251	-7.7	95	-0.01
38	T	Carbon Tetrachloride	0.566	0.608	-7.4	96	0.00
39	T	Methylcyclohexane	0.590	0.632	-7.1	91	0.00
40	TM	Benzene	1.479	1.639	-10.8	98	0.00
41	T	Methacrylonitrile	0.124	0.122	1.6	80	-0.01
42	TM	1,2-Dichloroethane	0.417	0.451	-8.2	96	0.00
43	T	Isopropyl Acetate	0.442	0.473	-7.0	94	0.00
44	TM	Trichloroethene	0.377	0.401	-6.4	96	0.00
45	C	1,2-Dichloropropane	0.350	0.389	-11.1#	98	0.00
46	T	Dibromomethane	0.202	0.222	-9.9	100	0.00
47	T	Bromodichloromethane	0.523	0.575	-9.9	98	0.00
48	T	Methyl methacrylate	0.203	0.233	-14.8	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
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: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	98	0.00
50	S	Toluene-d8	1.234	1.374	-11.3	94	0.00
51	T	4-Methyl-2-Pentanone	0.230	0.259	-12.6	96	0.00
52	CM	Toluene	0.923	1.039	-12.6#	97	0.00
53	T	t-1,3-Dichloropropene	0.465	0.520	-11.8	95	0.00
54	T	cis-1,3-Dichloropropene	0.548	0.601	-9.7	95	0.00
55	T	1,1,2-Trichloroethane	0.260	0.287	-10.4	98	0.00
56	T	Ethyl methacrylate	0.332	0.379	-14.2	92	0.00
57	T	1,3-Dichloropropane	0.449	0.497	-10.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.162	0.183	-13.0	91	0.00
59	T	2-Hexanone	0.153	0.174	-13.7	95	0.00
60	T	Dibromochloromethane	0.355	0.395	-11.3	97	0.00
61	T	1,2-Dibromoethane	0.244	0.268	-9.8	94	0.00
62	S	4-Bromofluorobenzene	0.417	0.467	-12.0	95	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64	T	Tetrachloroethene	0.455	0.464	-2.0	93	0.00
65	PM	Chlorobenzene	1.146	1.234	-7.7	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.407	0.441	-8.4	96	0.00
67	C	Ethyl Benzene	1.965	2.191	-11.5#	96	0.00
68	T	m/p-Xylenes	0.753	0.844	-12.1	97	0.00
69	T	o-Xylene	0.695	0.781	-12.4	95	0.00
70	T	Styrene	1.158	1.332	-15.0	97	0.00
71	P	Bromoform	0.232	0.258	-11.2	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.714	4.065	-9.5	96	0.00
74	T	N-amyl acetate	0.872	0.943	-8.1	93	0.00
75	P	1,1,2,2-Tetrachloroethane	0.668	0.704	-5.4	96	0.00
76	T	1,2,3-Trichloropropane	0.496	0.519	-4.6	94	0.00
77	T	Bromobenzene	0.892	0.963	-8.0	97	0.00
78	T	n-propylbenzene	4.465	4.937	-10.6	96	0.00
79	T	2-Chlorotoluene	2.593	2.822	-8.8	96	0.00
80	T	1,3,5-Trimethylbenzene	3.035	3.376	-11.2	97	0.00
81	T	trans-1,4-Dichloro-2-butene	0.215	0.226	-5.1	92	0.00
82	T	4-Chlorotoluene	2.704	2.905	-7.4	95	0.00
83	T	tert-Butylbenzene	2.703	2.961	-9.5	96	0.00
84	T	1,2,4-Trimethylbenzene	3.000	3.390	-13.0	97	0.00
85	T	sec-Butylbenzene	3.951	4.327	-9.5	95	0.00
86	T	p-Isopropyltoluene	3.265	3.618	-10.8	95	0.00
87	T	1,3-Dichlorobenzene	1.757	1.877	-6.8	97	0.00
88	T	1,4-Dichlorobenzene	1.736	1.863	-7.3	96	0.00
89	T	n-Butylbenzene	3.020	3.299	-9.2	94	0.00
90	T	Hexachloroethane	0.716	0.753	-5.2	96	0.00
91	T	1,2-Dichlorobenzene	1.529	1.661	-8.6	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.103	0.106	-2.9	93	0.00
93	T	1,2,4-Trichlorobenzene	0.829	0.880	-6.2	90	0.00
94	T	Hexachlorobutadiene	0.518	0.537	-3.7	92	0.00
95	T	Naphthalene	1.375	1.547	-12.5	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
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: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	0.707	0.766	-8.3	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
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: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	87	0.00
2	T	Dichlorodifluoromethane	50.000	51.172	-2.3	91	0.00
3	P	Chloromethane	50.000	56.105	-12.2	103	0.00
4	C	Vinyl Chloride	50.000	55.561	-11.1#	100	0.00
5	T	Bromomethane	50.000	53.234	-6.5	101	0.00
6	T	Chloroethane	50.000	56.216	-12.4	103	0.00
7	T	Trichlorofluoromethane	50.000	56.329	-12.7	102	0.00
8	T	Diethyl Ether	50.000	51.075	-2.2	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.906	-3.8	94	0.00
10	T	Methyl Iodide	50.000	56.574	-13.1	92	0.00
11	T	Tert butyl alcohol	250.000	253.367	-1.3	92	0.00
12	CM	1,1-Dichloroethene	50.000	53.393	-6.8#	95	0.00
13	T	Acrolein	250.000	238.457	4.6	84	0.00
14	T	Allyl chloride	50.000	54.441	-8.9	94	0.00
15	T	Acrylonitrile	250.000	276.449	-10.6	95	-0.01
16	T	Acetone	250.000	227.823	8.9	82	-0.01
17	T	Carbon Disulfide	50.000	54.712	-9.4	97	0.00
18	T	Methyl Acetate	50.000	59.104	-18.2	106	0.00
19	T	Methyl tert-butyl Ether	50.000	54.737	-9.5	94	0.00
20	T	Methylene Chloride	50.000	58.520	-17.0	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.253	-10.5	98	0.00
22	T	Diisopropyl ether	50.000	56.920	-13.8	96	0.00
23	T	Vinyl Acetate	250.000	279.709	-11.9	94	0.00
24	P	1,1-Dichloroethane	50.000	55.116	-10.2	97	0.00
25	T	2-Butanone	250.000	264.748	-5.9	92	0.00
26	T	2,2-Dichloropropane	50.000	53.485	-7.0	94	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.755	-11.5	96	0.00
28	T	Bromochloromethane	50.000	56.065	-12.1	101	0.00
29	T	Tetrahydrofuran	250.000	279.112	-11.6	94	0.00
30	C	Chloroform	50.000	55.216	-10.4#	97	0.00
31	T	Cyclohexane	50.000	51.546	-3.1	93	0.00
32	T	1,1,1-Trichloroethane	50.000	53.954	-7.9	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	55.364	-10.7	95	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	89	0.00
35	S	Dibromofluoromethane	50.000	55.365	-10.7	94	0.00
36	T	1,1-Dichloropropene	50.000	54.246	-8.5	95	0.00
37	T	Ethyl Acetate	50.000	53.833	-7.7	95	-0.01
38	T	Carbon Tetrachloride	50.000	53.710	-7.4	96	0.00
39	T	Methylcyclohexane	50.000	53.572	-7.1	91	0.00
40	TM	Benzene	50.000	55.404	-10.8	98	0.00
41	T	Methacrylonitrile	50.000	49.359	1.3	80	-0.01
42	TM	1,2-Dichloroethane	50.000	54.112	-8.2	96	0.00
43	T	Isopropyl Acetate	50.000	53.555	-7.1	94	0.00
44	TM	Trichloroethene	50.000	53.202	-6.4	96	0.00
45	C	1,2-Dichloropropane	50.000	55.510	-11.0#	98	0.00
46	T	Dibromomethane	50.000	55.056	-10.1	100	0.00
47	T	Bromodichloromethane	50.000	54.928	-9.9	98	0.00
48	T	Methyl methacrylate	50.000	57.497	-15.0	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
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: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	1130.995	-13.1	98	0.00
50	S	Toluene-d8	50.000	55.693	-11.4	94	0.00
51	T	4-Methyl-2-Pentanone	250.000	281.850	-12.7	96	0.00
52	CM	Toluene	50.000	56.286	-12.6#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	55.935	-11.9	95	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.800	-9.6	95	0.00
55	T	1,1,2-Trichloroethane	50.000	55.283	-10.6	98	0.00
56	T	Ethyl methacrylate	50.000	57.148	-14.3	92	0.00
57	T	1,3-Dichloropropane	50.000	55.418	-10.8	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	283.541	-13.4	91	0.00
59	T	2-Hexanone	250.000	284.379	-13.8	95	0.00
60	T	Dibromochloromethane	50.000	55.650	-11.3	97	0.00
61	T	1,2-Dibromoethane	50.000	55.054	-10.1	94	0.00
62	S	4-Bromofluorobenzene	50.000	55.943	-11.9	95	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64	T	Tetrachloroethene	50.000	50.915	-1.8	93	0.00
65	PM	Chlorobenzene	50.000	53.850	-7.7	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.168	-8.3	96	0.00
67	C	Ethyl Benzene	50.000	55.731	-11.5#	96	0.00
68	T	m/p-Xylenes	100.000	112.193	-12.2	97	0.00
69	T	o-Xylene	50.000	56.184	-12.4	95	0.00
70	T	Styrene	50.000	57.510	-15.0	97	0.00
71	P	Bromoform	50.000	55.504	-11.0	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	54.731	-9.5	96	0.00
74	T	N-amyl acetate	50.000	54.111	-8.2	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.733	-5.5	96	0.00
76	T	1,2,3-Trichloropropane	50.000	52.378	-4.8	94	0.00
77	T	Bromobenzene	50.000	53.988	-8.0	97	0.00
78	T	n-propylbenzene	50.000	55.292	-10.6	96	0.00
79	T	2-Chlorotoluene	50.000	54.411	-8.8	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	55.616	-11.2	97	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.602	-5.2	92	0.00
82	T	4-Chlorotoluene	50.000	53.730	-7.5	95	0.00
83	T	tert-Butylbenzene	50.000	54.771	-9.5	96	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.504	-13.0	97	0.00
85	T	sec-Butylbenzene	50.000	54.761	-9.5	95	0.00
86	T	p-Isopropyltoluene	50.000	55.395	-10.8	95	0.00
87	T	1,3-Dichlorobenzene	50.000	53.415	-6.8	97	0.00
88	T	1,4-Dichlorobenzene	50.000	53.681	-7.4	96	0.00
89	T	n-Butylbenzene	50.000	54.626	-9.3	94	0.00
90	T	Hexachloroethane	50.000	52.605	-5.2	96	0.00
91	T	1,2-Dichlorobenzene	50.000	54.293	-8.6	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.172	-2.3	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.047	-6.1	90	0.00
94	T	Hexachlorobutadiene	50.000	51.838	-3.7	92	0.00
95	T	Naphthalene	50.000	56.275	-12.5	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021682.D
Acq On : 28 Mar 2025 10:42
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: Mar 28 23:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	54.158	-8.3	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: MSVOA_Y Calibration Date/Time: 04/01/2025 10:13

Lab File ID: VY021731.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.503		-2.9	20
Chloromethane	0.729	0.661	0.1	-9.33	20
Vinyl Chloride	0.824	0.773		-6.19	20
Bromomethane	0.562	0.514		-8.54	20
Chloroethane	0.539	0.495		-8.16	20
Trichlorofluoromethane	1.056	1.042		-1.33	20
1,1,2-Trichlorotrifluoroethane	0.557	0.558		0.18	20
1,1-Dichloroethene	0.524	0.526		0.38	20
Acetone	0.111	0.089		-19.82	20
Carbon Disulfide	1.727	1.673		-3.13	20
Methyl tert-butyl Ether	1.306	1.321		1.15	20
Methyl Acetate	0.275	0.287		4.36	20
Methylene Chloride	0.626	0.569		-9.1	20
trans-1,2-Dichloroethene	0.577	0.583		1.04	20
1,1-Dichloroethane	1.049	1.041	0.1	-0.76	20
Cyclohexane	0.956	0.916		-4.18	20
2-Butanone	0.158	0.142		-10.13	20
Carbon Tetrachloride	0.566	0.583		3	20
cis-1,2-Dichloroethene	0.649	0.669		3.08	20
Bromochloromethane	0.442	0.402		-9.05	20
Chloroform	1.091	1.087		-0.37	20
1,1,1-Trichloroethane	0.986	0.985		-0.1	20
Methylcyclohexane	0.590	0.628		6.44	20
Benzene	1.479	1.490		0.74	20
1,2-Dichloroethane	0.417	0.409		-1.92	20
Trichloroethene	0.377	0.389		3.18	20
1,2-Dichloropropane	0.350	0.354		1.14	20
Bromodichloromethane	0.523	0.529		1.15	20
4-Methyl-2-Pentanone	0.230	0.225		-2.17	20
Toluene	0.923	0.962		4.22	20
t-1,3-Dichloropropene	0.465	0.479		3.01	20
cis-1,3-Dichloropropene	0.548	0.555		1.28	20
1,1,2-Trichloroethane	0.260	0.267		2.69	20
2-Hexanone	0.153	0.149		-2.61	20
Dibromochloromethane	0.355	0.369		3.94	20
1,2-Dibromoethane	0.244	0.251		2.87	20
Tetrachloroethene	0.455	0.465		2.2	20
Chlorobenzene	1.146	1.163	0.3	1.48	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: MSVOA_Y Calibration Date/Time: 04/01/2025 10:13

Lab File ID: VY021731.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.965	2.068		5.24	20
m/p-Xylenes	0.753	0.791		5.05	20
o-Xylene	0.695	0.744		7.05	20
Styrene	1.158	1.265		9.24	20
Bromoform	0.232	0.240	0.1	3.45	20
Isopropylbenzene	3.714	3.927		5.74	20
1,1,2,2-Tetrachloroethane	0.668	0.646	0.3	-3.29	20
1,3-Dichlorobenzene	1.757	1.808		2.9	20
1,4-Dichlorobenzene	1.736	1.750		0.81	20
1,2-Dichlorobenzene	1.529	1.568		2.55	20
1,2-Dibromo-3-Chloropropane	0.103	0.099		-3.88	20
1,2,4-Trichlorobenzene	0.829	0.905		9.17	20
1,2,3-Trichlorobenzene	0.707	0.756		6.93	20
1,2-Dichloroethane-d4	0.542	0.509		-6.09	20
Dibromofluoromethane	0.324	0.320		-1.24	20
Toluene-d8	1.234	1.227		-0.57	20
4-Bromofluorobenzene	0.417	0.421		0.96	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\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	267136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	417982	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	368359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	185609	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	136075	47.014	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.020%			
35) Dibromofluoromethane	7.628	113	133944	49.401	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.800%			
50) Toluene-d8	10.103	98	513066	49.740	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.480%			
62) 4-Bromofluorobenzene	12.407	95	176122	50.479	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.960%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	134416	48.547	ug/l	99
3) Chloromethane	2.068	50	176456	45.323	ug/l	99
4) Vinyl Chloride	2.202	62	206500	46.900	ug/l	99
5) Bromomethane	2.592	94	137266	45.709	ug/l	96
6) Chloroethane	2.732	64	132294	45.918	ug/l	97
7) Trichlorofluoromethane	3.055	101	278436	49.366	ug/l	95
8) Diethyl Ether	3.452	74	74100	48.310	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.811	101	148970	50.077	ug/l	99
10) Methyl Iodide	4.000	142	170850	52.351	ug/l	99
11) Tert butyl alcohol	4.860	59	42437	225.735	ug/l	97
12) 1,1-Dichloroethene	3.787	96	140564	50.166	ug/l	96
13) Acrolein	3.647	56	48810	142.192	ug/l	100
14) Allyl chloride	4.378	41	218387	48.883	ug/l	98
15) Acrylonitrile	5.049	53	152707	238.441	ug/l	99
16) Acetone	3.866	43	118444	199.954	ug/l	100
17) Carbon Disulfide	4.104	76	446985	48.433	ug/l	100
18) Methyl Acetate	4.378	43	76579	52.162	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	352917	50.590	ug/l	97
20) Methylene Chloride	4.610	84	152033	52.656	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	155717	50.474	ug/l	96
22) Diisopropyl ether	6.018	45	466330	49.759	ug/l	98
23) Vinyl Acetate	5.957	43	1338386	244.119	ug/l	99
24) 1,1-Dichloroethane	5.915	63	278076	49.622	ug/l	99
25) 2-Butanone	6.890	43	190328	224.955	ug/l	98
26) 2,2-Dichloropropane	6.884	77	247075	49.566	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	178722	51.514	ug/l	97
28) Bromochloromethane	7.238	49	107313	45.407	ug/l	96
29) Tetrahydrofuran	7.256	42	130067	238.865	ug/l	99
30) Chloroform	7.414	83	290391	49.822	ug/l	98
31) Cyclohexane	7.701	56	244653	47.893	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	263084	49.940	ug/l	99
36) 1,1-Dichloropropene	7.835	75	209338	50.689	ug/l	99
37) Ethyl Acetate	6.975	43	91307	46.847	ug/l	100
38) Carbon Tetrachloride	7.817	117	243670	51.515	ug/l	98
39) Methylcyclohexane	9.109	83	262352	53.177	ug/l	98
40) Benzene	8.079	78	622767	50.353	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	49923	48.231	ug/l	#	100
42) 1,2-Dichloroethane	8.152	62	170747	48.971	ug/l		100
43) Isopropyl Acetate	8.195	43	179833	48.688	ug/l		99
44) Trichloroethene	8.859	130	162593	51.597	ug/l		98
45) 1,2-Dichloropropane	9.140	63	148025	50.563	ug/l		99
46) Dibromomethane	9.231	93	84173	49.889	ug/l		98
47) Bromodichloromethane	9.420	83	221026	50.556	ug/l		99
48) Methyl methacrylate	9.219	41	84385	49.779	ug/l		99
49) 1,4-Dioxane	9.225	88	18431	1019.727	ug/l		90
51) 4-Methyl-2-Pentanone	9.999	43	470787	244.928	ug/l		100
52) Toluene	10.170	92	402014	52.098	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	200228	51.562	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	232150	50.675	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	111496	51.351	ug/l		97
56) Ethyl methacrylate	10.438	69	147342	53.145	ug/l		98
57) 1,3-Dichloropropane	10.713	76	189537	50.545	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	353396	261.293	ug/l		99
59) 2-Hexanone	10.761	43	310936	242.897	ug/l		97
60) Dibromochloromethane	10.908	129	154318	52.056	ug/l		99
61) 1,2-Dibromoethane	11.011	107	104915	51.510	ug/l		98
64) Tetrachloroethene	10.646	164	171463	51.108	ug/l		99
65) Chlorobenzene	11.438	112	428457	50.741	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	154021	51.410	ug/l		100
67) Ethyl Benzene	11.517	91	761863	52.616	ug/l		100
68) m/p-Xylenes	11.627	106	583007	105.148	ug/l		99
69) o-Xylene	11.956	106	274181	53.570	ug/l		100
70) Styrene	11.968	104	466097	54.619	ug/l		98
71) Bromoform	12.133	173	88511	51.793	ug/l	#	99
73) Isopropylbenzene	12.255	105	728894	52.872	ug/l		99
74) N-amyl acetate	12.072	43	160475	49.600	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	119944	48.393	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	91070m	49.498	ug/l		
77) Bromobenzene	12.535	156	169113	51.092	ug/l		99
78) n-propylbenzene	12.596	91	876144	52.863	ug/l		99
79) 2-Chlorotoluene	12.682	91	498171	51.750	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	597954	53.071	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	40075	50.188	ug/l		99
82) 4-Chlorotoluene	12.779	91	513706	51.186	ug/l		99
83) tert-Butylbenzene	12.999	119	533297	53.141	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	587932	52.796	ug/l		99
85) sec-Butylbenzene	13.176	105	778157	53.059	ug/l		100
86) p-Isopropyltoluene	13.291	119	652775	53.853	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	335519	51.450	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	324792	50.410	ug/l		98
89) n-Butylbenzene	13.621	91	599905	53.515	ug/l		100
90) Hexachloroethane	13.883	117	133741	50.349	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	291106	51.280	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18431	47.978	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	167937	54.551	ug/l		100
94) Hexachlorobutadiene	15.029	225	101814	52.955	ug/l		99
95) Naphthalene	15.145	128	281604	55.186	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	140280	53.436	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

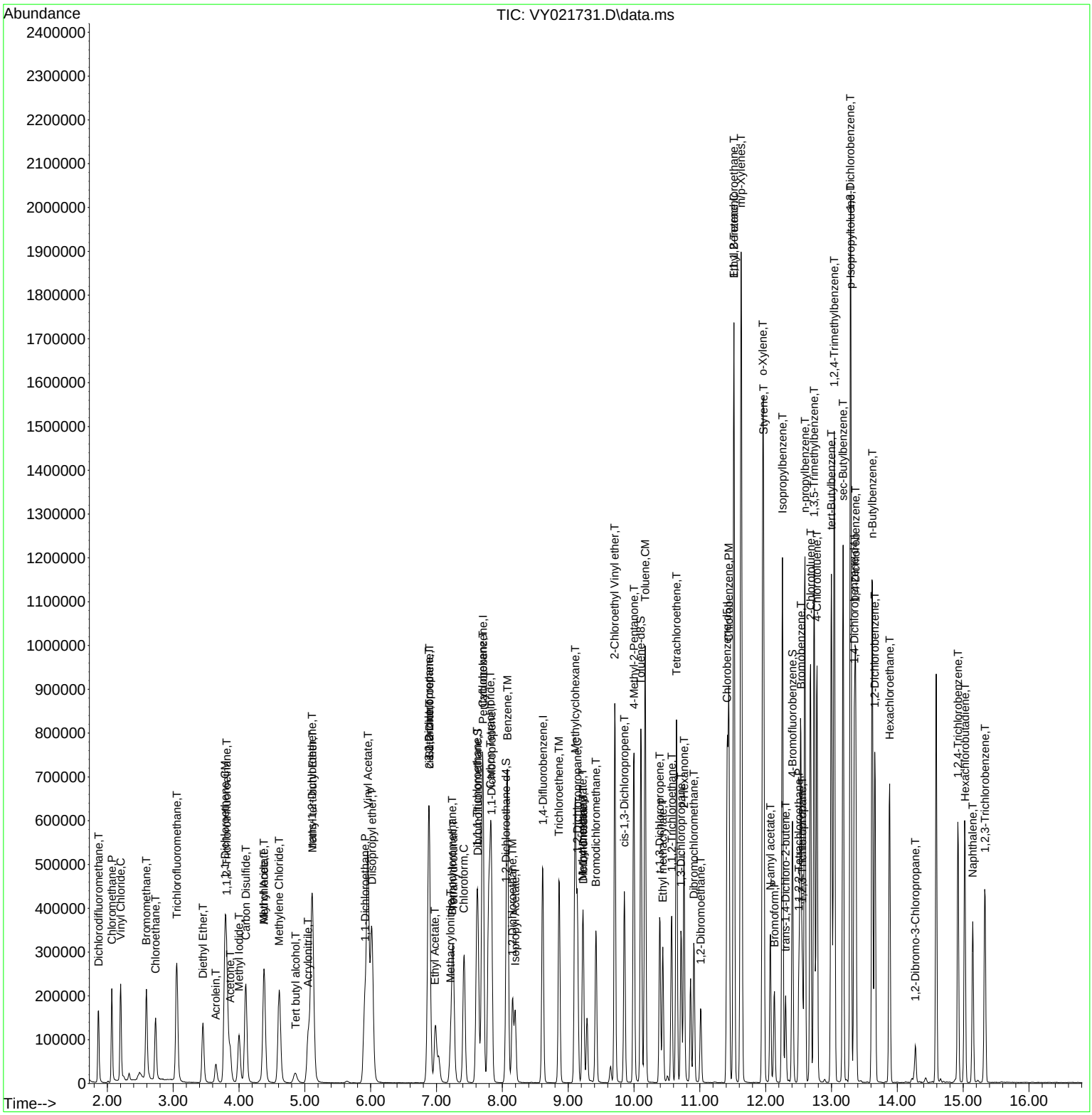
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

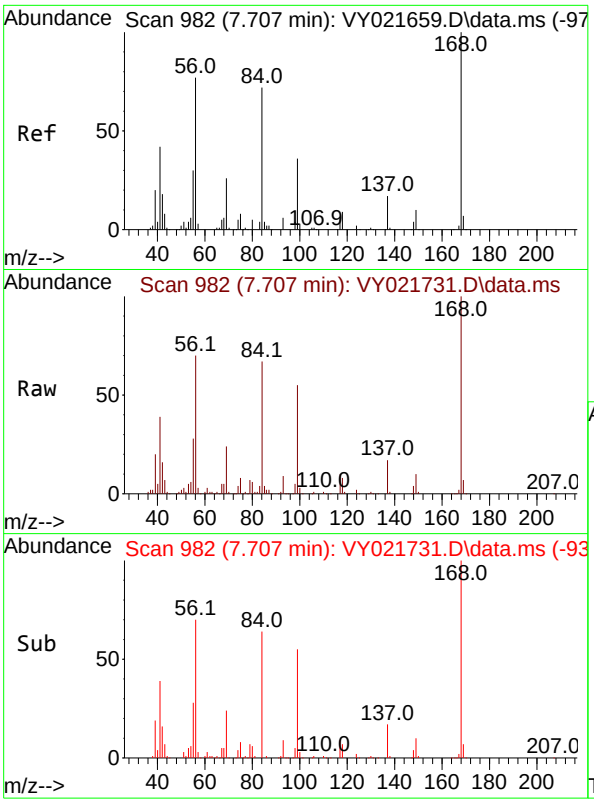
Quant Time: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

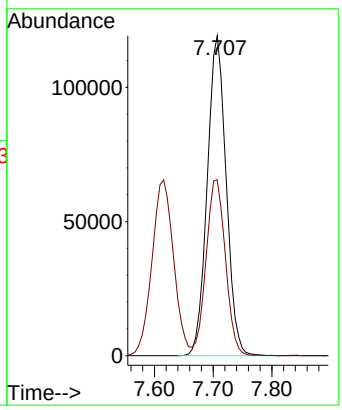




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:168 Resp: 26713

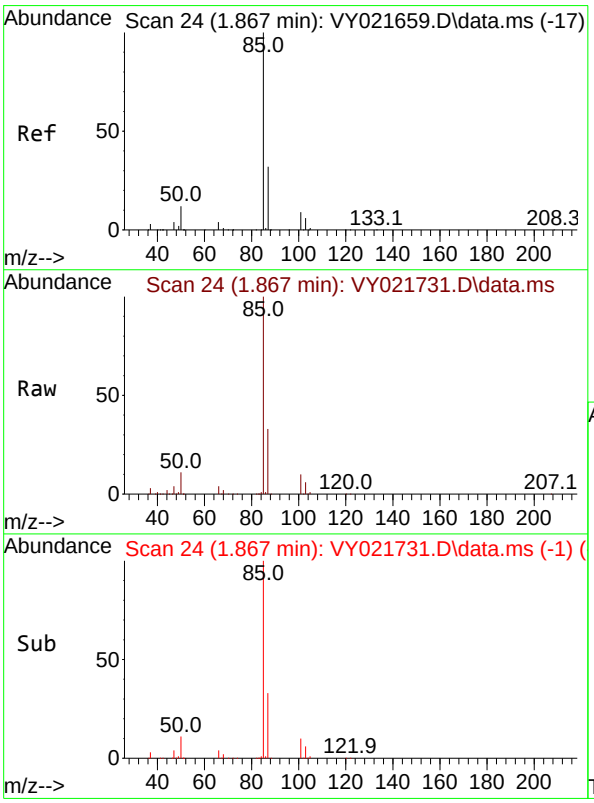
Ion	Ratio	Lower	Upper
168	100		
99	54.9	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

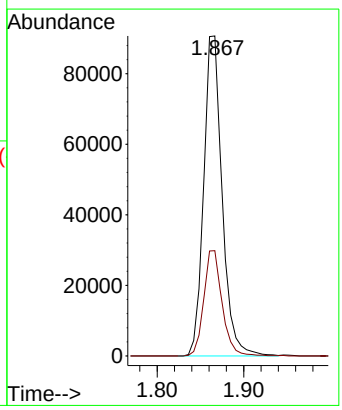
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

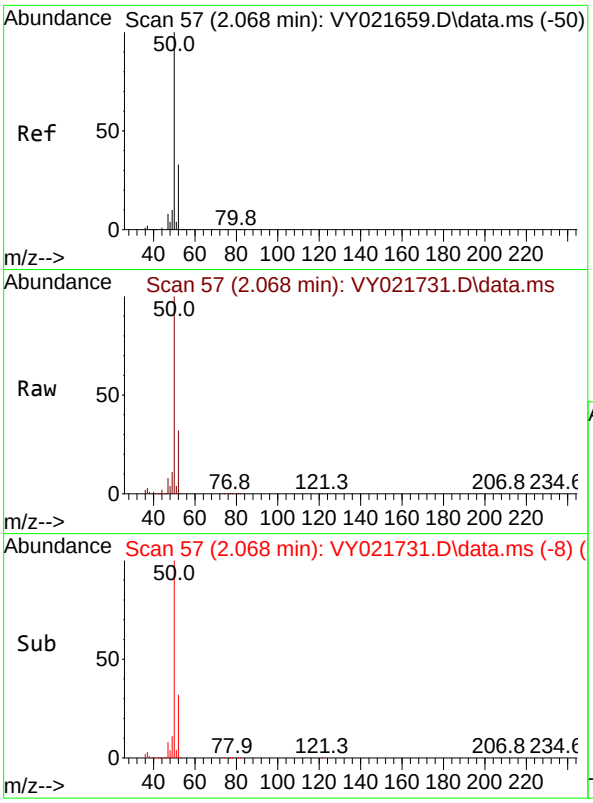


#2
Dichlorodifluoromethane
Concen: 48.547 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 85 Resp: 134416

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.2	48.6

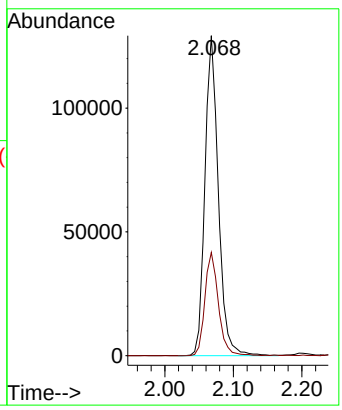




#3
Chloromethane
Concen: 45.323 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 50 Resp: 17645

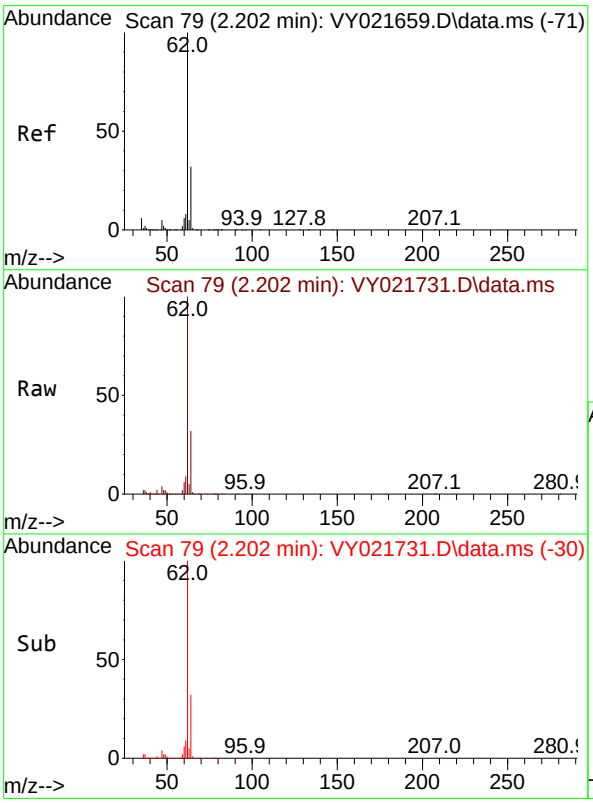
Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

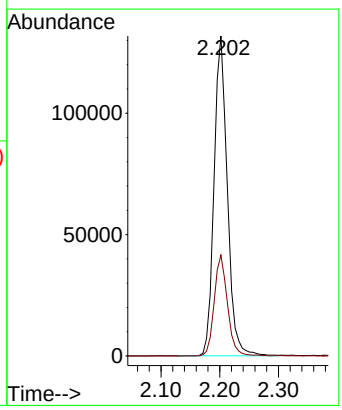
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

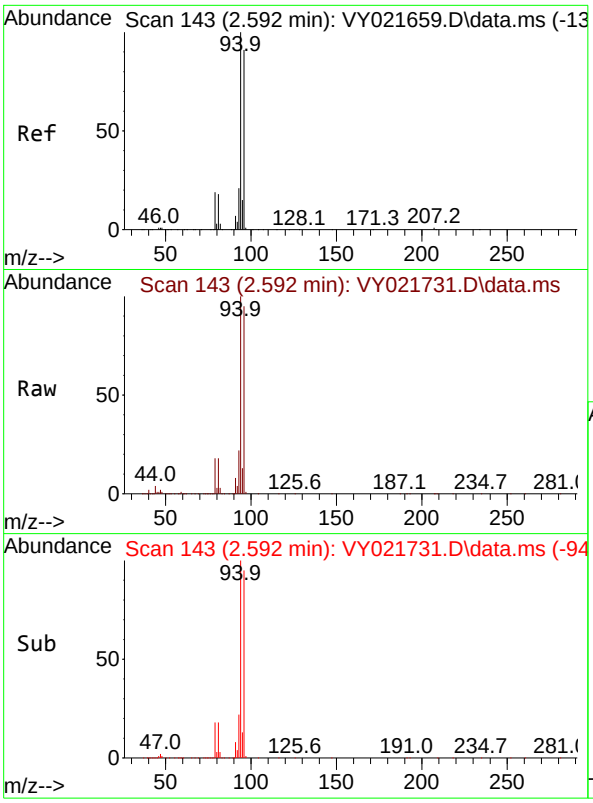


#4
Vinyl Chloride
Concen: 46.900 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 62 Resp: 206500

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.5	38.3

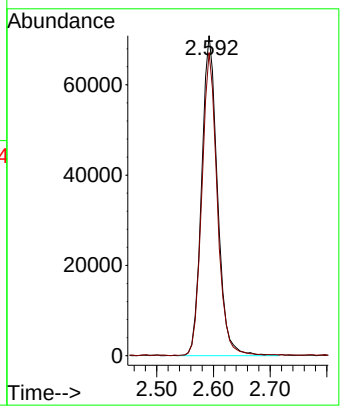




#5
Bromomethane
Concen: 45.709 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 94 Resp: 13726

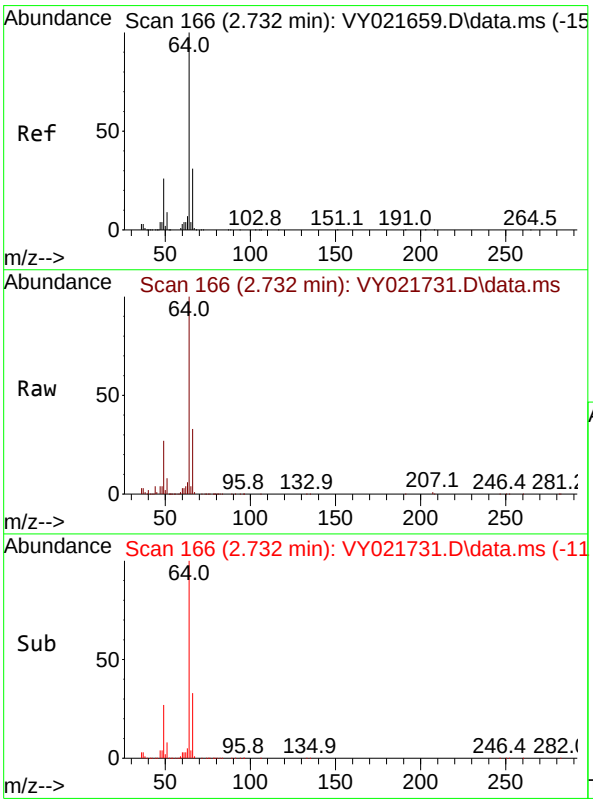
Ion	Ratio	Lower	Upper
94	100		
96	94.7	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

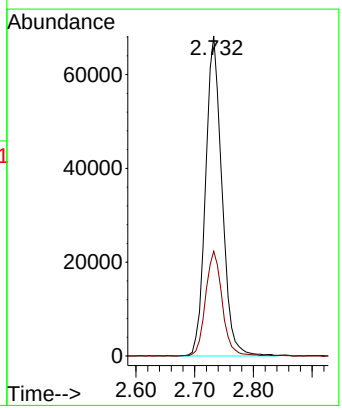
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

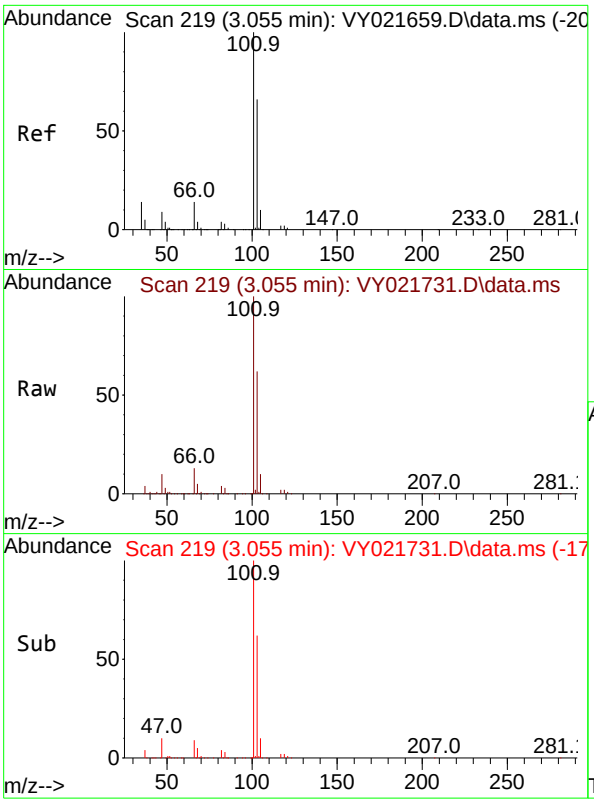


#6
Chloroethane
Concen: 45.918 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 64 Resp: 132294

Ion	Ratio	Lower	Upper
64	100		
66	32.7	24.9	37.3

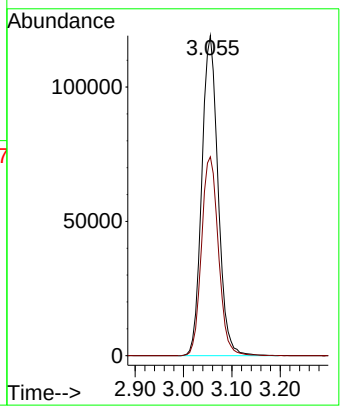




#7
Trichlorofluoromethane
Concen: 49.366 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:101 Resp: 27843(

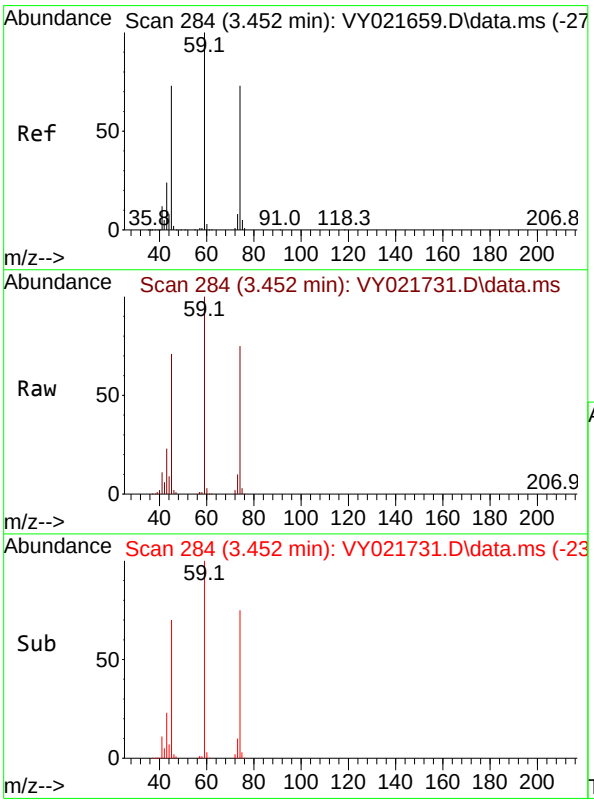
Ion	Ratio	Lower	Upper
101	100		
103	62.1	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

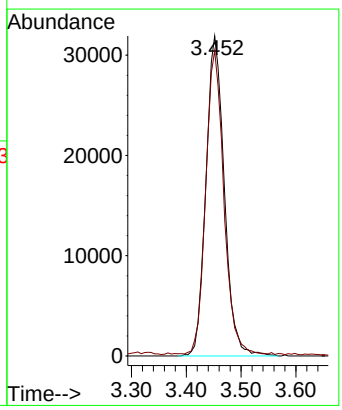
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

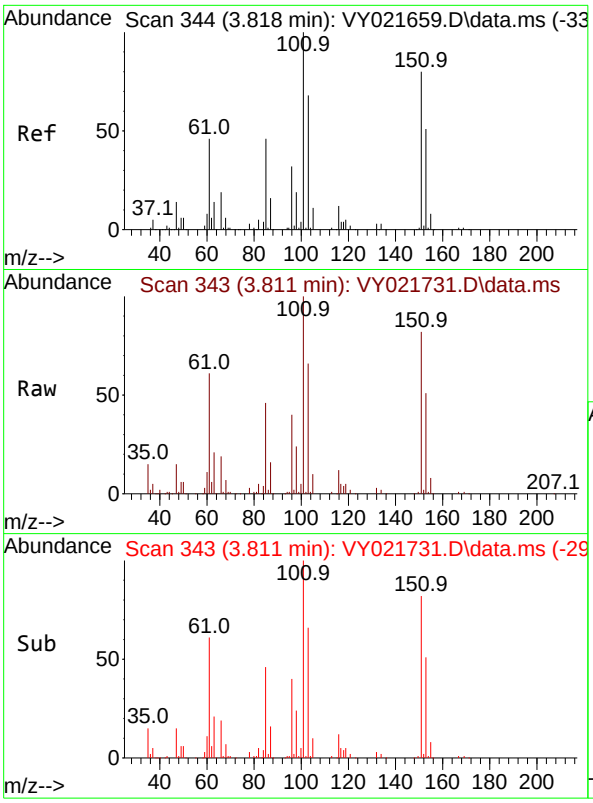


#8
Diethyl Ether
Concen: 48.310 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 74 Resp: 74100

Ion	Ratio	Lower	Upper
74	100		
45	92.9	48.6	145.8

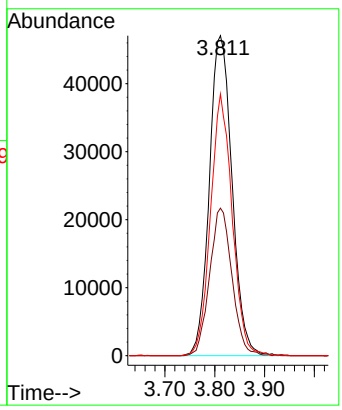




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.077 ug/l
RT: 3.811 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:101 Resp: 14897

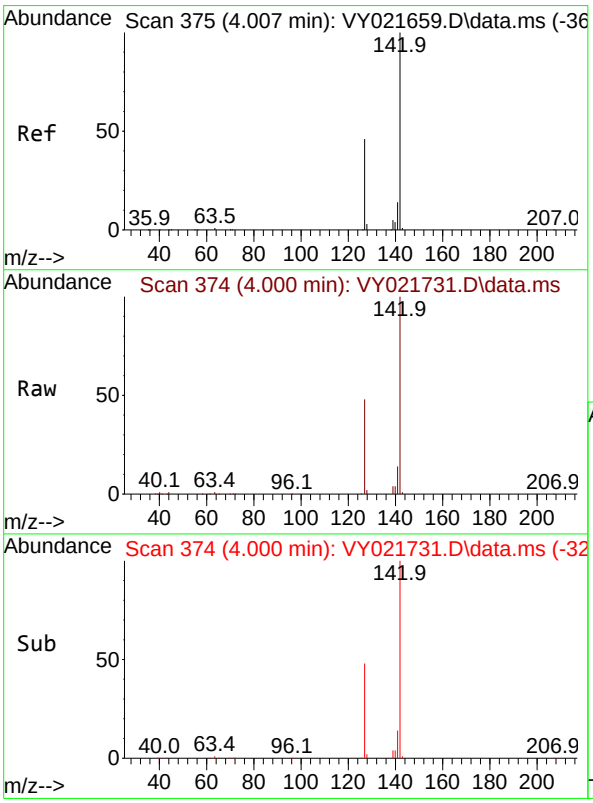
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.3	54.5
151	77.9	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

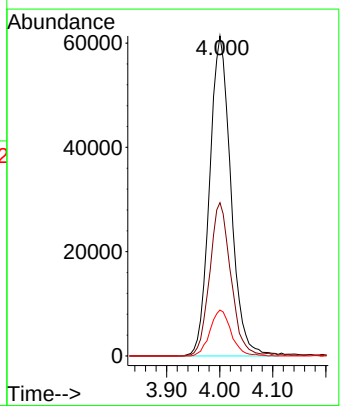
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

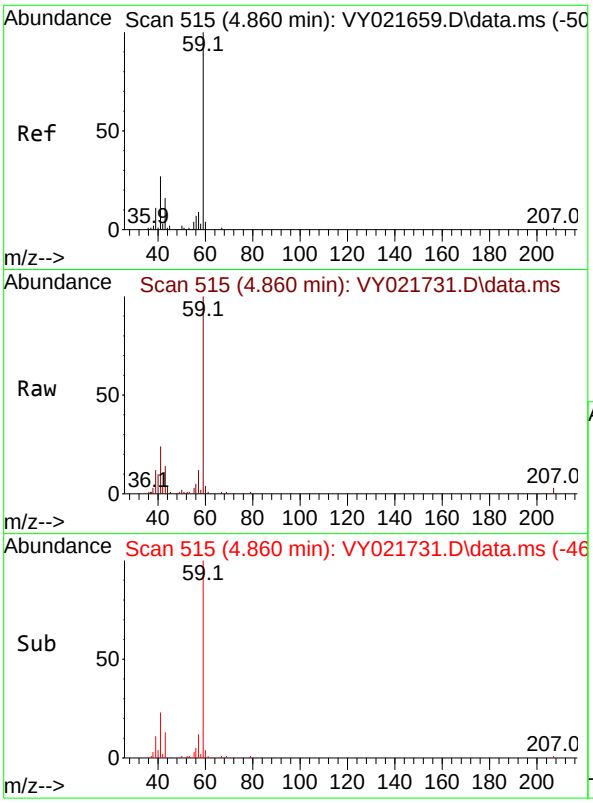


#10
Methyl Iodide
Concen: 52.351 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:142 Resp: 170850

Ion	Ratio	Lower	Upper
142	100		
127	47.6	38.7	58.1
141	14.3	11.5	17.3





#11
Tert butyl alcohol
Concen: 225.735 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

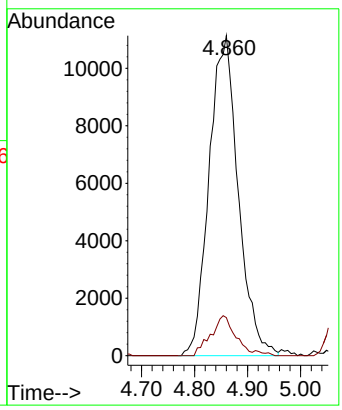
Tgt Ion: 59 Resp: 4243

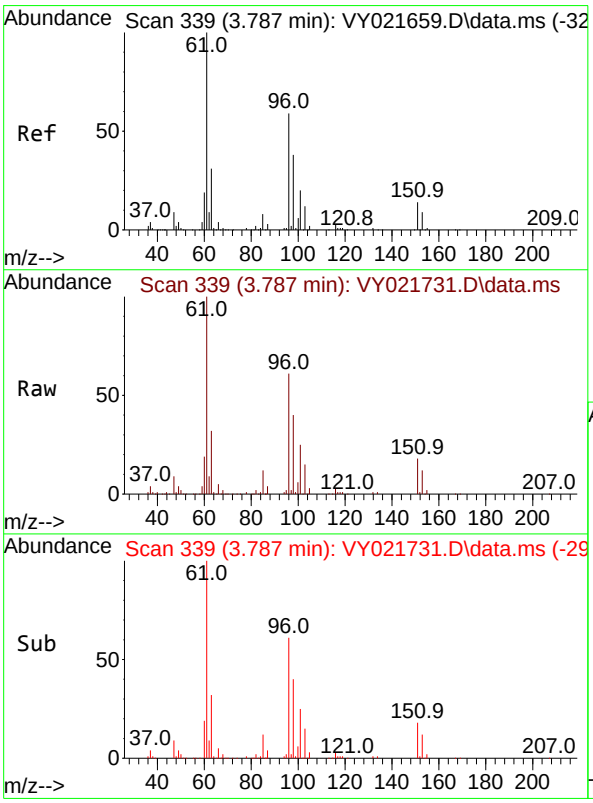
Ion	Ratio	Lower	Upper
59	100		
57	10.4	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

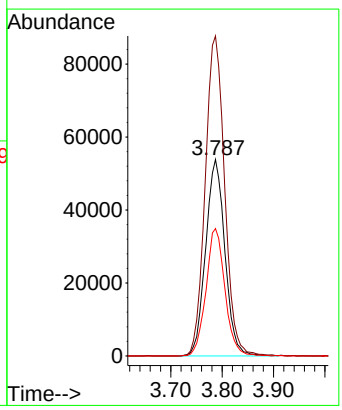


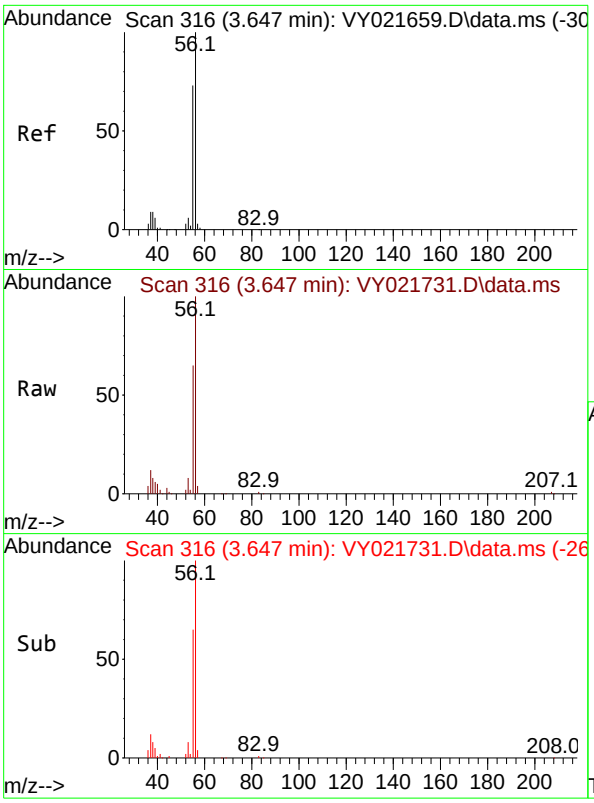


#12
1,1-Dichloroethene
Concen: 50.166 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 96 Resp: 140564

Ion	Ratio	Lower	Upper
96	100		
61	162.9	136.6	204.8
98	64.8	52.3	78.5

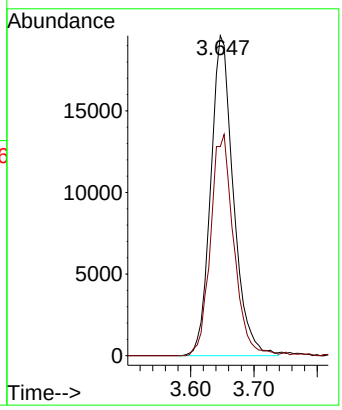




#13
Acrolein
Concen: 142.192 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 56 Resp: 4881

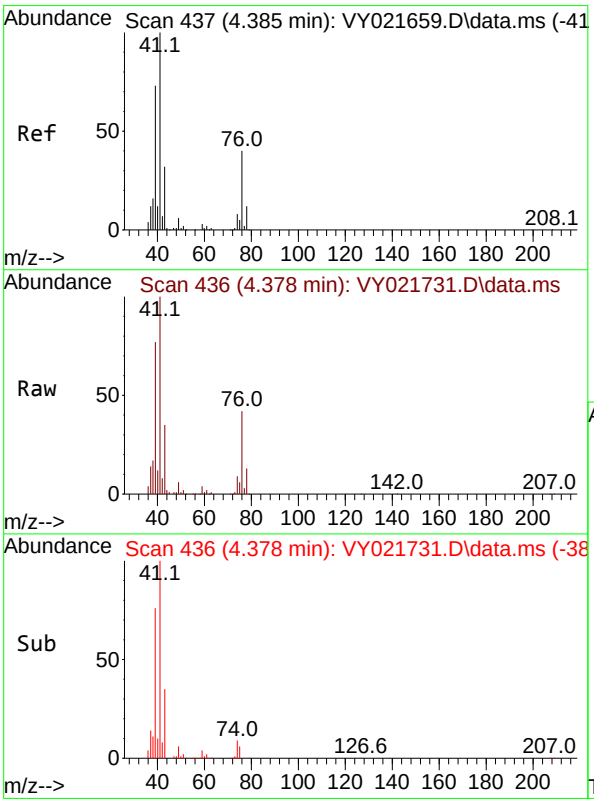
Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

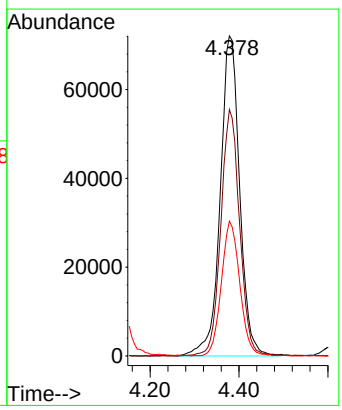
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

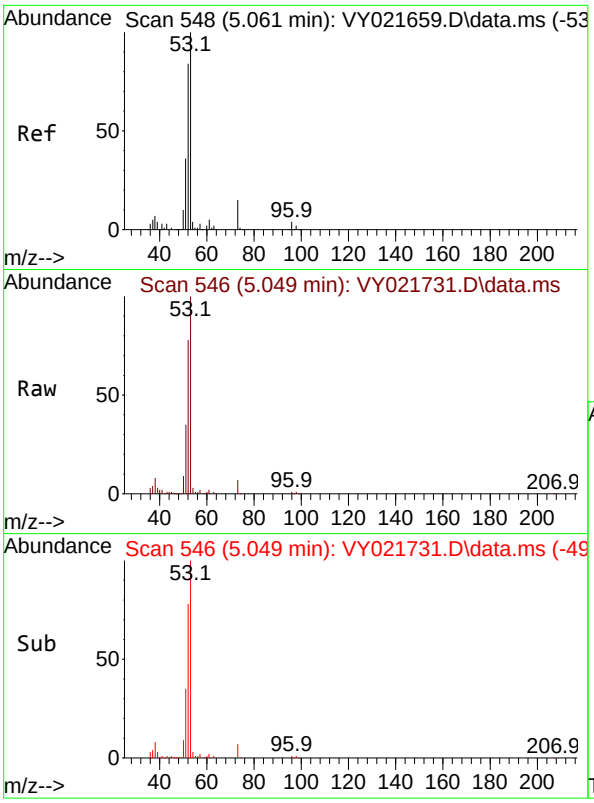


#14
Allyl chloride
Concen: 48.883 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 41 Resp: 218387

Ion	Ratio	Lower	Upper
41	100		
39	74.4	58.6	88.0
76	40.0	30.3	45.5





#15
Acrylonitrile
Concen: 238.441 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

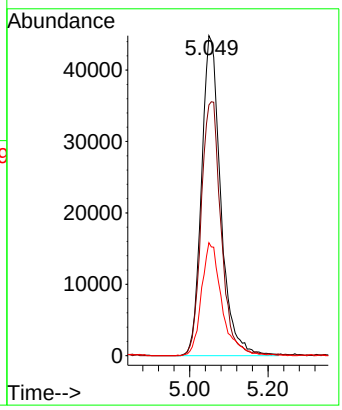
Tgt Ion: 53 Resp: 15270

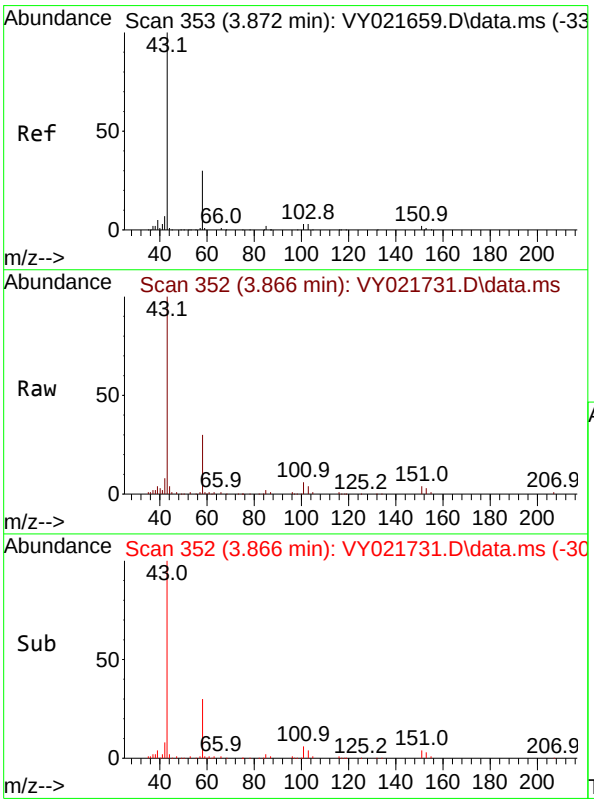
Ion	Ratio	Lower	Upper
53	100		
52	82.2	64.9	97.3
51	37.5	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

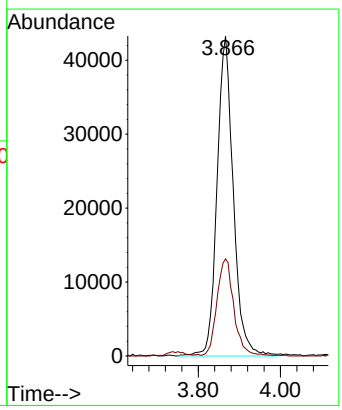


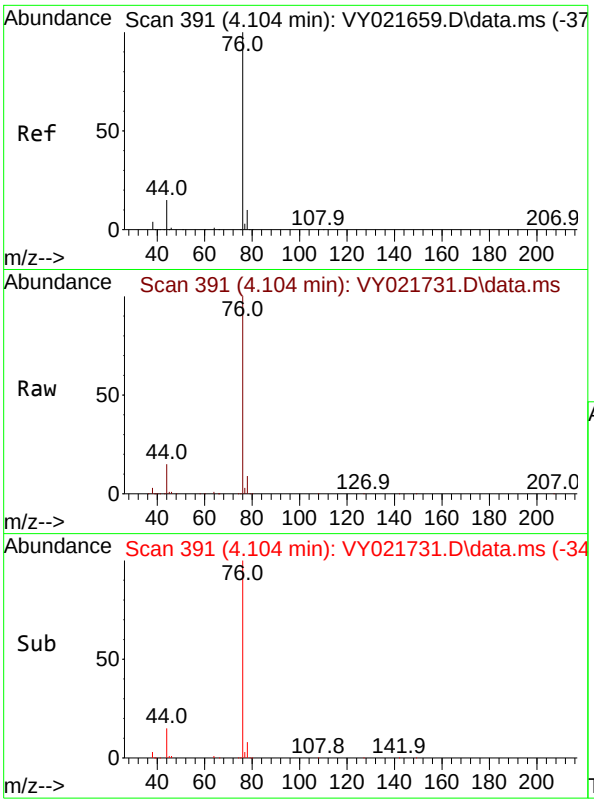


#16
Acetone
Concen: 199.954 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 43 Resp: 118444

Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.2	36.4





#17
Carbon Disulfide
Concen: 48.433 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

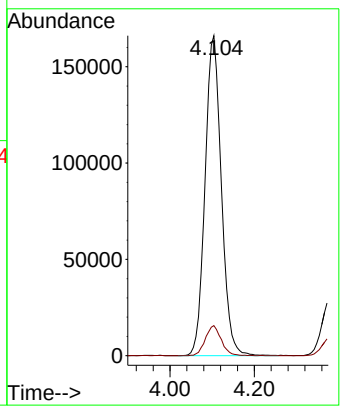
Tgt Ion: 76 Resp: 44698

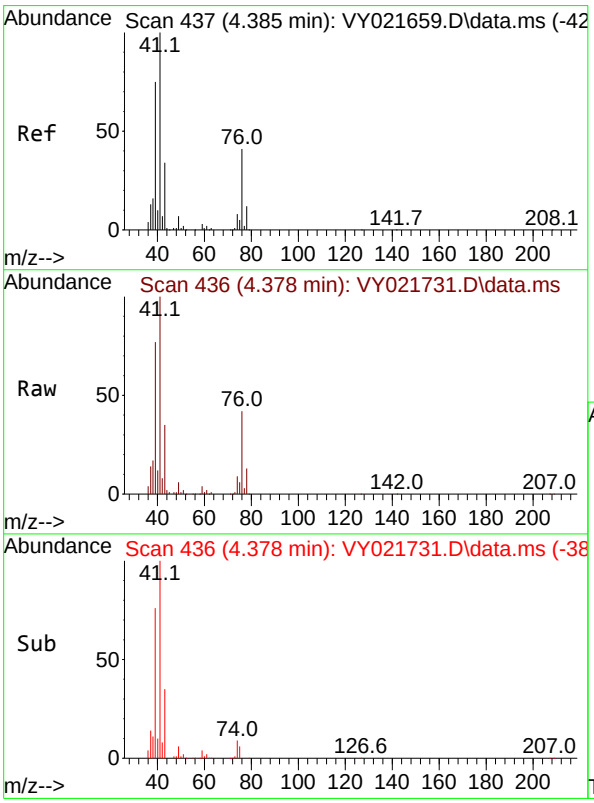
Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

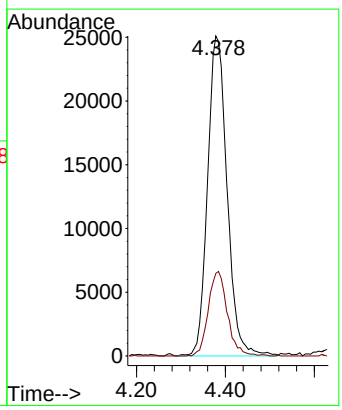


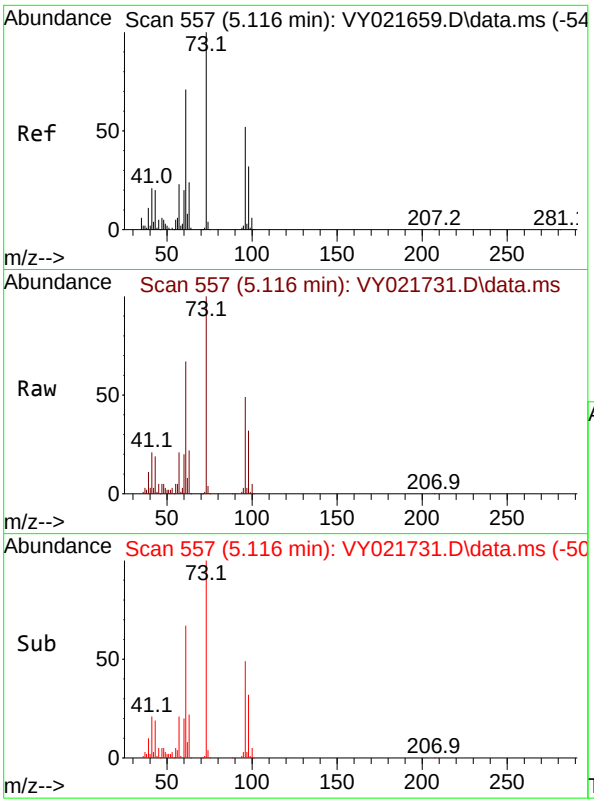


#18
Methyl Acetate
Concen: 52.162 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 43 Resp: 76579

Ion	Ratio	Lower	Upper
43	100		
74	25.8	19.1	28.7

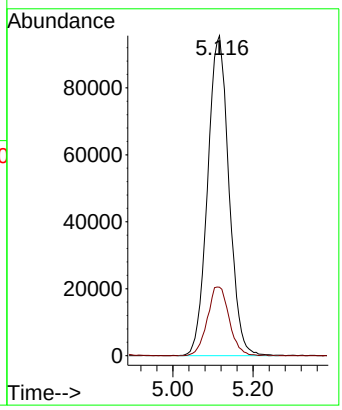




#19
Methyl tert-butyl Ether
Concen: 50.590 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 73 Resp: 35291

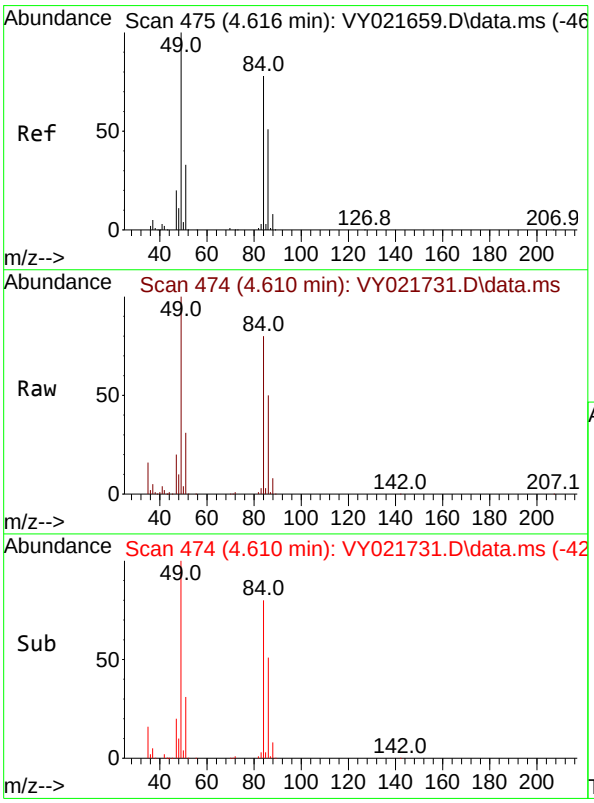
Ion	Ratio	Lower	Upper
73	100		
57	21.4	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

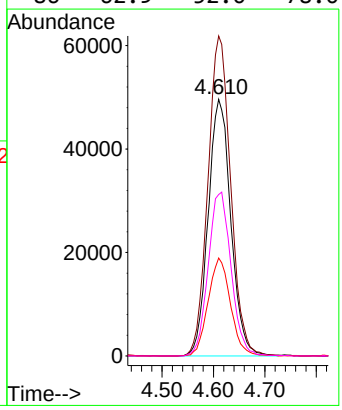
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

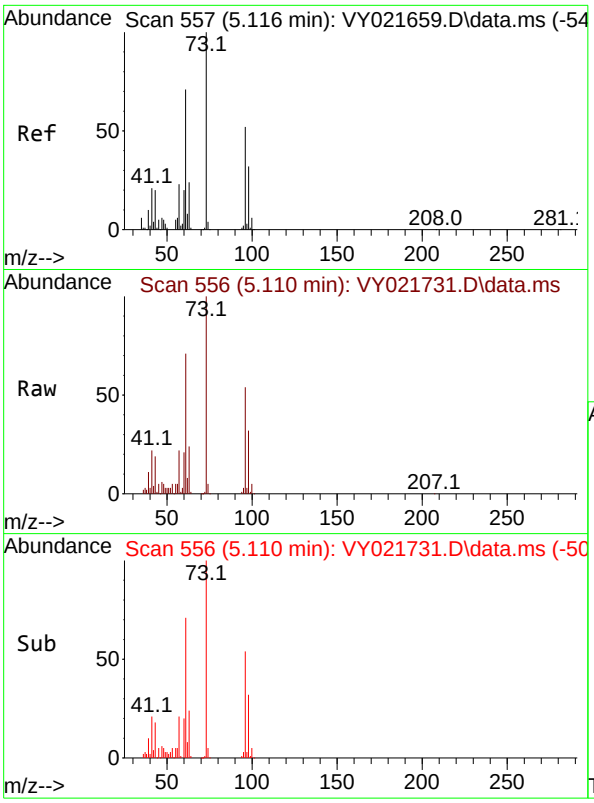


#20
Methylene Chloride
Concen: 52.656 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 84 Resp: 152033

Ion	Ratio	Lower	Upper
84	100		
49	124.7	102.8	154.2
51	38.2	33.5	50.3
86	62.9	52.0	78.0

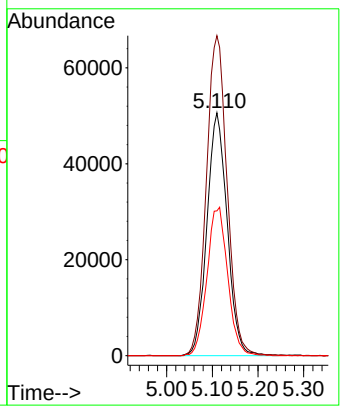




#21
trans-1,2-Dichloroethene
Concen: 50.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 96 Resp: 15571

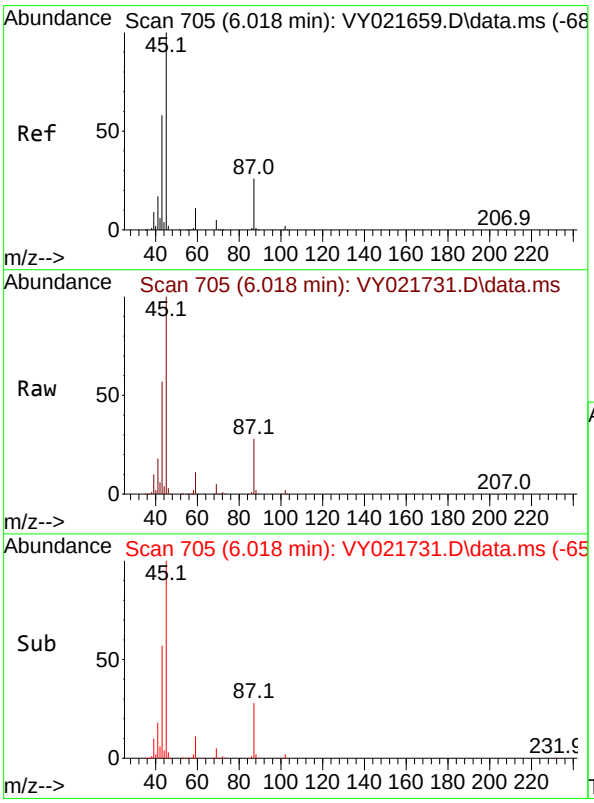
Ion	Ratio	Lower	Upper
96	100		
61	131.7	109.4	164.0
98	59.6	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

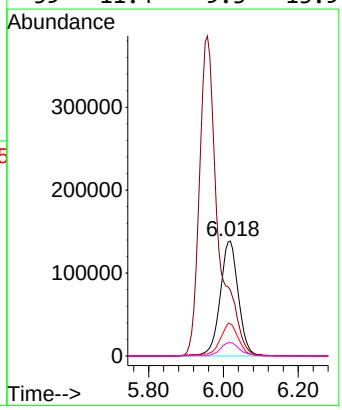
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

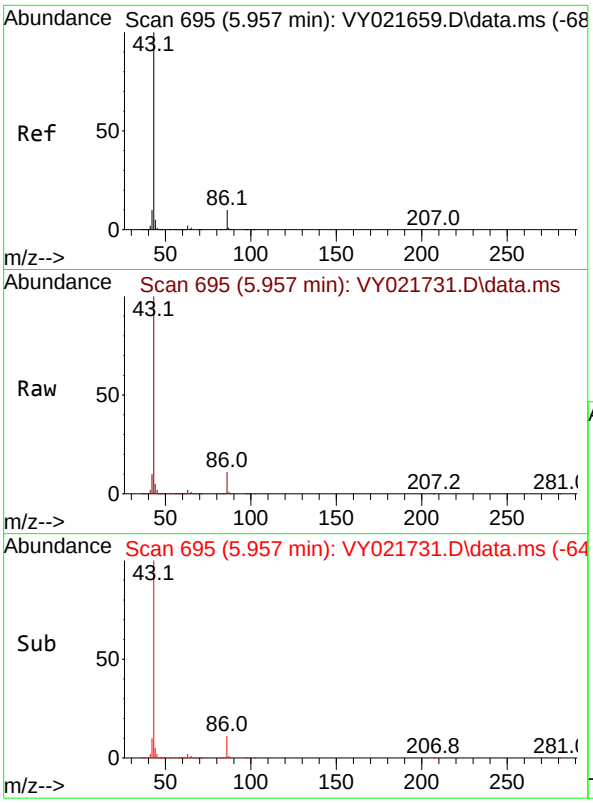


#22
Diisopropyl ether
Concen: 49.759 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 45 Resp: 466330

Ion	Ratio	Lower	Upper
45	100		
43	57.3	46.6	69.8
87	28.1	20.7	31.1
59	11.4	9.3	13.9

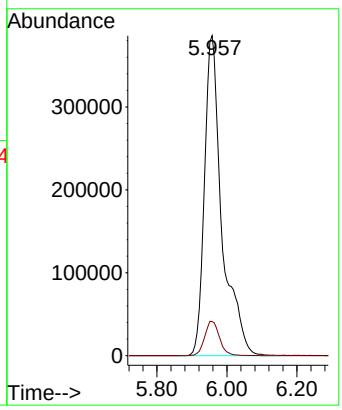




#23
Vinyl Acetate
Concen: 244.119 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 43 Resp: 133838

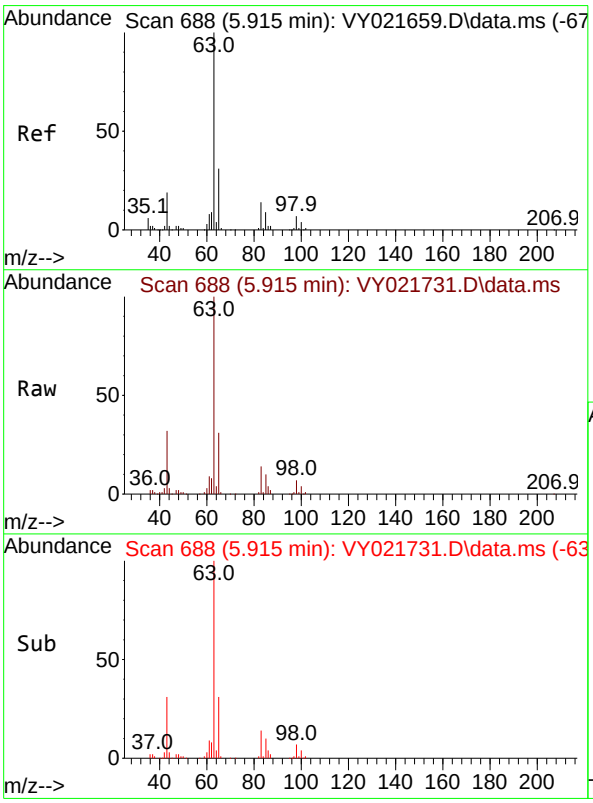
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

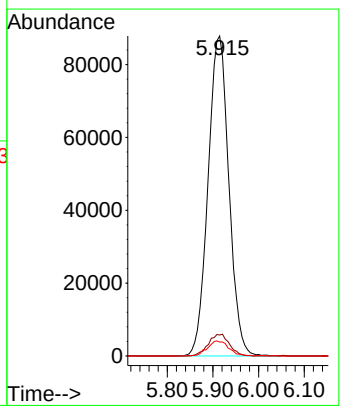
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

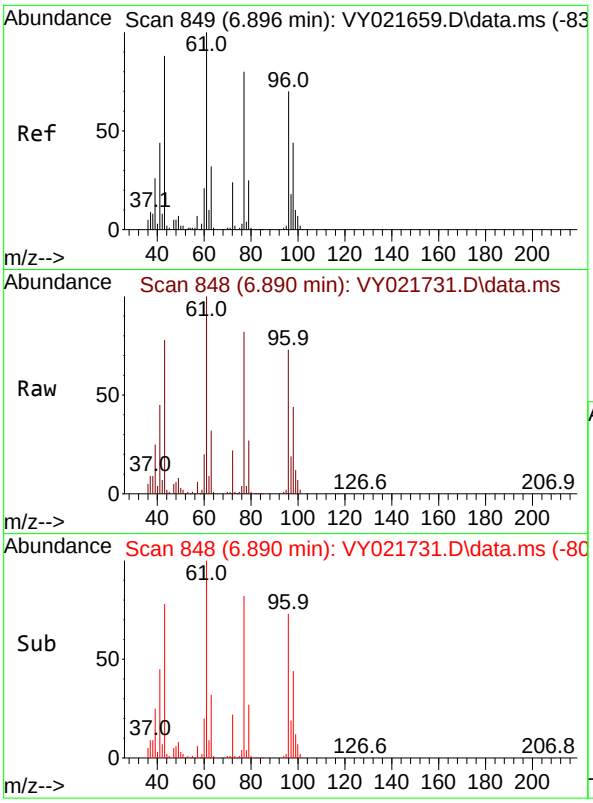


#24
1,1-Dichloroethane
Concen: 49.622 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 63 Resp: 278076

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.5
100	4.4	2.2	6.6





#25
2-Butanone
Concen: 224.955 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

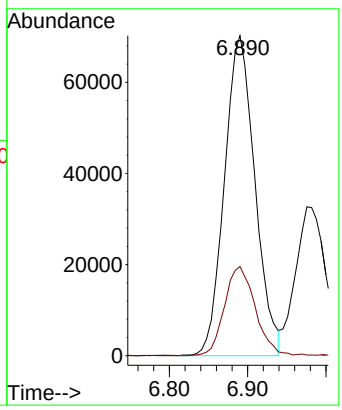
Tgt Ion: 43 Resp: 19032

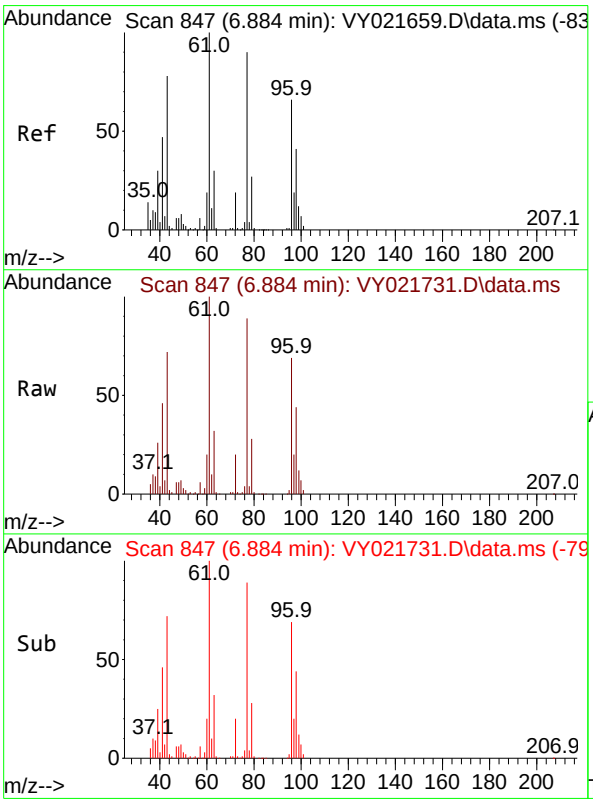
Ion	Ratio	Lower	Upper
43	100		
72	27.8	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

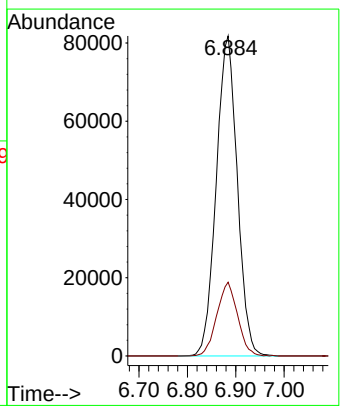


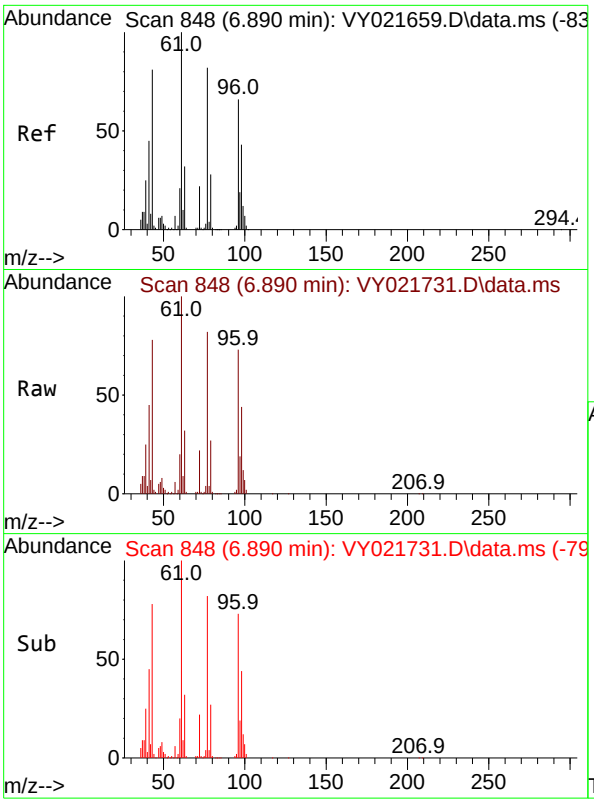


#26
2,2-Dichloropropane
Concen: 49.566 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 77 Resp: 247075

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.1	33.1





#27
cis-1,2-Dichloroethene
Concen: 51.514 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

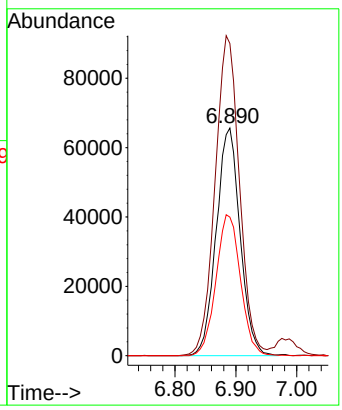
Tgt Ion: 96 Resp: 17872

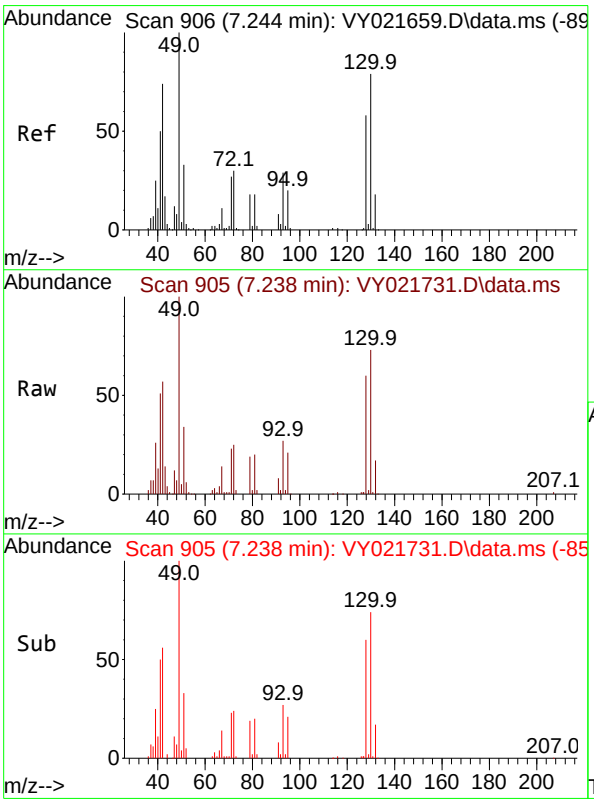
Ion	Ratio	Lower	Upper
96	100		
61	143.5	0.0	296.4
98	63.5	0.0	128.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

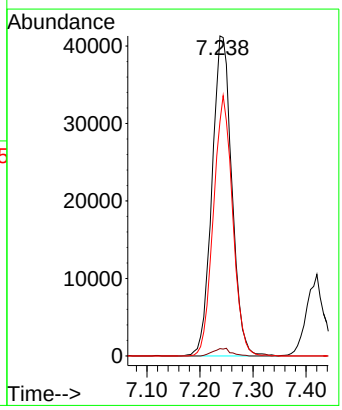


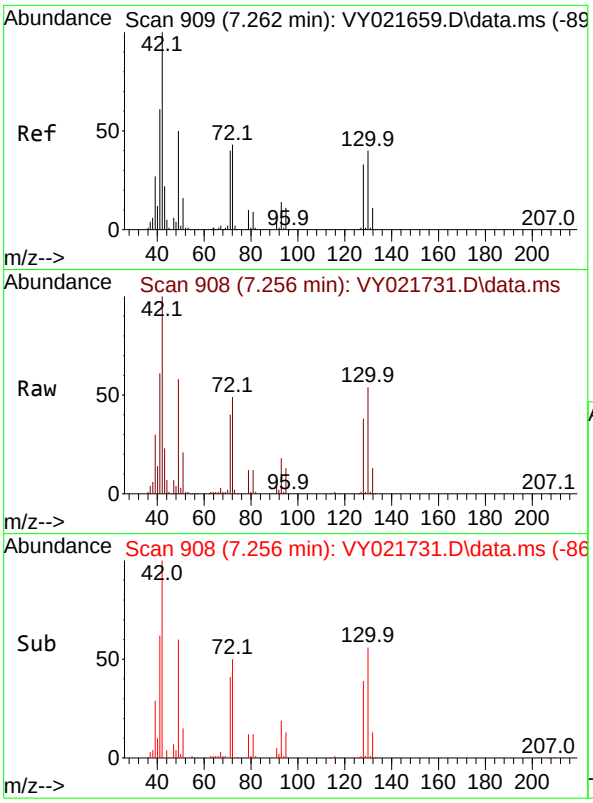


#28
Bromochloromethane
Concen: 45.407 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 49 Resp: 107313

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	78.7	60.1	90.1





#29
Tetrahydrofuran
Concen: 238.865 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

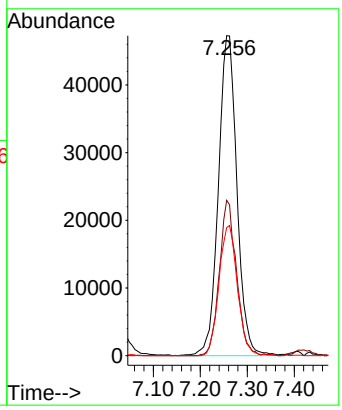
Tgt Ion: 42 Resp: 13006

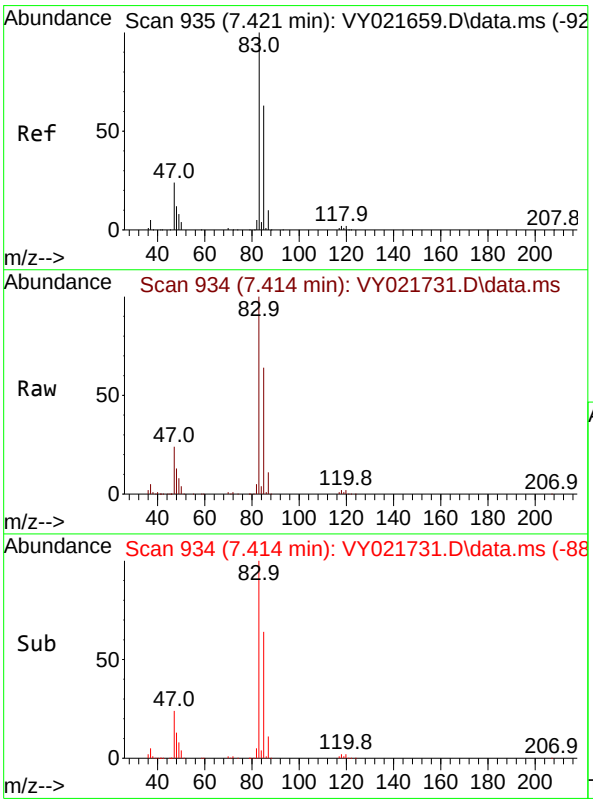
Ion	Ratio	Lower	Upper
42	100		
72	44.7	34.6	52.0
71	40.5	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

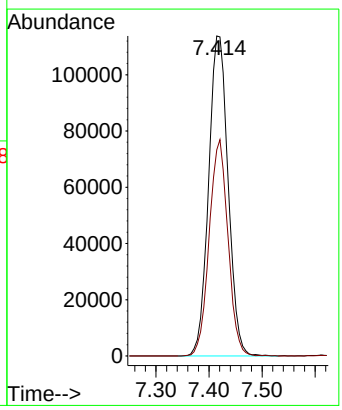


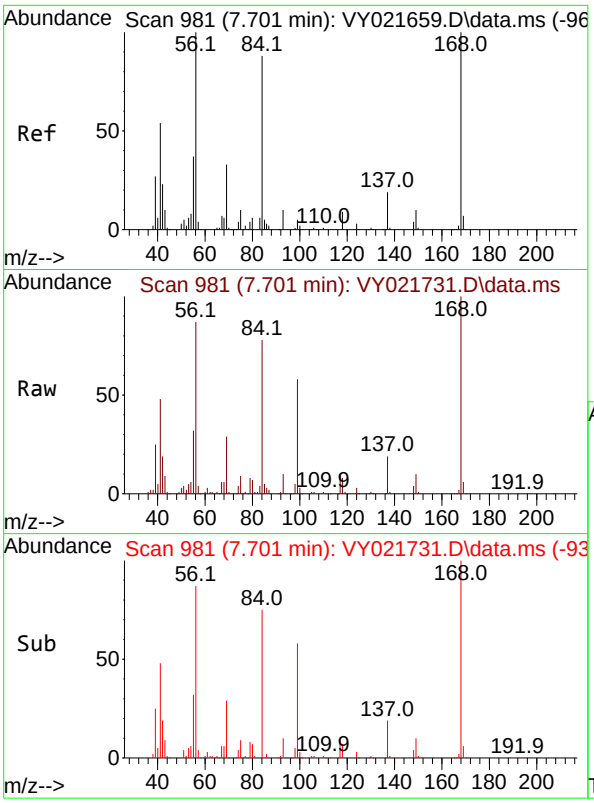


#30
Chloroform
Concen: 49.822 ug/l
RT: 7.414 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 83 Resp: 290391

Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.6	75.8





#31
Cyclohexane
Concen: 47.893 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

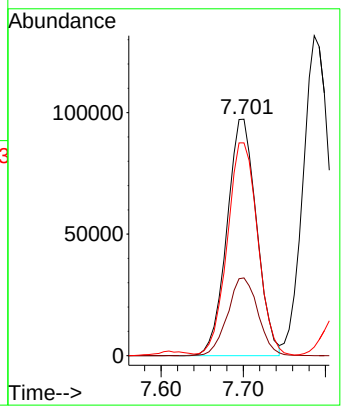
Tgt Ion: 56 Resp: 24465

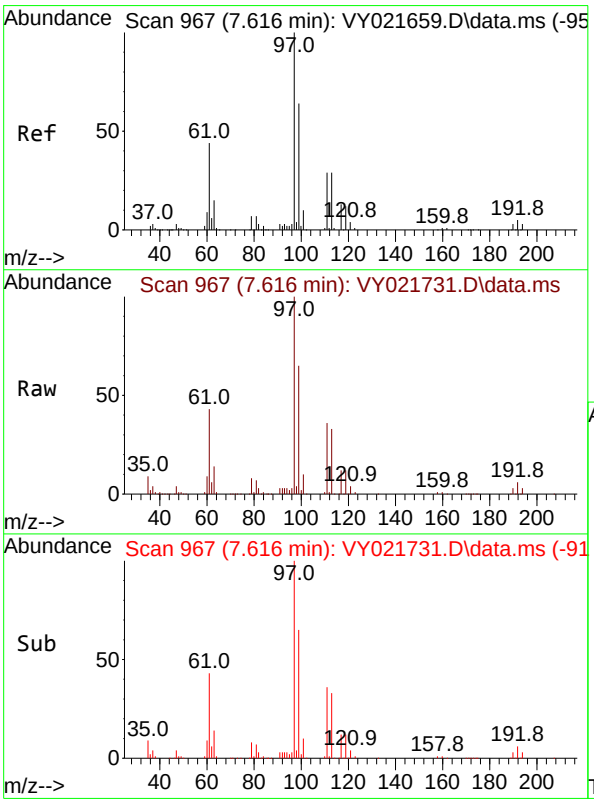
Ion	Ratio	Lower	Upper
56	100		
69	32.9	26.6	40.0
84	88.3	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

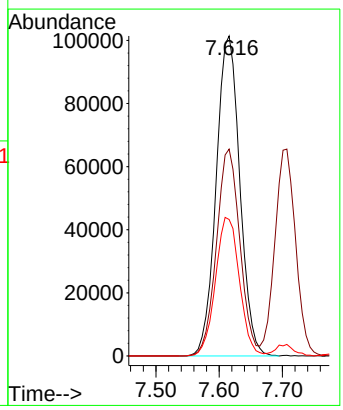


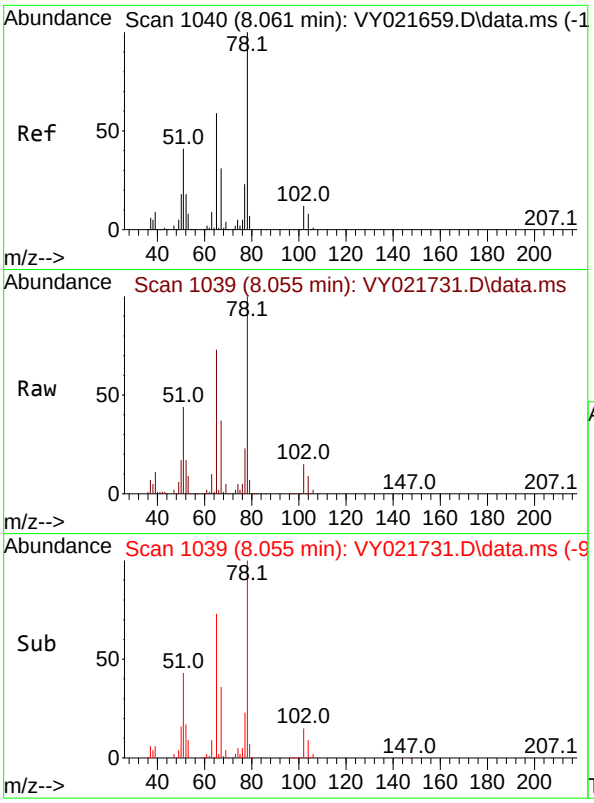


#32
1,1,1-Trichloroethane
Concen: 49.940 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 97 Resp: 263084

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.7	76.1
61	43.9	35.2	52.8

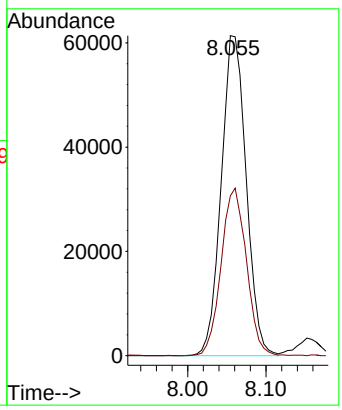




#33
1,2-Dichloroethane-d4
Concen: 47.014 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 65 Resp: 13607

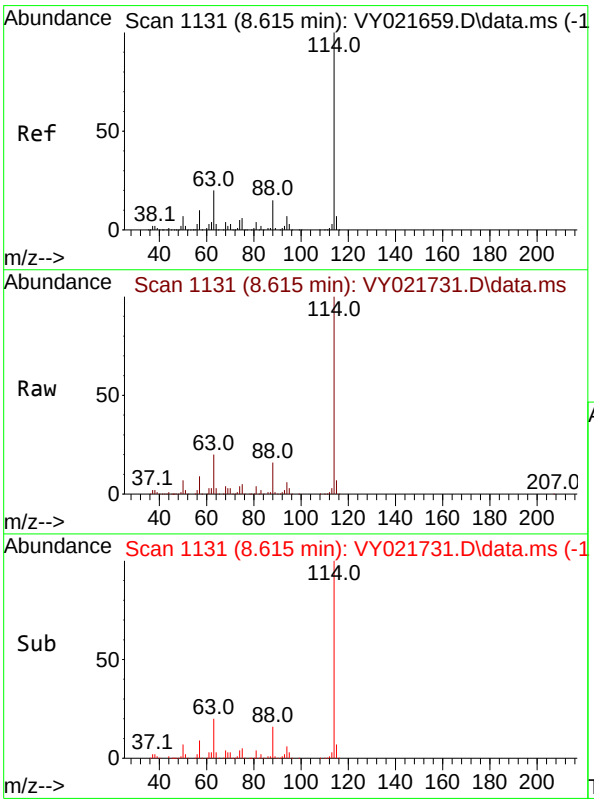
Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

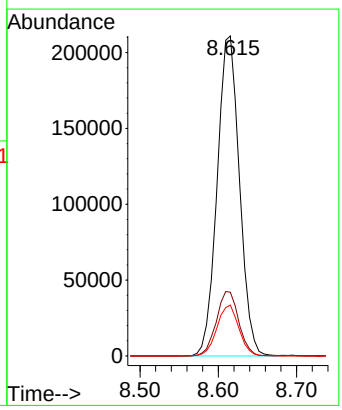
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

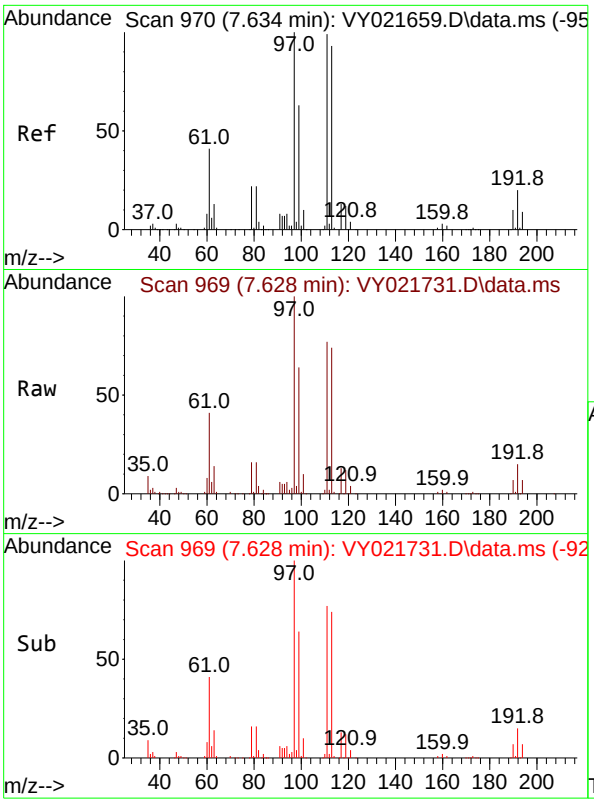


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:114 Resp: 417982

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.2
88	15.9	0.0	29.8

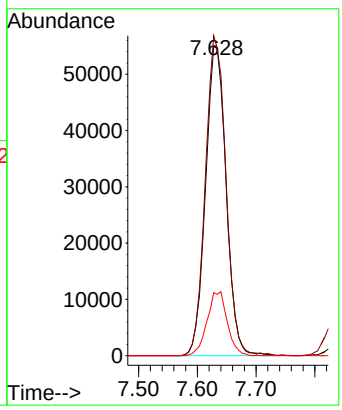




#35
Dibromofluoromethane
Concen: 49.401 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:113 Resp: 13394

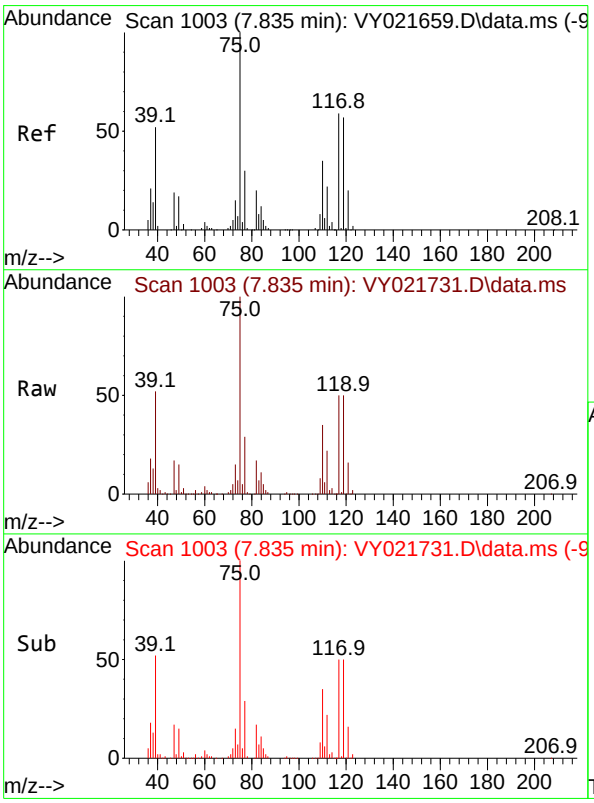
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	20.3	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

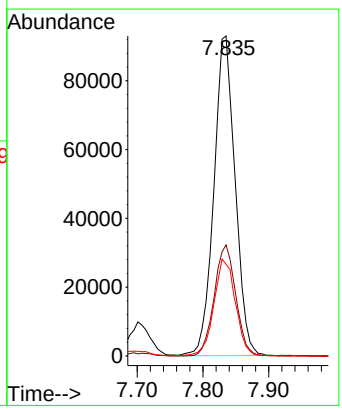
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

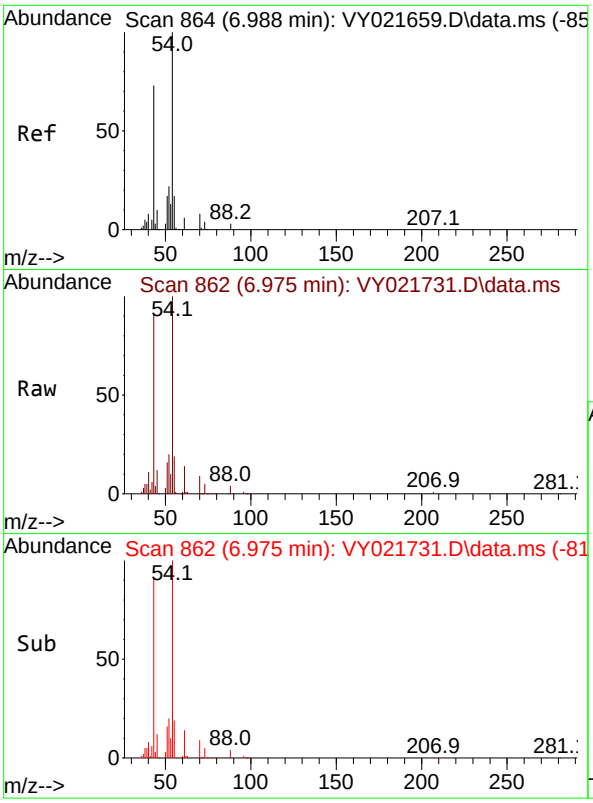


#36
1,1-Dichloropropene
Concen: 50.689 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 75 Resp: 209338

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.0	50.9
77	30.8	24.8	37.2

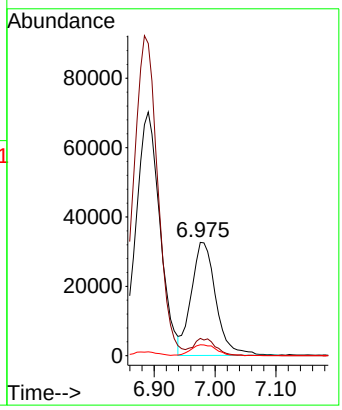




#37
Ethyl Acetate
Concen: 46.847 ug/l
RT: 6.975 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 43 Resp: 9130

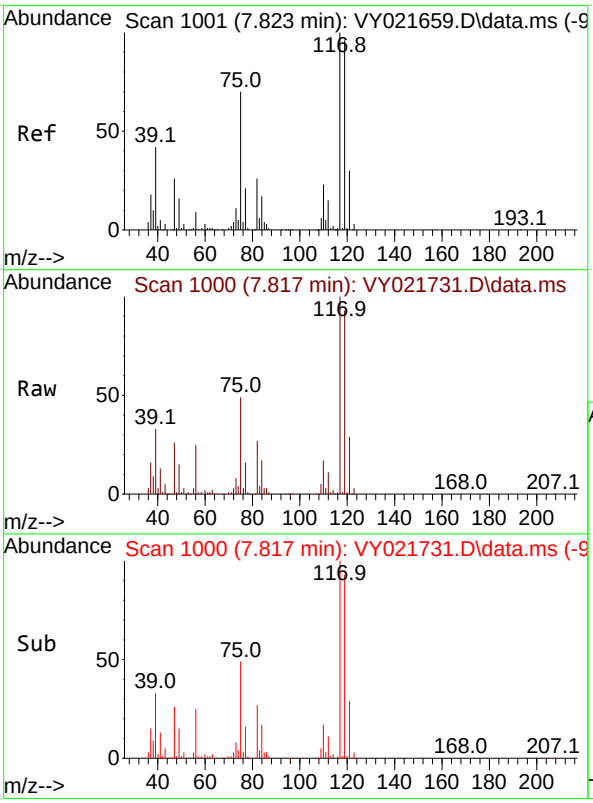
Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.6
70	10.1	8.1	12.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

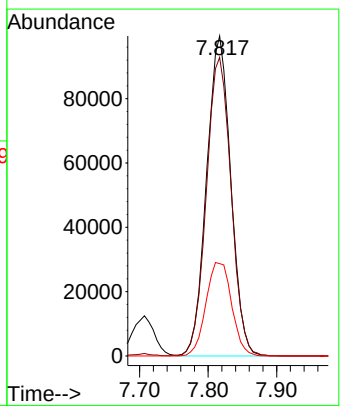
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

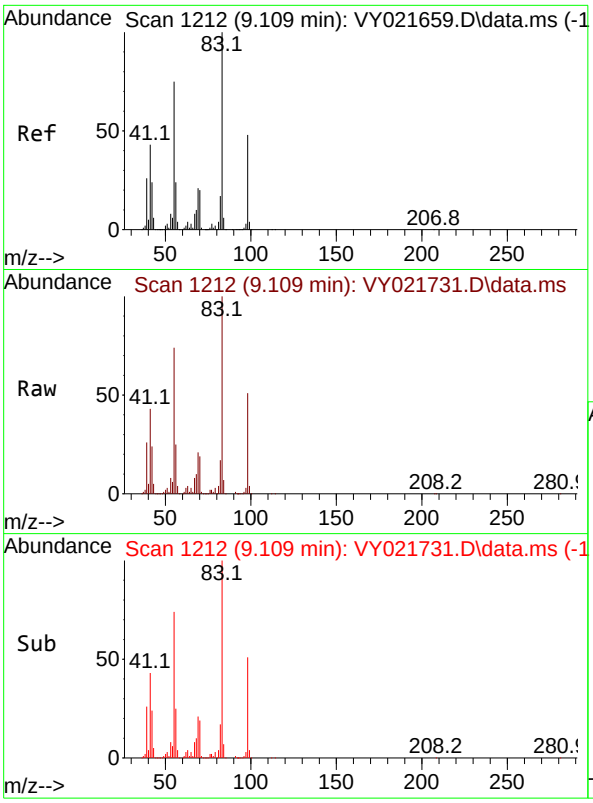


#38
Carbon Tetrachloride
Concen: 51.515 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:117 Resp: 243670

Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.2	114.4
121	28.9	24.2	36.4





#39
Methylcyclohexane
Concen: 53.177 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

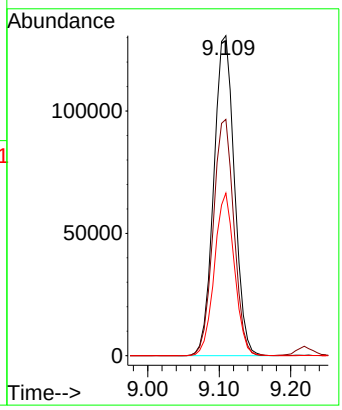
Tgt Ion: 83 Resp: 26235

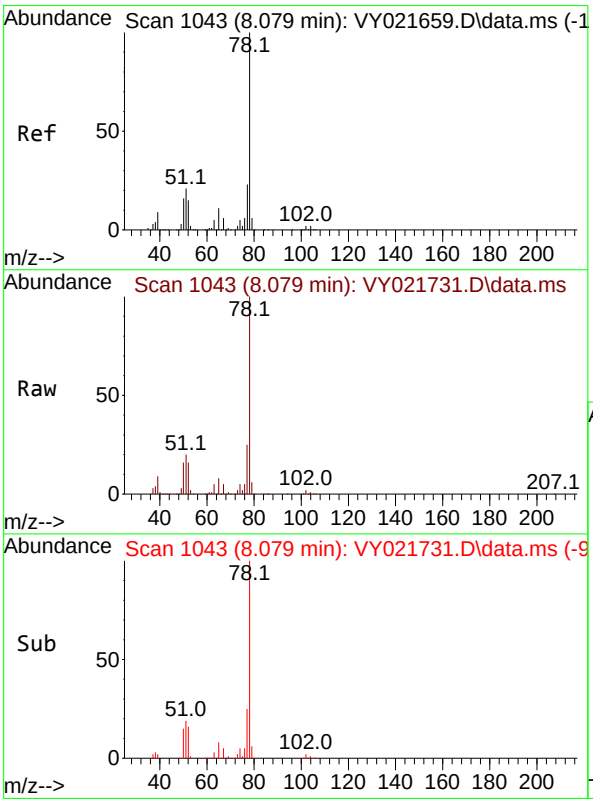
Ion	Ratio	Lower	Upper
83	100		
55	73.8	59.7	89.5
98	50.8	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

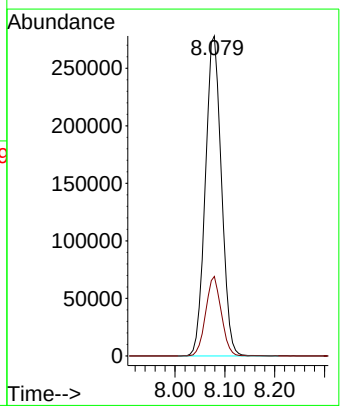


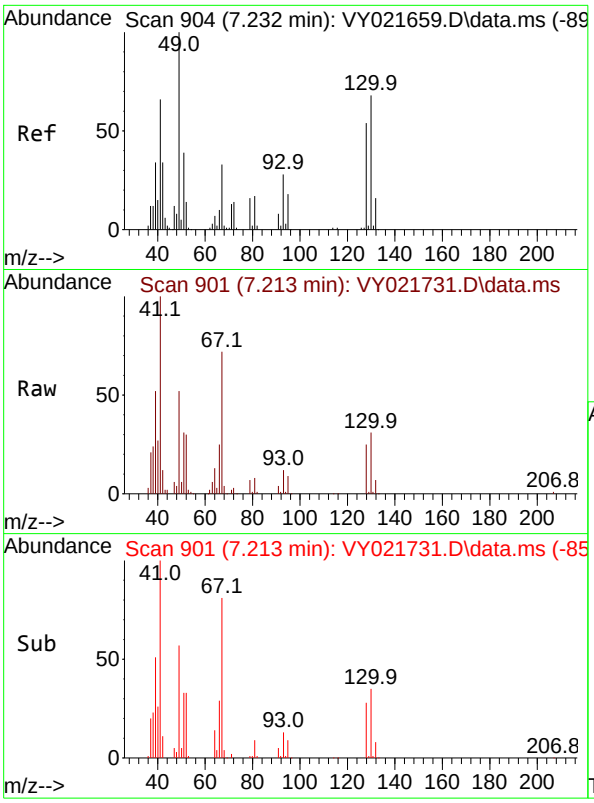


#40
Benzene
Concen: 50.353 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 78 Resp: 622767

Ion	Ratio	Lower	Upper
78	100		
77	24.8	18.8	28.2

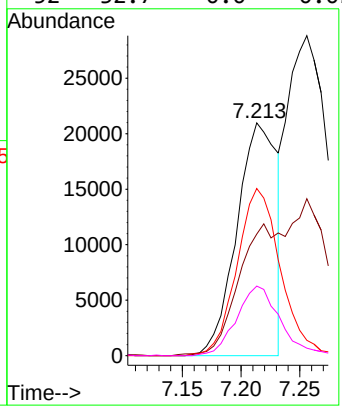




#41
Methacrylonitrile
Concen: 48.231 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

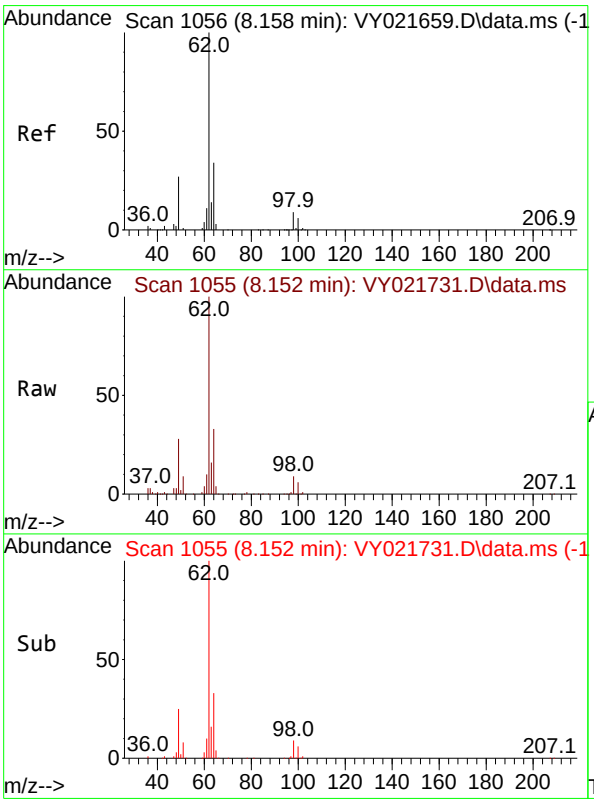
Tgt Ion: 41 Resp: 4992

Ion	Ratio	Lower	Upper
41	100		
39	63.4	0.0	0.0#
67	78.5	0.0	0.0#
52	32.7	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

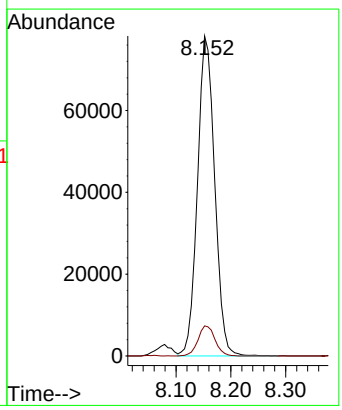
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

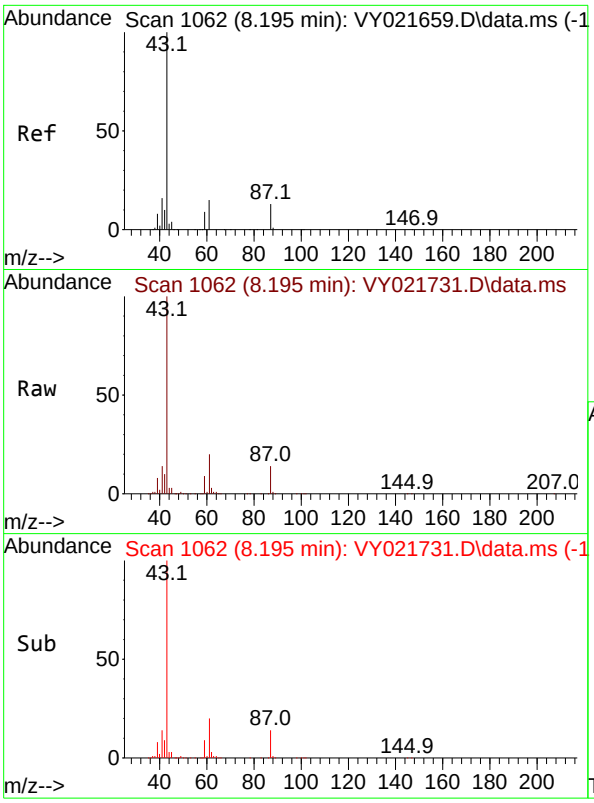


#42
1,2-Dichloroethane
Concen: 48.971 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 62 Resp: 170747

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4





#43
Isopropyl Acetate
Concen: 48.688 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

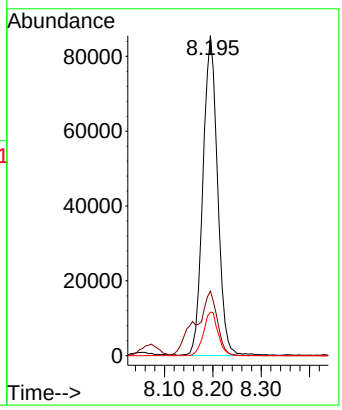
Tgt Ion: 43 Resp: 17983

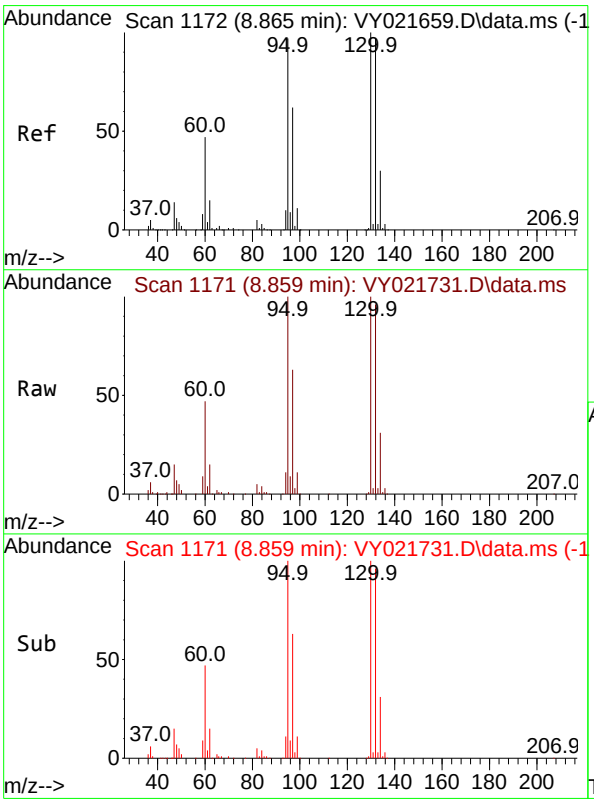
Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.9	23.9
87	13.6	10.4	15.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

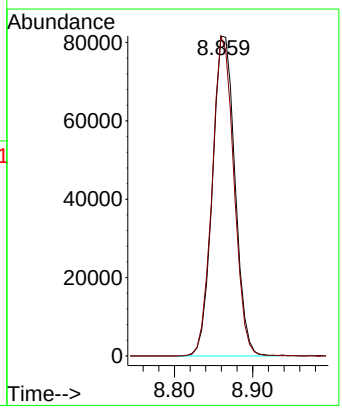


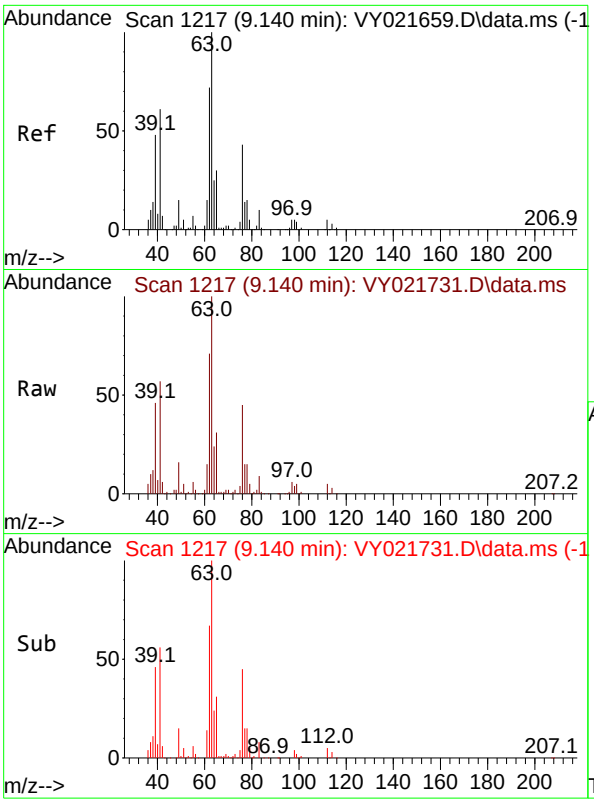


#44
Trichloroethene
Concen: 51.597 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:130 Resp: 162593

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	194.8

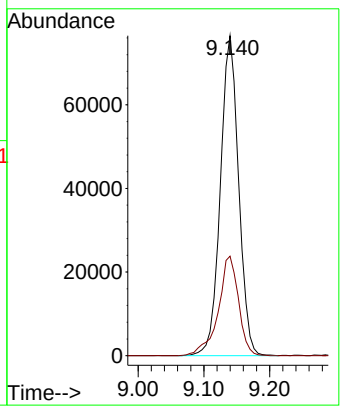




#45
1,2-Dichloropropane
Concen: 50.563 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 63 Resp: 14802

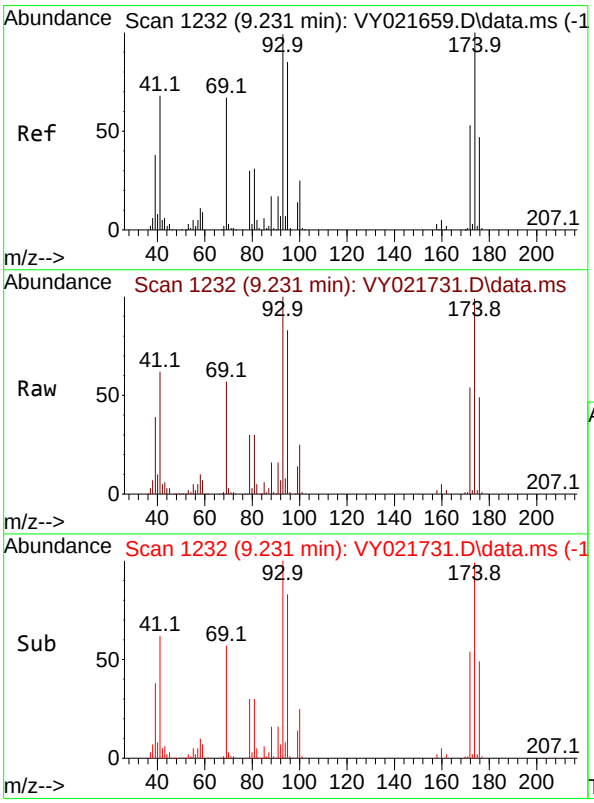
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

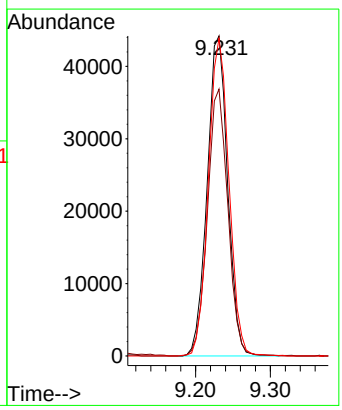
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

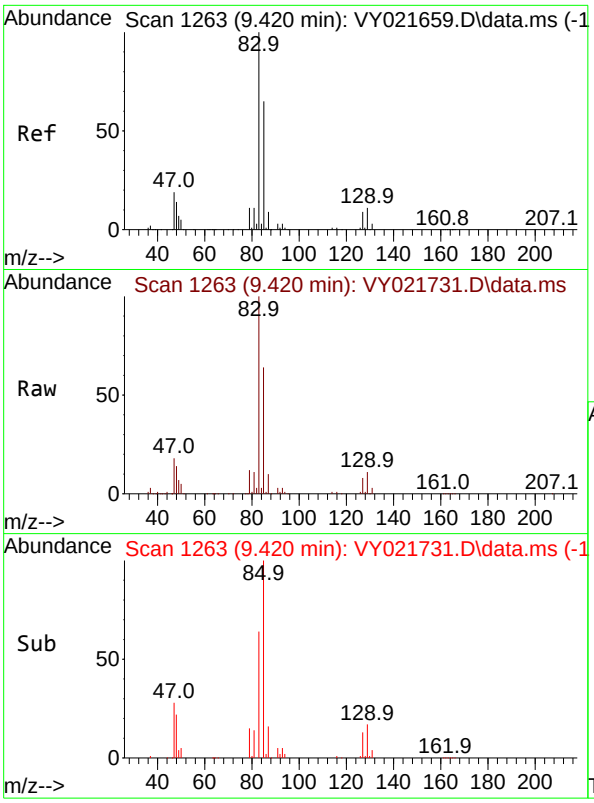


#46
Dibromomethane
Concen: 49.889 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 93 Resp: 84173

Ion	Ratio	Lower	Upper
93	100		
95	83.2	68.1	102.1
174	99.7	80.9	121.3

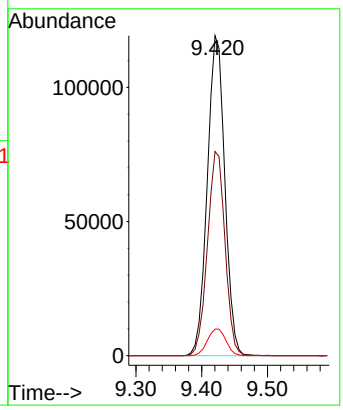




#47
Bromodichloromethane
Concen: 50.556 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 83 Resp: 22102

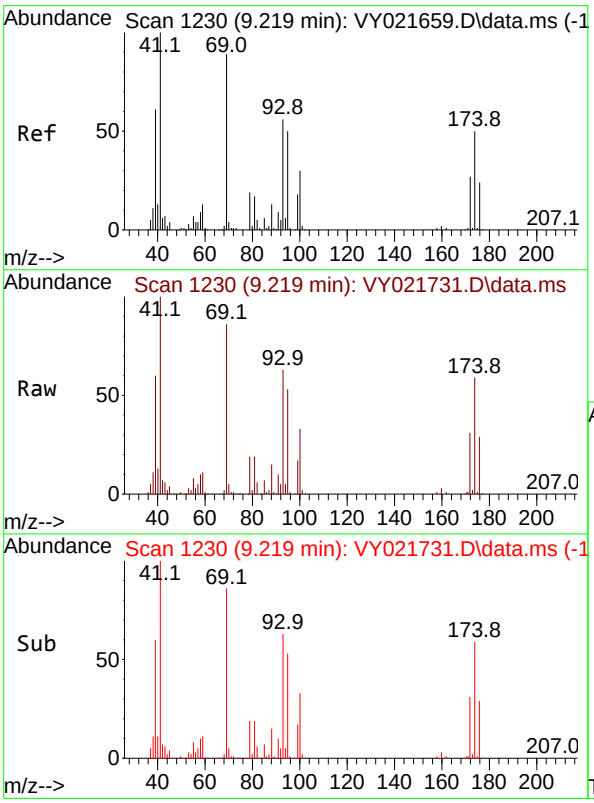
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.8	77.6
127	8.3	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

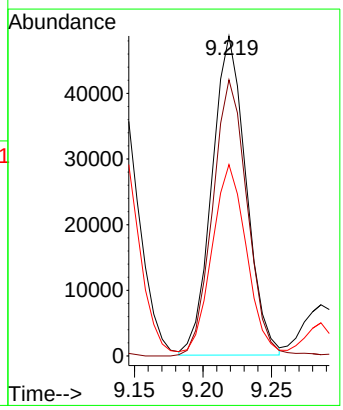
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

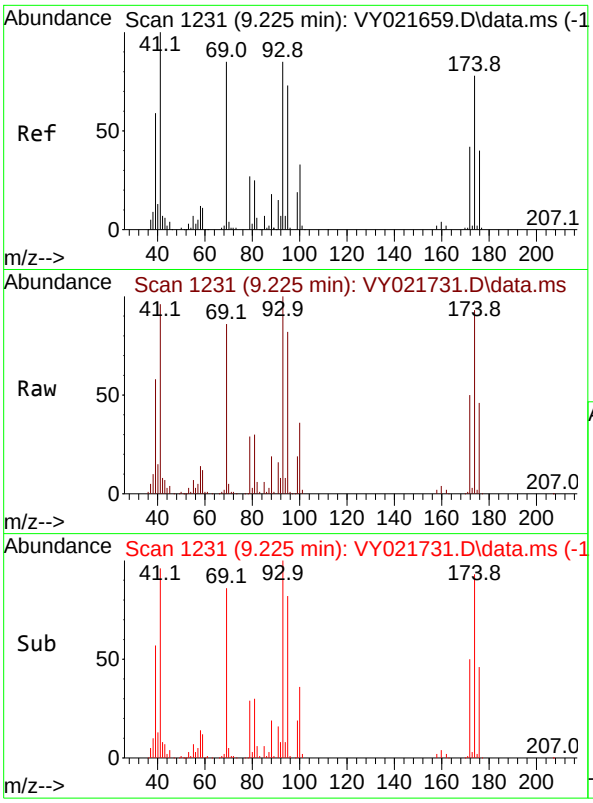


#48
Methyl methacrylate
Concen: 49.779 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 41 Resp: 84385

Ion	Ratio	Lower	Upper
41	100		
69	88.6	69.8	104.8
39	58.2	47.2	70.8

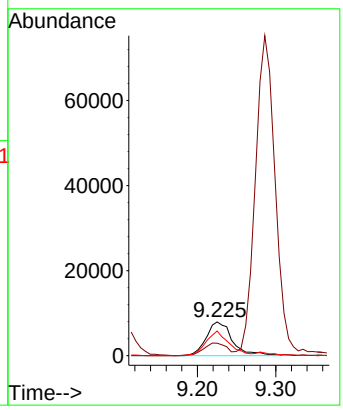




#49
1,4-Dioxane
Concen: 1019.727 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 88 Resp: 1843

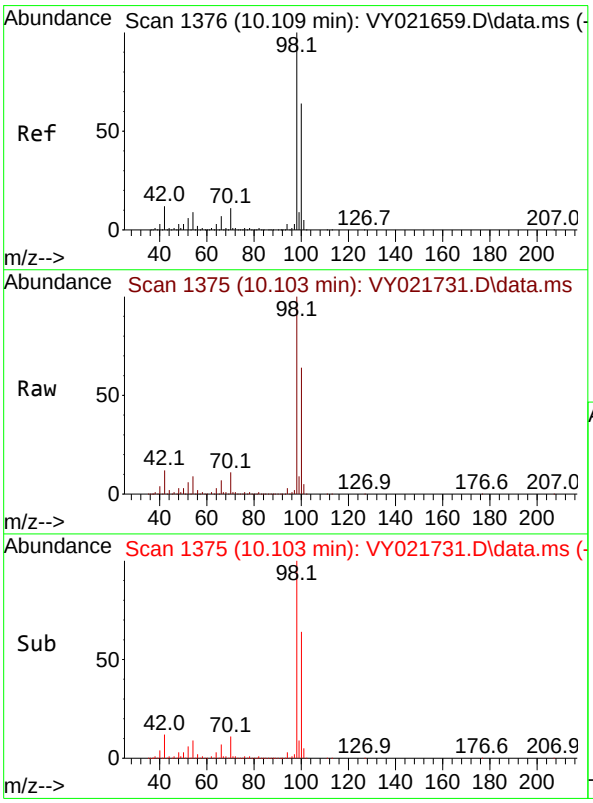
Ion	Ratio	Lower	Upper
88	100		
43	33.1	28.8	43.2
58	64.4	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

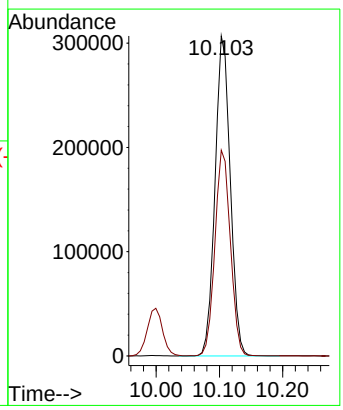
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

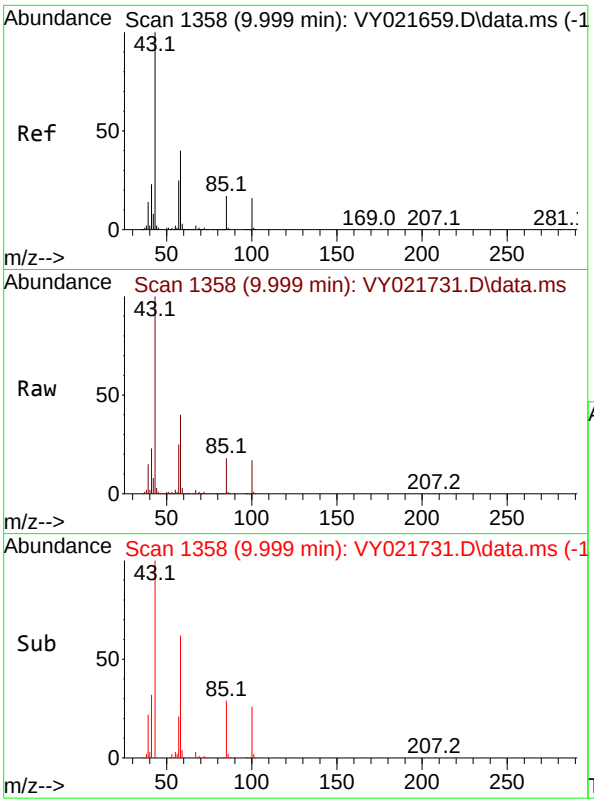


#50
Toluene-d8
Concen: 49.740 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 98 Resp: 513066

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.1	78.1

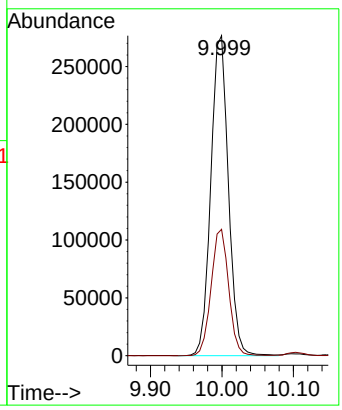




#51
4-Methyl-2-Pentanone
Concen: 244.928 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 43 Resp: 47078

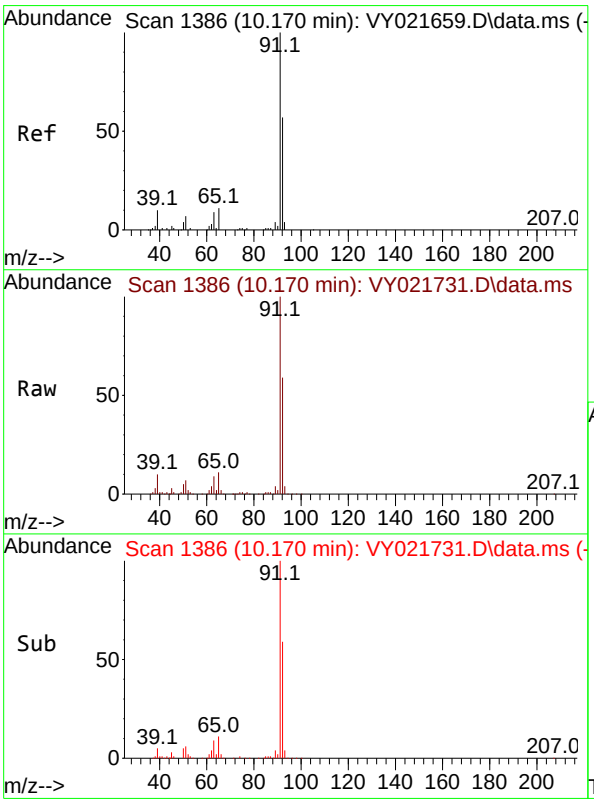
Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

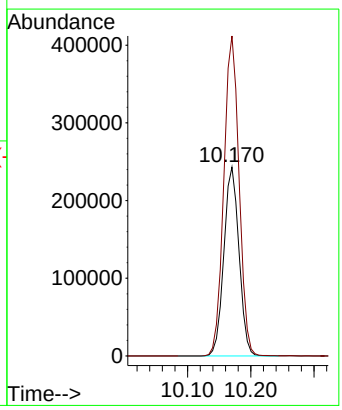
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

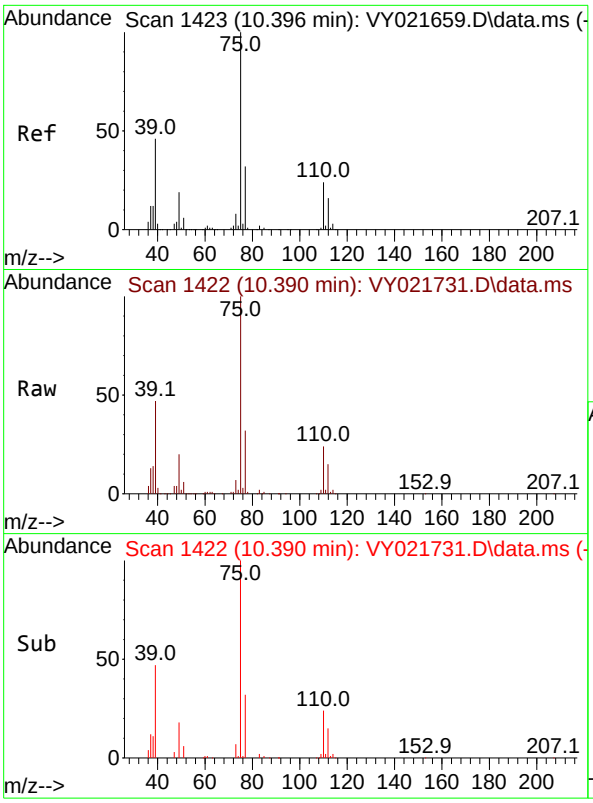


#52
Toluene
Concen: 52.098 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 92 Resp: 402014

Ion	Ratio	Lower	Upper
92	100		
91	171.2	138.6	207.8

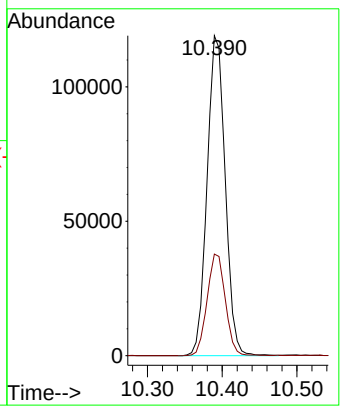




#53
t-1,3-Dichloropropene
Concen: 51.562 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 75 Resp: 20022

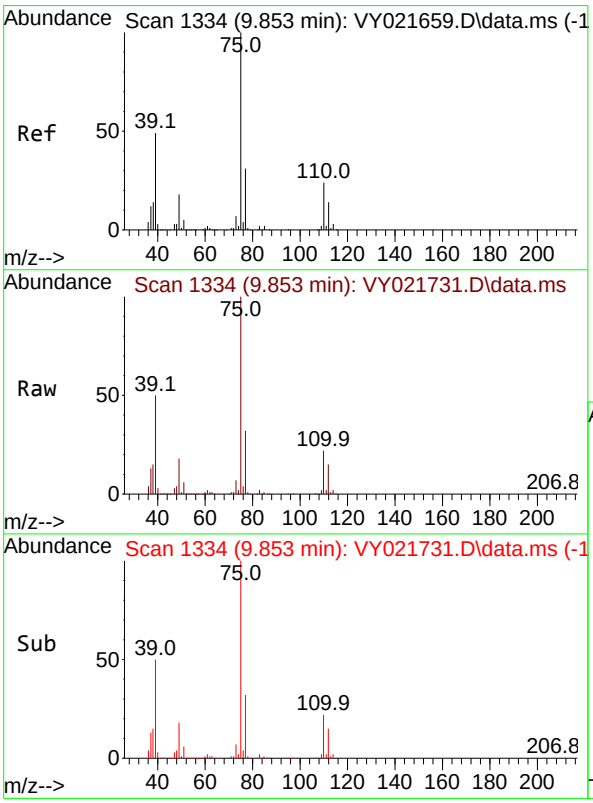
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

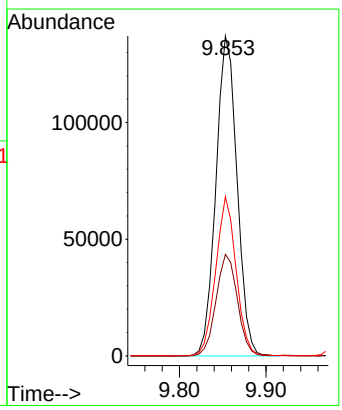
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

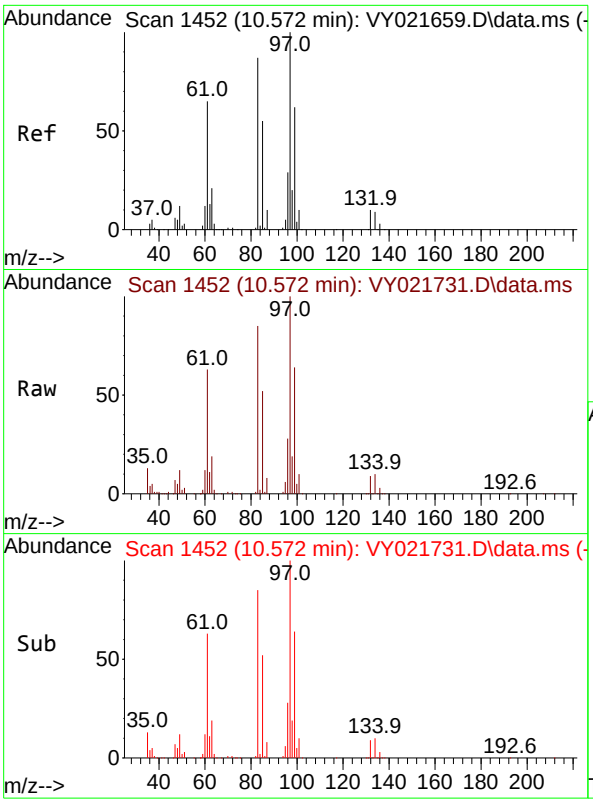


#54
cis-1,3-Dichloropropene
Concen: 50.675 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 75 Resp: 232150

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.9	37.3
39	49.7	39.2	58.8

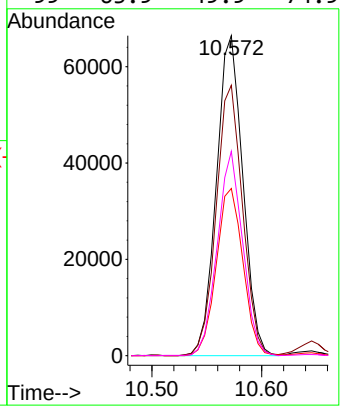




#55
1,1,2-Trichloroethane
Concen: 51.351 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 97 Resp: 11149

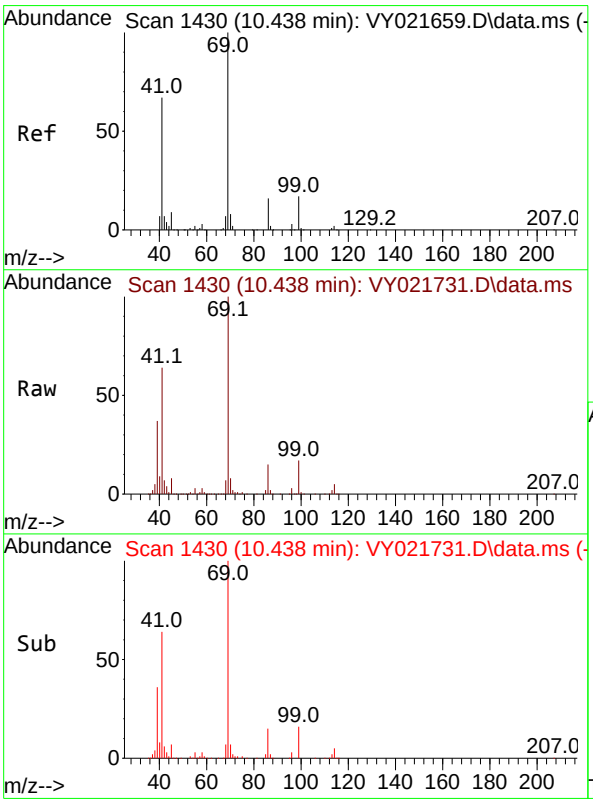
Ion	Ratio	Lower	Upper
97	100		
83	84.5	69.5	104.3
85	52.2	43.9	65.9
99	63.9	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

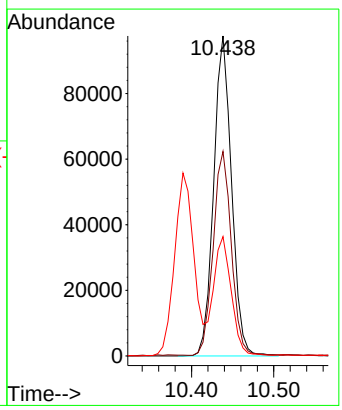
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

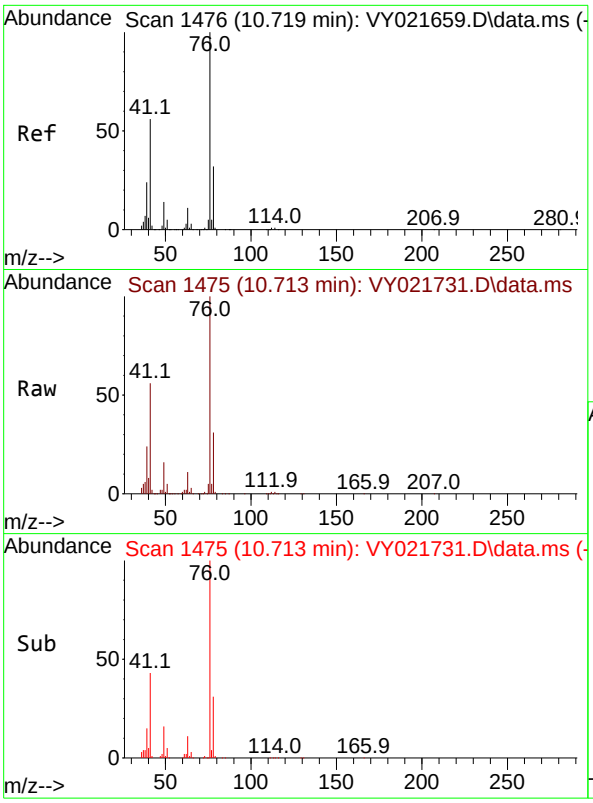


#56
Ethyl methacrylate
Concen: 53.145 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 69 Resp: 147342

Ion	Ratio	Lower	Upper
69	100		
41	64.8	53.8	80.6
39	37.5	29.6	44.4

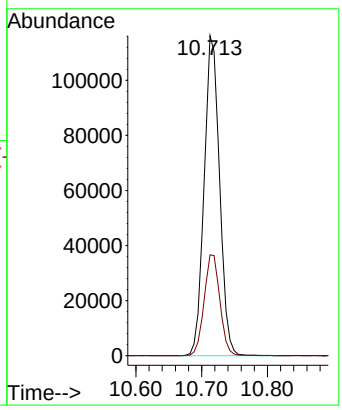




#57
1,3-Dichloropropane
Concen: 50.545 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 76 Resp: 18953

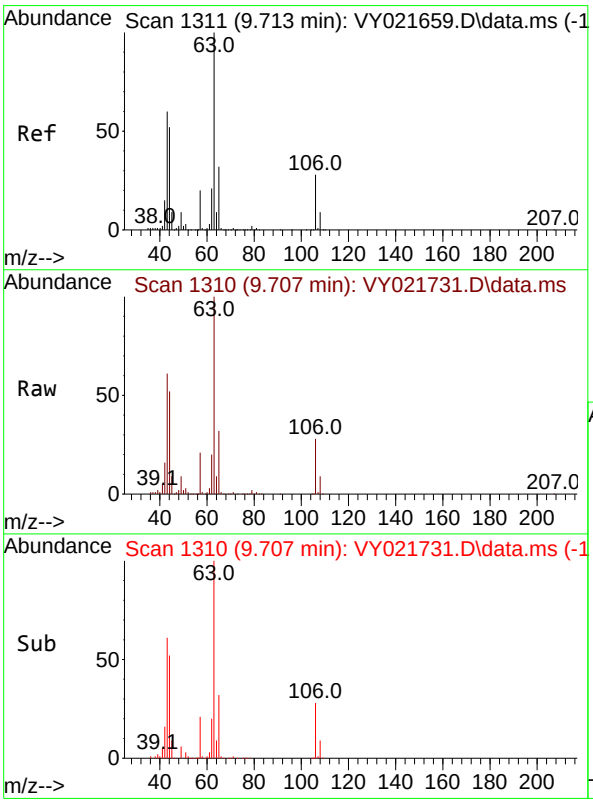
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

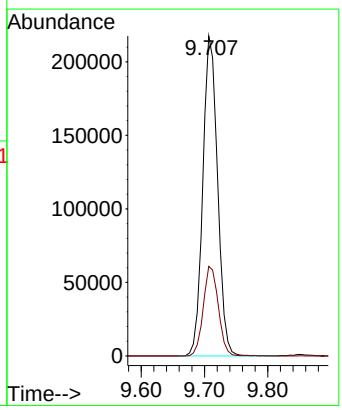
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

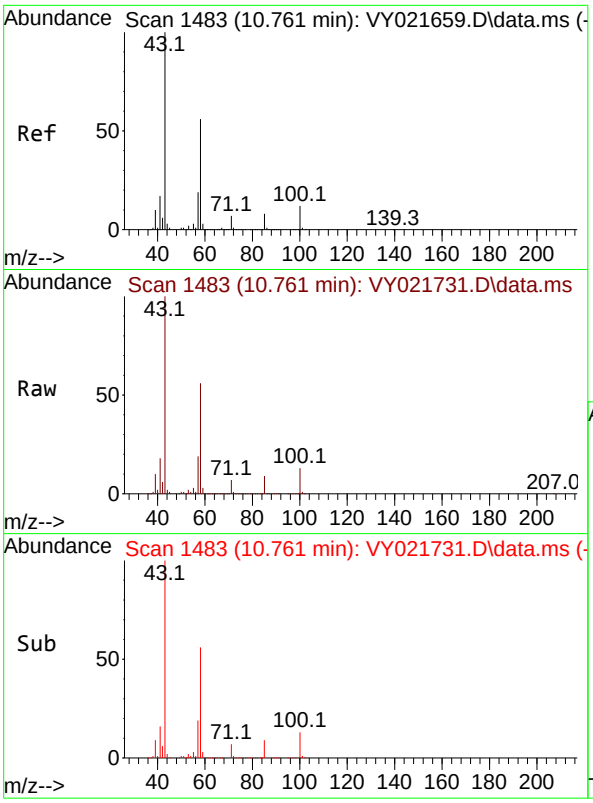


#58
2-Chloroethyl Vinyl ether
Concen: 261.293 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 63 Resp: 353396

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.4	33.6





#59
2-Hexanone
Concen: 242.897 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

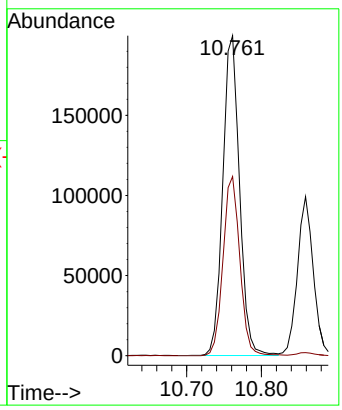
Tgt Ion: 43 Resp: 31093

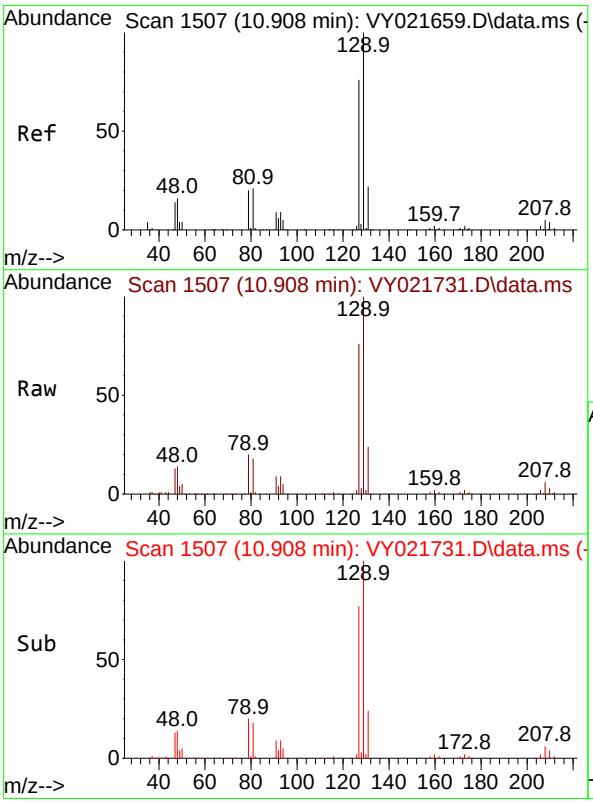
Ion	Ratio	Lower	Upper
43	100		
58	56.2	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

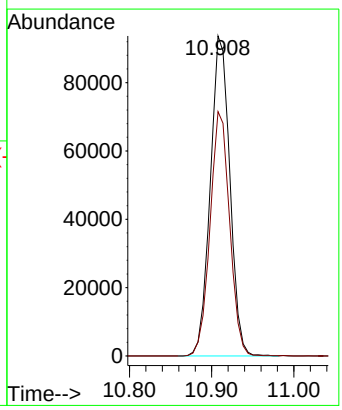


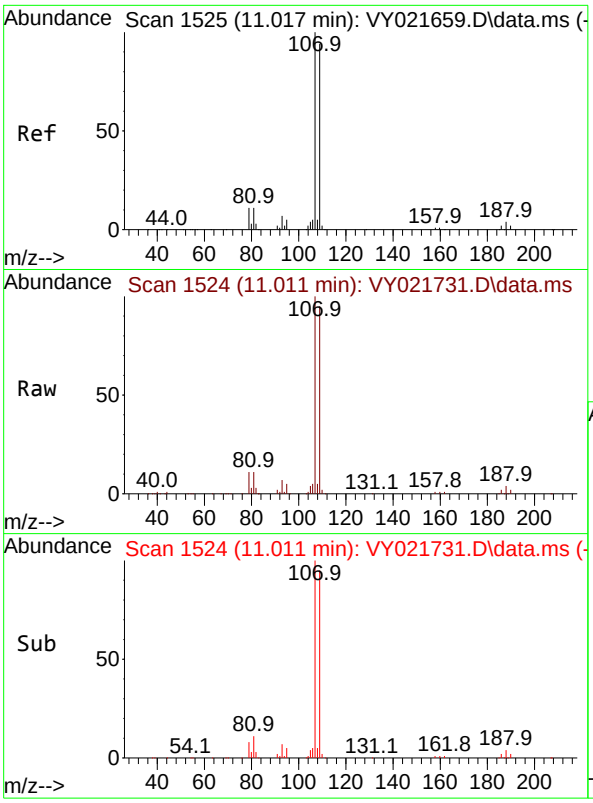


#60
Dibromochloromethane
Concen: 52.056 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:129 Resp: 154318

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.6	115.7

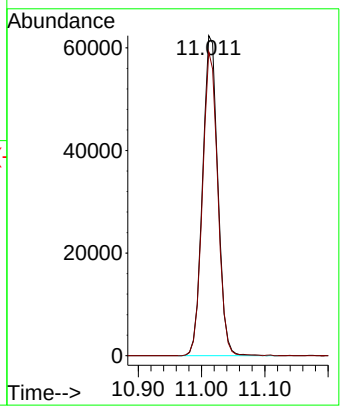




#61
1,2-Dibromoethane
Concen: 51.510 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

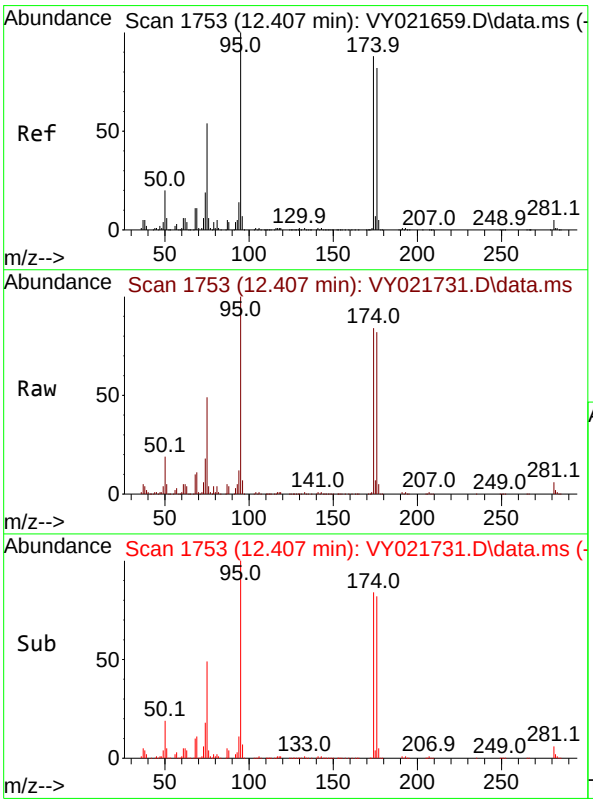
Tgt Ion:107 Resp: 10491

Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

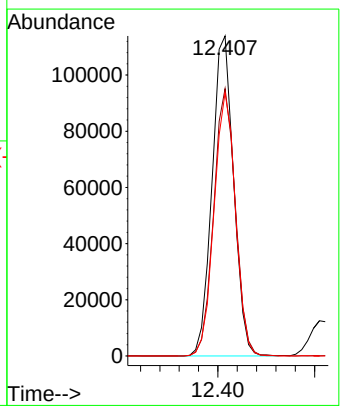
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

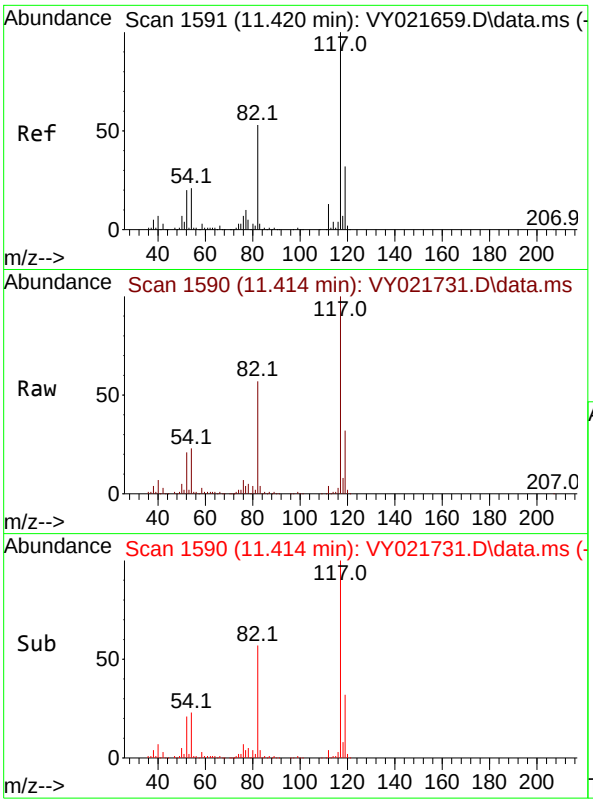


#62
4-Bromofluorobenzene
Concen: 50.479 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 95 Resp: 176122

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	170.8
176	81.6	0.0	162.0

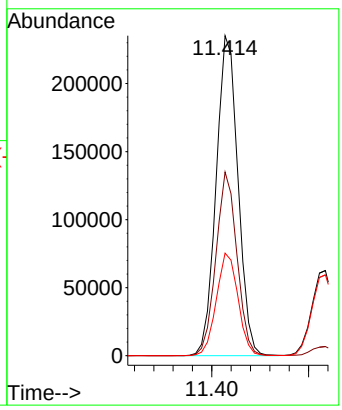




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:117 Resp: 36835

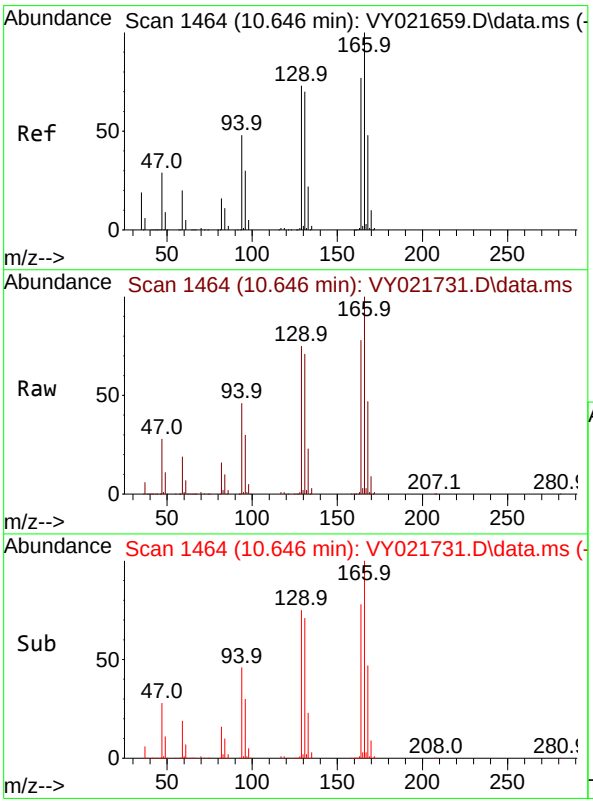
Ion	Ratio	Lower	Upper
117	100		
82	57.4	42.8	64.2
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

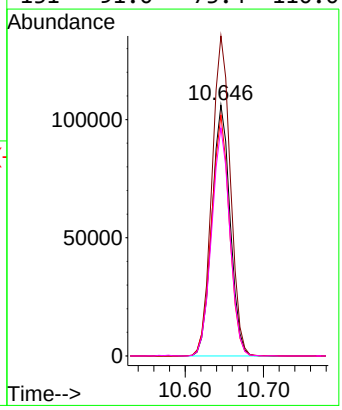
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

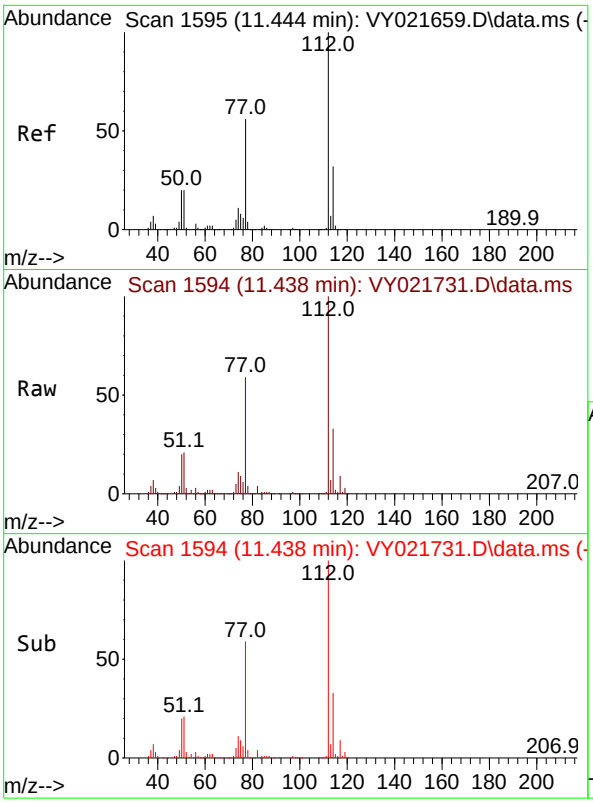


#64
Tetrachloroethene
Concen: 51.108 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:164 Resp: 171463

Ion	Ratio	Lower	Upper
164	100		
166	127.6	104.6	156.8
129	96.1	76.6	114.8
131	91.0	73.4	110.0

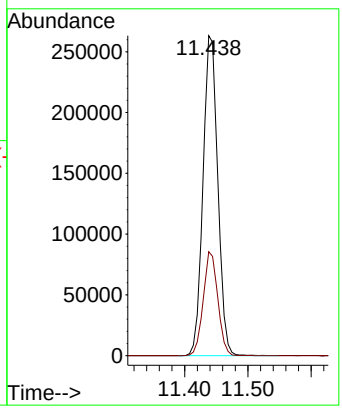




#65
Chlorobenzene
Concen: 50.741 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:112 Resp: 42845

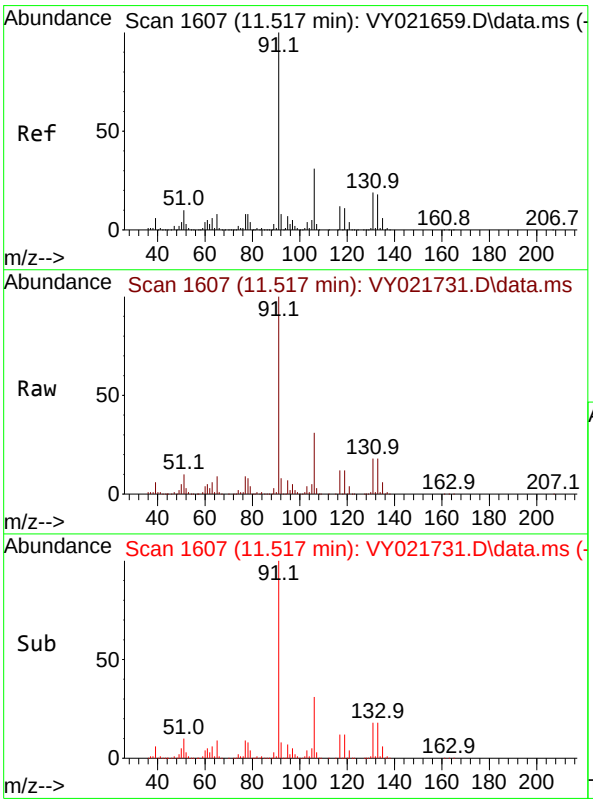
Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

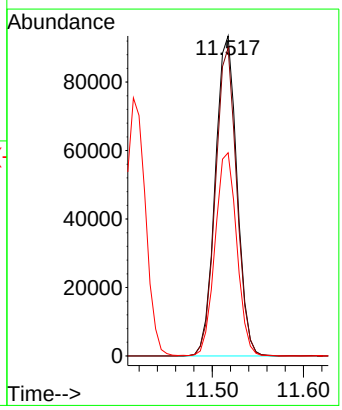
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

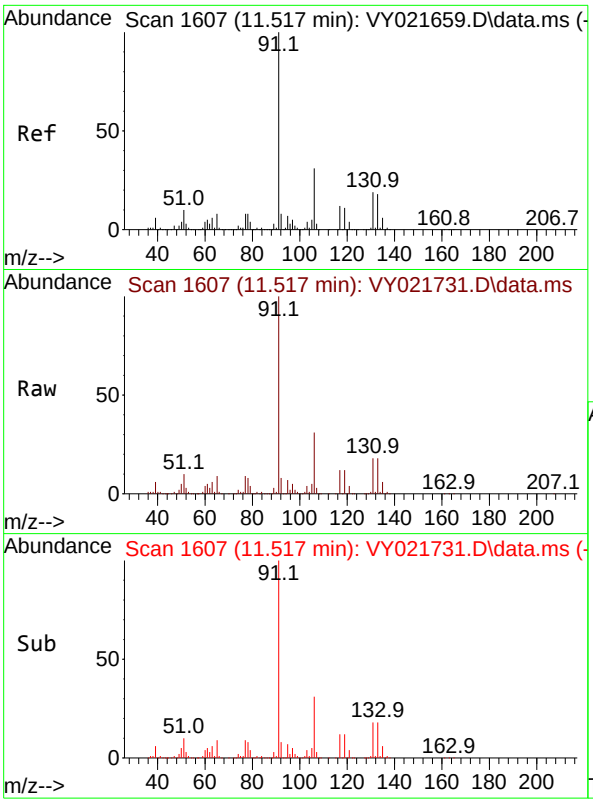


#66
1,1,1,2-Tetrachloroethane
Concen: 51.410 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:131 Resp: 154021

Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.3	141.8
119	63.8	31.6	95.0

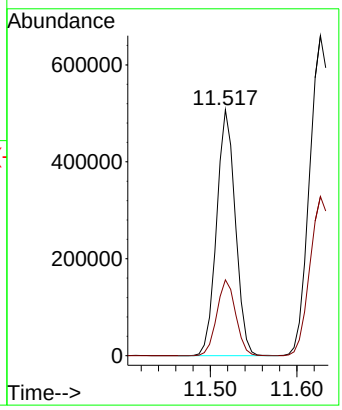




#67
Ethyl Benzene
Concen: 52.616 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 91 Resp: 76186

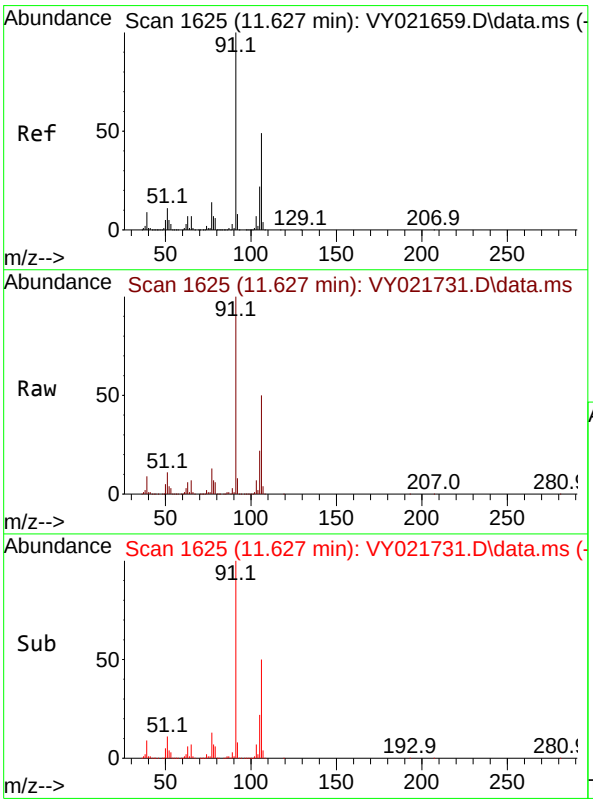
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

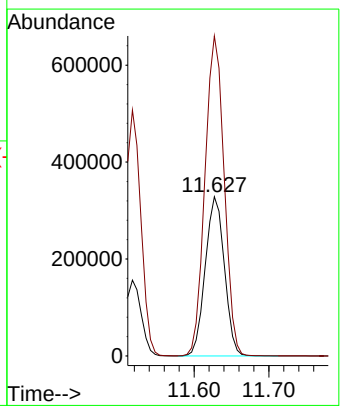
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

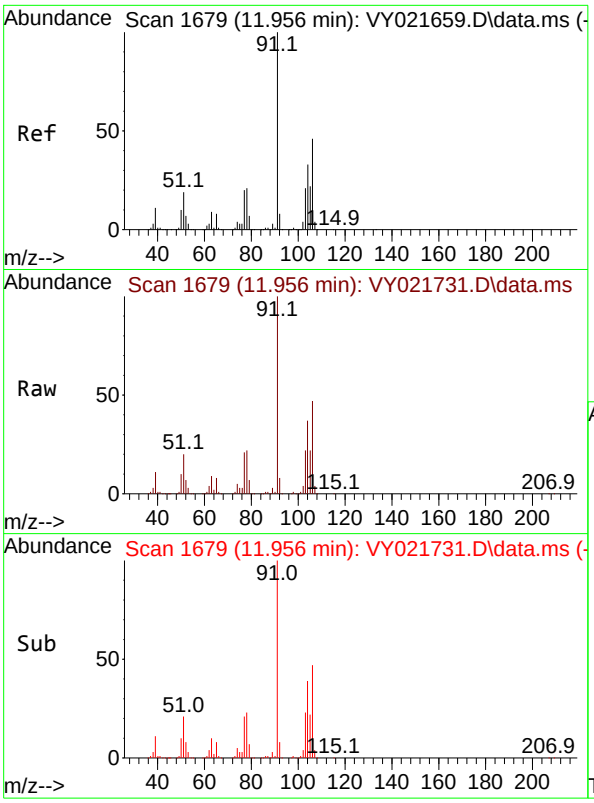


#68
m/p-Xylenes
Concen: 105.148 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:106 Resp: 583007

Ion	Ratio	Lower	Upper
106	100		
91	201.7	162.4	243.6





#69
o-Xylene
Concen: 53.570 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

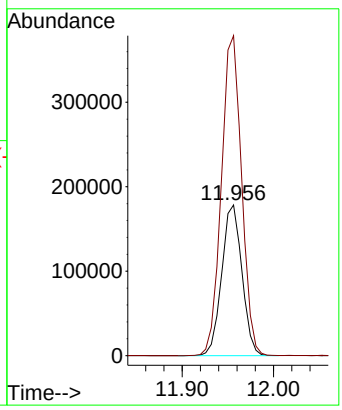
Tgt Ion:106 Resp: 27418

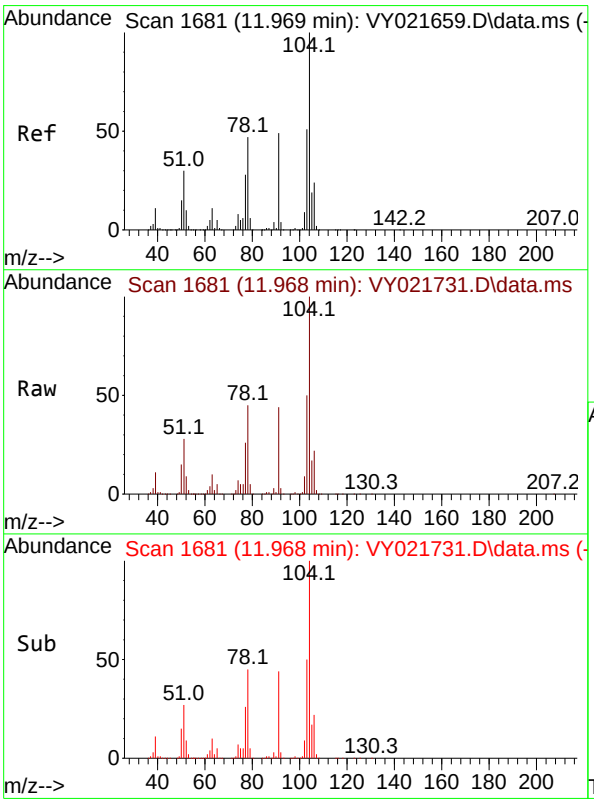
Ion	Ratio	Lower	Upper
106	100		
91	212.6	106.7	319.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

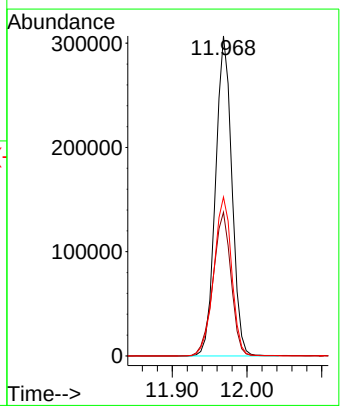


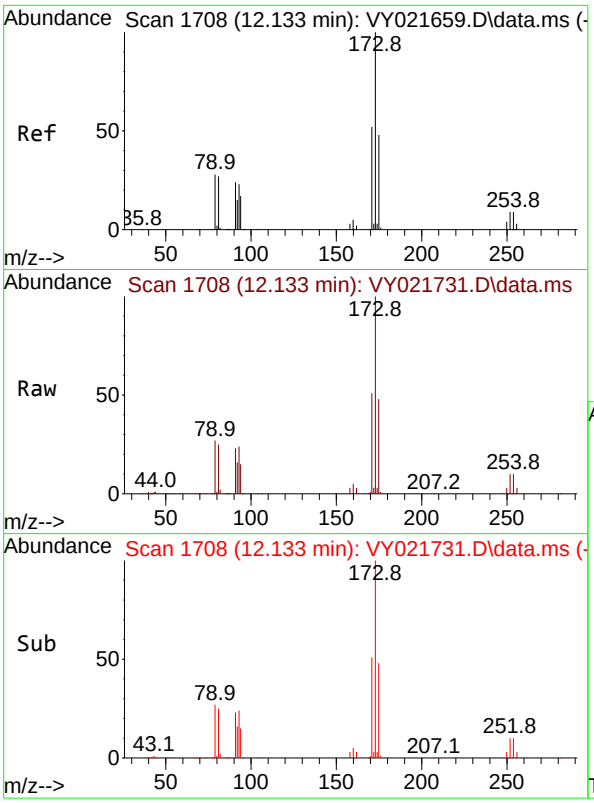


#70
Styrene
Concen: 54.619 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:104 Resp: 466097

Ion	Ratio	Lower	Upper
104	100		
78	49.5	40.8	61.2
103	54.3	44.2	66.2

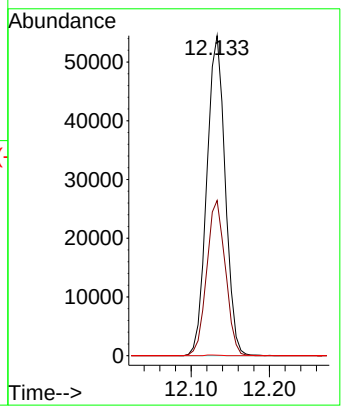




#71
Bromoform
Concen: 51.793 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

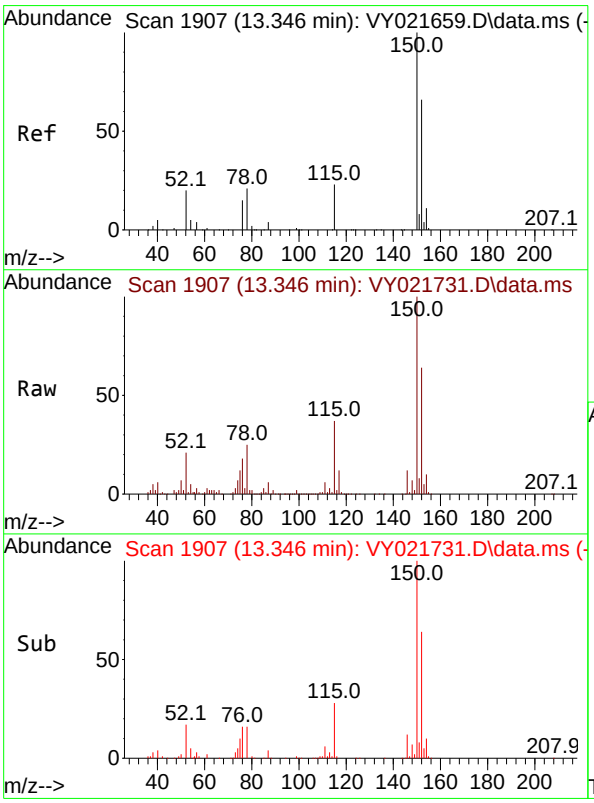
Tgt Ion:173 Resp: 8851

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.3	73.0
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

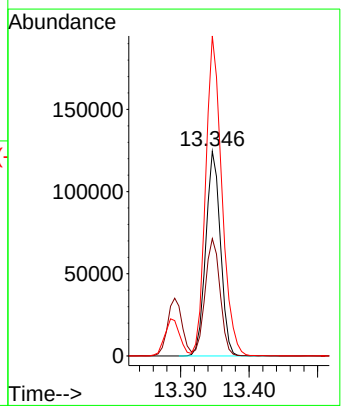
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

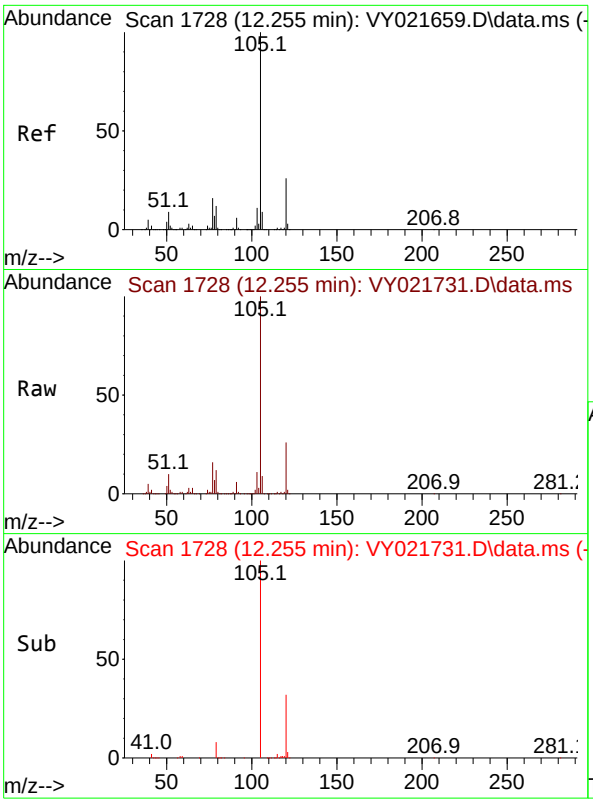


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:152 Resp: 185609

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.8	86.5
150	172.3	0.0	348.4

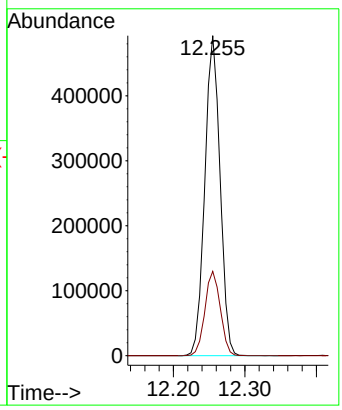




#73
Isopropylbenzene
Concen: 52.872 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:105 Resp: 72889

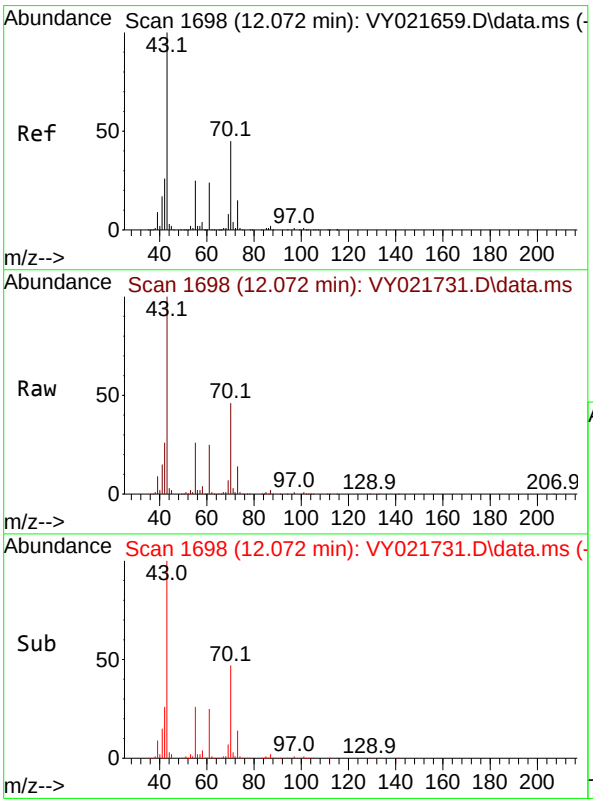
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

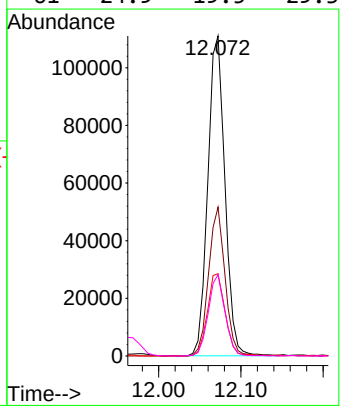
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

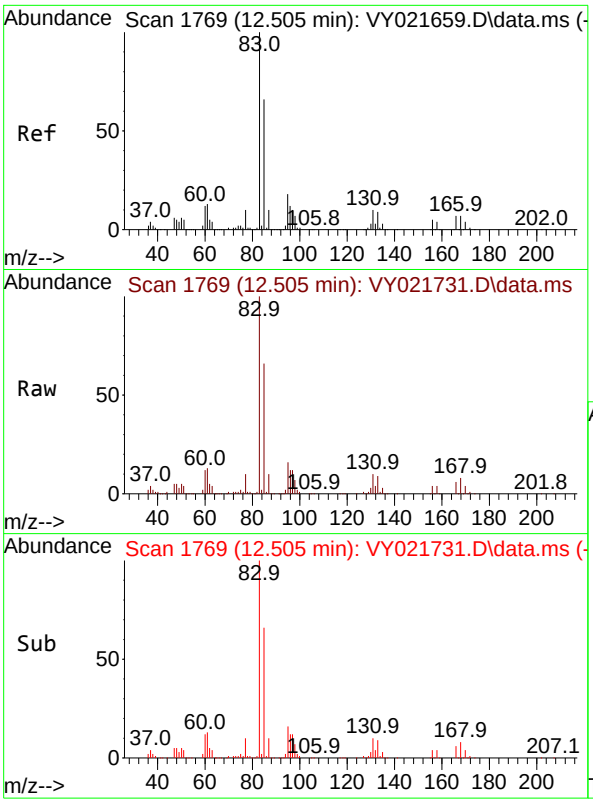


#74
N-amyl acetate
Concen: 49.600 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 43 Resp: 160475

Ion	Ratio	Lower	Upper
43	100		
70	44.9	34.7	52.1
55	26.9	21.2	31.8
61	24.9	19.5	29.3

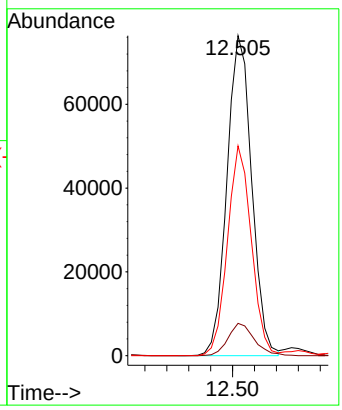




#75
1,1,2,2-Tetrachloroethane
Concen: 48.393 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 83 Resp: 11994

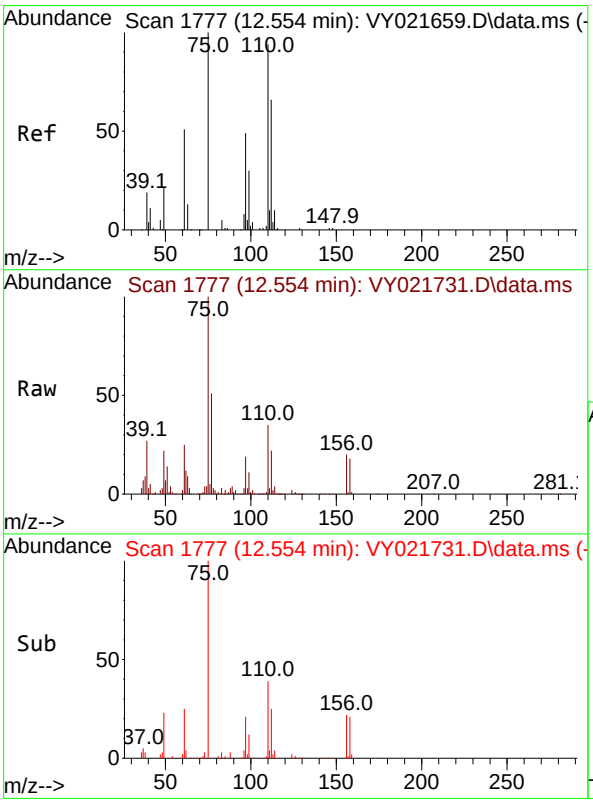
Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.1	15.3
85	63.2	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

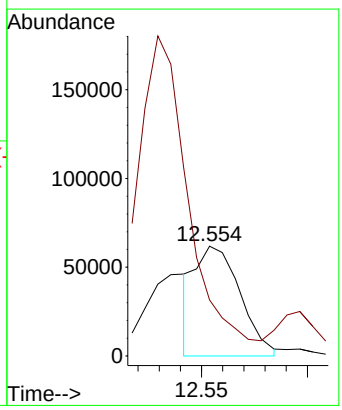
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

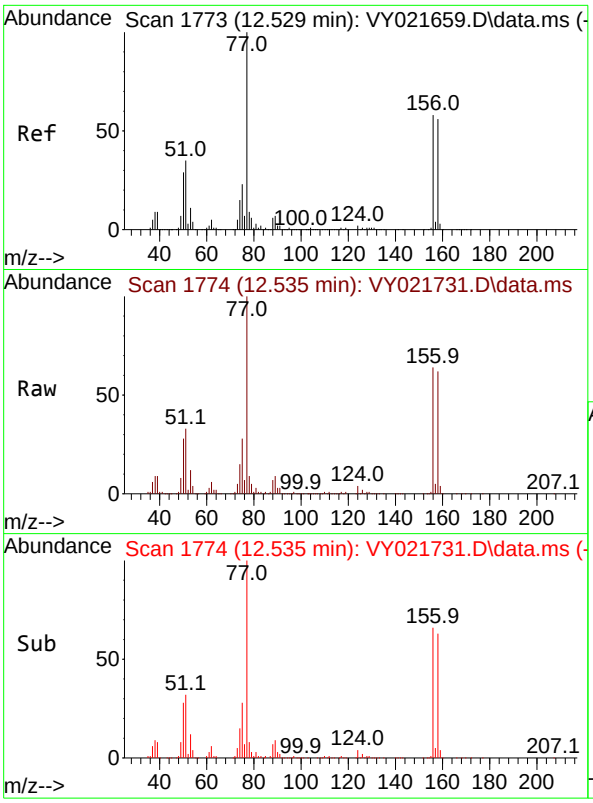


#76
1,2,3-Trichloropropane
Concen: 49.498 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 75 Resp: 91070

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

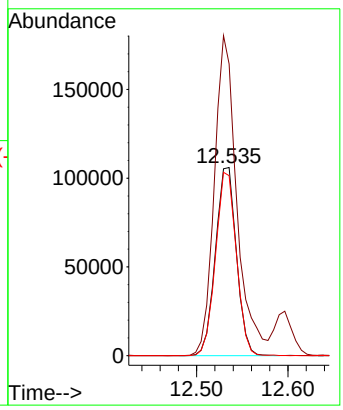




#77
Bromobenzene
Concen: 51.092 ug/l
RT: 12.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:156 Resp: 16911

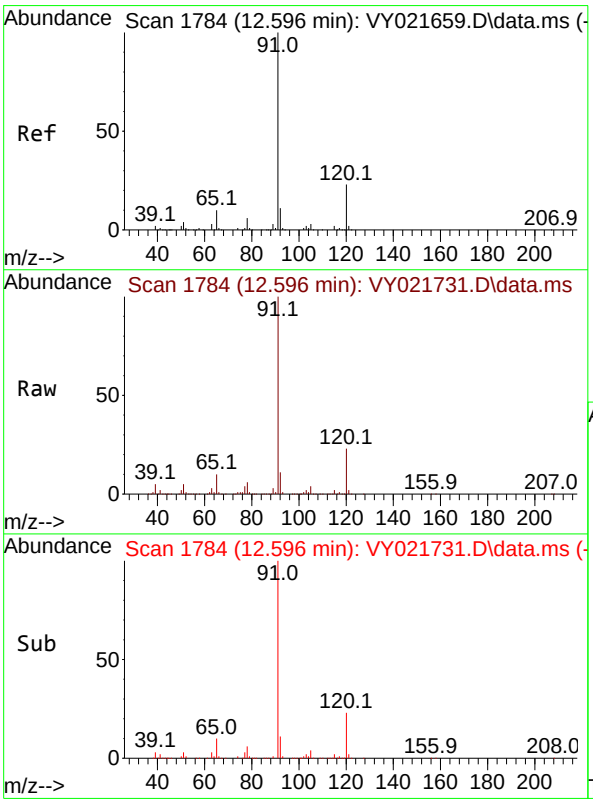
Ion	Ratio	Lower	Upper
156	100		
77	182.9	92.8	278.3
158	96.9	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

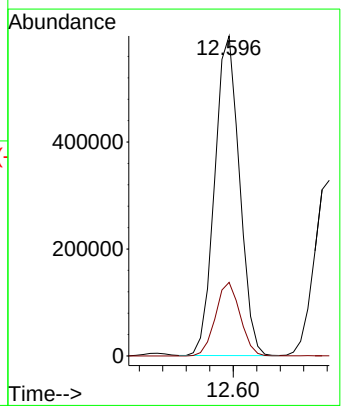
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

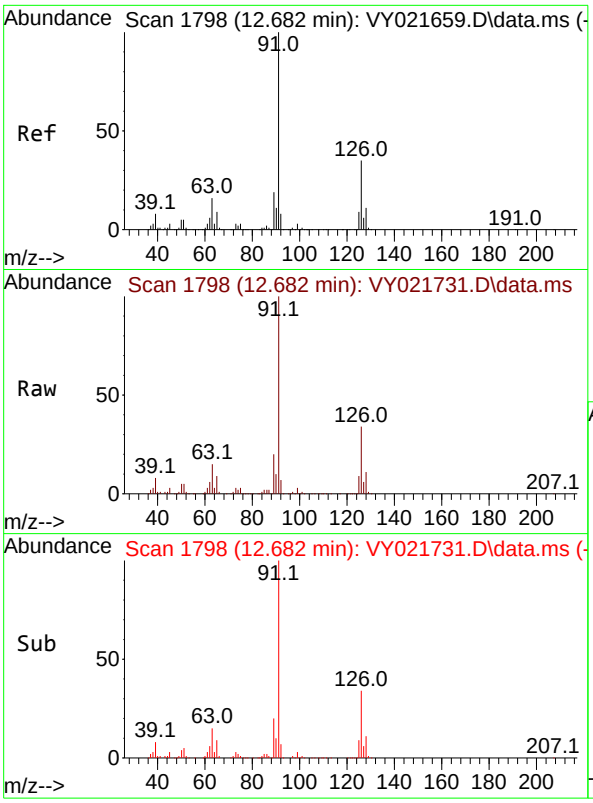


#78
n-propylbenzene
Concen: 52.863 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 91 Resp: 876144

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.3	33.9

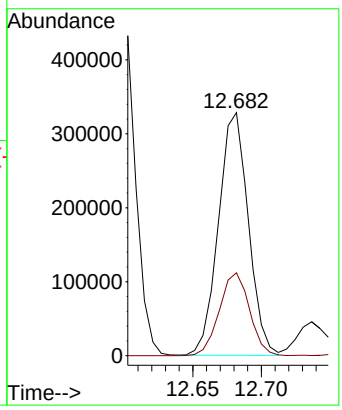




#79
2-Chlorotoluene
Concen: 51.750 ug/l
RT: 12.682 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 91 Resp: 49817

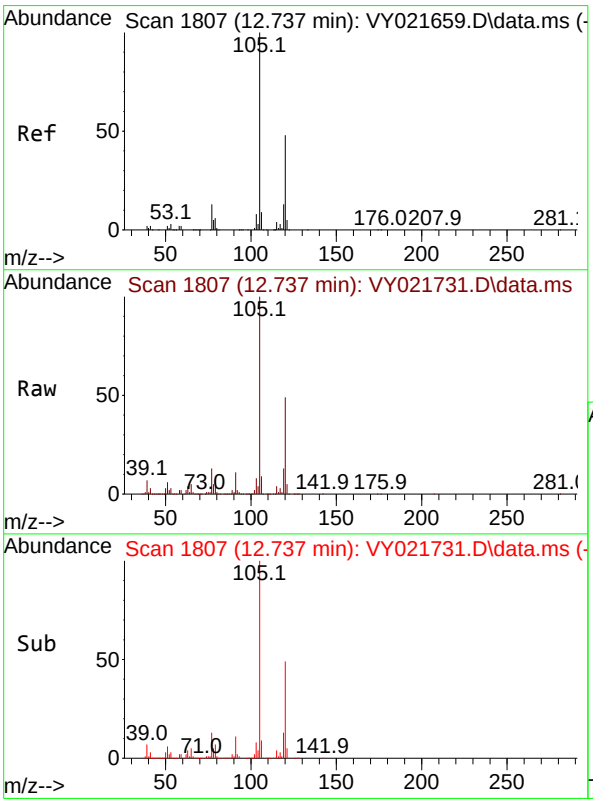
Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

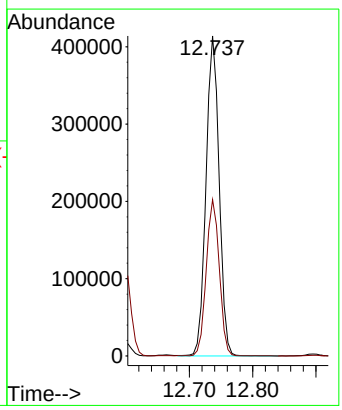
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

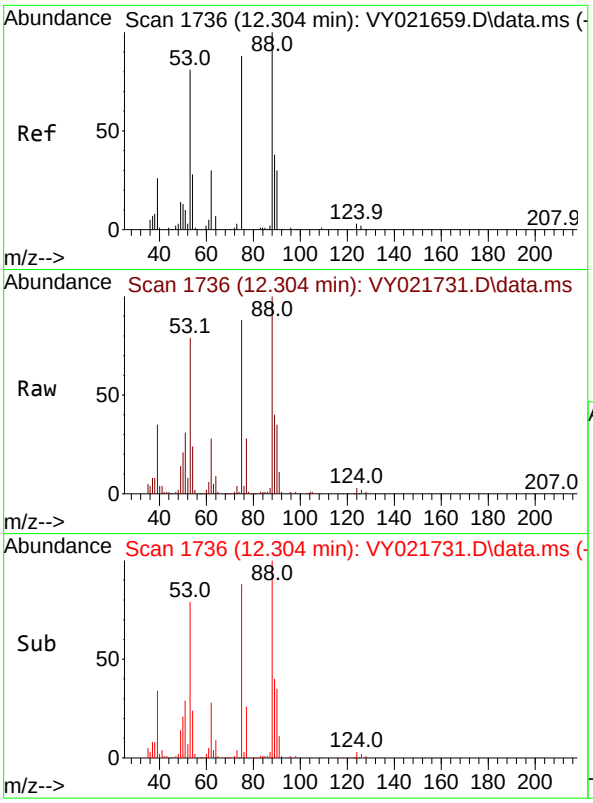


#80
1,3,5-Trimethylbenzene
Concen: 53.071 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:105 Resp: 597954

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.5	73.5

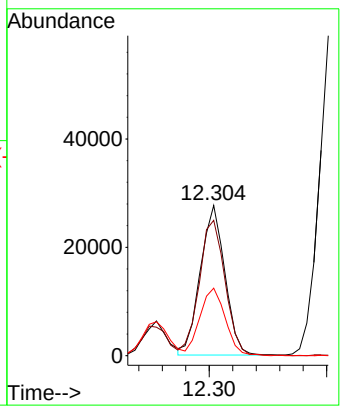




#81
trans-1,4-Dichloro-2-butene
Concen: 50.188 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

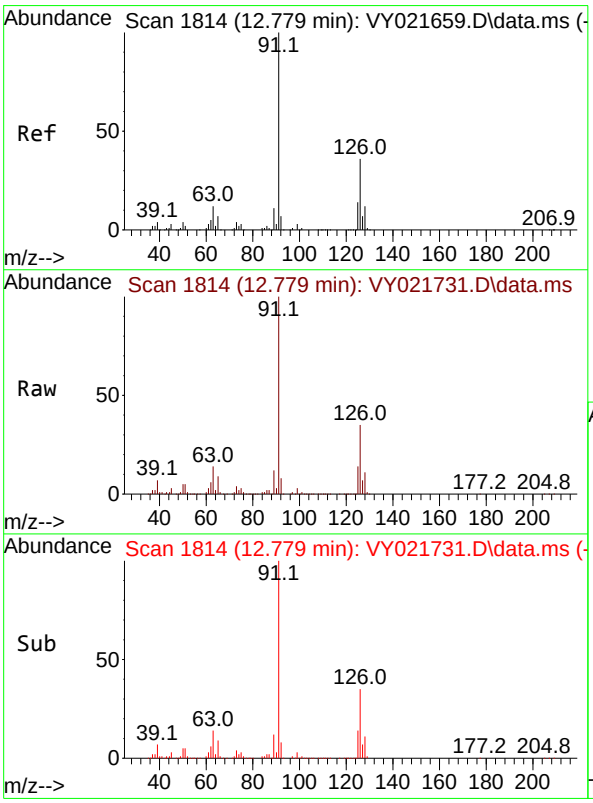
Tgt Ion: 75 Resp: 4007

Ion	Ratio	Lower	Upper
75	100		
53	96.3	76.1	114.1
89	46.6	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

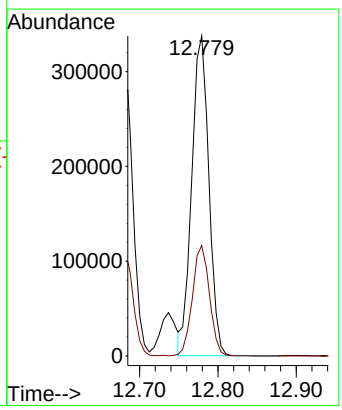
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

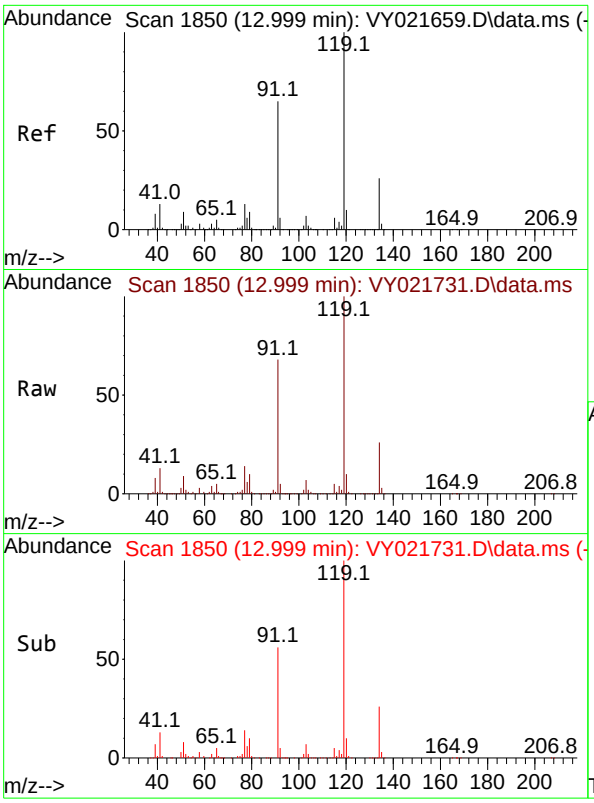


#82
4-Chlorotoluene
Concen: 51.186 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 91 Resp: 513706

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.0	50.9

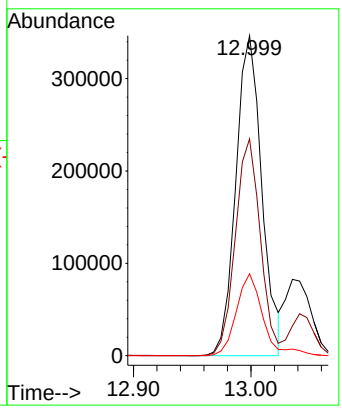




#83
tert-Butylbenzene
Concen: 53.141 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:119 Resp: 53329

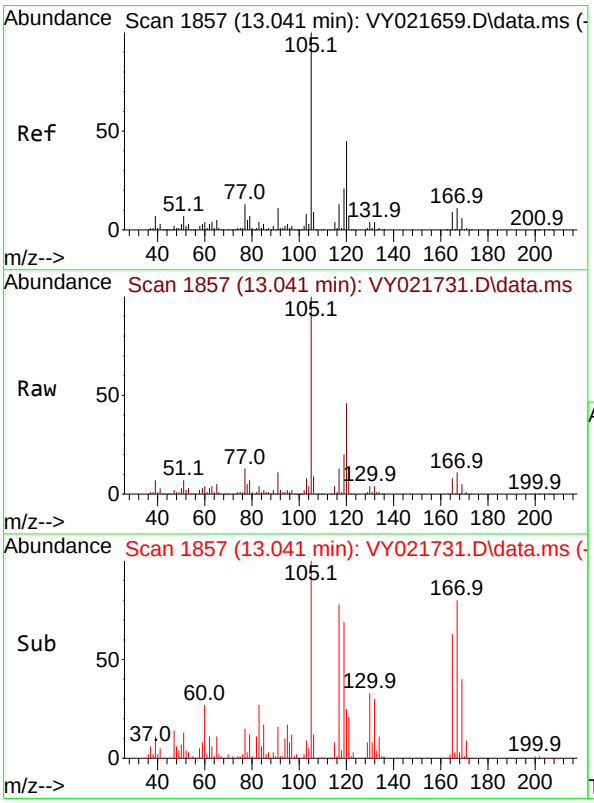
Ion	Ratio	Lower	Upper
119	100		
91	65.0	32.6	97.7
134	26.2	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

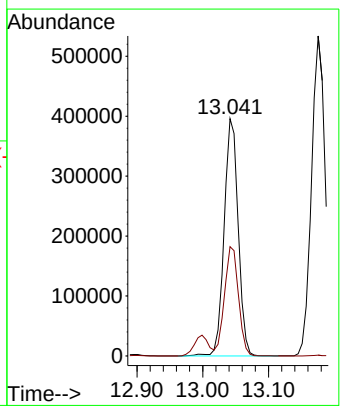
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

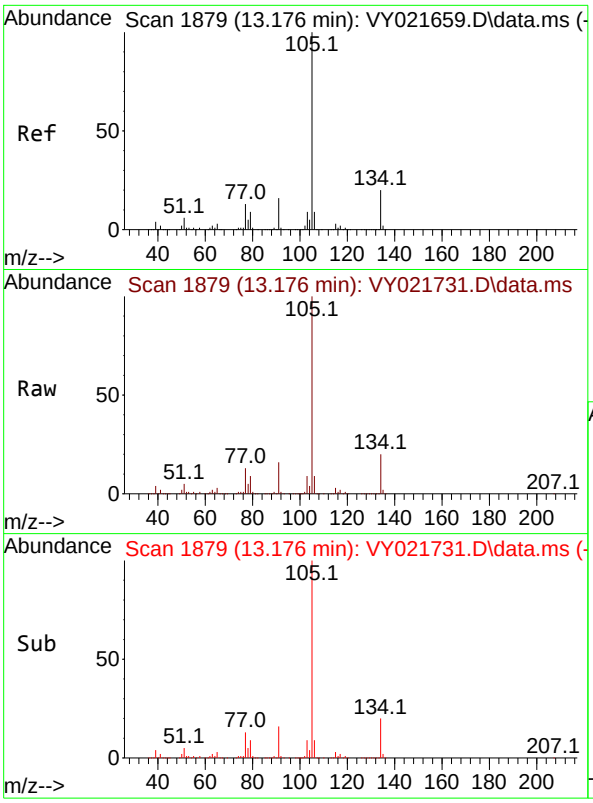


#84
1,2,4-Trimethylbenzene
Concen: 52.796 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:105 Resp: 587932

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.7	68.1

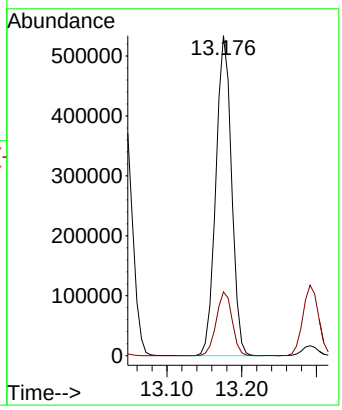




#85
sec-Butylbenzene
Concen: 53.059 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:105 Resp: 77815

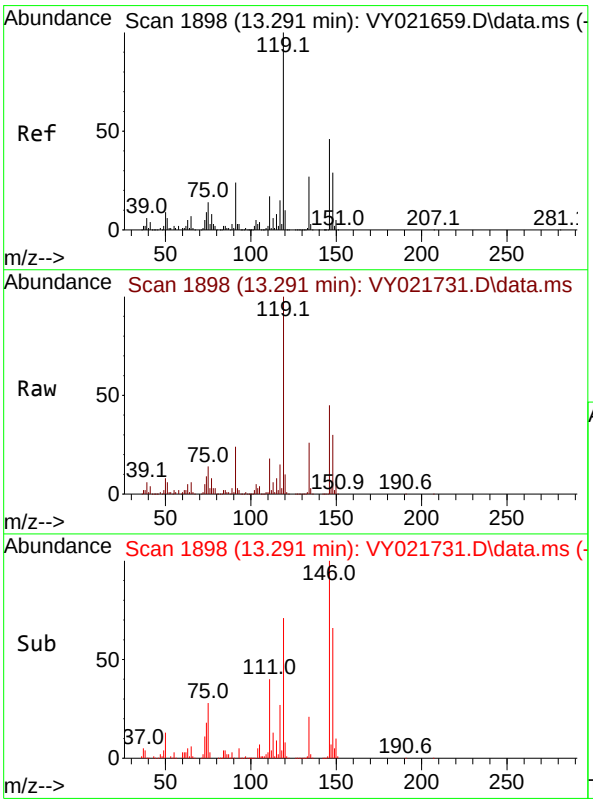
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

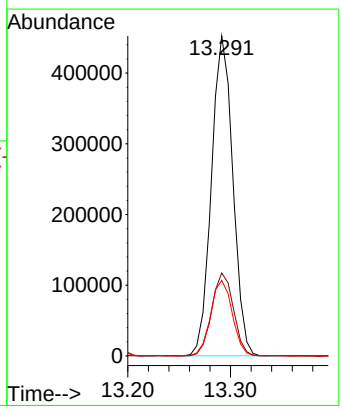
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

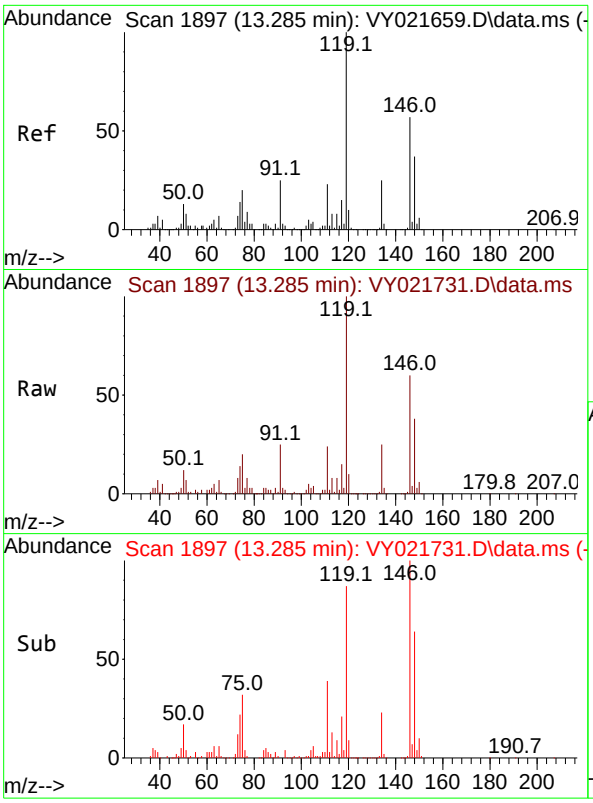


#86
p-Isopropyltoluene
Concen: 53.853 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:119 Resp: 652775

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.2	39.5
91	23.9	12.0	36.0

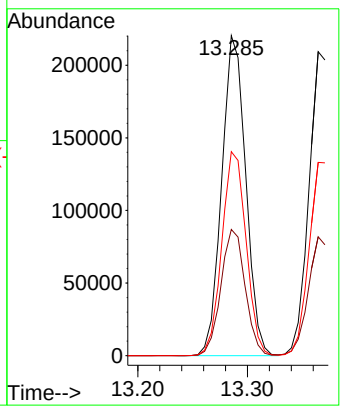




#87
1,3-Dichlorobenzene
Concen: 51.450 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:146 Resp: 33551

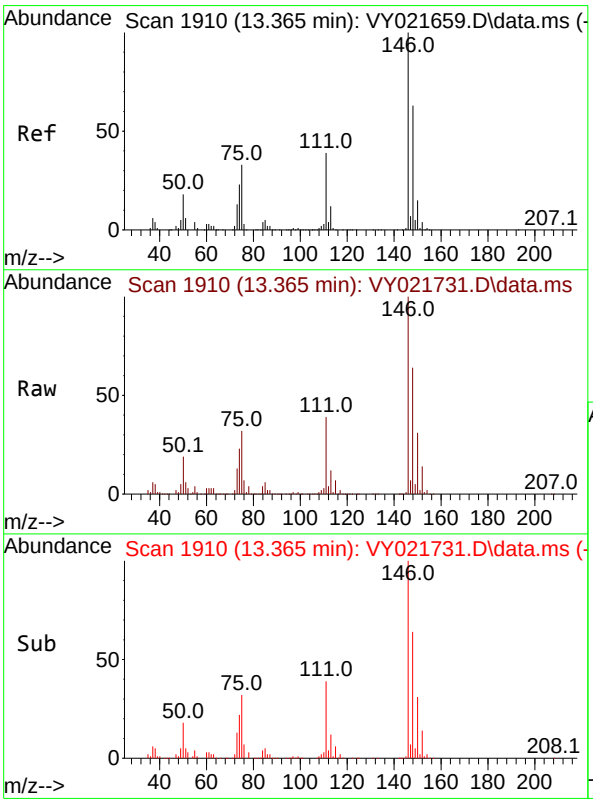
Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	60.0
148	64.5	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

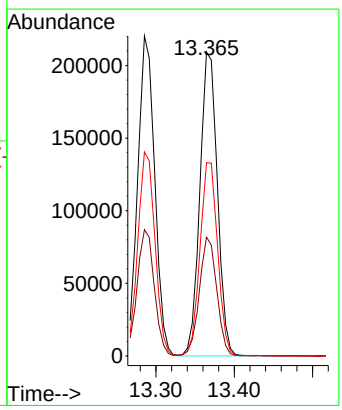
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

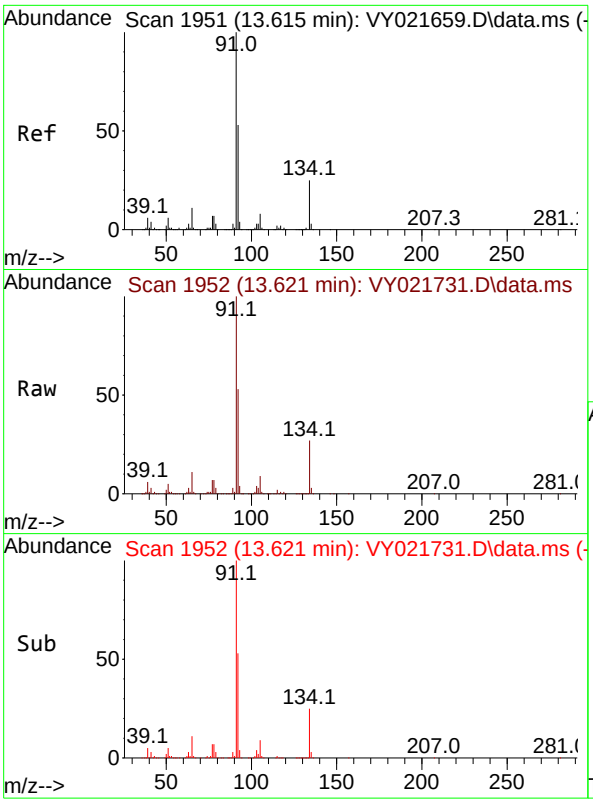


#88
1,4-Dichlorobenzene
Concen: 50.410 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:146 Resp: 324792

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.1
148	64.3	31.5	94.5

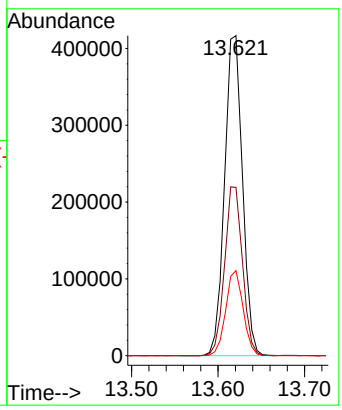




#89
n-Butylbenzene
Concen: 53.515 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 91 Resp: 59990

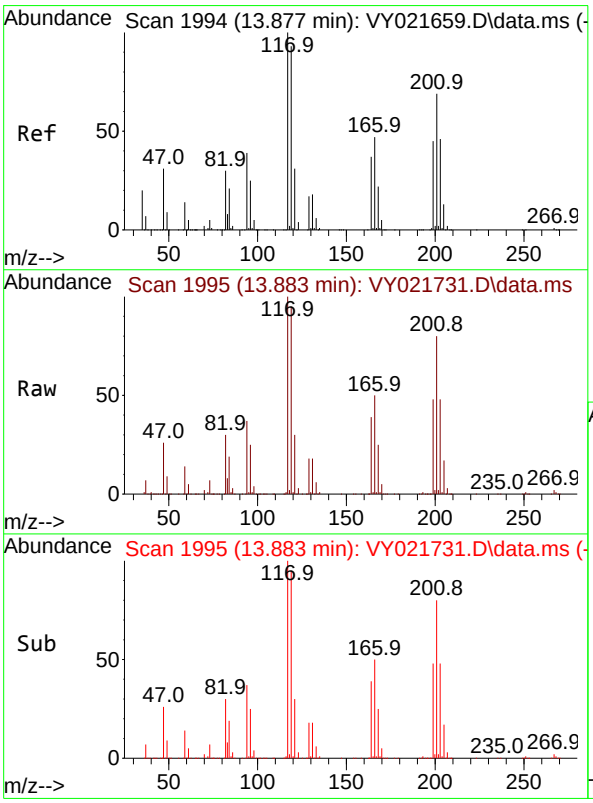
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.4	79.2
134	25.8	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

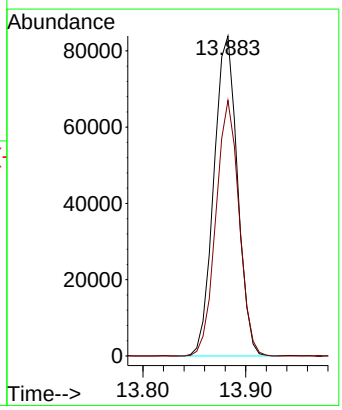
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

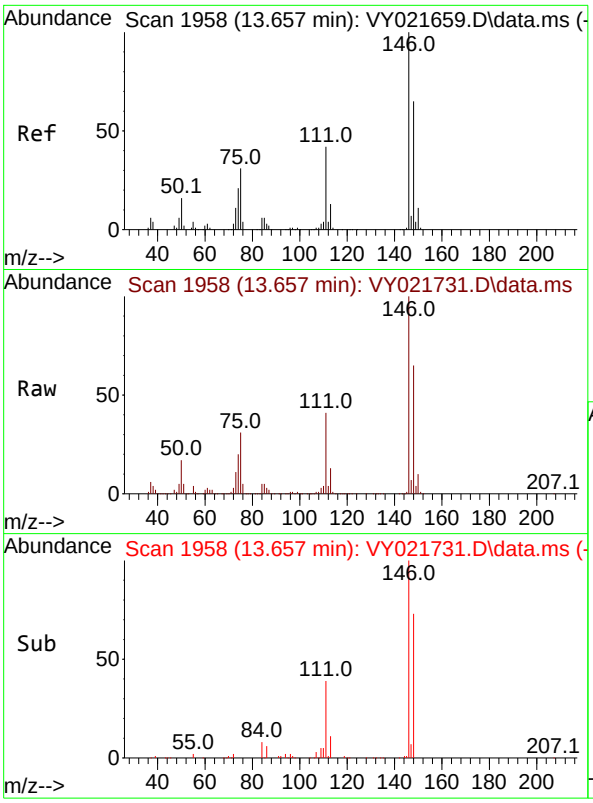


#90
Hexachloroethane
Concen: 50.349 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:117 Resp: 133741

Ion	Ratio	Lower	Upper
117	100		
201	78.4	37.4	112.1

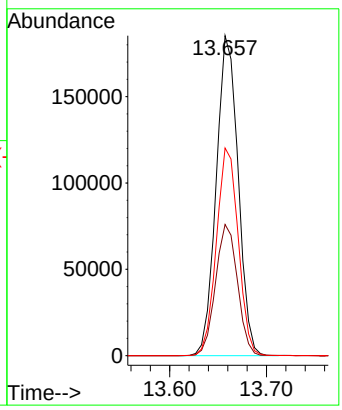




#91
1,2-Dichlorobenzene
Concen: 51.280 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:146 Resp: 29110

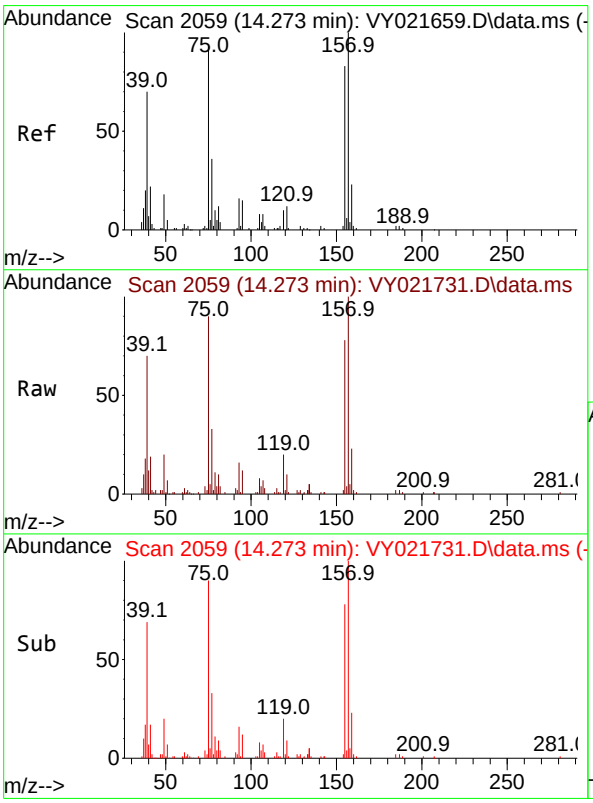
Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.7	62.1
148	64.8	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

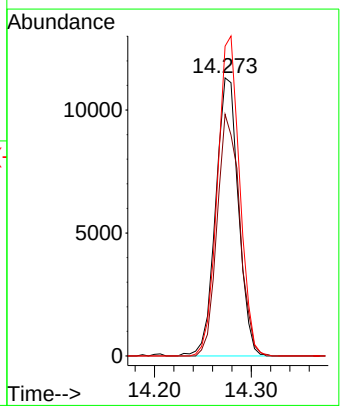
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

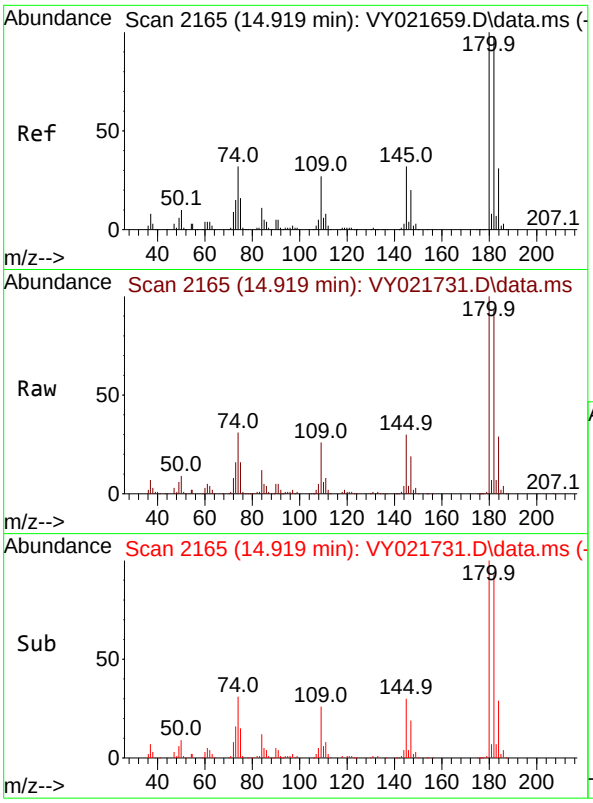


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.978 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion: 75 Resp: 18431

Ion	Ratio	Lower	Upper
75	100		
155	85.8	43.0	128.8
157	112.2	54.0	162.0





#93
1,2,4-Trichlorobenzene
Concen: 54.551 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

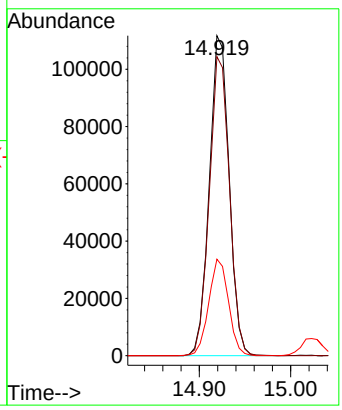
Tgt Ion:180 Resp: 16793

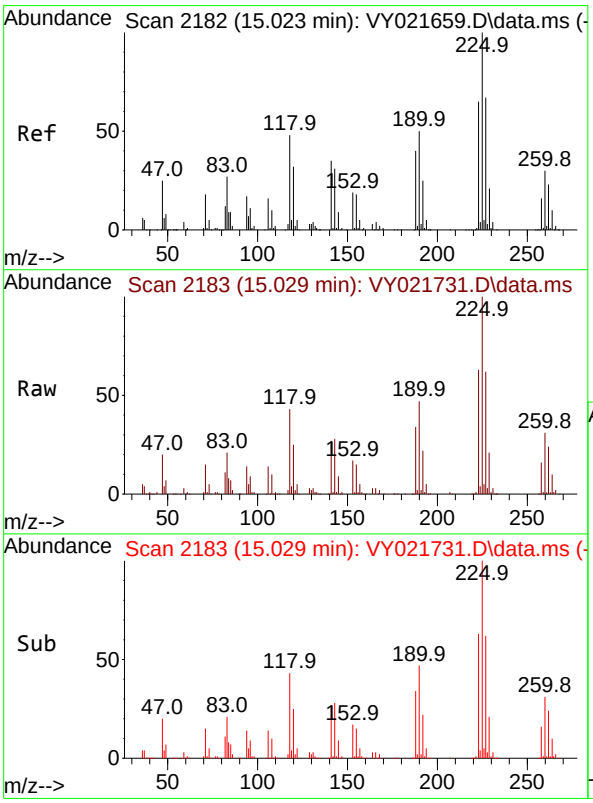
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.6
145	30.1	14.9	44.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

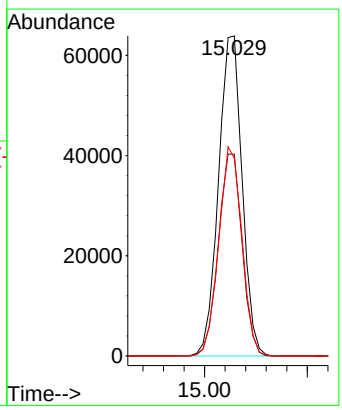


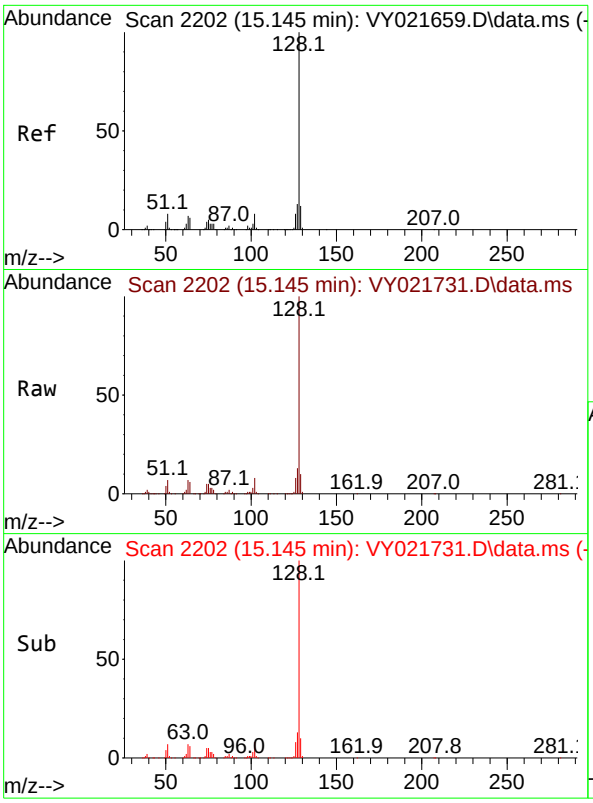


#94
Hexachlorobutadiene
Concen: 52.955 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:225 Resp: 101814

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.9	95.7
227	64.2	32.4	97.0

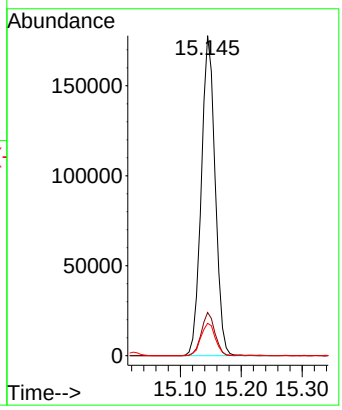




#95
Naphthalene
Concen: 55.186 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:128 Resp: 28160

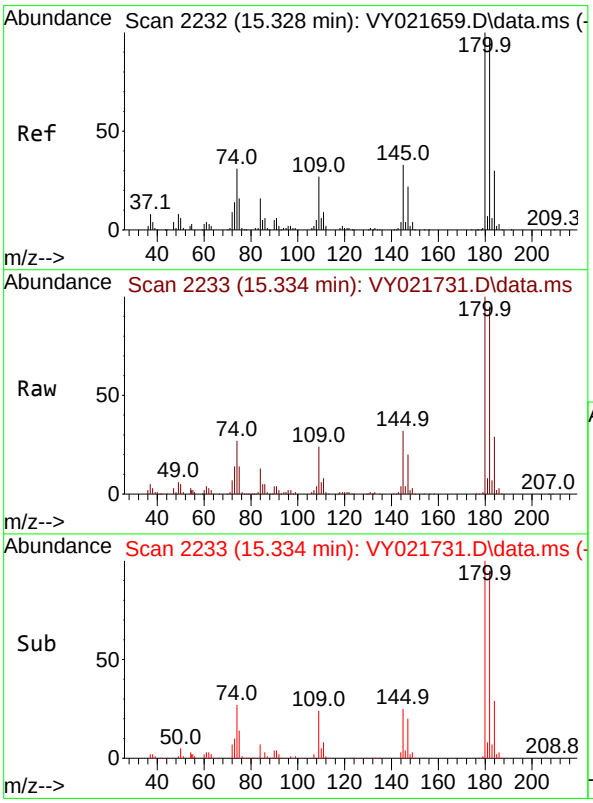
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.8	16.2
129	10.6	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

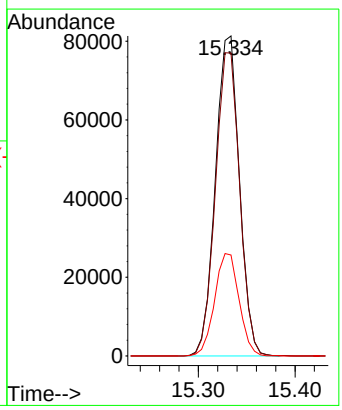
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 53.436 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY021731.D
Acq: 01 Apr 2025 10:13

Tgt Ion:180 Resp: 140280

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.5
145	32.5	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
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: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	112	0.00
2	T	Dichlorodifluoromethane	0.518	0.503	2.9	111	0.00
3	P	Chloromethane	0.729	0.661	9.3	107	0.00
4	C	Vinyl Chloride	0.824	0.773	6.2#	108	0.00
5	T	Bromomethane	0.562	0.514	8.5	112	0.00
6	T	Chloroethane	0.539	0.495	8.2	108	0.00
7	T	Trichlorofluoromethane	1.056	1.042	1.3	115	0.00
8	T	Diethyl Ether	0.287	0.277	3.5	113	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.557	0.558	-0.2	117	0.00
10	T	Methyl Iodide	0.611	0.640	-4.7	109	0.00
11	T	Tert butyl alcohol	0.035	0.032	8.6	105	0.00
12	CM	1,1-Dichloroethene	0.524	0.526	-0.4#	115	0.00
13	T	Acrolein	0.064	0.037	42.2#	65	0.00
14	T	Allyl chloride	0.836	0.818	2.2	109	0.00
15	T	Acrylonitrile	0.120	0.114	5.0	106	-0.01
16	T	Acetone	0.111	0.089	19.8	93	0.00
17	T	Carbon Disulfide	1.727	1.673	3.1	111	0.00
18	T	Methyl Acetate	0.275	0.287	-4.4	121	0.00
19	T	Methyl tert-butyl Ether	1.306	1.321	-1.1	112	0.00
20	T	Methylene Chloride	0.626	0.569	9.1	113	0.00
21	T	trans-1,2-Dichloroethene	0.577	0.583	-1.0	115	0.00
22	T	Diisopropyl ether	1.754	1.746	0.5	109	0.00
23	T	Vinyl Acetate	1.026	1.002	2.3	105	0.00
24	P	1,1-Dichloroethane	1.049	1.041	0.8	112	0.00
25	T	2-Butanone	0.158	0.142	10.1	100	0.00
26	T	2,2-Dichloropropane	0.933	0.925	0.9	113	0.00
27	T	cis-1,2-Dichloroethene	0.649	0.669	-3.1	115	0.00
28	T	Bromochloromethane	0.442	0.402	9.0	106	0.00
29	T	Tetrahydrofuran	0.102	0.097	4.9	104	0.00
30	C	Chloroform	1.091	1.087	0.4#	113	0.00
31	T	Cyclohexane	0.956	0.916	4.2	112	0.00
32	T	1,1,1-Trichloroethane	0.986	0.985	0.1	114	0.00
33	S	1,2-Dichloroethane-d4	0.542	0.509	6.1	104	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	113	0.00
35	S	Dibromofluoromethane	0.324	0.320	1.2	107	0.00
36	T	1,1-Dichloropropene	0.494	0.501	-1.4	113	0.00
37	T	Ethyl Acetate	0.233	0.218	6.4	105	-0.01
38	T	Carbon Tetrachloride	0.566	0.583	-3.0	117	0.00
39	T	Methylcyclohexane	0.590	0.628	-6.4	114	0.00
40	TM	Benzene	1.479	1.490	-0.7	112	0.00
41	T	Methacrylonitrile	0.124	0.119	4.0	99	-0.02
42	TM	1,2-Dichloroethane	0.417	0.409	1.9	110	0.00
43	T	Isopropyl Acetate	0.442	0.430	2.7	108	0.00
44	TM	Trichloroethene	0.377	0.389	-3.2	117	0.00
45	C	1,2-Dichloropropane	0.350	0.354	-1.1#	113	0.00
46	T	Dibromomethane	0.202	0.201	0.5	115	0.00
47	T	Bromodichloromethane	0.523	0.529	-1.1	114	0.00
48	T	Methyl methacrylate	0.203	0.202	0.5	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
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: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	112	0.00
50	S	Toluene-d8	1.234	1.227	0.6	106	0.00
51	T	4-Methyl-2-Pentanone	0.230	0.225	2.2	106	0.00
52	CM	Toluene	0.923	0.962	-4.2#	114	0.00
53	T	t-1,3-Dichloropropene	0.465	0.479	-3.0	111	0.00
54	T	cis-1,3-Dichloropropene	0.548	0.555	-1.3	111	0.00
55	T	1,1,2-Trichloroethane	0.260	0.267	-2.7	115	0.00
56	T	Ethyl methacrylate	0.332	0.353	-6.3	109	0.00
57	T	1,3-Dichloropropane	0.449	0.453	-0.9	111	0.00
58	T	2-Chloroethyl Vinyl ether	0.162	0.169	-4.3	106	0.00
59	T	2-Hexanone	0.153	0.149	2.6	103	0.00
60	T	Dibromochloromethane	0.355	0.369	-3.9	115	0.00
61	T	1,2-Dibromoethane	0.244	0.251	-2.9	112	0.00
62	S	4-Bromofluorobenzene	0.417	0.421	-1.0	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
64	T	Tetrachloroethene	0.455	0.465	-2.2	116	0.00
65	PM	Chlorobenzene	1.146	1.163	-1.5	113	0.00
66	T	1,1,1,2-Tetrachloroethane	0.407	0.418	-2.7	114	0.00
67	C	Ethyl Benzene	1.965	2.068	-5.2#	113	0.00
68	T	m/p-Xylenes	0.753	0.791	-5.0	112	0.00
69	T	o-Xylene	0.695	0.744	-7.1	113	0.00
70	T	Styrene	1.158	1.265	-9.2	115	0.00
71	P	Bromoform	0.232	0.240	-3.4	113	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
73	T	Isopropylbenzene	3.714	3.927	-5.7	113	0.00
74	T	N-amyl acetate	0.872	0.865	0.8	104	0.00
75	P	1,1,2,2-Tetrachloroethane	0.668	0.646	3.3	109	0.00
76	T	1,2,3-Trichloropropane	0.496	0.491	1.0	109	0.00
77	T	Bromobenzene	0.892	0.911	-2.1	113	0.00
78	T	n-propylbenzene	4.465	4.720	-5.7	113	0.00
79	T	2-Chlorotoluene	2.593	2.684	-3.5	112	0.00
80	T	1,3,5-Trimethylbenzene	3.035	3.222	-6.2	113	0.00
81	T	trans-1,4-Dichloro-2-butene	0.215	0.216	-0.5	108	0.00
82	T	4-Chlorotoluene	2.704	2.768	-2.4	111	0.00
83	T	tert-Butylbenzene	2.703	2.873	-6.3	114	0.00
84	T	1,2,4-Trimethylbenzene	3.000	3.168	-5.6	112	0.00
85	T	sec-Butylbenzene	3.951	4.192	-6.1	113	0.00
86	T	p-Isopropyltoluene	3.265	3.517	-7.7	113	0.00
87	T	1,3-Dichlorobenzene	1.757	1.808	-2.9	114	0.00
88	T	1,4-Dichlorobenzene	1.736	1.750	-0.8	111	0.00
89	T	n-Butylbenzene	3.020	3.232	-7.0	113	0.00
90	T	Hexachloroethane	0.716	0.721	-0.7	113	0.00
91	T	1,2-Dichlorobenzene	1.529	1.568	-2.6	114	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.103	0.099	3.9	108	0.00
93	T	1,2,4-Trichlorobenzene	0.829	0.905	-9.2	114	0.00
94	T	Hexachlorobutadiene	0.518	0.549	-6.0	116	0.00
95	T	Naphthalene	1.375	1.517	-10.3	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
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: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	0.707	0.756	-6.9	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
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: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	112	0.00
2	T	Dichlorodifluoromethane	50.000	48.547	2.9	111	0.00
3	P	Chloromethane	50.000	45.323	9.4	107	0.00
4	C	Vinyl Chloride	50.000	46.900	6.2#	108	0.00
5	T	Bromomethane	50.000	45.709	8.6	112	0.00
6	T	Chloroethane	50.000	45.918	8.2	108	0.00
7	T	Trichlorofluoromethane	50.000	49.366	1.3	115	0.00
8	T	Diethyl Ether	50.000	48.310	3.4	113	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.077	-0.2	117	0.00
10	T	Methyl Iodide	50.000	52.351	-4.7	109	0.00
11	T	Tert butyl alcohol	250.000	225.735	9.7	105	0.00
12	CM	1,1-Dichloroethene	50.000	50.166	-0.3#	115	0.00
13	T	Acrolein	250.000	142.192	43.1#	65	0.00
14	T	Allyl chloride	50.000	48.883	2.2	109	0.00
15	T	Acrylonitrile	250.000	238.441	4.6	106	-0.01
16	T	Acetone	250.000	199.954	20.0	93	0.00
17	T	Carbon Disulfide	50.000	48.433	3.1	111	0.00
18	T	Methyl Acetate	50.000	52.162	-4.3	121	0.00
19	T	Methyl tert-butyl Ether	50.000	50.590	-1.2	112	0.00
20	T	Methylene Chloride	50.000	52.656	-5.3	113	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.474	-0.9	115	0.00
22	T	Diisopropyl ether	50.000	49.759	0.5	109	0.00
23	T	Vinyl Acetate	250.000	244.119	2.4	105	0.00
24	P	1,1-Dichloroethane	50.000	49.622	0.8	112	0.00
25	T	2-Butanone	250.000	224.955	10.0	100	0.00
26	T	2,2-Dichloropropane	50.000	49.566	0.9	113	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.514	-3.0	115	0.00
28	T	Bromochloromethane	50.000	45.407	9.2	106	0.00
29	T	Tetrahydrofuran	250.000	238.865	4.5	104	0.00
30	C	Chloroform	50.000	49.822	0.4#	113	0.00
31	T	Cyclohexane	50.000	47.893	4.2	112	0.00
32	T	1,1,1-Trichloroethane	50.000	49.940	0.1	114	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.014	6.0	104	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	113	0.00
35	S	Dibromofluoromethane	50.000	49.401	1.2	107	0.00
36	T	1,1-Dichloropropene	50.000	50.689	-1.4	113	0.00
37	T	Ethyl Acetate	50.000	46.847	6.3	105	-0.01
38	T	Carbon Tetrachloride	50.000	51.515	-3.0	117	0.00
39	T	Methylcyclohexane	50.000	53.177	-6.4	114	0.00
40	TM	Benzene	50.000	50.353	-0.7	112	0.00
41	T	Methacrylonitrile	50.000	48.231	3.5	99	-0.02
42	TM	1,2-Dichloroethane	50.000	48.971	2.1	110	0.00
43	T	Isopropyl Acetate	50.000	48.688	2.6	108	0.00
44	TM	Trichloroethene	50.000	51.597	-3.2	117	0.00
45	C	1,2-Dichloropropane	50.000	50.563	-1.1#	113	0.00
46	T	Dibromomethane	50.000	49.889	0.2	115	0.00
47	T	Bromodichloromethane	50.000	50.556	-1.1	114	0.00
48	T	Methyl methacrylate	50.000	49.779	0.4	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
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: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	1019.727	-2.0	112	0.00
50	S	Toluene-d8	50.000	49.740	0.5	106	0.00
51	T	4-Methyl-2-Pentanone	250.000	244.928	2.0	106	0.00
52	CM	Toluene	50.000	52.098	-4.2#	114	0.00
53	T	t-1,3-Dichloropropene	50.000	51.562	-3.1	111	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.675	-1.3	111	0.00
55	T	1,1,2-Trichloroethane	50.000	51.351	-2.7	115	0.00
56	T	Ethyl methacrylate	50.000	53.145	-6.3	109	0.00
57	T	1,3-Dichloropropane	50.000	50.545	-1.1	111	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	261.293	-4.5	106	0.00
59	T	2-Hexanone	250.000	242.897	2.8	103	0.00
60	T	Dibromochloromethane	50.000	52.056	-4.1	115	0.00
61	T	1,2-Dibromoethane	50.000	51.510	-3.0	112	0.00
62	S	4-Bromofluorobenzene	50.000	50.479	-1.0	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	112	0.00
64	T	Tetrachloroethene	50.000	51.108	-2.2	116	0.00
65	PM	Chlorobenzene	50.000	50.741	-1.5	113	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.410	-2.8	114	0.00
67	C	Ethyl Benzene	50.000	52.616	-5.2#	113	0.00
68	T	m/p-Xylenes	100.000	105.148	-5.1	112	0.00
69	T	o-Xylene	50.000	53.570	-7.1	113	0.00
70	T	Styrene	50.000	54.619	-9.2	115	0.00
71	P	Bromoform	50.000	51.793	-3.6	113	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	111	0.00
73	T	Isopropylbenzene	50.000	52.872	-5.7	113	0.00
74	T	N-amyl acetate	50.000	49.600	0.8	104	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.393	3.2	109	0.00
76	T	1,2,3-Trichloropropane	50.000	49.498	1.0	109	0.00
77	T	Bromobenzene	50.000	51.092	-2.2	113	0.00
78	T	n-propylbenzene	50.000	52.863	-5.7	113	0.00
79	T	2-Chlorotoluene	50.000	51.750	-3.5	112	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.071	-6.1	113	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.188	-0.4	108	0.00
82	T	4-Chlorotoluene	50.000	51.186	-2.4	111	0.00
83	T	tert-Butylbenzene	50.000	53.141	-6.3	114	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.796	-5.6	112	0.00
85	T	sec-Butylbenzene	50.000	53.059	-6.1	113	0.00
86	T	p-Isopropyltoluene	50.000	53.853	-7.7	113	0.00
87	T	1,3-Dichlorobenzene	50.000	51.450	-2.9	114	0.00
88	T	1,4-Dichlorobenzene	50.000	50.410	-0.8	111	0.00
89	T	n-Butylbenzene	50.000	53.515	-7.0	113	0.00
90	T	Hexachloroethane	50.000	50.349	-0.7	113	0.00
91	T	1,2-Dichlorobenzene	50.000	51.280	-2.6	114	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.978	4.0	108	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.551	-9.1	114	0.00
94	T	Hexachlorobutadiene	50.000	52.955	-5.9	116	0.00
95	T	Naphthalene	50.000	55.186	-10.4	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021731.D
Acq On : 01 Apr 2025 10:13
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: Apr 02 03:21:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 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	53.436	-6.9	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

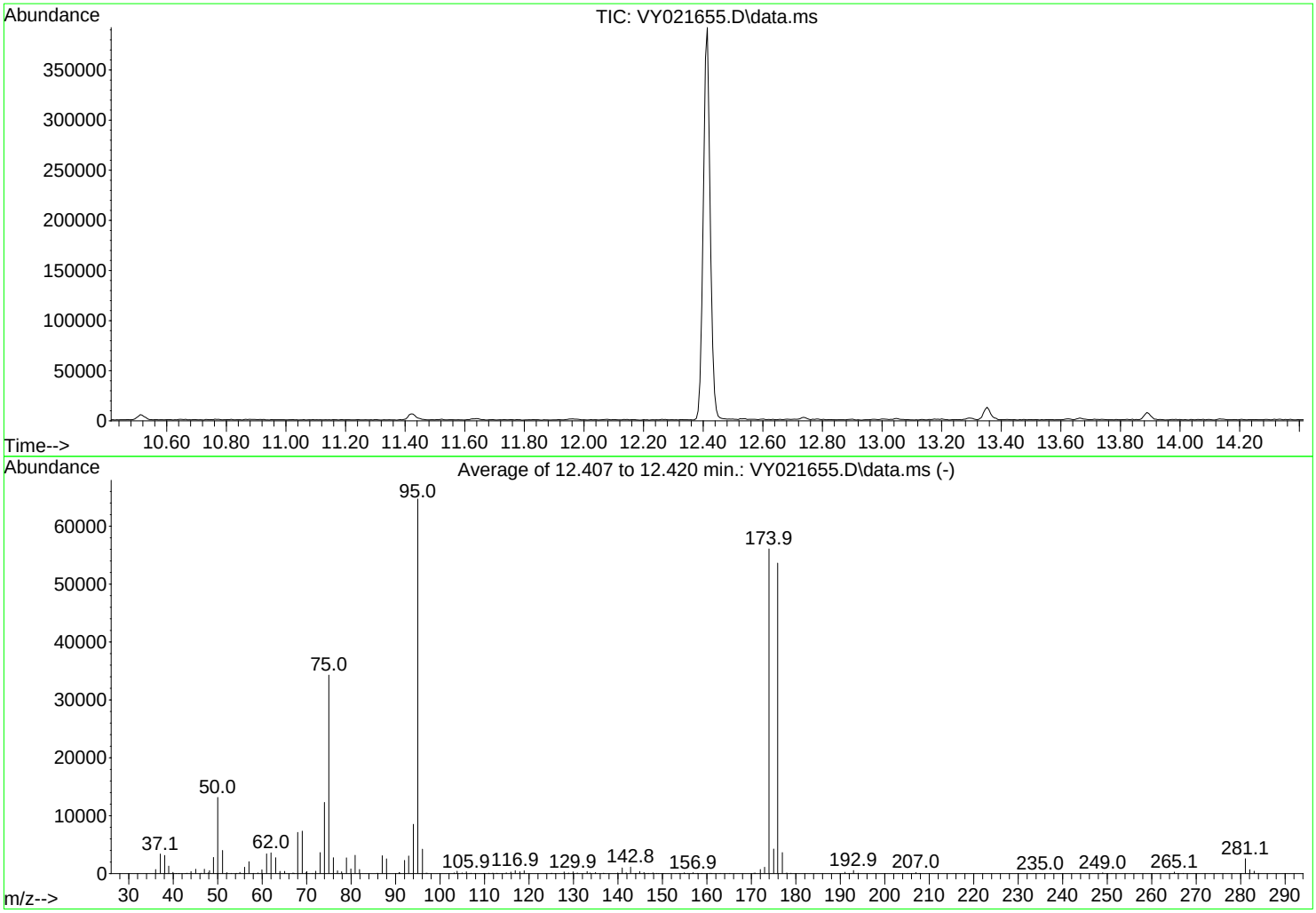
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
Data File : VY021655.D
Acq On : 27 Mar 2025 09:23
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\82Y032725S.M
Title : SW846 8260
Last Update : Fri Mar 28 02:30:29 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1744

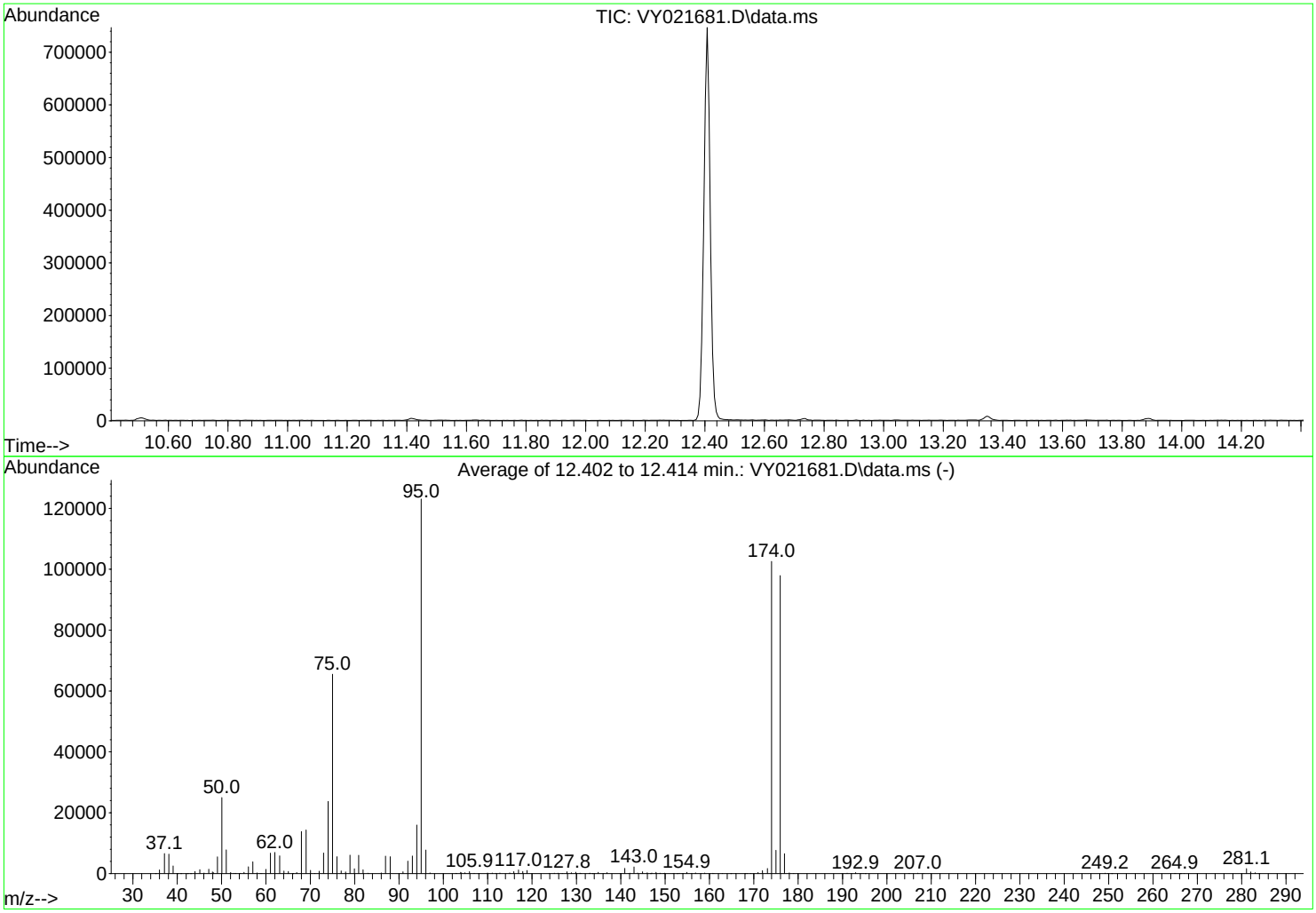
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	13171	PASS
75	95	30	60	53.0	34296	PASS
95	95	100	100	100.0	64701	PASS
96	95	5	9	6.5	4216	PASS
173	174	0.00	2	2.0	1112	PASS
174	95	50	100	86.7	56080	PASS
175	174	5	9	7.6	4256	PASS
176	174	95	101	95.6	53624	PASS
177	176	5	9	6.8	3635	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021681.D
Acq On : 28 Mar 2025 10:11
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\82Y032725S.M
Title : SW846 8260
Last Update : Fri Mar 28 02:30:29 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

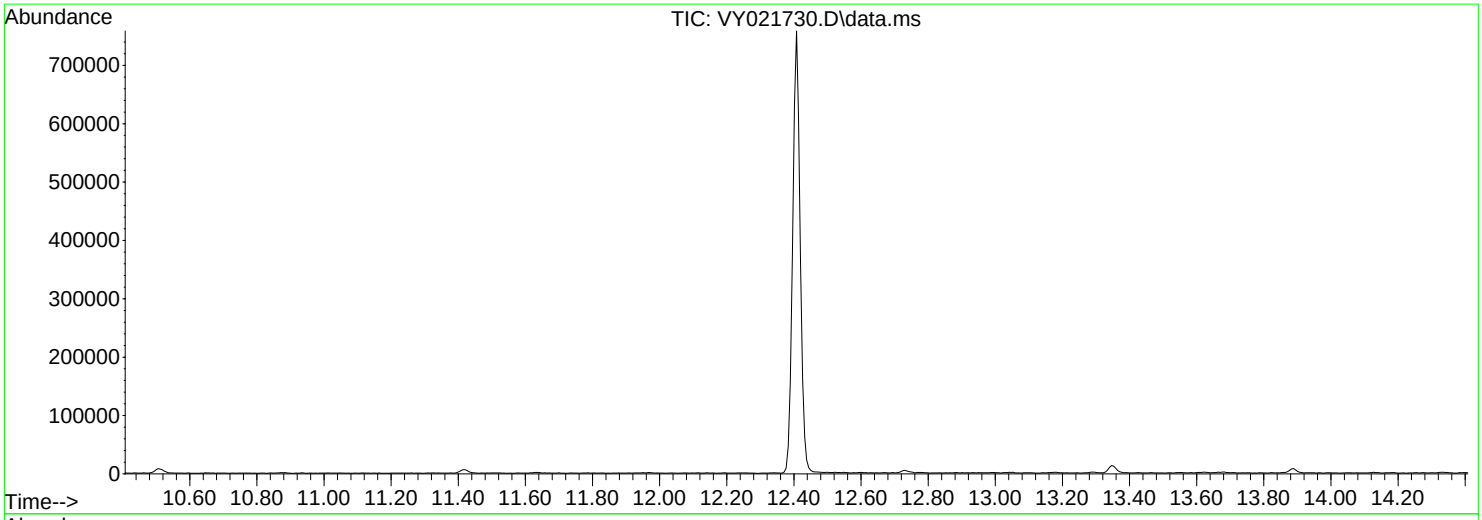
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	24984	PASS
75	95	30	60	53.2	65507	PASS
95	95	100	100	100.0	123093	PASS
96	95	5	9	6.3	7747	PASS
173	174	0.00	2	1.6	1660	PASS
174	95	50	100	83.3	102576	PASS
175	174	5	9	7.5	7678	PASS
176	174	95	101	95.5	97923	PASS
177	176	5	9	6.7	6544	PASS

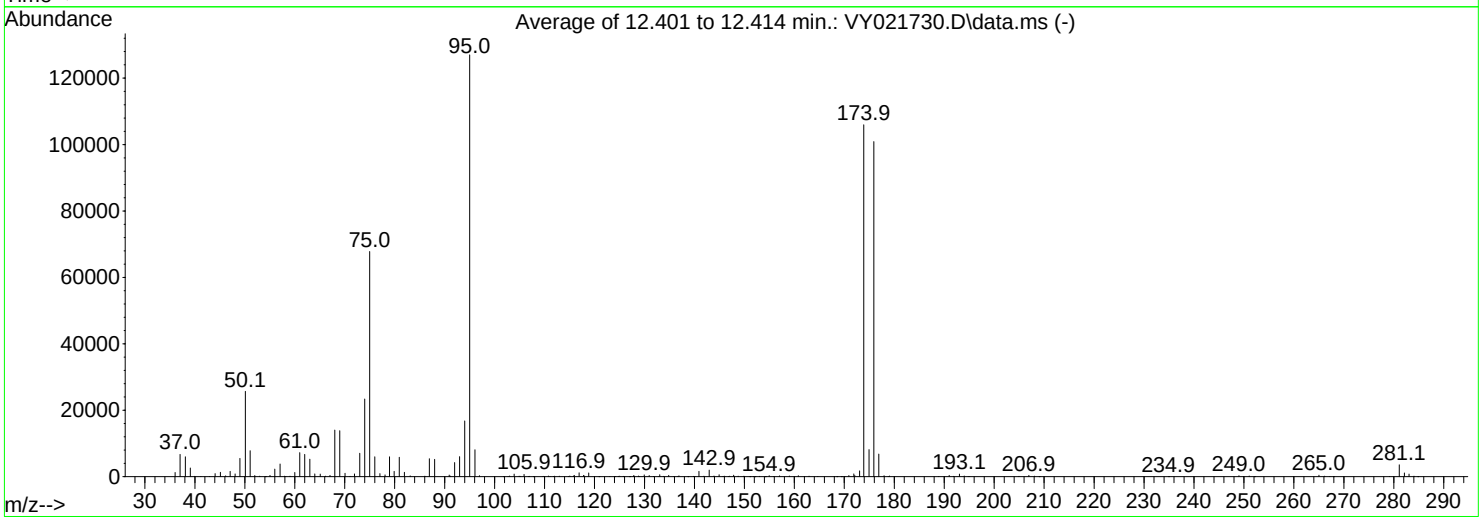
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021730.D
Acq On : 01 Apr 2025 09:35
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260
Last Update : Fri Mar 28 02:30:29 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	20.2	25683	PASS
75	95	30	60	53.4	67821	PASS
95	95	100	100	100.0	127021	PASS
96	95	5	9	6.4	8094	PASS
173	174	0.00	2	1.7	1751	PASS
174	95	50	100	83.4	105947	PASS
175	174	5	9	7.7	8175	PASS
176	174	95	101	95.2	100888	PASS
177	176	5	9	6.7	6803	PASS

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0328SBL01	SDG No.:	Q1664
Lab Sample ID:	VY0328SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021683.D	1		03/28/25 11:21	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0328SBL01	SDG No.:	Q1664
Lab Sample ID:	VY0328SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021683.D	1		03/28/25 11:21	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		63 - 155	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		38 - 136	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	7.707			
540-36-3	1,4-Difluorobenzene	417000	8.616			
3114-55-4	Chlorobenzene-d5	382000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0328SBL01	SDG No.:	Q1664
Lab Sample ID:	VY0328SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021683.D	1		03/28/25 11:21	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021683.D
Acq On : 28 Mar 2025 11:21
Operator : SY/MD
Sample : VY0328SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Quant Time: Mar 28 23:40:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	225314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	417248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	381501	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	144468	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	135549	55.525	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.060%			
35) Dibromofluoromethane	7.634	113	142365	52.599	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.200%			
50) Toluene-d8	10.103	98	514834	49.999	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.000%			
62) 4-Bromofluorobenzene	12.408	95	153338	44.026	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 88.060%			

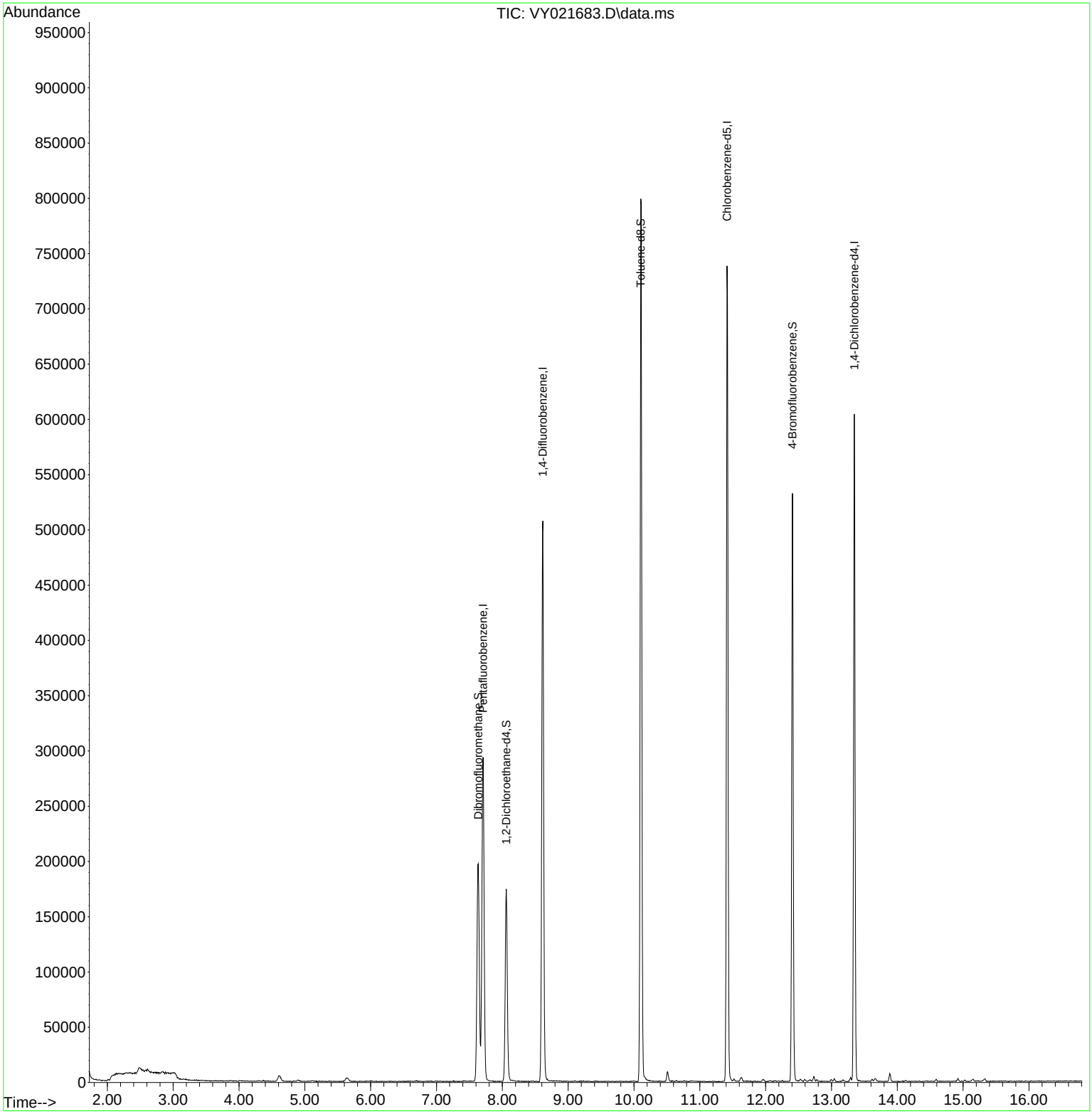
Target Compounds Qvalue

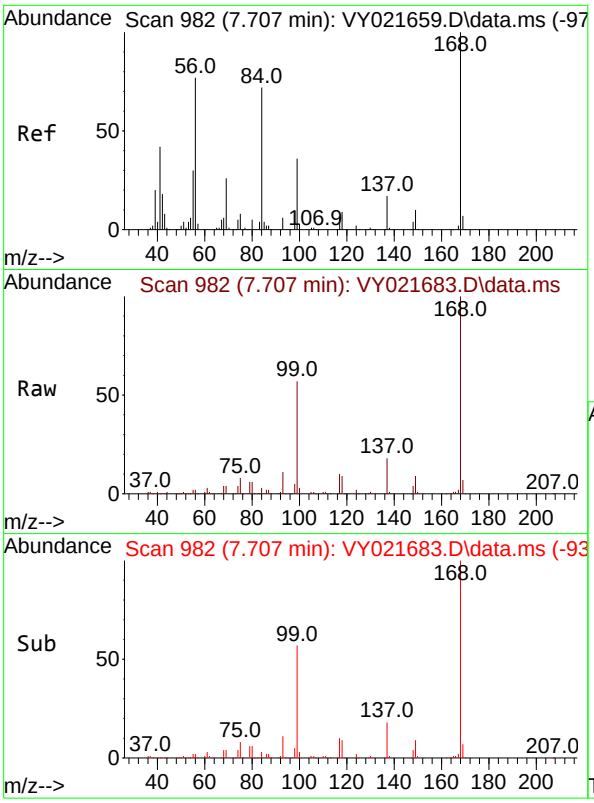
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021683.D
Acq On : 28 Mar 2025 11:21
Operator : SY/MD
Sample : VY0328SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Quant Time: Mar 28 23:40:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



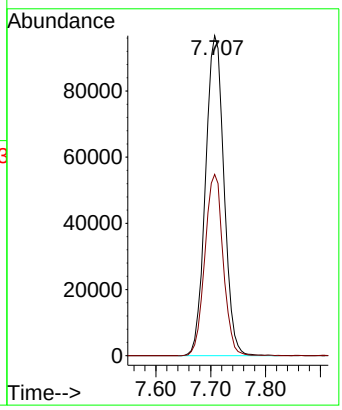


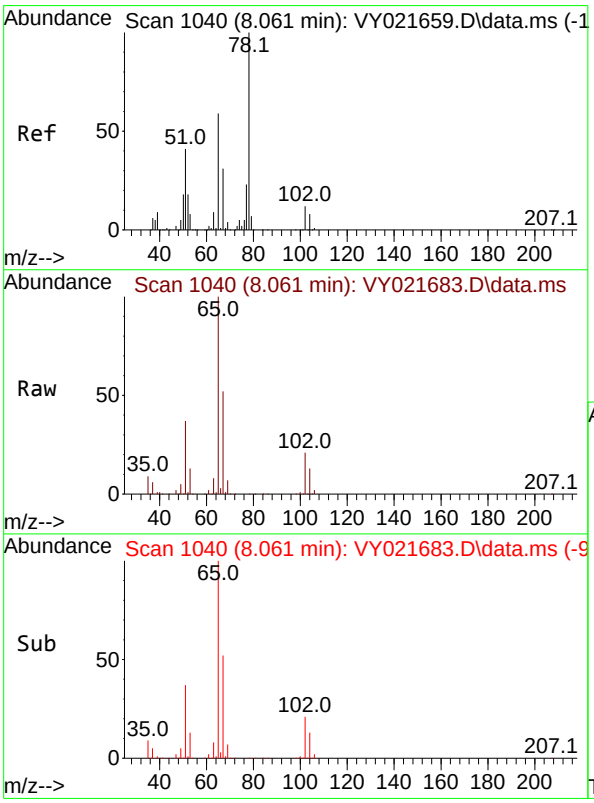
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Tgt Ion:168 Resp: 225314

Ion	Ratio	Lower	Upper
168	100		
99	56.7	46.7	70.1

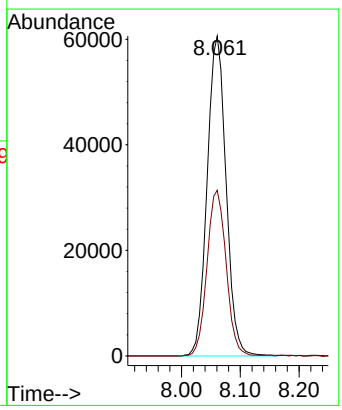


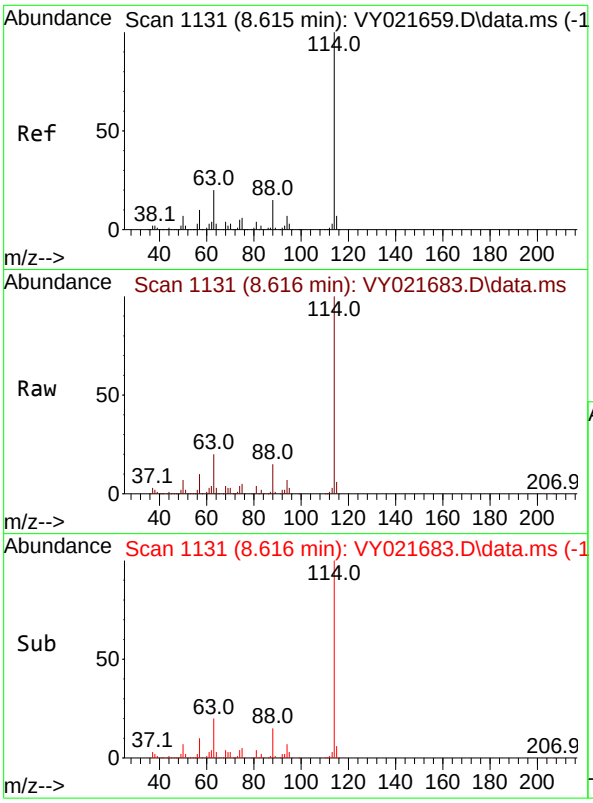


#33
1,2-Dichloroethane-d4
Concen: 55.525 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Tgt Ion: 65 Resp: 135549

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.6



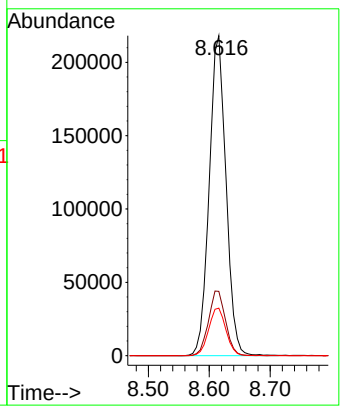


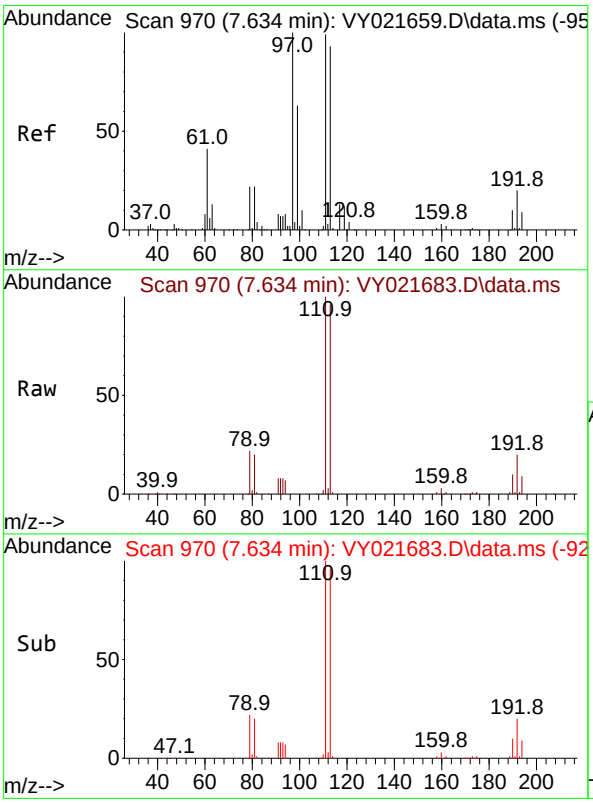
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Tgt Ion:114 Resp: 417248

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.2
88	14.9	0.0	29.8

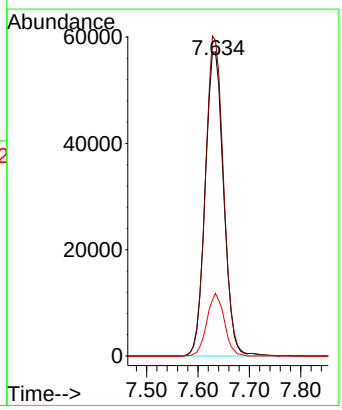


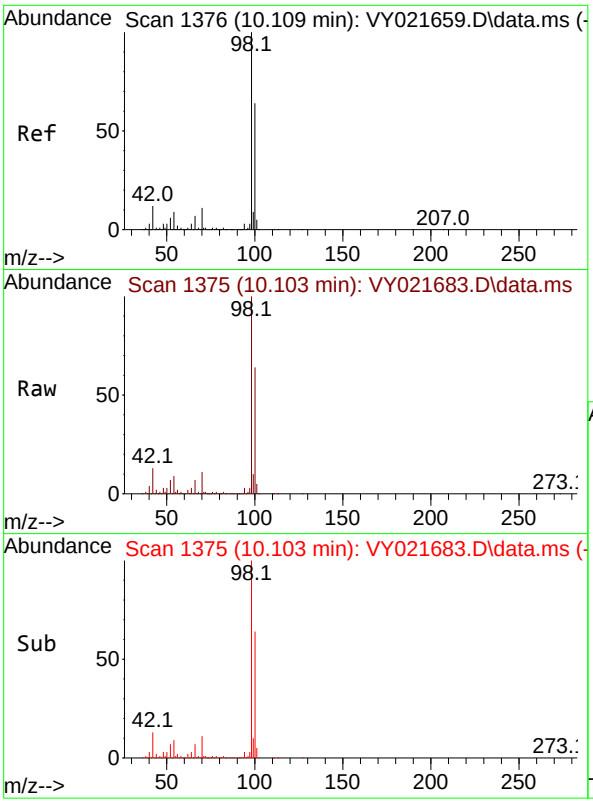


#35
Dibromofluoromethane
Concen: 52.599 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Tgt Ion:113 Resp: 142365

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	19.5	16.2	24.4



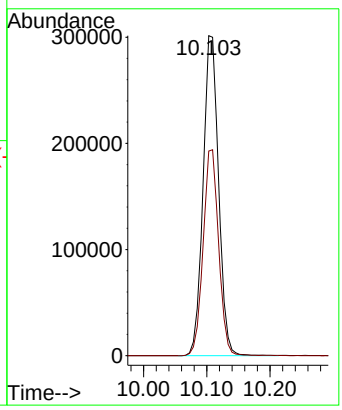


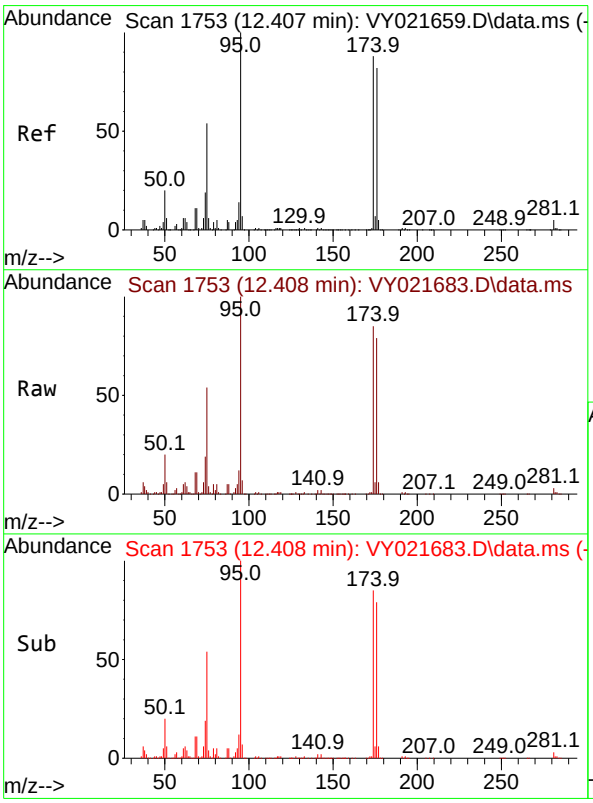
#50
Toluene-d8
Concen: 49.999 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Tgt Ion: 98 Resp: 514834

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.1	78.1

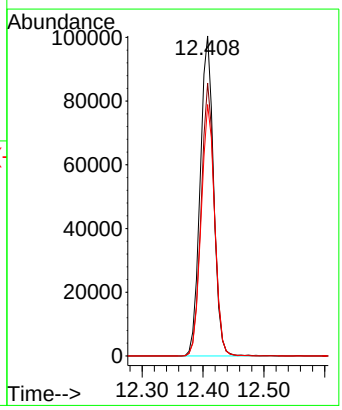


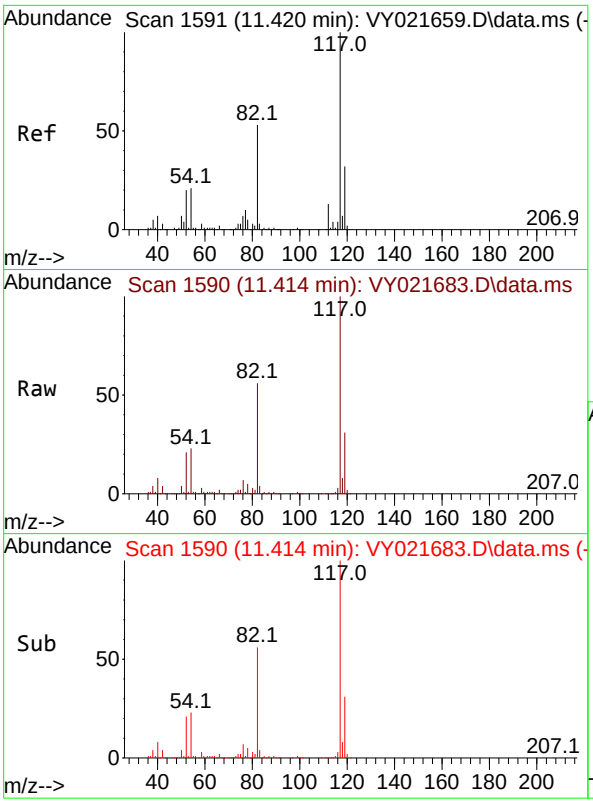


#62
4-Bromofluorobenzene
Concen: 44.026 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Tgt Ion: 95 Resp: 153338

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	170.8
176	79.3	0.0	162.0



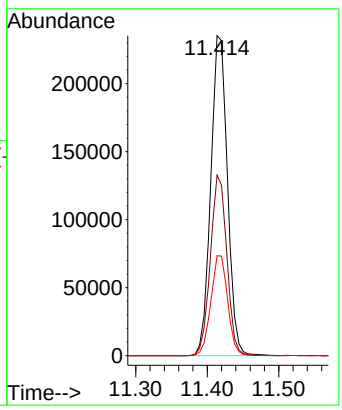


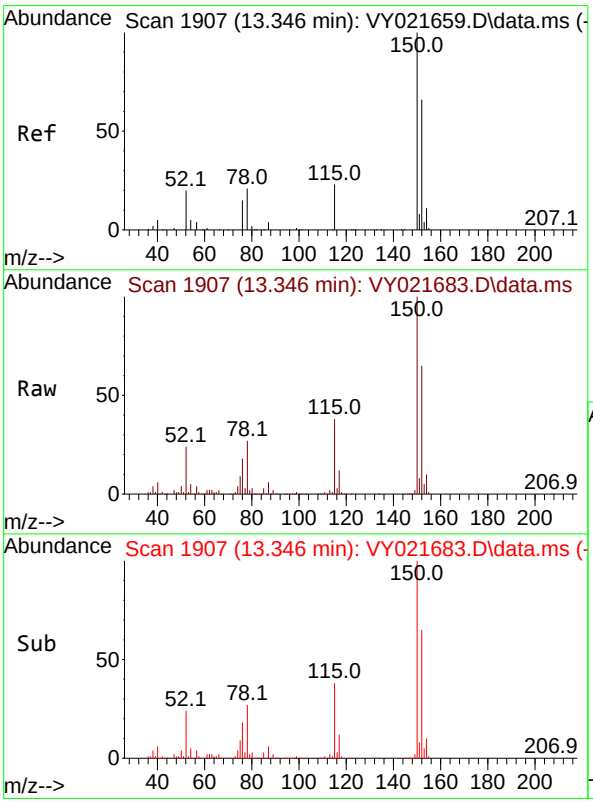
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Tgt Ion:117 Resp: 381501

Ion	Ratio	Lower	Upper
117	100		
82	56.4	42.8	64.2
119	31.2	25.7	38.5

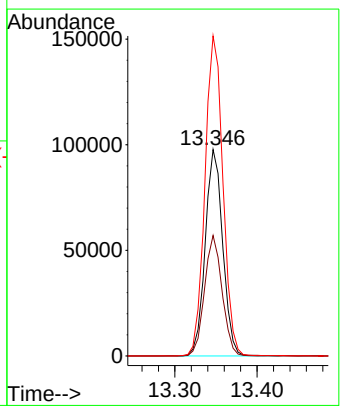




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021683.D
Acq: 28 Mar 2025 11:21

Tgt Ion:152 Resp: 144468

Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.8	86.5
150	159.0	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021683.D
Acq On : 28 Mar 2025 11:21
Operator : SY/MD
Sample : VY0328SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021683.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.634	959	970	976	rBV	196742	489406	35.33%	7.094%
2	7.707	976	982	1000	rVB	293048	679098	49.02%	9.843%
3	8.061	1030	1040	1050	rBV	174082	385813	27.85%	5.592%
4	8.616	1121	1131	1148	rBV	507238	1000224	72.20%	14.497%
5	10.103	1367	1375	1391	rBV	798721	1385260	100.00%	20.078%
6	10.512	1435	1442	1449	rBV2	8777	16566	1.20%	0.240%
7	11.414	1583	1590	1604	rBV	737624	1195430	86.30%	17.327%
8	12.408	1746	1753	1765	rBV	531749	840778	60.69%	12.186%
9	13.346	1900	1907	1917	rVB	603277	906735	65.46%	13.142%

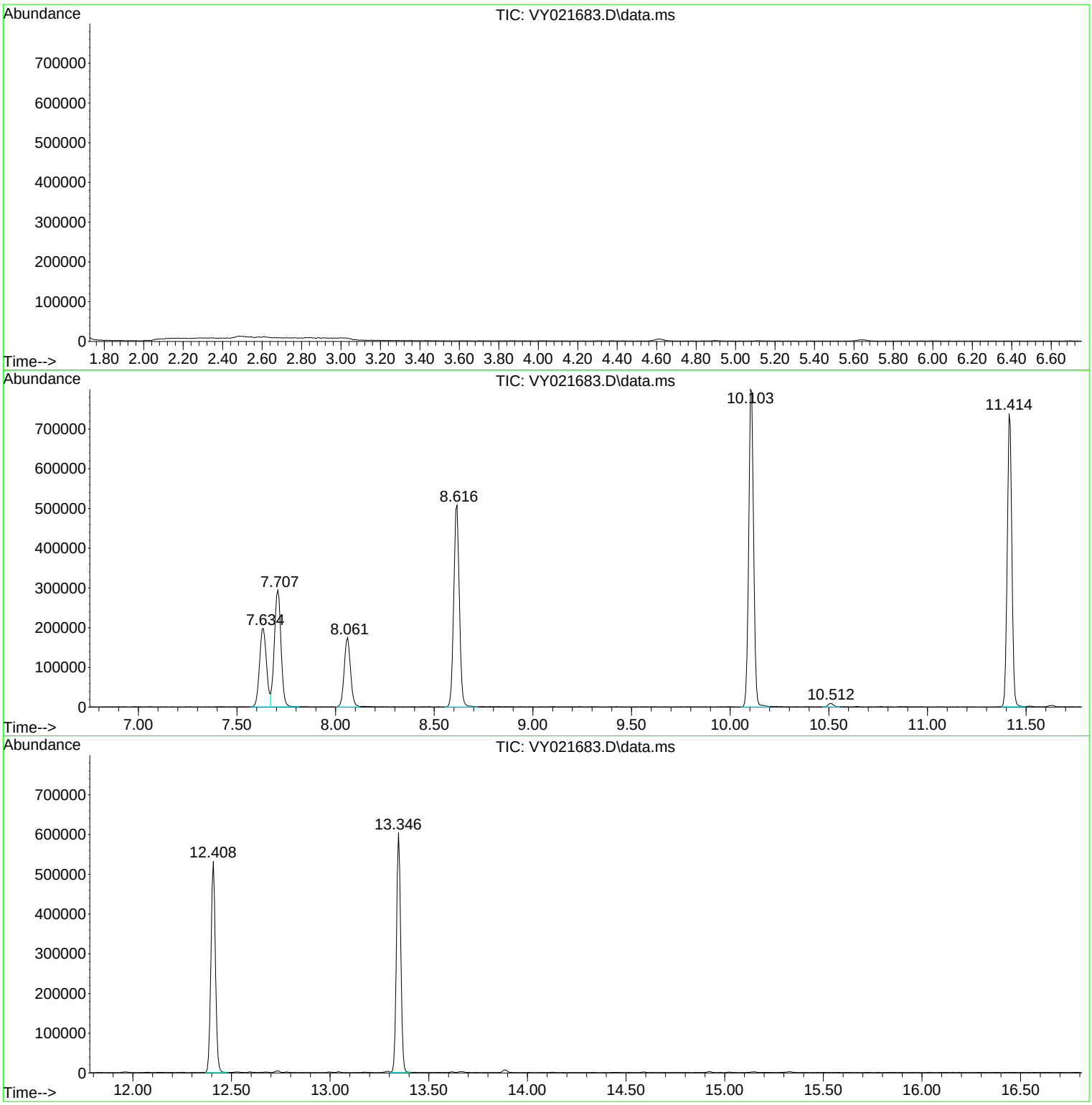
Sum of corrected areas: 6899310

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021683.D
Acq On : 28 Mar 2025 11:21
Operator : SY/MD
Sample : VY0328SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021683.D
Acq On : 28 Mar 2025 11:21
Operator : SY/MD
Sample : VY0328SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021683.D
Acq On : 28 Mar 2025 11:21
Operator : SY/MD
Sample : VY0328SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0401SBL01	SDG No.:	Q1664
Lab Sample ID:	VY0401SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021732.D	1		04/01/25 10:52	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0401SBL01	SDG No.:	Q1664
Lab Sample ID:	VY0401SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021732.D	1		04/01/25 10:52	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		63 - 155	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	49.4		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	281000	7.707			
540-36-3	1,4-Difluorobenzene	520000	8.61			
3114-55-4	Chlorobenzene-d5	478000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	199000	13.347			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0401SBL01	SDG No.:	Q1664
Lab Sample ID:	VY0401SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021732.D	1		04/01/25 10:52	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021732.D
Acq On : 01 Apr 2025 10:52
Operator : SY/MD
Sample : VY0401SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Quant Time: Apr 02 03:21:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

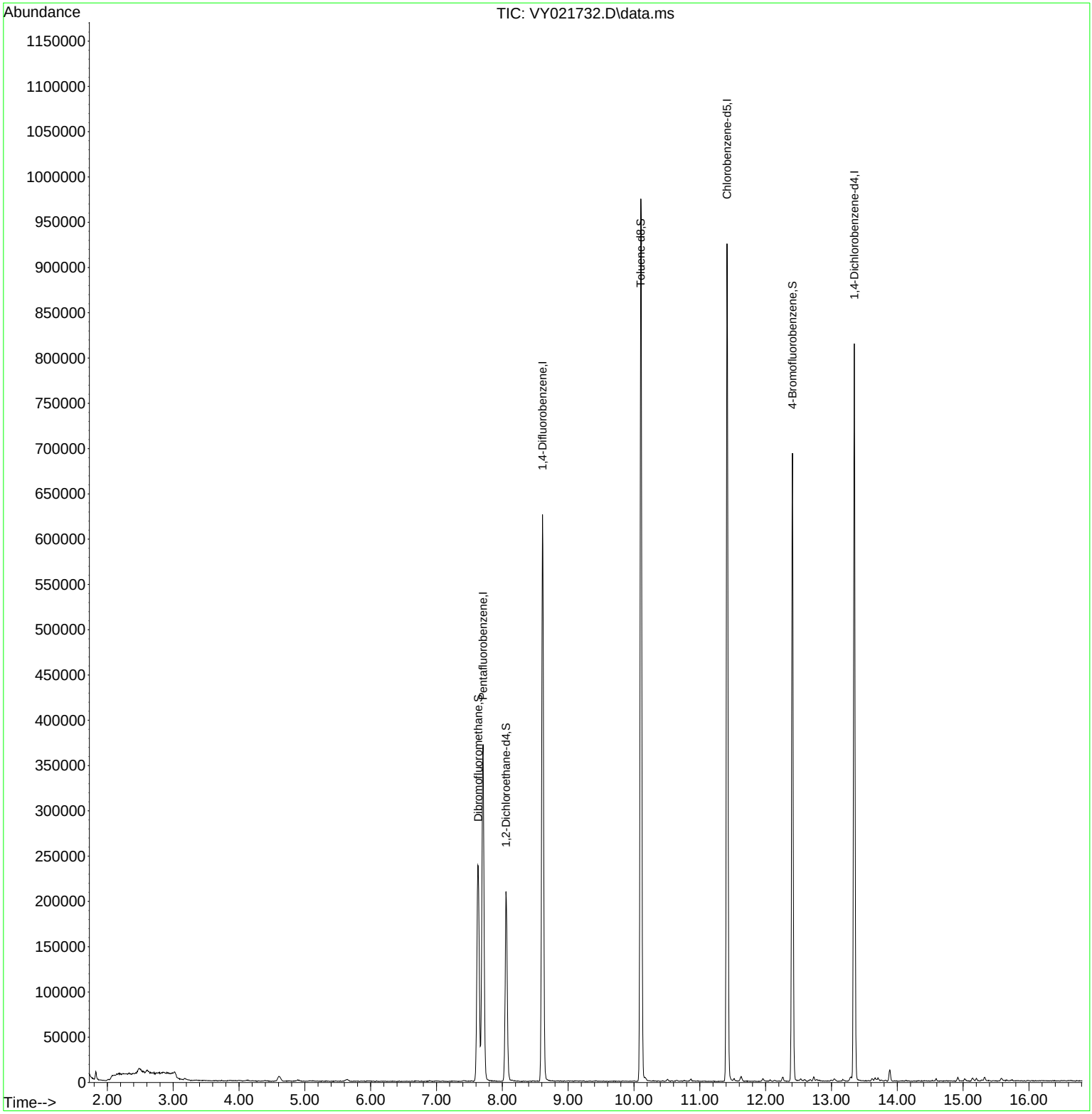
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	281152	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	519589	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	477574	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	199303	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	160703	52.755	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.520%			
35) Dibromofluoromethane	7.634	113	173925	51.602	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.200%			
50) Toluene-d8	10.103	98	633876	49.435	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.880%			
62) 4-Bromofluorobenzene	12.408	95	205202	47.313	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.620%			
Target Compounds						Qvalue

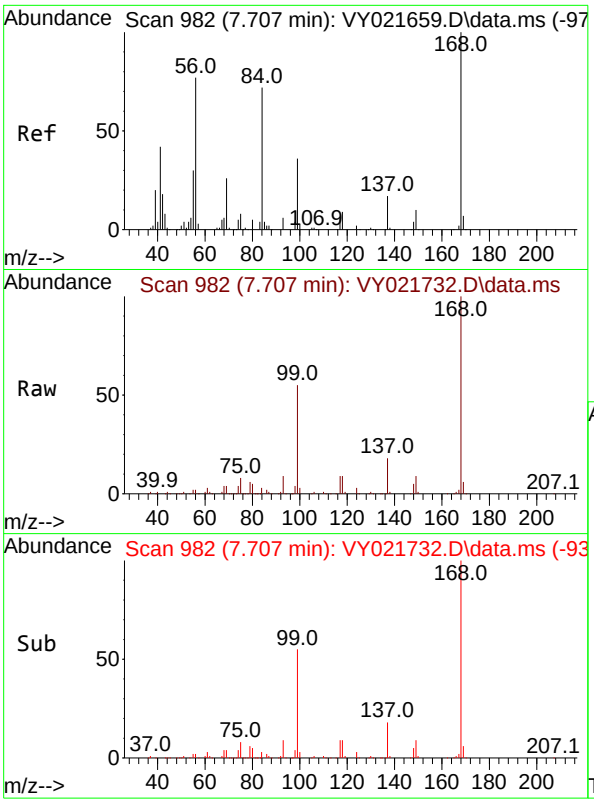
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021732.D
Acq On : 01 Apr 2025 10:52
Operator : SY/MD
Sample : VY0401SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Quant Time: Apr 02 03:21:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



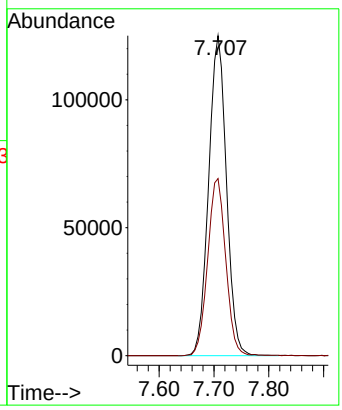


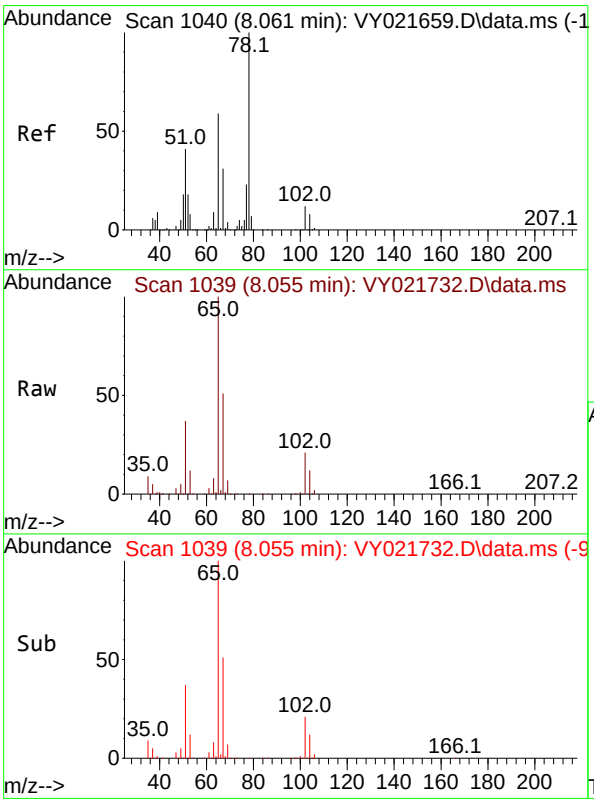
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Tgt Ion:168 Resp: 281152

Ion	Ratio	Lower	Upper
168	100		
99	55.4	46.7	70.1

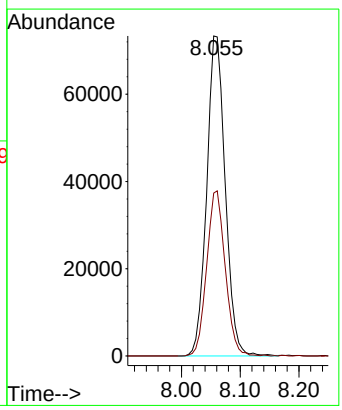


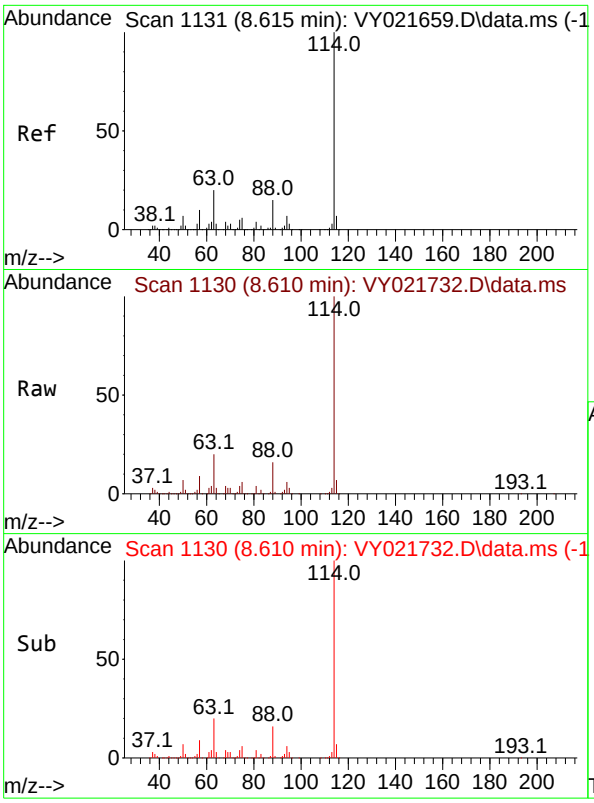


#33
1,2-Dichloroethane-d4
Concen: 52.755 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Tgt Ion: 65 Resp: 160703

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.6



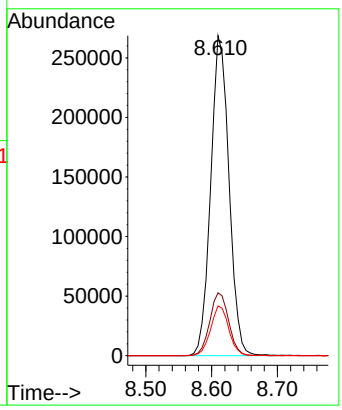


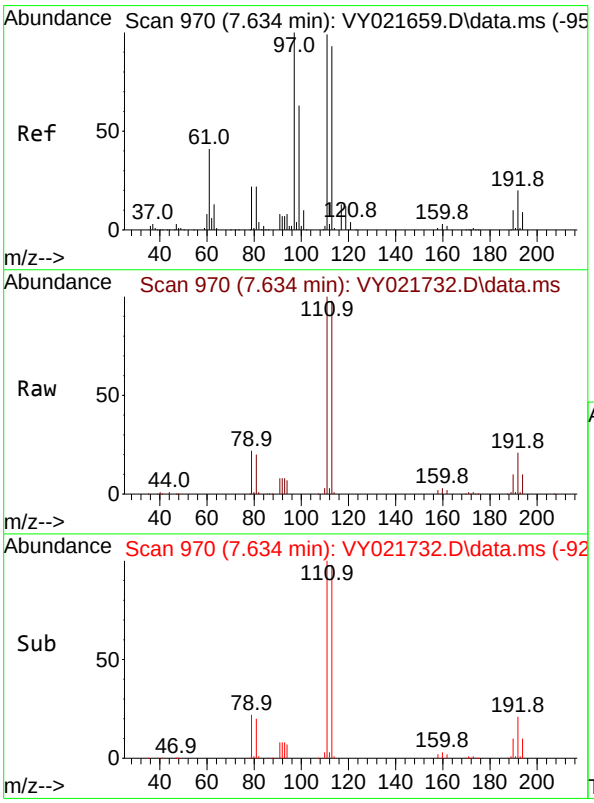
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Tgt Ion:114 Resp: 519589

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.2
88	15.6	0.0	29.8

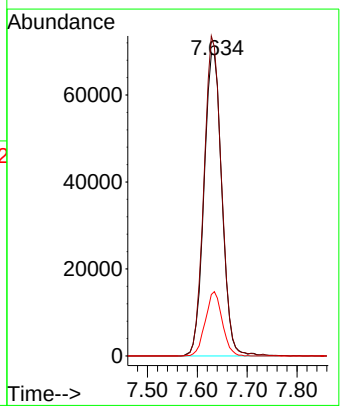


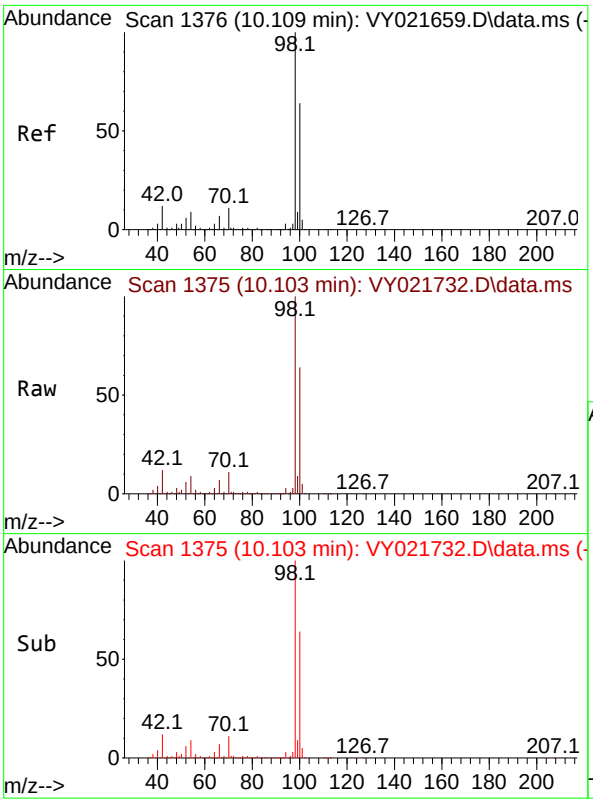


#35
Dibromofluoromethane
Concen: 51.602 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Tgt Ion:113 Resp: 173925

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	20.1	16.2	24.4



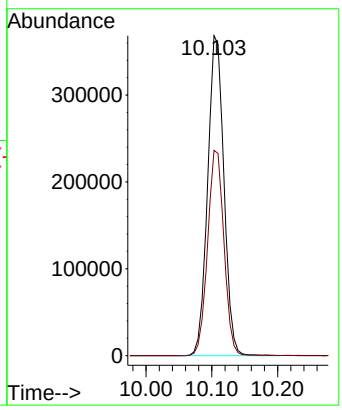


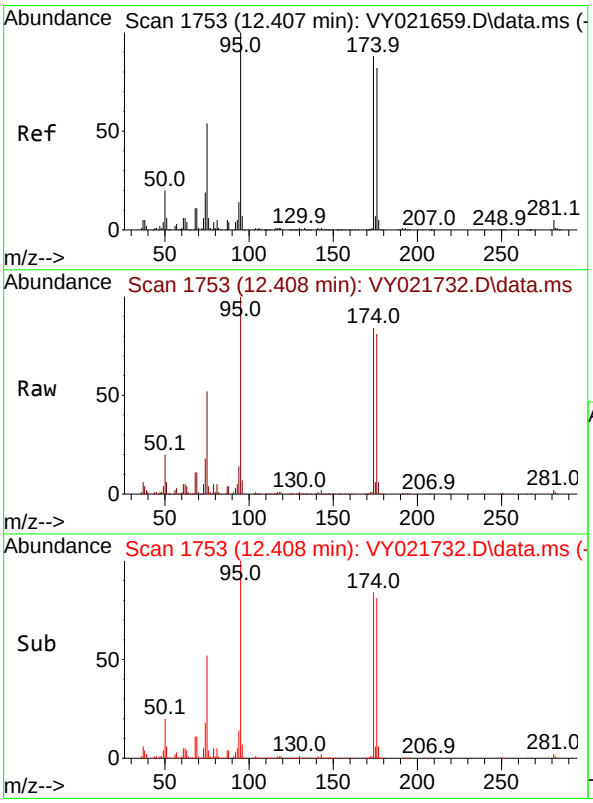
#50
Toluene-d8
Concen: 49.435 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Tgt Ion: 98 Resp: 633876

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1

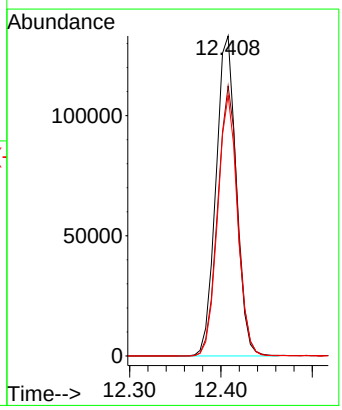


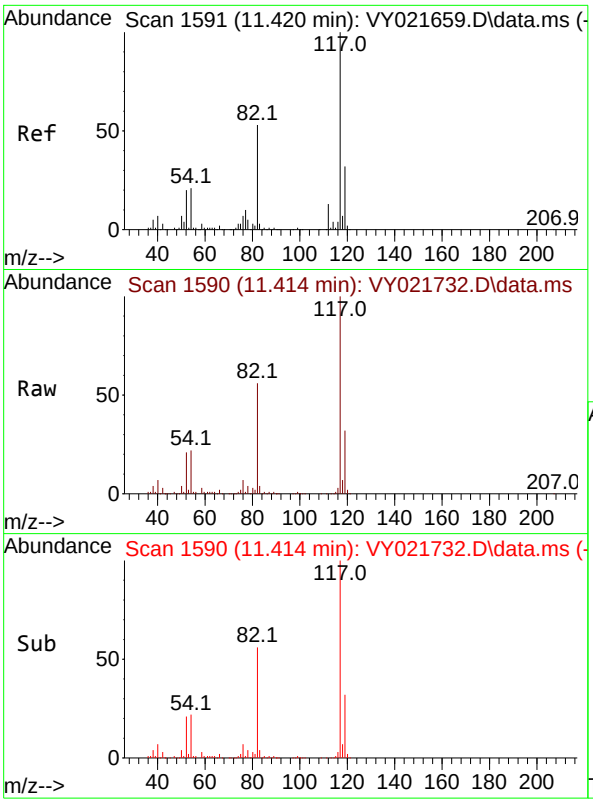


#62
4-Bromofluorobenzene
Concen: 47.313 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Tgt Ion: 95 Resp: 205202

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	170.8
176	79.7	0.0	162.0



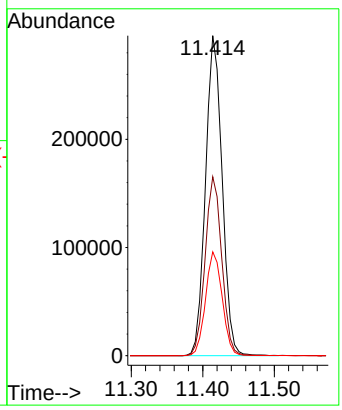


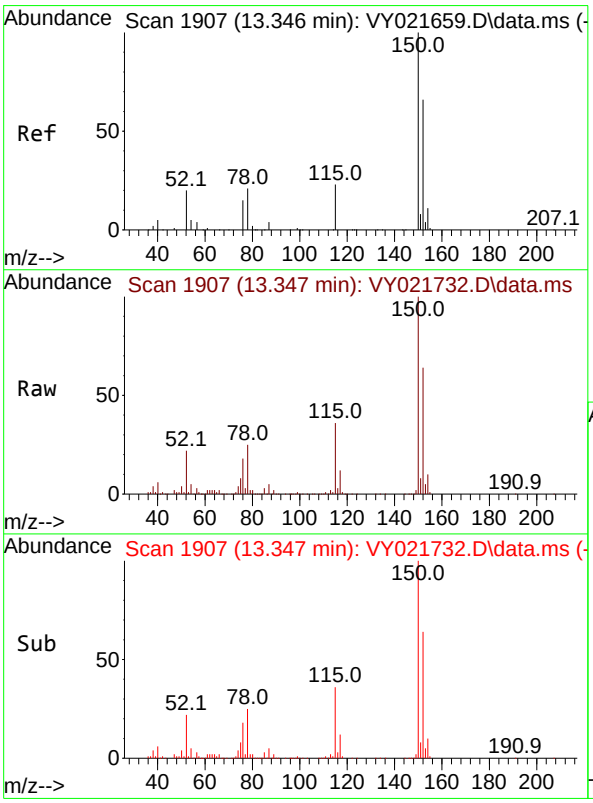
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Tgt Ion:117 Resp: 477574

Ion	Ratio	Lower	Upper
117	100		
82	55.9	42.8	64.2
119	32.4	25.7	38.5

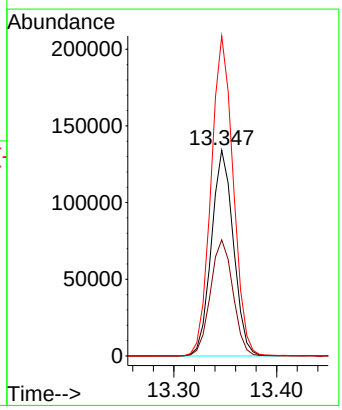




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021732.D
Acq: 01 Apr 2025 10:52

Tgt Ion:152 Resp: 199303

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.8	86.5
150	156.5	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021732.D
Acq On : 01 Apr 2025 10:52
Operator : SY/MD
Sample : VY0401SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021732.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.628	958	969	975	rBV	238906	587089	34.74%	6.788%
2	7.707	975	982	998	rVB	371699	852345	50.44%	9.855%
3	8.055	1030	1039	1049	rBV2	209441	453632	26.84%	5.245%
4	8.610	1122	1130	1141	rBV	625759	1223619	72.41%	14.147%
5	10.103	1366	1375	1384	rBV	974595	1689893	100.00%	19.538%
6	11.414	1582	1590	1604	rBV	924860	1503514	88.97%	17.383%
7	12.408	1744	1753	1762	rBV	693714	1088395	64.41%	12.584%
8	13.347	1900	1907	1919	rVB	813462	1228179	72.68%	14.200%
9	13.883	1989	1995	2003	rBV2	12655	22517	1.33%	0.260%

Sum of corrected areas: 8649183

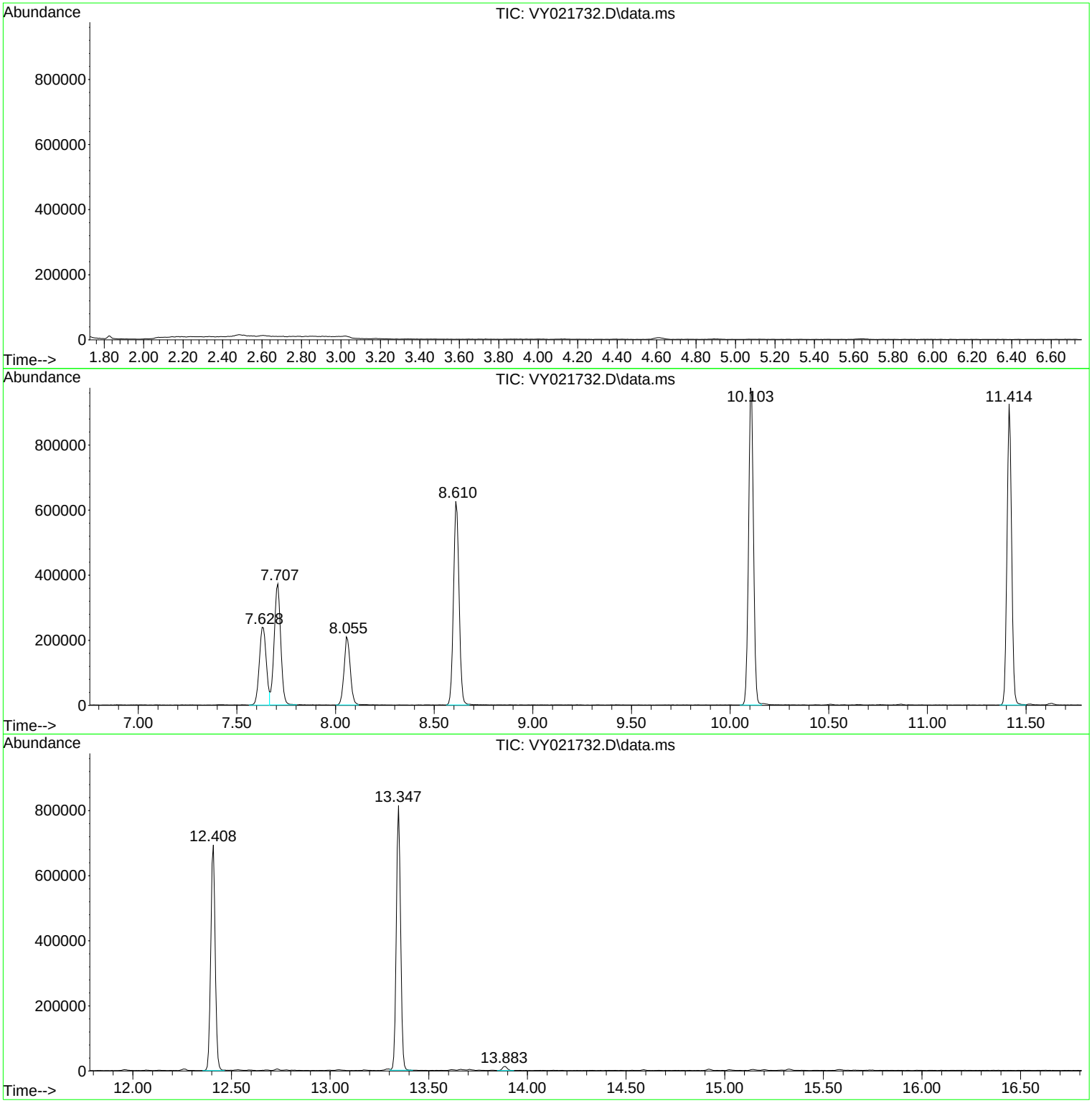
Sample Results: **VY021732.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021732.D
Acq On : 01 Apr 2025 10:52
Operator : SY/MD
Sample : VY0401SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021732.D
Acq On : 01 Apr 2025 10:52
Operator : SY/MD
Sample : VY0401SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY040125\
Data File : VY021732.D
Acq On : 01 Apr 2025 10:52
Operator : SY/MD
Sample : VY0401SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0328SBS01	SDG No.:	Q1664
Lab Sample ID:	VY0328SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021684.D	1		03/28/25 11:55	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.0		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.0		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		1.00	5.00	ug/Kg
67-64-1	Acetone	77.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.5		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.0		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.3		0.79	5.00	ug/Kg
78-93-3	2-Butanone	84.9		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.2		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.4		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.91	5.00	ug/Kg
71-43-2	Benzene	20.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.2		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.1		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	90.4		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0328SBS01	SDG No.:	Q1664
Lab Sample ID:	VY0328SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021684.D	1		03/28/25 11:55	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.3		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.4		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.8		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		63 - 155	109%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		70 - 134	112%	SPK: 50
2037-26-5	Toluene-d8	57.2		74 - 123	114%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		38 - 136	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	213000	7.707			
540-36-3	1,4-Difluorobenzene	334000	8.61			
3114-55-4	Chlorobenzene-d5	294000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	152000	13.347			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0328SBS01	SDG No.:	Q1664
Lab Sample ID:	VY0328SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021684.D	1		03/28/25 11:55	VY032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021684.D
Acq On : 28 Mar 2025 11:55
Operator : SY/MD
Sample : VY0328SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 23:40:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	213072	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	334394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	294300	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	151928	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	125374	54.308	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.620%			
35) Dibromofluoromethane	7.634	113	121099	55.828	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 111.660%			
50) Toluene-d8	10.103	98	472315	57.236	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 114.480%			
62) 4-Bromofluorobenzene	12.408	95	153736	55.078	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 110.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	43032	19.485	ug/l	98
3) Chloromethane	2.068	50	63391	20.413	ug/l	99
4) Vinyl Chloride	2.202	62	67876	19.327	ug/l	97
5) Bromomethane	2.592	94	50038	20.890	ug/l	99
6) Chloroethane	2.733	64	45901	19.974	ug/l	100
7) Trichlorofluoromethane	3.056	101	89969	19.999	ug/l	96
8) Diethyl Ether	3.452	74	22397	18.307	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	47667	20.089	ug/l	96
10) Methyl Iodide	4.001	142	45737	17.571	ug/l	98
11) Tert butyl alcohol	4.848	59	12735	84.930	ug/l	96
12) 1,1-Dichloroethene	3.787	96	43551	19.487	ug/l	99
13) Acrolein	3.653	56	22370	81.703	ug/l	98
14) Allyl chloride	4.379	41	67461	18.932	ug/l	99
15) Acrylonitrile	5.055	53	46954	91.918	ug/l	98
16) Acetone	3.867	43	36547	77.352	ug/l	99
17) Carbon Disulfide	4.104	76	145819	19.809	ug/l	99
18) Methyl Acetate	4.379	43	22634	19.329	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	103134	18.535	ug/l	97
20) Methylene Chloride	4.610	84	50561	19.511	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	49140	19.970	ug/l	97
22) Diisopropyl ether	6.013	45	151352	20.248	ug/l	99
23) Vinyl Acetate	5.958	43	398524	91.134	ug/l	100
24) 1,1-Dichloroethane	5.915	63	89724	20.074	ug/l	99
25) 2-Butanone	6.897	43	57274	84.871	ug/l	98
26) 2,2-Dichloropropane	6.884	77	78308	19.696	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	53242	19.240	ug/l	98
28) Bromochloromethane	7.238	49	38586	20.470	ug/l	100
29) Tetrahydrofuran	7.262	42	39489	90.922	ug/l	98
30) Chloroform	7.421	83	94642	20.358	ug/l	98
31) Cyclohexane	7.701	56	78680	19.310	ug/l #	91
32) 1,1,1-Trichloroethane	7.616	97	84505	20.112	ug/l	99
36) 1,1-Dichloropropene	7.829	75	67509	20.433	ug/l	99
37) Ethyl Acetate	6.982	43	27529	17.655	ug/l	99
38) Carbon Tetrachloride	7.811	117	76253	20.151	ug/l	98
39) Methylcyclohexane	9.103	83	77093	19.532	ug/l	95
40) Benzene	8.079	78	203139	20.530	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021684.D
Acq On : 28 Mar 2025 11:55
Operator : SY/MD
Sample : VY0328SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 23:40:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.238	41	16737m	20.212 ug/l		
42) 1,2-Dichloroethane	8.159	62	54350	19.484 ug/l		99
43) Isopropyl Acetate	8.195	43	53595	18.137 ug/l		99
44) Trichloroethene	8.860	130	50815	20.156 ug/l		99
45) 1,2-Dichloropropane	9.140	63	46938	20.041 ug/l		100
46) Dibromomethane	9.231	93	26320	19.499 ug/l		97
47) Bromodichloromethane	9.420	83	70471	20.148 ug/l		95
48) Methyl methacrylate	9.219	41	25166	18.556 ug/l		98
49) 1,4-Dioxane	9.231	88	5381	372.132 ug/l		97
51) 4-Methyl-2-Pentanone	9.994	43	138995	90.388 ug/l		100
52) Toluene	10.170	92	126444	20.482 ug/l		100
53) t-1,3-Dichloropropene	10.390	75	59685	19.212 ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	70767	19.309 ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	34187	19.681 ug/l		96
56) Ethyl methacrylate	10.439	69	39633	17.869 ug/l		98
57) 1,3-Dichloropropane	10.719	76	58366	19.456 ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	101258	93.583 ug/l		99
59) 2-Hexanone	10.762	43	91431	89.278 ug/l		97
60) Dibromochloromethane	10.908	129	46836	19.748 ug/l		97
61) 1,2-Dibromoethane	11.018	107	31093	19.082 ug/l		97
64) Tetrachloroethene	10.646	164	56113	20.935 ug/l		97
65) Chlorobenzene	11.438	112	134239	19.898 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	46751	19.532 ug/l		97
67) Ethyl Benzene	11.518	91	228741	19.773 ug/l		99
68) m/p-Xylenes	11.627	106	177031	39.963 ug/l		99
69) o-Xylene	11.957	106	81518	19.935 ug/l		98
70) Styrene	11.969	104	135444	19.866 ug/l		99
71) Bromoform	12.133	173	26243	19.221 ug/l	#	100
73) Isopropylbenzene	12.255	105	213686	18.937 ug/l		100
74) N-amyl acetate	12.072	43	44777	16.908 ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	37411	18.440 ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	28133m	18.681 ug/l		
77) Bromobenzene	12.530	156	51994	19.191 ug/l		99
78) n-propylbenzene	12.597	91	266802	19.666 ug/l		100
79) 2-Chlorotoluene	12.682	91	153198	19.442 ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	180430	19.564 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	11086	16.962 ug/l		95
82) 4-Chlorotoluene	12.780	91	156677	19.072 ug/l		98
83) tert-Butylbenzene	12.999	119	155707	18.955 ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	181125	19.871 ug/l		98
85) sec-Butylbenzene	13.176	105	236854	19.730 ug/l		99
86) p-Isopropyltoluene	13.292	119	193258	19.478 ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	103953	19.474 ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	100969	19.145 ug/l		97
89) n-Butylbenzene	13.621	91	177566	19.351 ug/l		99
90) Hexachloroethane	13.877	117	41780	19.216 ug/l		100
91) 1,2-Dichlorobenzene	13.658	146	88975	19.148 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5485	17.443 ug/l		93
93) 1,2,4-Trichlorobenzene	14.919	180	44734	17.752 ug/l		99
94) Hexachlorobutadiene	15.023	225	30223	19.204 ug/l		98
95) Naphthalene	15.145	128	68964	16.511 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	38202	17.778 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021684.D
Acq On : 28 Mar 2025 11:55
Operator : SY/MD
Sample : VY0328SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 23:40:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

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

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

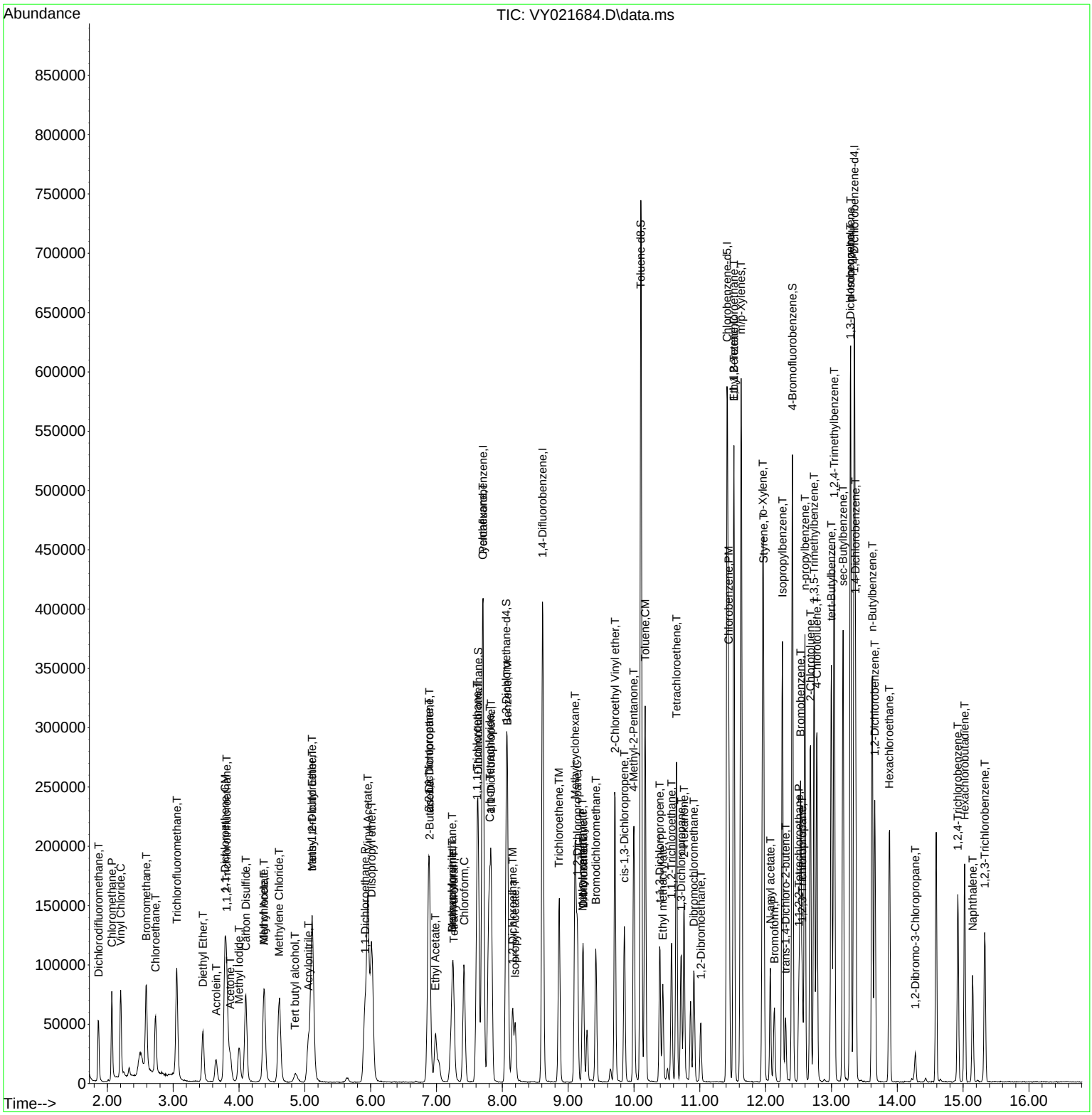
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
Data File : VY021684.D
Acq On : 28 Mar 2025 11:55
Operator : SY/MD
Sample : VY0328SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

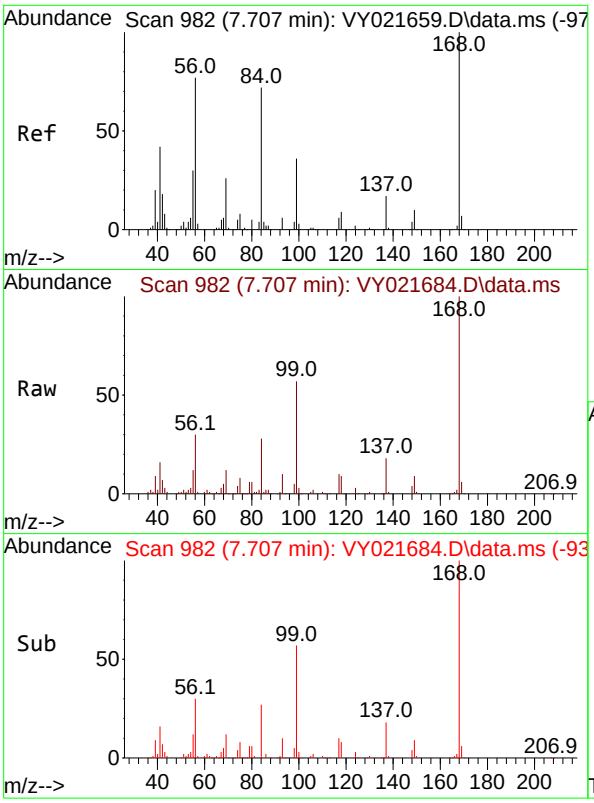
Quant Time: Mar 28 23:40:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

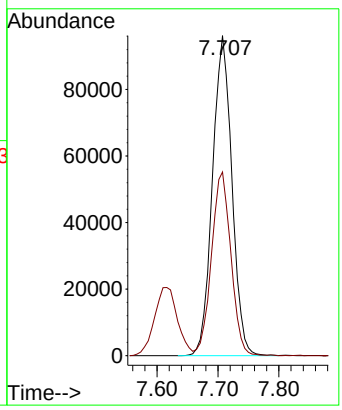




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:168 Resp: 21307

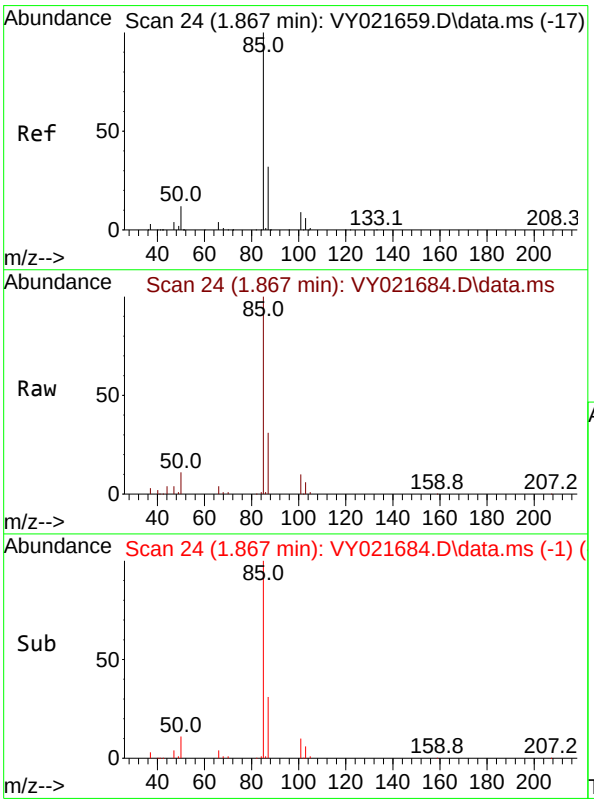
Ion	Ratio	Lower	Upper
168	100		
99	57.4	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

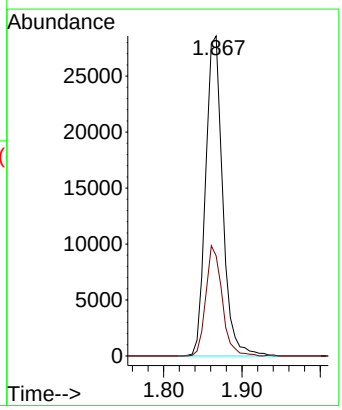
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

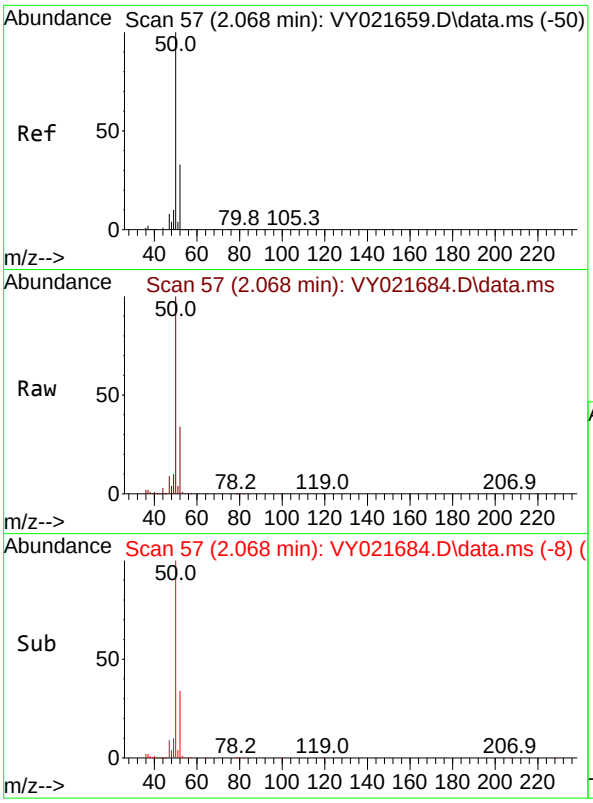


#2
Dichlorodifluoromethane
Concen: 19.485 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 85 Resp: 43032

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.2	48.6

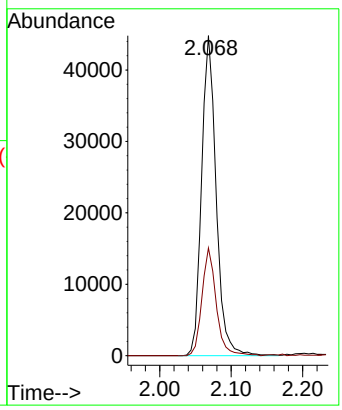




#3
Chloromethane
Concen: 20.413 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 50 Resp: 6339

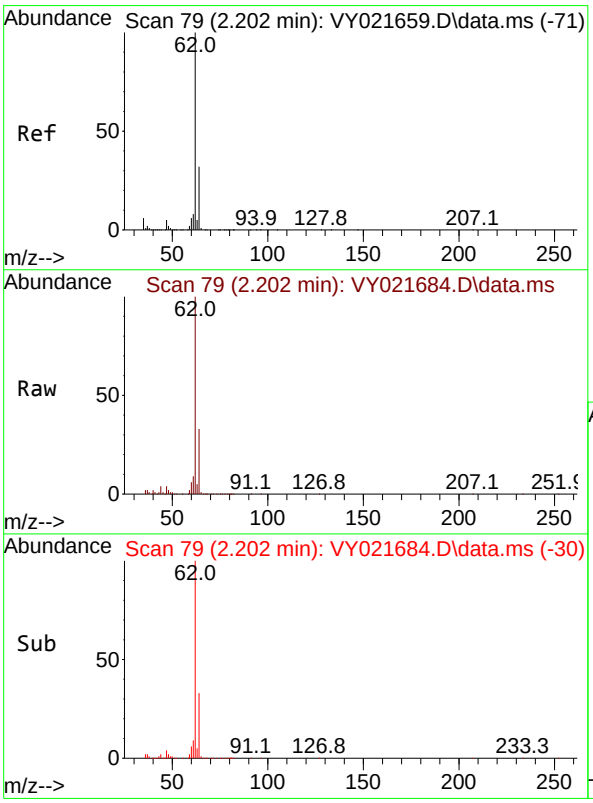
Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

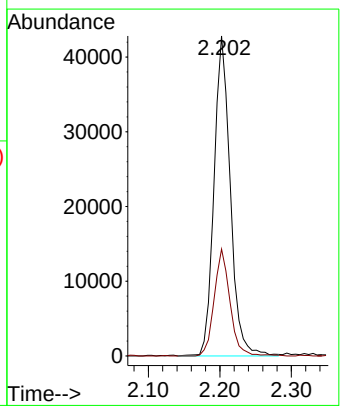
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

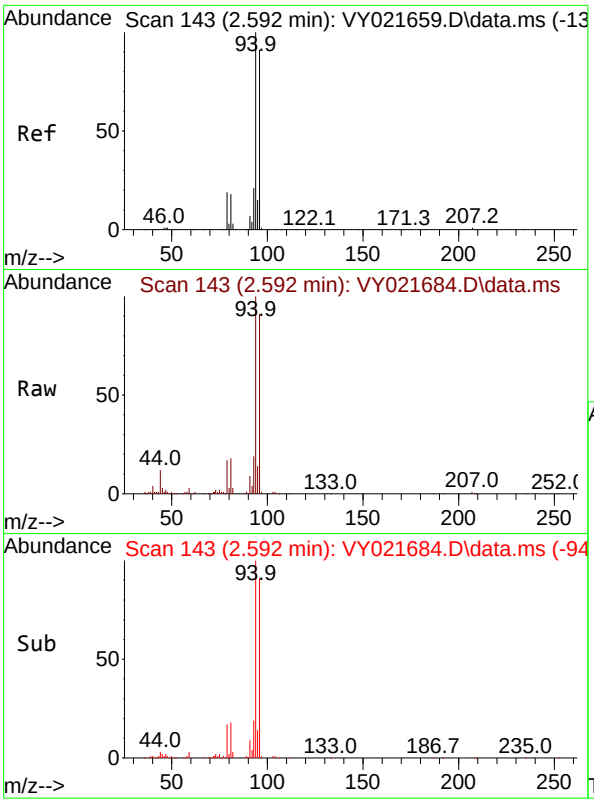


#4
Vinyl Chloride
Concen: 19.327 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 62 Resp: 67876

Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.5	38.3





#5
Bromomethane
Concen: 20.890 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

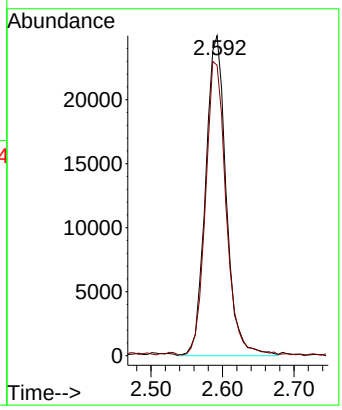
Tgt Ion: 94 Resp: 5003

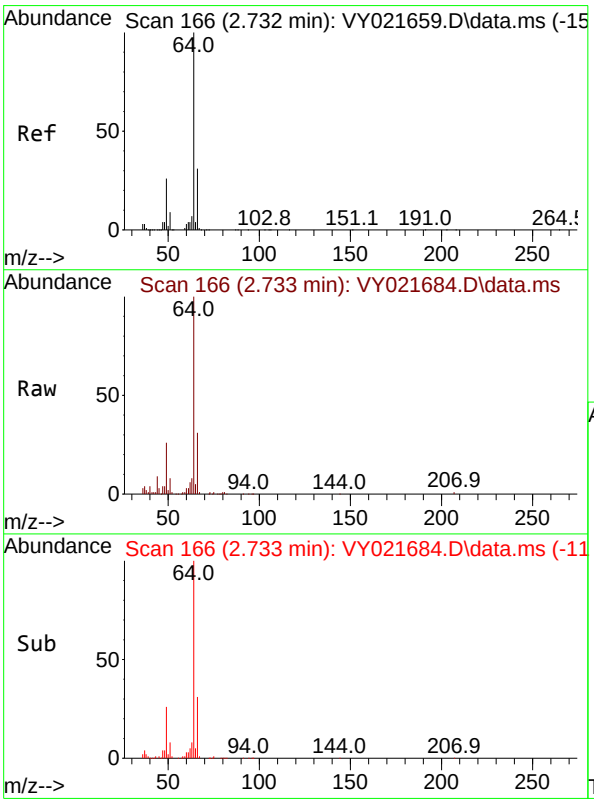
Ion	Ratio	Lower	Upper
94	100		
96	90.5	72.8	109.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

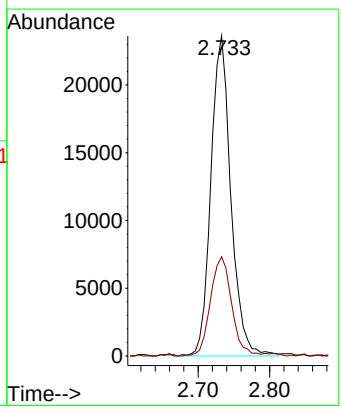


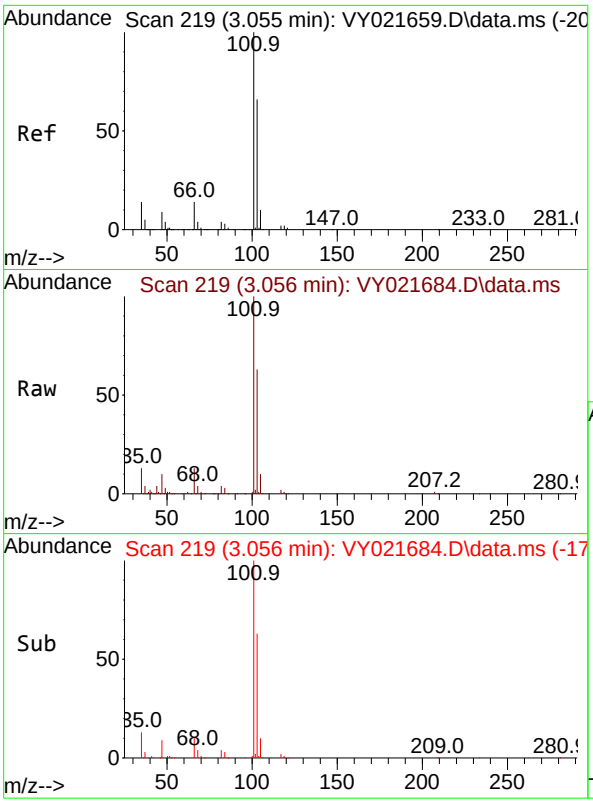


#6
Chloroethane
Concen: 19.974 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 64 Resp: 45901

Ion	Ratio	Lower	Upper
64	100		
66	31.0	24.9	37.3

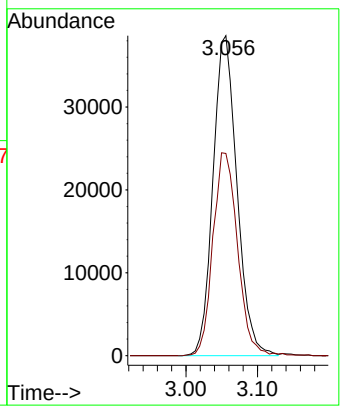




#7
Trichlorofluoromethane
Concen: 19.999 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:101 Resp: 8996

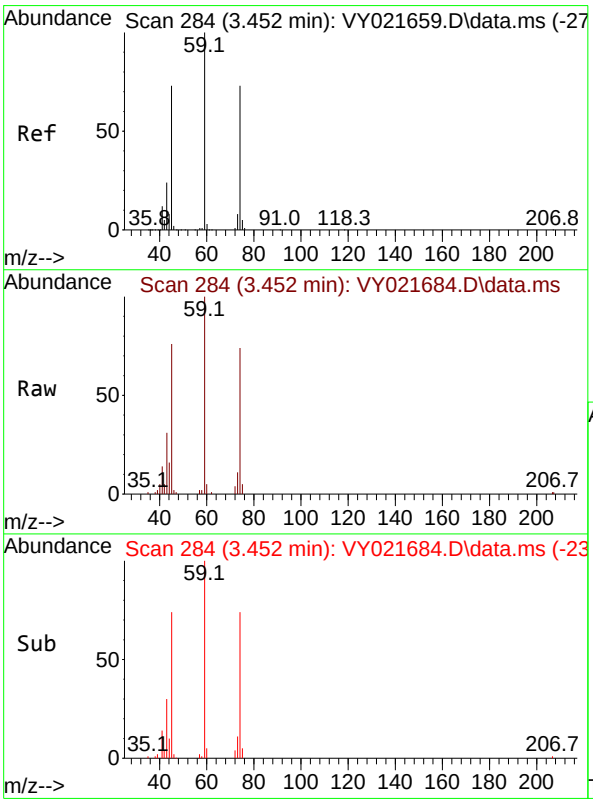
Ion	Ratio	Lower	Upper
101	100		
103	63.2	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

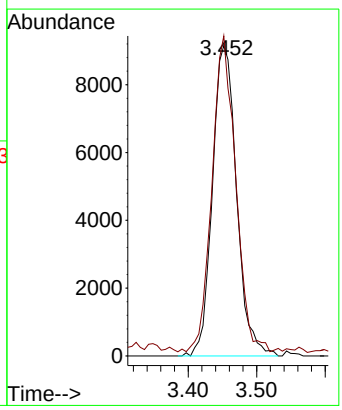
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

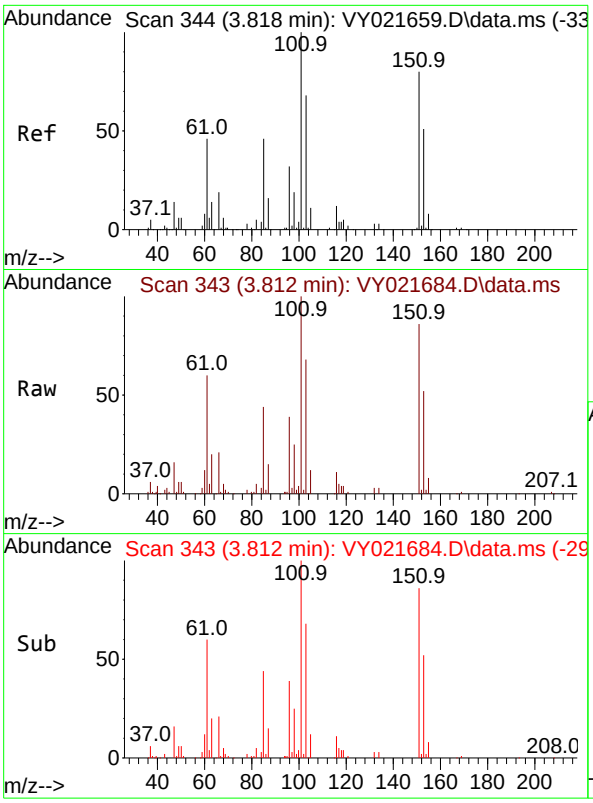


#8
Diethyl Ether
Concen: 18.307 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 74 Resp: 22397

Ion	Ratio	Lower	Upper
74	100		
45	99.6	48.6	145.8

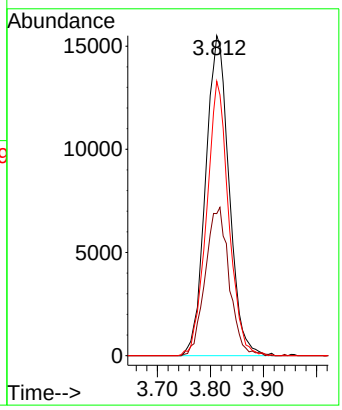




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.089 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:101 Resp: 4766

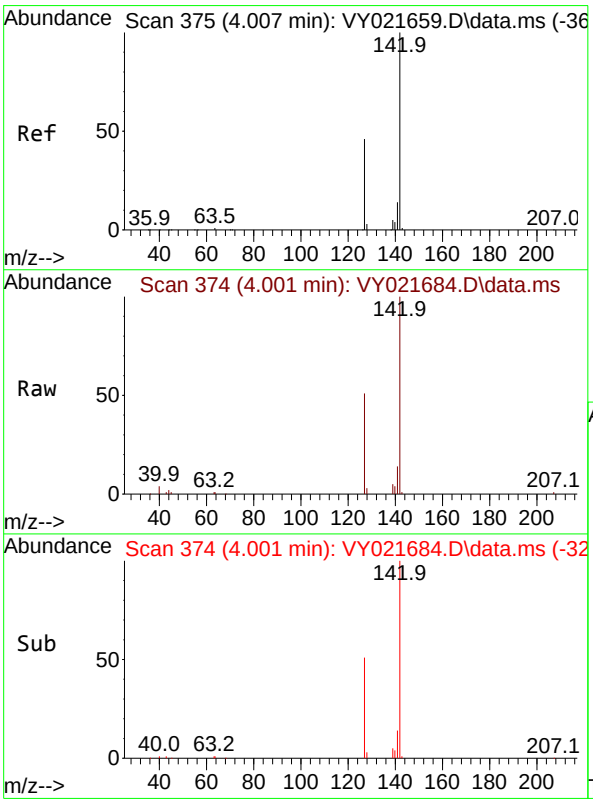
Ion	Ratio	Lower	Upper
101	100		
85	47.2	36.3	54.5
151	80.8	61.3	91.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

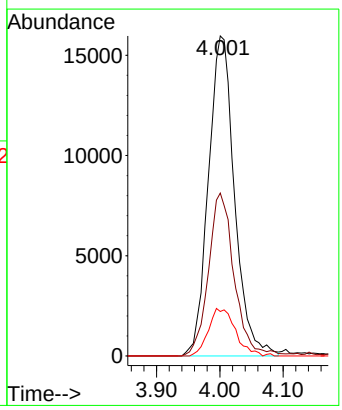
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

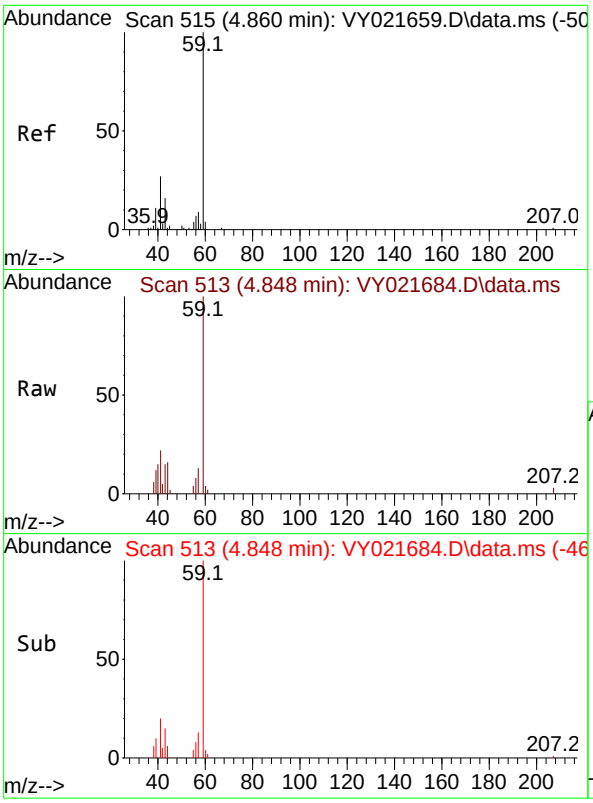


#10
Methyl Iodide
Concen: 17.571 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:142 Resp: 45737

Ion	Ratio	Lower	Upper
142	100		
127	50.1	38.7	58.1
141	15.3	11.5	17.3

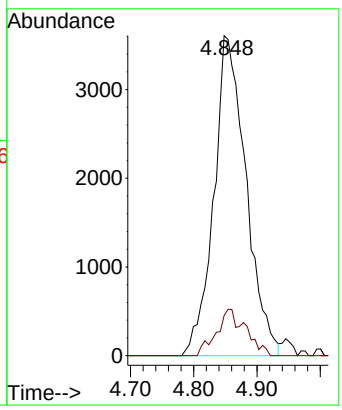




#11
Tert butyl alcohol
Concen: 84.930 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 59 Resp: 1273

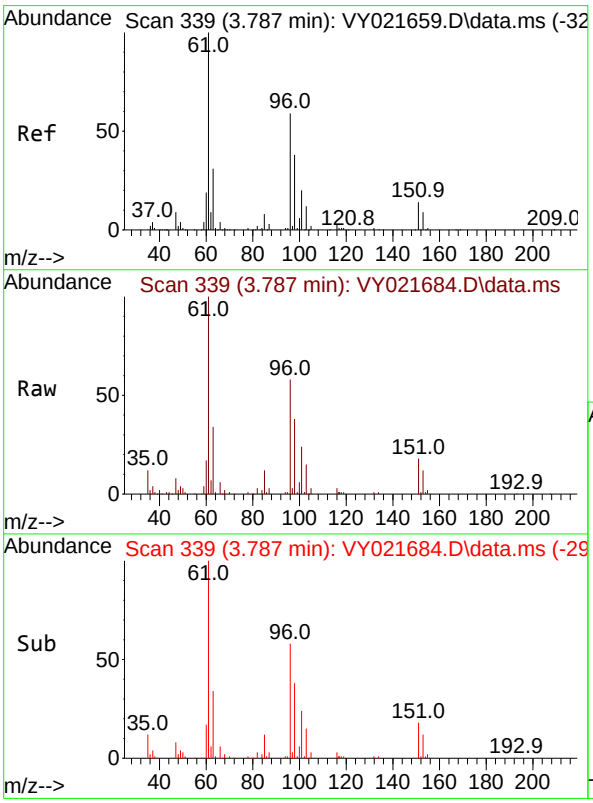
Ion	Ratio	Lower	Upper
59	100		
57	13.2	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

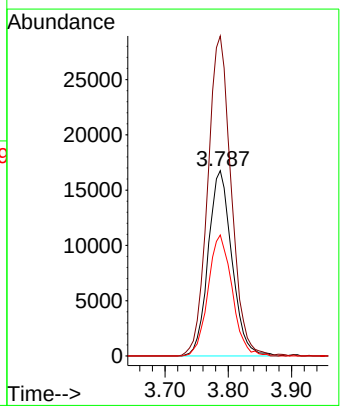
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

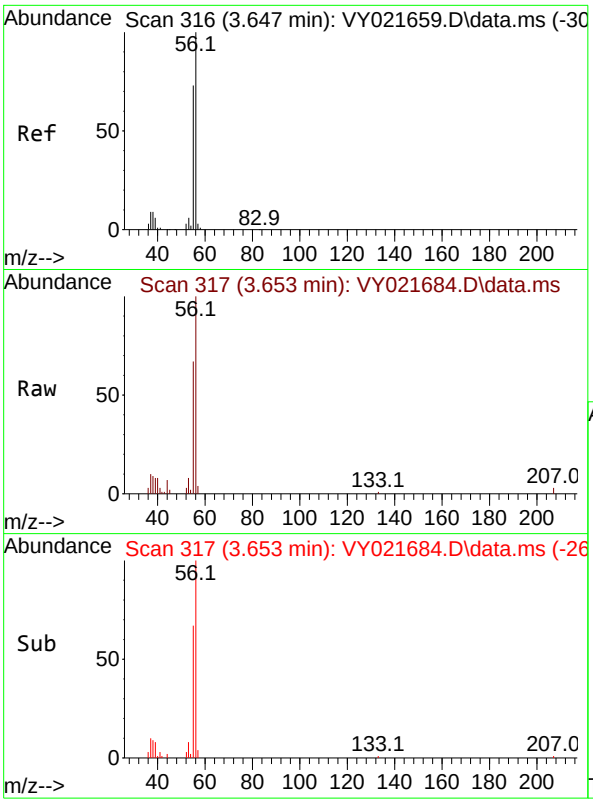


#12
1,1-Dichloroethene
Concen: 19.487 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 96 Resp: 43551

Ion	Ratio	Lower	Upper
96	100		
61	172.7	136.6	204.8
98	65.3	52.3	78.5

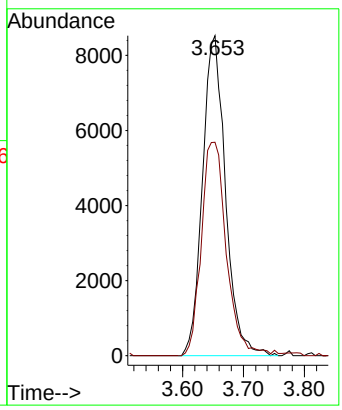




#13
Acrolein
Concen: 81.703 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 56 Resp: 2237

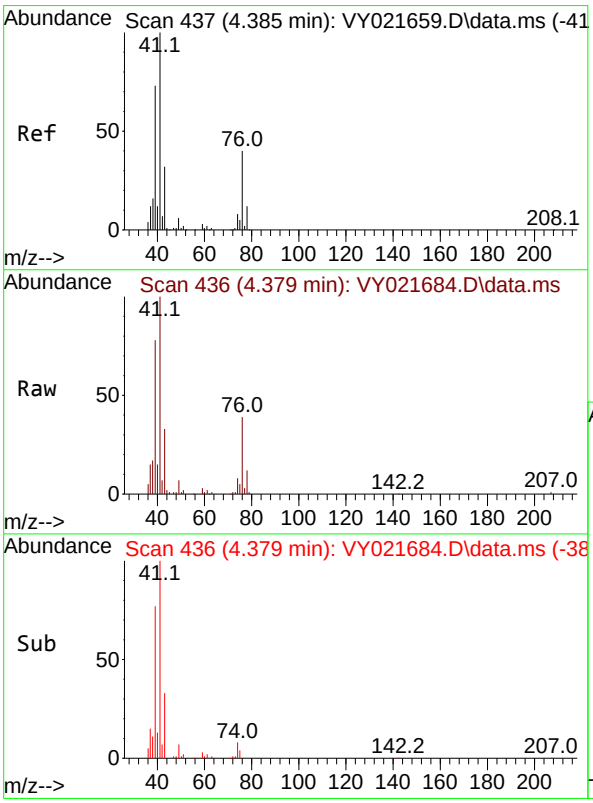
Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

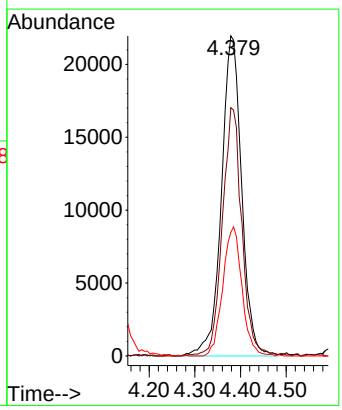
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

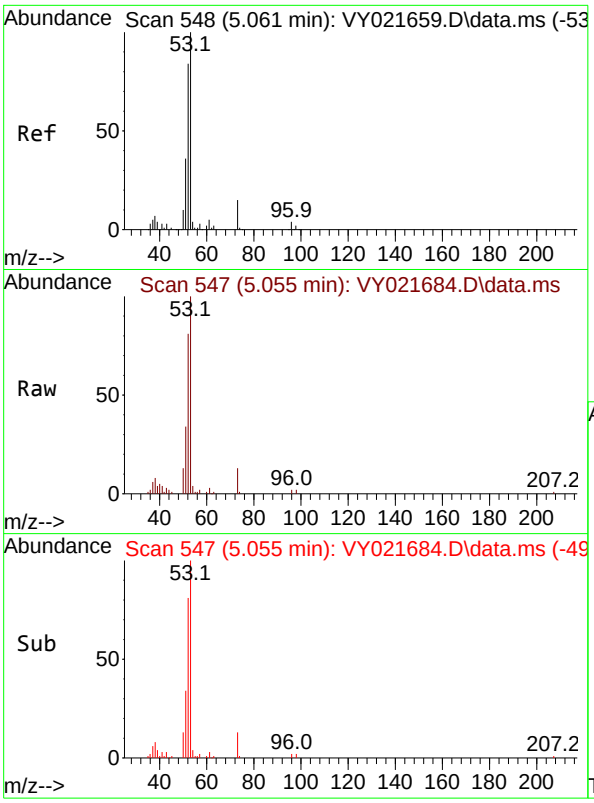


#14
Allyl chloride
Concen: 18.932 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 41 Resp: 67461

Ion	Ratio	Lower	Upper
41	100		
39	74.5	58.6	88.0
76	38.4	30.3	45.5

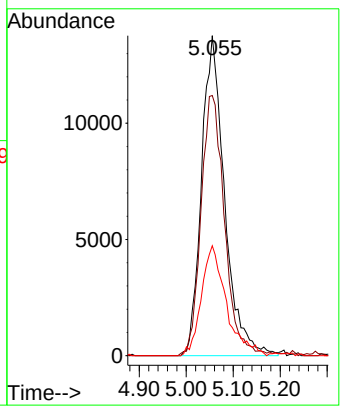




#15
Acrylonitrile
Concen: 91.918 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 53 Resp: 4695

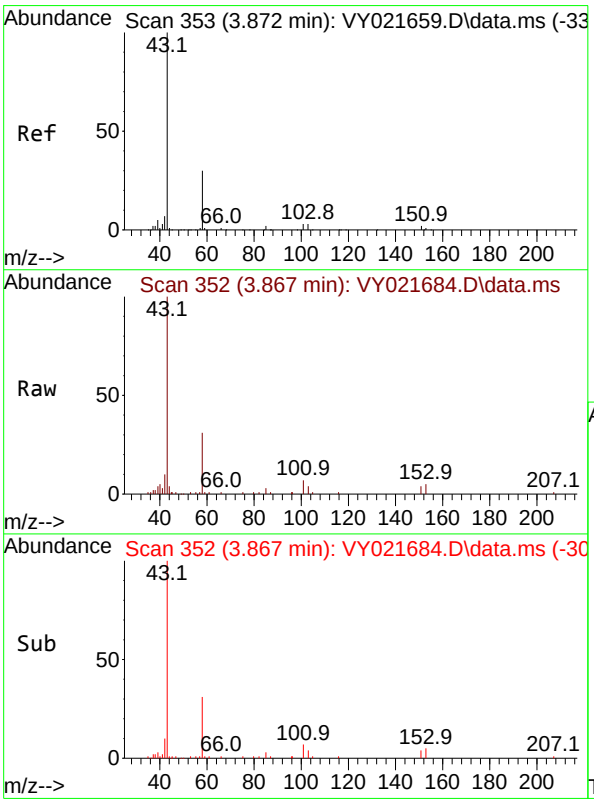
Ion	Ratio	Lower	Upper
53	100		
52	83.0	64.9	97.3
51	37.1	30.2	45.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

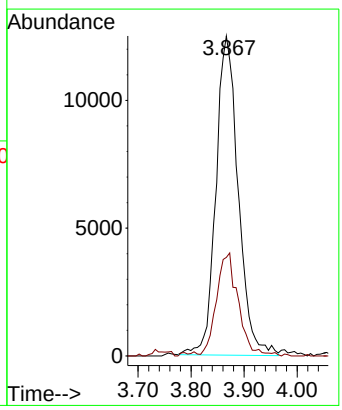
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

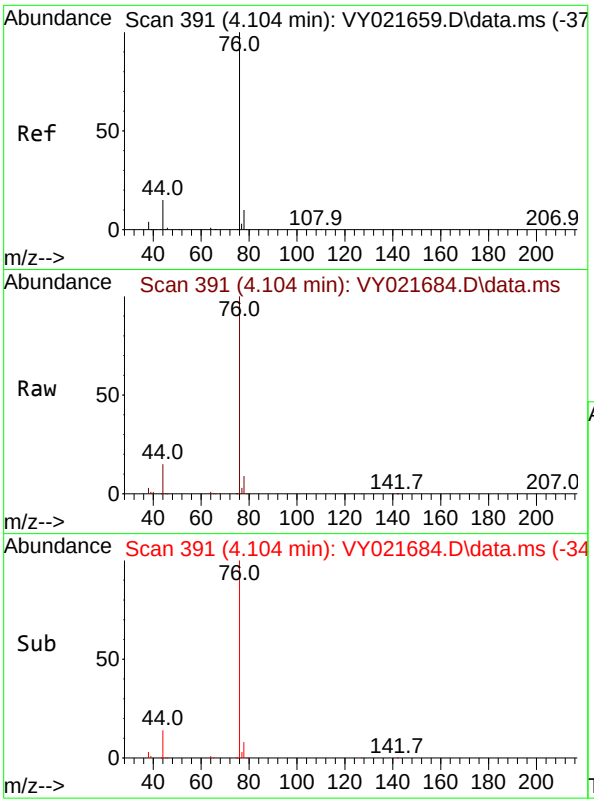


#16
Acetone
Concen: 77.352 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 43 Resp: 36547

Ion	Ratio	Lower	Upper
43	100		
58	31.0	24.2	36.4





#17
Carbon Disulfide
Concen: 19.809 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

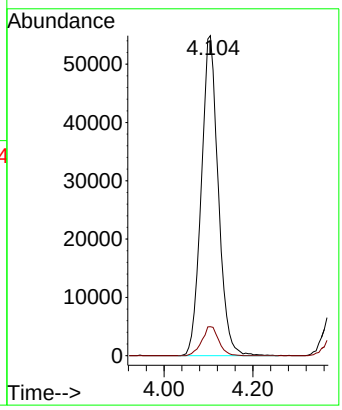
Tgt Ion: 76 Resp: 14581

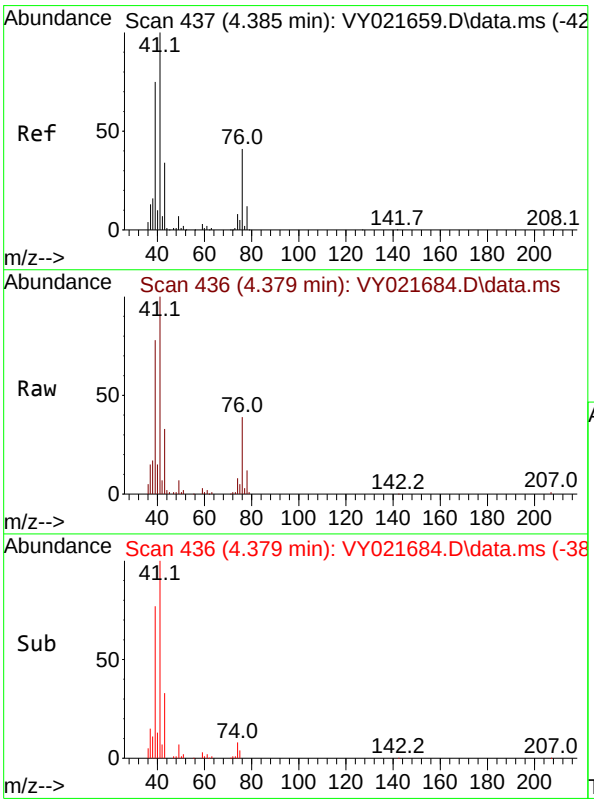
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

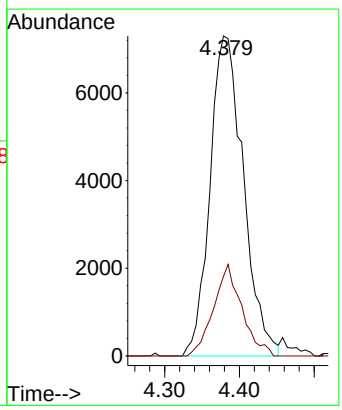


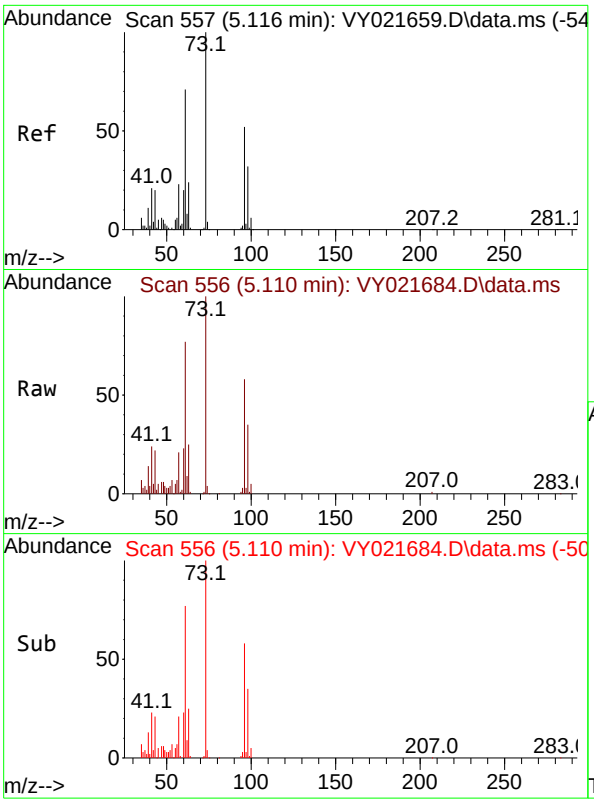


#18
Methyl Acetate
Concen: 19.329 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 43 Resp: 22634

Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.1	28.7

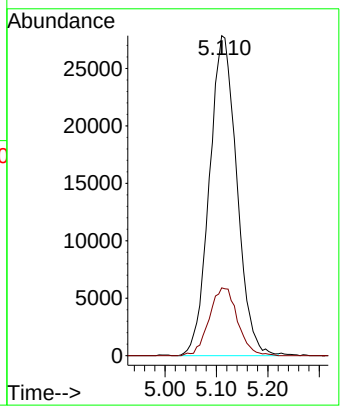




#19
Methyl tert-butyl Ether
Concen: 18.535 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 73 Resp: 10313

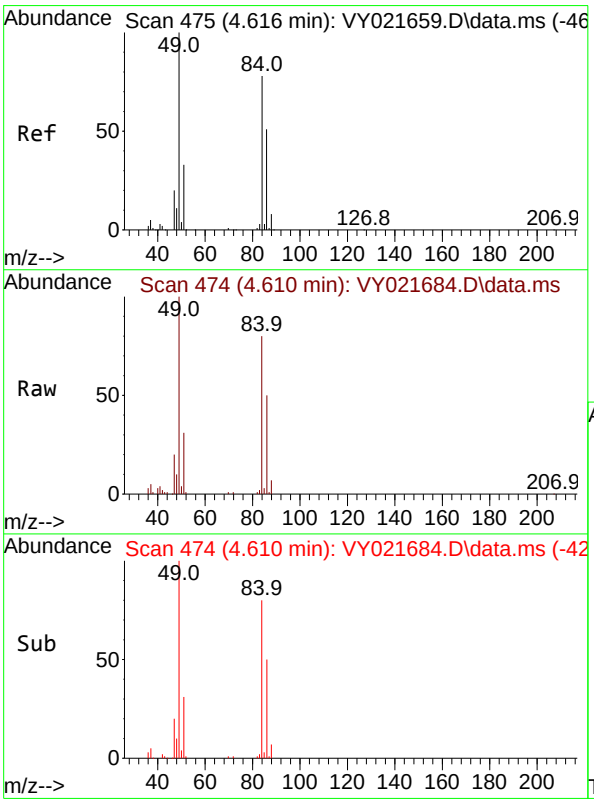
Ion	Ratio	Lower	Upper
73	100		
57	21.2	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

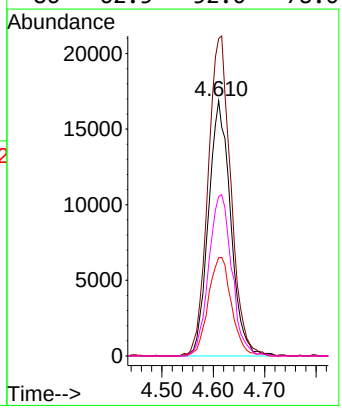
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

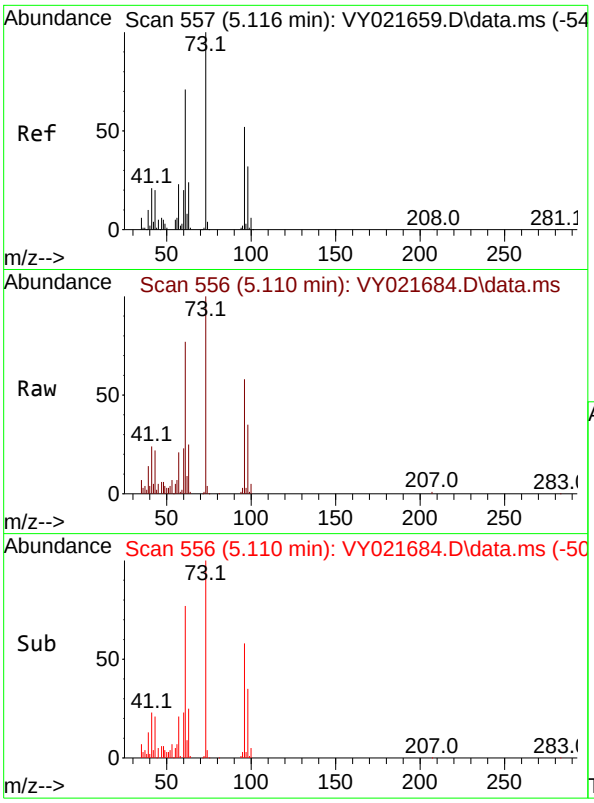


#20
Methylene Chloride
Concen: 19.511 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 84 Resp: 50561

Ion	Ratio	Lower	Upper
84	100		
49	124.4	102.8	154.2
51	38.5	33.5	50.3
86	62.5	52.0	78.0

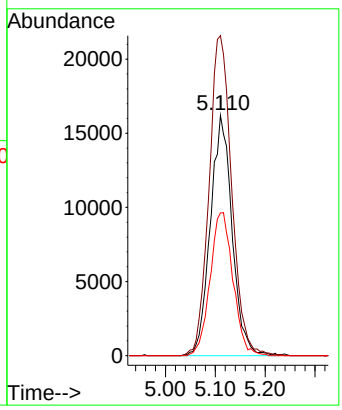




#21
trans-1,2-Dichloroethene
Concen: 19.970 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 96 Resp: 4914

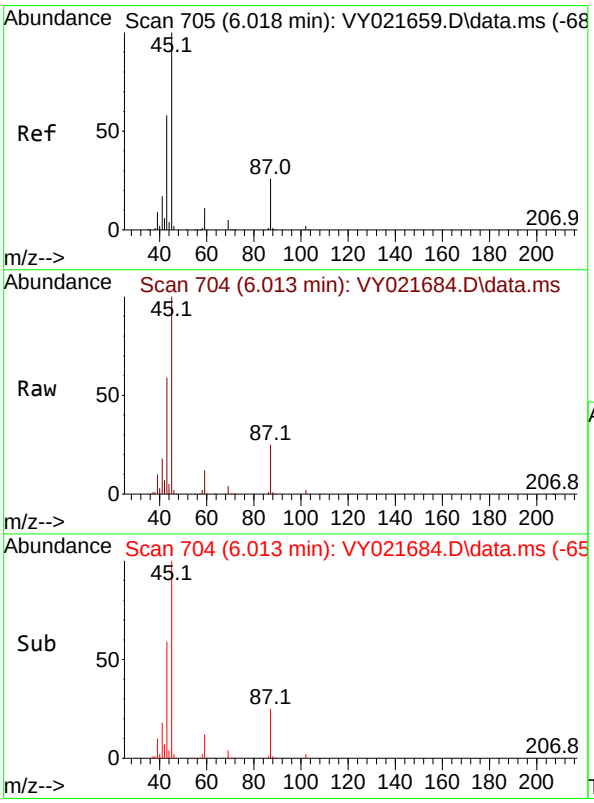
Ion	Ratio	Lower	Upper
96	100		
61	133.1	109.4	164.0
98	59.4	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

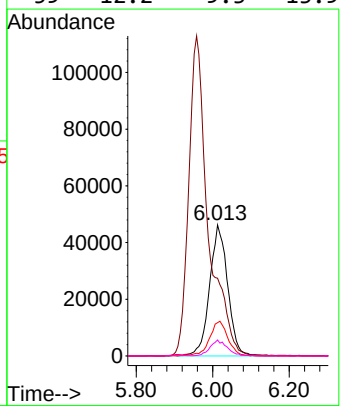
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

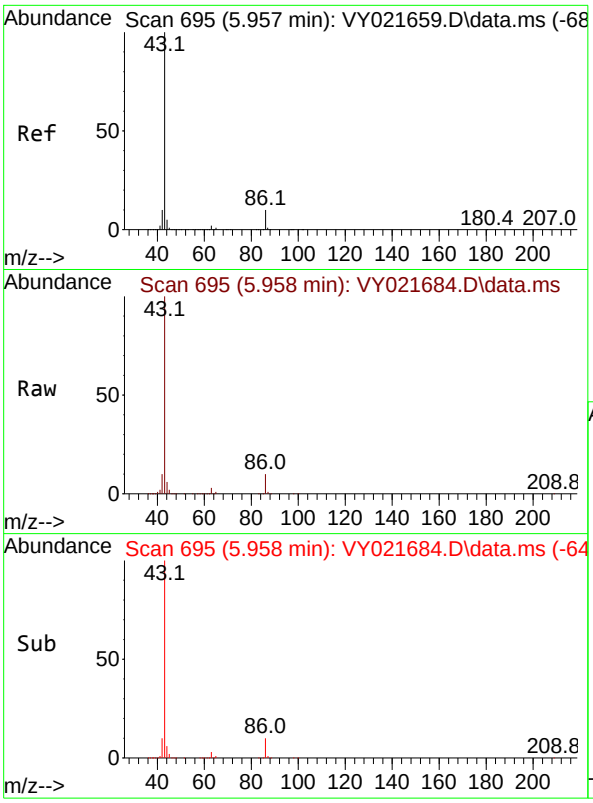


#22
Diisopropyl ether
Concen: 20.248 ug/l
RT: 6.013 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 45 Resp: 151352

Ion	Ratio	Lower	Upper
45	100		
43	58.9	46.6	69.8
87	25.4	20.7	31.1
59	12.2	9.3	13.9

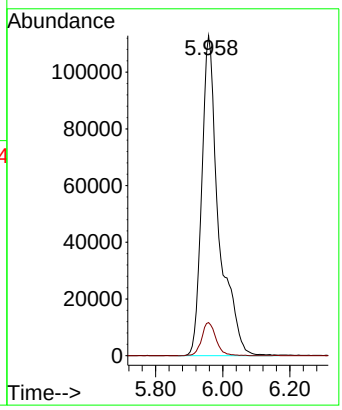




#23
Vinyl Acetate
Concen: 91.134 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 43 Resp: 39852

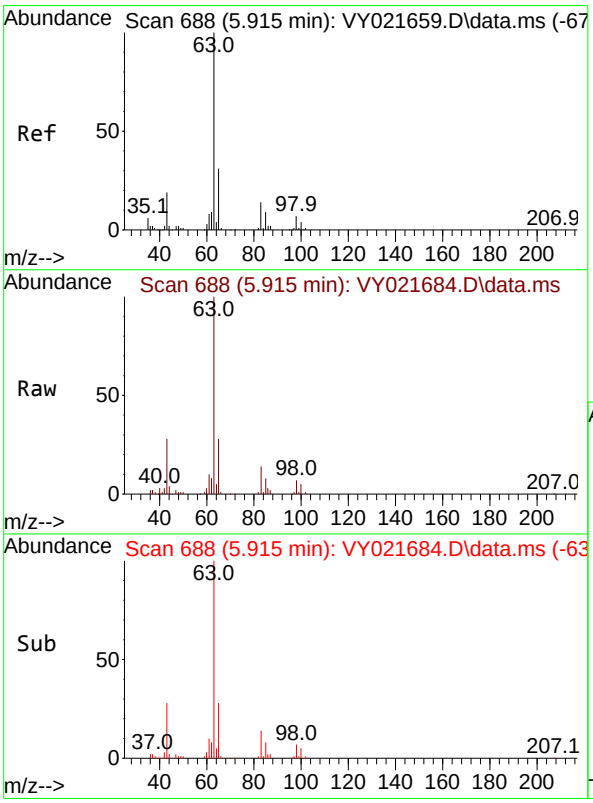
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

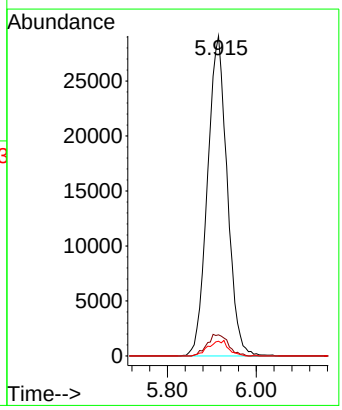
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

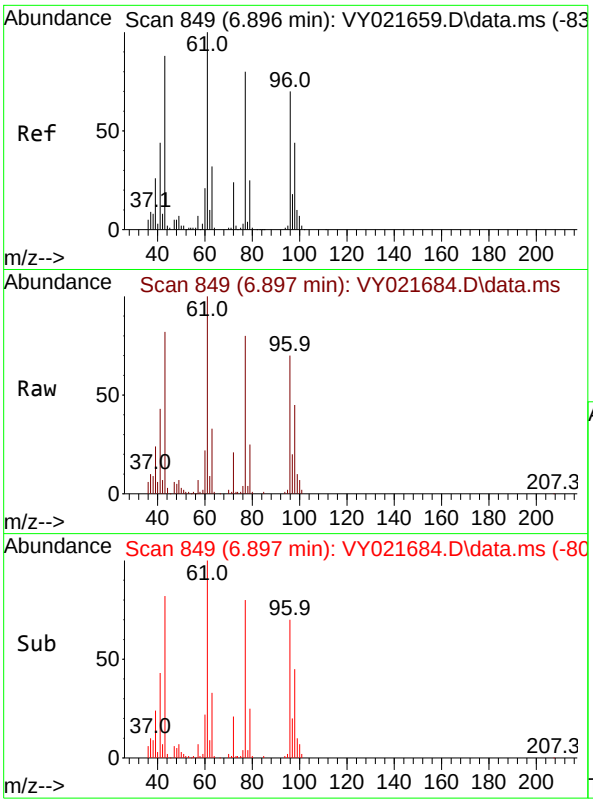


#24
1,1-Dichloroethane
Concen: 20.074 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 63 Resp: 89724

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	4.6	2.2	6.6





#25
2-Butanone
Concen: 84.871 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

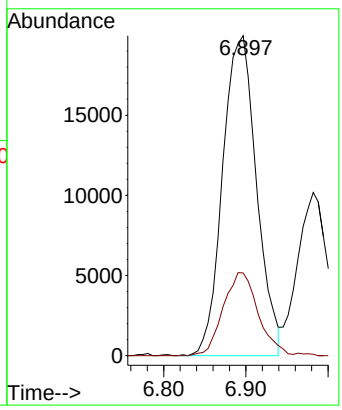
Tgt Ion: 43 Resp: 5727

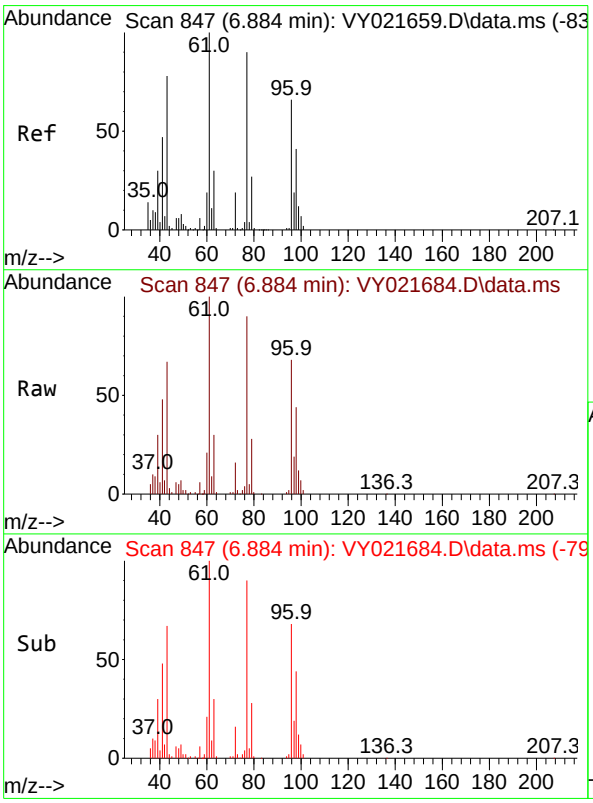
Ion	Ratio	Lower	Upper
43	100		
72	25.9	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

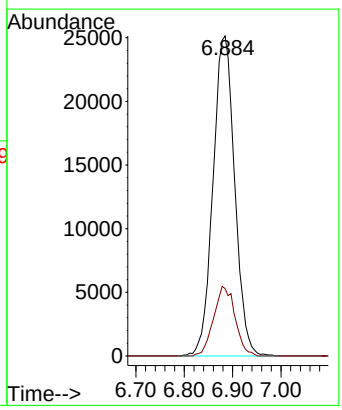


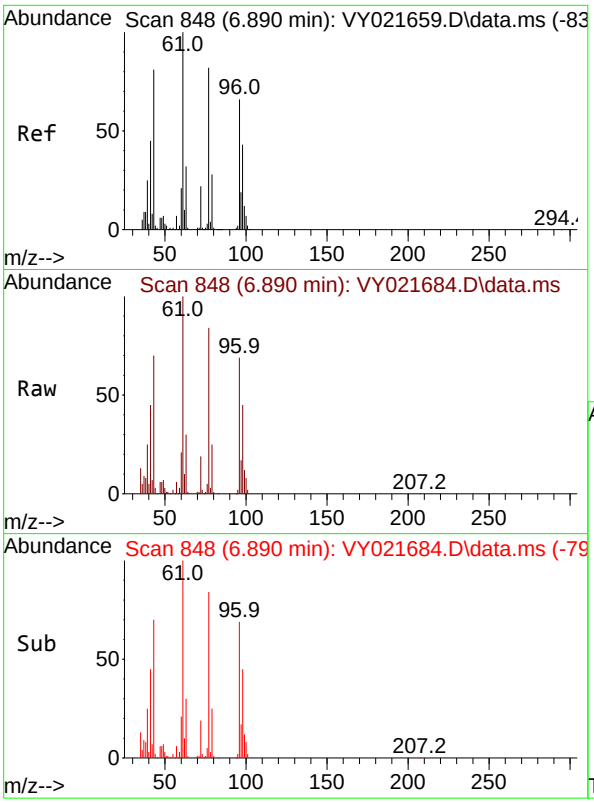


#26
2,2-Dichloropropane
Concen: 19.696 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 77 Resp: 78308

Ion	Ratio	Lower	Upper
77	100		
97	21.5	11.1	33.1

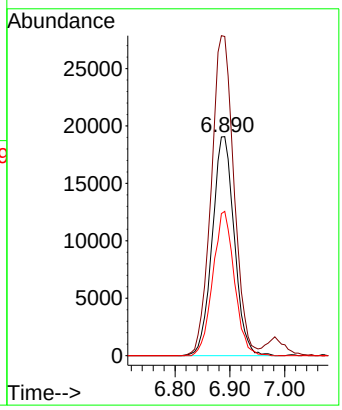




#27
cis-1,2-Dichloroethene
Concen: 19.240 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 96 Resp: 5324

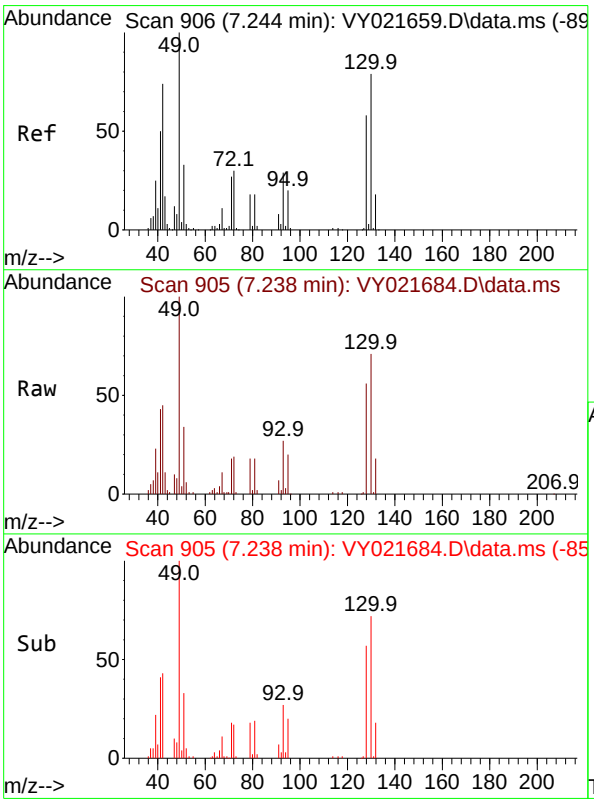
Ion	Ratio	Lower	Upper
96	100		
61	150.9	0.0	296.4
98	64.5	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

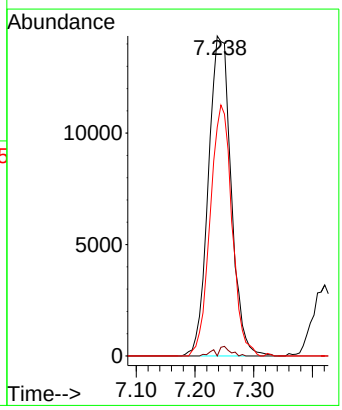
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

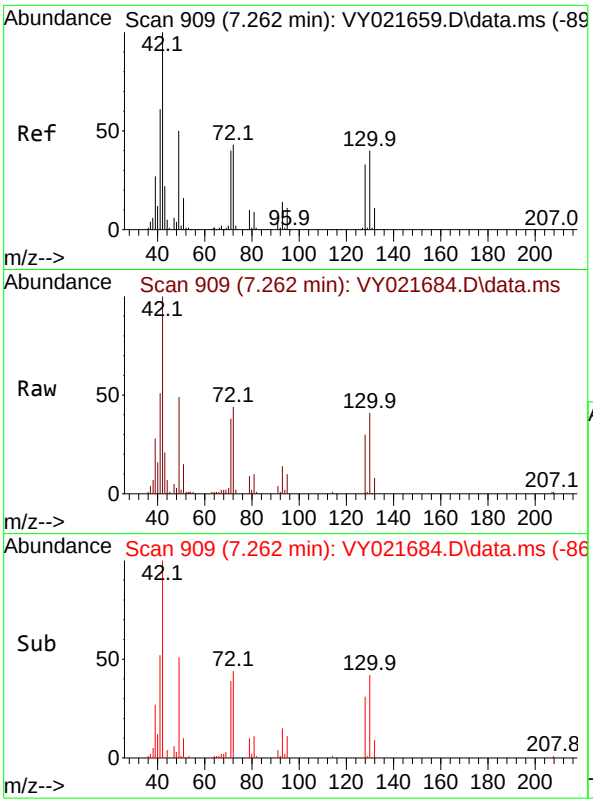


#28
Bromochloromethane
Concen: 20.470 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 49 Resp: 38586

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	75.3	60.1	90.1

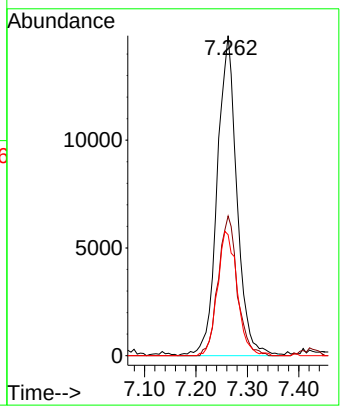




#29
Tetrahydrofuran
Concen: 90.922 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 42 Resp: 3948

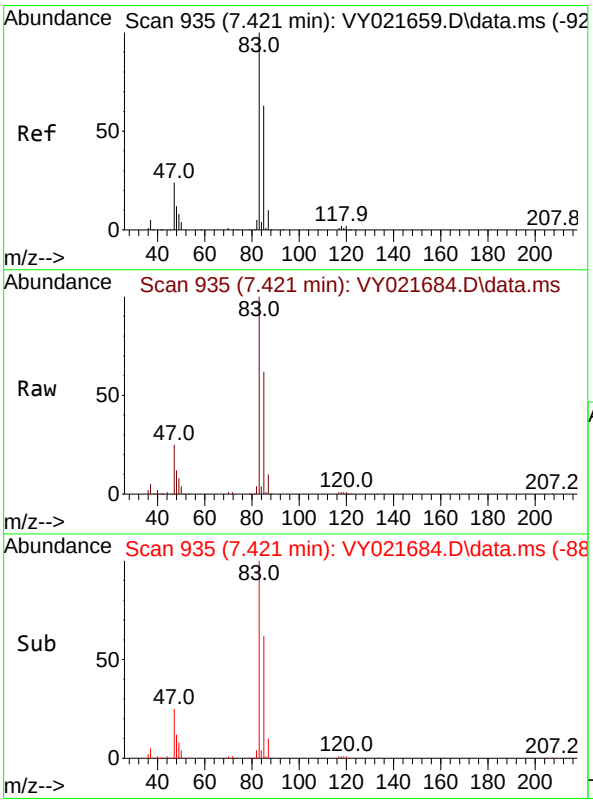
Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.6	52.0
71	38.8	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

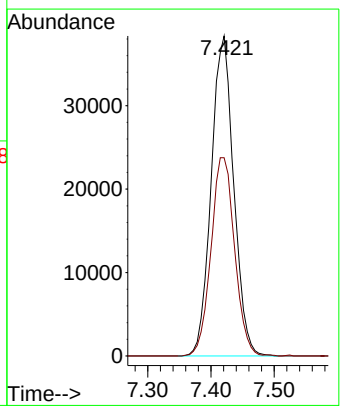
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

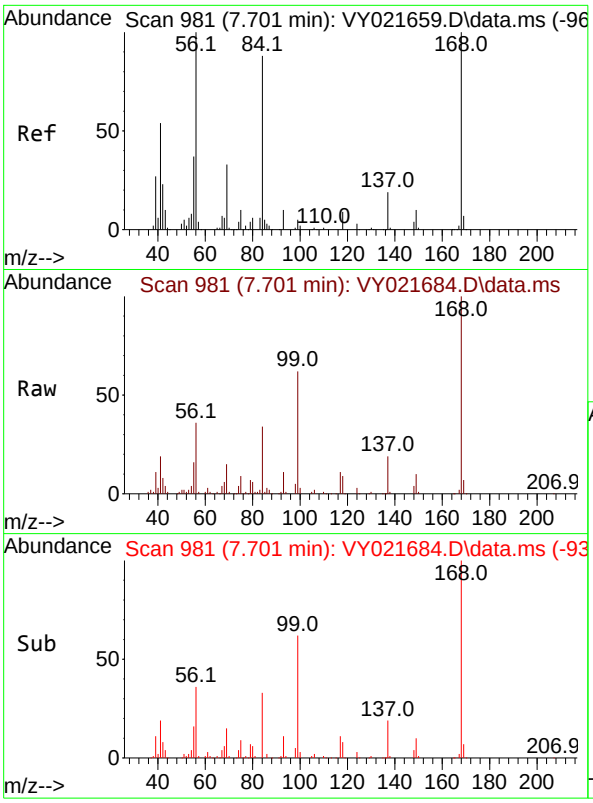


#30
Chloroform
Concen: 20.358 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 83 Resp: 94642

Ion	Ratio	Lower	Upper
83	100		
85	61.9	50.6	75.8





#31
Cyclohexane
Concen: 19.310 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

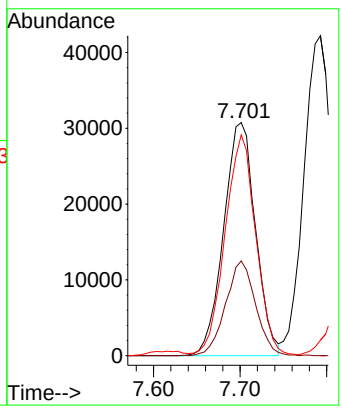
Tgt Ion: 56 Resp: 7868

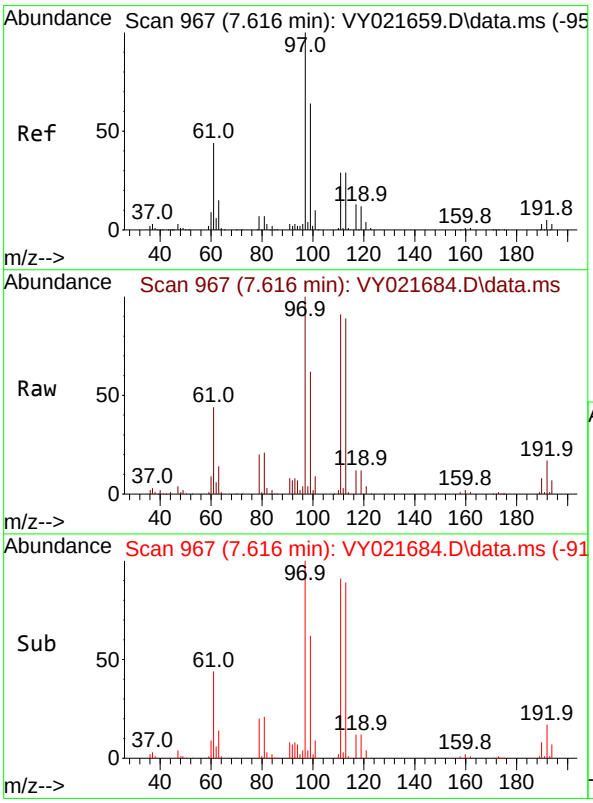
Ion	Ratio	Lower	Upper
56	100		
69	40.6	26.6	40.0
84	92.9	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

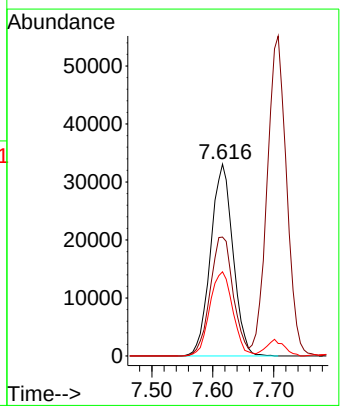


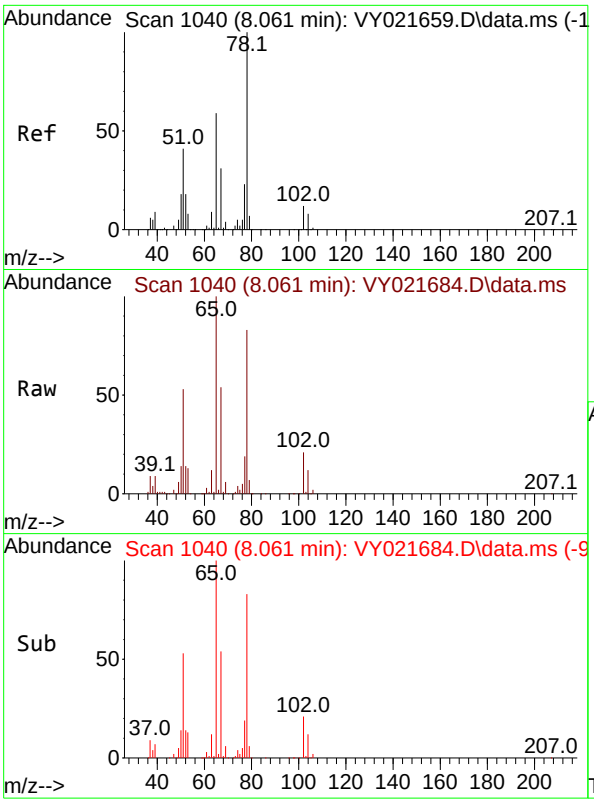


#32
1,1,1-Trichloroethane
Concen: 20.112 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 97 Resp: 84505

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.7	76.1
61	45.2	35.2	52.8

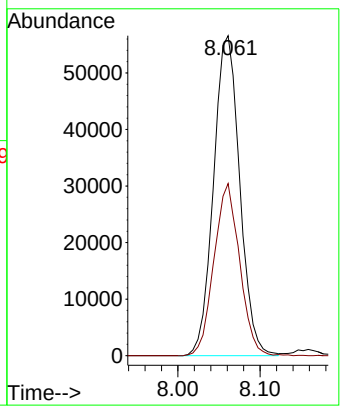




#33
1,2-Dichloroethane-d4
Concen: 54.308 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 65 Resp: 12537

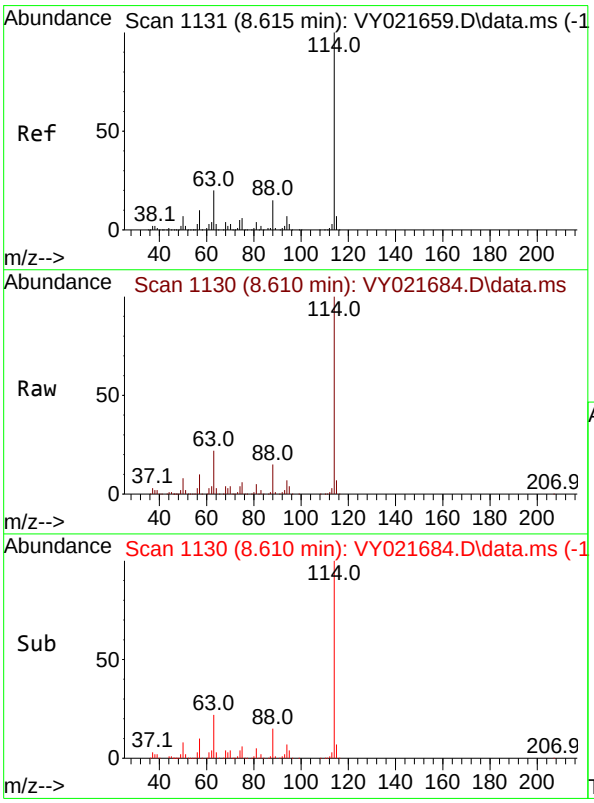
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

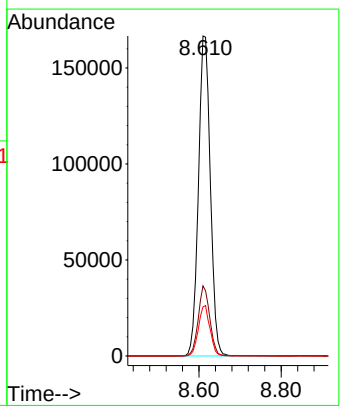
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

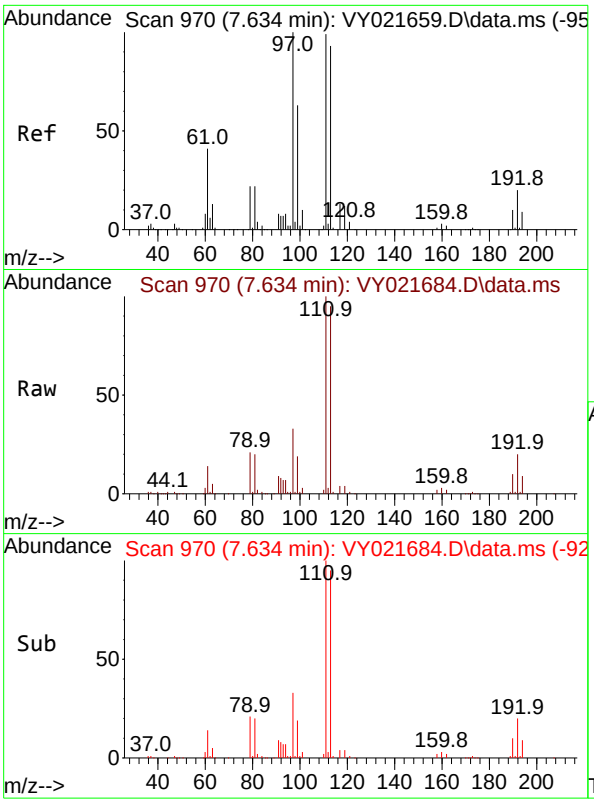


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:114 Resp: 334394

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	40.2
88	15.3	0.0	29.8

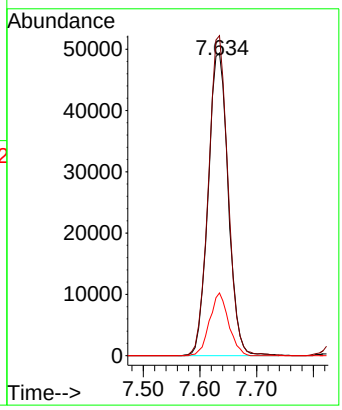




#35
Dibromofluoromethane
Concen: 55.828 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:113 Resp: 12109

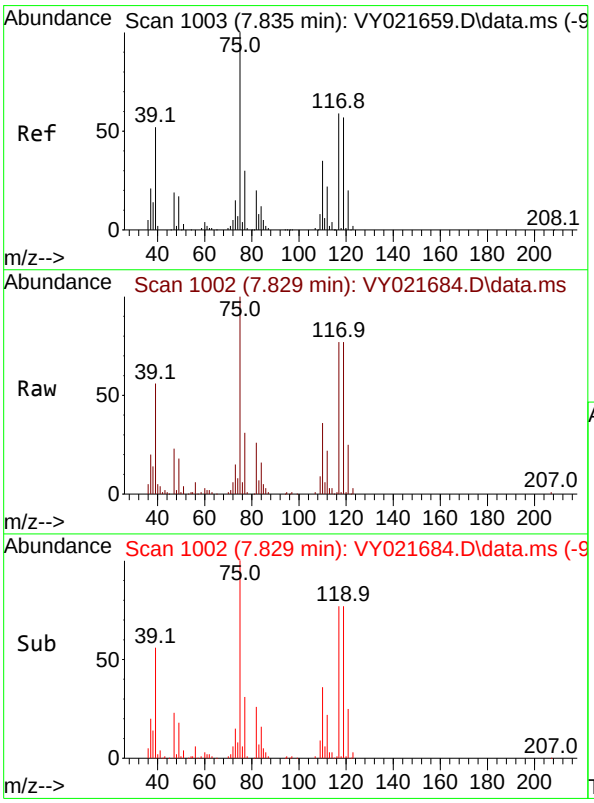
Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.6	123.8
192	19.7	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

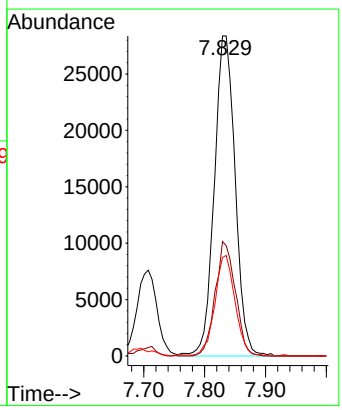
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

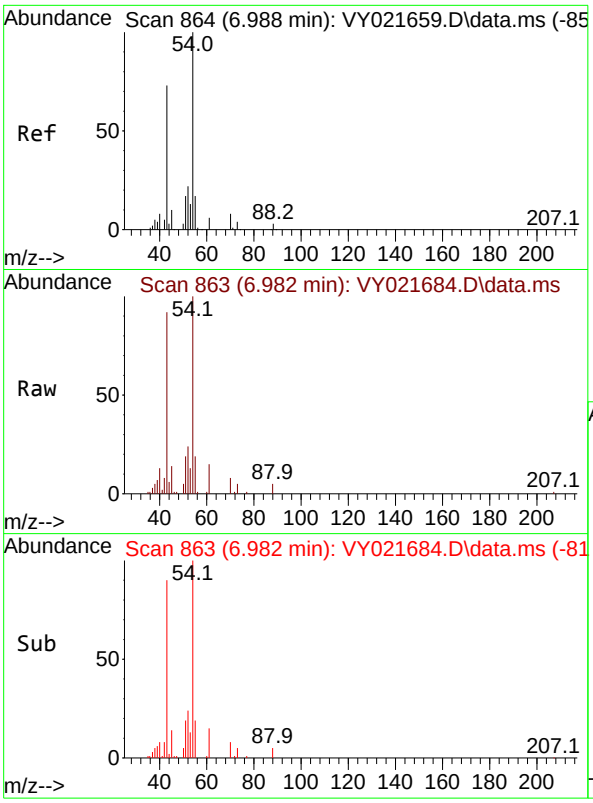


#36
1,1-Dichloropropene
Concen: 20.433 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 75 Resp: 67509

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.0	50.9
77	30.6	24.8	37.2





#37
Ethyl Acetate
Concen: 17.655 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

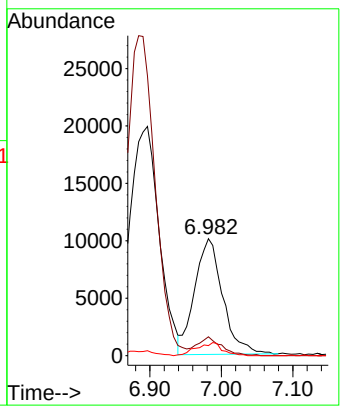
Tgt Ion: 43 Resp: 2752

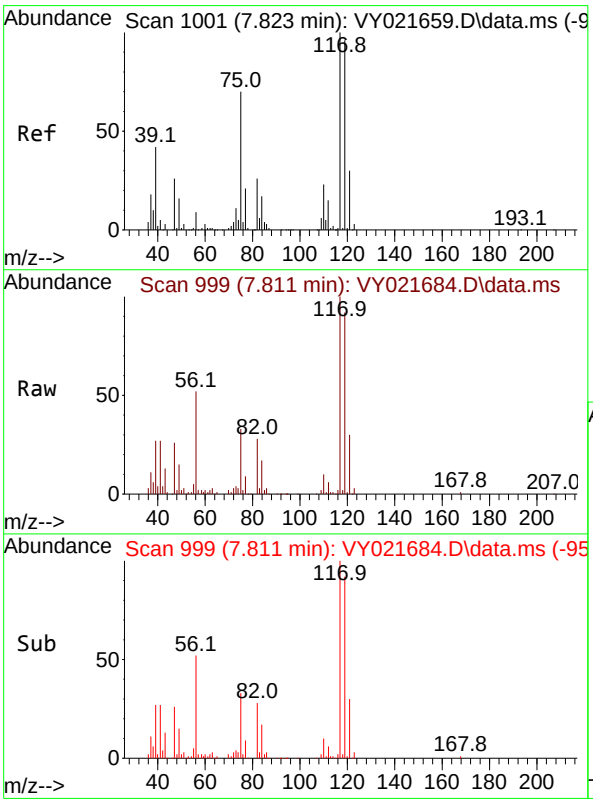
Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.0	16.6
70	10.4	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

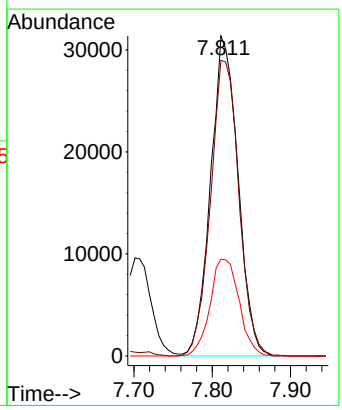


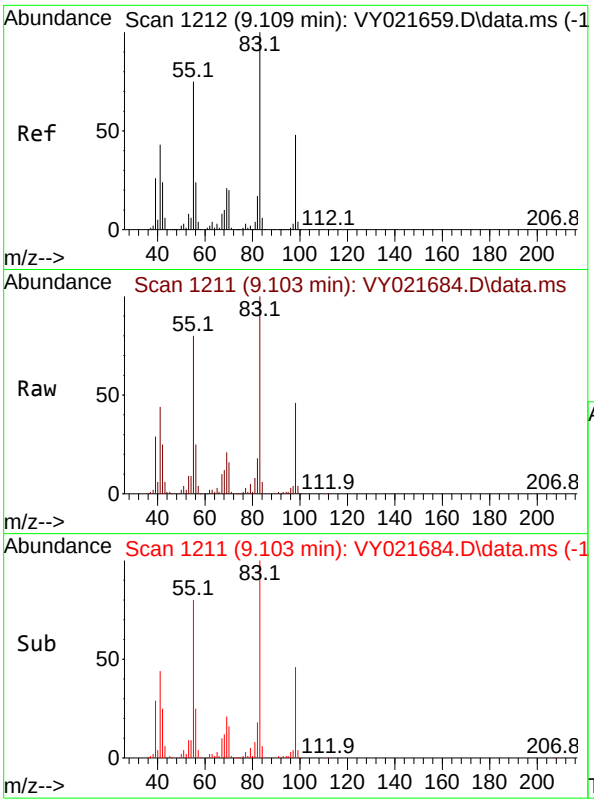


#38
Carbon Tetrachloride
Concen: 20.151 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.012 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:117 Resp: 76253

Ion	Ratio	Lower	Upper
117	100		
119	92.4	76.2	114.4
121	30.2	24.2	36.4





#39
Methylcyclohexane
Concen: 19.532 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

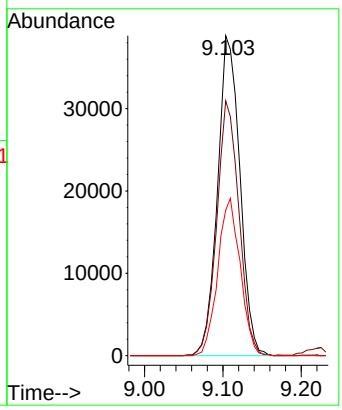
Tgt Ion: 83 Resp: 7709

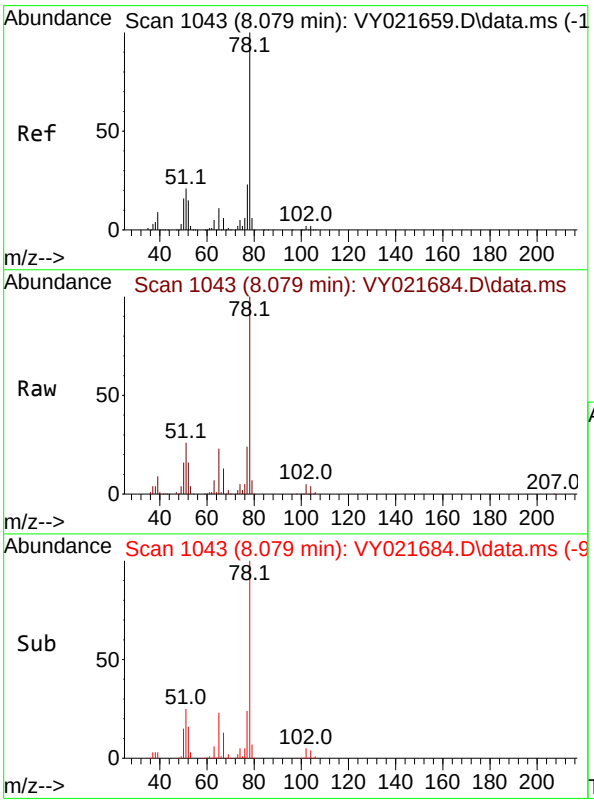
Ion	Ratio	Lower	Upper
83	100		
55	79.7	59.7	89.5
98	45.5	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

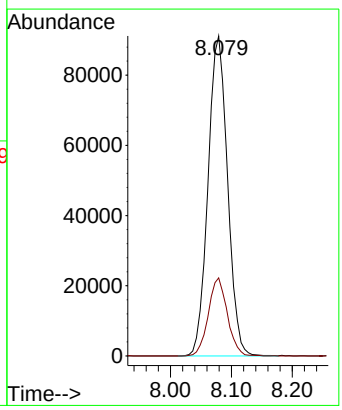


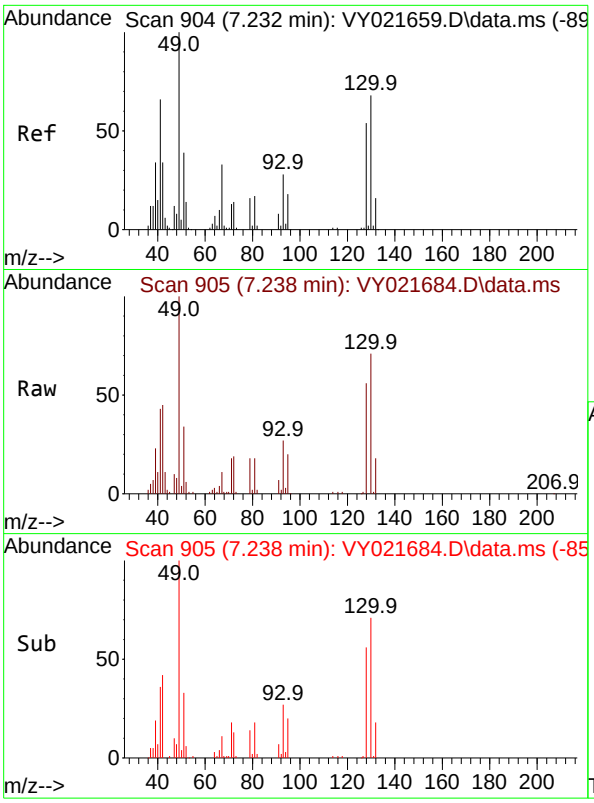


#40
Benzene
Concen: 20.530 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 78 Resp: 203139

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2

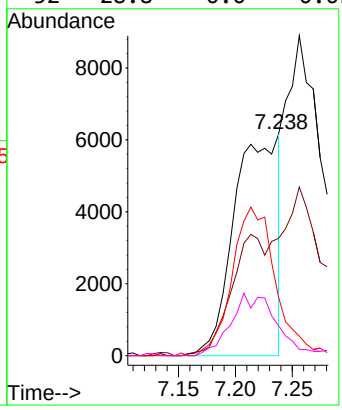




#41
Methacrylonitrile
Concen: 20.212 ug/l m
RT: 7.238 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 41 Resp: 1673

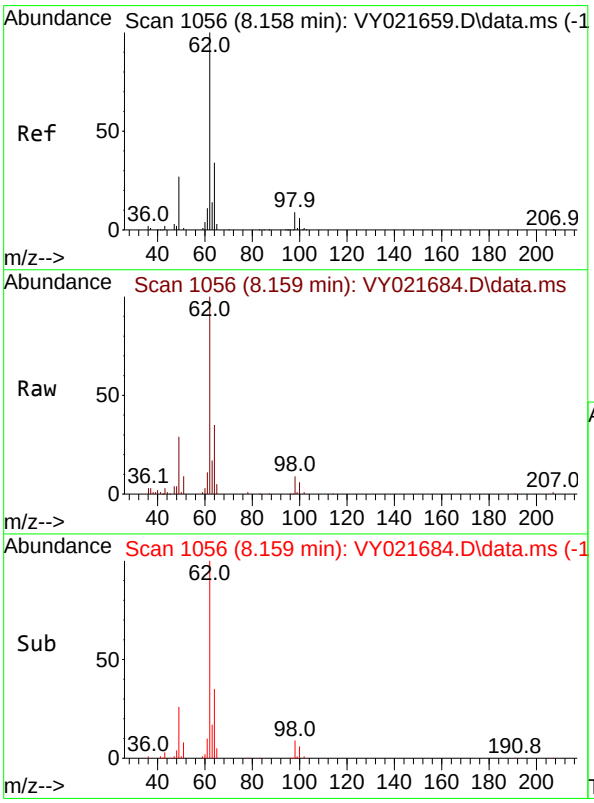
Ion	Ratio	Lower	Upper
41	100		
39	41.2	0.0	0.0#
67	66.1	0.0	0.0#
52	28.8	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

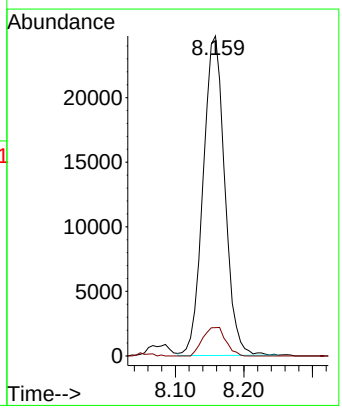
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

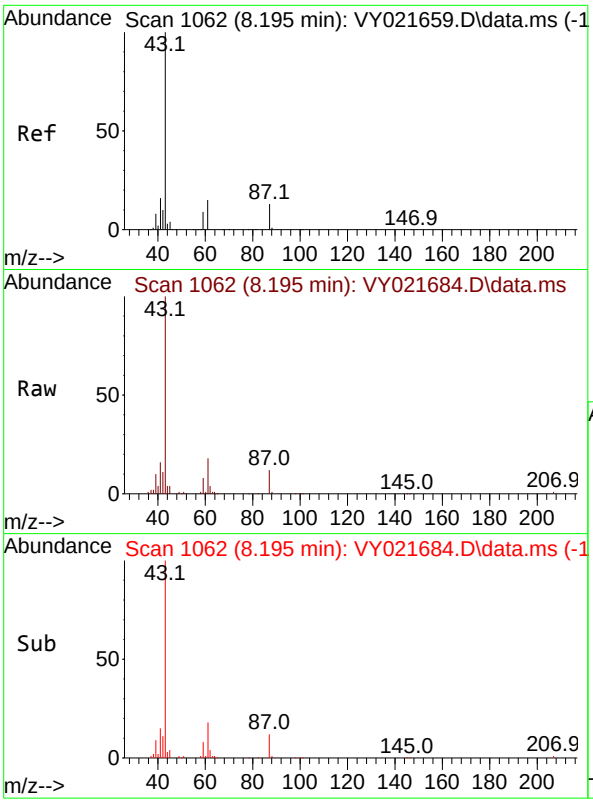


#42
1,2-Dichloroethane
Concen: 19.484 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 62 Resp: 54350

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4

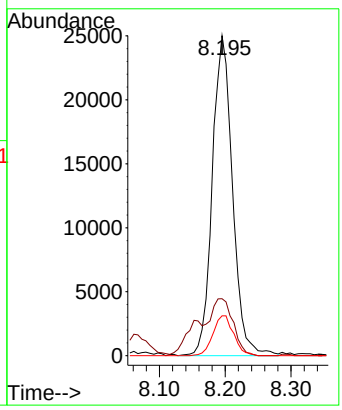




#43
Isopropyl Acetate
Concen: 18.137 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 43 Resp: 5359

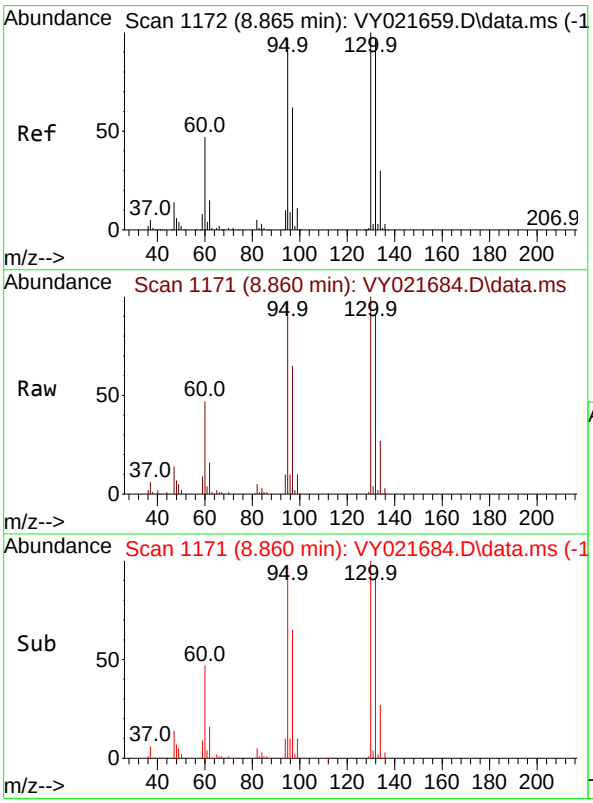
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.9	23.9
87	12.8	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

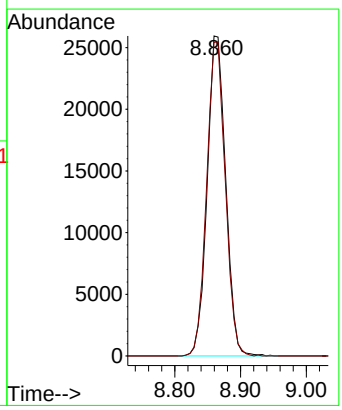
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

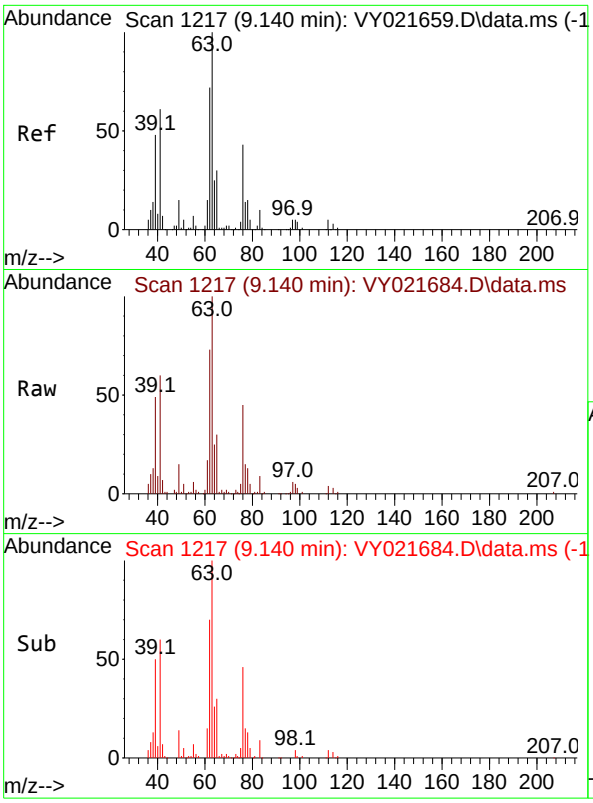


#44
Trichloroethene
Concen: 20.156 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:130 Resp: 50815

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	194.8

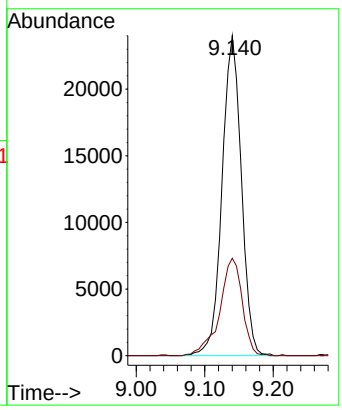




#45
1,2-Dichloropropane
Concen: 20.041 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 63 Resp: 4693

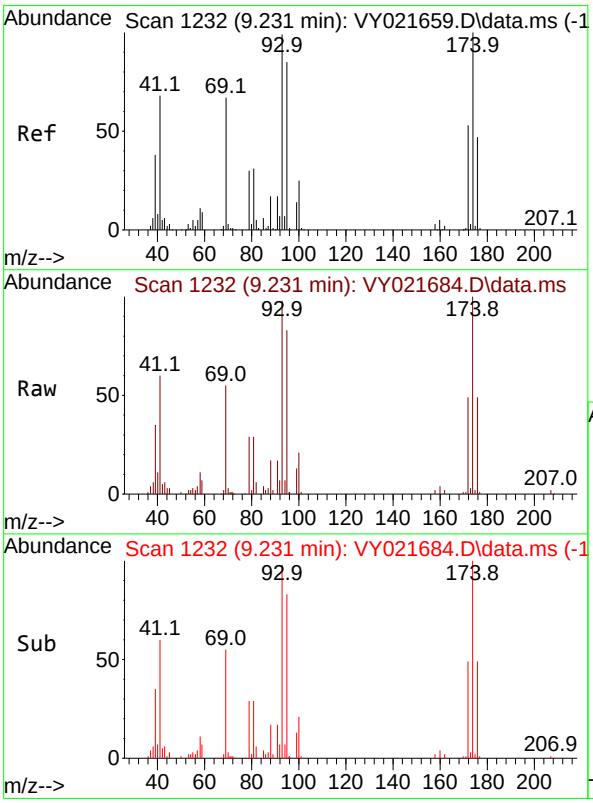
Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

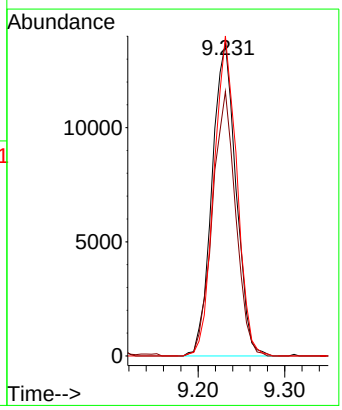
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

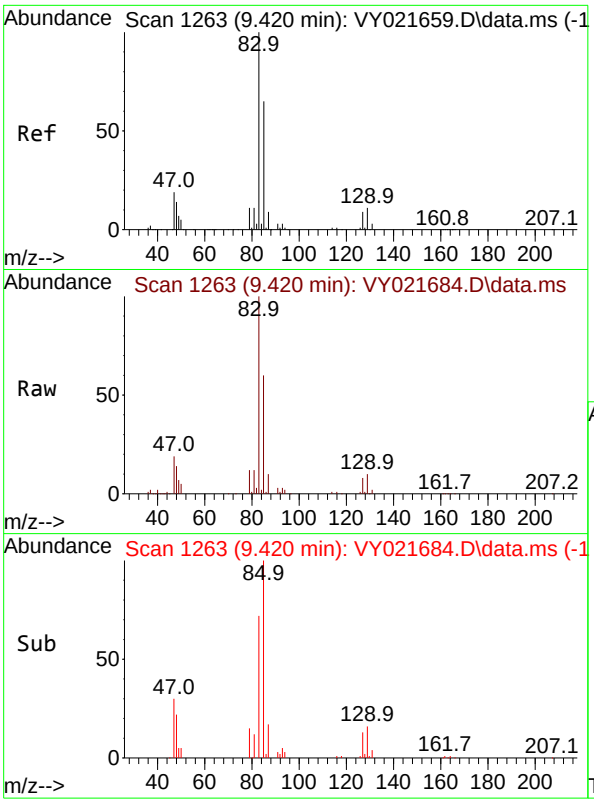


#46
Dibromomethane
Concen: 19.499 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 93 Resp: 26320

Ion	Ratio	Lower	Upper
93	100		
95	82.0	68.1	102.1
174	97.6	80.9	121.3

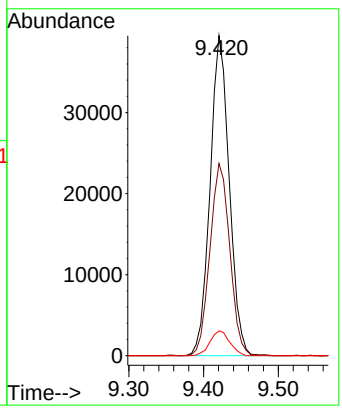




#47
Bromodichloromethane
Concen: 20.148 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 83 Resp: 7047

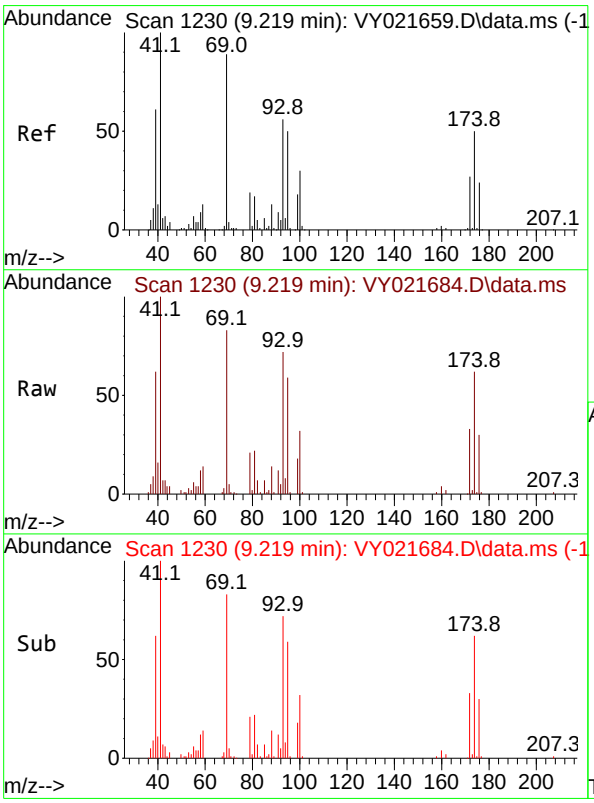
Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.8	77.6
127	7.7	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

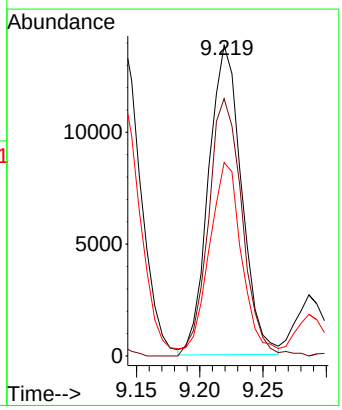
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

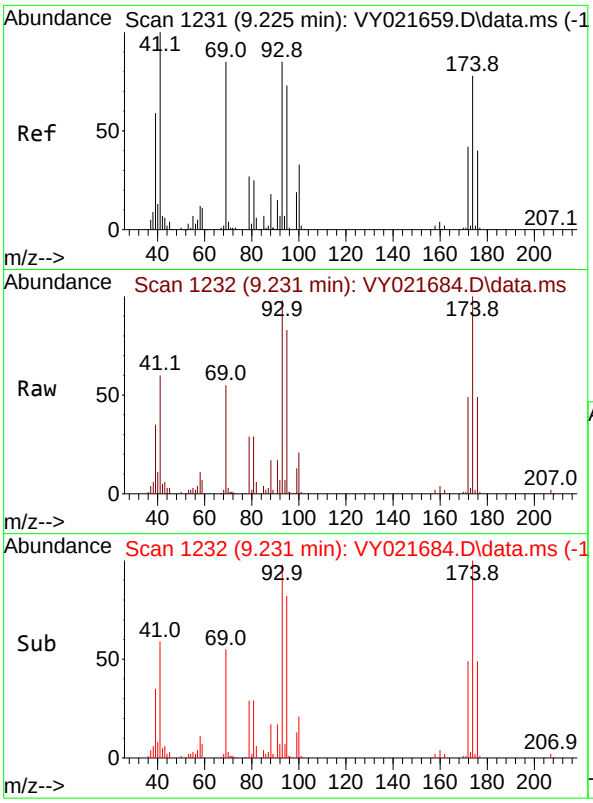


#48
Methyl methacrylate
Concen: 18.556 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 41 Resp: 25166

Ion	Ratio	Lower	Upper
41	100		
69	84.7	69.8	104.8
39	57.4	47.2	70.8

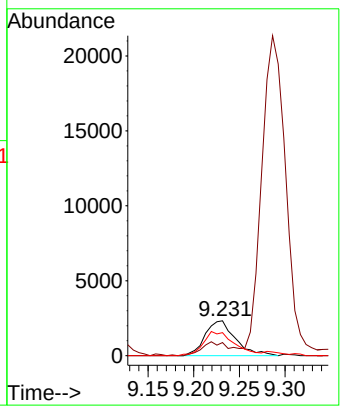




#49
1,4-Dioxane
Concen: 372.132 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 88 Resp: 538

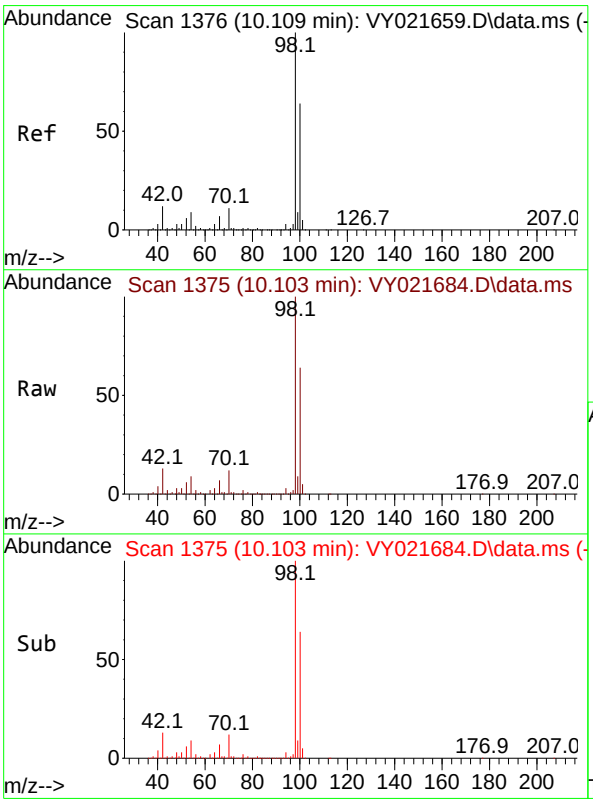
Ion	Ratio	Lower	Upper
88	100		
43	36.9	28.8	43.2
58	70.5	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

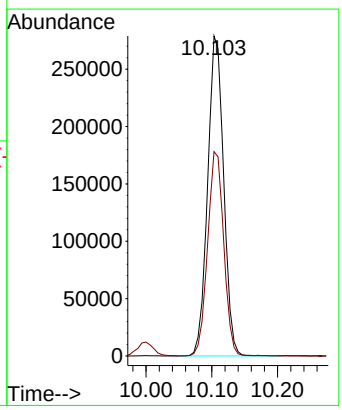
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

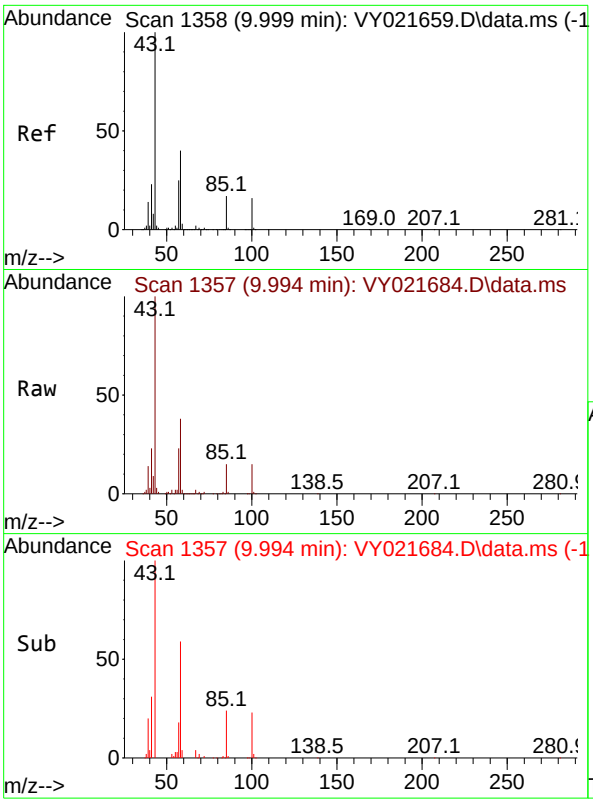


#50
Toluene-d8
Concen: 57.236 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 98 Resp: 472315

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

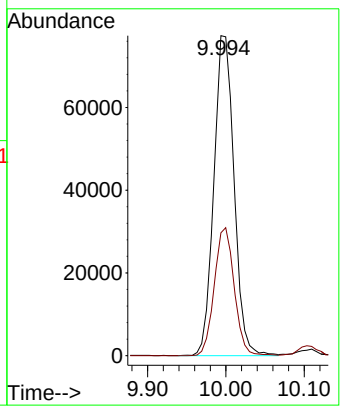




#51
4-Methyl-2-Pentanone
Concen: 90.388 ug/l
RT: 9.994 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 43 Resp: 13899

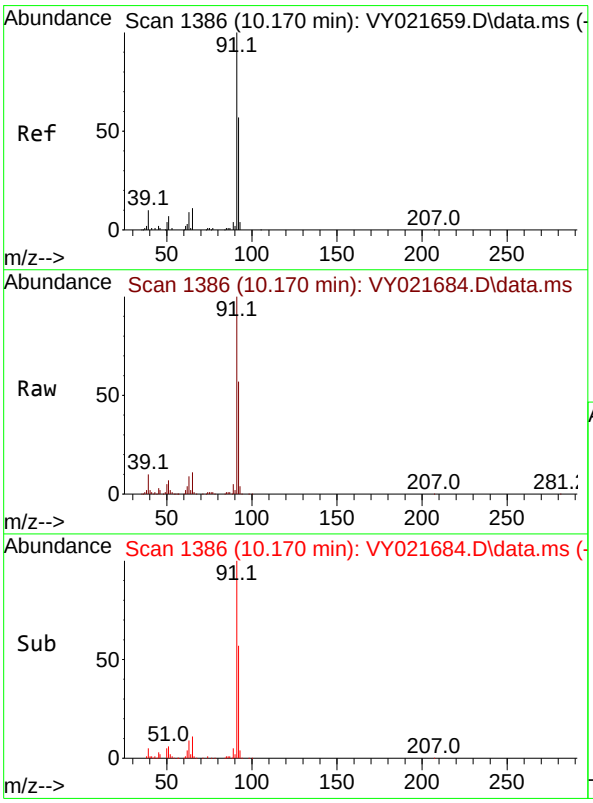
Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

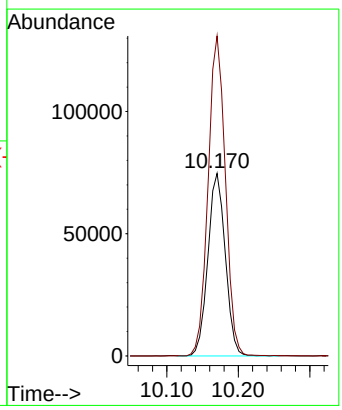
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

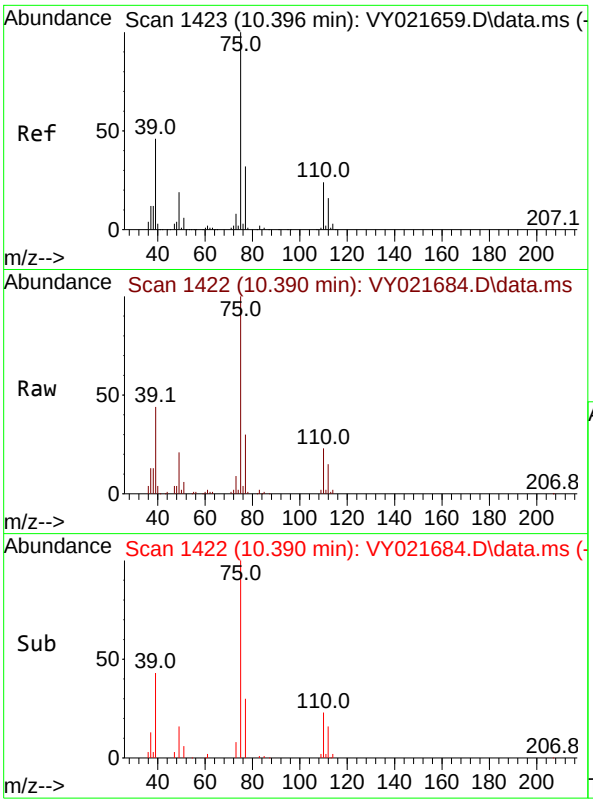


#52
Toluene
Concen: 20.482 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 92 Resp: 126444

Ion	Ratio	Lower	Upper
92	100		
91	173.8	138.6	207.8

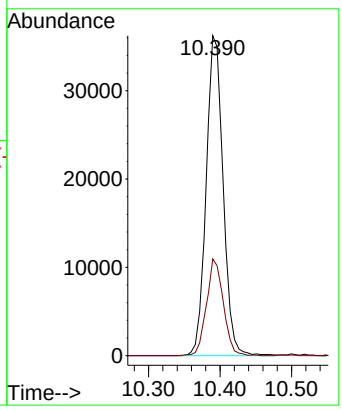




#53
t-1,3-Dichloropropene
Concen: 19.212 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 75 Resp: 5968

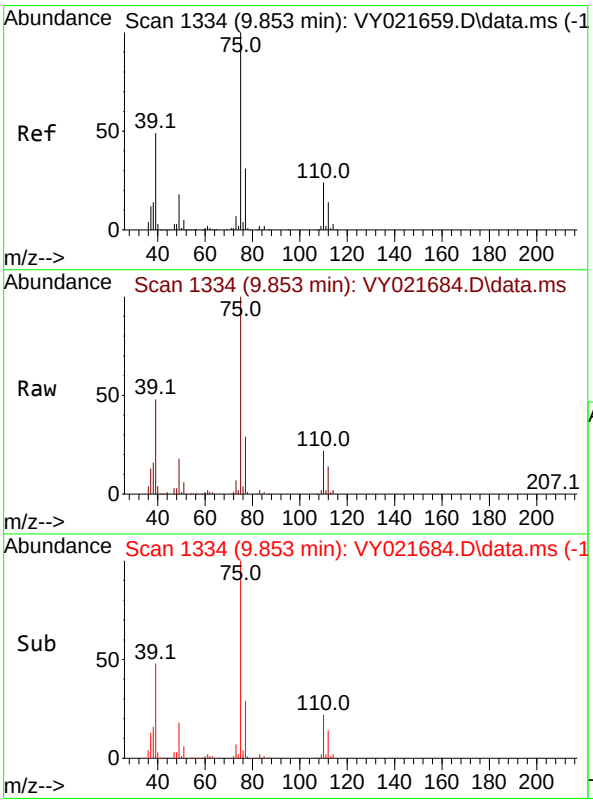
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

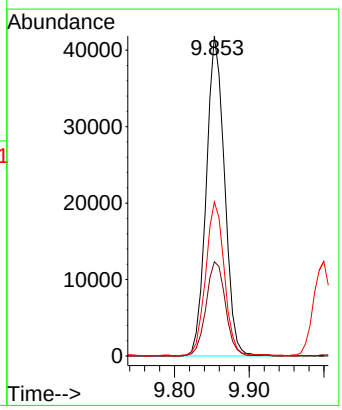
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

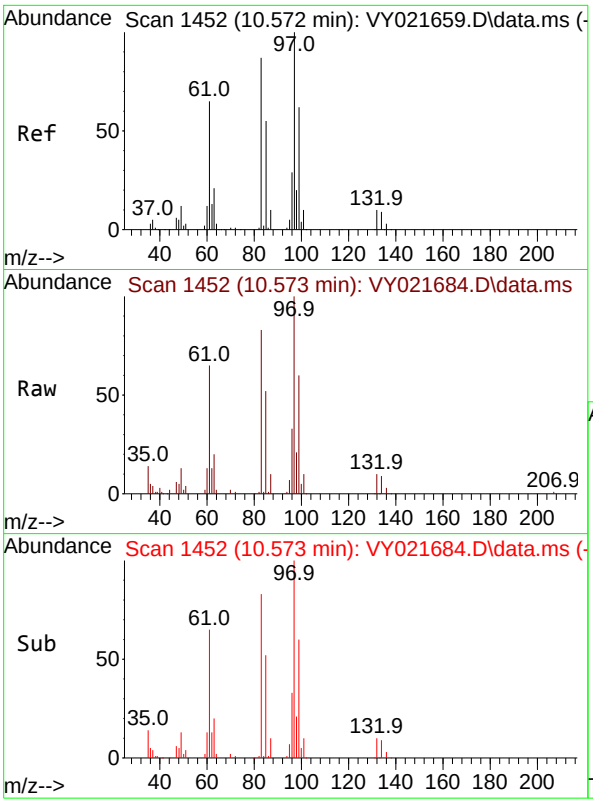


#54
cis-1,3-Dichloropropene
Concen: 19.309 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 75 Resp: 70767

Ion	Ratio	Lower	Upper
75	100		
77	29.5	24.9	37.3
39	48.1	39.2	58.8

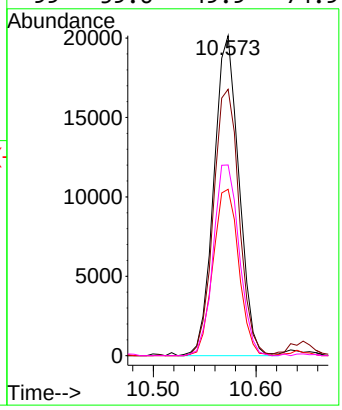




#55
1,1,2-Trichloroethane
Concen: 19.681 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 97 Resp: 3418

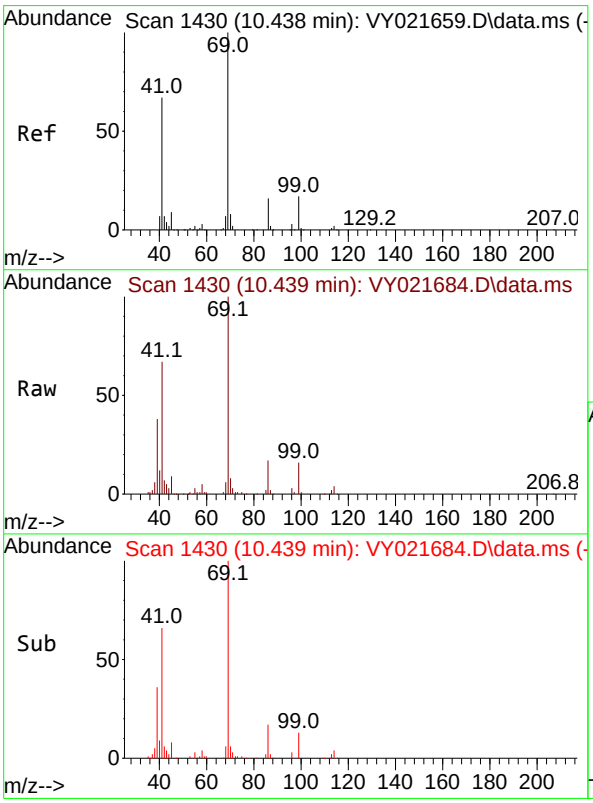
Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.5	104.3
85	52.0	43.9	65.9
99	59.6	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

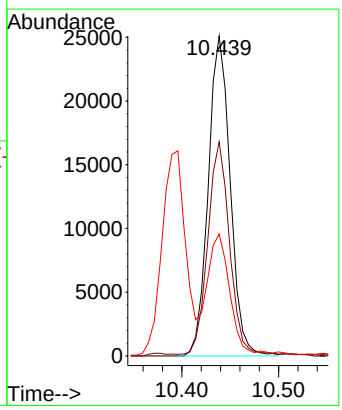
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

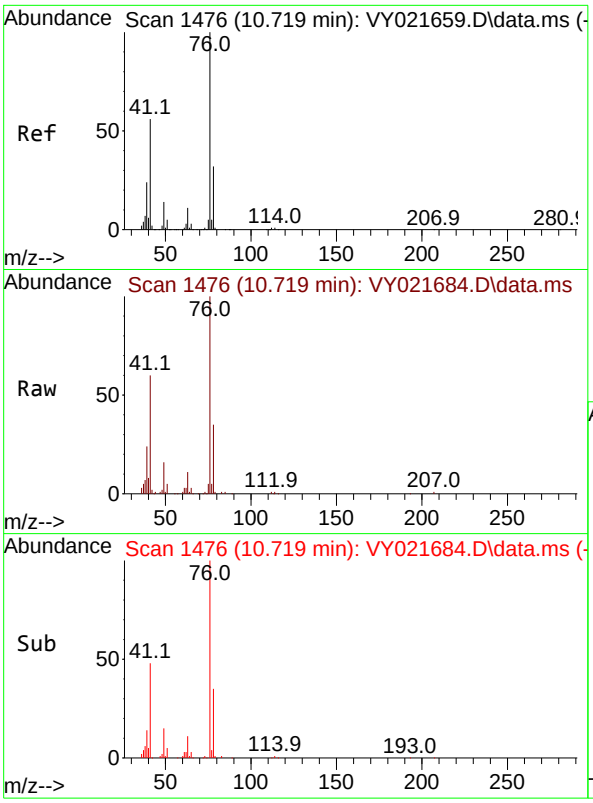


#56
Ethyl methacrylate
Concen: 17.869 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 69 Resp: 39633

Ion	Ratio	Lower	Upper
69	100		
41	65.5	53.8	80.6
39	38.4	29.6	44.4

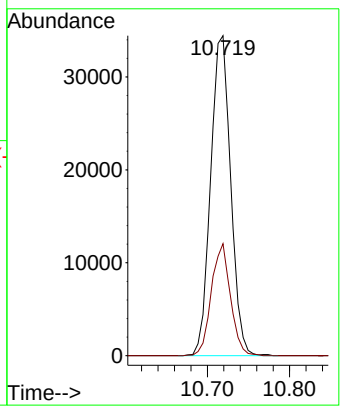




#57
1,3-Dichloropropane
Concen: 19.456 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 76 Resp: 5836

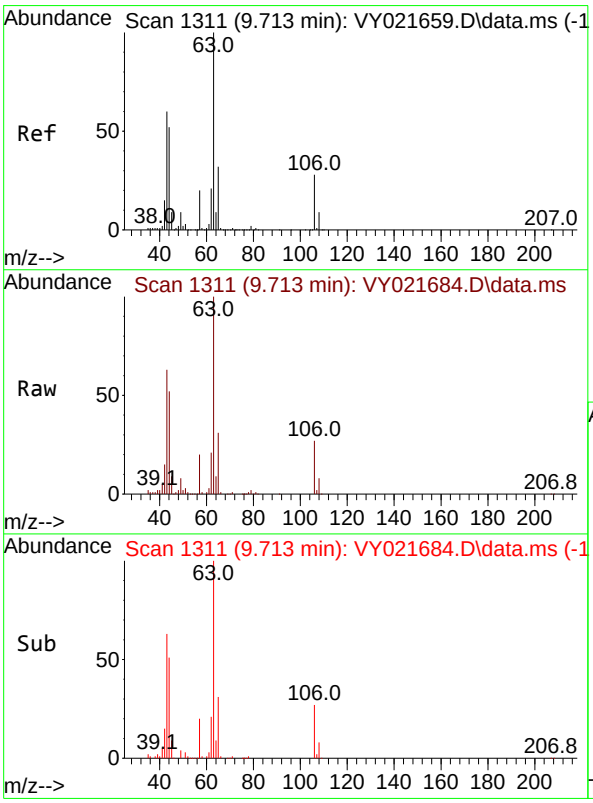
Ion	Ratio	Lower	Upper
76	100		
78	33.4	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

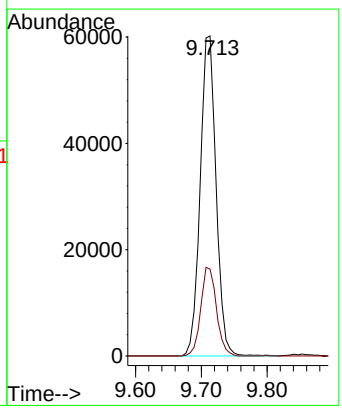
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

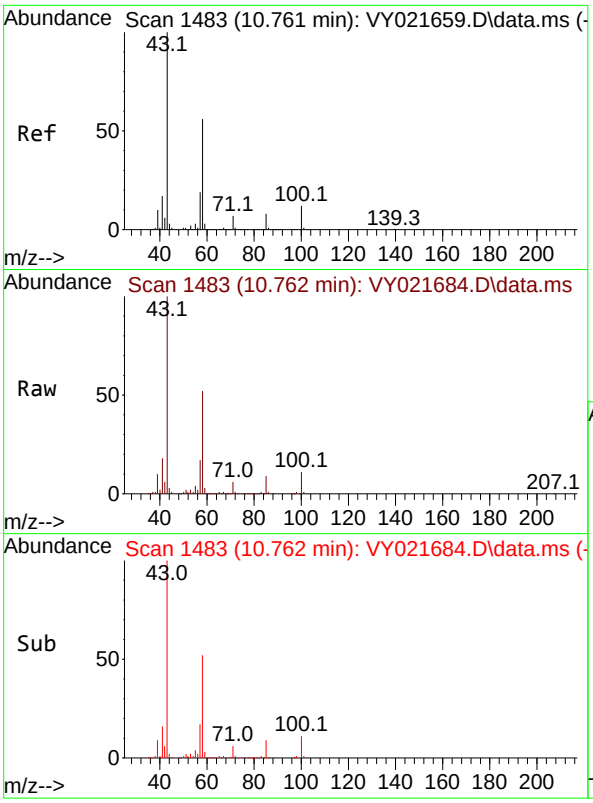


#58
2-Chloroethyl Vinyl ether
Concen: 93.583 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 63 Resp: 101258

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.4	33.6





#59
2-Hexanone
Concen: 89.278 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

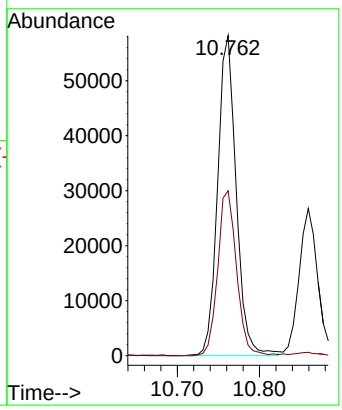
Tgt Ion: 43 Resp: 9143

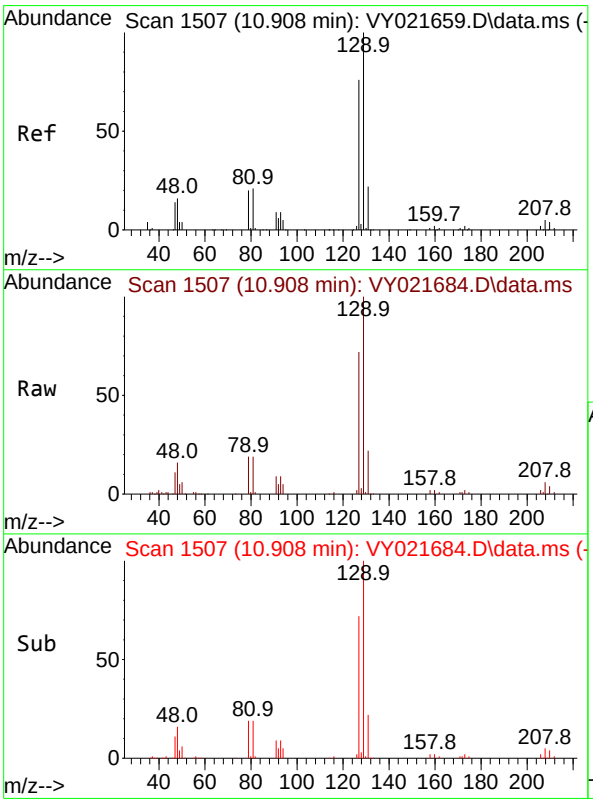
Ion	Ratio	Lower	Upper
43	100		
58	52.3	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

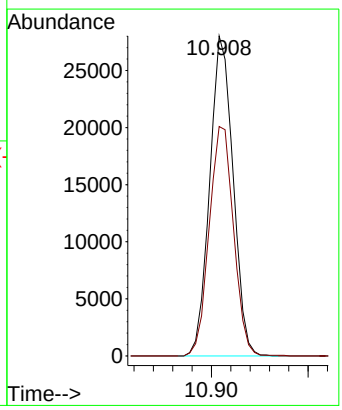


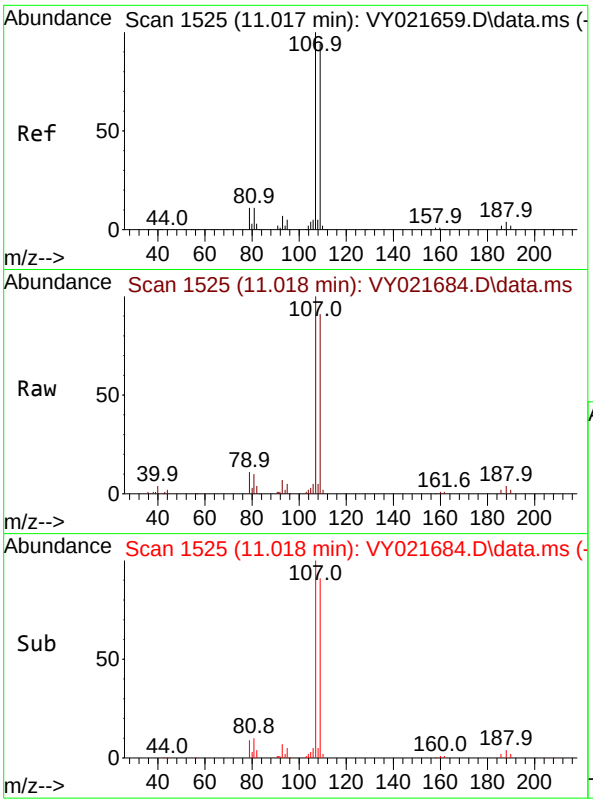


#60
Dibromochloromethane
Concen: 19.748 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:129 Resp: 46836

Ion	Ratio	Lower	Upper
129	100		
127	74.9	38.6	115.7





#61
1,2-Dibromoethane
Concen: 19.082 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

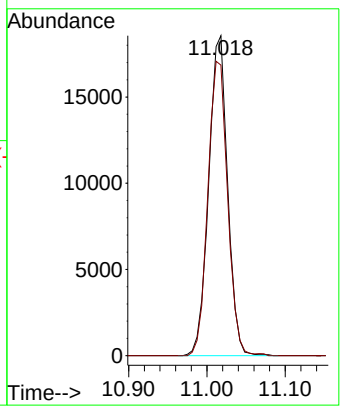
Tgt Ion:107 Resp: 3109

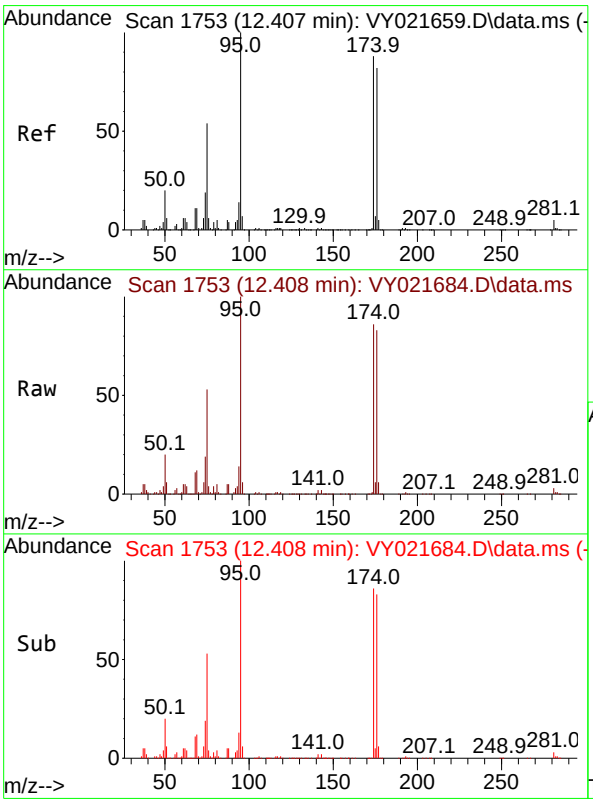
Ion	Ratio	Lower	Upper
107	100		
109	95.8	74.4	111.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

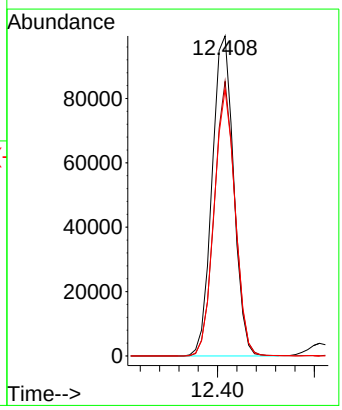


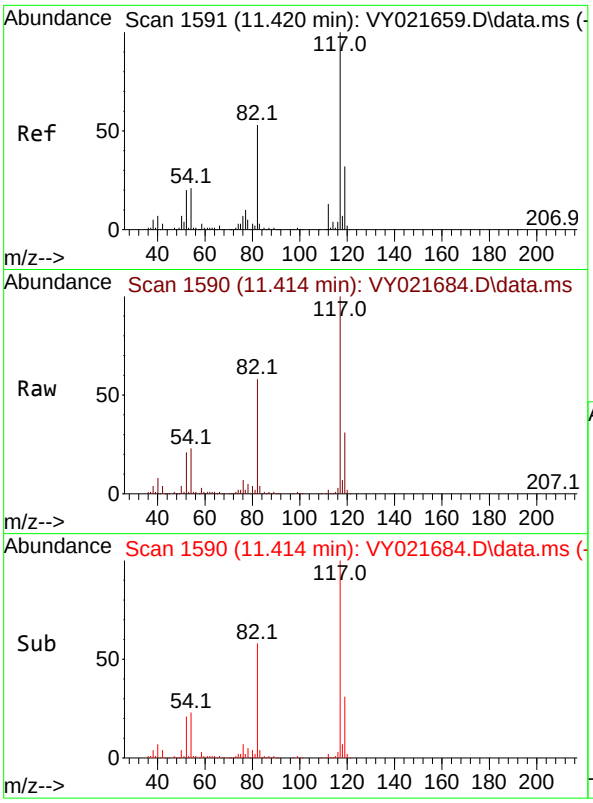


#62
4-Bromofluorobenzene
Concen: 55.078 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 95 Resp: 153736

Ion	Ratio	Lower	Upper
95	100		
174	82.1	0.0	170.8
176	81.3	0.0	162.0

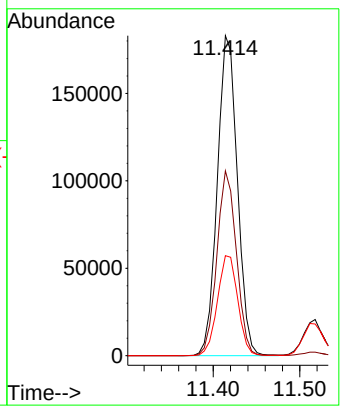




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:117 Resp: 29430

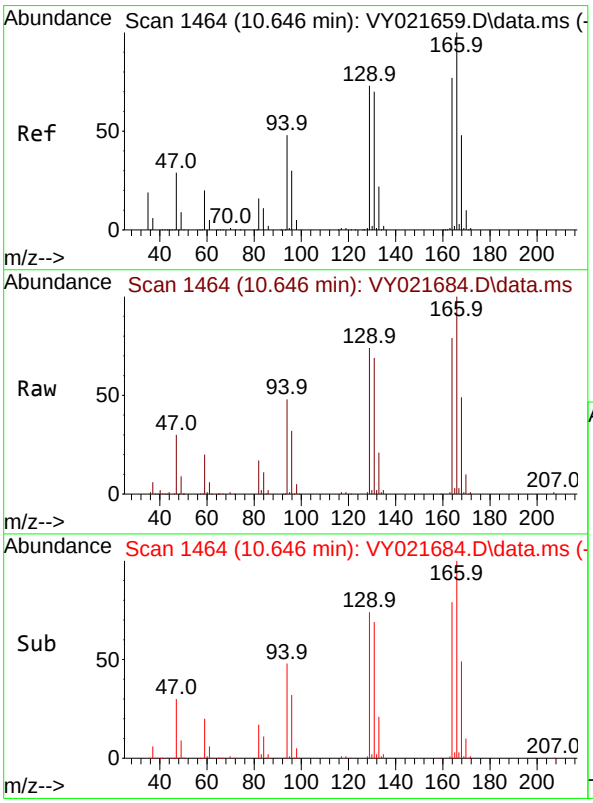
Ion	Ratio	Lower	Upper
117	100		
82	57.7	42.8	64.2
119	31.3	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

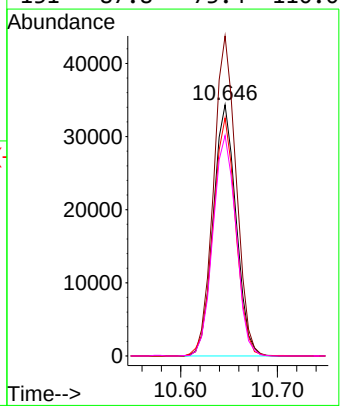
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

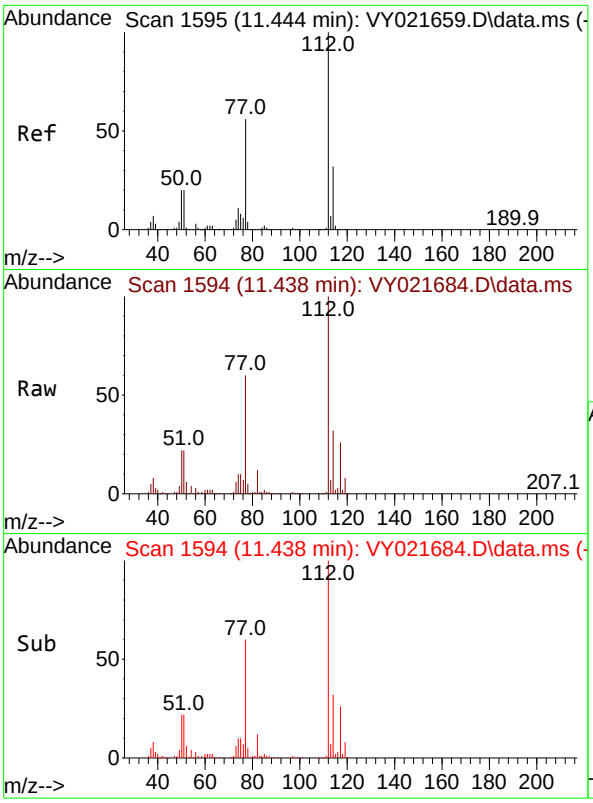


#64
Tetrachloroethene
Concen: 20.935 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:164 Resp: 56113

Ion	Ratio	Lower	Upper
164	100		
166	127.4	104.6	156.8
129	94.8	76.6	114.8
131	87.8	73.4	110.0

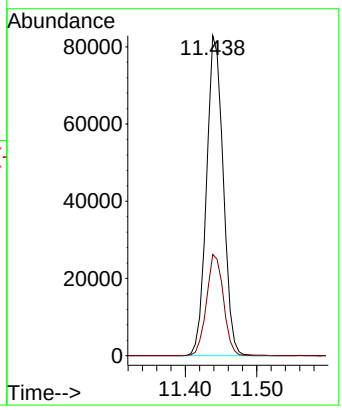




#65
Chlorobenzene
Concen: 19.898 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:112 Resp: 13423

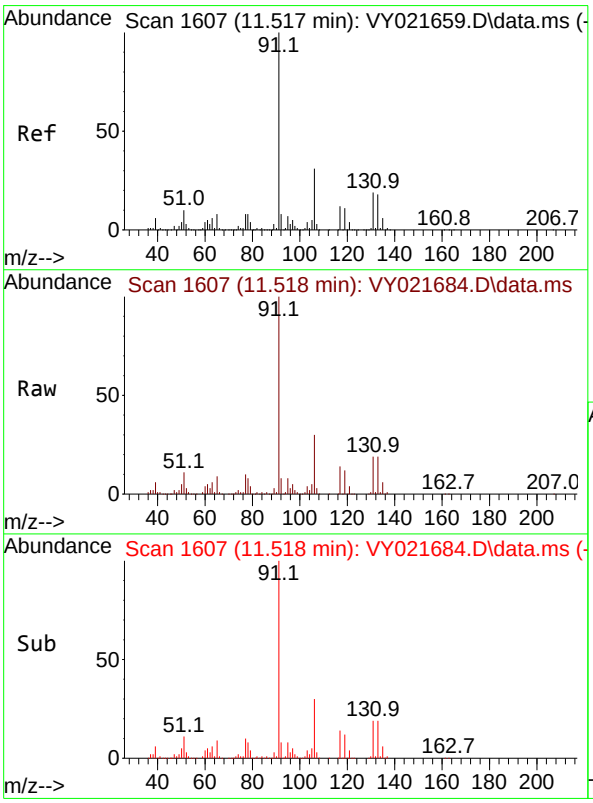
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

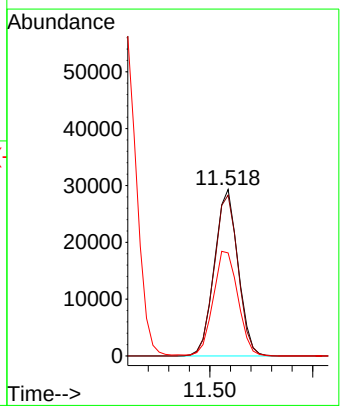
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

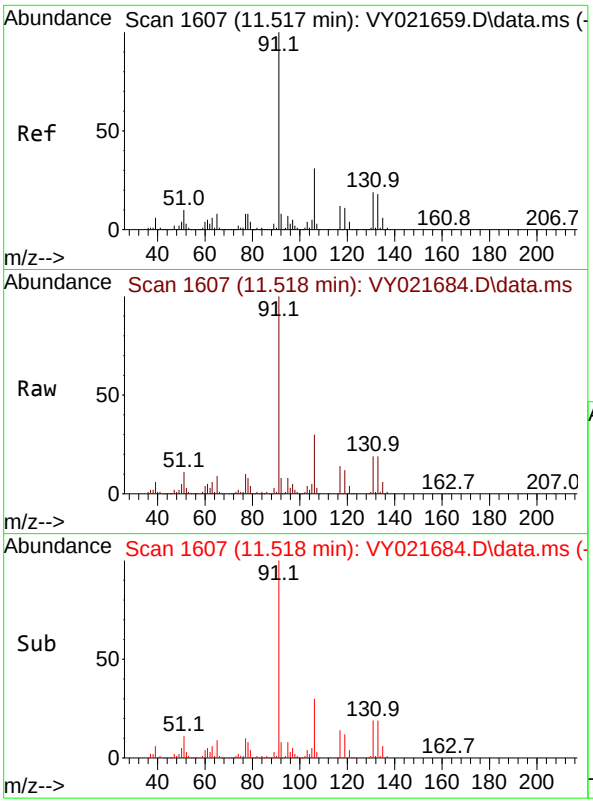


#66
1,1,1,2-Tetrachloroethane
Concen: 19.532 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:131 Resp: 46751

Ion	Ratio	Lower	Upper
131	100		
133	97.8	47.3	141.8
119	65.8	31.6	95.0

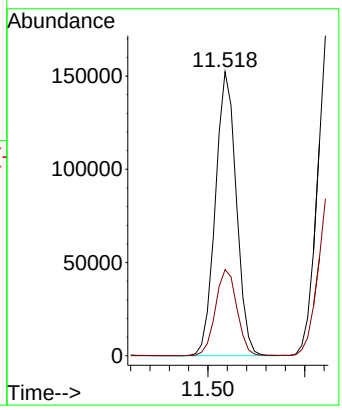




#67
Ethyl Benzene
Concen: 19.773 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 91 Resp: 22874

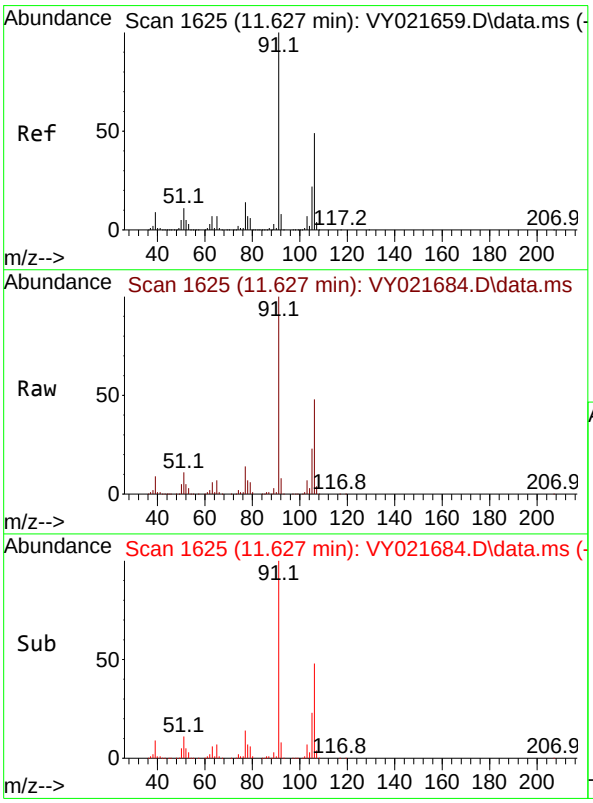
Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

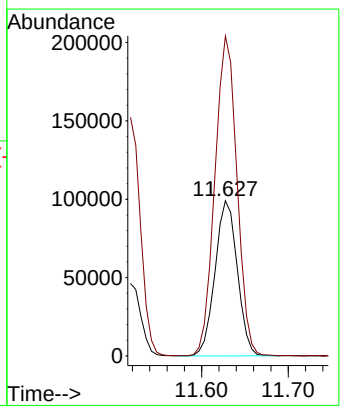
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

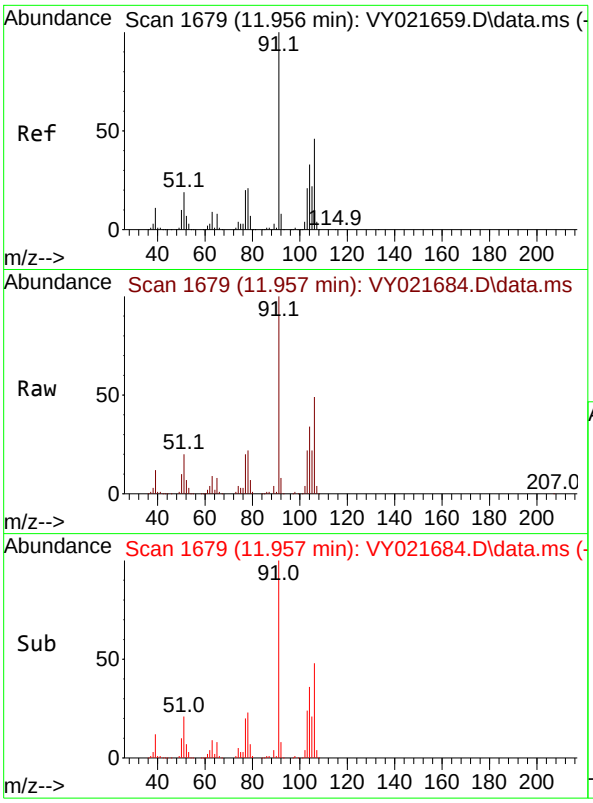


#68
m/p-Xylenes
Concen: 39.963 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:106 Resp: 177031

Ion	Ratio	Lower	Upper
106	100		
91	204.4	162.4	243.6

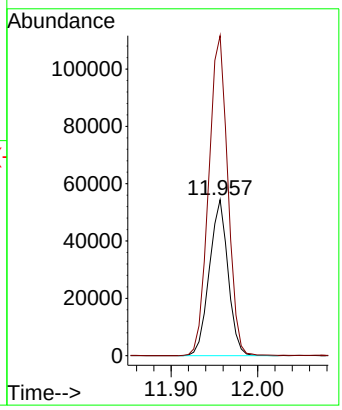




#69
o-Xylene
Concen: 19.935 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:106 Resp: 8151

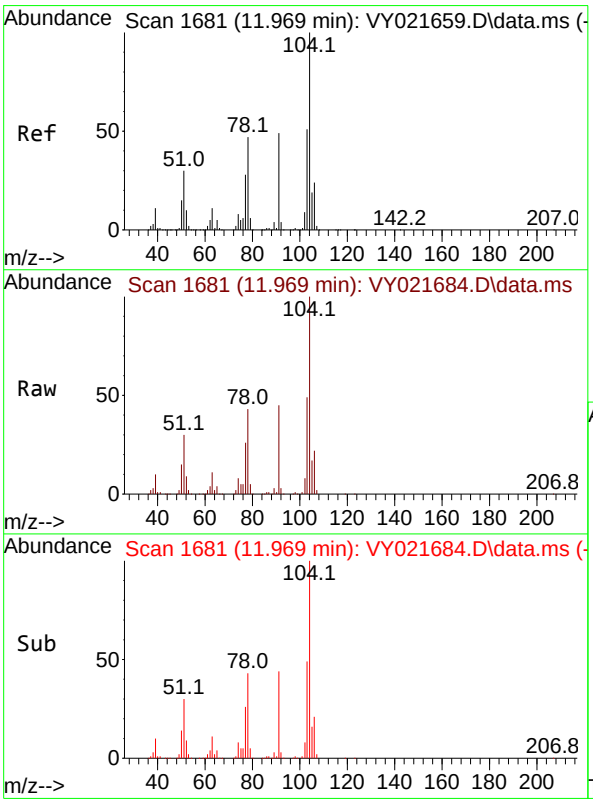
Ion	Ratio	Lower	Upper
106	100		
91	209.9	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

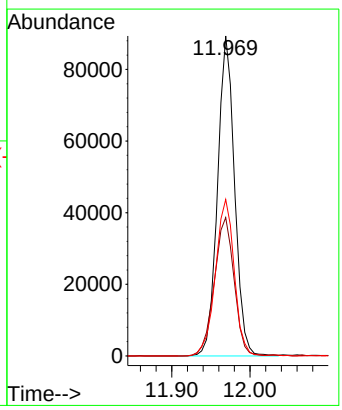
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

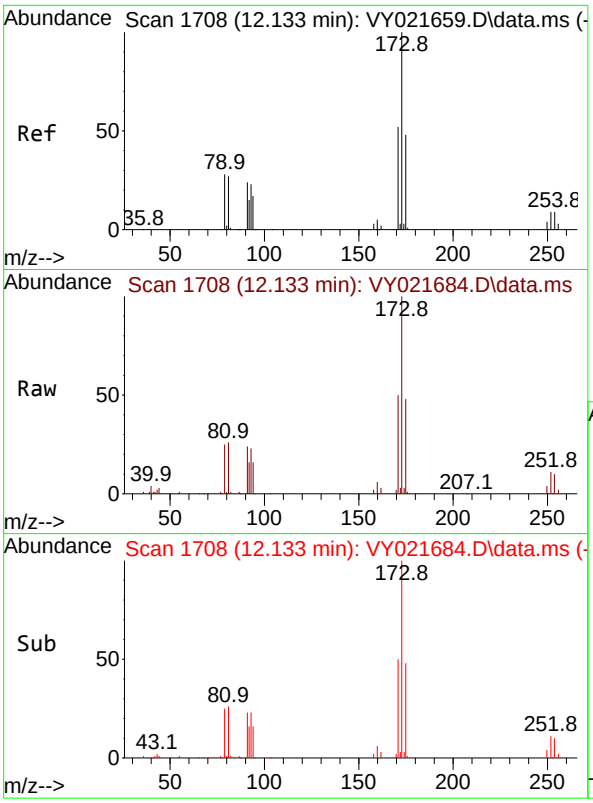


#70
Styrene
Concen: 19.866 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:104 Resp: 135444

Ion	Ratio	Lower	Upper
104	100		
78	50.1	40.8	61.2
103	54.1	44.2	66.2

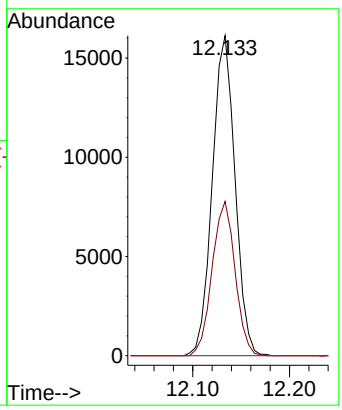




#71
Bromoform
Concen: 19.221 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:173 Resp: 2624

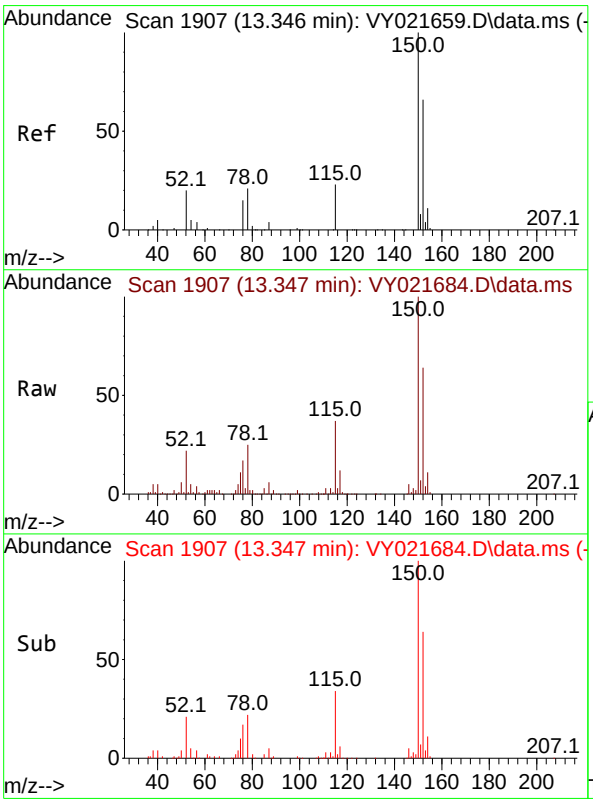
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

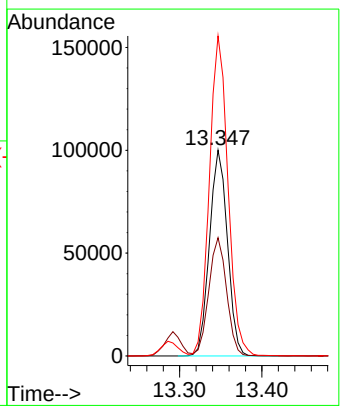
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

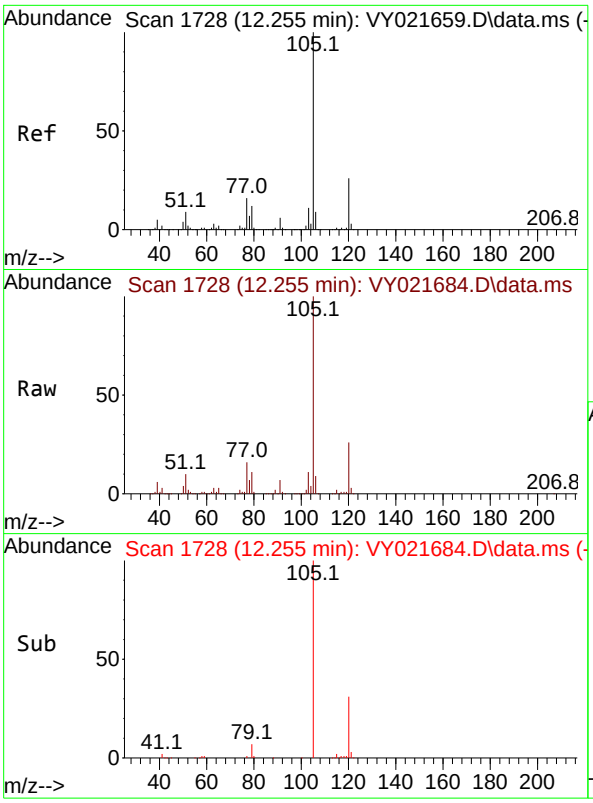


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:152 Resp: 151928

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.8	86.5
150	161.0	0.0	348.4

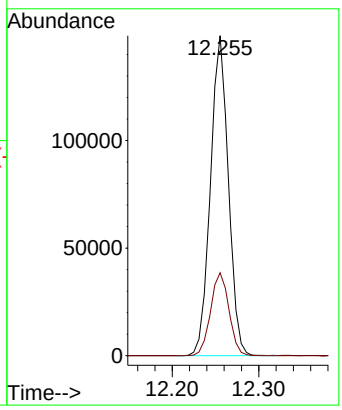




#73
Isopropylbenzene
Concen: 18.937 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:105 Resp: 21368

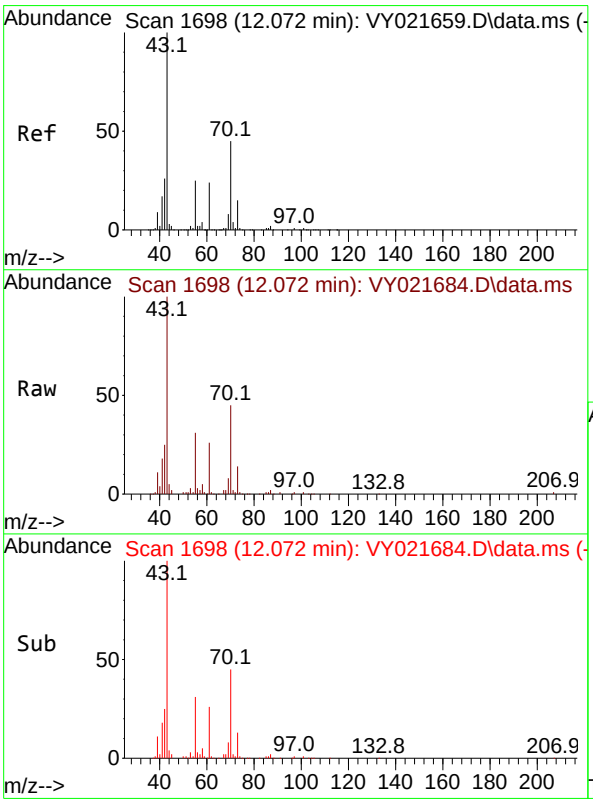
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

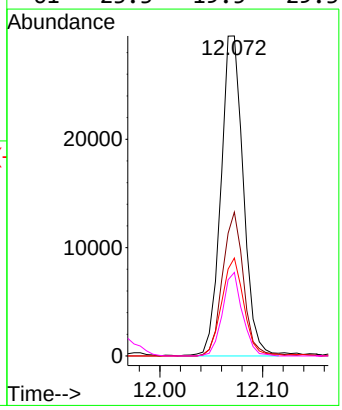
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

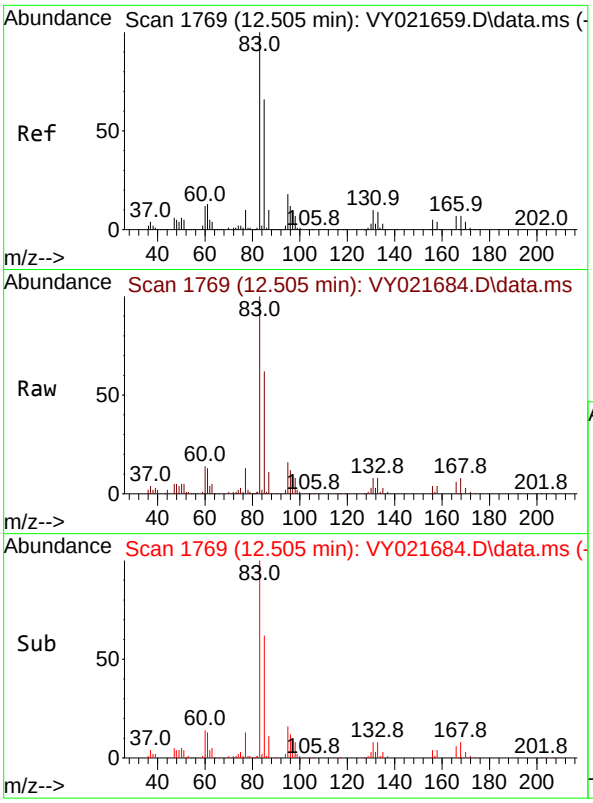


#74
N-amyl acetate
Concen: 16.908 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 43 Resp: 44777

Ion	Ratio	Lower	Upper
43	100		
70	42.2	34.7	52.1
55	30.2	21.2	31.8
61	23.3	19.5	29.3

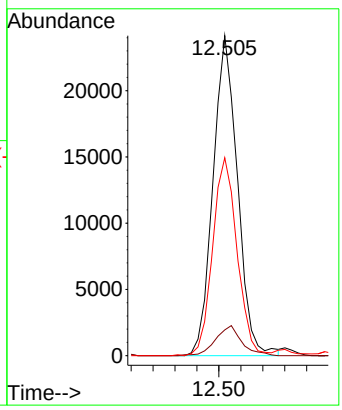




#75
1,1,2,2-Tetrachloroethane
Concen: 18.440 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 83 Resp: 3741

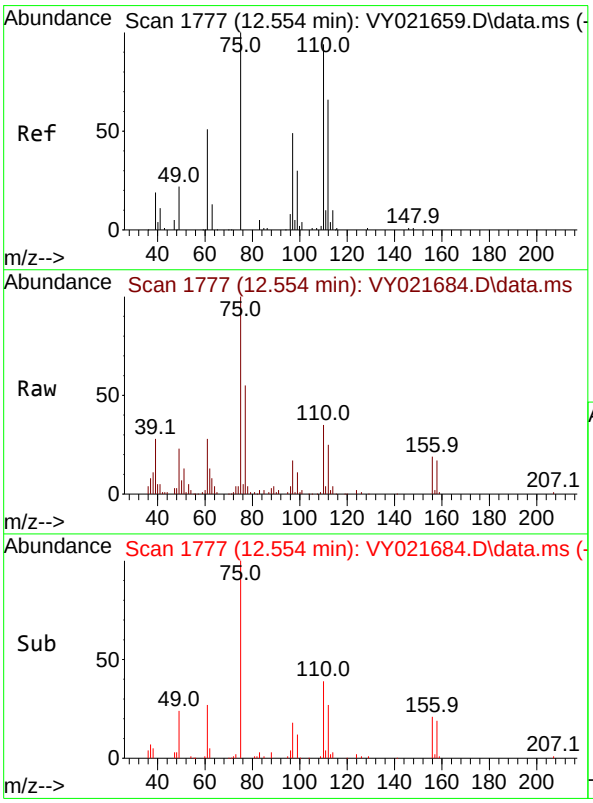
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.3
85	61.9	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

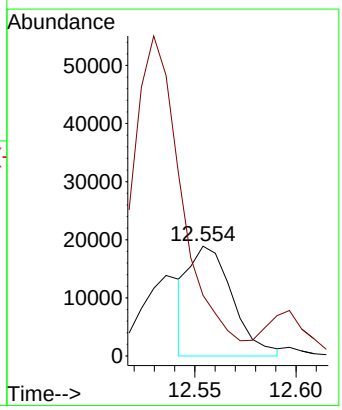
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

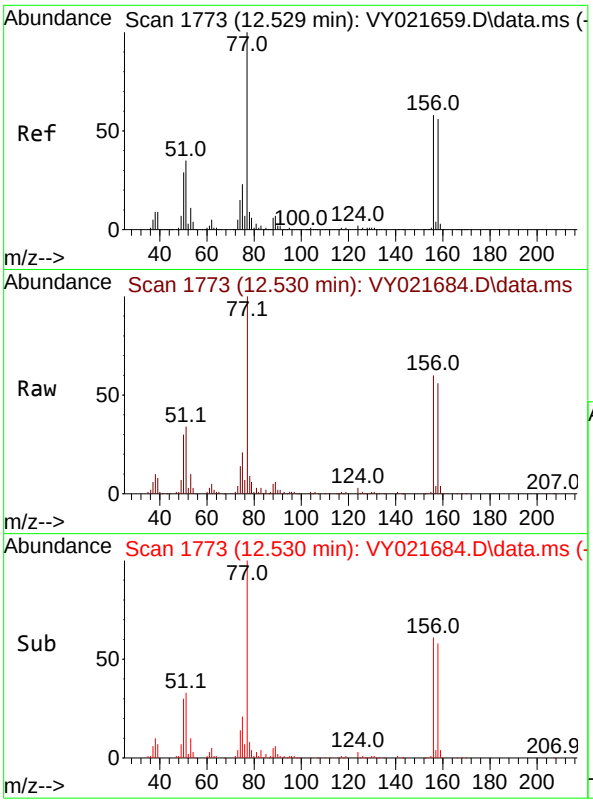


#76
1,2,3-Trichloropropane
Concen: 18.681 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 75 Resp: 28133

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

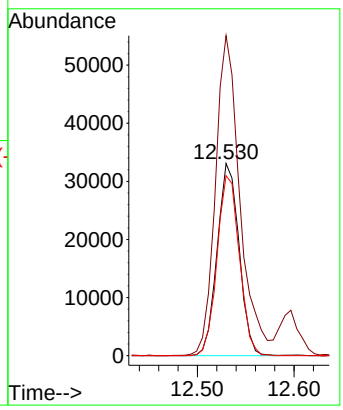




#77
Bromobenzene
Concen: 19.191 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:156 Resp: 5199

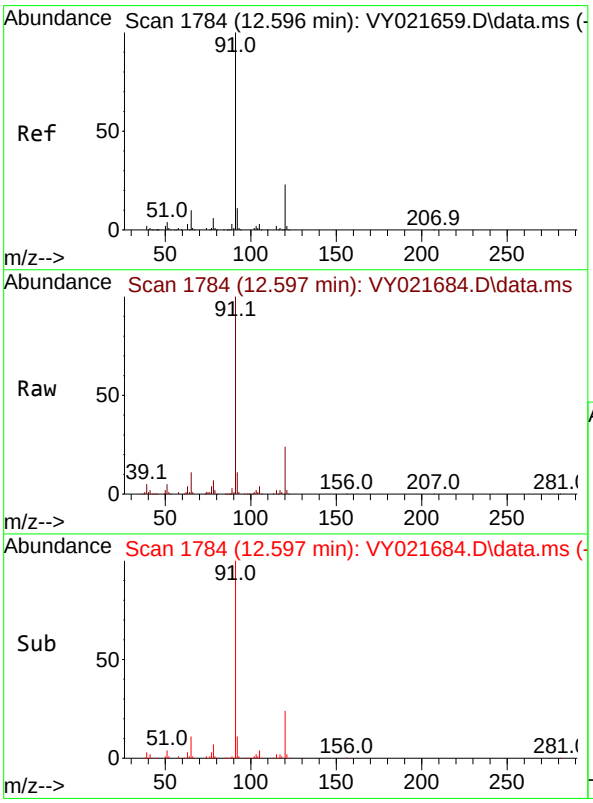
Ion	Ratio	Lower	Upper
156	100		
77	185.0	92.8	278.3
158	95.3	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

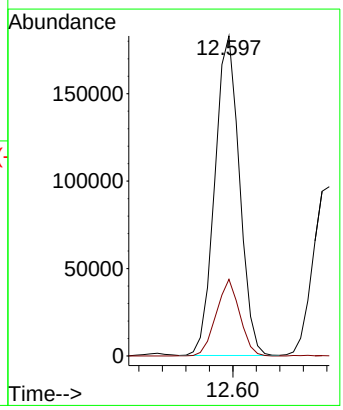
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

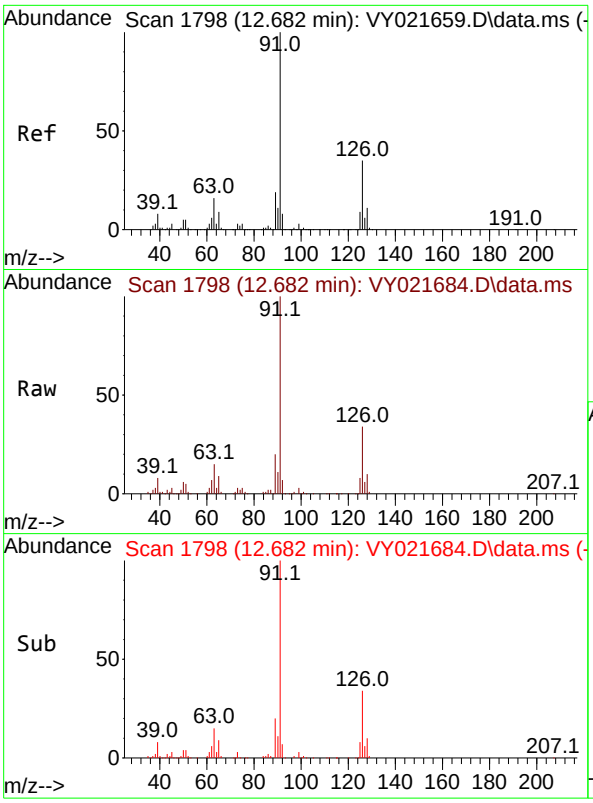


#78
n-propylbenzene
Concen: 19.666 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 91 Resp: 266802

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.3	33.9

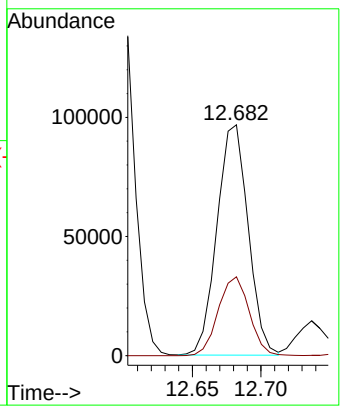




#79
2-Chlorotoluene
Concen: 19.442 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 91 Resp: 15319

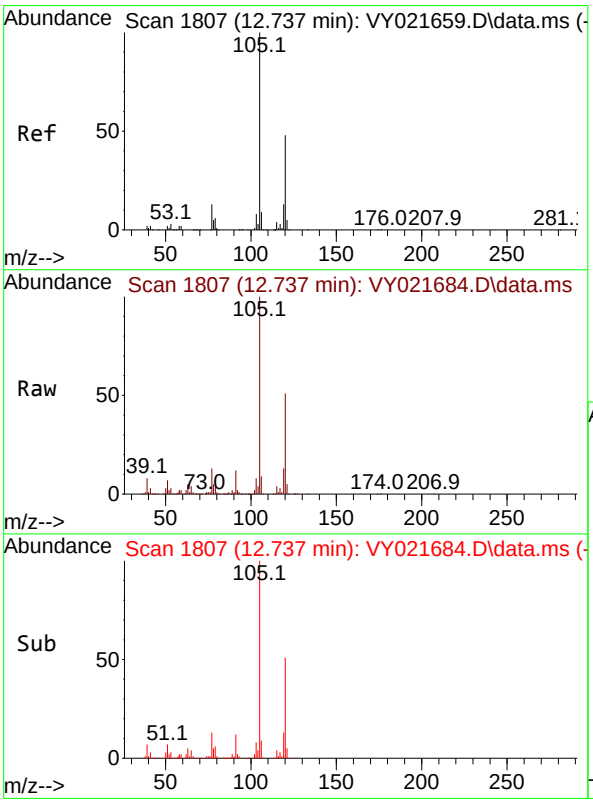
Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

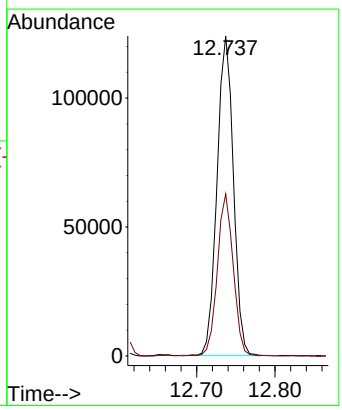
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

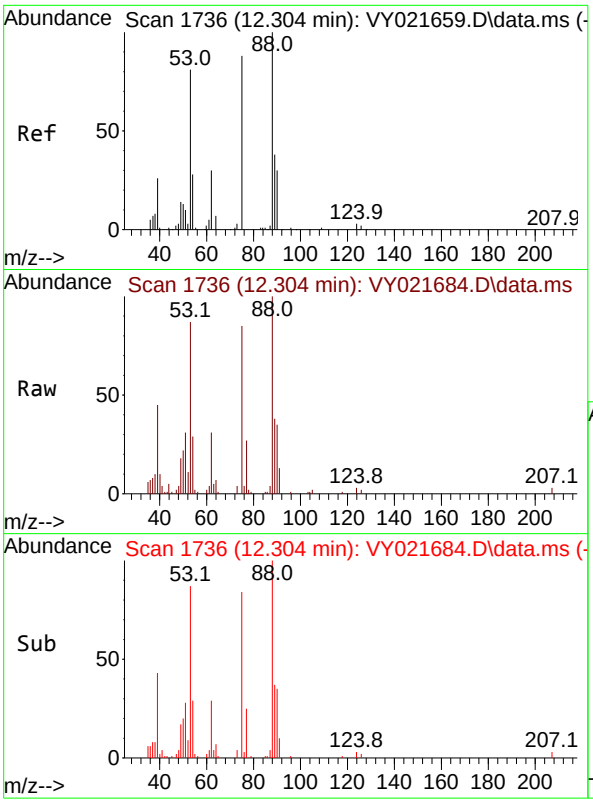


#80
1,3,5-Trimethylbenzene
Concen: 19.564 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:105 Resp: 180430

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.5	73.5

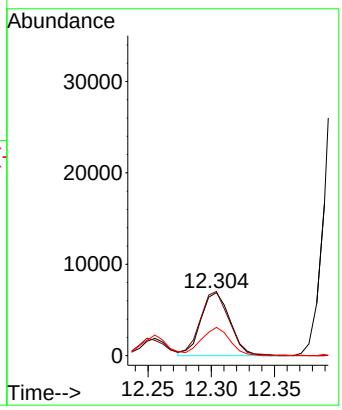




#81
trans-1,4-Dichloro-2-butene
Concen: 16.962 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 75 Resp: 1108

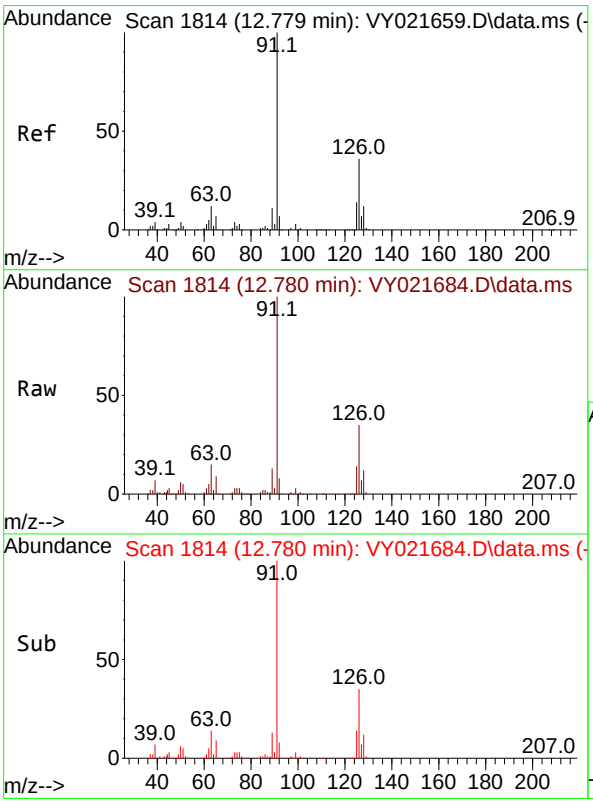
Ion	Ratio	Lower	Upper
75	100		
53	101.2	76.1	114.1
89	42.9	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

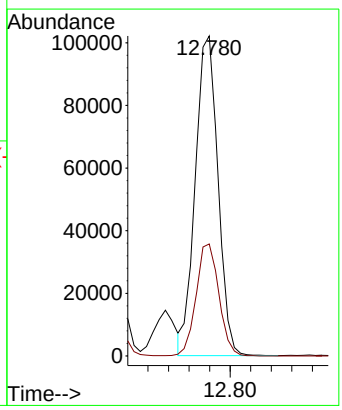
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

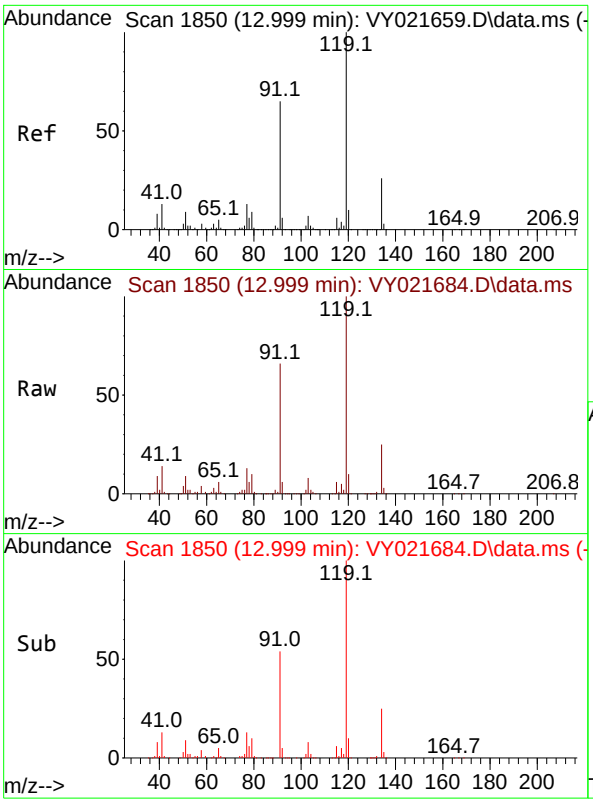


#82
4-Chlorotoluene
Concen: 19.072 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 91 Resp: 156677

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.0	50.9

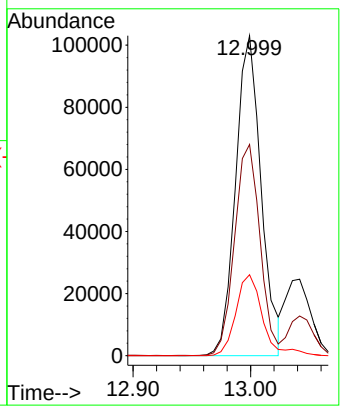




#83
tert-Butylbenzene
Concen: 18.955 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:119 Resp: 15570

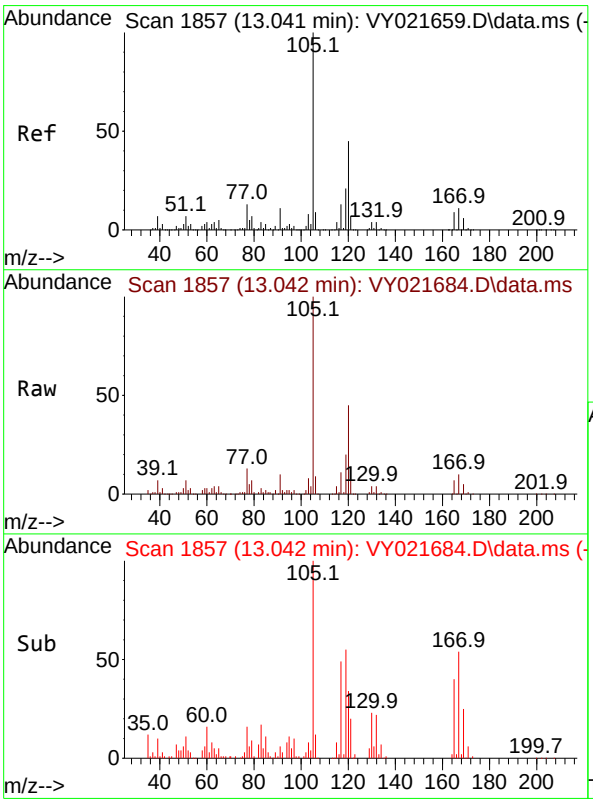
Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.6	97.7
134	26.6	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

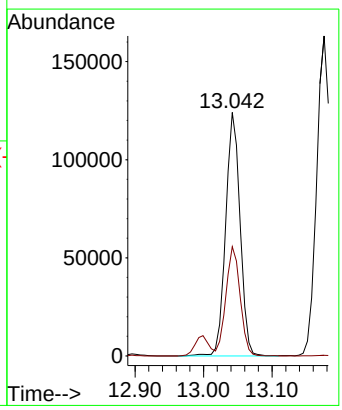
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

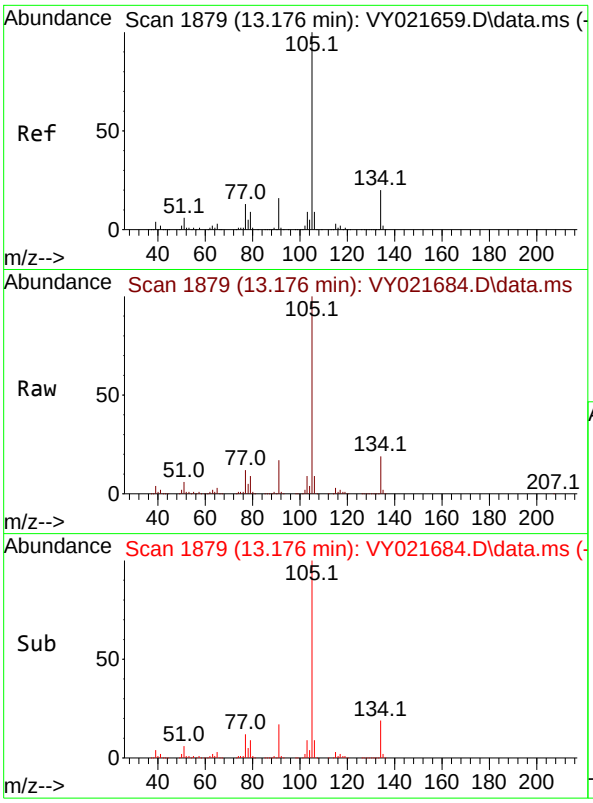


#84
1,2,4-Trimethylbenzene
Concen: 19.871 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:105 Resp: 181125

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.7	68.1

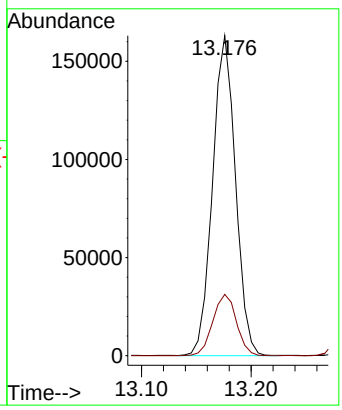




#85
sec-Butylbenzene
Concen: 19.730 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:105 Resp: 23685

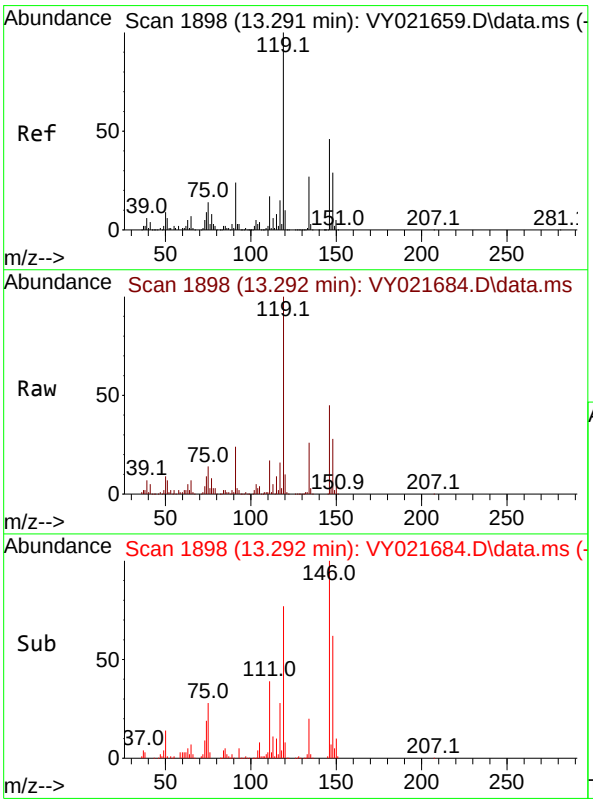
Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

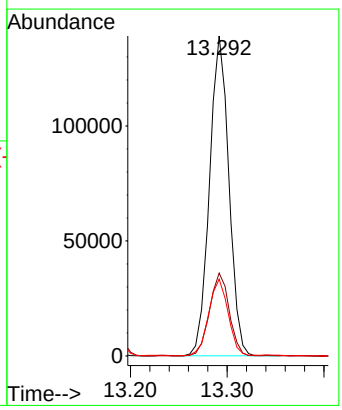
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

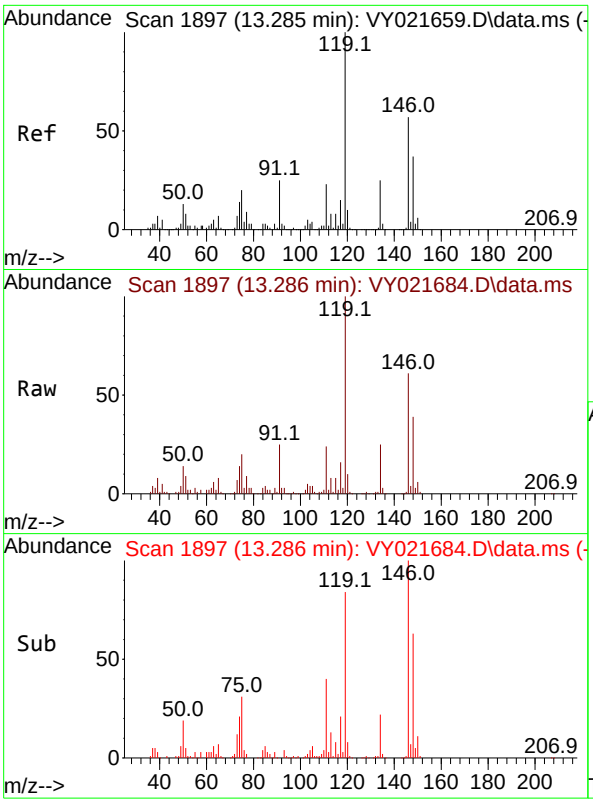


#86
p-Isopropyltoluene
Concen: 19.478 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:119 Resp: 193258

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.5
91	24.1	12.0	36.0

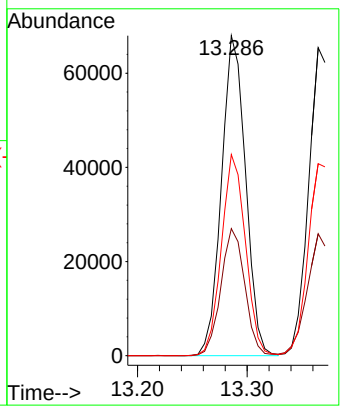




#87
1,3-Dichlorobenzene
Concen: 19.474 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:146 Resp: 10395

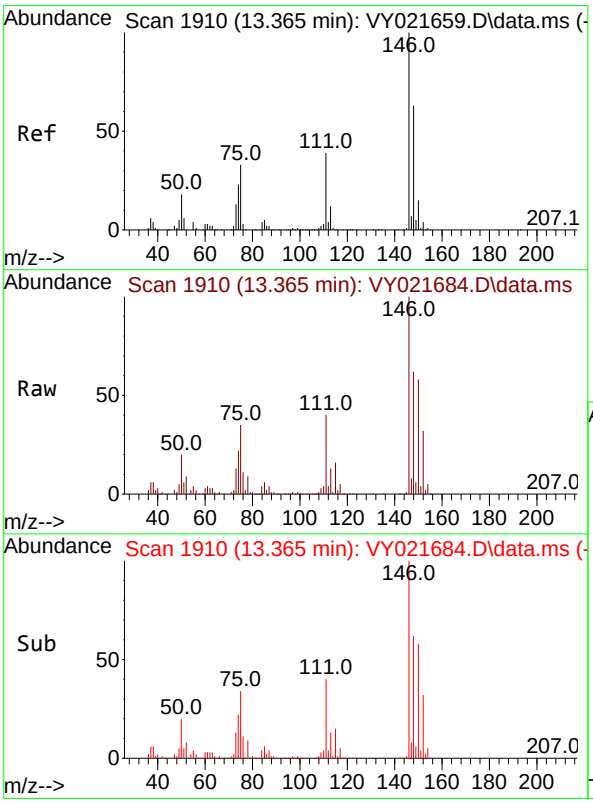
Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.0	60.0
148	62.7	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

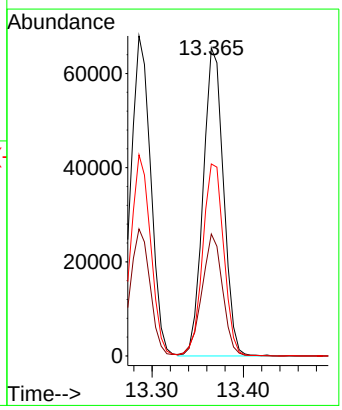
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

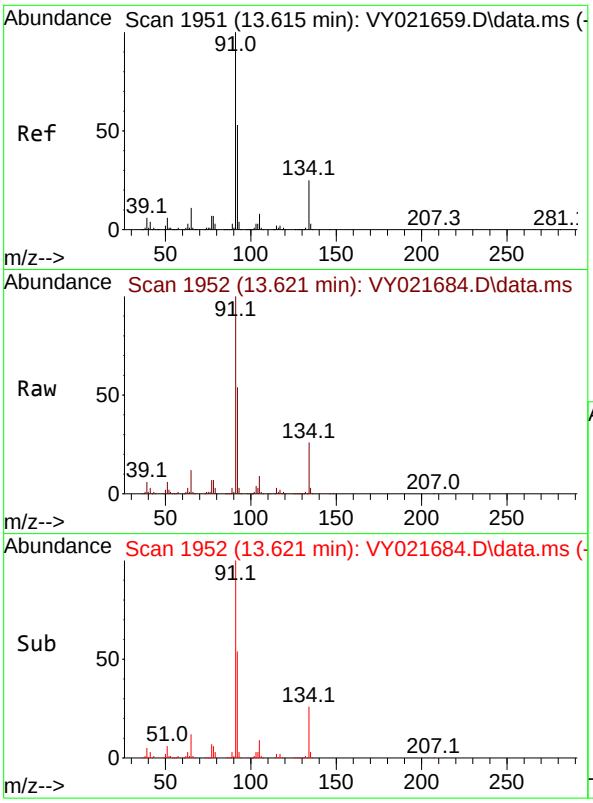


#88
1,4-Dichlorobenzene
Concen: 19.145 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:146 Resp: 100969

Ion	Ratio	Lower	Upper
146	100		
111	40.4	19.1	57.1
148	64.5	31.5	94.5

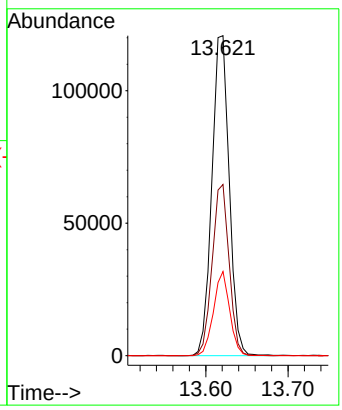




#89
n-Butylbenzene
Concen: 19.351 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 91 Resp: 17756

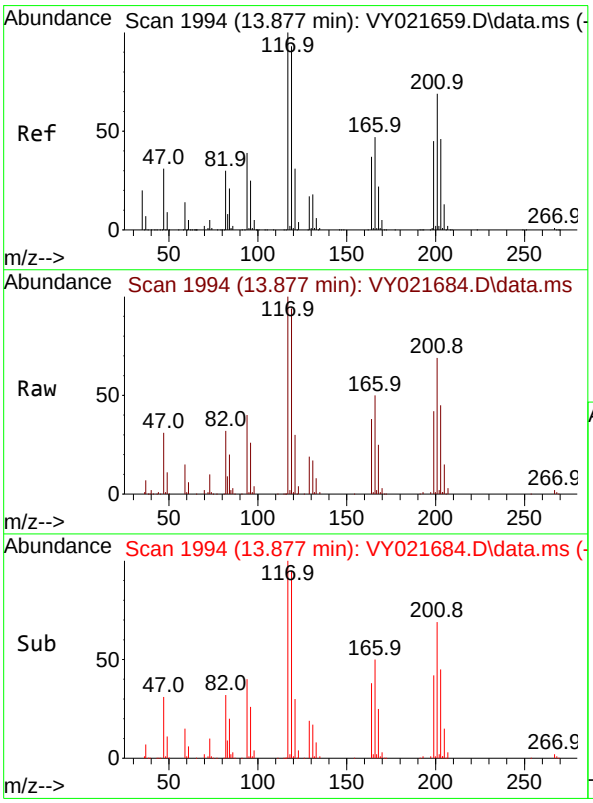
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.4	79.2
134	24.5	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

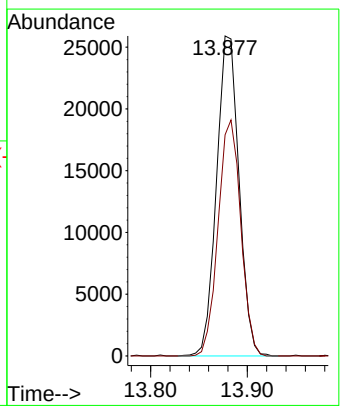
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

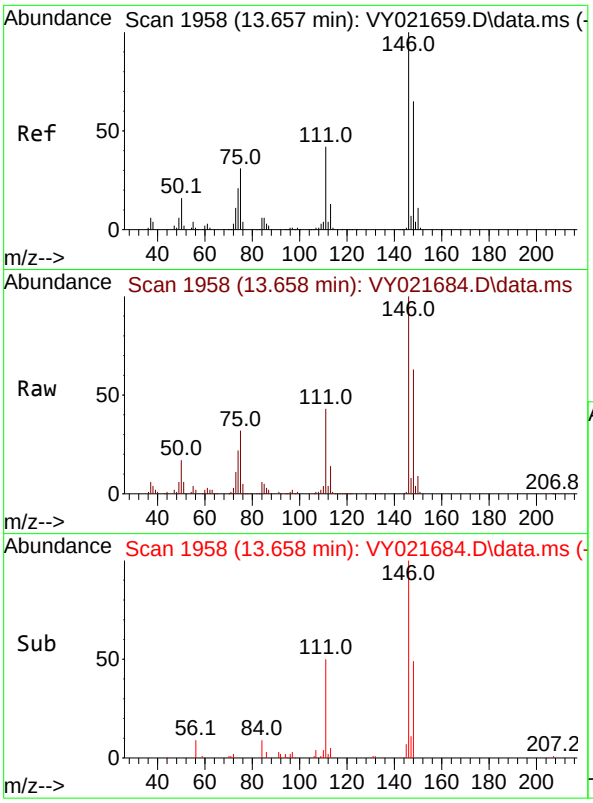


#90
Hexachloroethane
Concen: 19.216 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:117 Resp: 41780

Ion	Ratio	Lower	Upper
117	100		
201	74.3	37.4	112.1

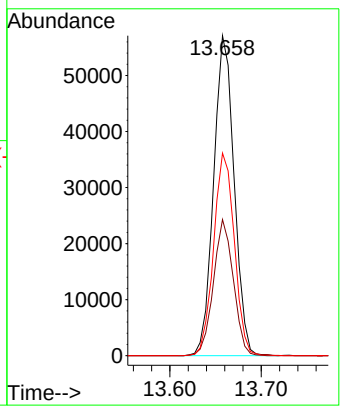




#91
1,2-Dichlorobenzene
Concen: 19.148 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:146 Resp: 8897

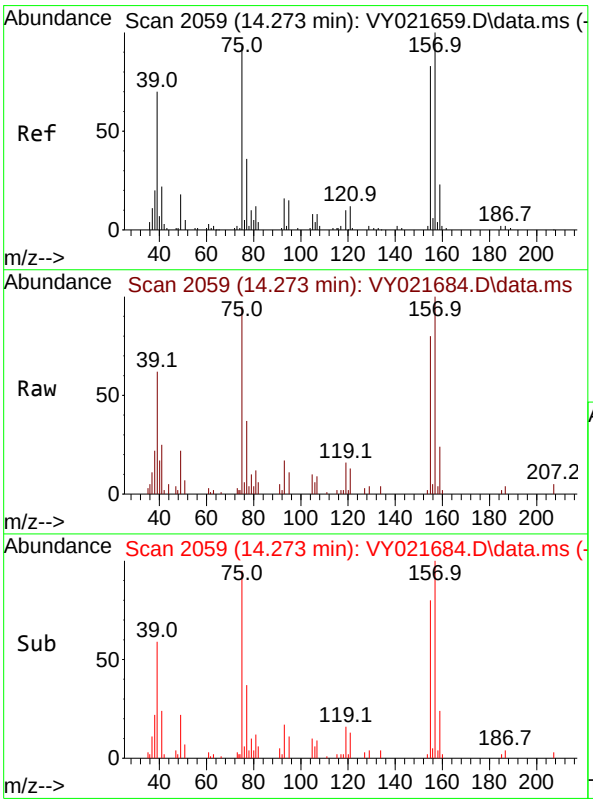
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.7	62.1
148	64.0	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

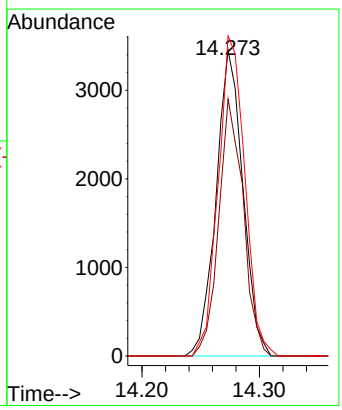
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

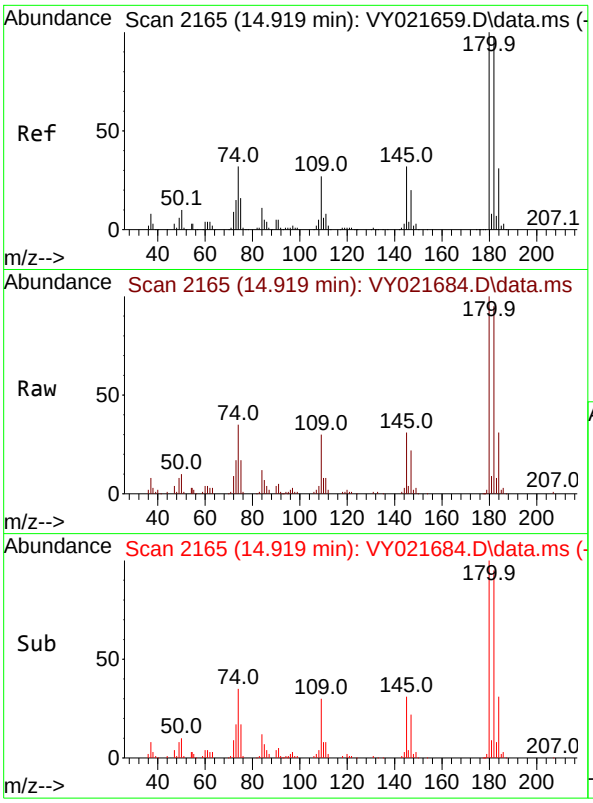


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.443 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion: 75 Resp: 5485

Ion	Ratio	Lower	Upper
75	100		
155	76.7	43.0	128.8
157	104.0	54.0	162.0

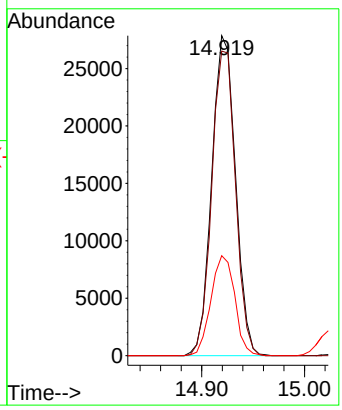




#93
1,2,4-Trichlorobenzene
Concen: 17.752 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:180 Resp: 4473

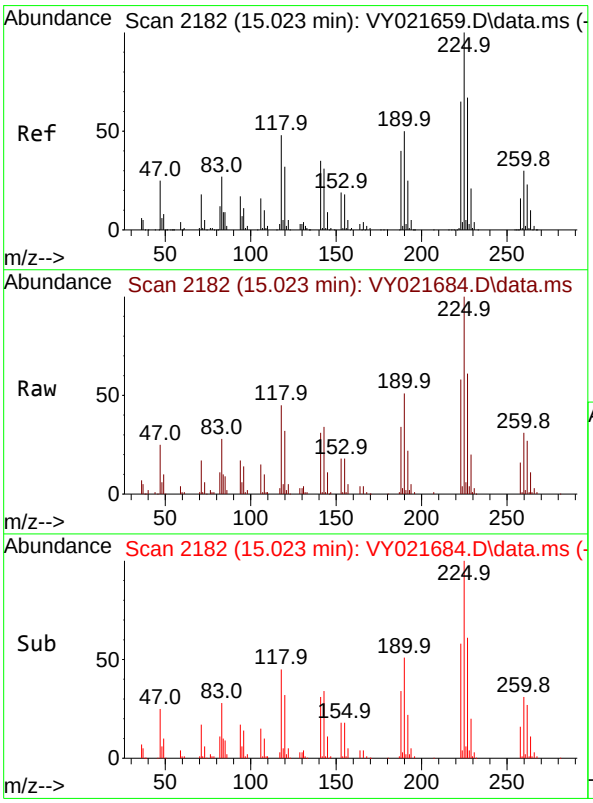
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.6
145	31.4	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

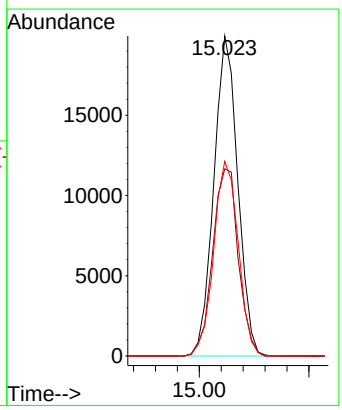
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025

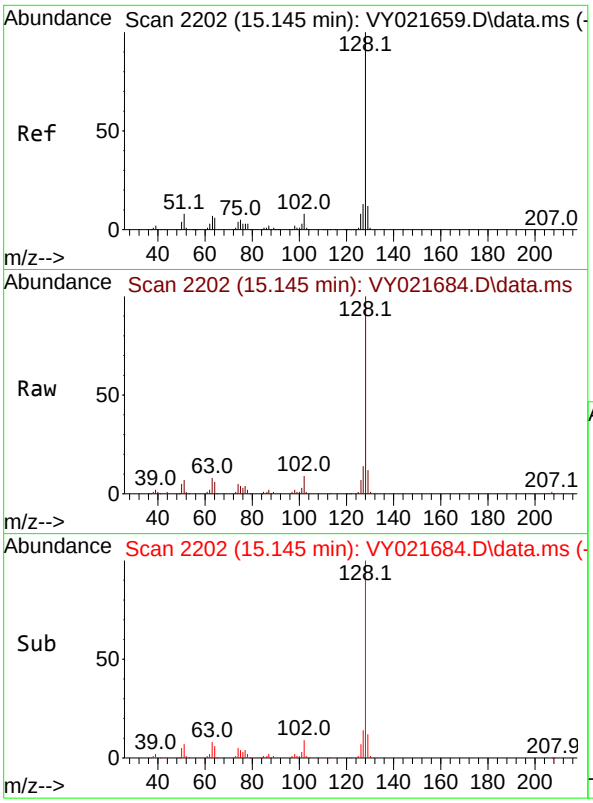


#94
Hexachlorobutadiene
Concen: 19.204 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:225 Resp: 30223

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.9	95.7
227	62.7	32.4	97.0

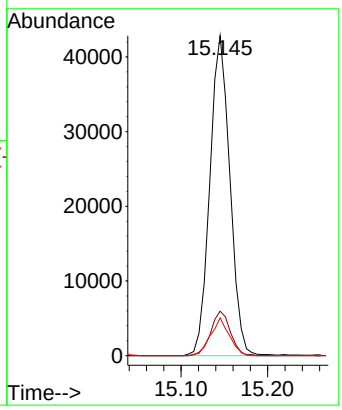




#95
Naphthalene
Concen: 16.511 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:128 Resp: 6896

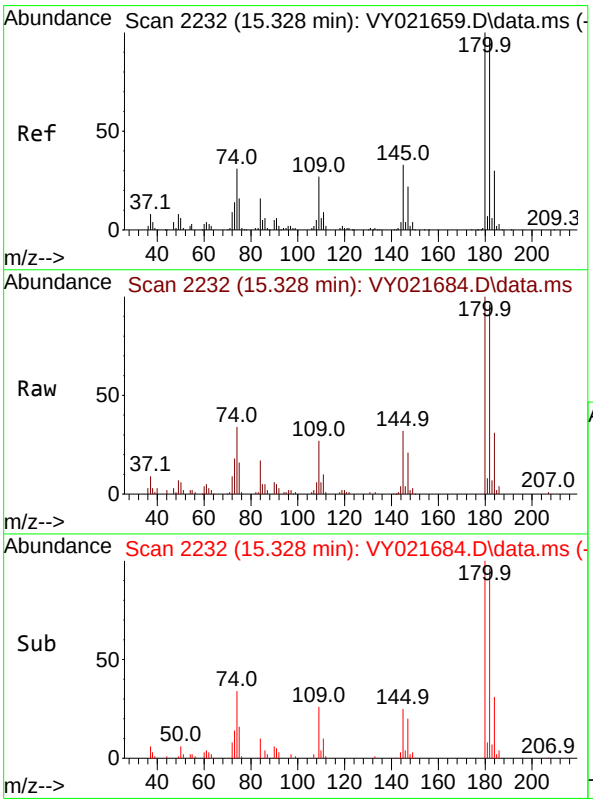
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.8	16.2
129	11.1	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0328SBS01

Manual Integrations
APPROVED

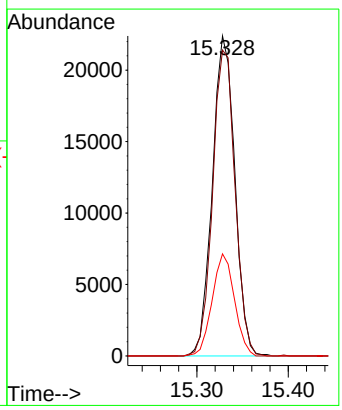
Reviewed By :Mahesh Dadoda 03/31/2025
Supervised By :Semsettin Yesilyurt 03/31/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.778 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021684.D
Acq: 28 Mar 2025 11:55

Tgt Ion:180 Resp: 38202

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.5
145	31.7	15.9	47.7



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0401SBS01	SDG No.:	Q1664
Lab Sample ID:	VY0401SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021733.D	1		04/01/25 11:30	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	18.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.7		1.00	5.00	ug/Kg
67-64-1	Acetone	94.3		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	93.7		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	19.4		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	19.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.7		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	94.6		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0401SBS01	SDG No.:	Q1664
Lab Sample ID:	VY0401SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021733.D	1		04/01/25 11:30	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.0		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	94.9		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.5		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.8		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.7		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.3		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		70 - 134	108%	SPK: 50
2037-26-5	Toluene-d8	54.9		74 - 123	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		38 - 136	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	262000	7.707			
540-36-3	1,4-Difluorobenzene	408000	8.616			
3114-55-4	Chlorobenzene-d5	358000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	179000	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VY0401SBS01	SDG No.:	Q1664
Lab Sample ID:	VY0401SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021733.D	1		04/01/25 11:30	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021733.D
Acq On : 01 Apr 2025 11:30
Operator : SY/MD
Sample : VY0401SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 03:22:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	262284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	407591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	358349	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	179014	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	148566	52.279	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.560%			
35) Dibromofluoromethane	7.634	113	143137	54.137	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.280%			
50) Toluene-d8	10.103	98	552526	54.931	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.860%			
62) 4-Bromofluorobenzene	12.408	95	184811	54.320	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	52708	19.389	ug/l	98
3) Chloromethane	2.068	50	69229	18.110	ug/l	98
4) Vinyl Chloride	2.202	62	79314	18.347	ug/l	100
5) Bromomethane	2.586	94	58063	19.693	ug/l	99
6) Chloroethane	2.732	64	52067	18.406	ug/l	99
7) Trichlorofluoromethane	3.056	101	108844	19.655	ug/l	99
8) Diethyl Ether	3.452	74	29391	19.516	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.811	101	58802	20.132	ug/l	99
10) Methyl Iodide	4.000	142	57434	17.924	ug/l	99
11) Tert butyl alcohol	4.854	59	16186	87.691	ug/l	99
12) 1,1-Dichloroethene	3.787	96	54196	19.700	ug/l	91
13) Acrolein	3.647	56	25175	74.696	ug/l	100
14) Allyl chloride	4.378	41	82560	18.822	ug/l	98
15) Acrylonitrile	5.055	53	58322	92.750	ug/l	99
16) Acetone	3.866	43	54827	94.269	ug/l	93
17) Carbon Disulfide	4.104	76	168907	18.640	ug/l	97
18) Methyl Acetate	4.385	43	26825	18.610	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	130257	19.017	ug/l	98
20) Methylene Chloride	4.610	84	61724	19.315	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	60292	19.905	ug/l	98
22) Diisopropyl ether	6.018	45	178430	19.391	ug/l	98
23) Vinyl Acetate	5.957	43	500924	93.058	ug/l	97
24) 1,1-Dichloroethane	5.915	63	107840	19.600	ug/l	99
25) 2-Butanone	6.890	43	77870	93.740	ug/l	100
26) 2,2-Dichloropropane	6.884	77	94979	19.406	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	66817	19.615	ug/l	98
28) Bromochloromethane	7.244	49	44742	19.282	ug/l	99
29) Tetrahydrofuran	7.256	42	47928	89.647	ug/l	96
30) Chloroform	7.415	83	111174	19.427	ug/l	92
31) Cyclohexane	7.695	56	94288	18.799	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	102527	19.822	ug/l	99
36) 1,1-Dichloropropene	7.835	75	79309	19.693	ug/l	98
37) Ethyl Acetate	6.982	43	36034	18.959	ug/l	99
38) Carbon Tetrachloride	7.811	117	93478	20.266	ug/l	96
39) Methylcyclohexane	9.109	83	94387	19.619	ug/l	97
40) Benzene	8.079	78	240138	19.911	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021733.D
Acq On : 01 Apr 2025 11:30
Operator : SY/MD
Sample : VY0401SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 03:22:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	18293m	18.123	ug/l		
42) 1,2-Dichloroethane	8.158	62	66624	19.595	ug/l		100
43) Isopropyl Acetate	8.195	43	69114	19.189	ug/l	#	86
44) Trichloroethene	8.865	130	63043	20.516	ug/l		95
45) 1,2-Dichloropropane	9.140	63	57479	20.134	ug/l		99
46) Dibromomethane	9.225	93	32300	19.632	ug/l		97
47) Bromodichloromethane	9.420	83	84013	19.707	ug/l		99
48) Methyl methacrylate	9.219	41	30905	18.696	ug/l		100
49) 1,4-Dioxane	9.231	88	7023	398.466	ug/l		96
51) 4-Methyl-2-Pentanone	9.999	43	177237	94.559	ug/l		99
52) Toluene	10.170	92	150299	19.974	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	73353	19.371	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	87090	19.495	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	42257	19.958	ug/l		98
56) Ethyl methacrylate	10.438	69	50856	18.811	ug/l		98
57) 1,3-Dichloropropane	10.719	76	71498	19.553	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	130109	98.652	ug/l		100
59) 2-Hexanone	10.761	43	118439	94.881	ug/l		100
60) Dibromochloromethane	10.914	129	57761	19.981	ug/l		99
61) 1,2-Dibromoethane	11.011	107	39631	19.954	ug/l		98
64) Tetrachloroethene	10.646	164	67787	20.770	ug/l		96
65) Chlorobenzene	11.444	112	163162	19.863	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	57780	19.825	ug/l		99
67) Ethyl Benzene	11.517	91	279312	19.829	ug/l		100
68) m/p-Xylenes	11.627	106	213197	39.525	ug/l		99
69) o-Xylene	11.956	106	99393	19.962	ug/l		99
70) Styrene	11.969	104	164968	19.872	ug/l		99
71) Bromoform	12.133	173	34082	20.501	ug/l	#	99
73) Isopropylbenzene	12.255	105	263449	19.814	ug/l		100
74) N-amyl acetate	12.072	43	56258	18.029	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	44993	18.822	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	35449m	19.977	ug/l		
77) Bromobenzene	12.529	156	63312	19.832	ug/l		99
78) n-propylbenzene	12.597	91	318964	19.954	ug/l		98
79) 2-Chlorotoluene	12.682	91	185554	19.986	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	217918	20.054	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	14203	18.443	ug/l		97
82) 4-Chlorotoluene	12.779	91	193577	19.999	ug/l		99
83) tert-Butylbenzene	12.999	119	192081	19.845	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	216682	20.175	ug/l		99
85) sec-Butylbenzene	13.176	105	282492	19.971	ug/l		100
86) p-Isopropyltoluene	13.291	119	232750	19.909	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	124312	19.765	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	122507	19.714	ug/l		98
89) n-Butylbenzene	13.615	91	210873	19.504	ug/l		100
90) Hexachloroethane	13.877	117	49366	19.269	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	107999	19.725	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7455	20.121	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	57035	19.209	ug/l		99
94) Hexachlorobutadiene	15.023	225	37553	20.252	ug/l		97
95) Naphthalene	15.145	128	90494	18.388	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	48126	19.008	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021733.D
Acq On : 01 Apr 2025 11:30
Operator : SY/MD
Sample : VY0401SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:22:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

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

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

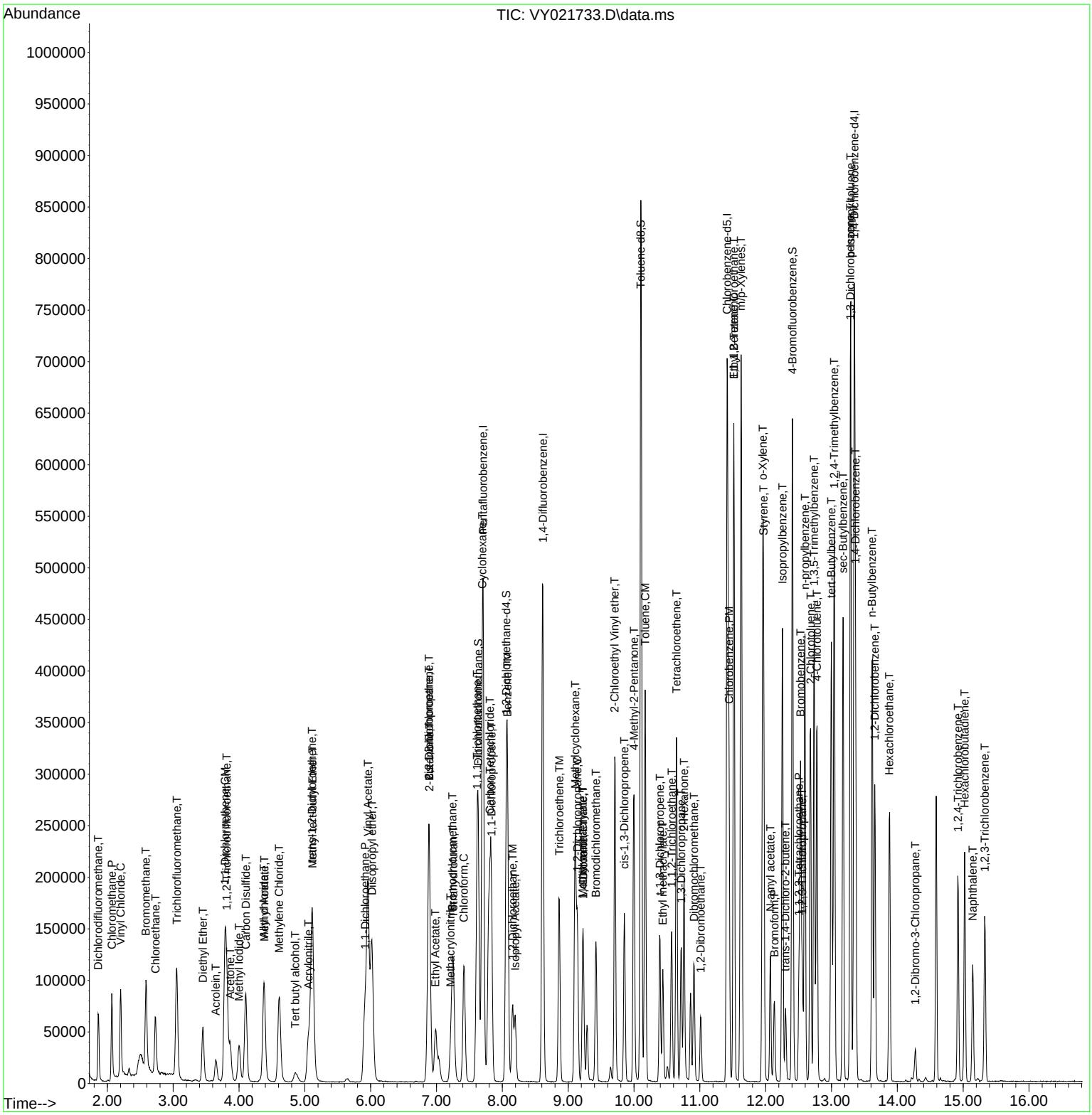
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021733.D
Acq On : 01 Apr 2025 11:30
Operator : SY/MD
Sample : VY0401SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

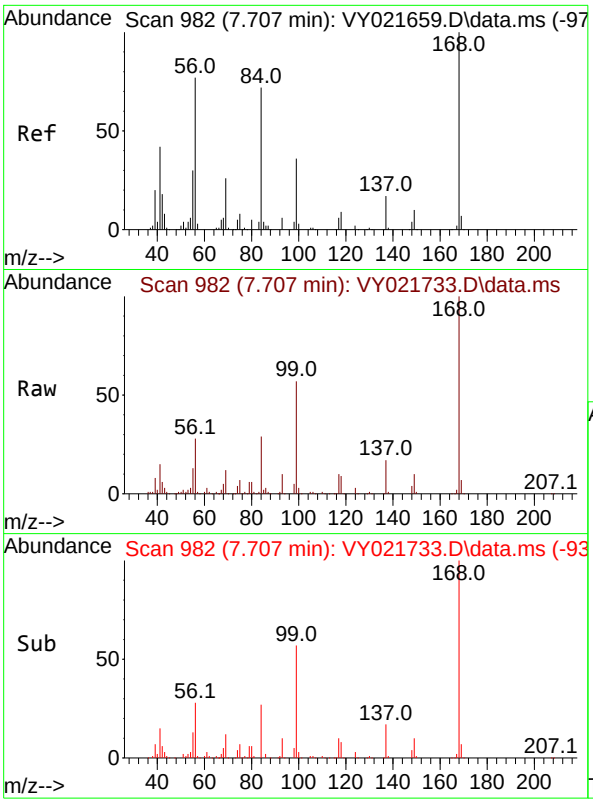
Quant Time: Apr 02 03:22:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

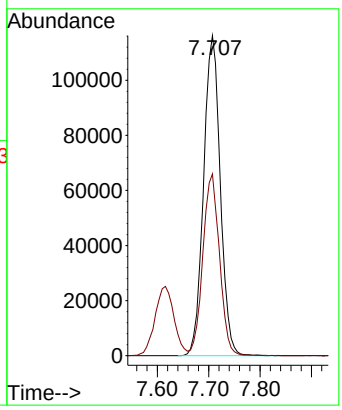




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:168 Resp: 26228

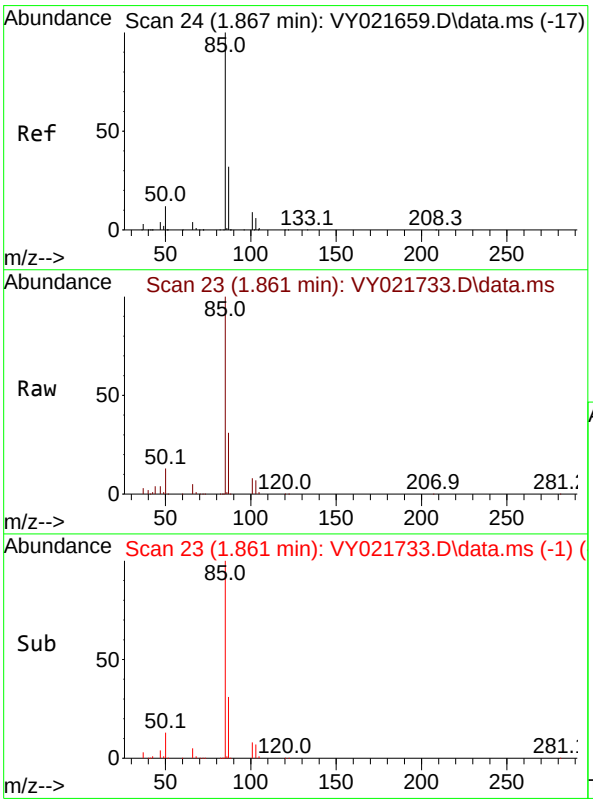
Ion	Ratio	Lower	Upper
168	100		
99	56.7	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

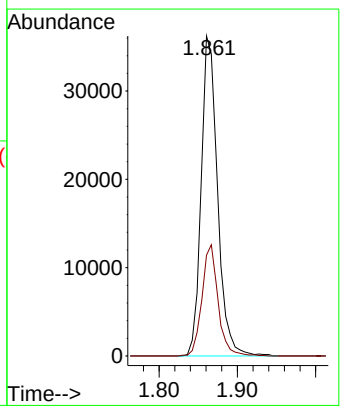
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

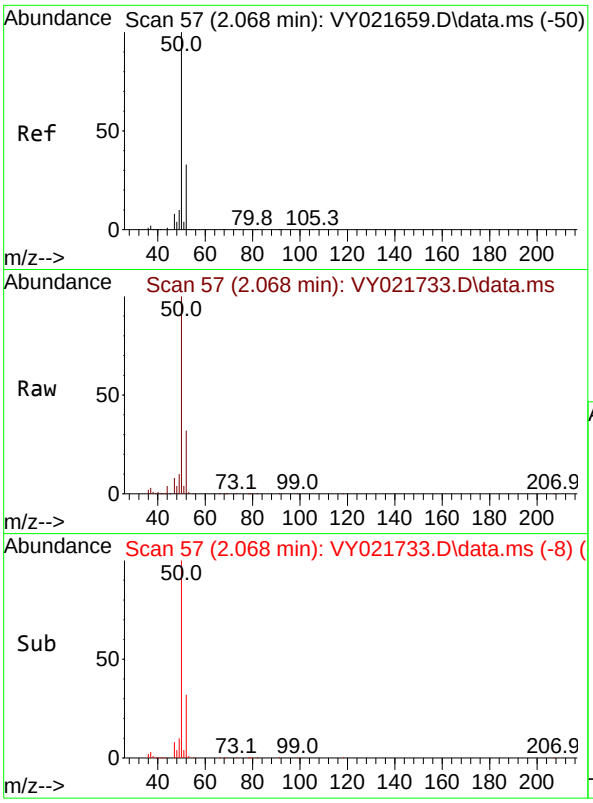


#2
Dichlorodifluoromethane
Concen: 19.389 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 85 Resp: 52708

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.2	48.6

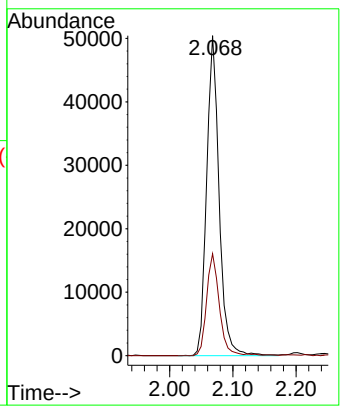




#3
Chloromethane
Concen: 18.110 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 50 Resp: 6922

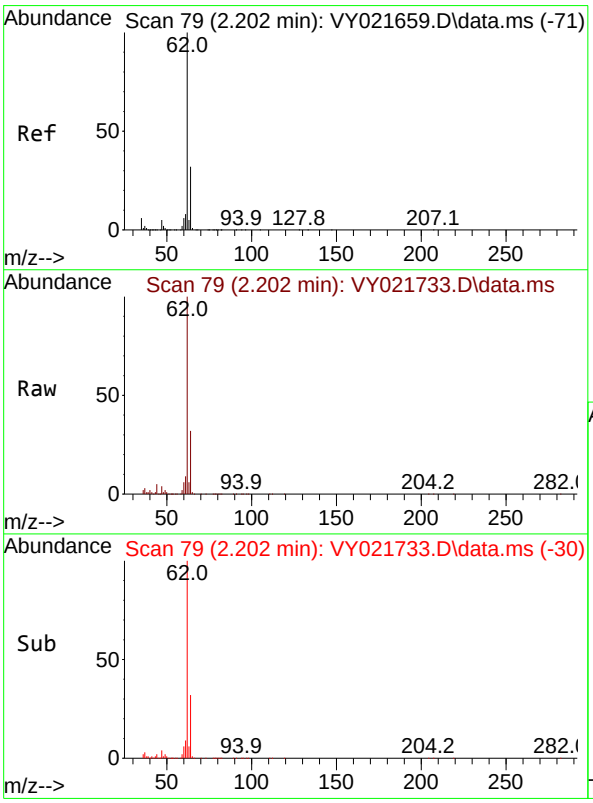
Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

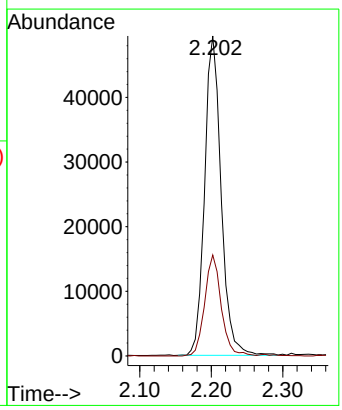
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

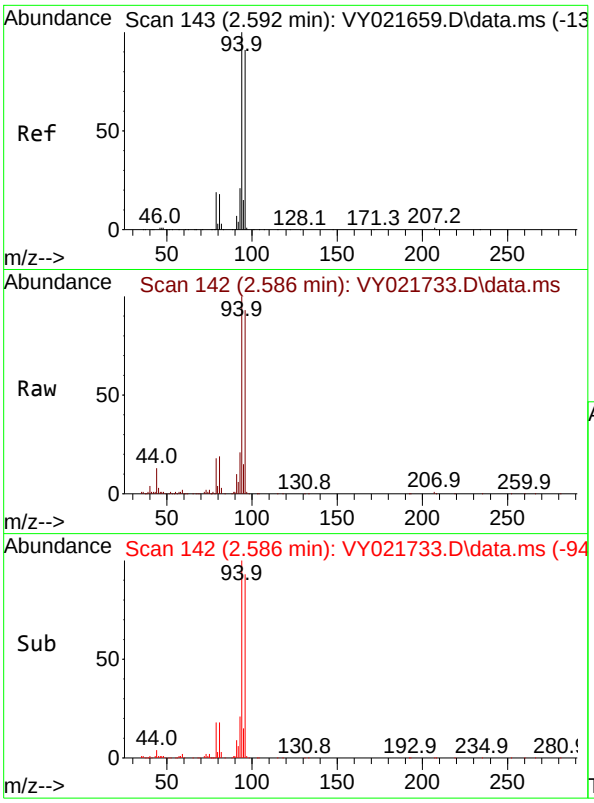


#4
Vinyl Chloride
Concen: 18.347 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 62 Resp: 79314

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.5	38.3

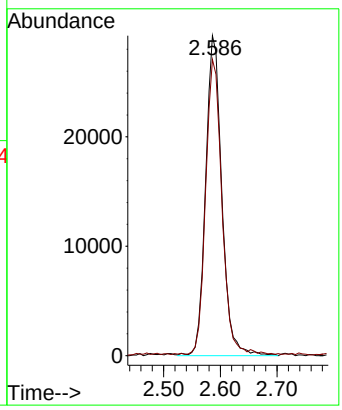




#5
Bromomethane
Concen: 19.693 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 94 Resp: 5806

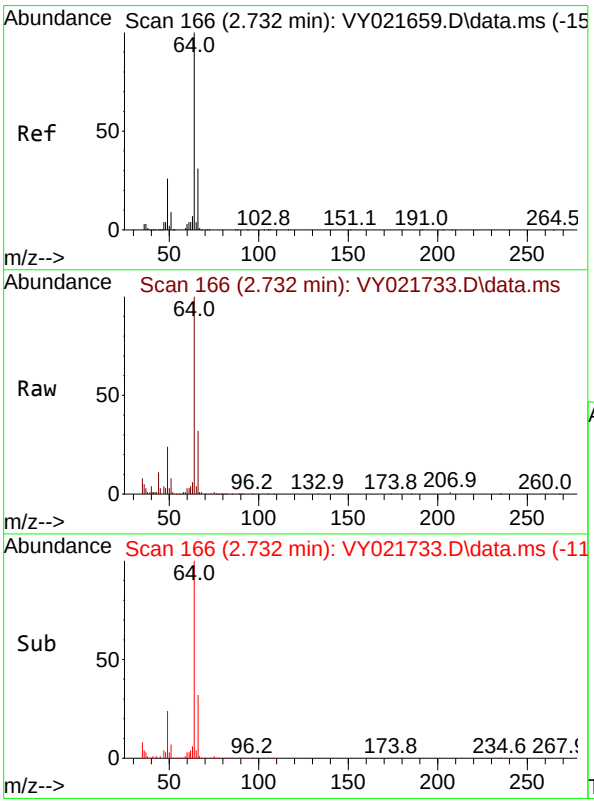
Ion	Ratio	Lower	Upper
94	100		
96	92.0	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

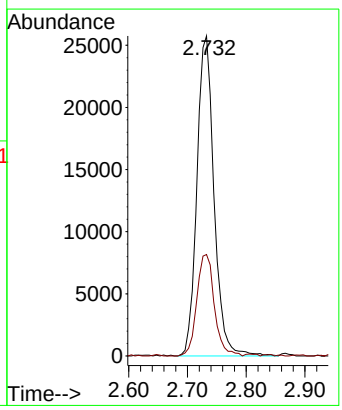
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

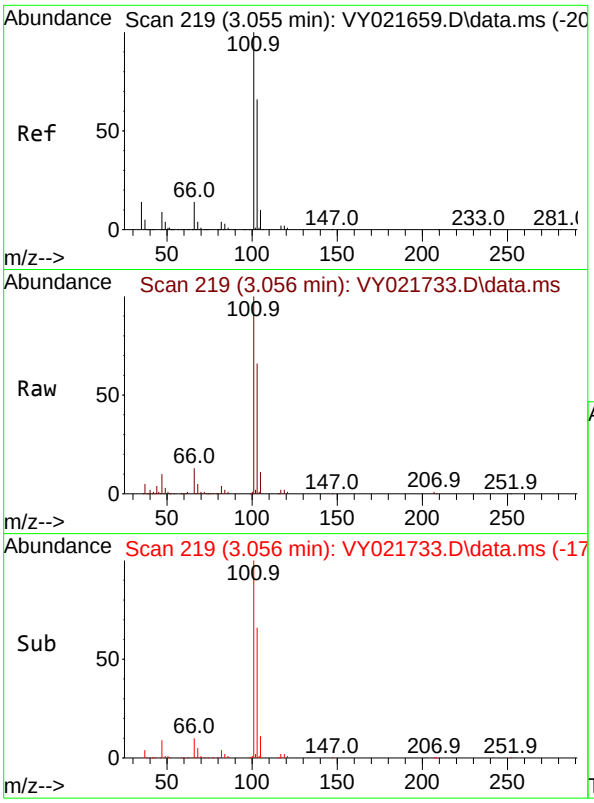


#6
Chloroethane
Concen: 18.406 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 64 Resp: 52067

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.9	37.3

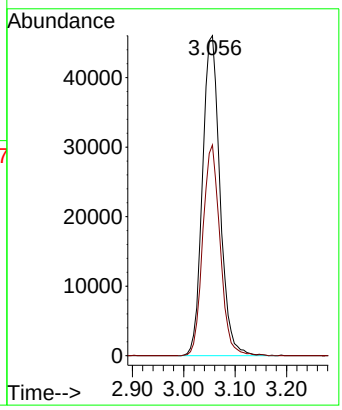




#7
Trichlorofluoromethane
Concen: 19.655 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:101 Resp: 10884

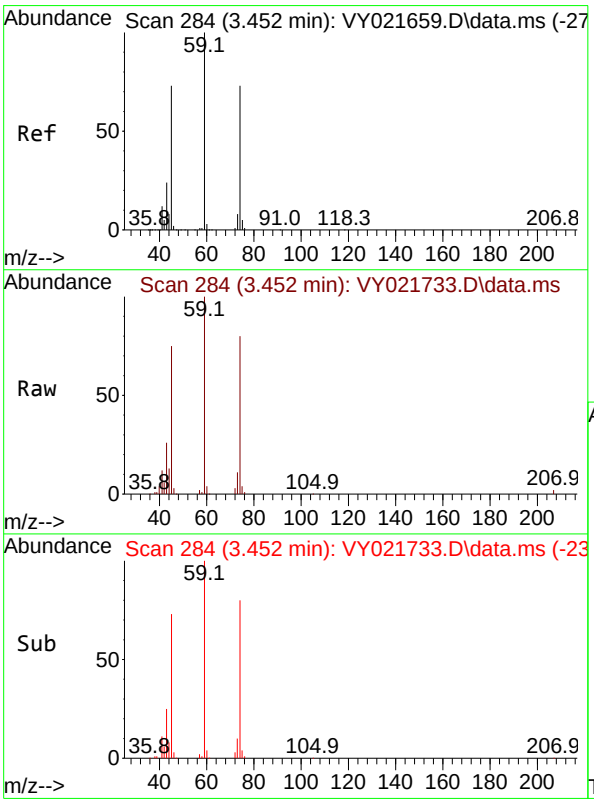
Ion	Ratio	Lower	Upper
101	100		
103	65.8	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

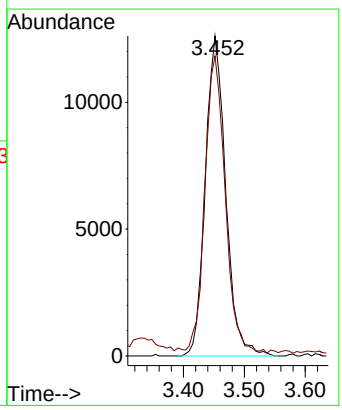
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

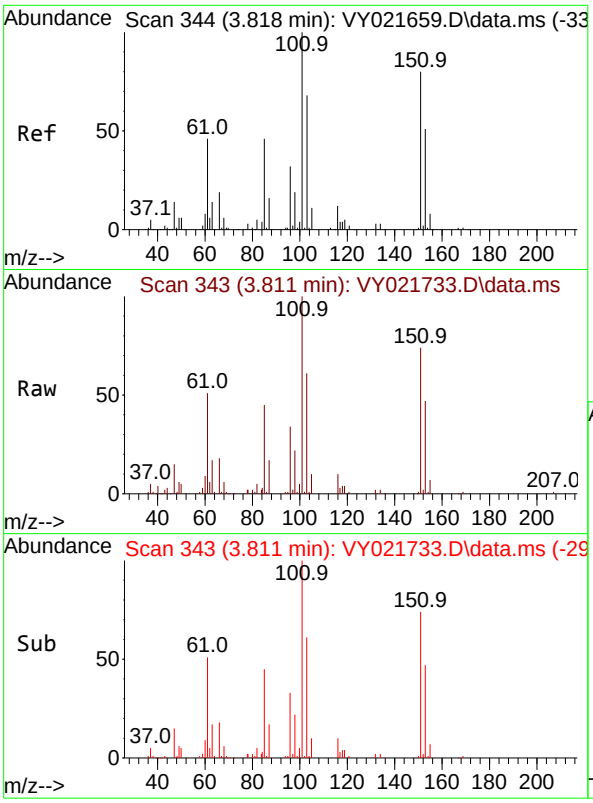


#8
Diethyl Ether
Concen: 19.516 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 74 Resp: 29391

Ion	Ratio	Lower	Upper
74	100		
45	92.7	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.132 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

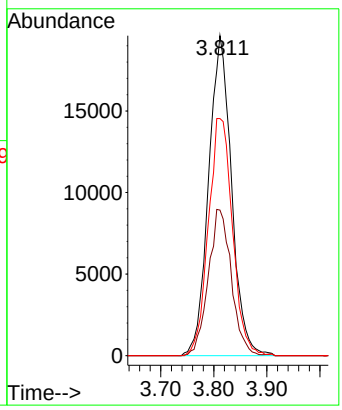
Tgt Ion:101 Resp: 5880

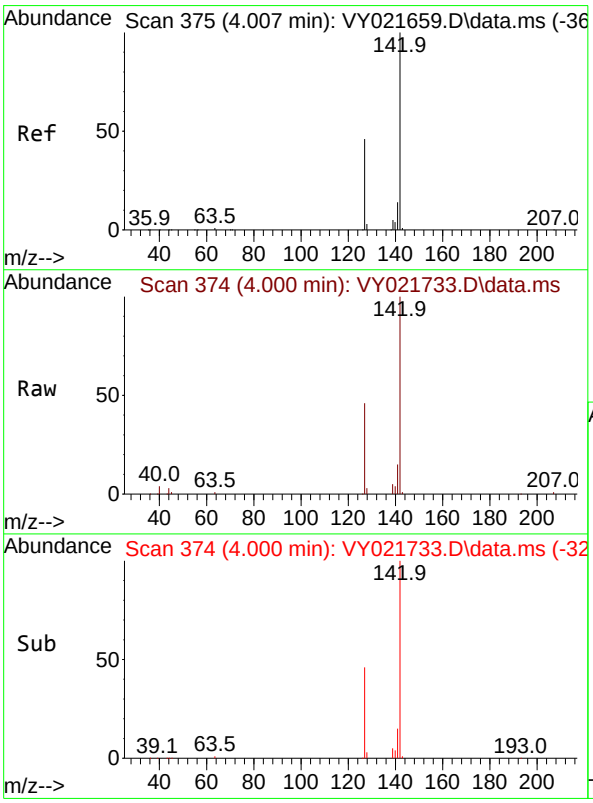
Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.3	54.5
151	78.1	61.3	91.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

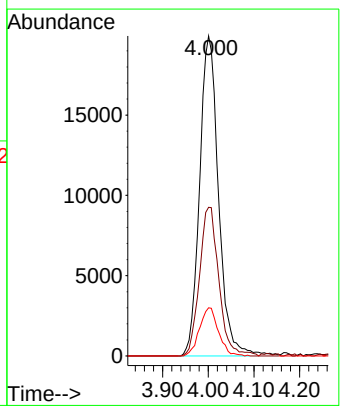


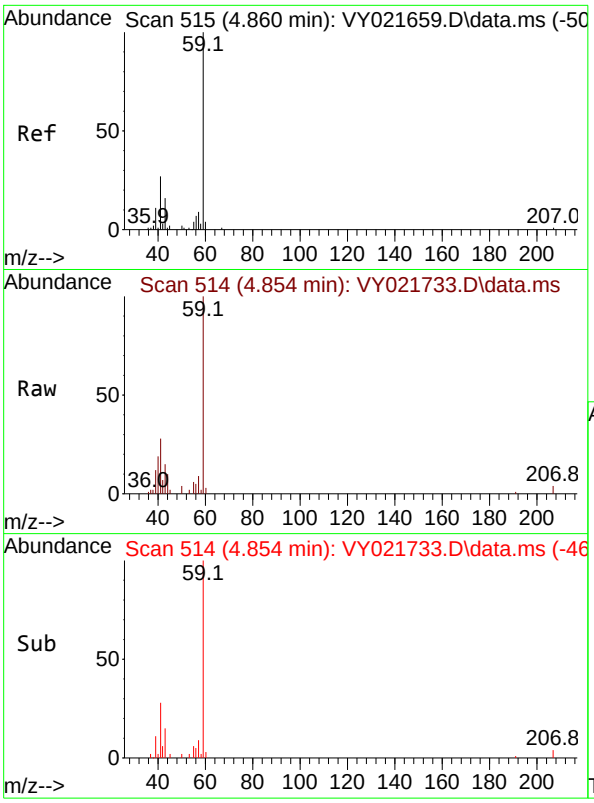


#10
Methyl Iodide
Concen: 17.924 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:142 Resp: 57434

Ion	Ratio	Lower	Upper
142	100		
127	47.4	38.7	58.1
141	15.1	11.5	17.3





#11
Tert butyl alcohol
Concen: 87.691 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

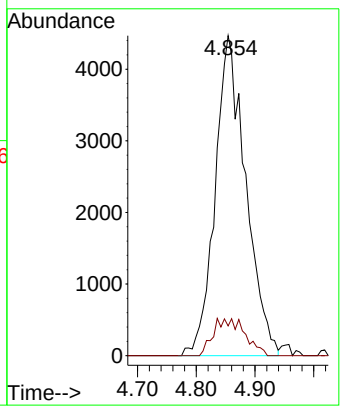
Tgt Ion: 59 Resp: 1618

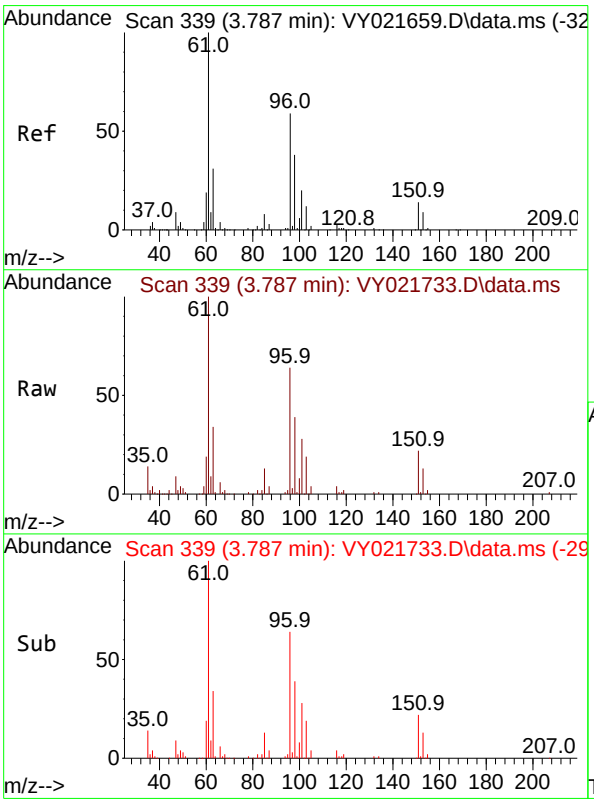
Ion	Ratio	Lower	Upper
59	100		
57	12.0	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

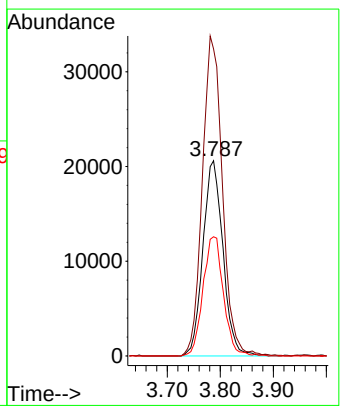


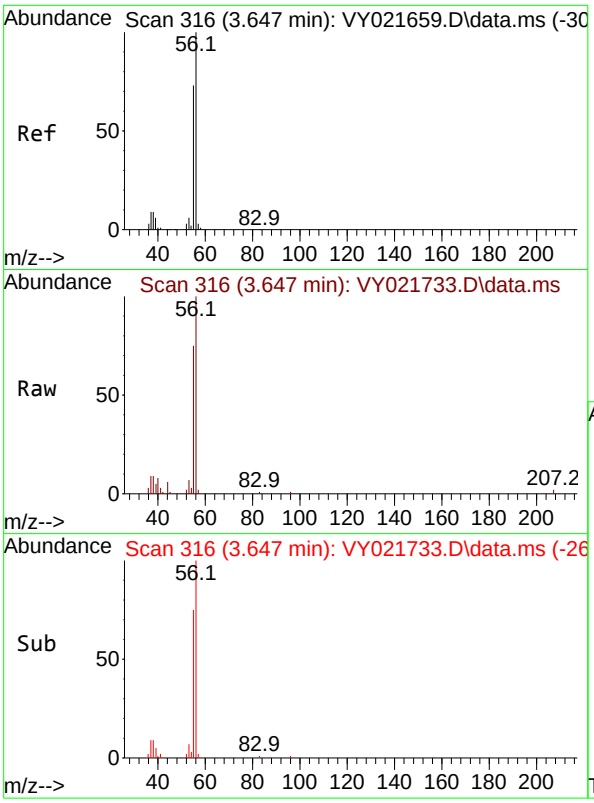


#12
1,1-Dichloroethene
Concen: 19.700 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 96 Resp: 54196

Ion	Ratio	Lower	Upper
96	100		
61	157.3	136.6	204.8
98	61.1	52.3	78.5

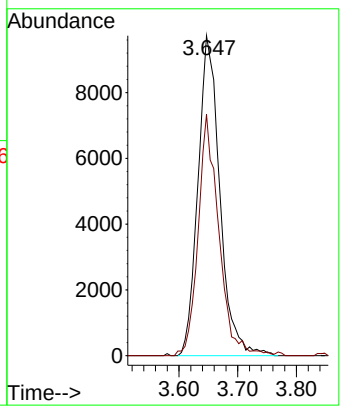




#13
Acrolein
Concen: 74.696 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 56 Resp: 2517

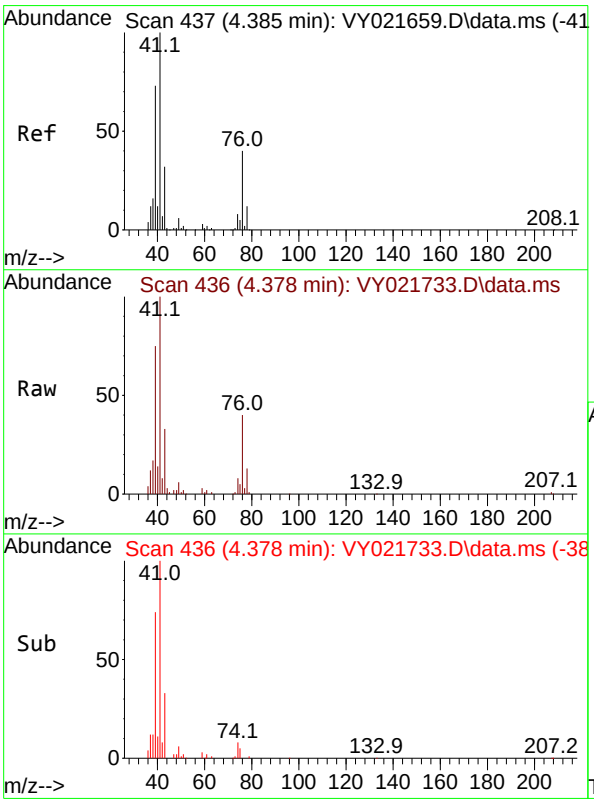
Ion	Ratio	Lower	Upper
56	100		
55	71.2	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

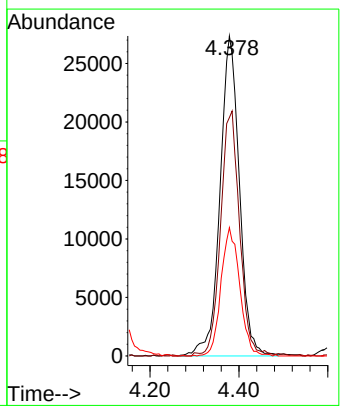
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

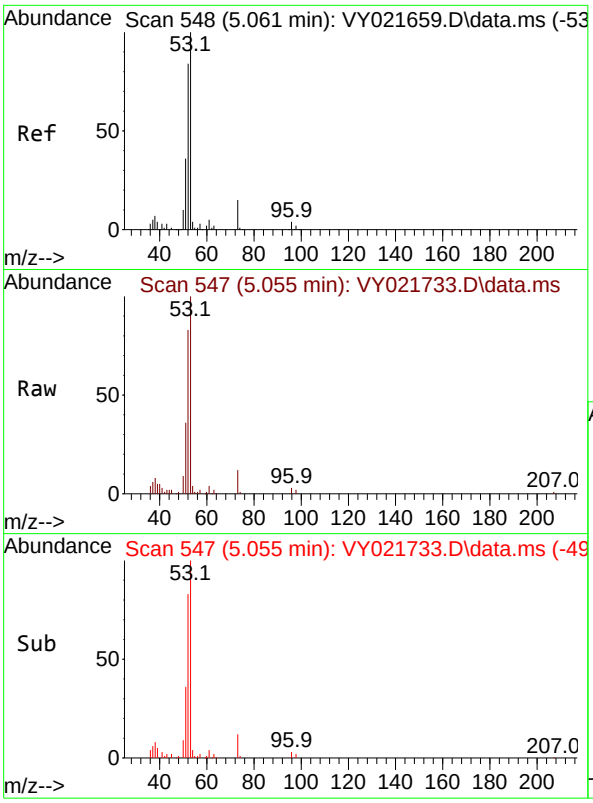


#14
Allyl chloride
Concen: 18.822 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 41 Resp: 82560

Ion	Ratio	Lower	Upper
41	100		
39	75.0	58.6	88.0
76	38.8	30.3	45.5





#15
Acrylonitrile
Concen: 92.750 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

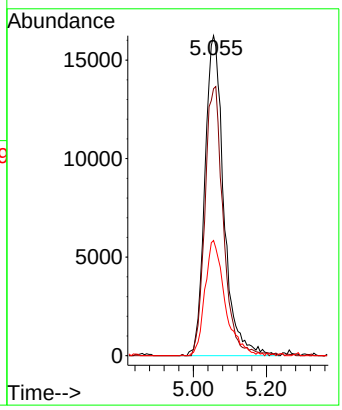
Tgt Ion: 53 Resp: 5832

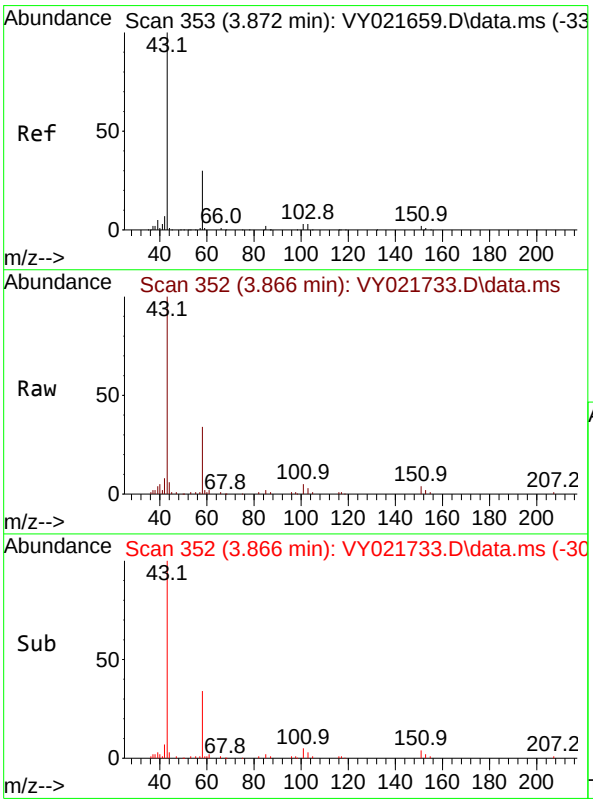
Ion	Ratio	Lower	Upper
53	100		
52	81.6	64.9	97.3
51	38.1	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

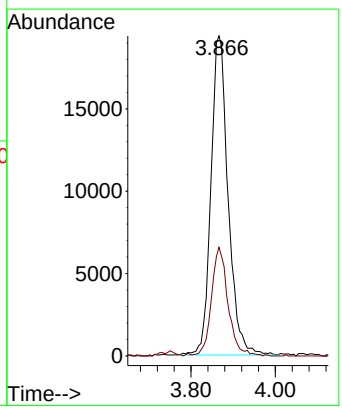


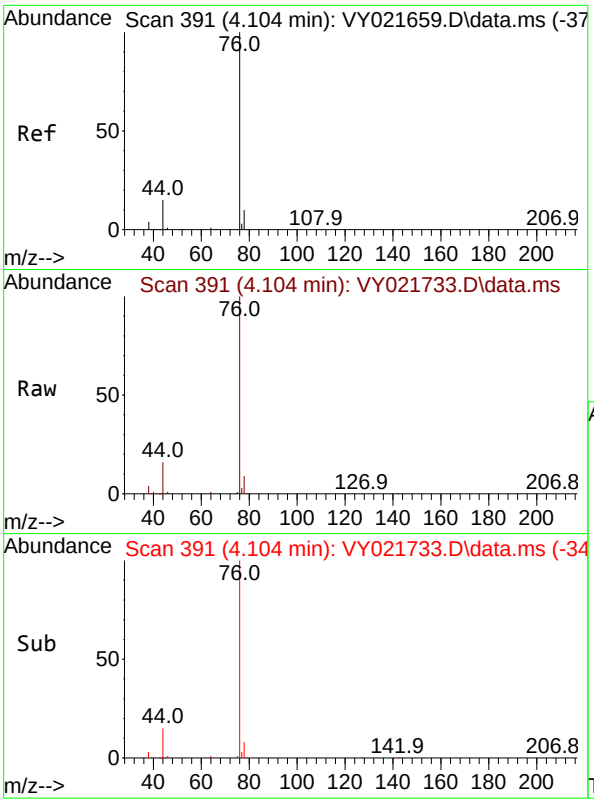


#16
Acetone
Concen: 94.269 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 54827

Ion	Ratio	Lower	Upper
43	100		
58	34.0	24.2	36.4

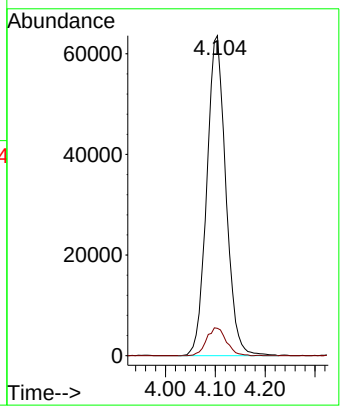




#17
Carbon Disulfide
Concen: 18.640 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 76 Resp: 16890

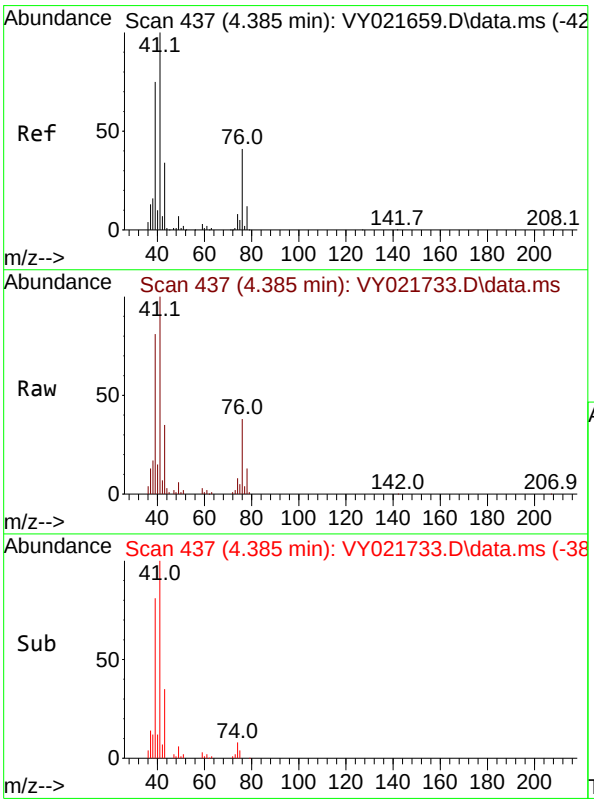
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

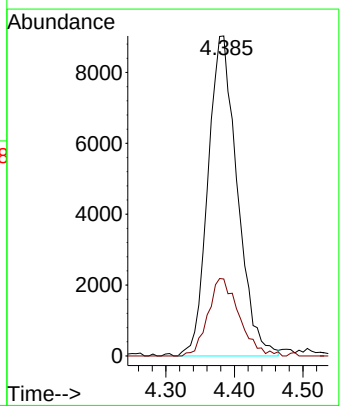
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

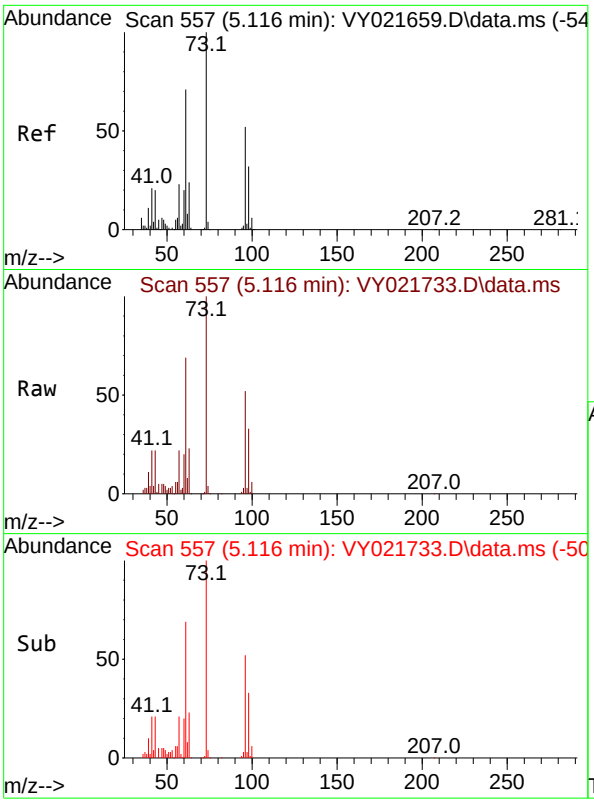


#18
Methyl Acetate
Concen: 18.610 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 26825

Ion	Ratio	Lower	Upper
43	100		
74	25.7	19.1	28.7

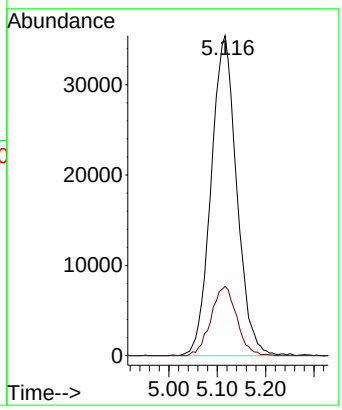




#19
Methyl tert-butyl Ether
Concen: 19.017 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 73 Resp: 13025

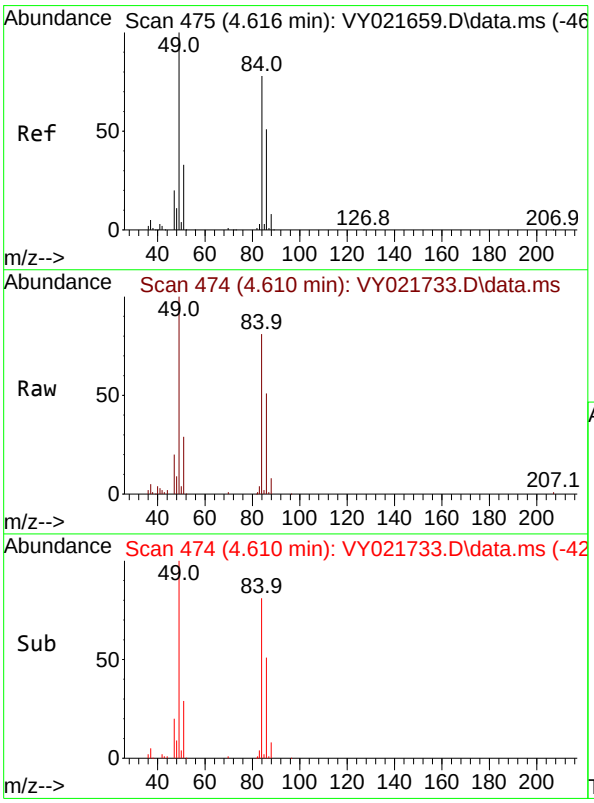
Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

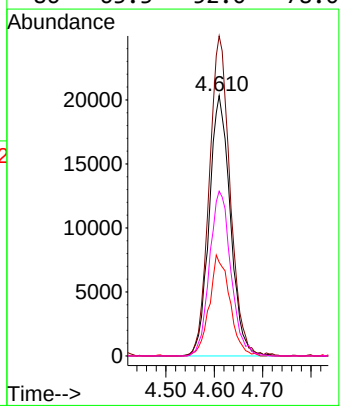
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

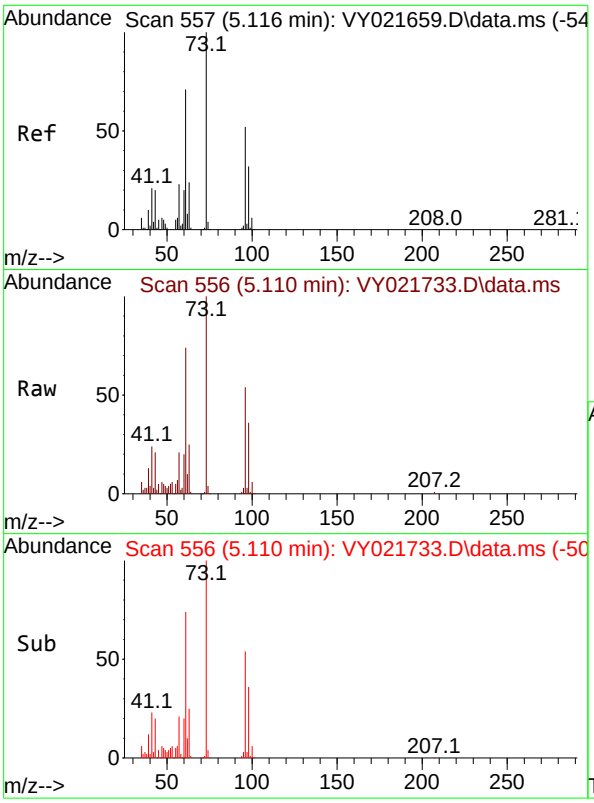


#20
Methylene Chloride
Concen: 19.315 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 84 Resp: 61724

Ion	Ratio	Lower	Upper
84	100		
49	122.9	102.8	154.2
51	36.0	33.5	50.3
86	63.3	52.0	78.0

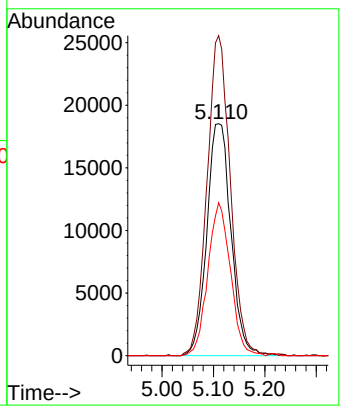




#21
trans-1,2-Dichloroethene
Concen: 19.905 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 96 Resp: 6029

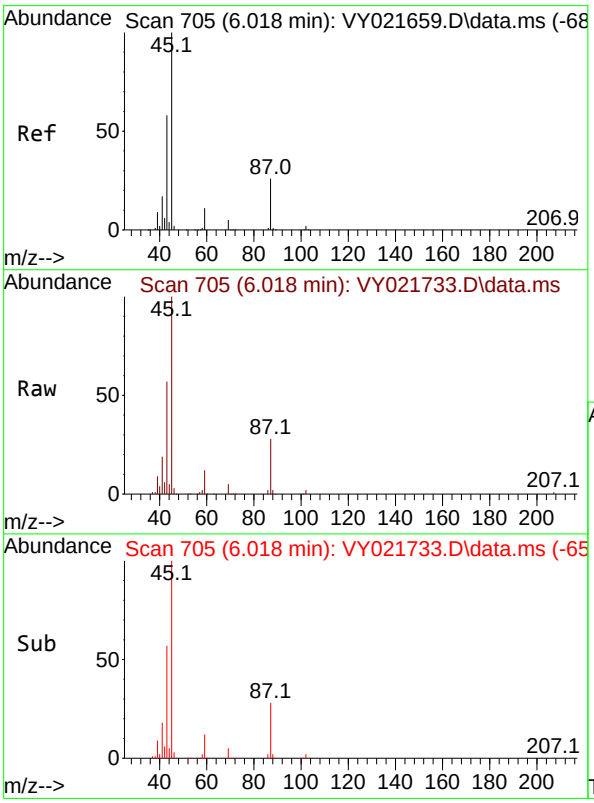
Ion	Ratio	Lower	Upper
96	100		
61	137.9	109.4	164.0
98	65.9	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

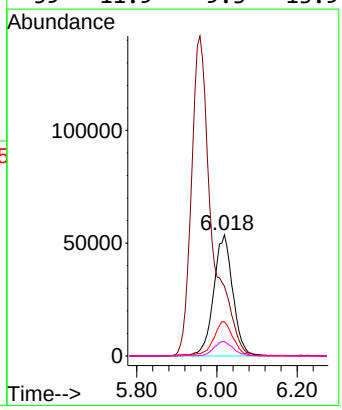
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

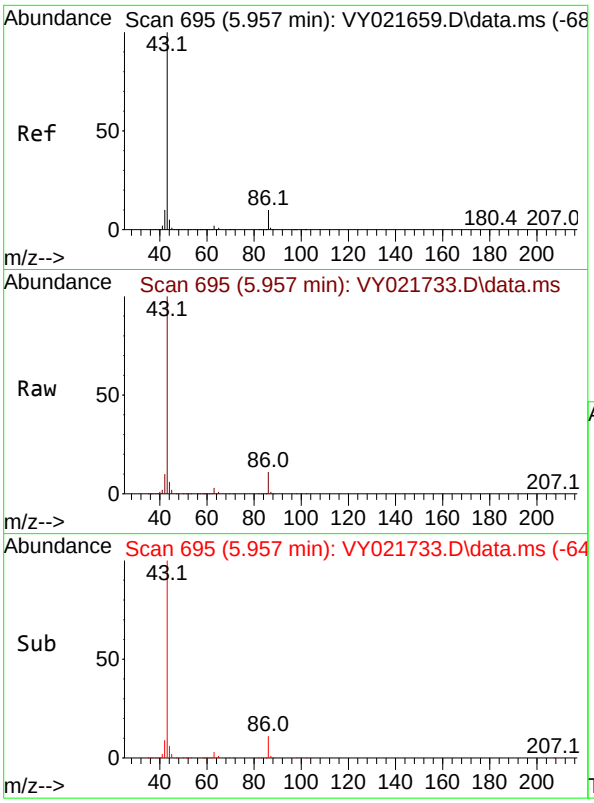


#22
Diisopropyl ether
Concen: 19.391 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 45 Resp: 178430

Ion	Ratio	Lower	Upper
45	100		
43	57.0	46.6	69.8
87	28.2	20.7	31.1
59	11.9	9.3	13.9

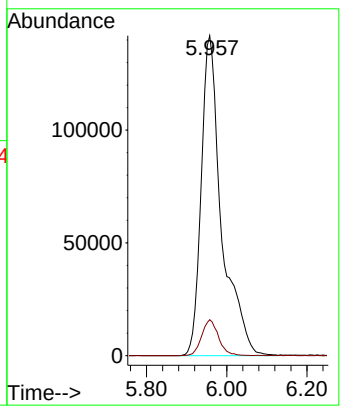




#23
Vinyl Acetate
Concen: 93.058 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 50092

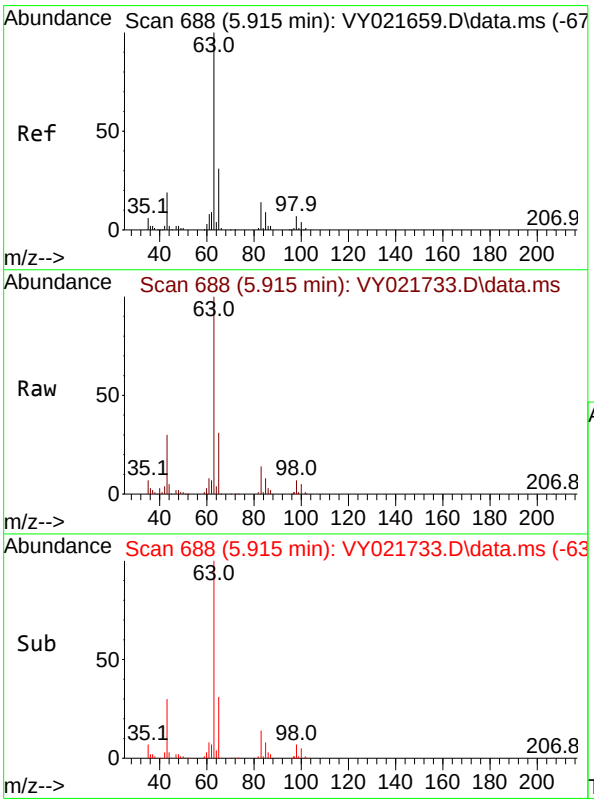
Ion	Ratio	Lower	Upper
43	100		
86	11.2	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

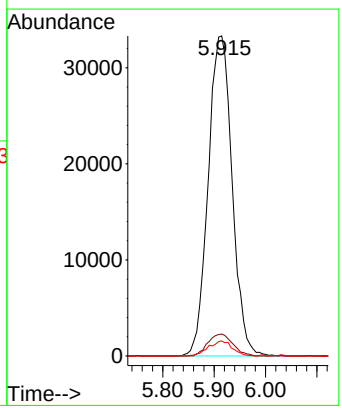
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

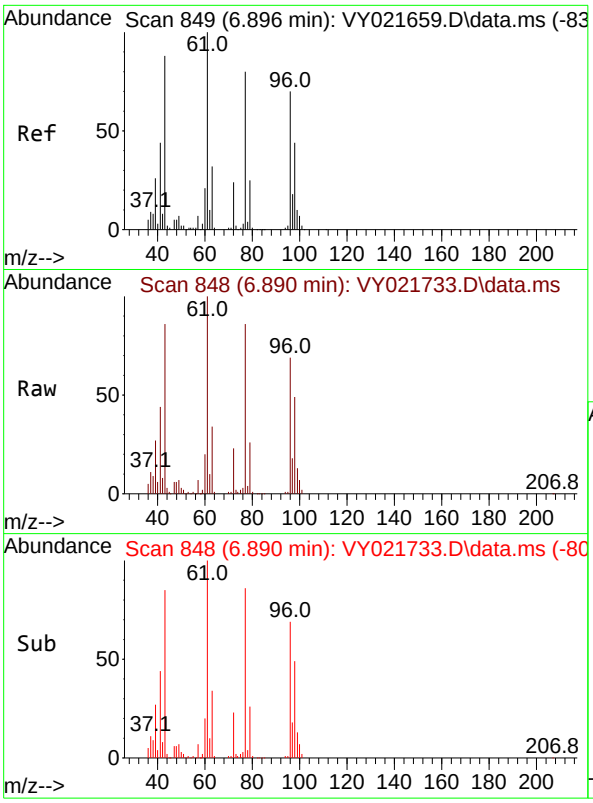


#24
1,1-Dichloroethane
Concen: 19.600 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 63 Resp: 107840

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	4.7	2.2	6.6





#25
2-Butanone
Concen: 93.740 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

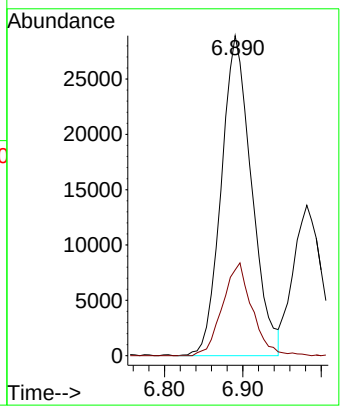
Tgt Ion: 43 Resp: 7787

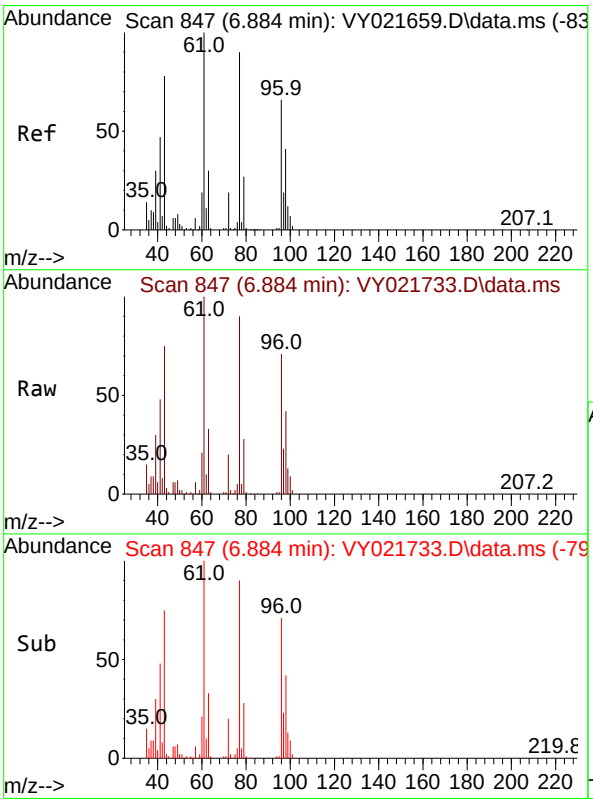
Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

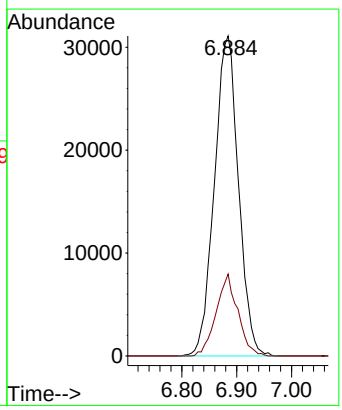


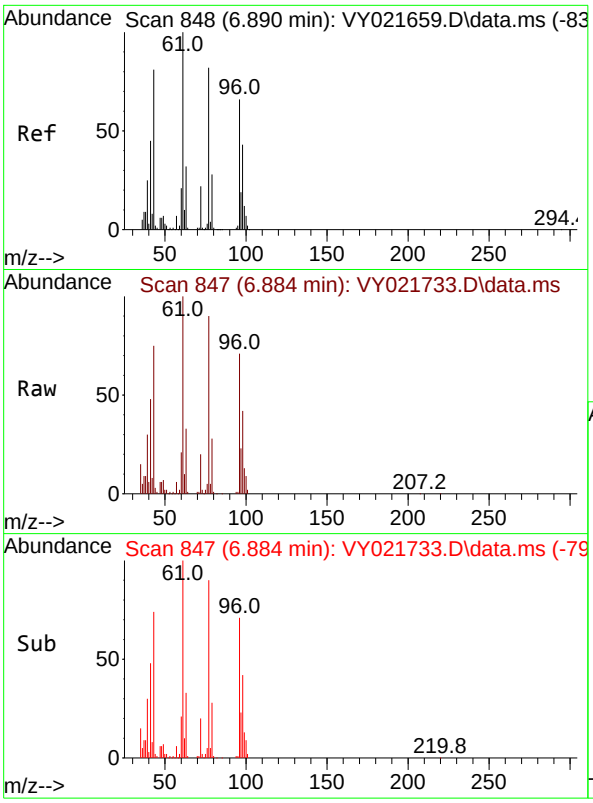


#26
2,2-Dichloropropane
Concen: 19.406 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 77 Resp: 94979

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.1	33.1

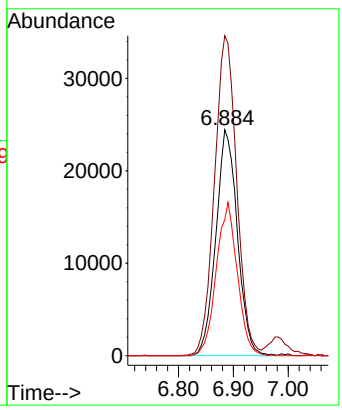




#27
cis-1,2-Dichloroethene
Concen: 19.615 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 96 Resp: 6681

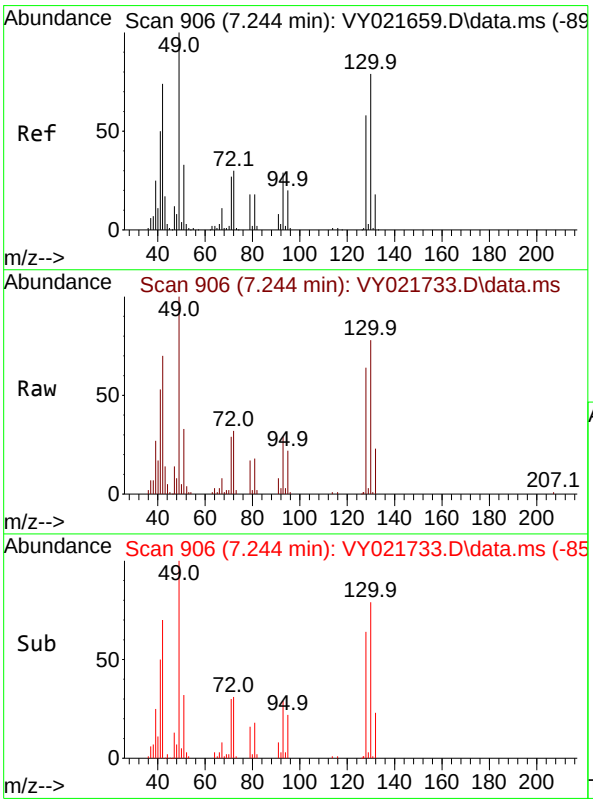
Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	296.4
98	66.2	0.0	128.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

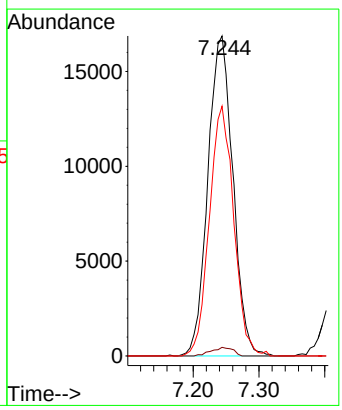
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

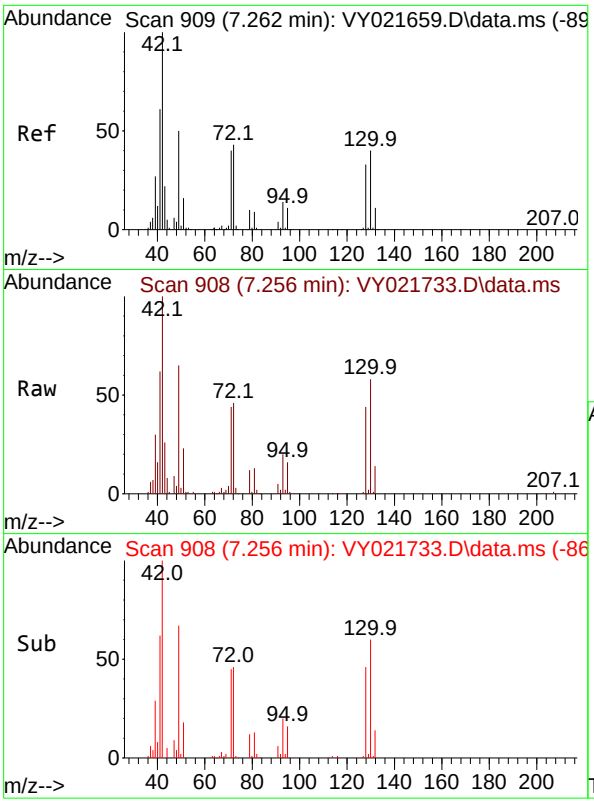


#28
Bromochloromethane
Concen: 19.282 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 49 Resp: 44742

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.4
130	76.0	60.1	90.1

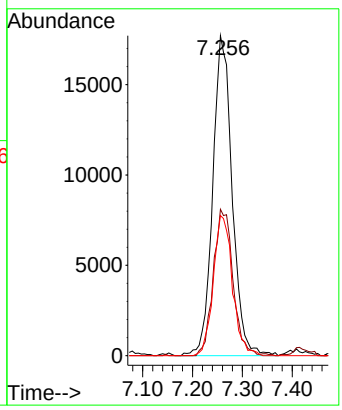




#29
Tetrahydrofuran
Concen: 89.647 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 42 Resp: 4792

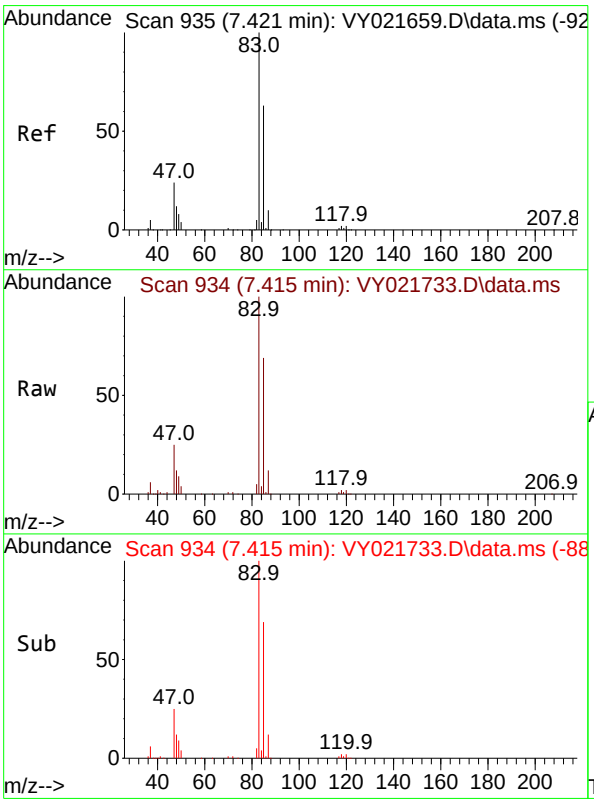
Ion	Ratio	Lower	Upper
42	100		
72	46.2	34.6	52.0
71	43.1	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

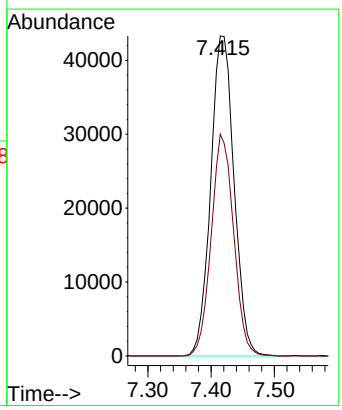
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

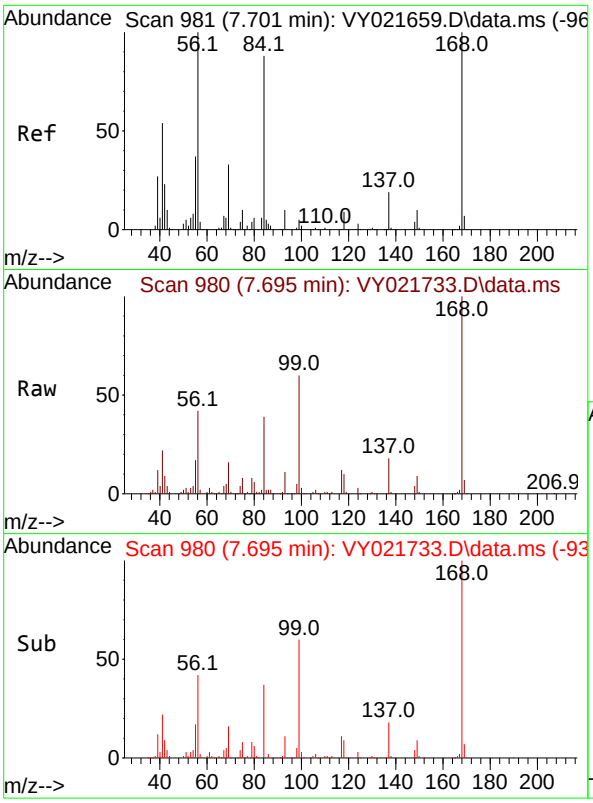


#30
Chloroform
Concen: 19.427 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 83 Resp: 111174

Ion	Ratio	Lower	Upper
83	100		
85	69.3	50.6	75.8





#31
Cyclohexane
Concen: 18.799 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

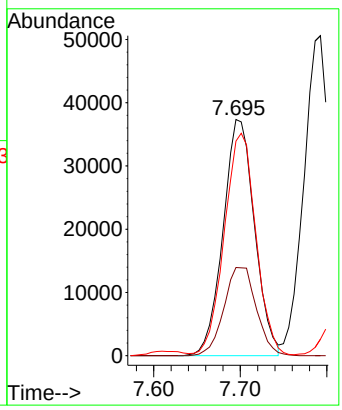
Tgt Ion: 56 Resp: 9428

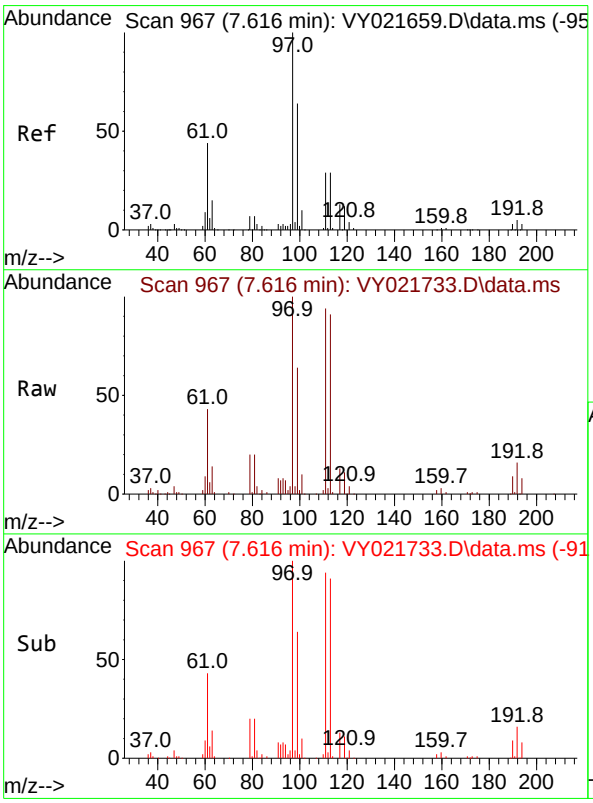
Ion	Ratio	Lower	Upper
56	100		
69	37.3	26.6	40.0
84	89.2	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

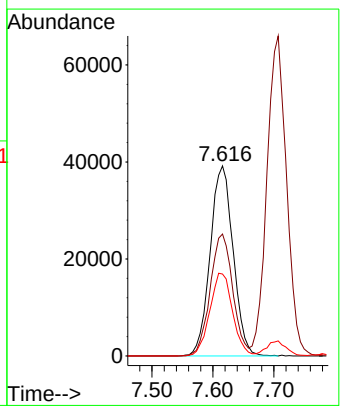


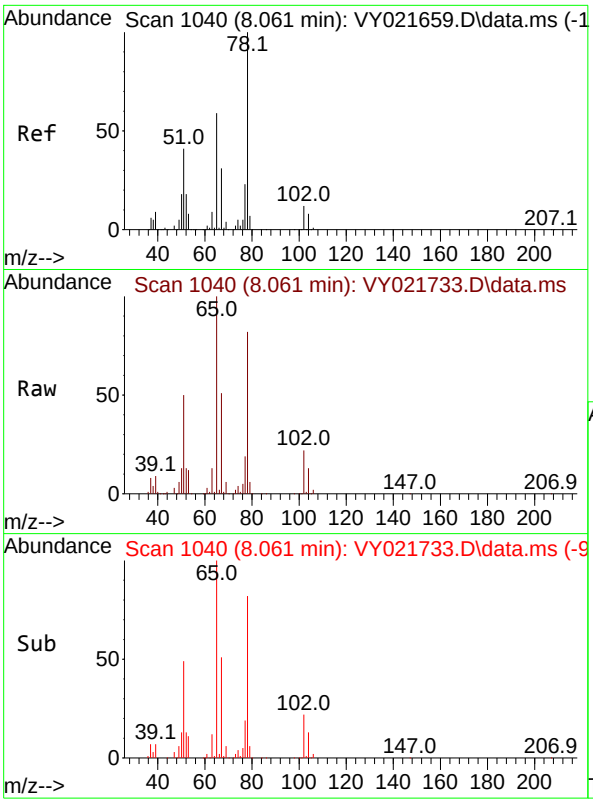


#32
1,1,1-Trichloroethane
Concen: 19.822 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 97 Resp: 102527

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.7	76.1
61	43.3	35.2	52.8

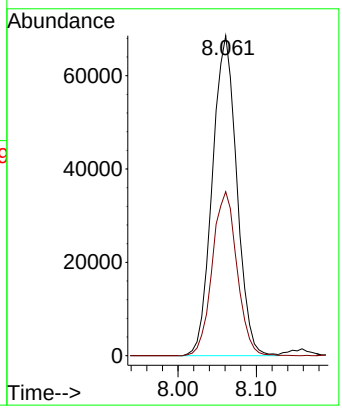




#33
1,2-Dichloroethane-d4
Concen: 52.279 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 65 Resp: 14856

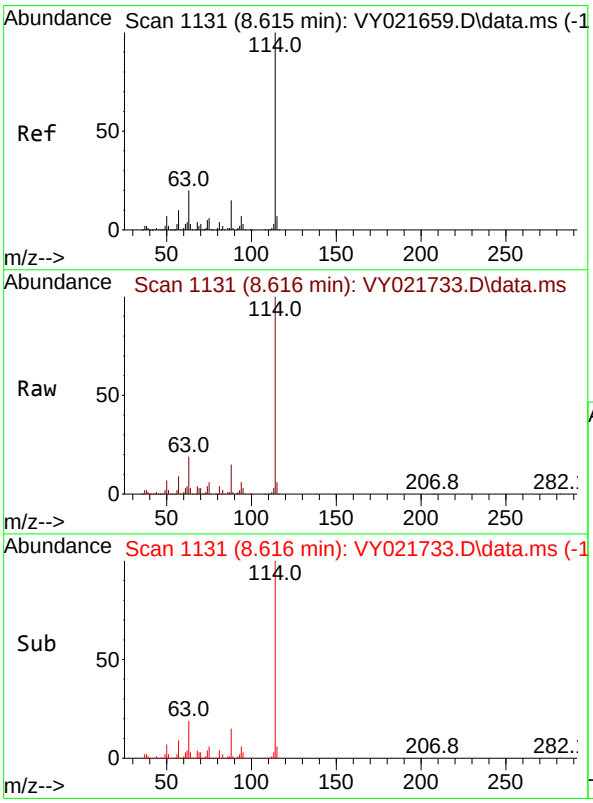
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

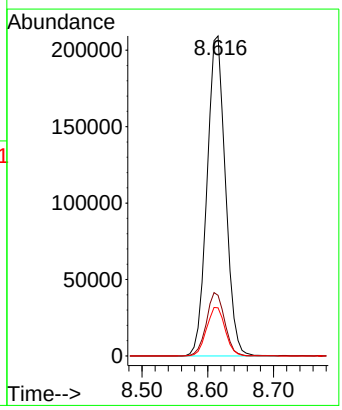
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

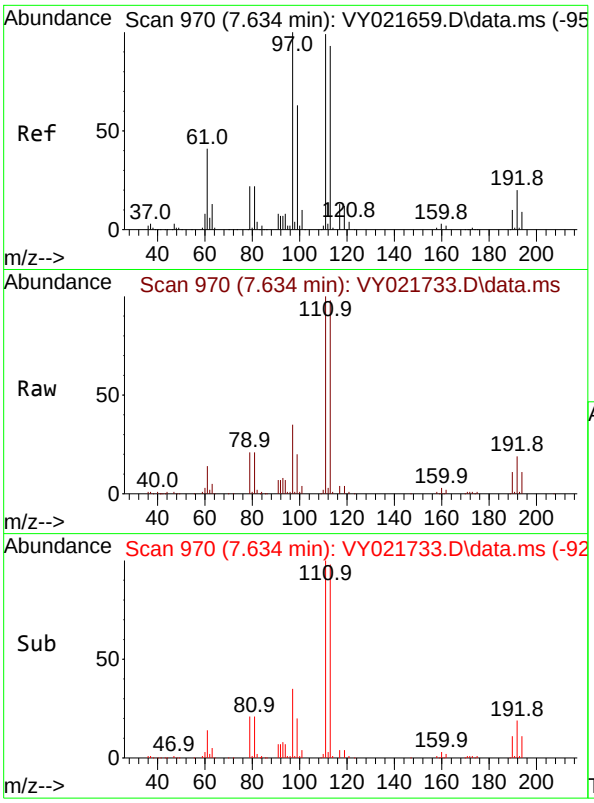


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:114 Resp: 407591

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	40.2
88	15.1	0.0	29.8

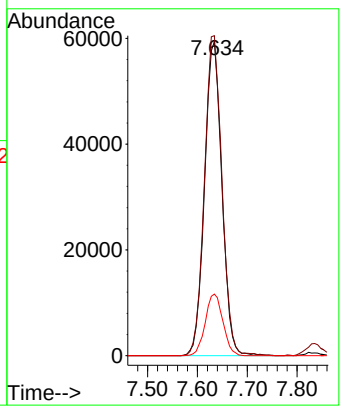




#35
Dibromofluoromethane
Concen: 54.137 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:113 Resp: 14313

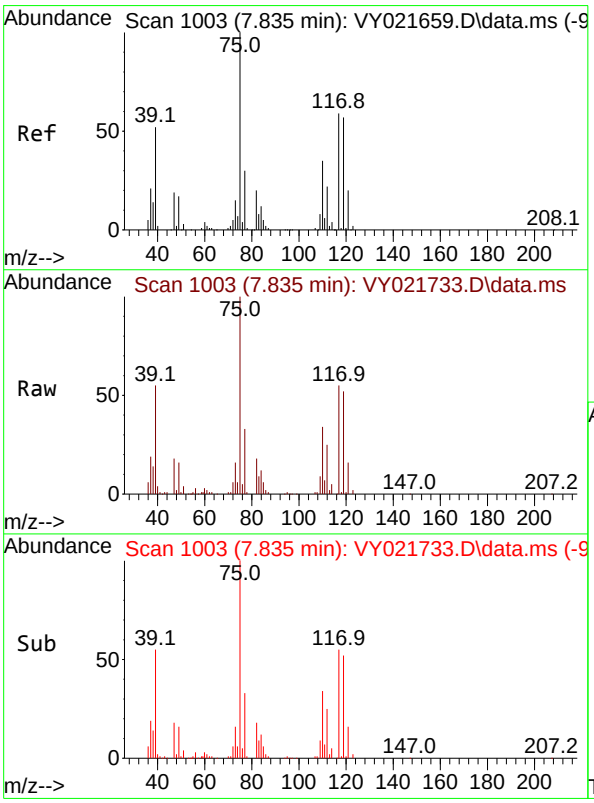
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	20.0	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

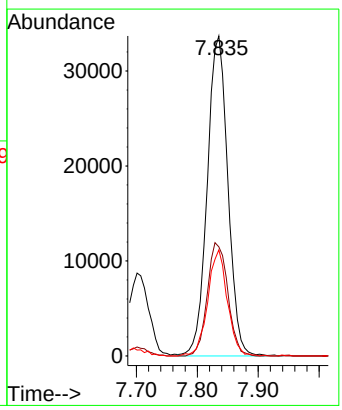
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

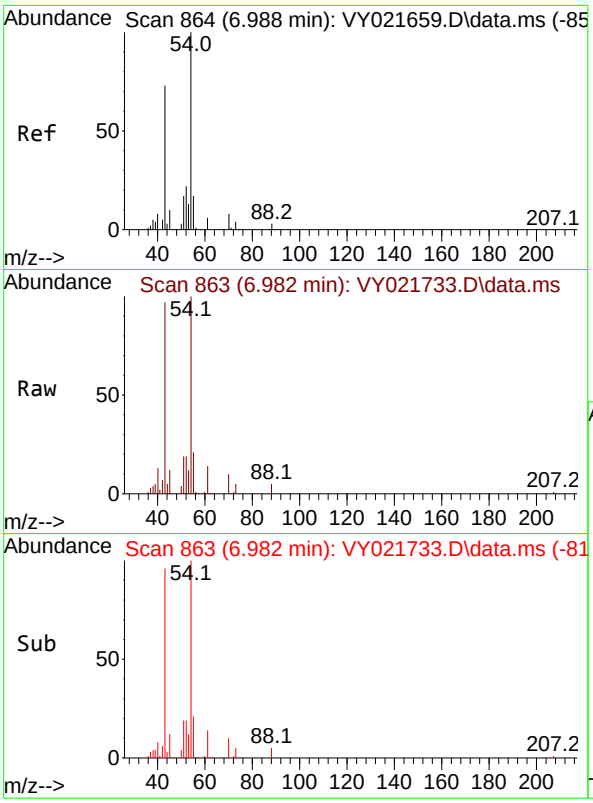


#36
1,1-Dichloropropene
Concen: 19.693 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 75 Resp: 79309

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.0	50.9
77	31.6	24.8	37.2

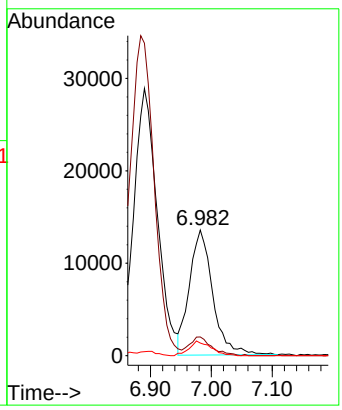




#37
Ethyl Acetate
Concen: 18.959 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 3603

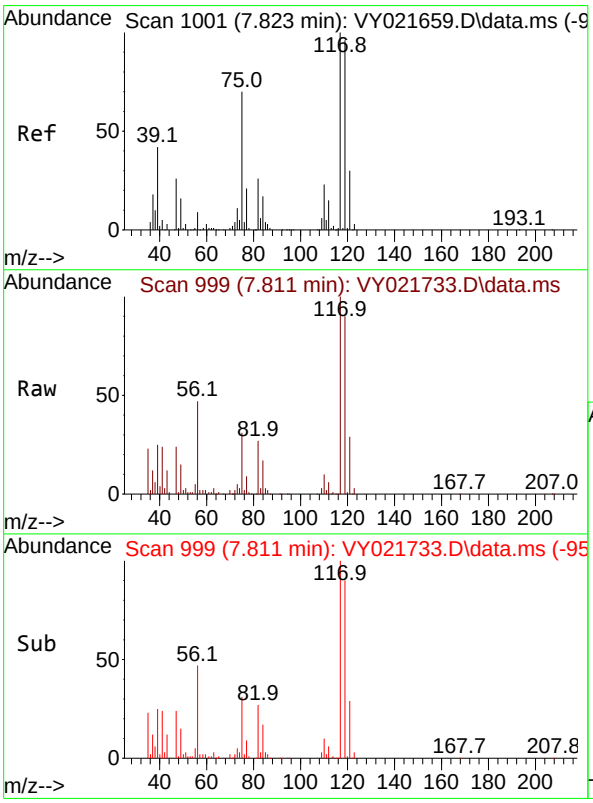
Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.0	16.6
70	10.9	8.1	12.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

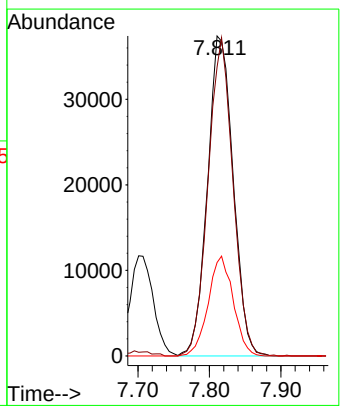
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

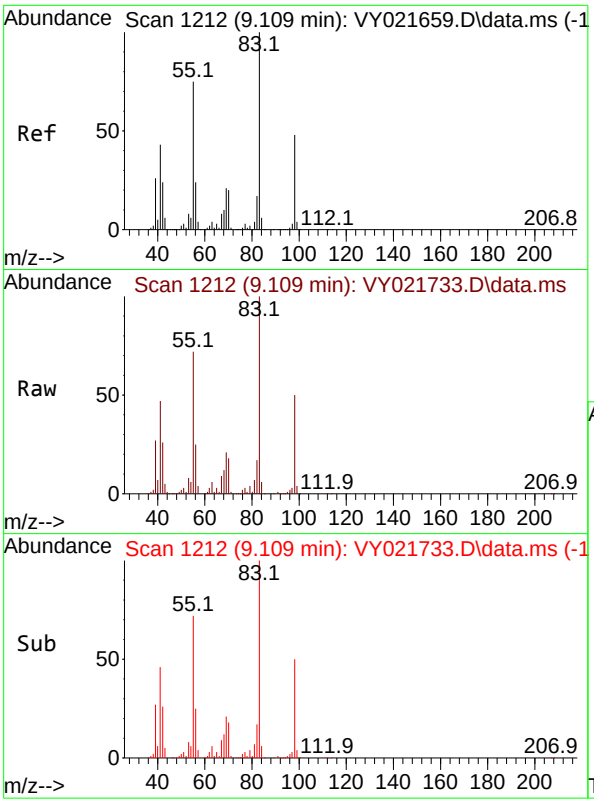


#38
Carbon Tetrachloride
Concen: 20.266 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.012 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:117 Resp: 93478

Ion	Ratio	Lower	Upper
117	100		
119	90.3	76.2	114.4
121	29.2	24.2	36.4





#39
Methylcyclohexane
Concen: 19.619 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

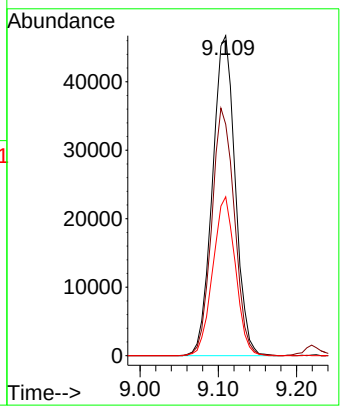
Tgt Ion: 83 Resp: 9438

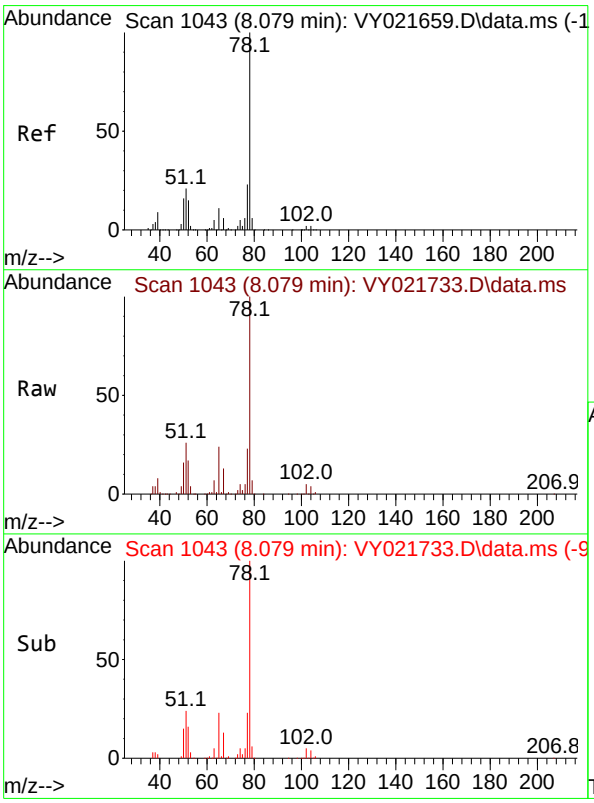
Ion	Ratio	Lower	Upper
83	100		
55	72.3	59.7	89.5
98	49.7	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

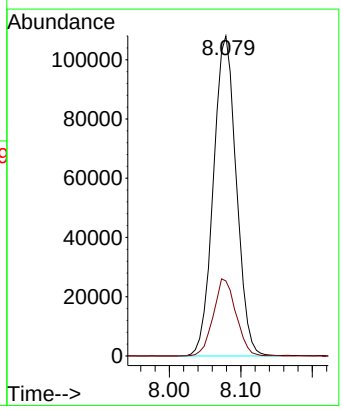


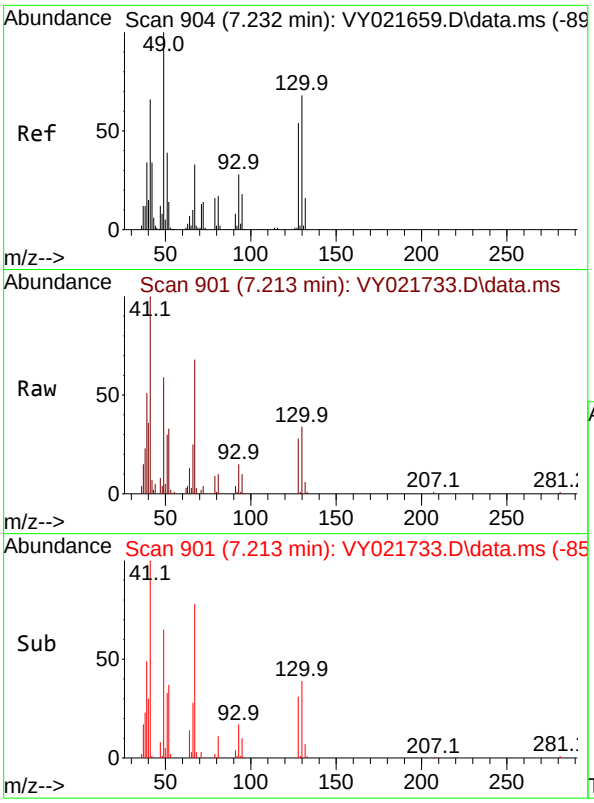


#40
Benzene
Concen: 19.911 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 78 Resp: 240138

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2

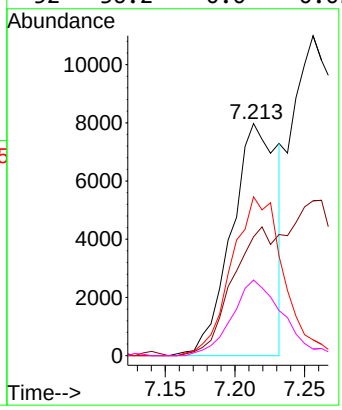




#41
Methacrylonitrile
Concen: 18.123 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 41 Resp: 1829

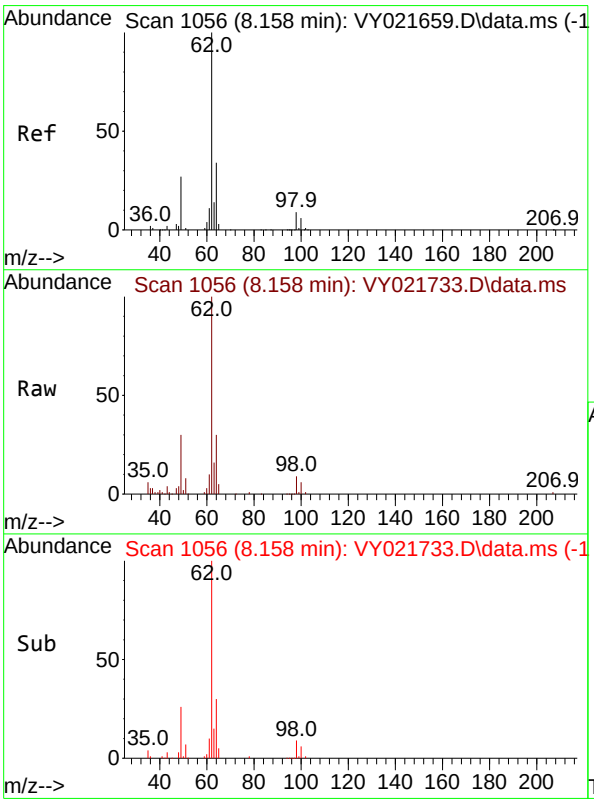
Ion	Ratio	Lower	Upper
41	100		
39	46.9	0.0	0.0#
67	78.8	0.0	0.0#
52	36.2	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

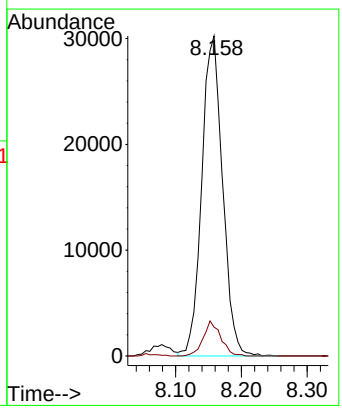
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

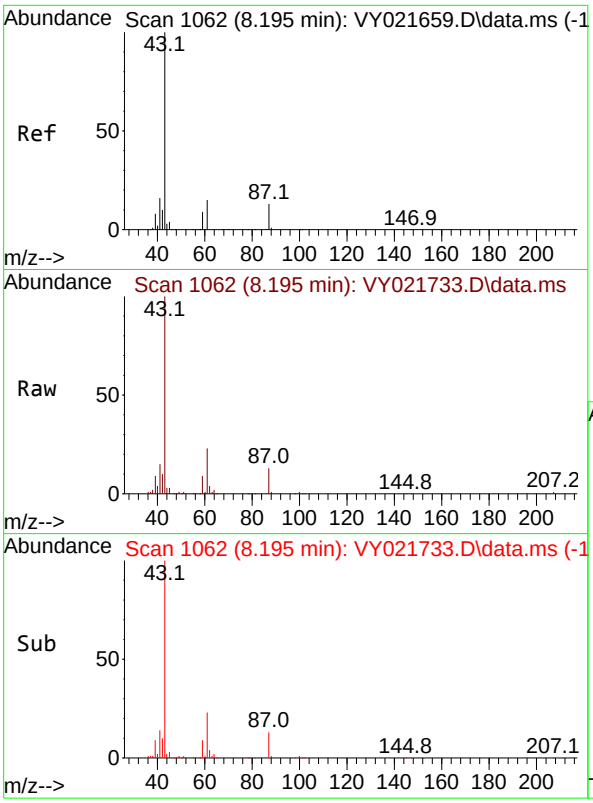


#42
1,2-Dichloroethane
Concen: 19.595 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 62 Resp: 66624

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4

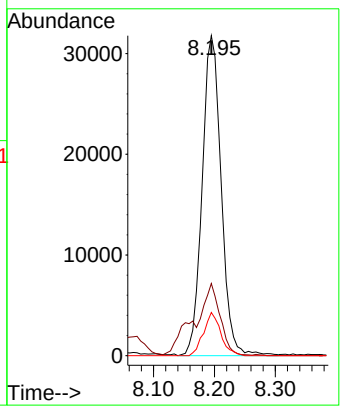




#43
Isopropyl Acetate
Concen: 19.189 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 6911

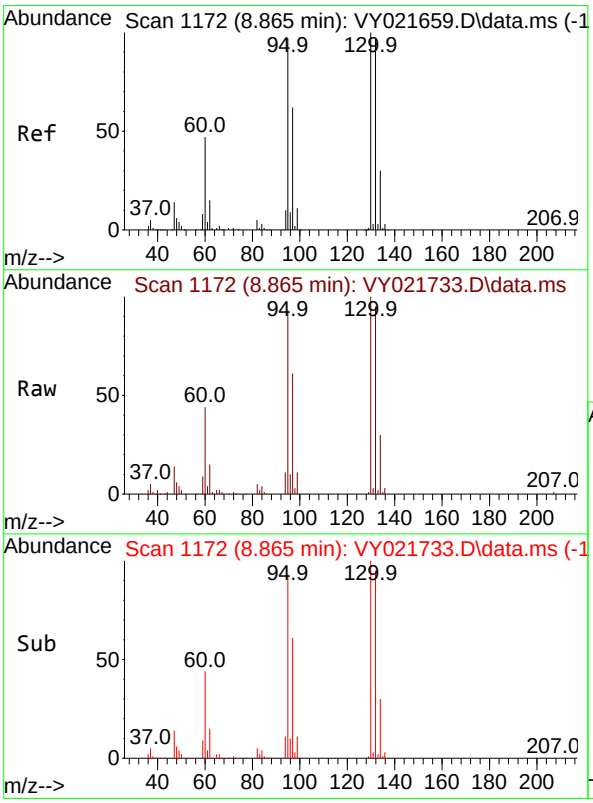
Ion	Ratio	Lower	Upper
43	100		
61	30.3	15.9	23.9
87	12.3	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

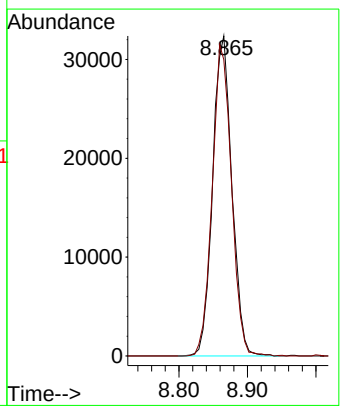
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

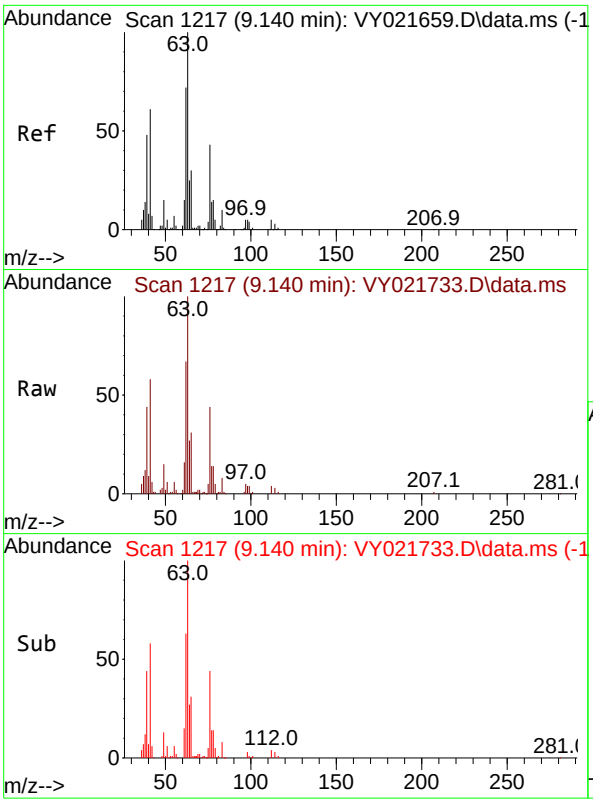


#44
Trichloroethene
Concen: 20.516 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:130 Resp: 63043

Ion	Ratio	Lower	Upper
130	100		
95	92.6	0.0	194.8

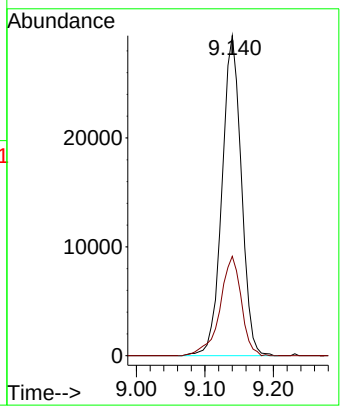




#45
1,2-Dichloropropane
Concen: 20.134 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 63 Resp: 5747

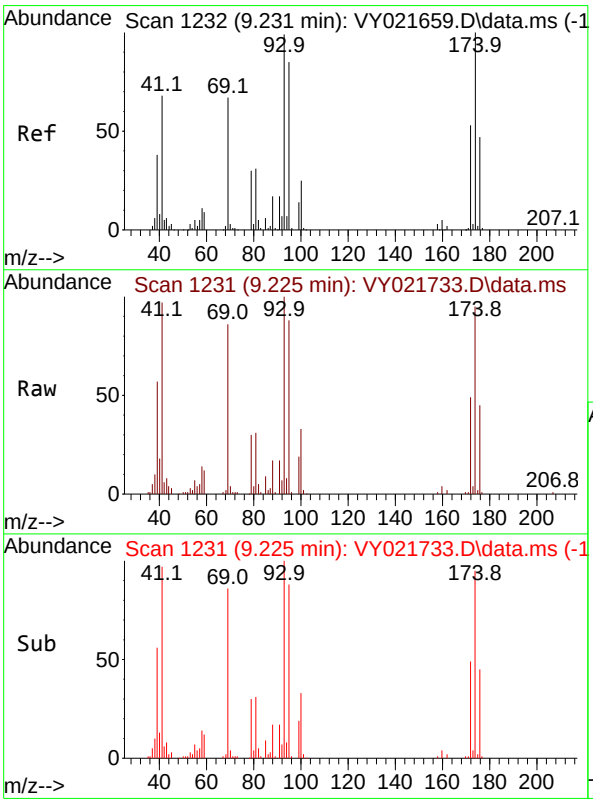
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

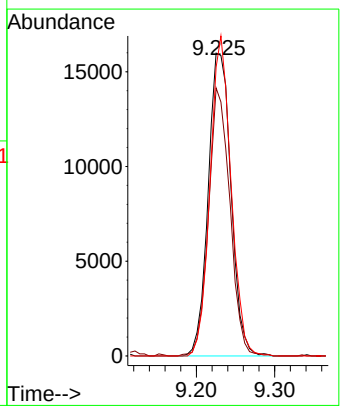
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

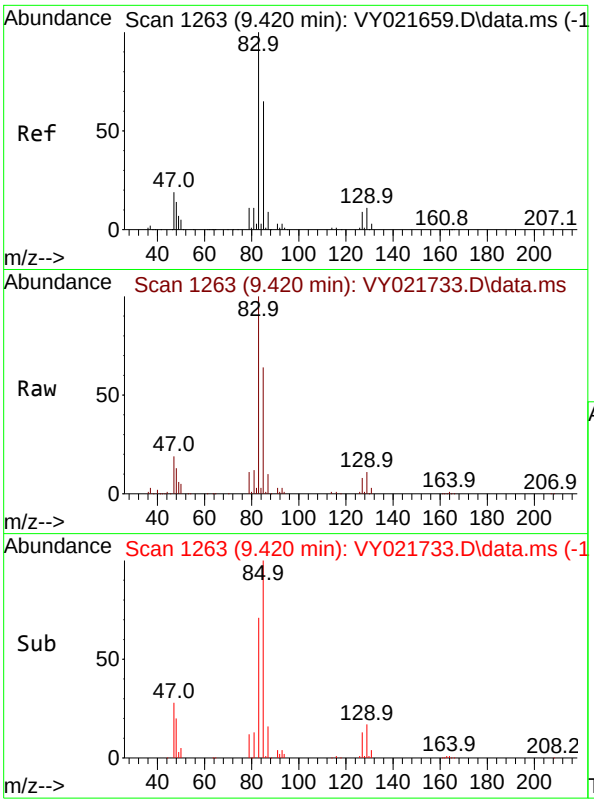


#46
Dibromomethane
Concen: 19.632 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 93 Resp: 32300

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.1	102.1
174	97.2	80.9	121.3

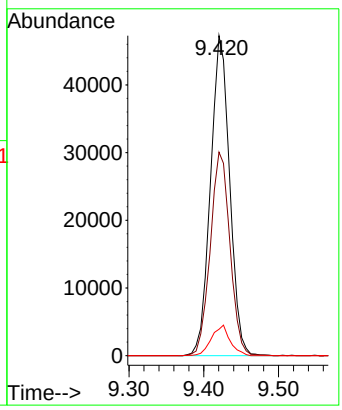




#47
Bromodichloromethane
Concen: 19.707 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 83 Resp: 8401

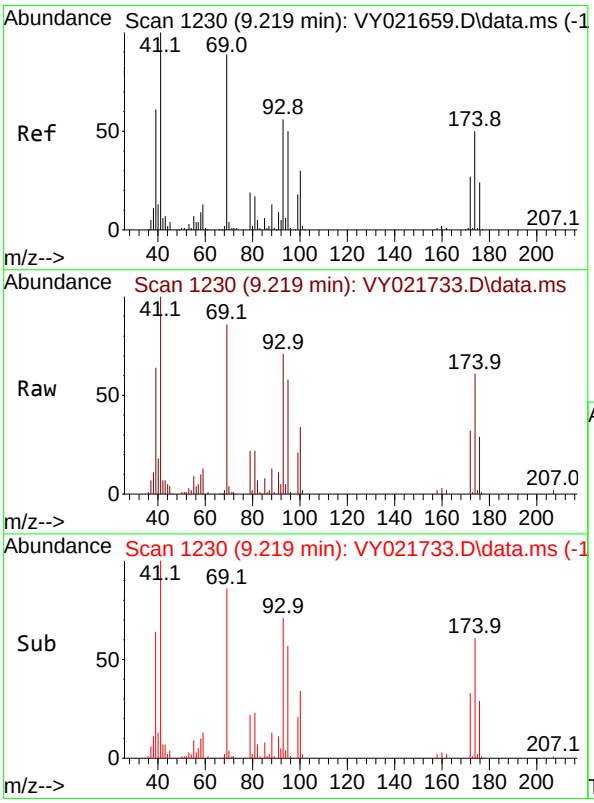
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.6
127	8.2	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

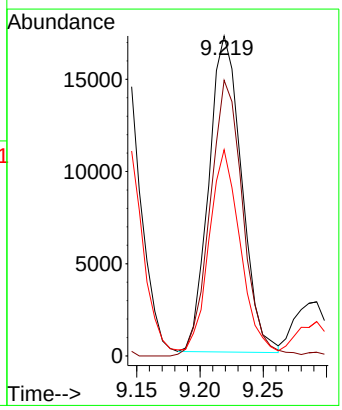
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

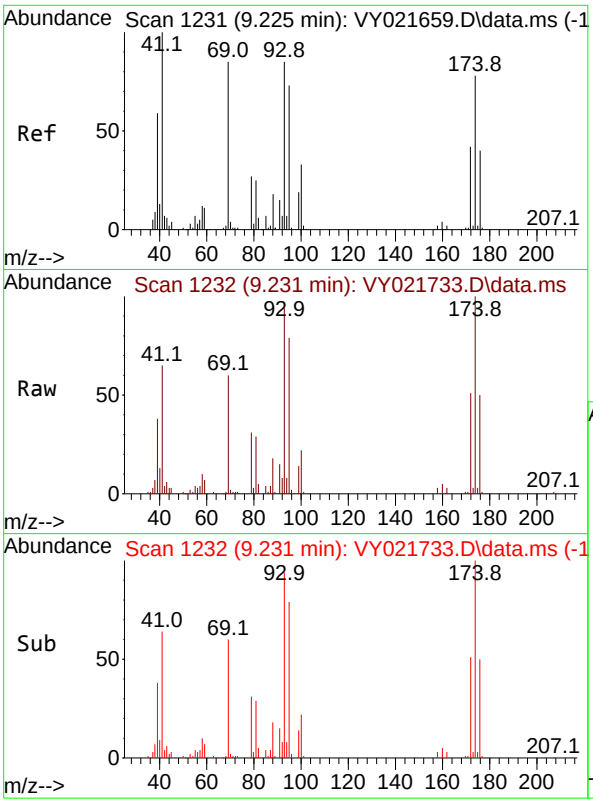


#48
Methyl methacrylate
Concen: 18.696 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 41 Resp: 30905

Ion	Ratio	Lower	Upper
41	100		
69	87.4	69.8	104.8
39	59.4	47.2	70.8

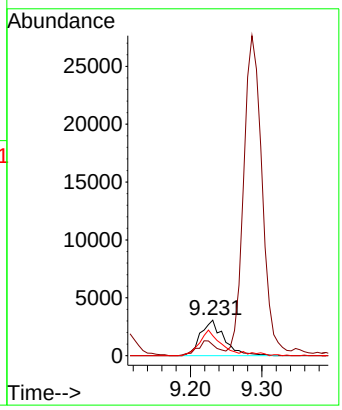




#49
1,4-Dioxane
Concen: 398.466 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 88 Resp: 702

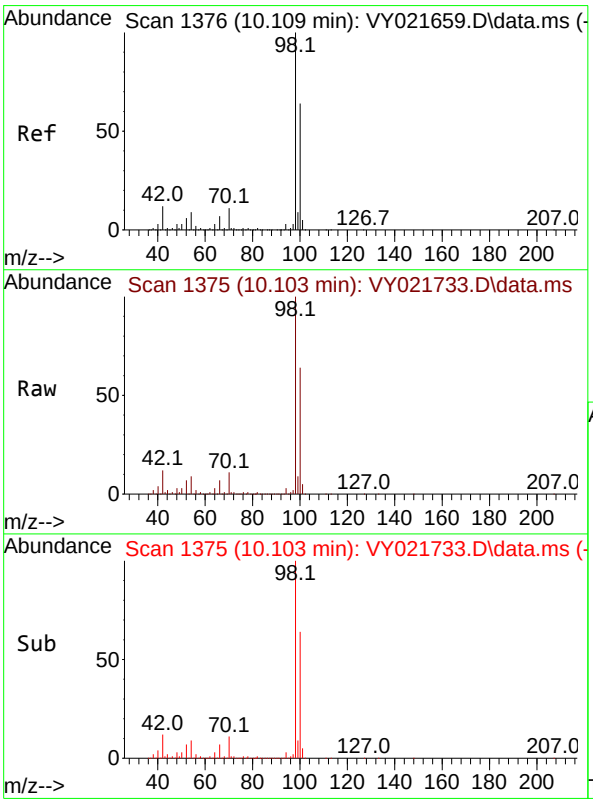
Ion	Ratio	Lower	Upper
88	100		
43	35.2	28.8	43.2
58	70.3	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

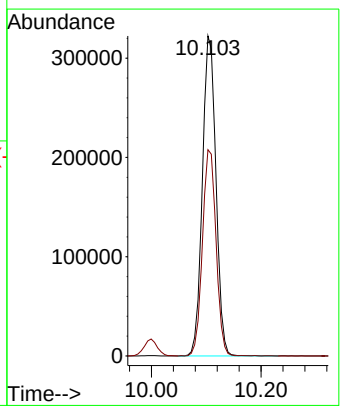
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

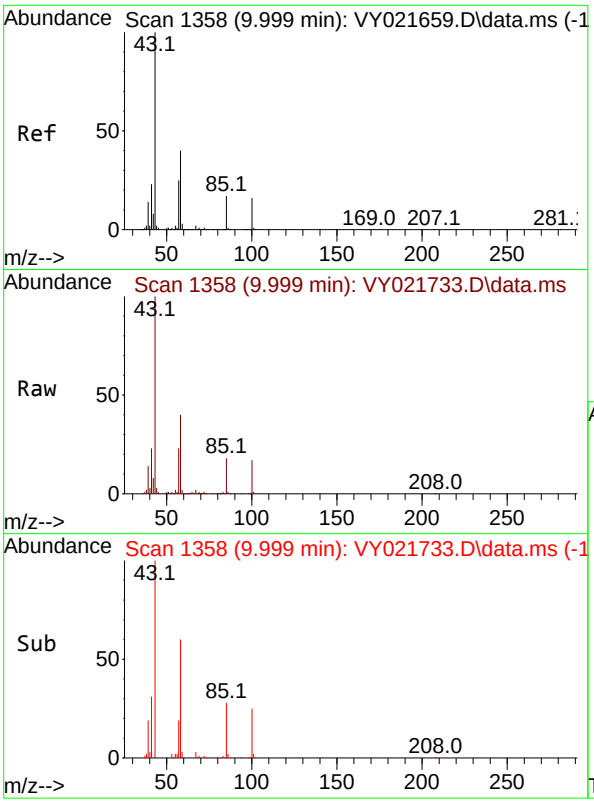


#50
Toluene-d8
Concen: 54.931 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 98 Resp: 552526

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1

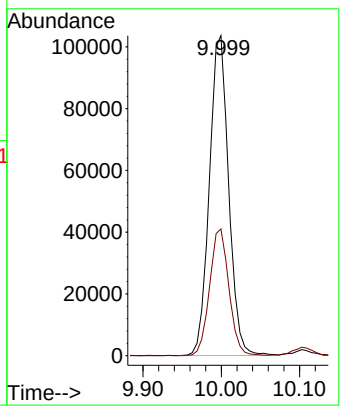




#51
4-Methyl-2-Pentanone
Concen: 94.559 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 17723

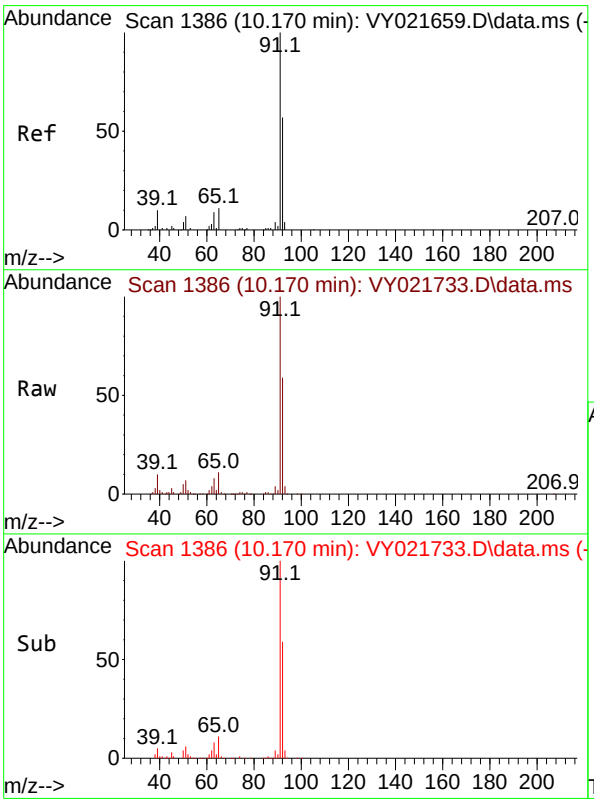
Ion	Ratio	Lower	Upper
43	100		
58	39.7	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

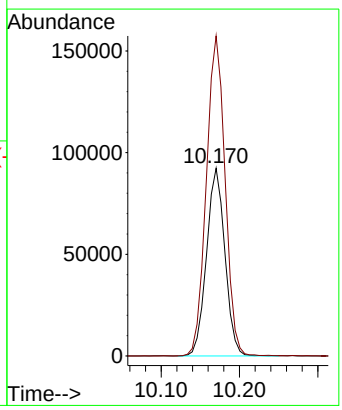
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

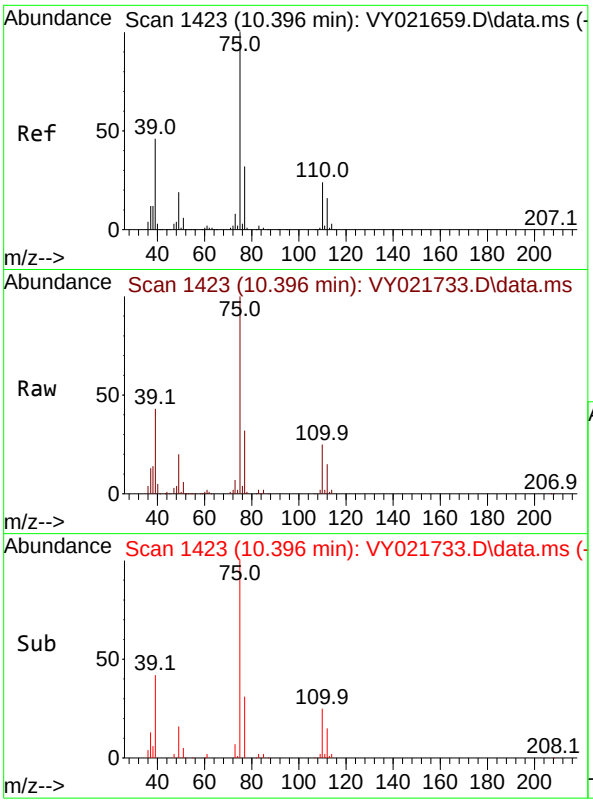


#52
Toluene
Concen: 19.974 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 92 Resp: 150299

Ion	Ratio	Lower	Upper
92	100		
91	174.4	138.6	207.8

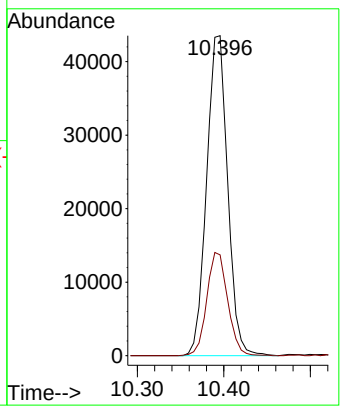




#53
t-1,3-Dichloropropene
Concen: 19.371 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 75 Resp: 7335

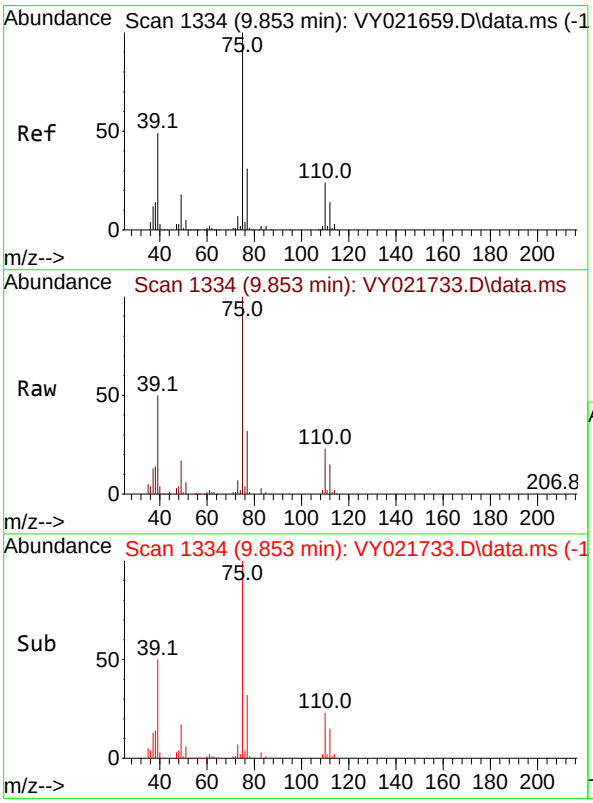
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

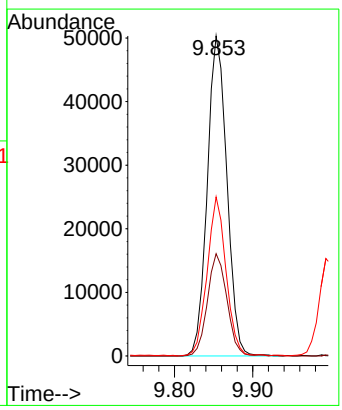
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

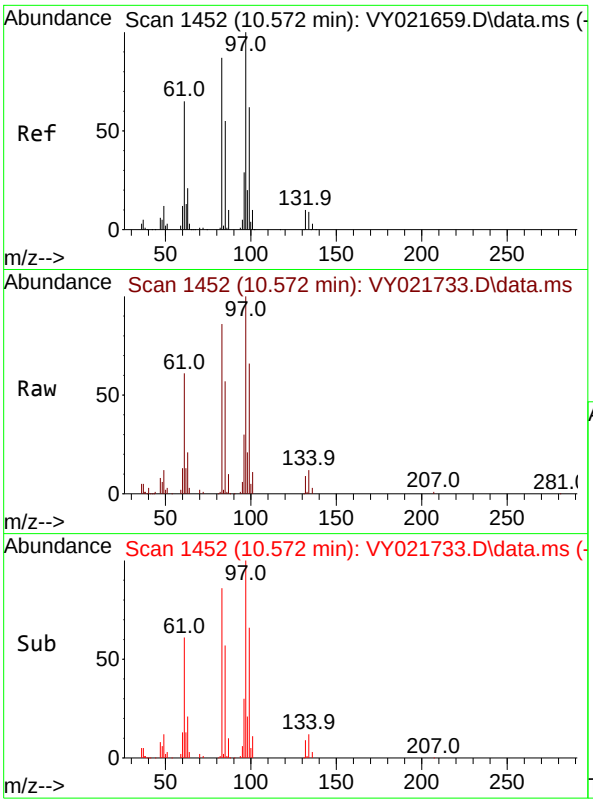


#54
cis-1,3-Dichloropropene
Concen: 19.495 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 75 Resp: 87090

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.9	37.3
39	49.7	39.2	58.8

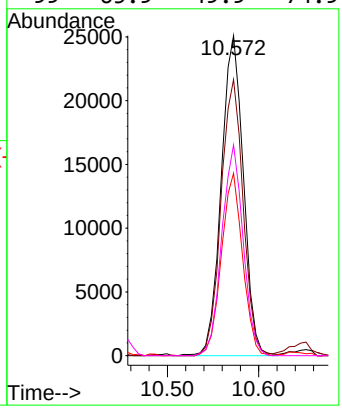




#55
1,1,2-Trichloroethane
Concen: 19.958 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 97 Resp: 4225

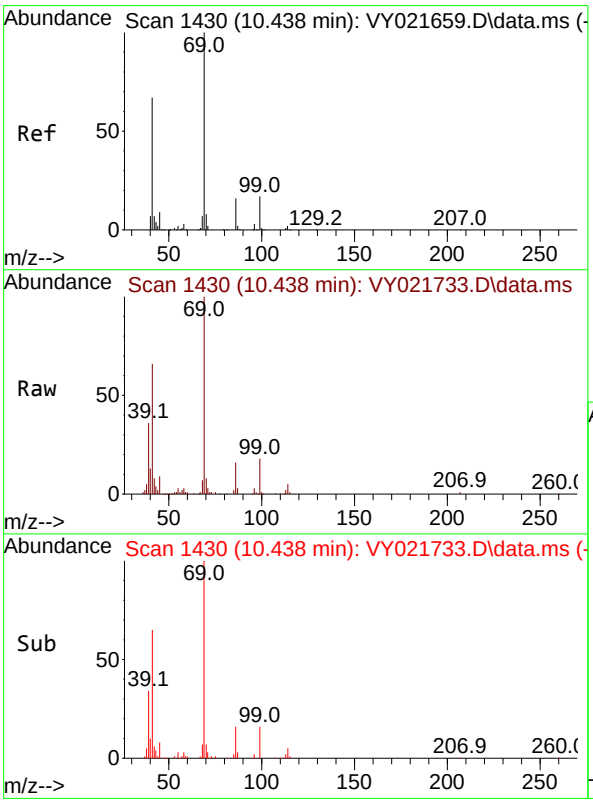
Ion	Ratio	Lower	Upper
97	100		
83	86.3	69.5	104.3
85	57.0	43.9	65.9
99	65.9	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

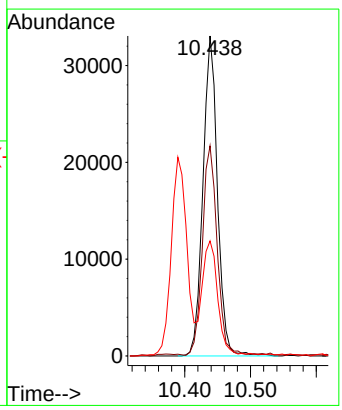
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

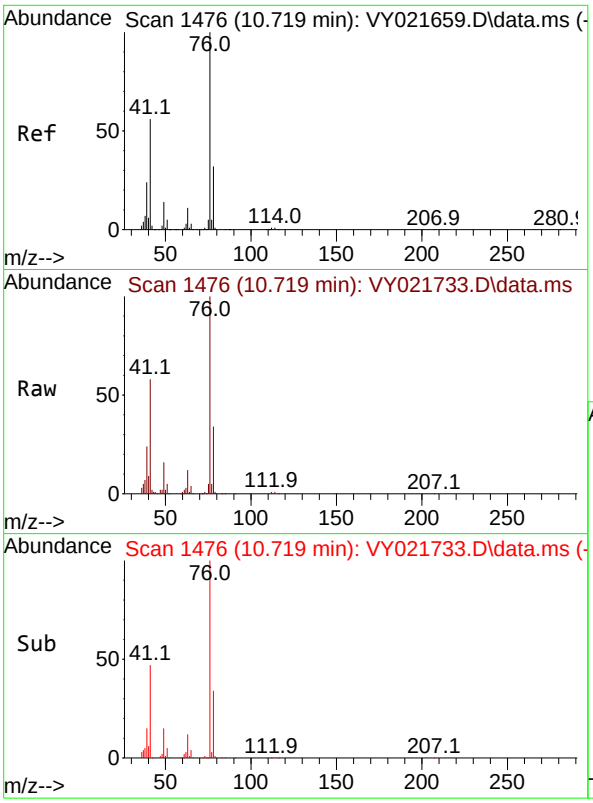


#56
Ethyl methacrylate
Concen: 18.811 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 69 Resp: 50856

Ion	Ratio	Lower	Upper
69	100		
41	66.4	53.8	80.6
39	39.1	29.6	44.4

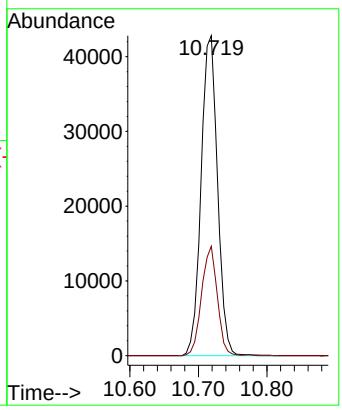




#57
1,3-Dichloropropane
Concen: 19.553 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 76 Resp: 7149

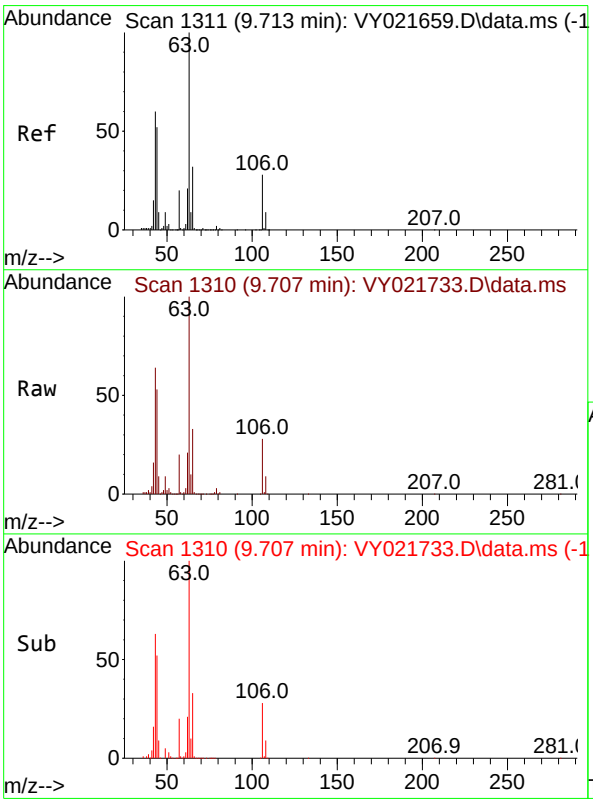
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

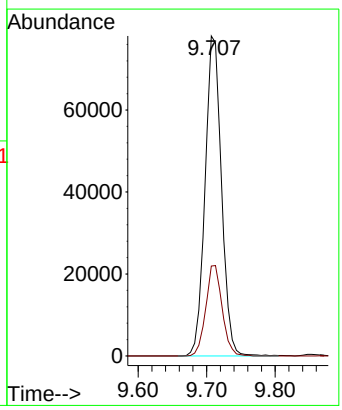
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

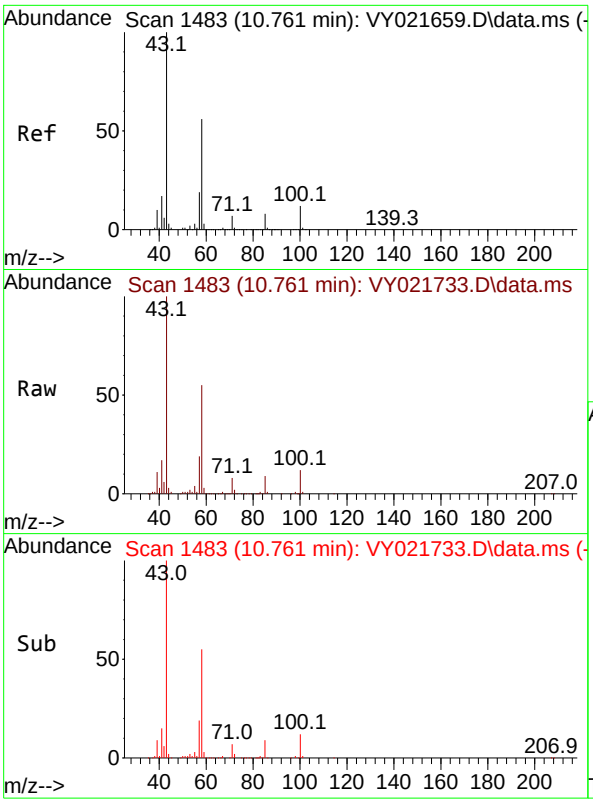


#58
2-Chloroethyl Vinyl ether
Concen: 98.652 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 63 Resp: 130109

Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.4	33.6





#59
2-Hexanone
Concen: 94.881 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

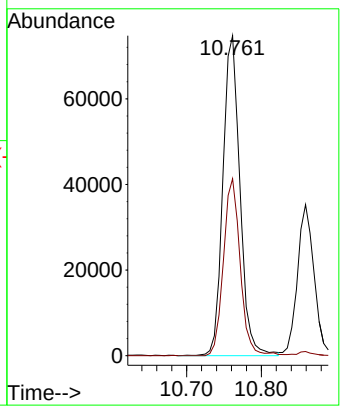
Tgt Ion: 43 Resp: 11843

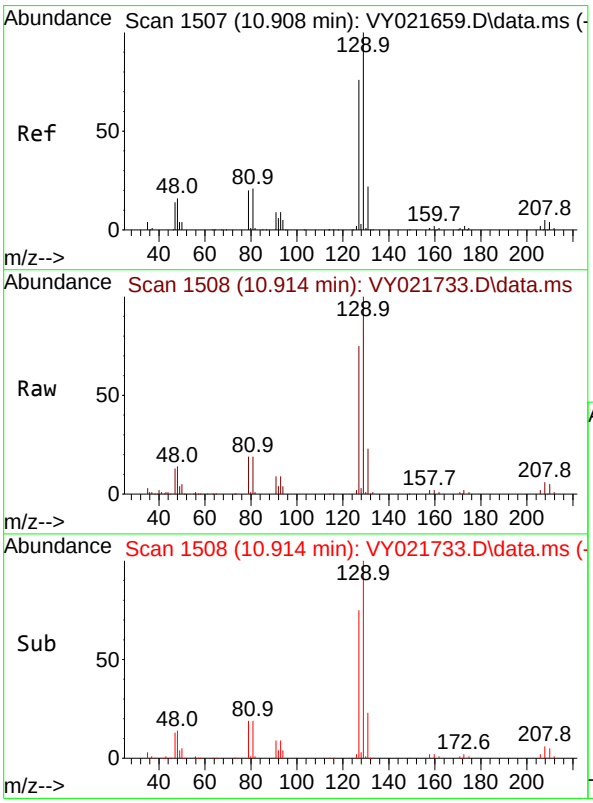
Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

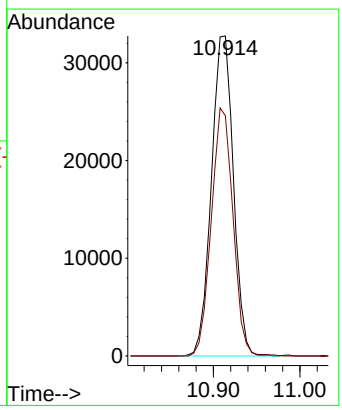


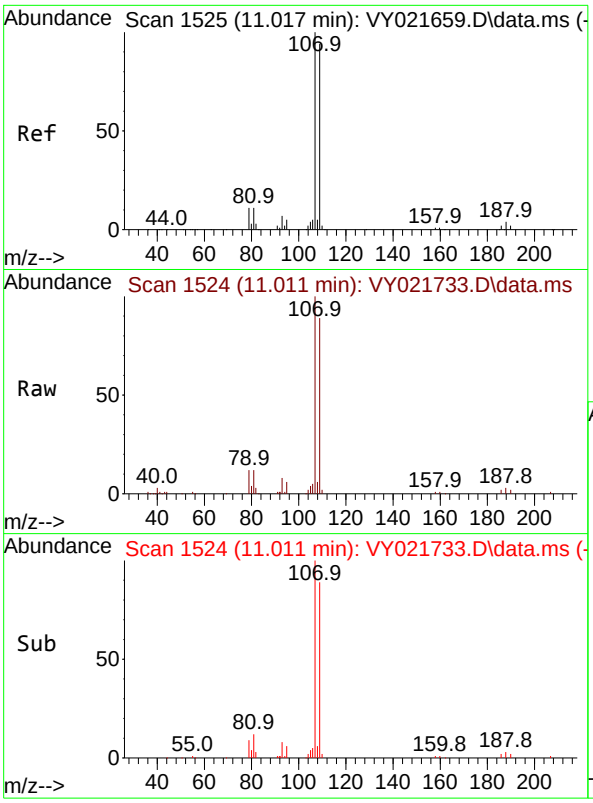


#60
Dibromochloromethane
Concen: 19.981 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:129 Resp: 57761

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.6	115.7

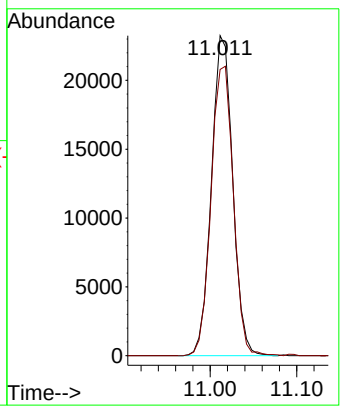




#61
1,2-Dibromoethane
Concen: 19.954 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:107 Resp: 3963

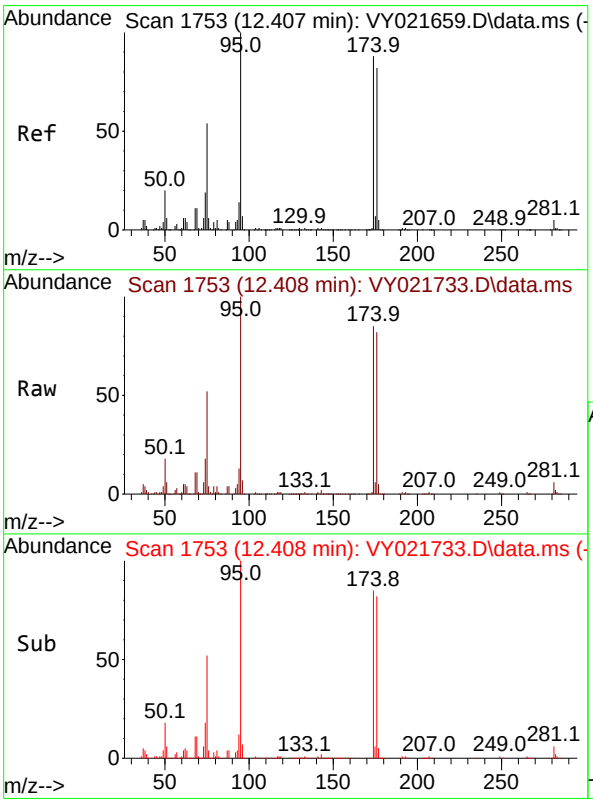
Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

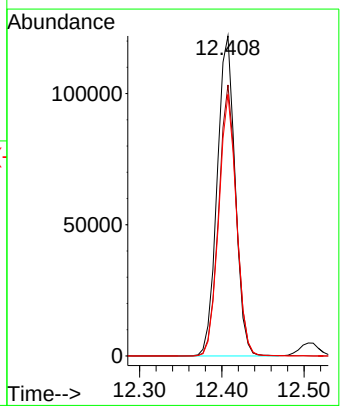
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

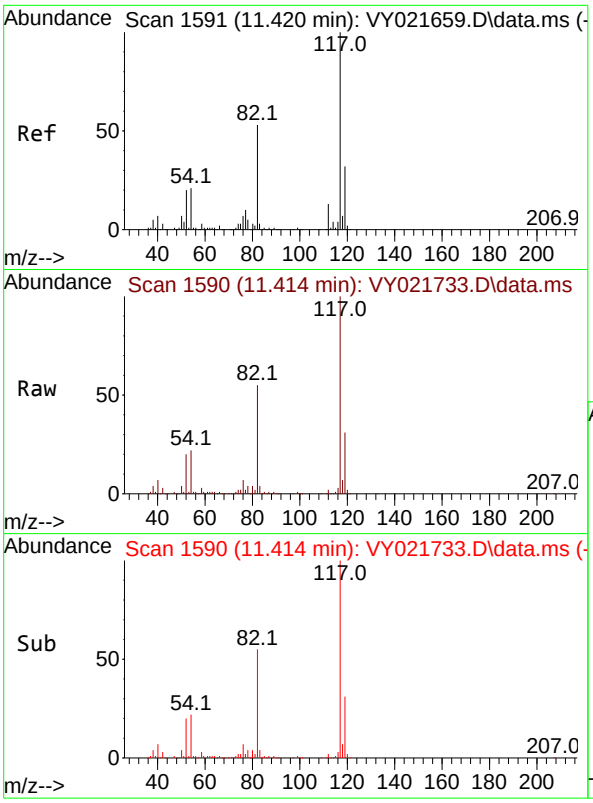


#62
4-Bromofluorobenzene
Concen: 54.320 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 95 Resp: 184811

Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	170.8
176	80.2	0.0	162.0

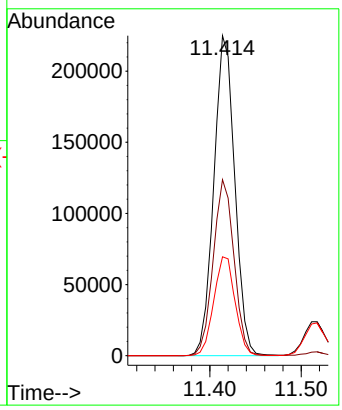




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:117 Resp: 35834

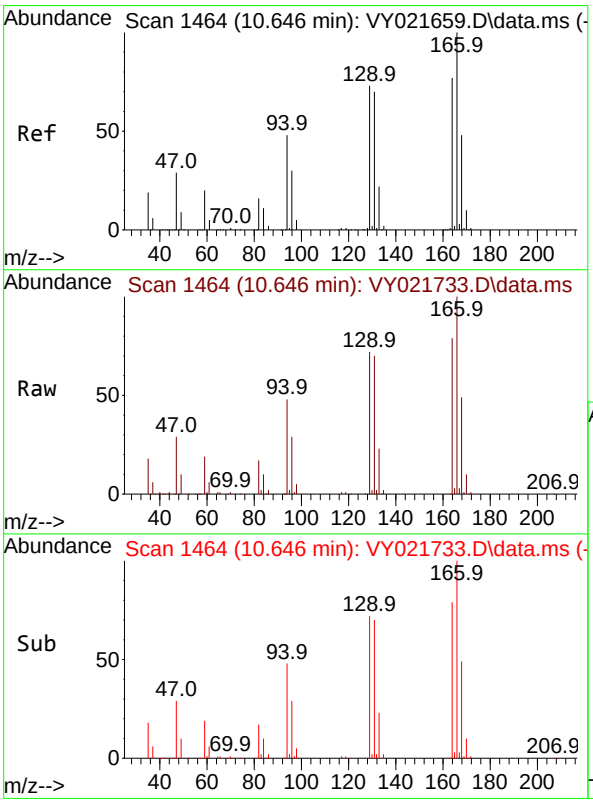
Ion	Ratio	Lower	Upper
117	100		
82	55.0	42.8	64.2
119	30.9	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

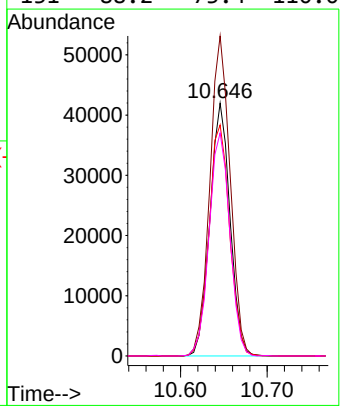
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

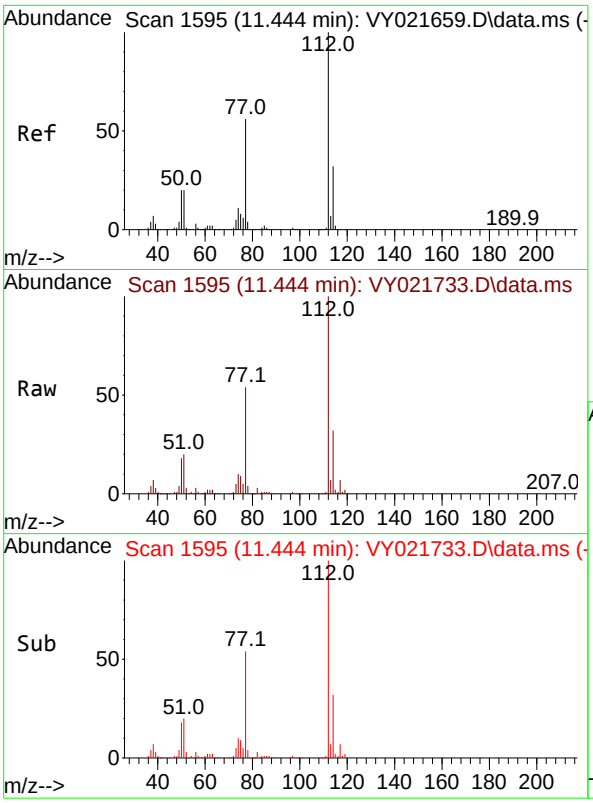


#64
Tetrachloroethene
Concen: 20.770 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:164 Resp: 67787

Ion	Ratio	Lower	Upper
164	100		
166	126.6	104.6	156.8
129	91.4	76.6	114.8
131	88.2	73.4	110.0

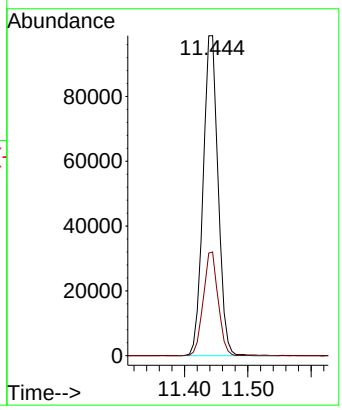




#65
Chlorobenzene
Concen: 19.863 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:112 Resp: 16316

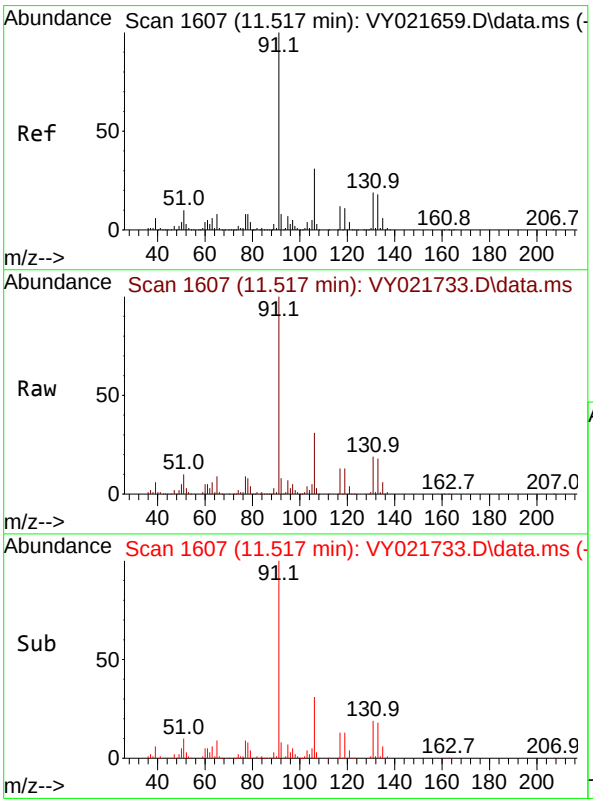
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

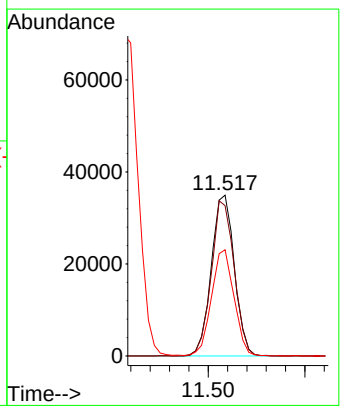
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

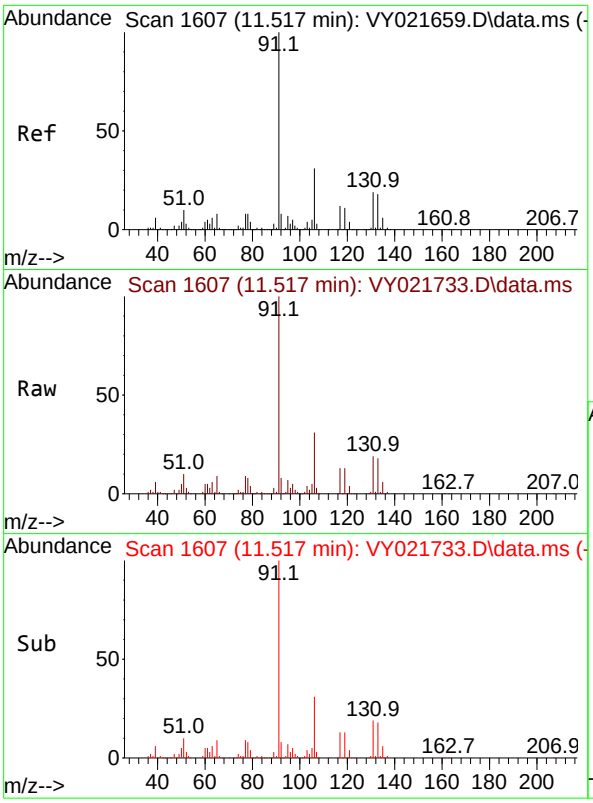


#66
1,1,1,2-Tetrachloroethane
Concen: 19.825 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:131 Resp: 57780

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	141.8
119	64.7	31.6	95.0

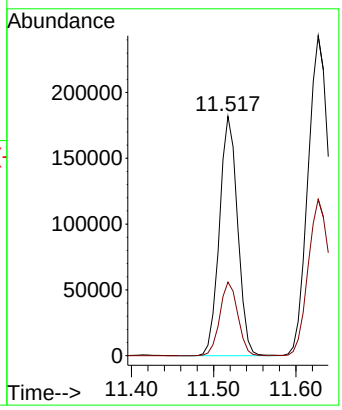




#67
Ethyl Benzene
Concen: 19.829 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 91 Resp: 27931

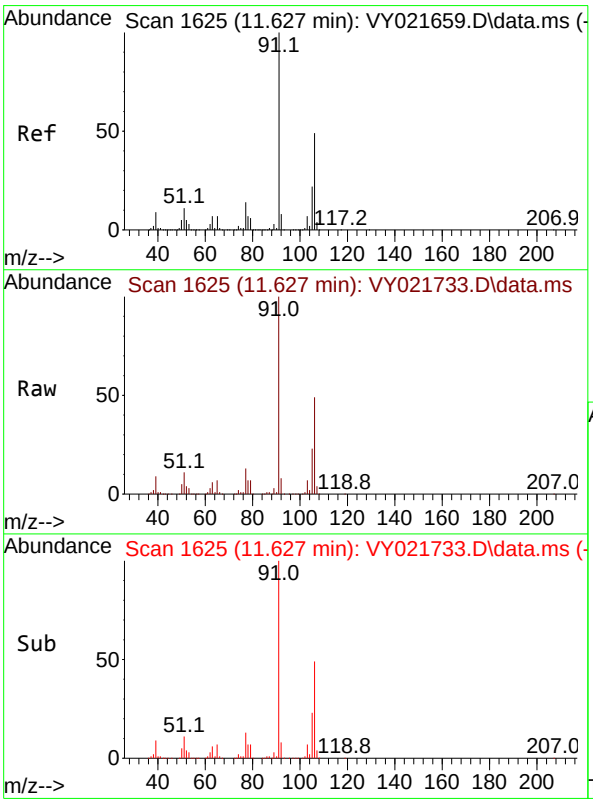
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

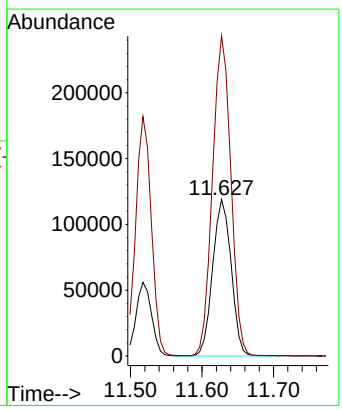
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

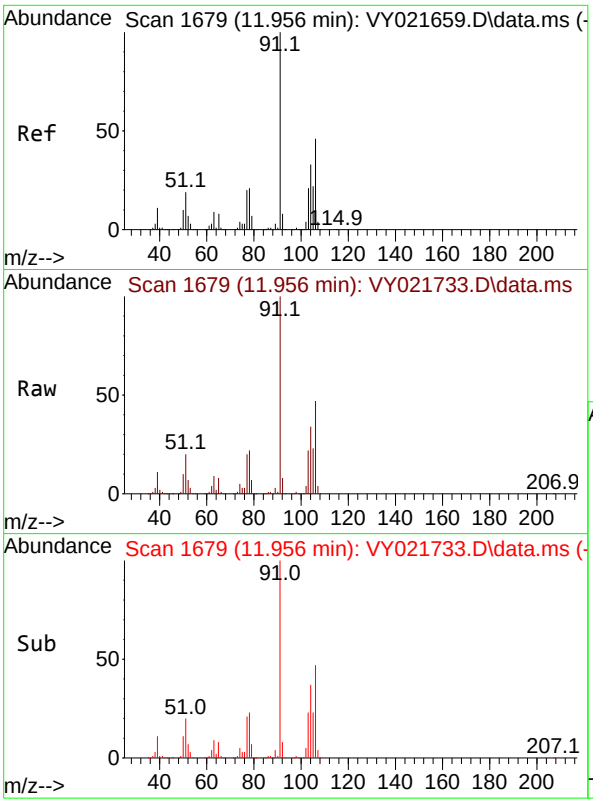


#68
m/p-Xylenes
Concen: 39.525 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:106 Resp: 213197

Ion	Ratio	Lower	Upper
106	100		
91	204.1	162.4	243.6





#69
o-Xylene
Concen: 19.962 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

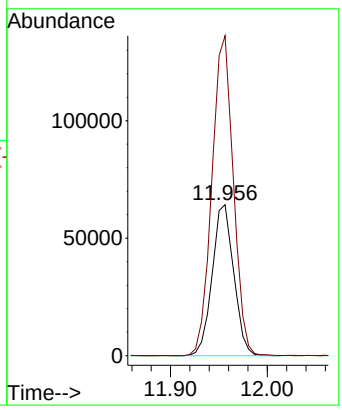
Tgt Ion:106 Resp: 9939

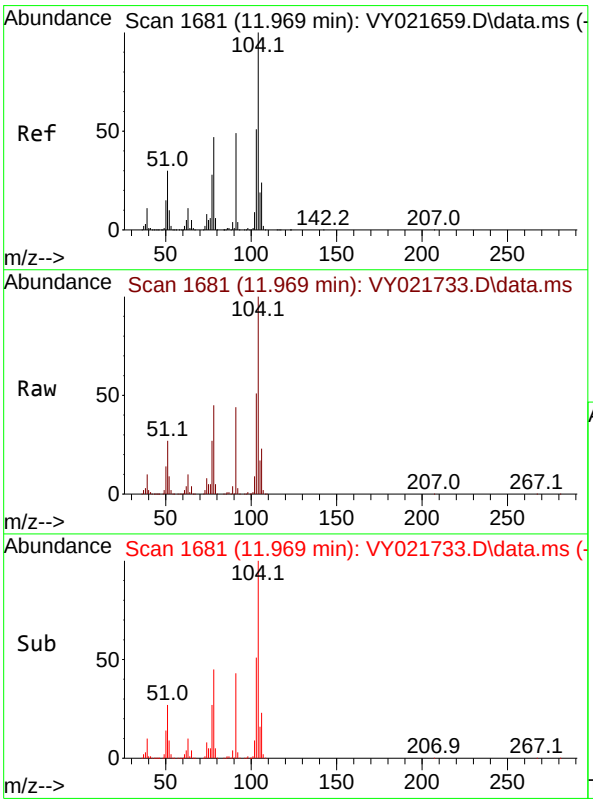
Ion	Ratio	Lower	Upper
106	100		
91	211.0	106.7	319.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

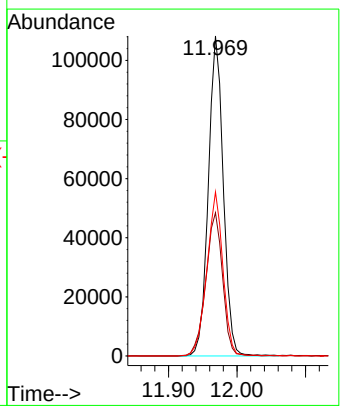


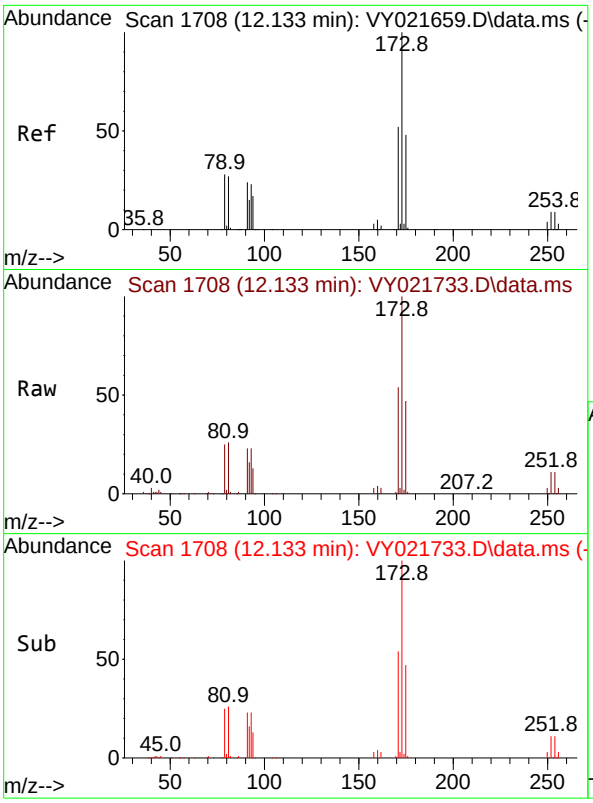


#70
Styrene
Concen: 19.872 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:104 Resp: 164968

Ion	Ratio	Lower	Upper
104	100		
78	49.8	40.8	61.2
103	55.1	44.2	66.2

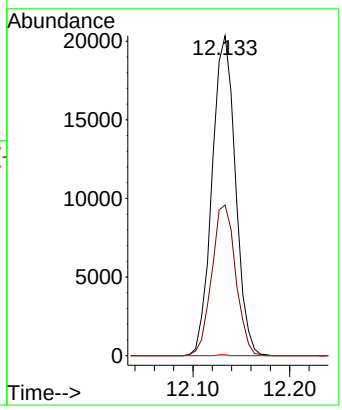




#71
Bromoform
Concen: 20.501 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:173 Resp: 3408

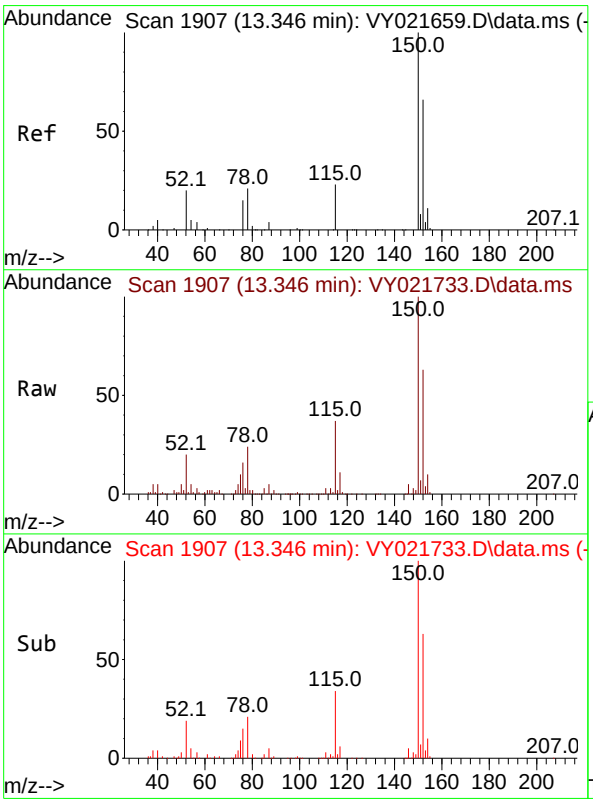
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	73.0
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

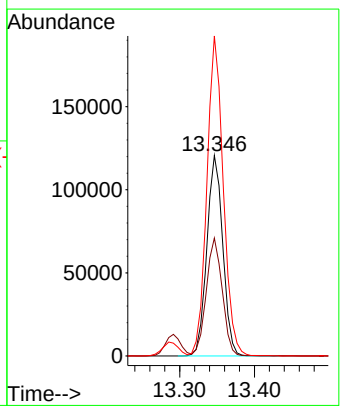
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

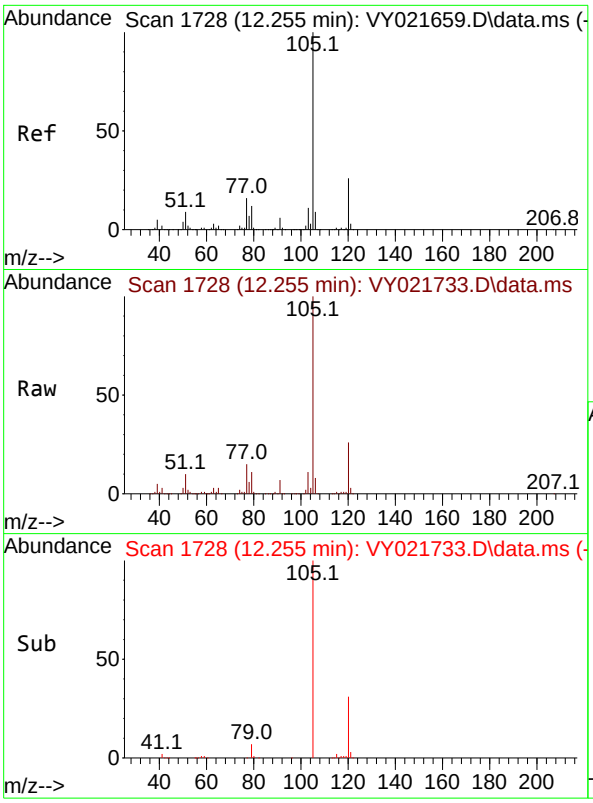


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:152 Resp: 179014

Ion	Ratio	Lower	Upper
152	100		
115	58.7	28.8	86.5
150	164.1	0.0	348.4

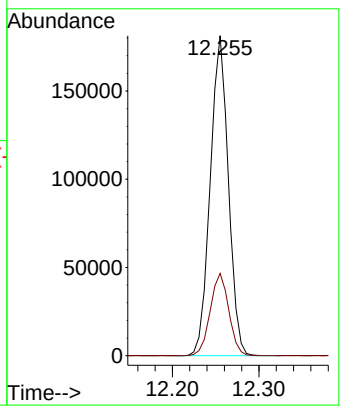




#73
Isopropylbenzene
Concen: 19.814 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:105 Resp: 26344

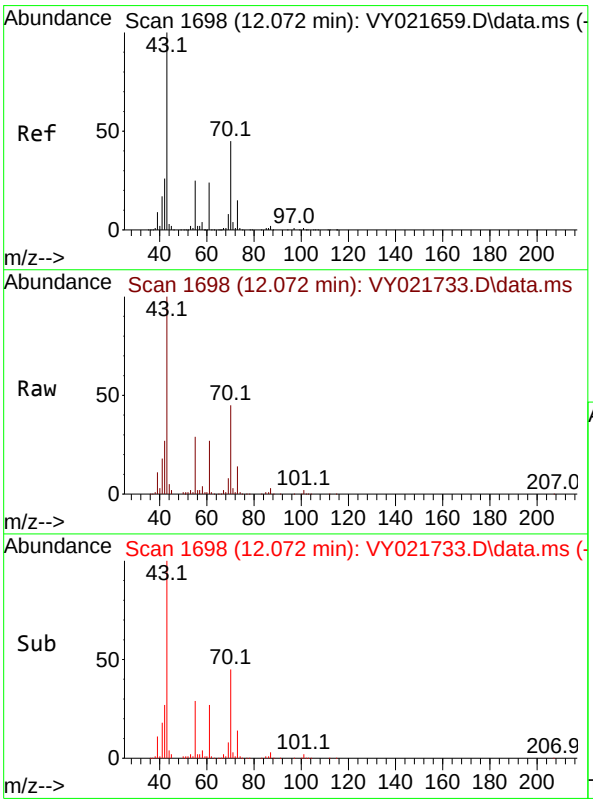
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

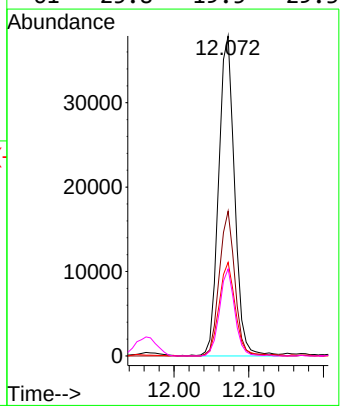
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

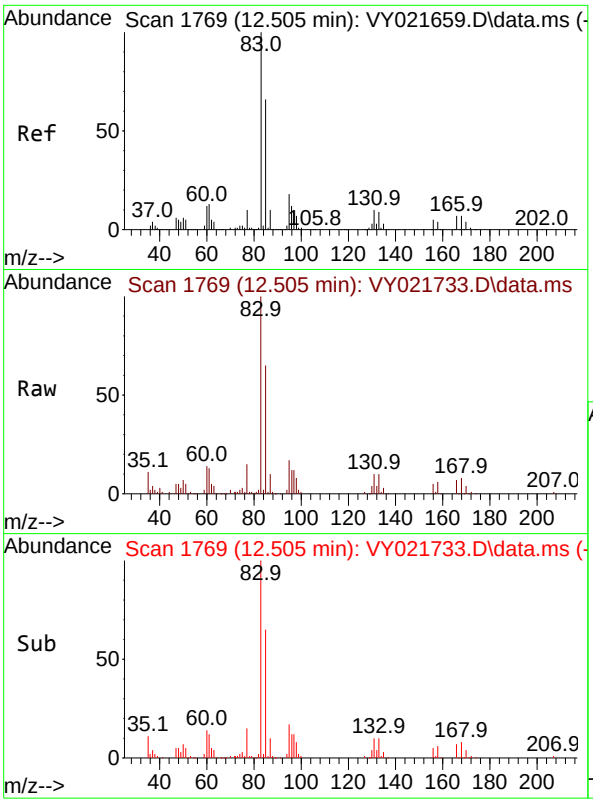


#74
N-amyl acetate
Concen: 18.029 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 43 Resp: 56258

Ion	Ratio	Lower	Upper
43	100		
70	44.2	34.7	52.1
55	30.1	21.2	31.8
61	25.8	19.5	29.3

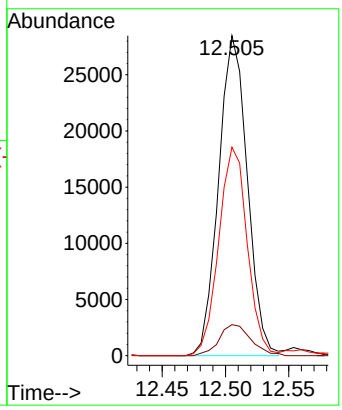




#75
1,1,2,2-Tetrachloroethane
Concen: 18.822 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 83 Resp: 4499

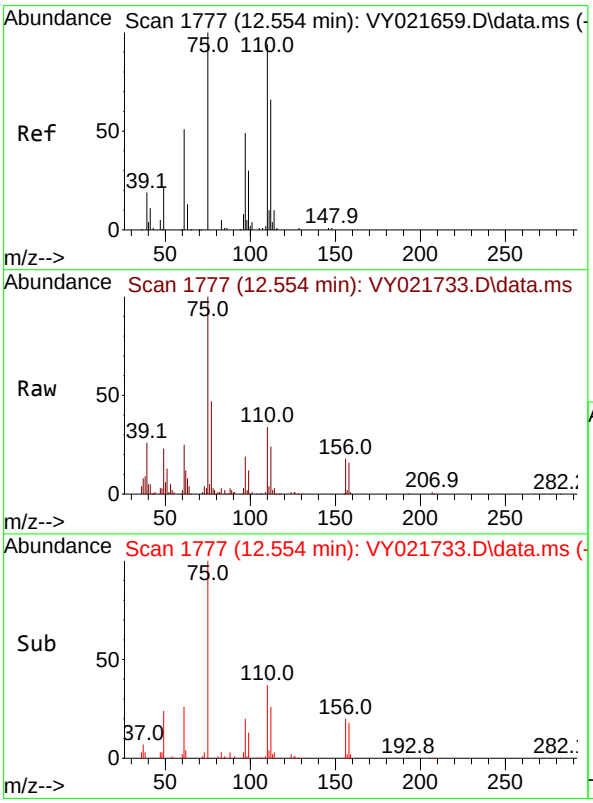
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.1	15.3
85	64.6	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

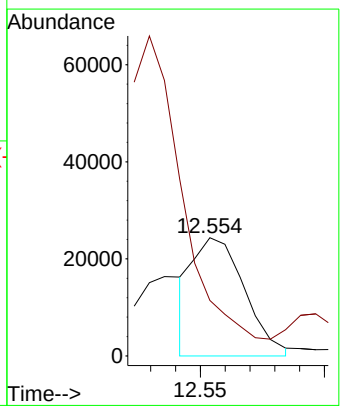
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

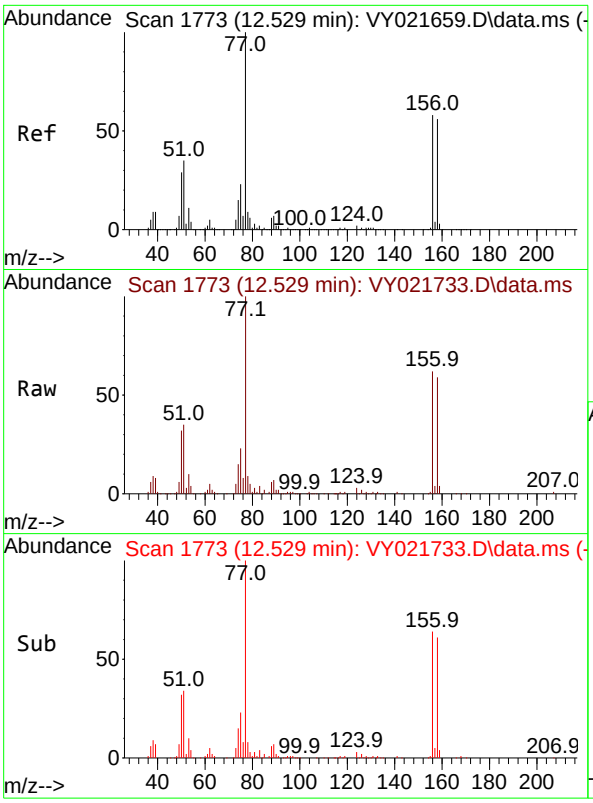


#76
1,2,3-Trichloropropane
Concen: 19.977 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 75 Resp: 35449

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

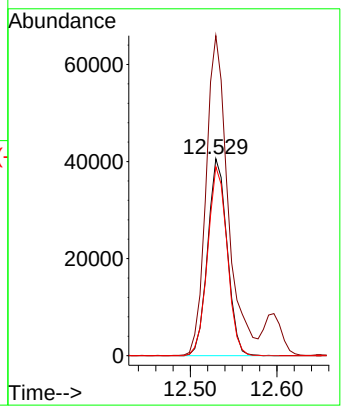




#77
Bromobenzene
Concen: 19.832 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:156 Resp: 6331

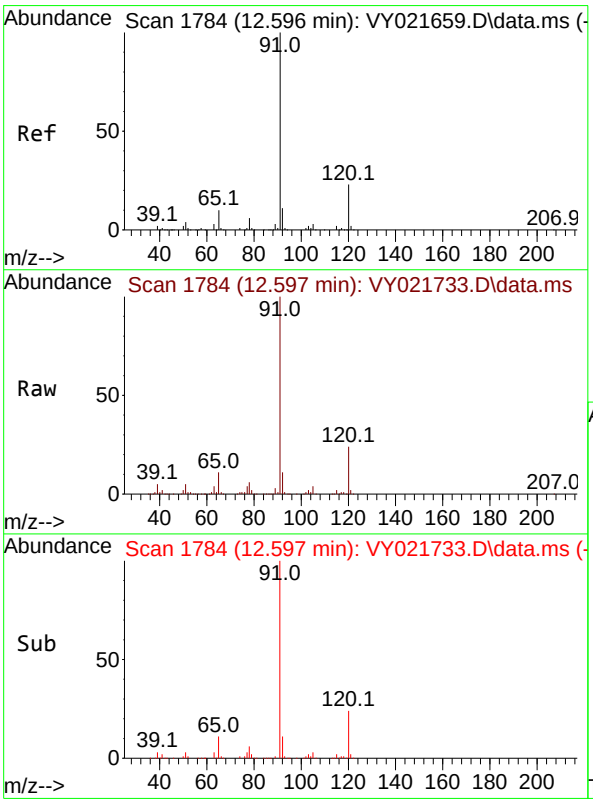
Ion	Ratio	Lower	Upper
156	100		
77	183.7	92.8	278.3
158	96.3	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

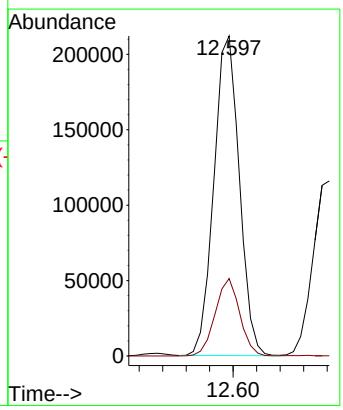
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

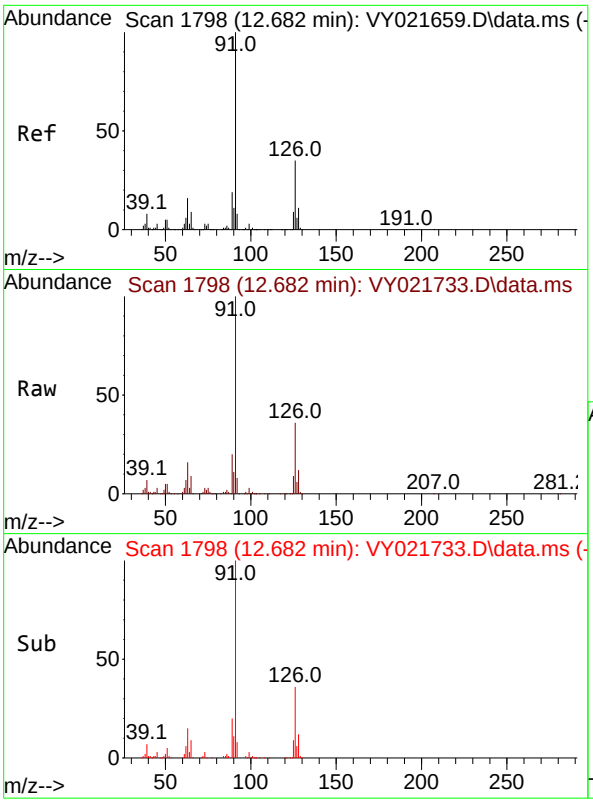


#78
n-propylbenzene
Concen: 19.954 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 91 Resp: 318964

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.3	33.9

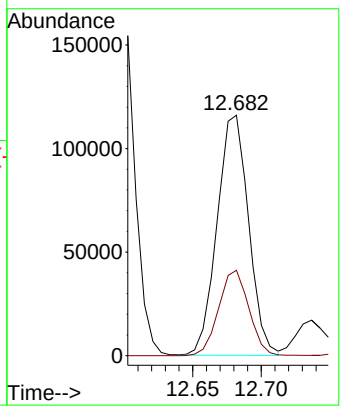




#79
2-Chlorotoluene
Concen: 19.986 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 91 Resp: 18555

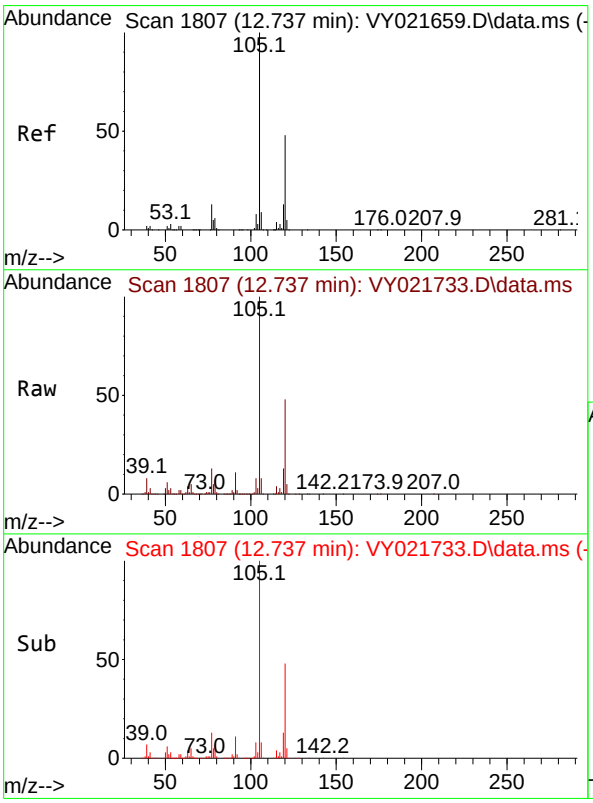
Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

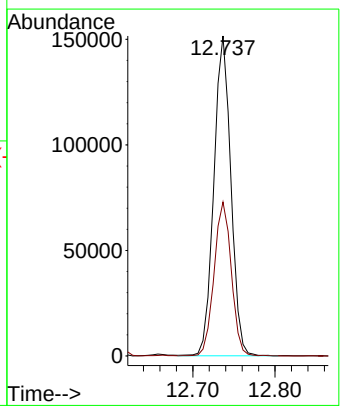
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

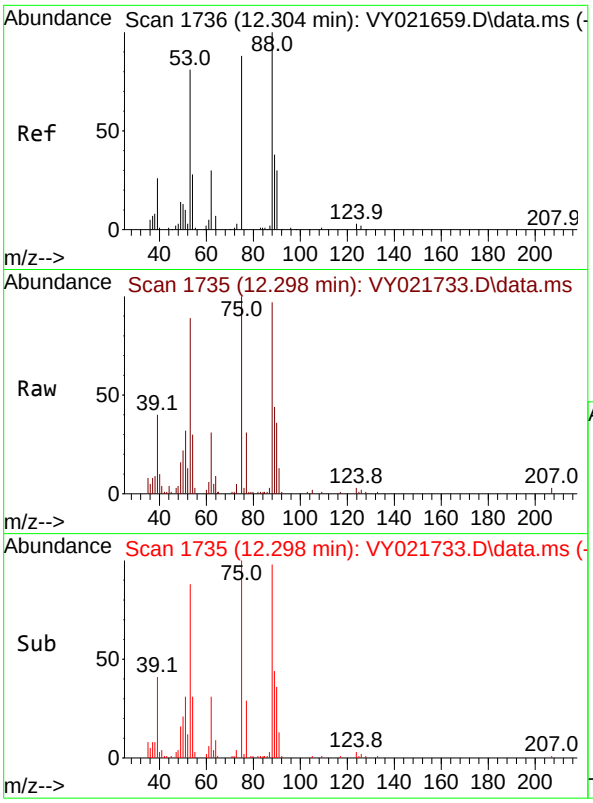


#80
1,3,5-Trimethylbenzene
Concen: 20.054 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:105 Resp: 217918

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.5	73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 18.443 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

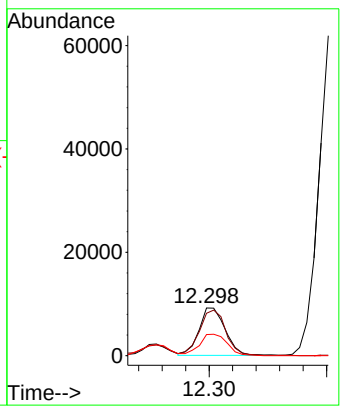
Tgt Ion: 75 Resp: 1420

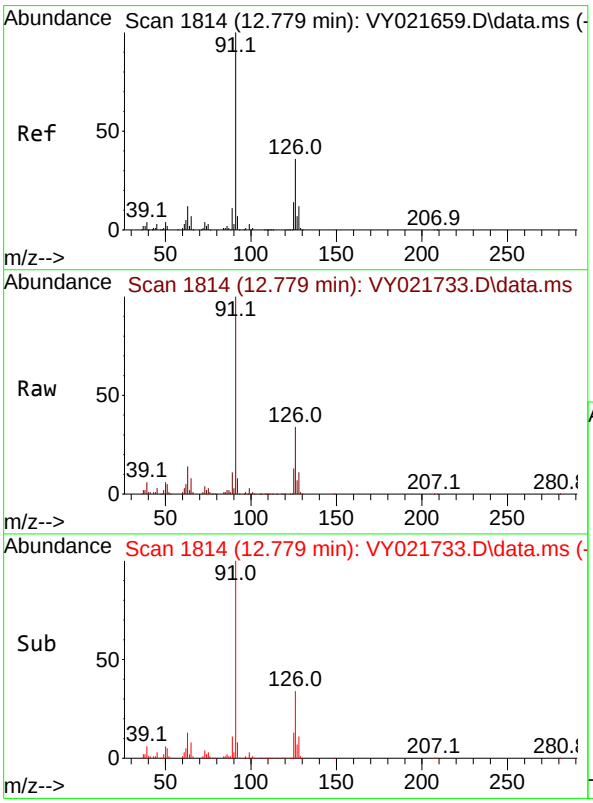
Ion	Ratio	Lower	Upper
75	100		
53	98.6	76.1	114.1
89	47.3	36.2	54.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

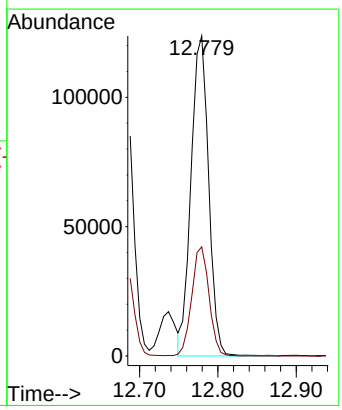


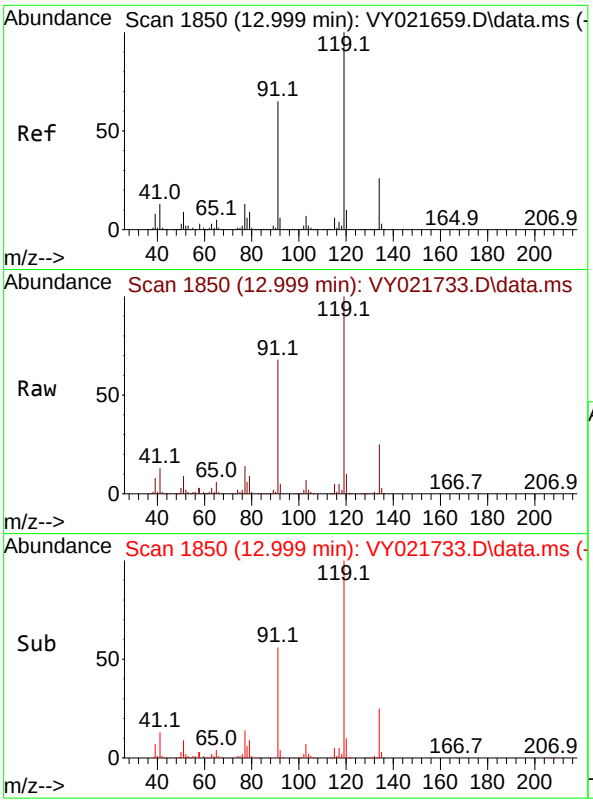


#82
4-Chlorotoluene
Concen: 19.999 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 91 Resp: 193577

Ion	Ratio	Lower	Upper
91	100		
126	33.6	17.0	50.9

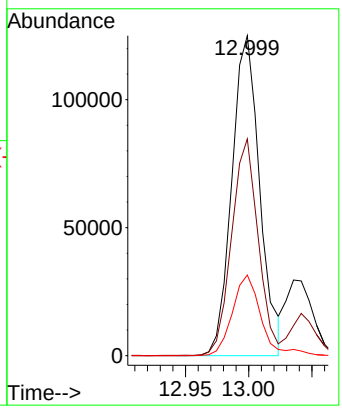




#83
tert-Butylbenzene
Concen: 19.845 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:119 Resp: 19208

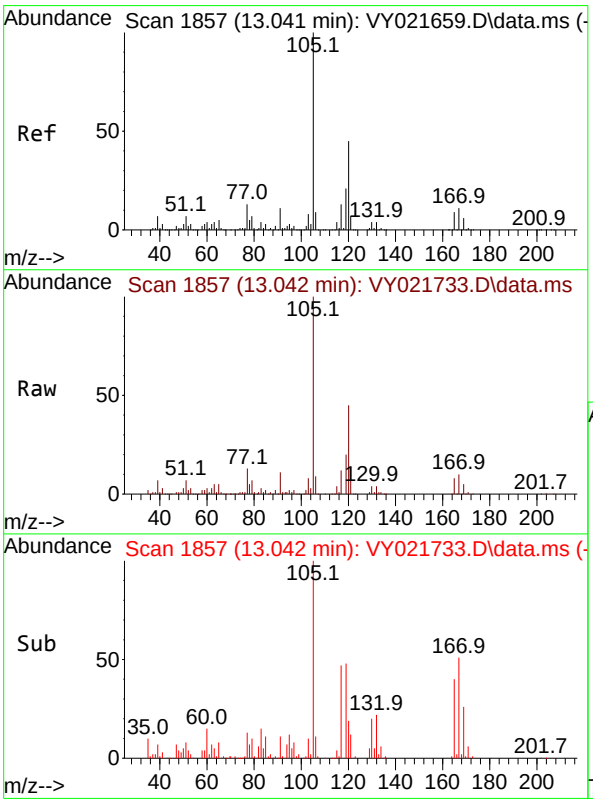
Ion	Ratio	Lower	Upper
119	100		
91	64.9	32.6	97.7
134	26.0	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

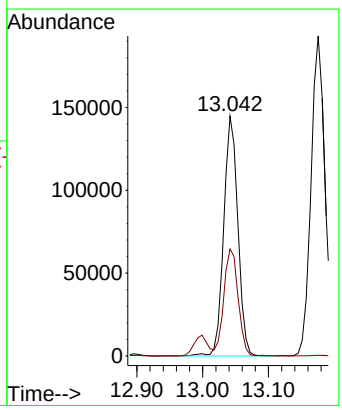
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

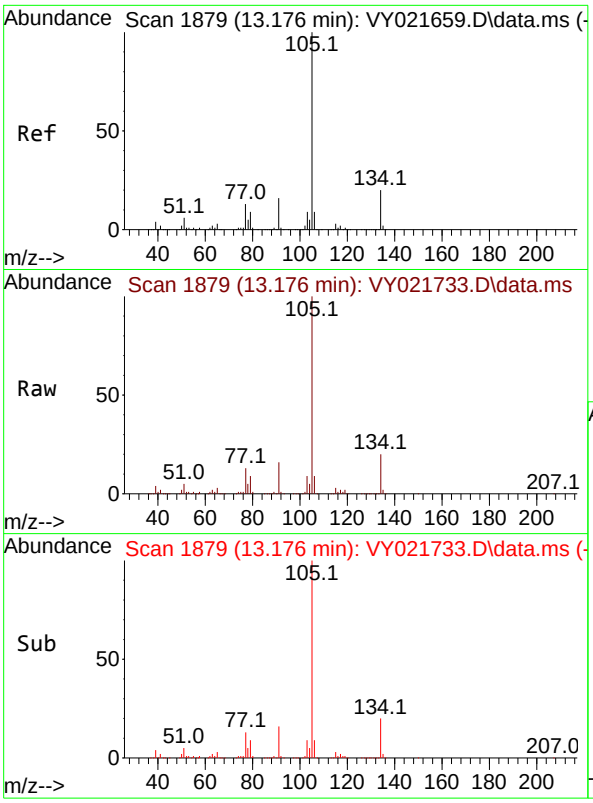


#84
1,2,4-Trimethylbenzene
Concen: 20.175 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:105 Resp: 216682

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.7	68.1

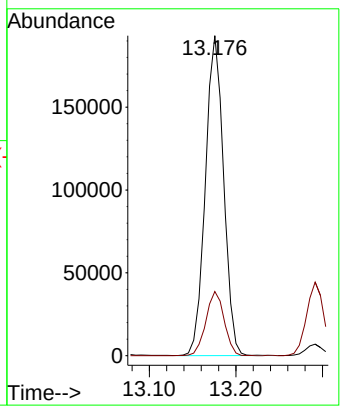




#85
sec-Butylbenzene
Concen: 19.971 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:105 Resp: 28249

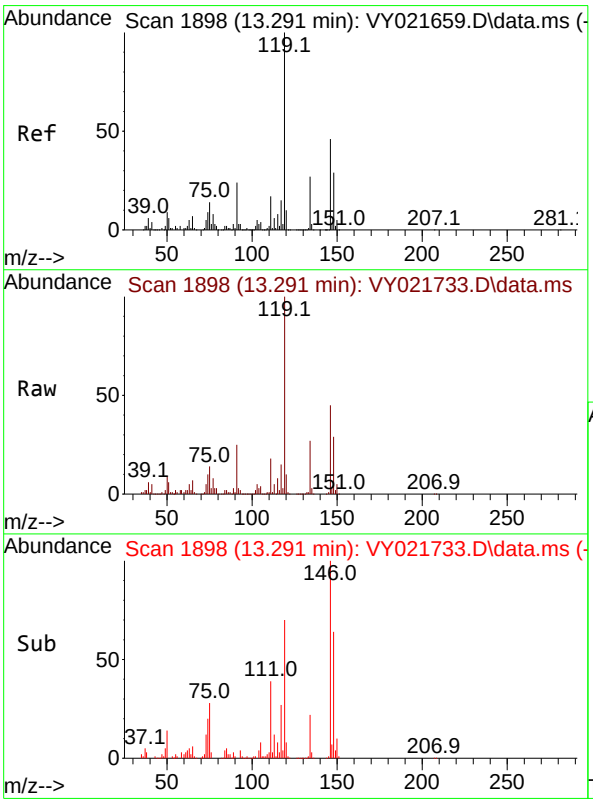
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

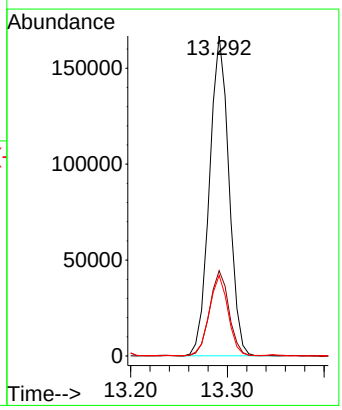
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

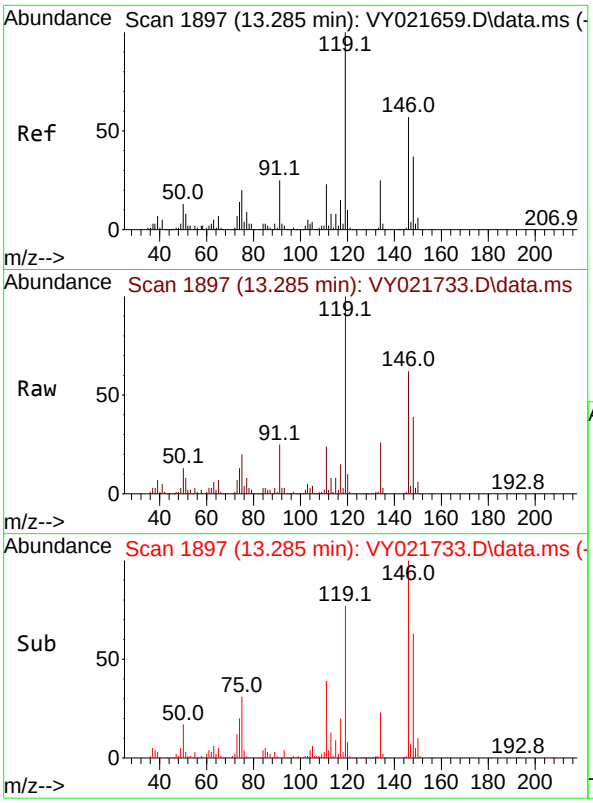


#86
p-Isopropyltoluene
Concen: 19.909 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:119 Resp: 232750

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.5
91	24.3	12.0	36.0

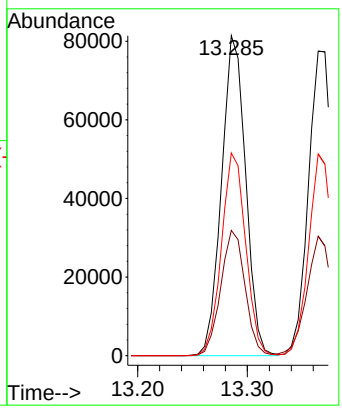




#87
1,3-Dichlorobenzene
Concen: 19.765 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:146 Resp: 12431

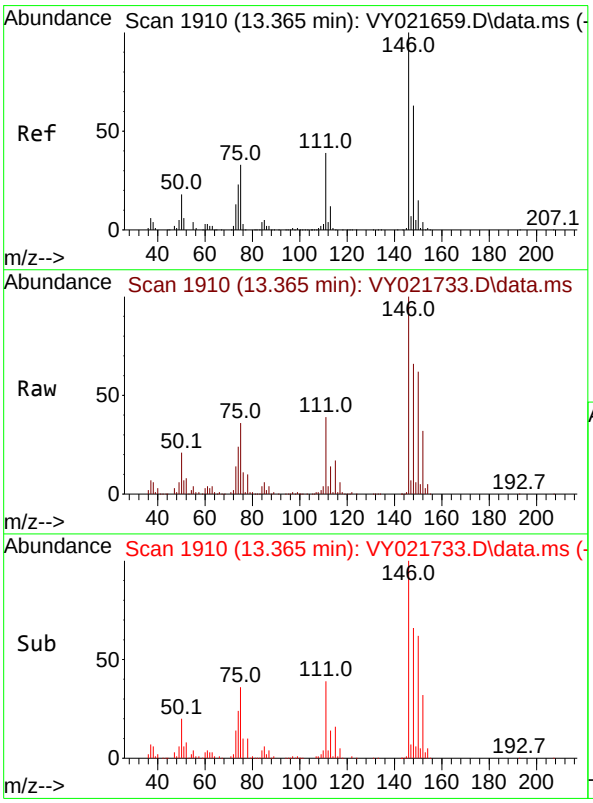
Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.0	60.0
148	63.6	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations APPROVED

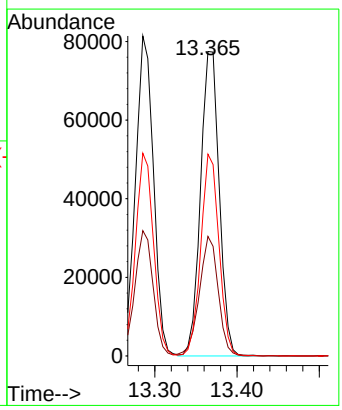
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

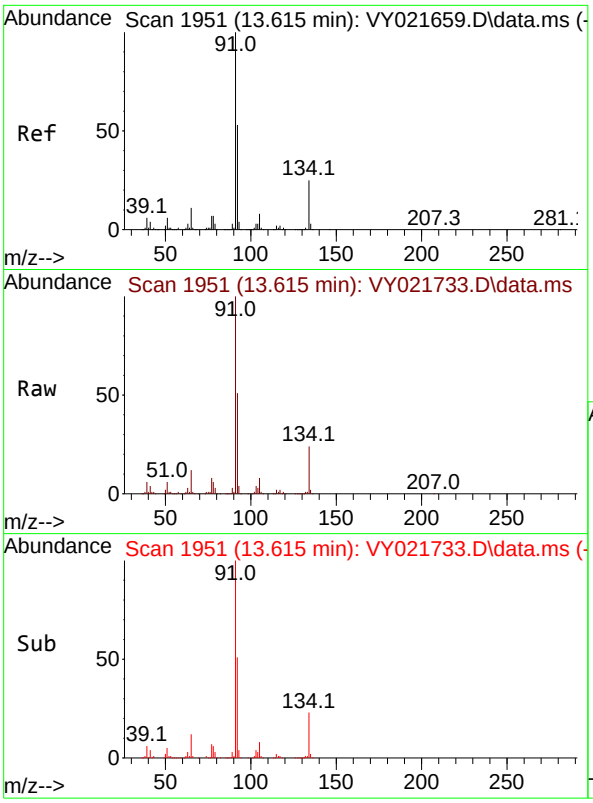


#88
1,4-Dichlorobenzene
Concen: 19.714 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:146 Resp: 122507

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.1	57.1
148	64.5	31.5	94.5

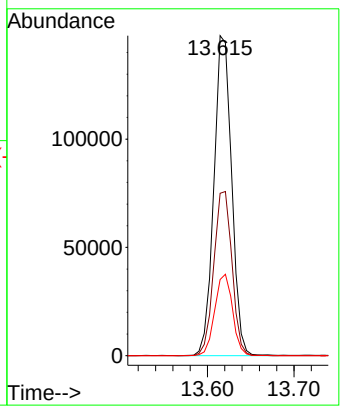




#89
n-Butylbenzene
Concen: 19.504 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 91 Resp: 21087

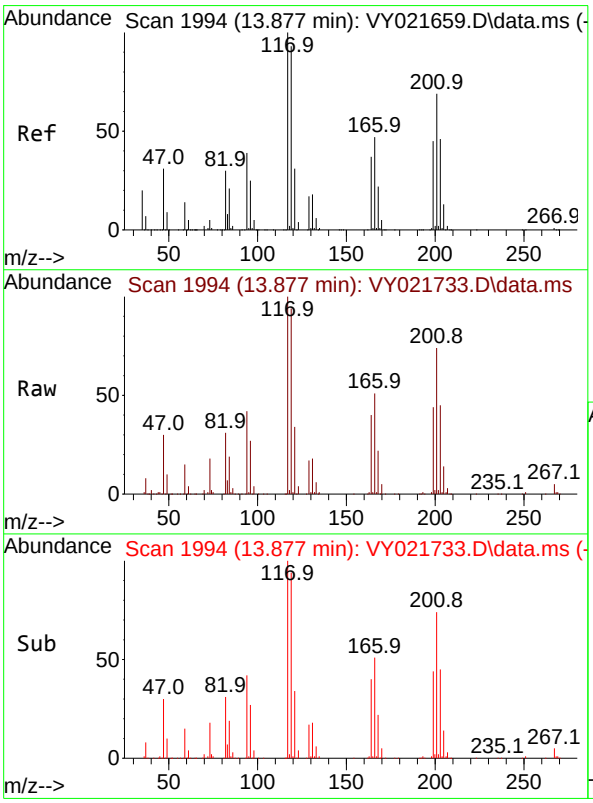
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.4	79.2
134	25.5	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

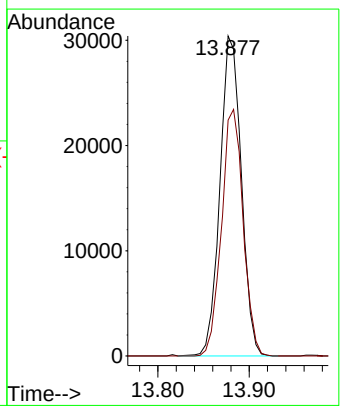
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

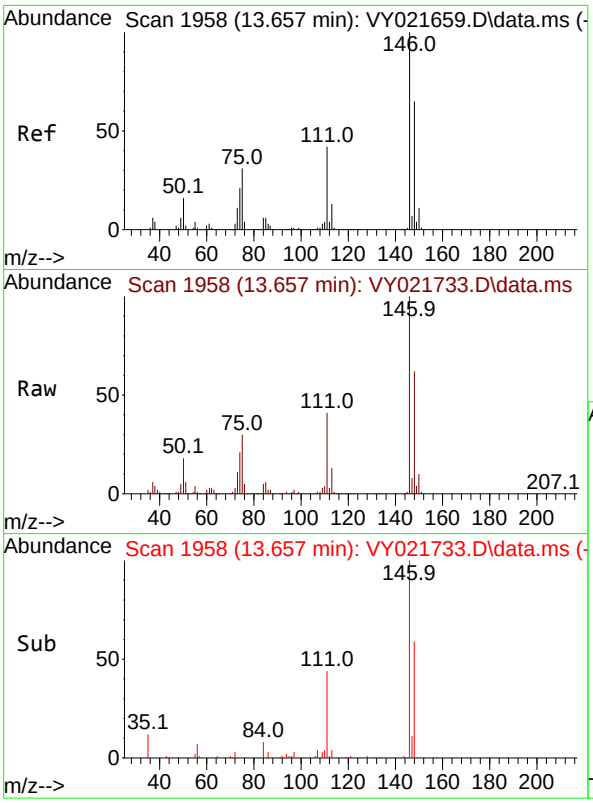


#90
Hexachloroethane
Concen: 19.269 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:117 Resp: 49366

Ion	Ratio	Lower	Upper
117	100		
201	77.9	37.4	112.1

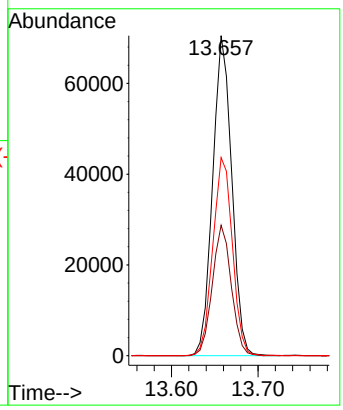




#91
1,2-Dichlorobenzene
Concen: 19.725 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:146 Resp: 10799

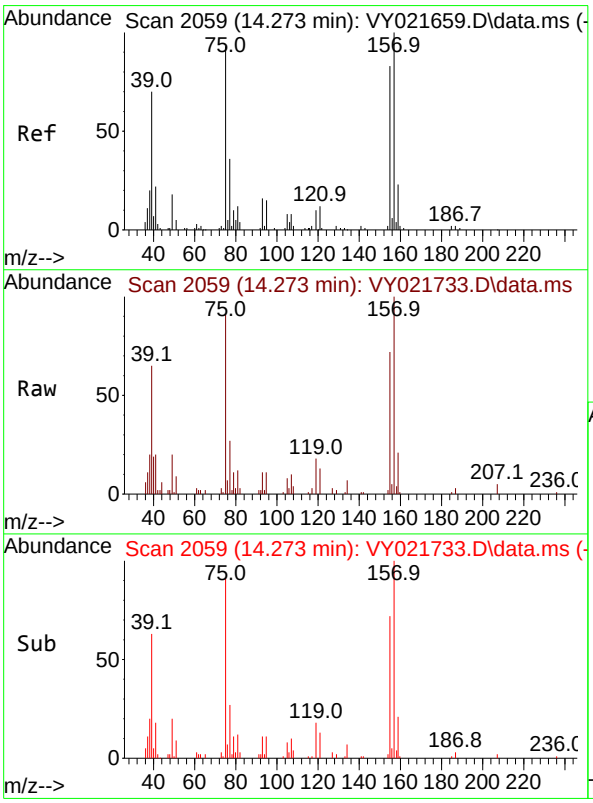
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.7	62.1
148	63.5	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

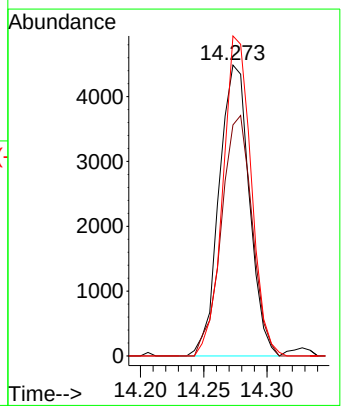
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

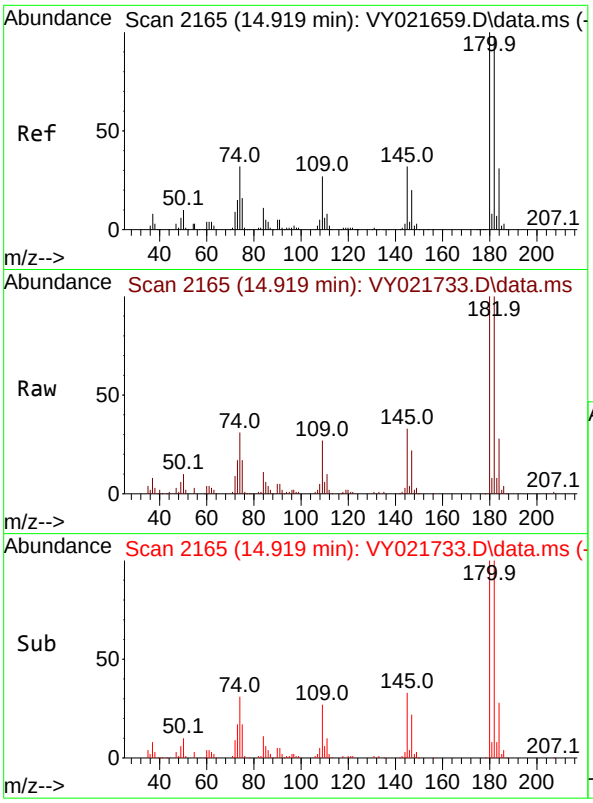


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.121 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion: 75 Resp: 7455

Ion	Ratio	Lower	Upper
75	100		
155	83.7	43.0	128.8
157	102.8	54.0	162.0





#93
1,2,4-Trichlorobenzene
Concen: 19.209 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

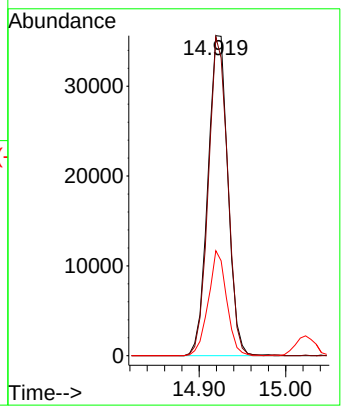
Tgt Ion:180 Resp: 5703

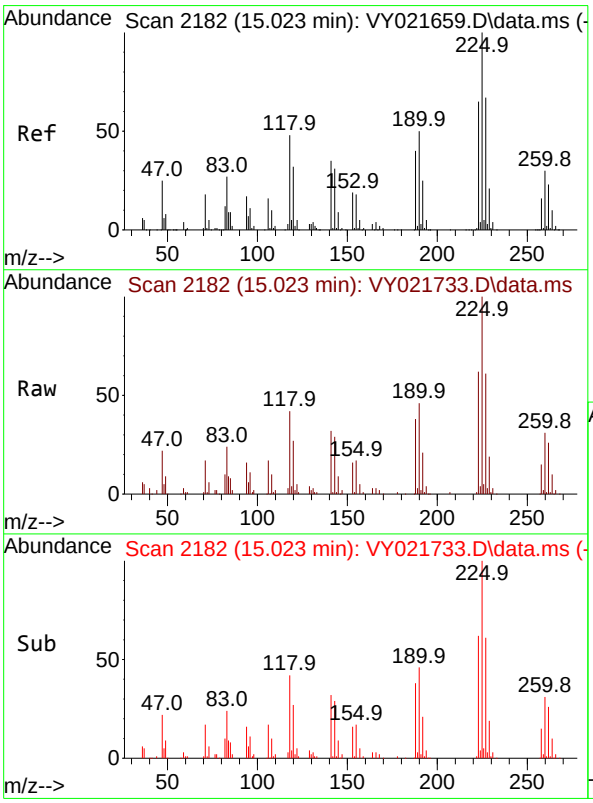
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.5	142.6
145	30.2	14.9	44.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

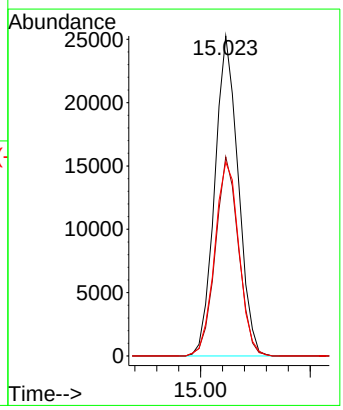


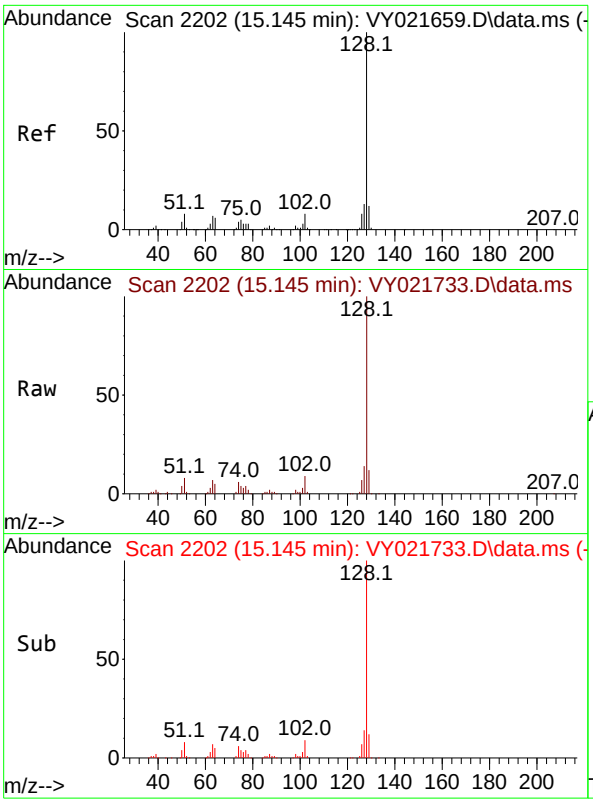


#94
Hexachlorobutadiene
Concen: 20.252 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:225 Resp: 37553

Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.9	95.7
227	62.8	32.4	97.0

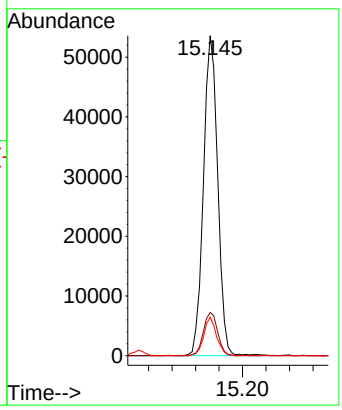




#95
Naphthalene
Concen: 18.388 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:128 Resp: 9049

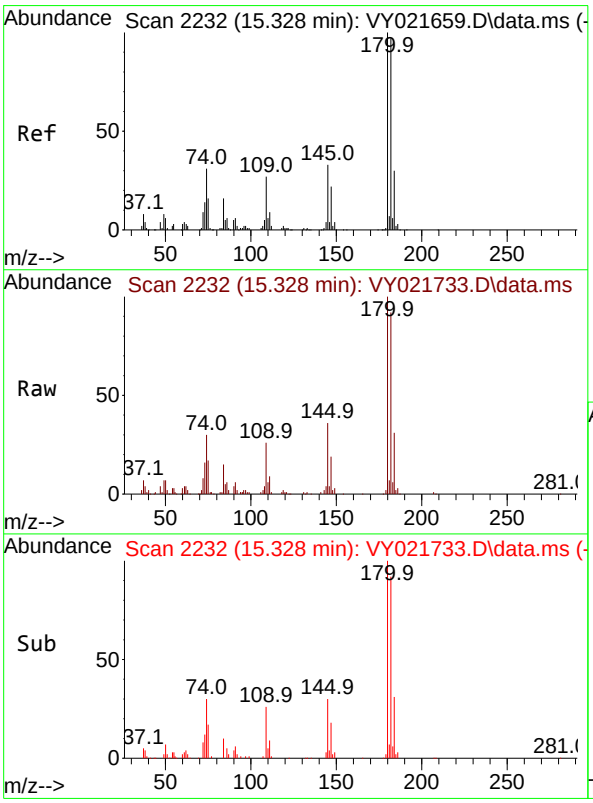
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.8	16.2
129	10.8	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0401SBS01

Manual Integrations
APPROVED

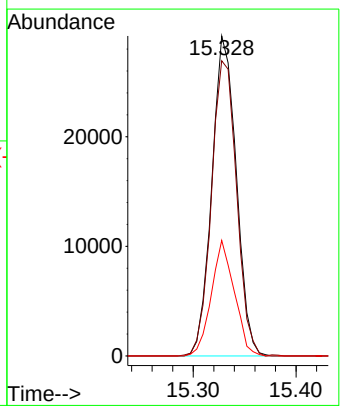
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.008 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021733.D
Acq: 01 Apr 2025 11:30

Tgt Ion:180 Resp: 48126

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.5
145	34.0	15.9	47.7



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021740.D	1		04/01/25 14:42	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	80.1		1.50	6.50	ug/Kg
74-87-3	Chloromethane	70.9		1.50	6.50	ug/Kg
75-01-4	Vinyl Chloride	74.6		1.00	6.50	ug/Kg
74-83-9	Bromomethane	67.6		1.40	6.50	ug/Kg
75-00-3	Chloroethane	72.5		1.60	6.50	ug/Kg
75-69-4	Trichlorofluoromethane	80.0		1.60	6.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	82.1		1.40	6.50	ug/Kg
75-35-4	1,1-Dichloroethene	77.5		1.30	6.50	ug/Kg
67-64-1	Acetone	490		6.20	32.5	ug/Kg
75-15-0	Carbon Disulfide	76.3		1.40	6.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	75.9		0.95	6.50	ug/Kg
79-20-9	Methyl Acetate	300	E	2.00	6.50	ug/Kg
75-09-2	Methylene Chloride	100		4.60	13.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	76.2		1.10	6.50	ug/Kg
75-34-3	1,1-Dichloroethane	75.4		1.00	6.50	ug/Kg
110-82-7	Cyclohexane	75.1		1.00	6.50	ug/Kg
78-93-3	2-Butanone	420		8.50	32.5	ug/Kg
56-23-5	Carbon Tetrachloride	75.3		1.30	6.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	75.3		0.97	6.50	ug/Kg
74-97-5	Bromochloromethane	75.9		1.50	6.50	ug/Kg
67-66-3	Chloroform	75.2		1.10	6.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	77.3		1.20	6.50	ug/Kg
108-87-2	Methylcyclohexane	75.9		1.20	6.50	ug/Kg
71-43-2	Benzene	71.8		1.00	6.50	ug/Kg
107-06-2	1,2-Dichloroethane	72.9		1.00	6.50	ug/Kg
79-01-6	Trichloroethene	74.6		1.10	6.50	ug/Kg
78-87-5	1,2-Dichloropropane	73.9		1.20	6.50	ug/Kg
75-27-4	Bromodichloromethane	72.7		1.00	6.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	360		4.70	32.5	ug/Kg
108-88-3	Toluene	73.4		1.00	6.50	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021740.D	1		04/01/25 14:42	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	71.2		0.84	6.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	70.5		0.81	6.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	76.7		1.20	6.50	ug/Kg
591-78-6	2-Hexanone	350		4.80	32.5	ug/Kg
124-48-1	Dibromochloromethane	75.2		1.10	6.50	ug/Kg
106-93-4	1,2-Dibromoethane	75.7		1.10	6.50	ug/Kg
127-18-4	Tetrachloroethene	87.4		1.40	6.50	ug/Kg
108-90-7	Chlorobenzene	67.0		1.20	6.50	ug/Kg
100-41-4	Ethyl Benzene	67.0		0.87	6.50	ug/Kg
179601-23-1	m/p-Xylenes	140		1.60	13.0	ug/Kg
95-47-6	o-Xylene	69.2		1.10	6.50	ug/Kg
100-42-5	Styrene	69.1		0.92	6.50	ug/Kg
75-25-2	Bromoform	71.6		1.10	6.50	ug/Kg
98-82-8	Isopropylbenzene	63.1		1.00	6.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	62.9		1.60	6.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	62.7		2.20	6.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	62.5		2.00	6.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	64.3		1.90	6.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	68.0		2.40	6.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	53.2		3.90	6.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	54.7		4.10	6.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	64.7		63 - 155	129%	SPK: 50
1868-53-7	Dibromofluoromethane	60.3		70 - 134	121%	SPK: 50
2037-26-5	Toluene-d8	60.4		74 - 123	121%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.7		38 - 136	119%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	96600	7.707			
540-36-3	1,4-Difluorobenzene	161000	8.609			
3114-55-4	Chlorobenzene-d5	149000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	79900	13.346			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.19 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021740.D	1		04/01/25 14:42	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021740.D
Acq On : 01 Apr 2025 14:42
Operator : SY/MD
Sample : Q1664-02MS
Misc : 4.19g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 03:23:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	96561	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	161499	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	149082	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	79914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	67638	64.651	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 129.300%			
35) Dibromofluoromethane	7.628	113	63214	60.341	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 120.680%			
50) Toluene-d8	10.103	98	240767	60.412	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 120.820%			
62) 4-Bromofluorobenzene	12.401	95	80515	59.726	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 119.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	61659	61.608	ug/l	100
3) Chloromethane	2.068	50	76748	54.535	ug/l	99
4) Vinyl Chloride	2.202	62	91305	57.369	ug/l	100
5) Bromomethane	2.592	94	56454	52.008	ug/l	99
6) Chloroethane	2.732	64	58100	55.789	ug/l	96
7) Trichlorofluoromethane	3.056	101	125513	61.563	ug/l	99
8) Diethyl Ether	3.452	74	30309	54.666	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	67948	63.190	ug/l	99
10) Methyl Iodide	4.000	142	70900	60.102	ug/l	99
11) Tert butyl alcohol	4.842	59	20529	302.101	ug/l #	70
12) 1,1-Dichloroethene	3.787	96	60414	59.649	ug/l	94
13) Acrolein	3.647	56	5729	46.172	ug/l	99
14) Allyl chloride	4.378	41	88669	54.908	ug/l	99
15) Acrylonitrile	5.055	53	69311	299.402	ug/l	99
16) Acetone	3.866	43	81445	380.374	ug/l	98
17) Carbon Disulfide	4.104	76	195694	58.662	ug/l	99
18) Methyl Acetate	4.378	43	121431	228.826	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	147304	58.417	ug/l	98
20) Methylene Chloride	4.610	84	78774	77.296	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	65338	58.591	ug/l	98
22) Diisopropyl ether	6.012	45	180285	53.220	ug/l	96
23) Vinyl Acetate	5.964	43	52270	26.376	ug/l	98
24) 1,1-Dichloroethane	5.915	63	117519	58.017	ug/l	98
25) 2-Butanone	6.890	43	98984	323.660	ug/l	98
26) 2,2-Dichloropropane	6.884	77	100503	55.778	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	72637	57.921	ug/l	99
28) Bromochloromethane	7.244	49	49895	58.406	ug/l	99
29) Tetrahydrofuran	7.256	42	59527	302.433	ug/l	100
30) Chloroform	7.421	83	121921	57.869	ug/l	98
31) Cyclohexane	7.695	56	106734	57.803	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	113238	59.468	ug/l	99
36) 1,1-Dichloropropene	7.835	75	91192	57.149	ug/l	100
37) Ethyl Acetate	6.982	43	17505	23.245	ug/l #	80
38) Carbon Tetrachloride	7.817	117	105855	57.920	ug/l	99
39) Methylcyclohexane	9.109	83	111299	58.387	ug/l	98
40) Benzene	8.079	78	264063	55.258	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021740.D
Acq On : 01 Apr 2025 14:42
Operator : SY/MD
Sample : Q1664-02MS
Misc : 4.19g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 03:23:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	21915	54.797	ug/l	#	100
42) 1,2-Dichloroethane	8.158	62	75593	56.112	ug/l		100
43) Isopropyl Acetate	8.195	43	50243	35.206	ug/l		98
44) Trichloroethene	8.859	130	69912	57.419	ug/l		96
45) 1,2-Dichloropropane	9.140	63	64339	56.880	ug/l		99
46) Dibromomethane	9.231	93	38118	58.472	ug/l		96
47) Bromodichloromethane	9.420	83	94449	55.913	ug/l		99
48) Methyl methacrylate	9.219	41	47175	72.024	ug/l		95
49) 1,4-Dioxane	9.219	88	9126	1306.783	ug/l		99
51) 4-Methyl-2-Pentanone	9.993	43	207926	279.970	ug/l		99
52) Toluene	10.170	92	168313	56.453	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	82149	54.752	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	95970	54.219	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	49506	59.011	ug/l		97
56) Ethyl methacrylate	10.438	69	36777	34.332	ug/l		98
57) 1,3-Dichloropropane	10.713	76	84189	58.107	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	166548	318.709	ug/l		100
59) 2-Hexanone	10.761	43	133084	269.069	ug/l		99
60) Dibromochloromethane	10.908	129	66270	57.857	ug/l		100
61) 1,2-Dibromoethane	11.011	107	45833	58.240	ug/l		99
64) Tetrachloroethene	10.646	164	91293	67.236	ug/l		98
65) Chlorobenzene	11.438	112	176125	51.537	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	64285	53.018	ug/l		97
67) Ethyl Benzene	11.517	91	301895	51.516	ug/l		99
68) m/p-Xylenes	11.627	106	236168	105.243	ug/l		100
69) o-Xylene	11.956	106	110288	53.243	ug/l		100
70) Styrene	11.969	104	183712	53.192	ug/l		99
71) Bromoform	12.133	173	38072	55.046	ug/l	#	100
73) Isopropylbenzene	12.255	105	288342	48.579	ug/l		99
74) N-amyl acetate	12.066	43	8183	5.874	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	51613	48.365	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	39211m	49.499	ug/l		
77) Bromobenzene	12.529	156	69460	48.740	ug/l		99
78) n-propylbenzene	12.597	91	349302	48.950	ug/l		99
79) 2-Chlorotoluene	12.676	91	203700	49.148	ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	238020	49.066	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	15916	46.296	ug/l		98
82) 4-Chlorotoluene	12.773	91	208772	48.316	ug/l		98
83) tert-Butylbenzene	12.999	119	206052	47.688	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	236860	49.402	ug/l		99
85) sec-Butylbenzene	13.176	105	308529	48.861	ug/l		99
86) p-Isopropyltoluene	13.291	119	254716	48.806	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	135455	48.243	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	133457	48.109	ug/l		99
89) n-Butylbenzene	13.615	91	216008	44.754	ug/l		100
90) Hexachloroethane	13.877	117	52976	46.322	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	120864	49.450	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8654	52.322	ug/l		91
93) 1,2,4-Trichlorobenzene	14.919	180	54259	40.936	ug/l		99
94) Hexachlorobutadiene	15.023	225	30994	37.442	ug/l		100
95) Naphthalene	15.145	128	89655	40.808	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	47540	42.060	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021740.D
Acq On : 01 Apr 2025 14:42
Operator : SY/MD
Sample : Q1664-02MS
Misc : 4.19g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 03:23:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

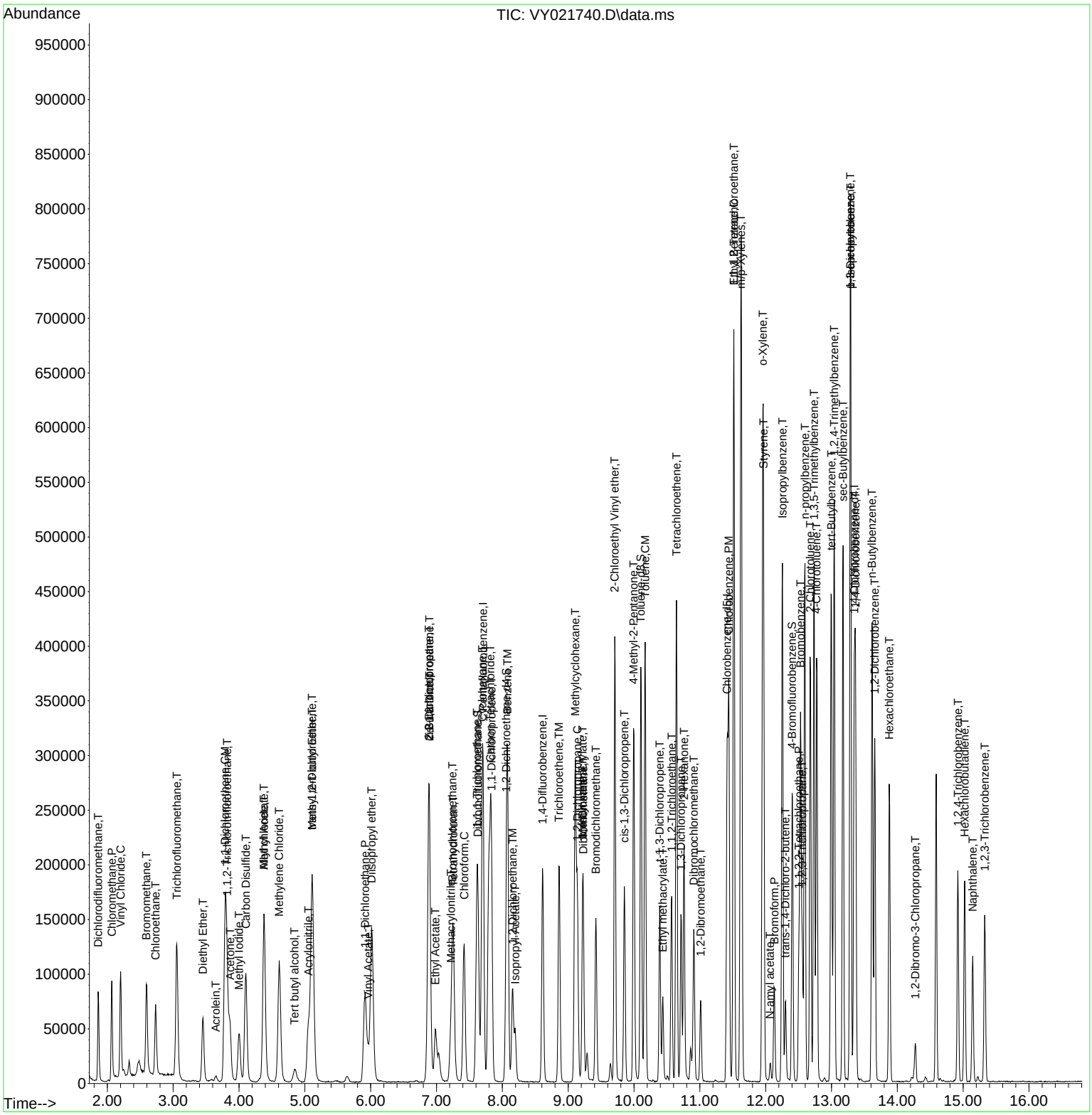
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021740.D
Acq On : 01 Apr 2025 14:42
Operator : SY/MD
Sample : Q1664-02MS
Misc : 4.19g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

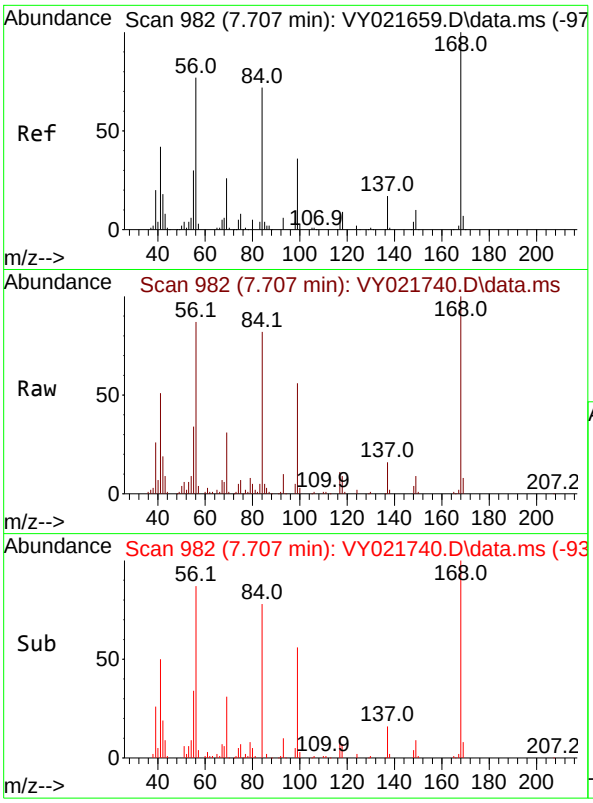
Quant Time: Apr 02 03:23:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

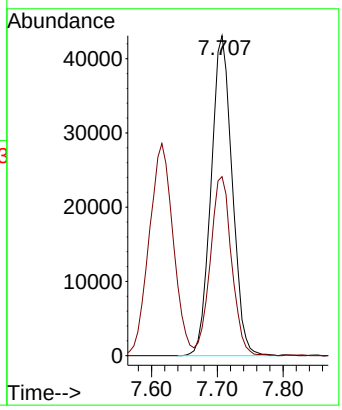




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:168 Resp: 9656

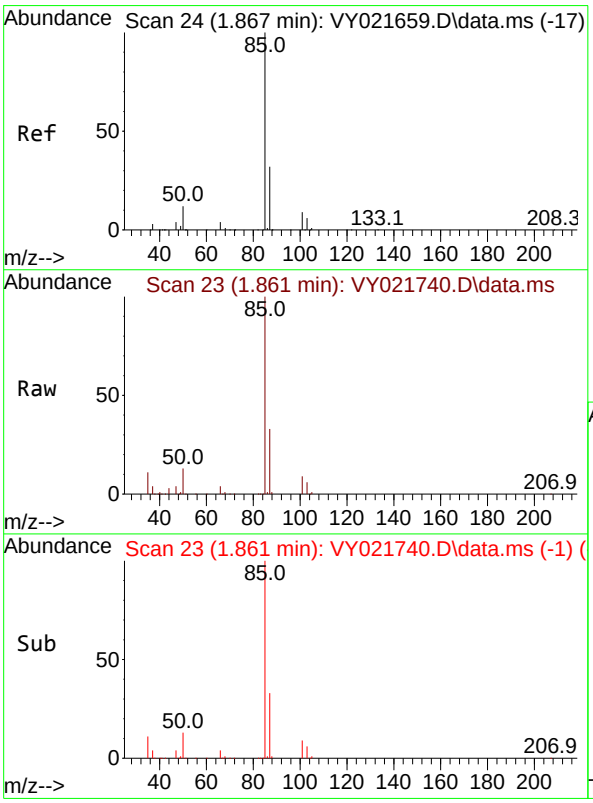
Ion	Ratio	Lower	Upper
168	100		
99	56.0	46.7	70.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

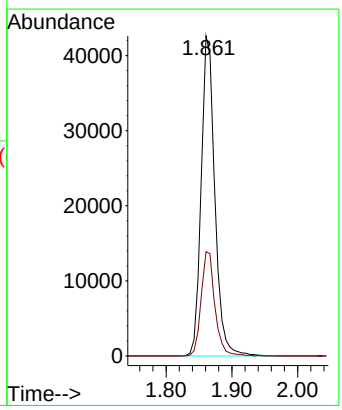
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

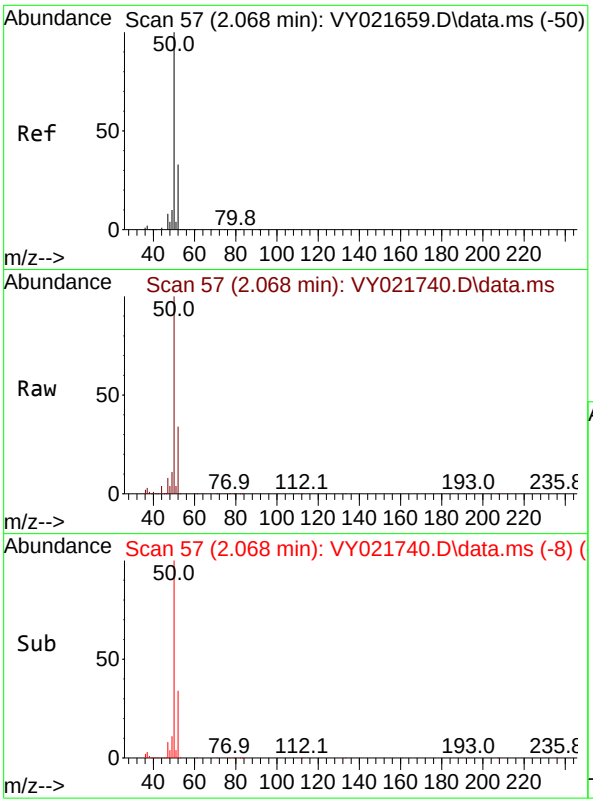


#2
Dichlorodifluoromethane
Concen: 61.608 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 85 Resp: 61659

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6

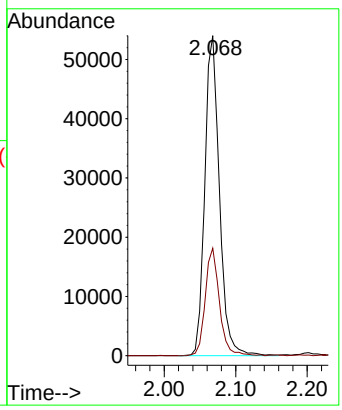




#3
Chloromethane
Concen: 54.535 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 50 Resp: 7674

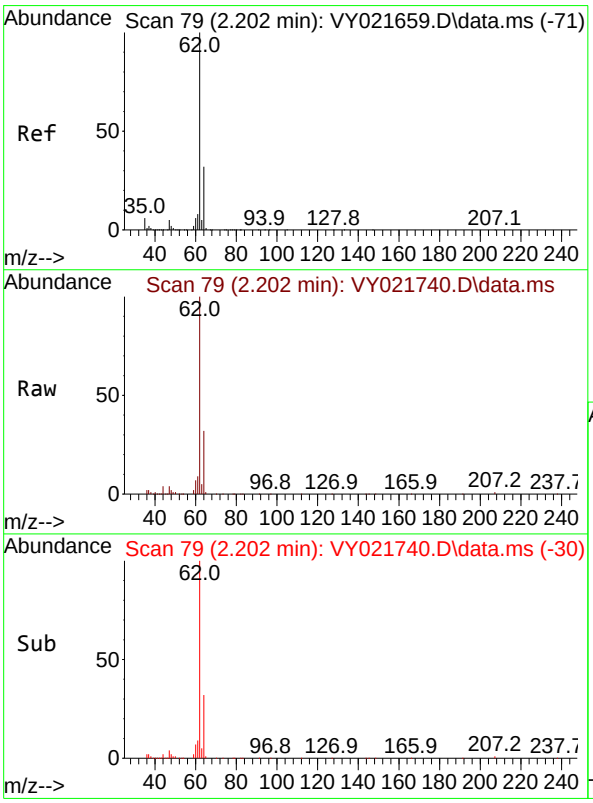
Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

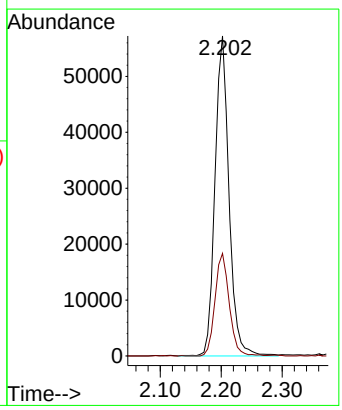
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

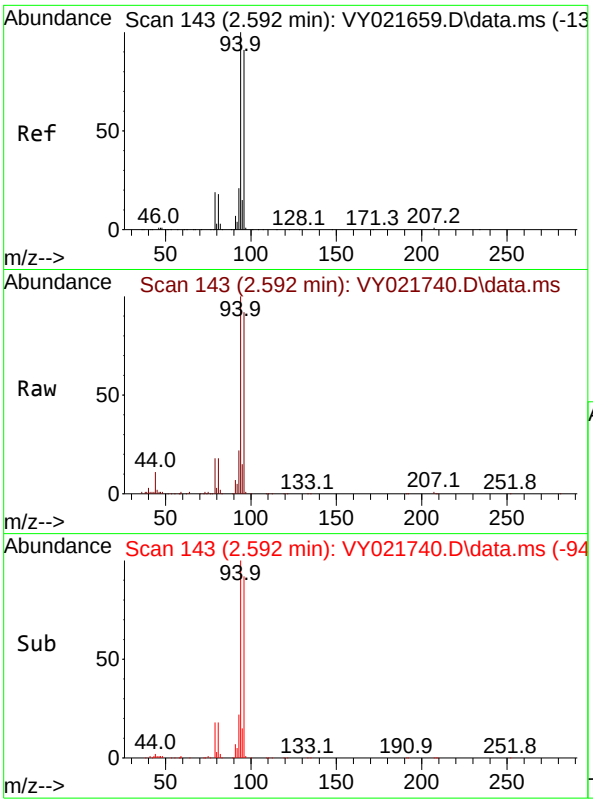


#4
Vinyl Chloride
Concen: 57.369 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 62 Resp: 91305

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.5	38.3

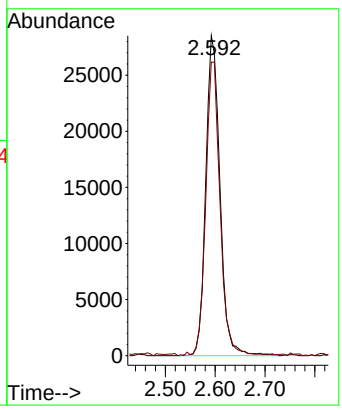




#5
Bromomethane
Concen: 52.008 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 94 Resp: 5645

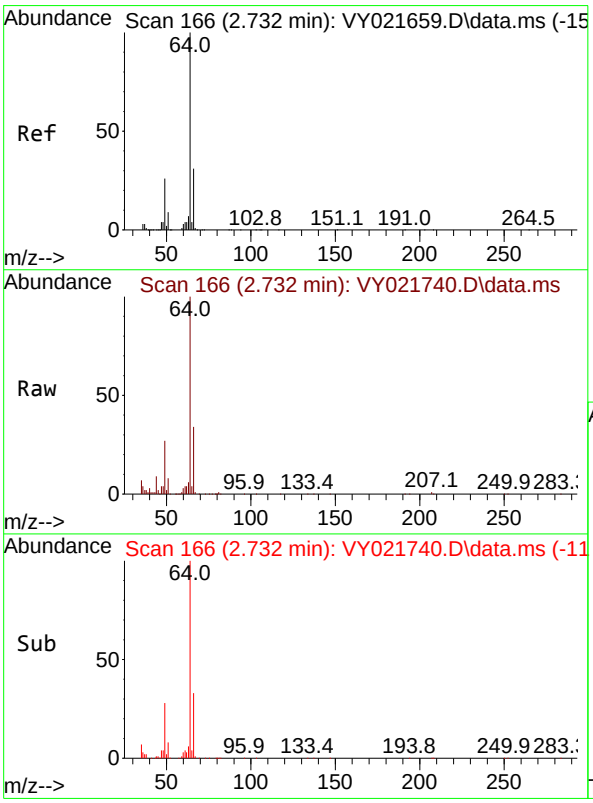
Ion	Ratio	Lower	Upper
94	100		
96	91.8	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

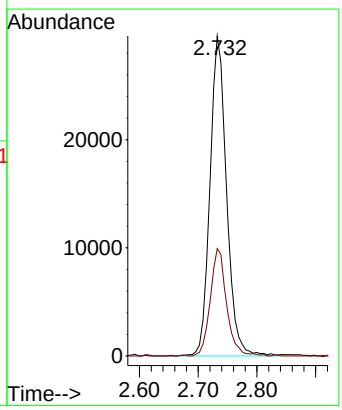
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

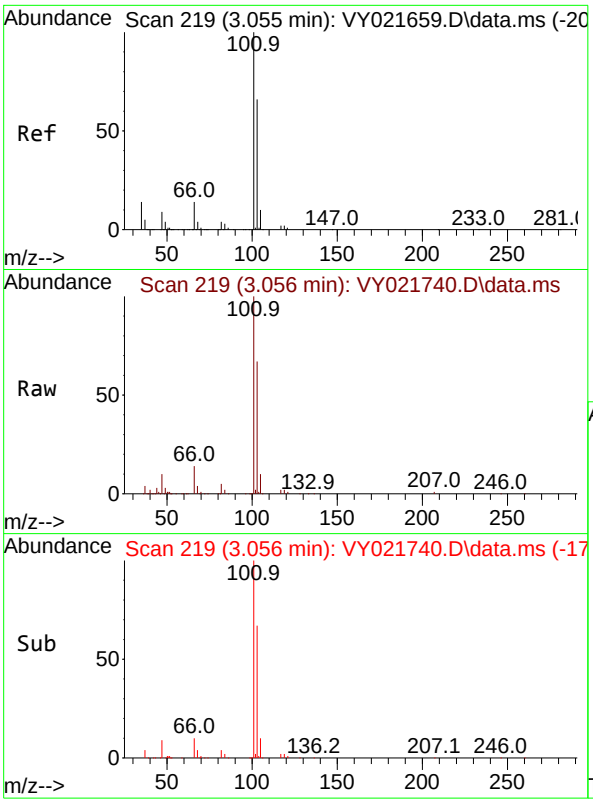


#6
Chloroethane
Concen: 55.789 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 64 Resp: 58100

Ion	Ratio	Lower	Upper
64	100		
66	33.6	24.9	37.3

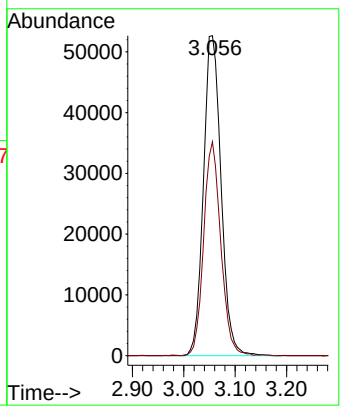




#7
Trichlorofluoromethane
Concen: 61.563 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:101 Resp: 12551

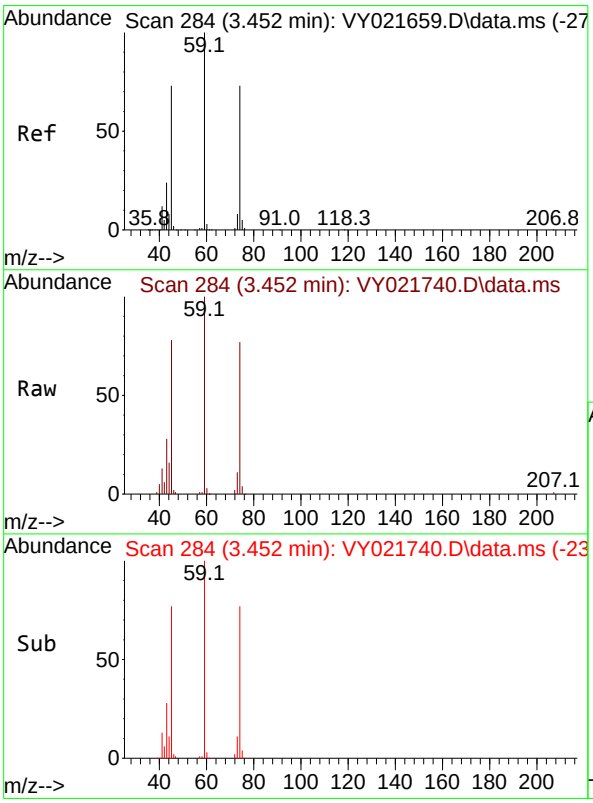
Ion	Ratio	Lower	Upper
101	100		
103	66.8	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

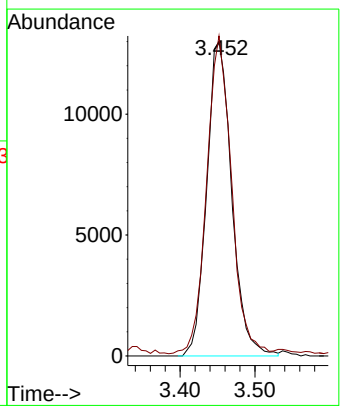
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

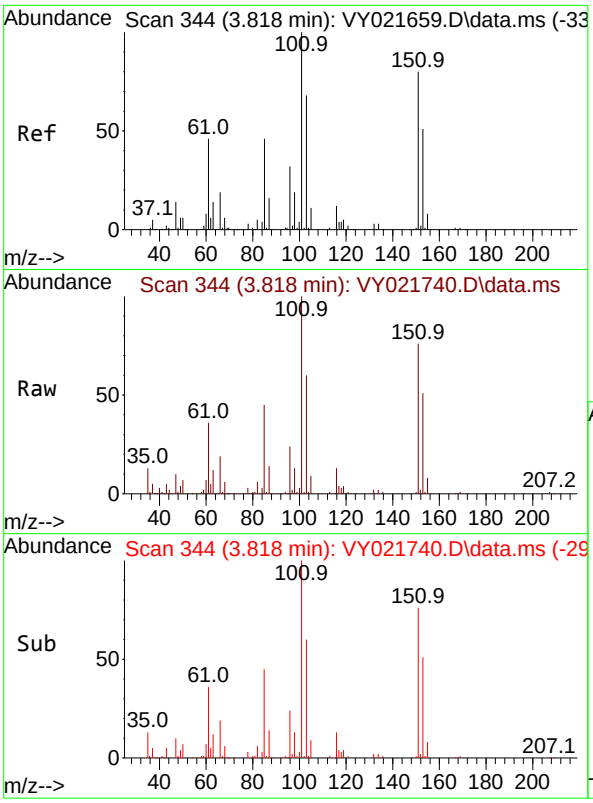


#8
Diethyl Ether
Concen: 54.666 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 74 Resp: 30309

Ion	Ratio	Lower	Upper
74	100		
45	100.0	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 63.190 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

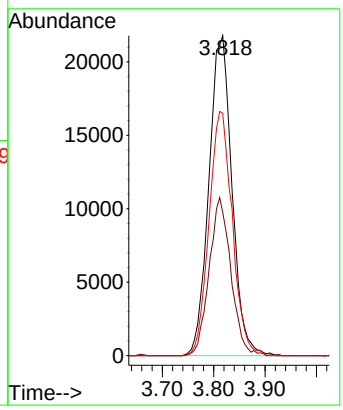
Tgt Ion:101 Resp: 6794

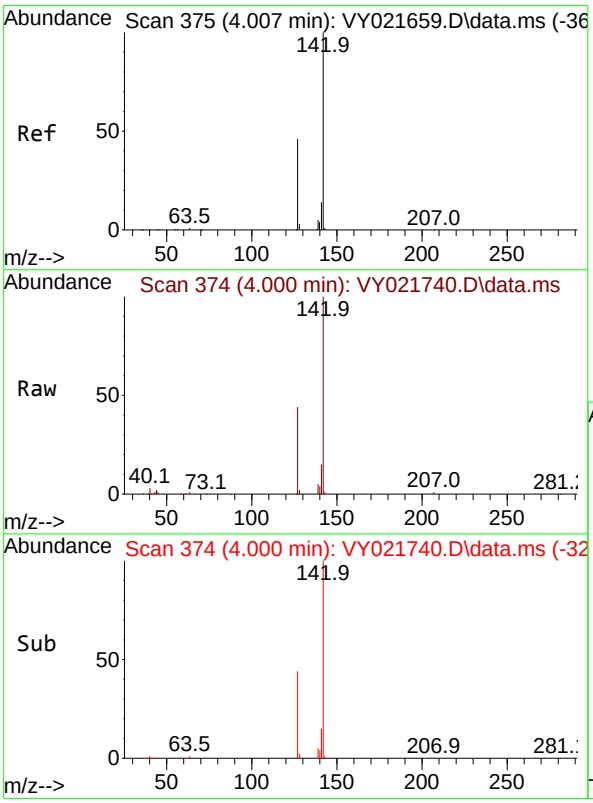
Ion	Ratio	Lower	Upper
101	100		
85	46.6	36.3	54.5
151	77.1	61.3	91.9

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

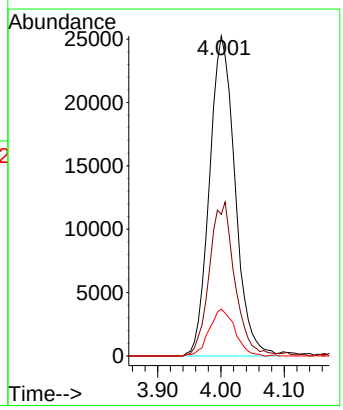


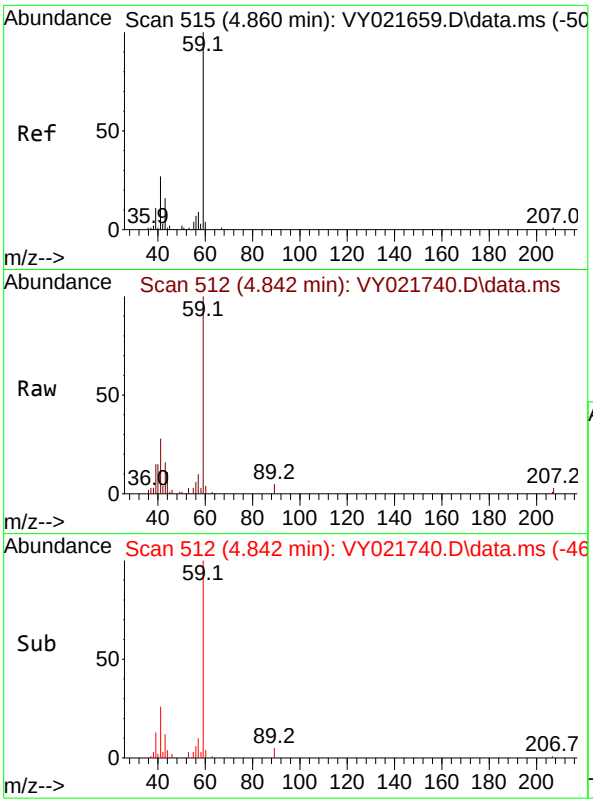


#10
Methyl Iodide
Concen: 60.102 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:142 Resp: 70900

Ion	Ratio	Lower	Upper
142	100		
127	47.7	38.7	58.1
141	14.7	11.5	17.3





#11
Tert butyl alcohol
Concen: 302.101 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

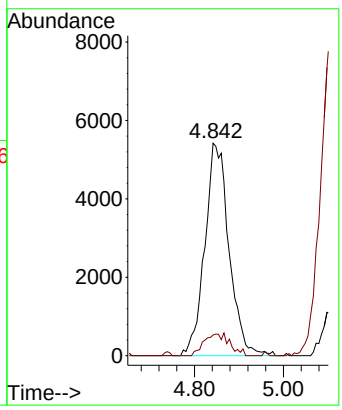
Tgt Ion: 59 Resp: 2052

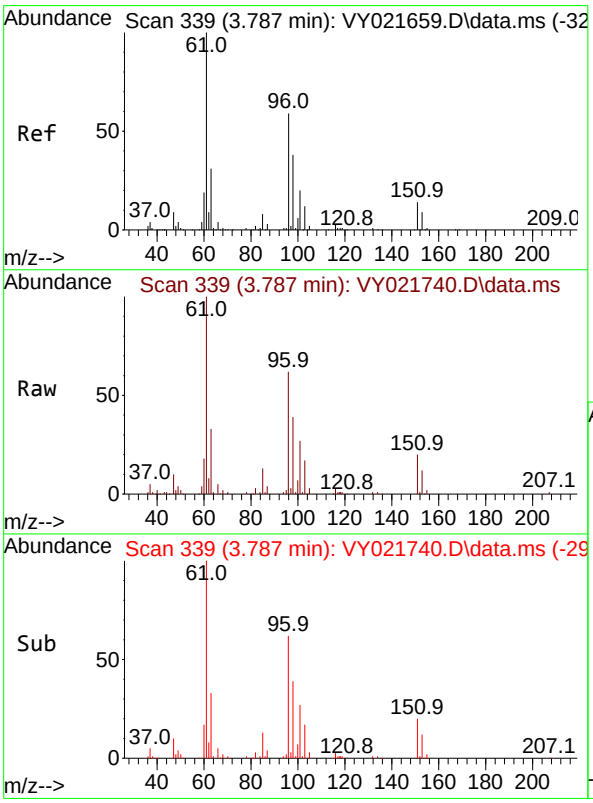
Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

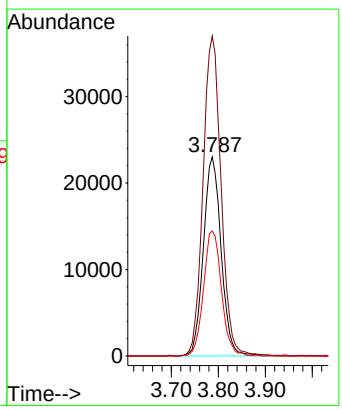


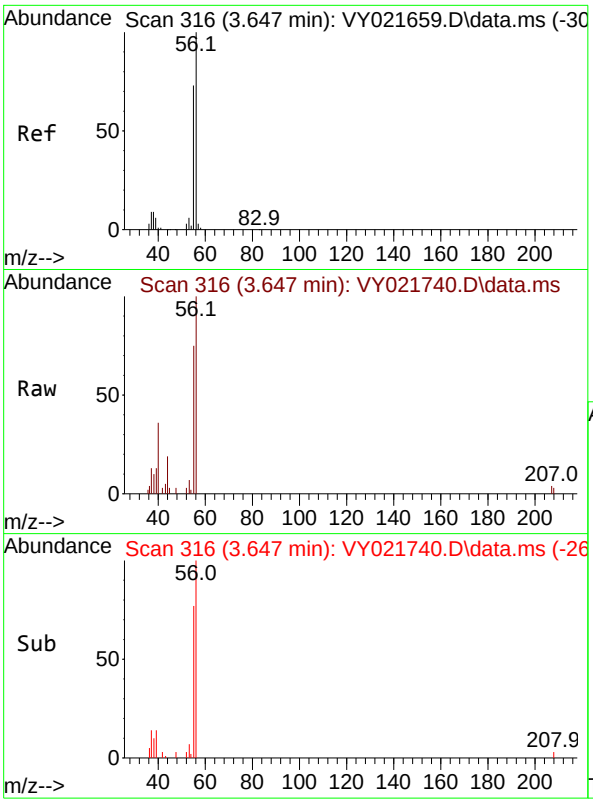


#12
1,1-Dichloroethene
Concen: 59.649 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 96 Resp: 60414

Ion	Ratio	Lower	Upper
96	100		
61	160.8	136.6	204.8
98	62.8	52.3	78.5

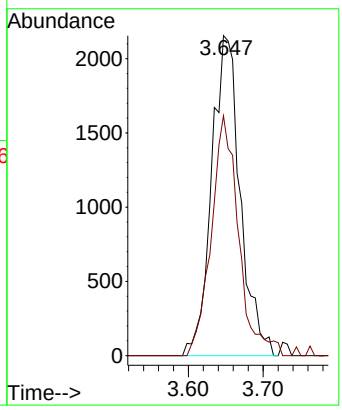




#13
Acrolein
Concen: 46.172 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 56 Resp: 572

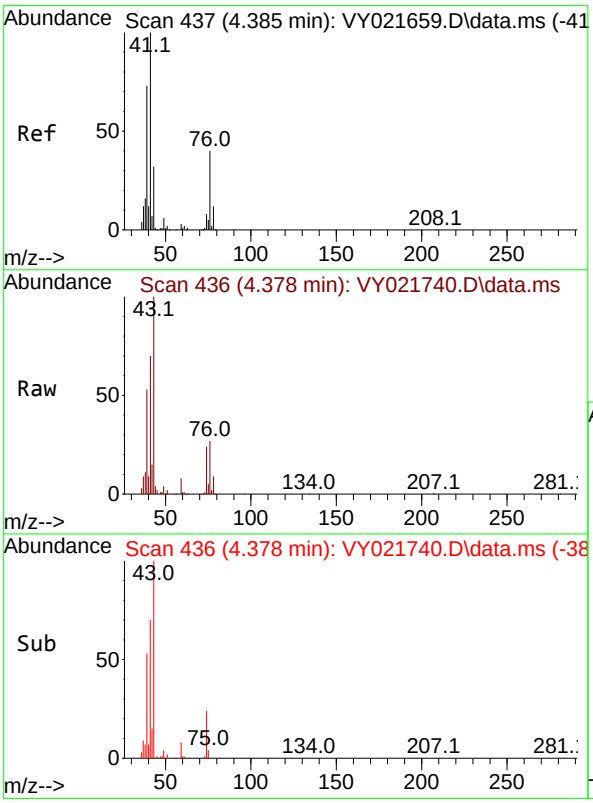
Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

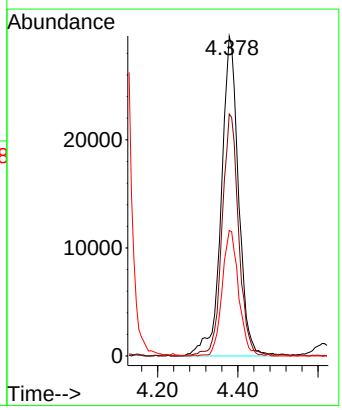
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

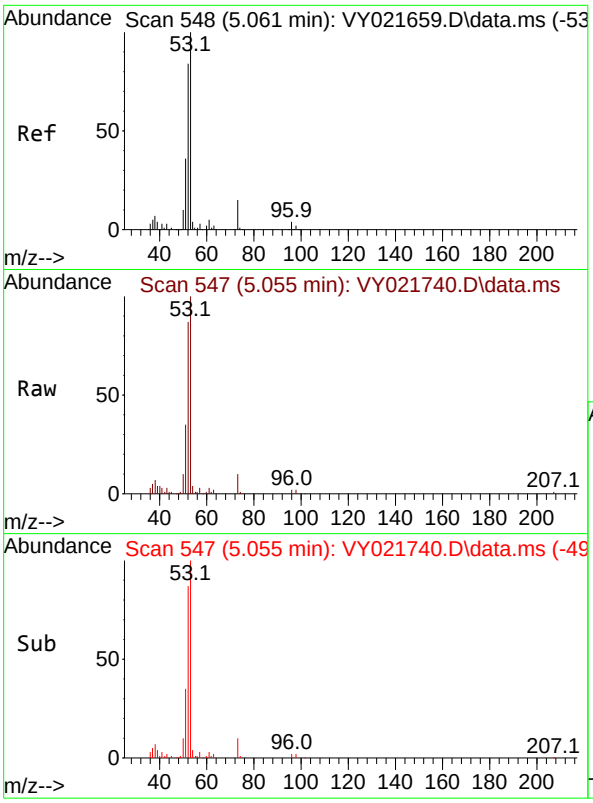


#14
Allyl chloride
Concen: 54.908 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 41 Resp: 88669

Ion	Ratio	Lower	Upper
41	100		
39	72.9	58.6	88.0
76	37.3	30.3	45.5

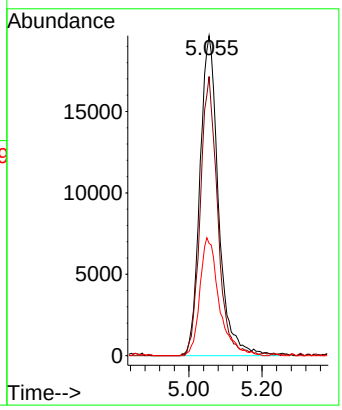




#15
Acrylonitrile
Concen: 299.402 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 53 Resp: 6931

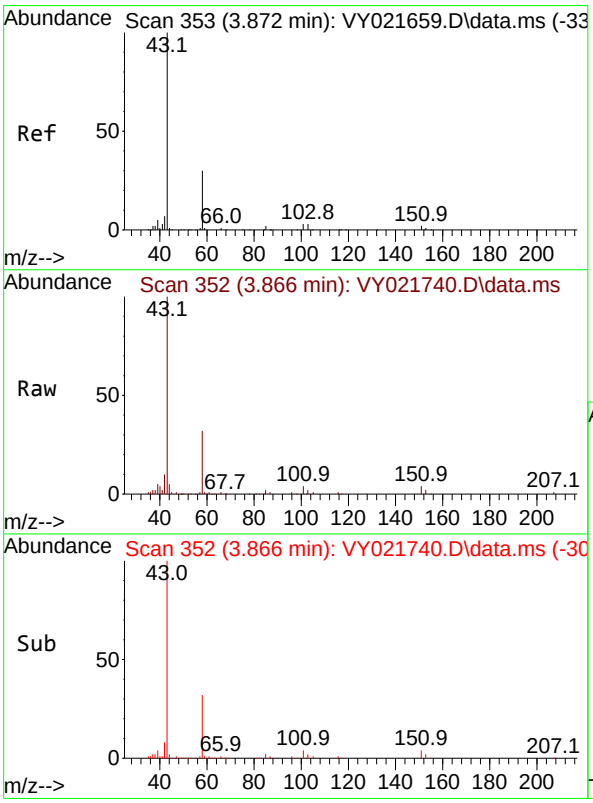
Ion	Ratio	Lower	Upper
53	100		
52	81.5	64.9	97.3
51	38.3	30.2	45.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

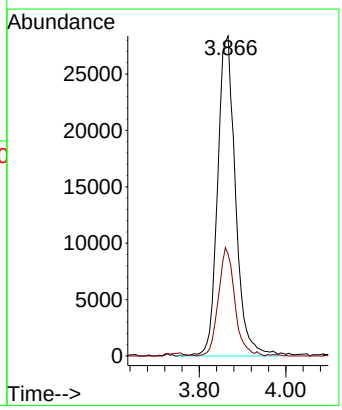
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

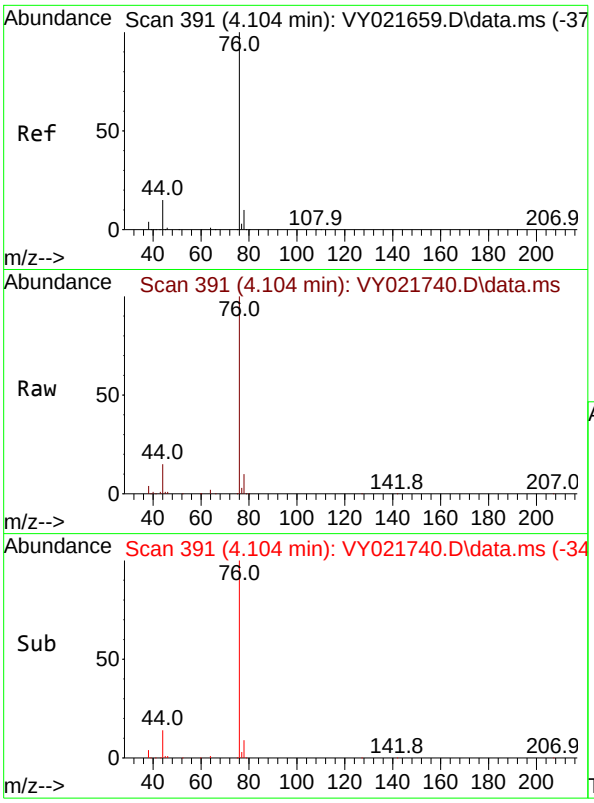


#16
Acetone
Concen: 380.374 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 43 Resp: 81445

Ion	Ratio	Lower	Upper
43	100		
58	31.4	24.2	36.4

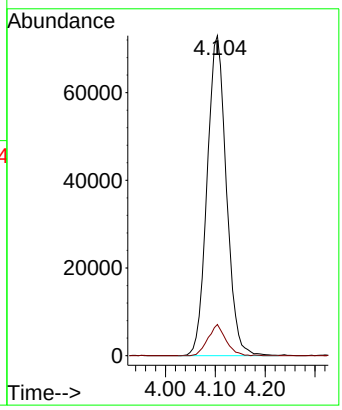




#17
Carbon Disulfide
Concen: 58.662 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 76 Resp: 19569

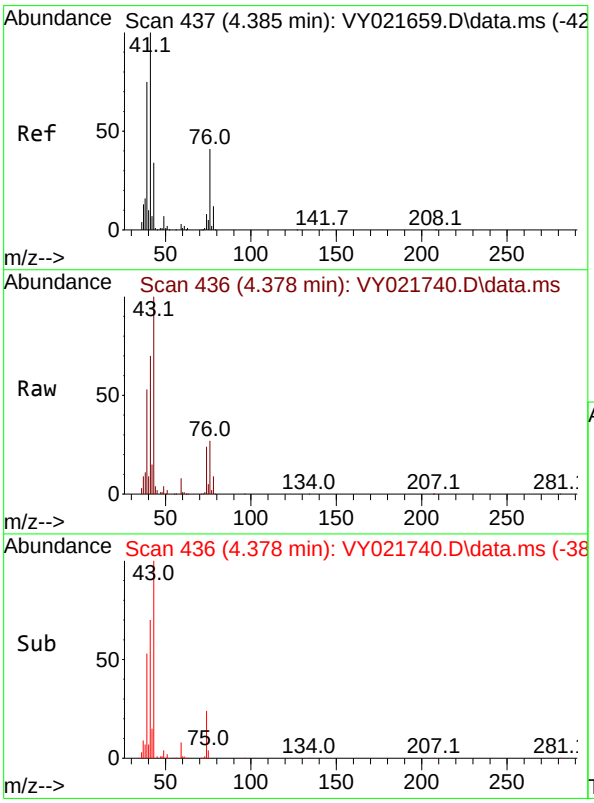
Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

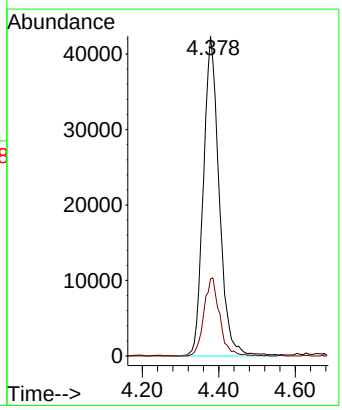
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

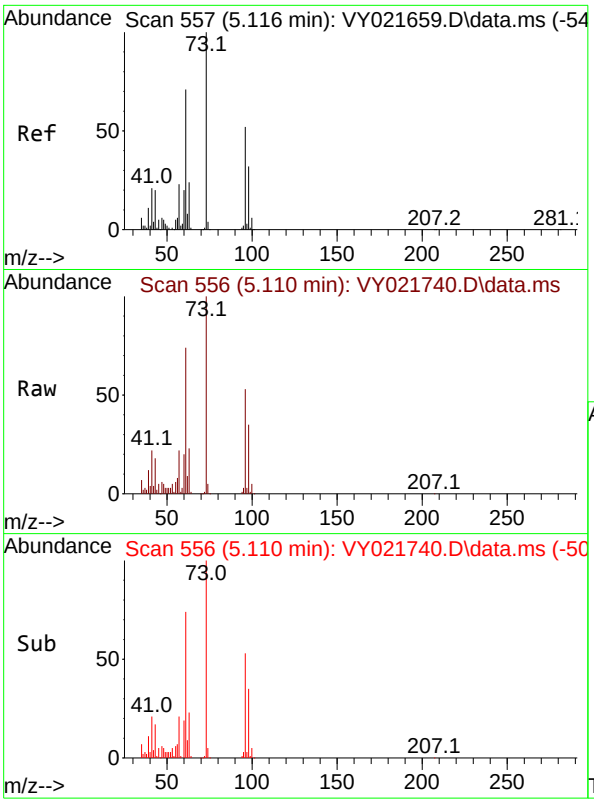


#18
Methyl Acetate
Concen: 228.826 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 43 Resp: 121431

Ion	Ratio	Lower	Upper
43	100		
74	24.3	19.1	28.7

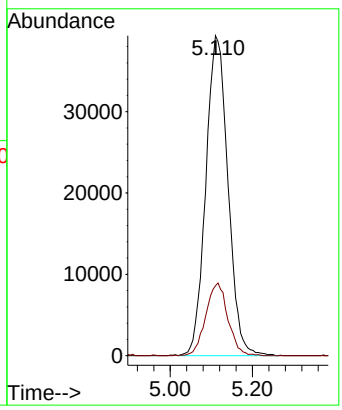




#19
Methyl tert-butyl Ether
Concen: 58.417 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 73 Resp: 14730

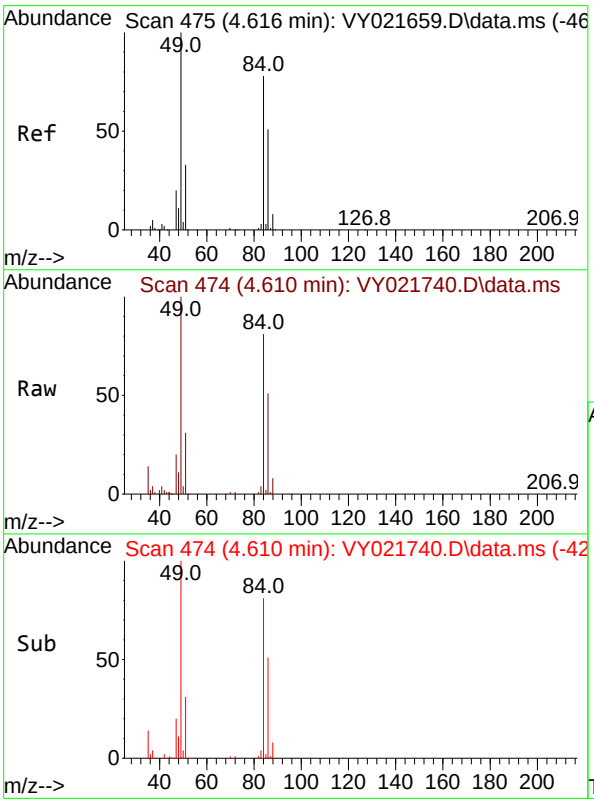
Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

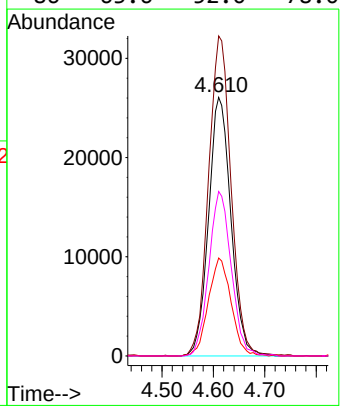
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

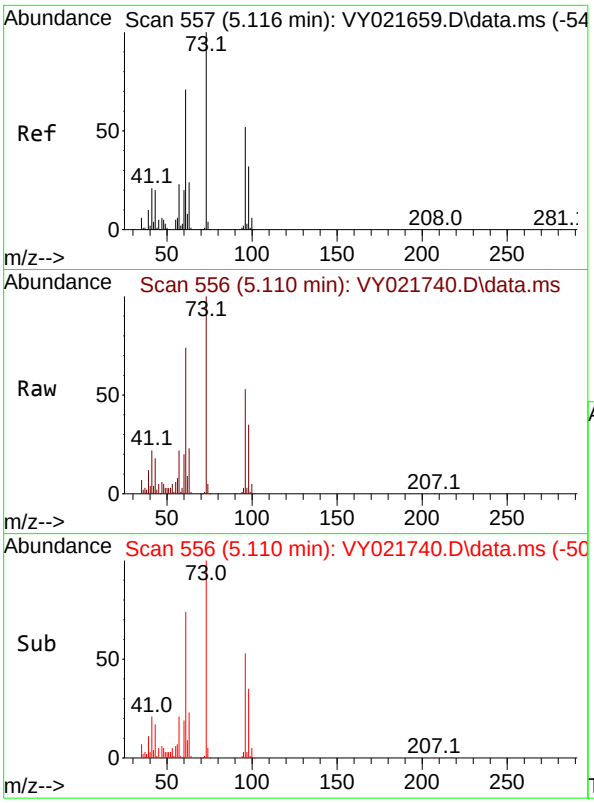


#20
Methylene Chloride
Concen: 77.296 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 84 Resp: 78774

Ion	Ratio	Lower	Upper
84	100		
49	123.8	102.8	154.2
51	37.9	33.5	50.3
86	63.6	52.0	78.0

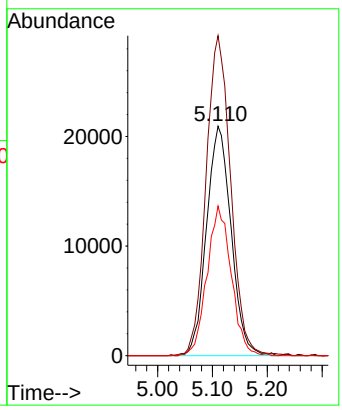




#21
trans-1,2-Dichloroethene
Concen: 58.591 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 96 Resp: 6533

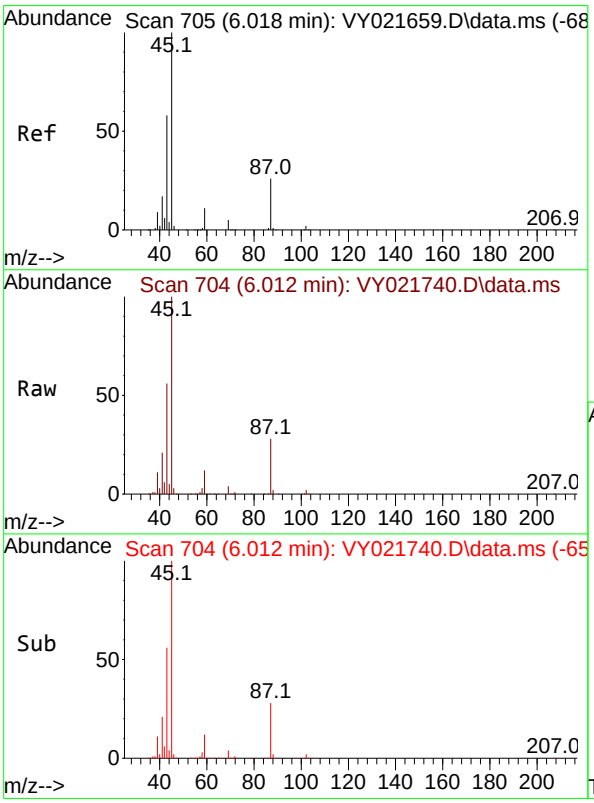
Ion	Ratio	Lower	Upper
96	100		
61	139.0	109.4	164.0
98	65.2	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

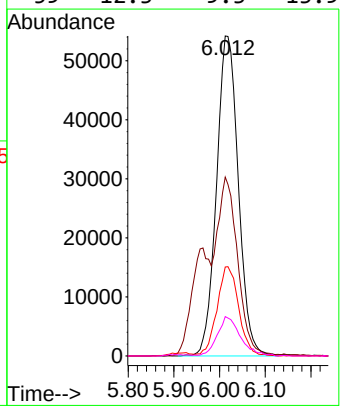
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

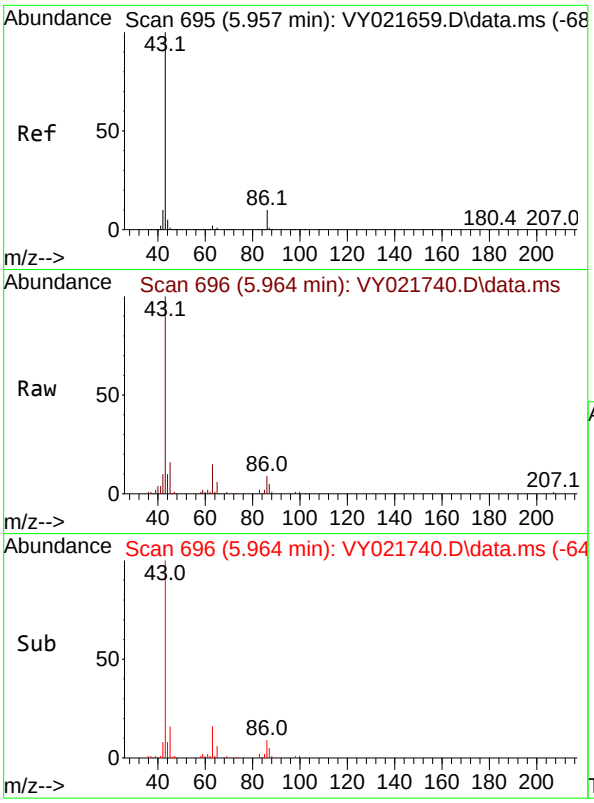


#22
Diisopropyl ether
Concen: 53.220 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 45 Resp: 180285

Ion	Ratio	Lower	Upper
45	100		
43	55.4	46.6	69.8
87	27.8	20.7	31.1
59	12.3	9.3	13.9





#23
Vinyl Acetate
Concen: 26.376 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

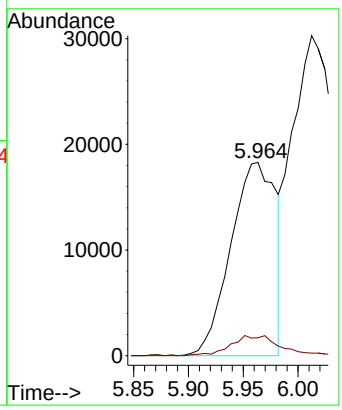
Tgt Ion: 43 Resp: 5227

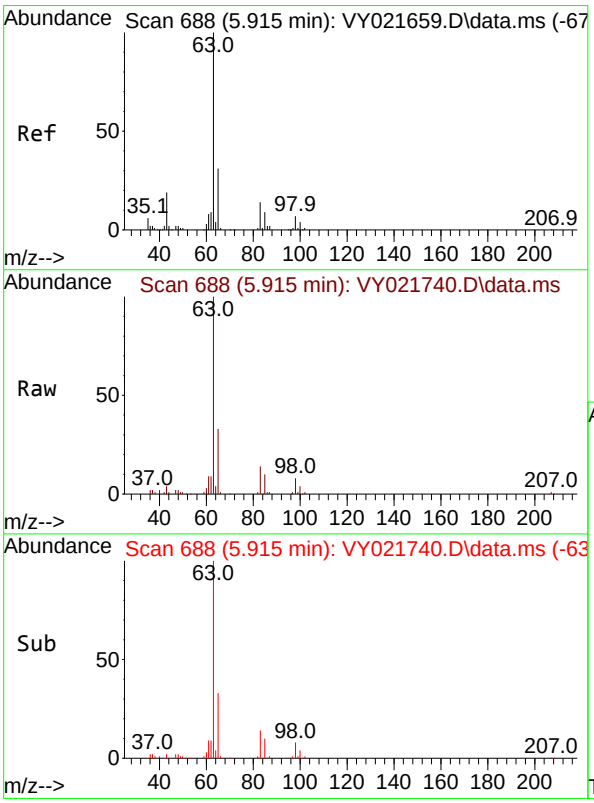
Ion	Ratio	Lower	Upper
43	100		
86	9.3	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

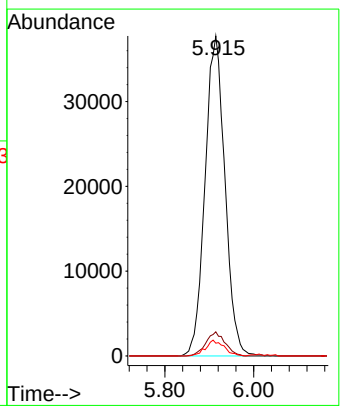


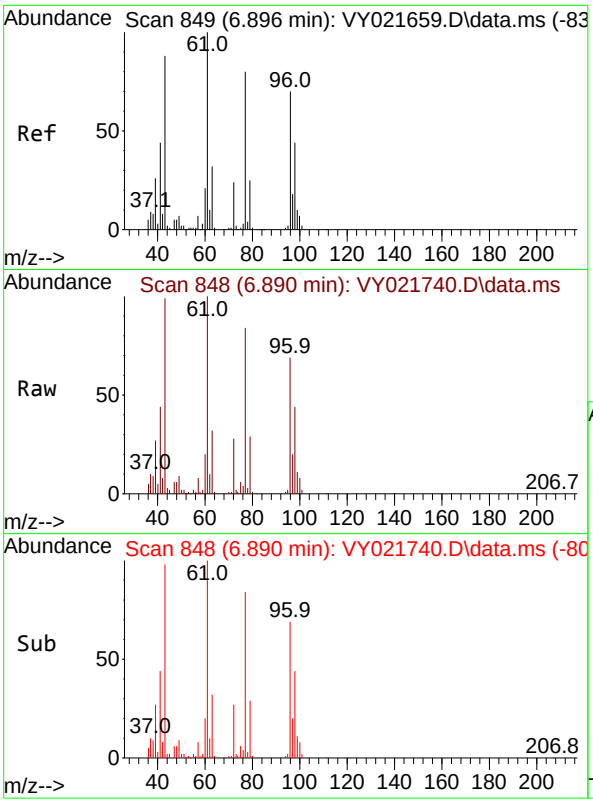


#24
1,1-Dichloroethane
Concen: 58.017 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 63 Resp: 117519

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.5
100	4.0	2.2	6.6

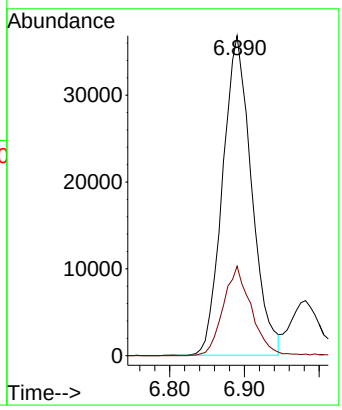




#25
2-Butanone
Concen: 323.660 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 43 Resp: 9898

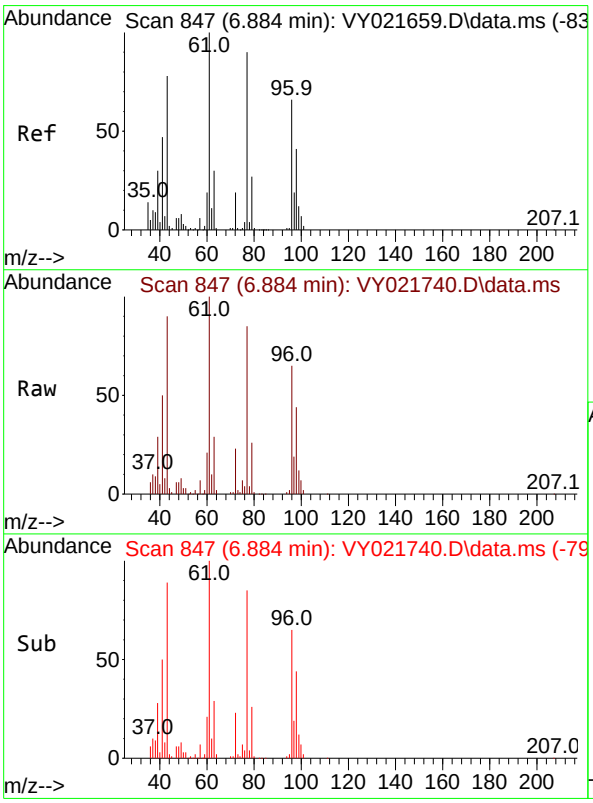
Ion	Ratio	Lower	Upper
43	100		
72	28.0	21.4	32.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

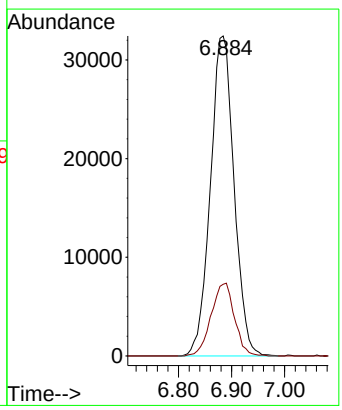
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

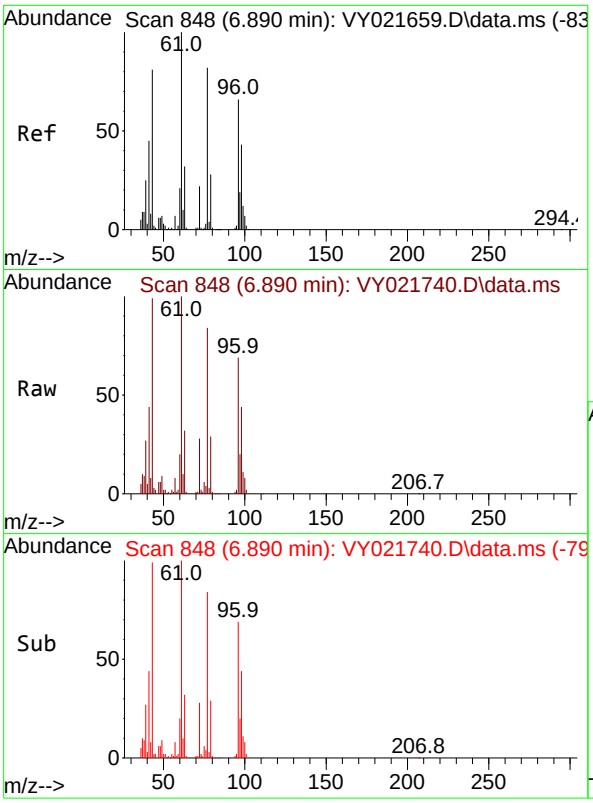


#26
2,2-Dichloropropane
Concen: 55.778 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 77 Resp: 100503

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.1	33.1





#27
cis-1,2-Dichloroethene
Concen: 57.921 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

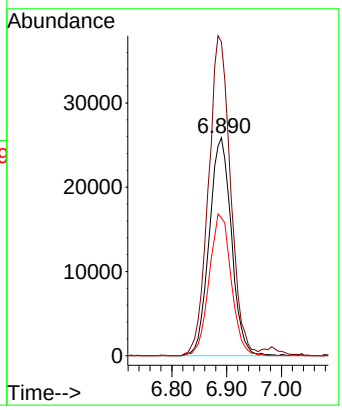
Tgt Ion: 96 Resp: 7263

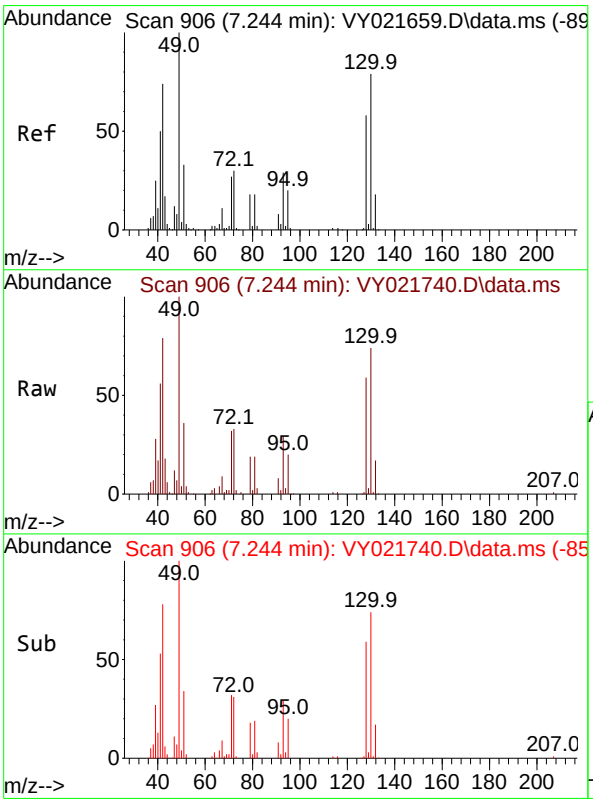
Ion	Ratio	Lower	Upper
96	100		
61	146.2	0.0	296.4
98	64.5	0.0	128.0

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

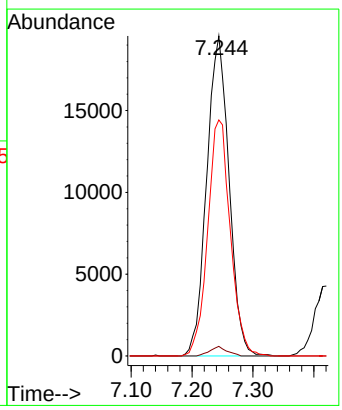


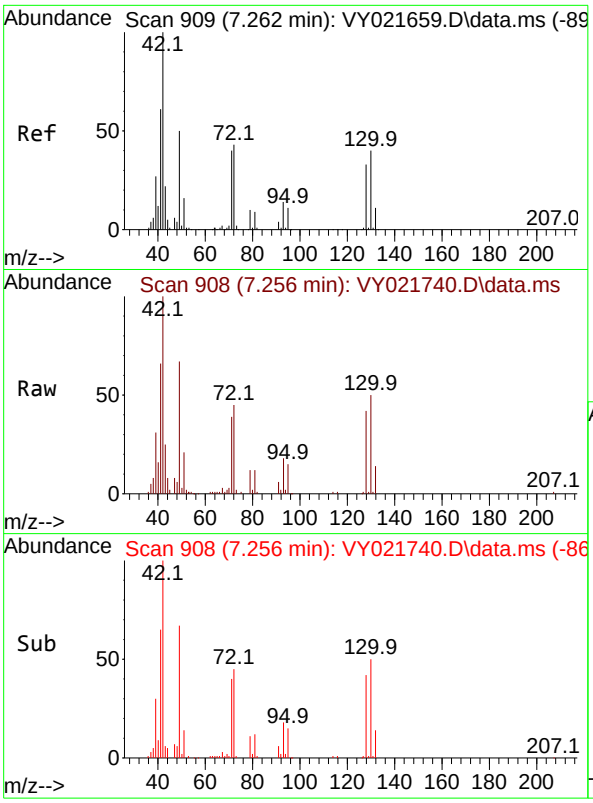


#28
Bromochloromethane
Concen: 58.406 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 49 Resp: 49895

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.4
130	74.6	60.1	90.1





#29
Tetrahydrofuran
Concen: 302.433 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

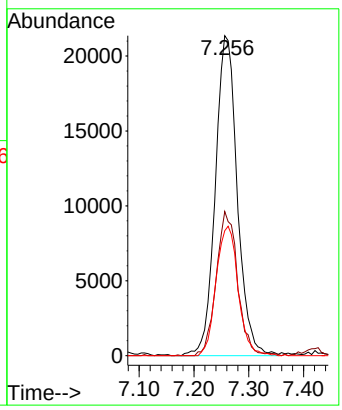
Tgt Ion: 42 Resp: 5952

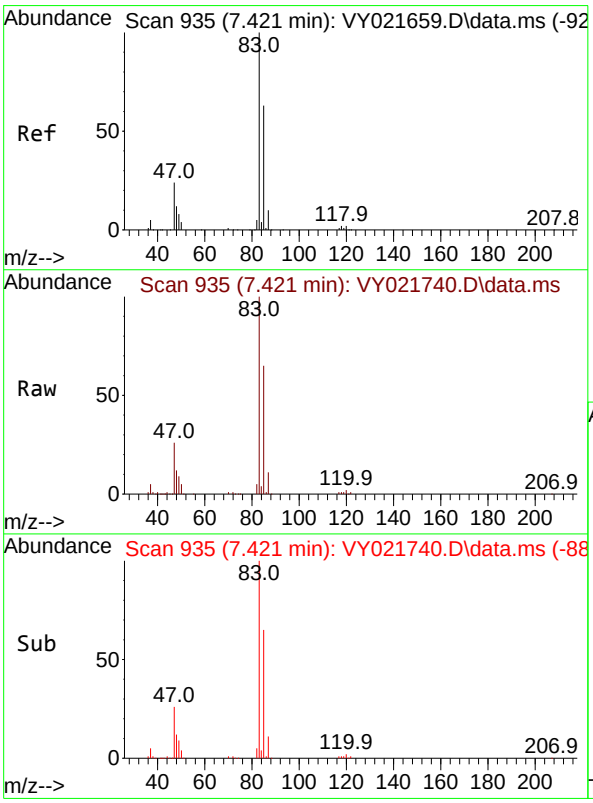
Ion	Ratio	Lower	Upper
42	100		
72	43.8	34.6	52.0
71	40.5	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

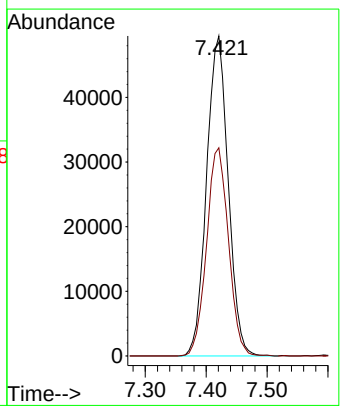


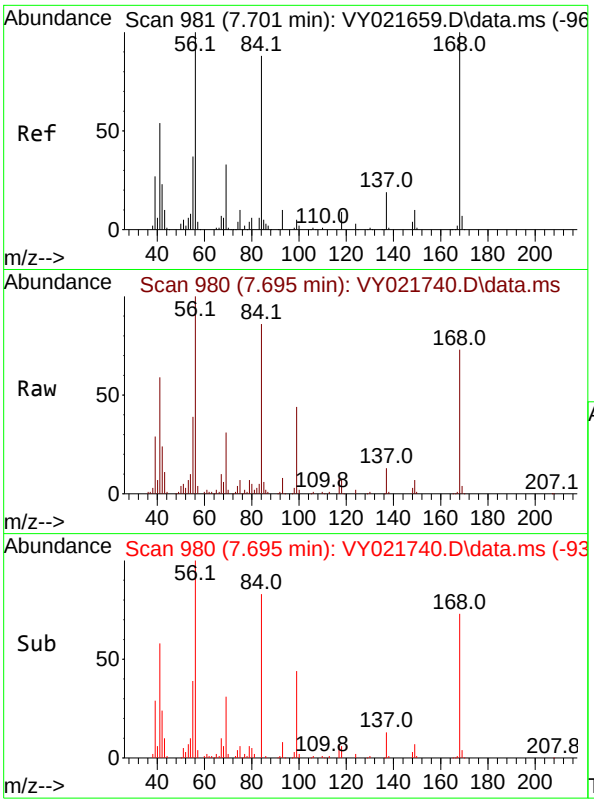


#30
Chloroform
Concen: 57.869 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 83 Resp: 121921

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.6	75.8





#31
Cyclohexane
Concen: 57.803 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

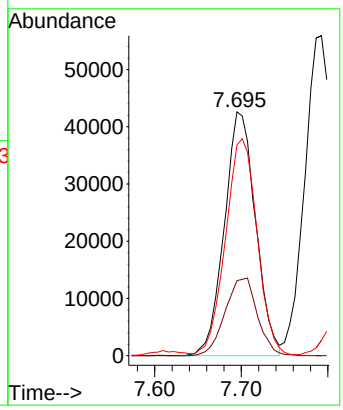
Tgt Ion: 56 Resp: 10673

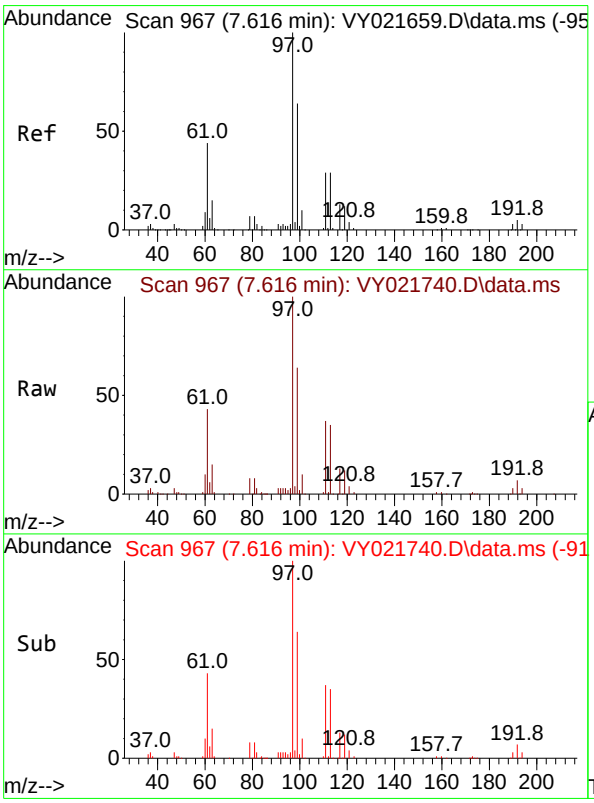
Ion	Ratio	Lower	Upper
56	100		
69	30.8	26.6	40.0
84	85.2	69.0	103.4

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

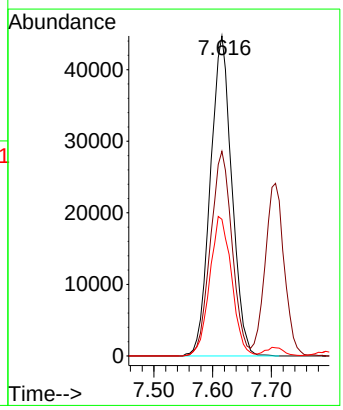


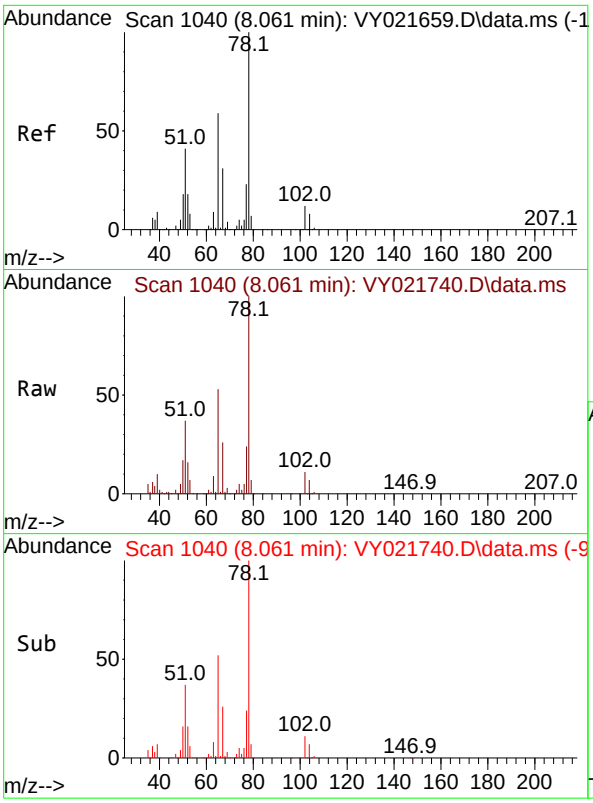


#32
1,1,1-Trichloroethane
Concen: 59.468 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 97 Resp: 113238

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.7	76.1
61	44.6	35.2	52.8

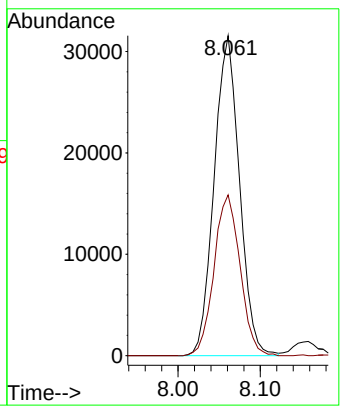




#33
1,2-Dichloroethane-d4
Concen: 64.651 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 65 Resp: 6763

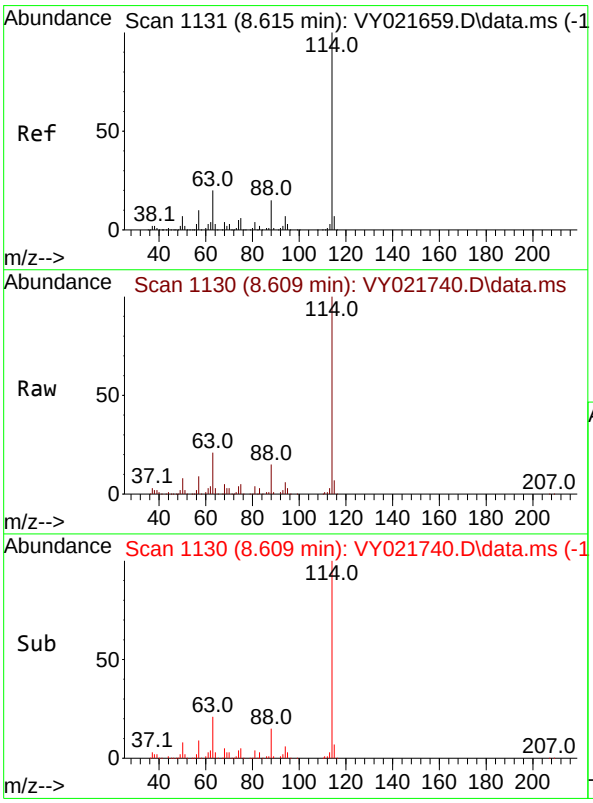
Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

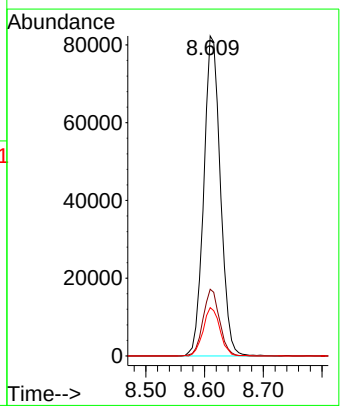
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

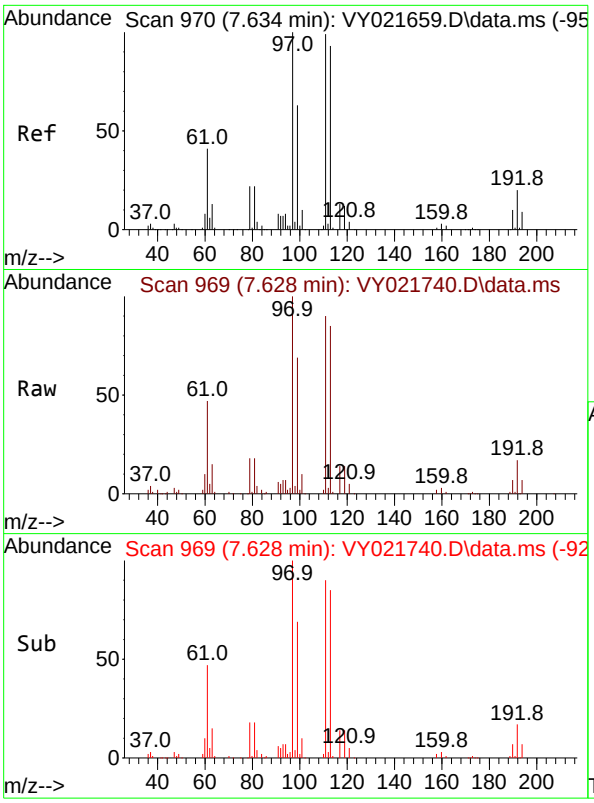


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:114 Resp: 161499

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.2
88	15.1	0.0	29.8

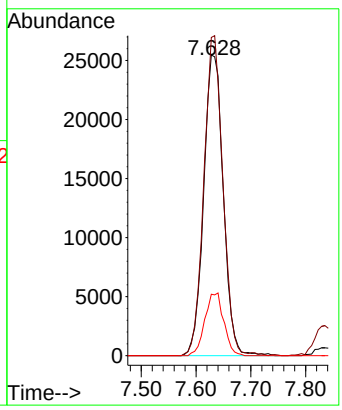




#35
Dibromofluoromethane
Concen: 60.341 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:113 Resp: 6321

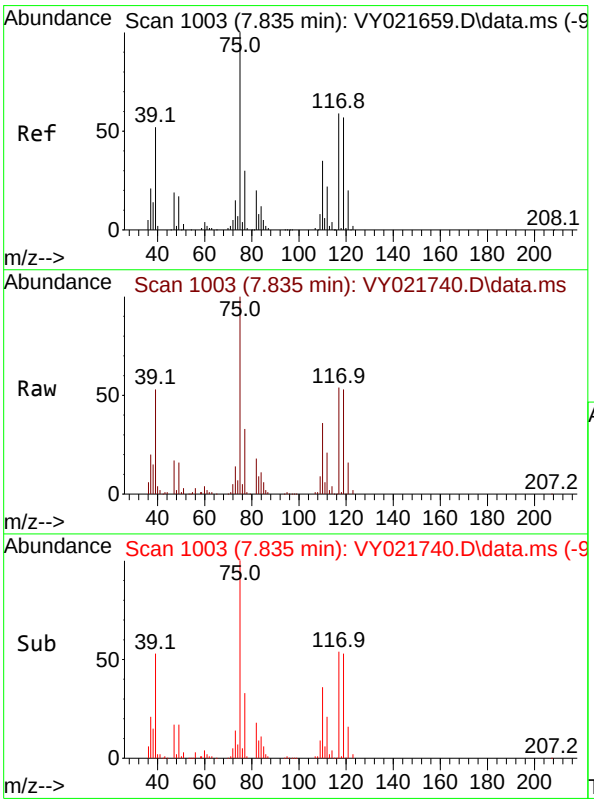
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	20.1	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

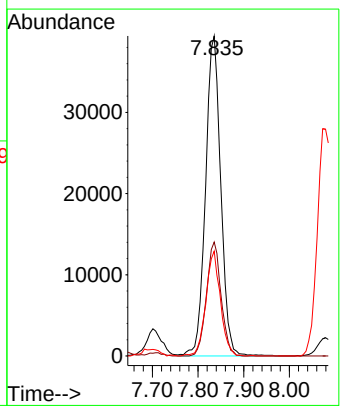
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

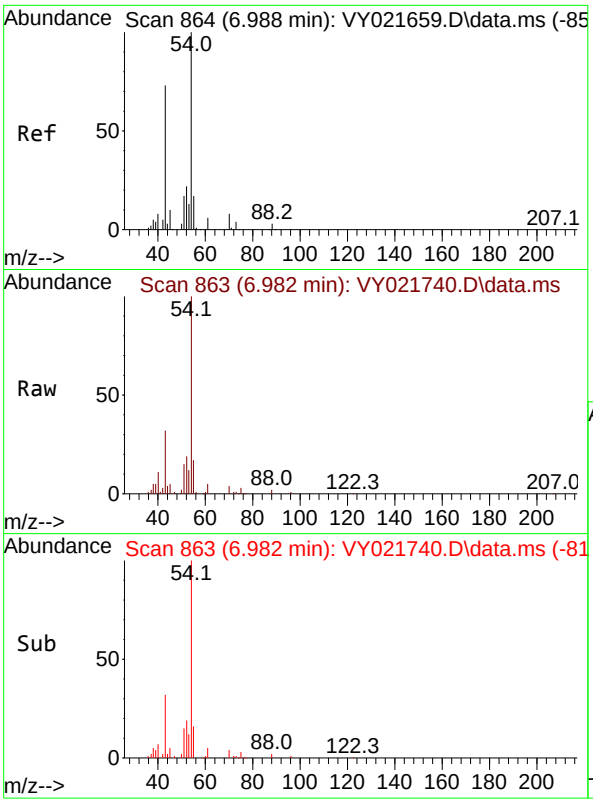


#36
1,1-Dichloropropene
Concen: 57.149 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 75 Resp: 91192

Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.0	50.9
77	31.3	24.8	37.2





#37
Ethyl Acetate
Concen: 23.245 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

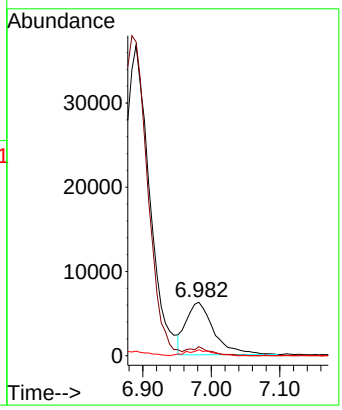
Tgt Ion: 43 Resp: 1750

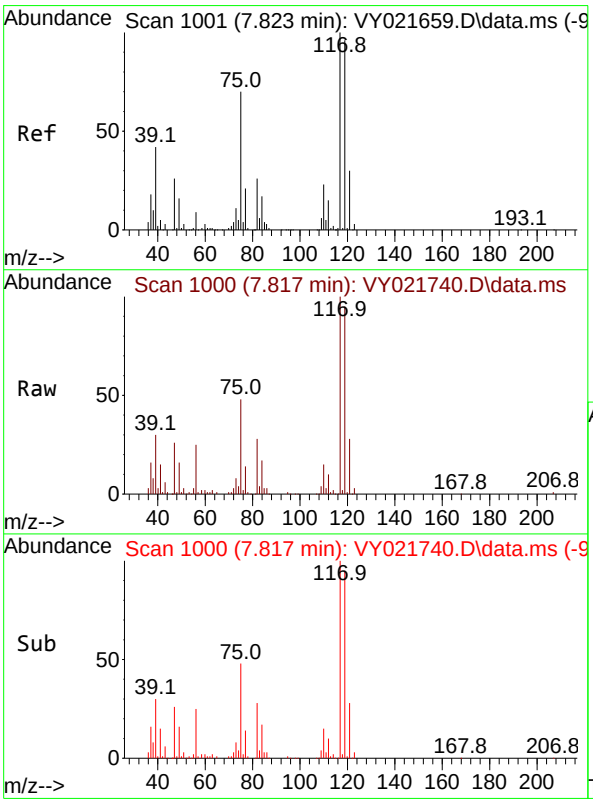
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6
70	10.0	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

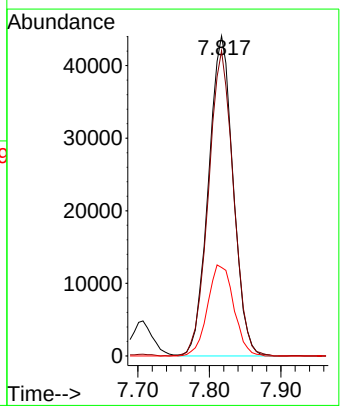


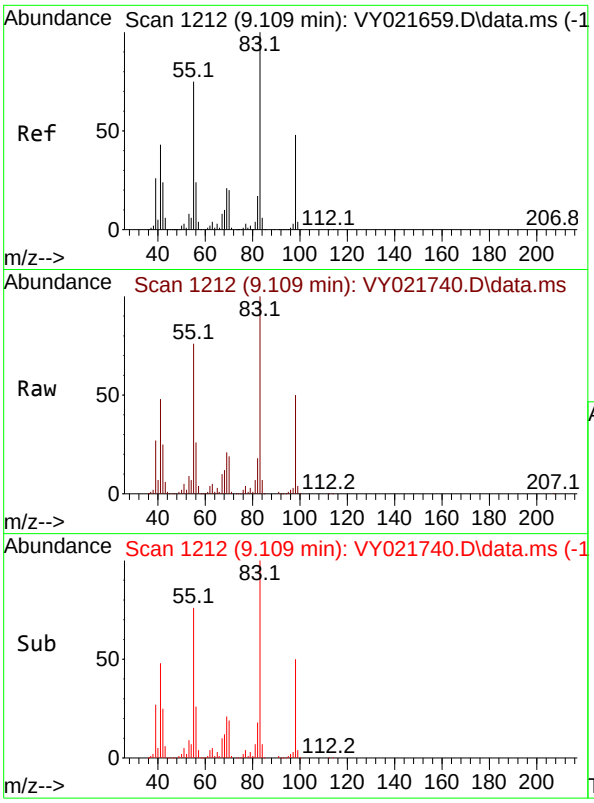


#38
Carbon Tetrachloride
Concen: 57.920 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:117 Resp: 105855

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.2	114.4
121	27.7	24.2	36.4





#39
Methylcyclohexane
Concen: 58.387 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

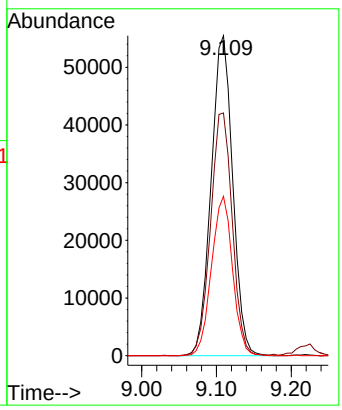
Tgt Ion: 83 Resp: 11129

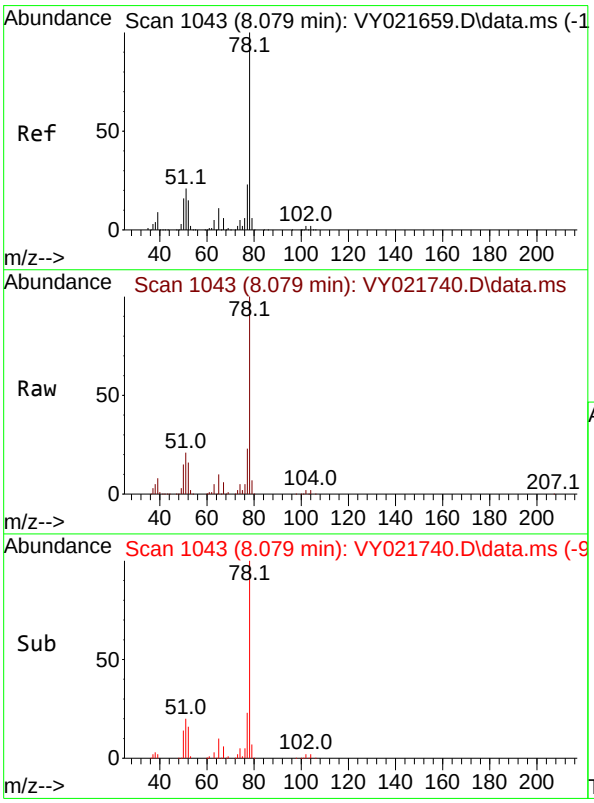
Ion	Ratio	Lower	Upper
83	100		
55	75.8	59.7	89.5
98	49.8	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

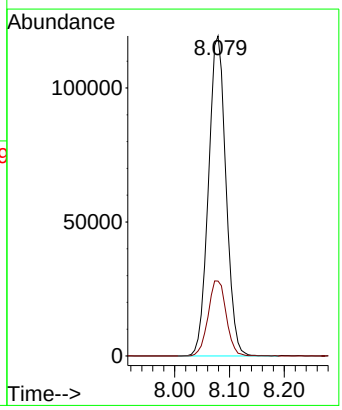


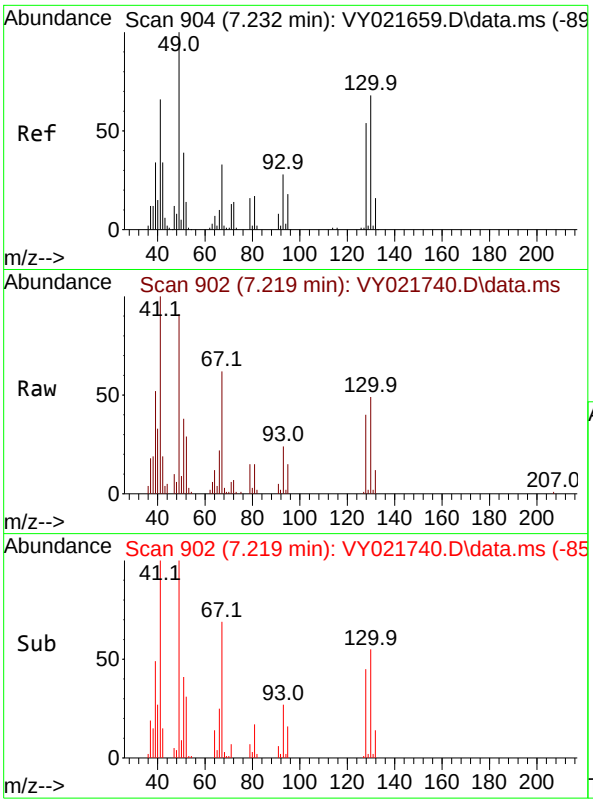


#40
Benzene
Concen: 55.258 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 78 Resp: 264063

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2

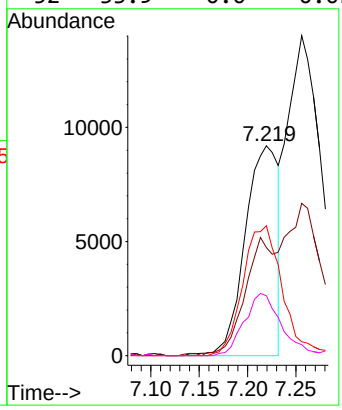




#41
Methacrylonitrile
Concen: 54.797 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 41 Resp: 2191

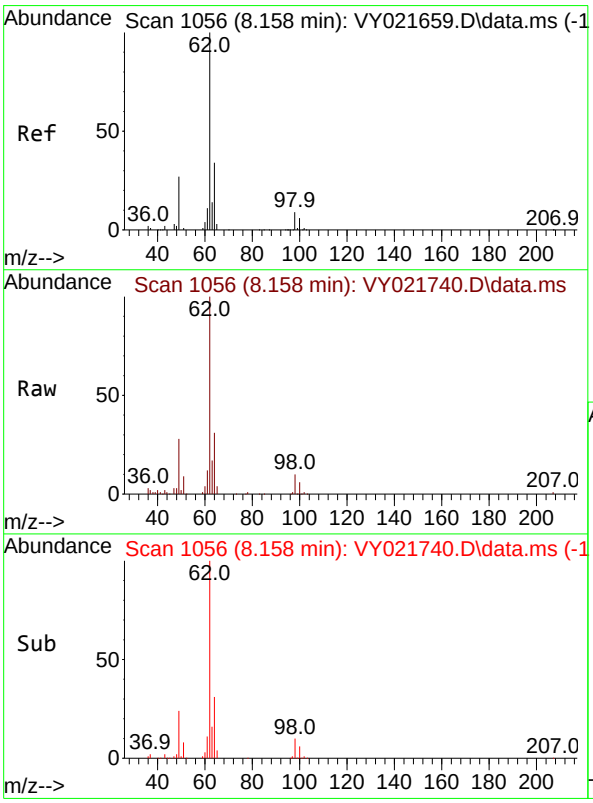
Ion	Ratio	Lower	Upper
41	100		
39	46.3	0.0	0.0#
67	73.8	0.0	0.0#
52	33.9	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

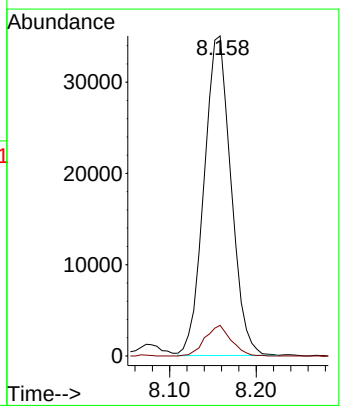
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

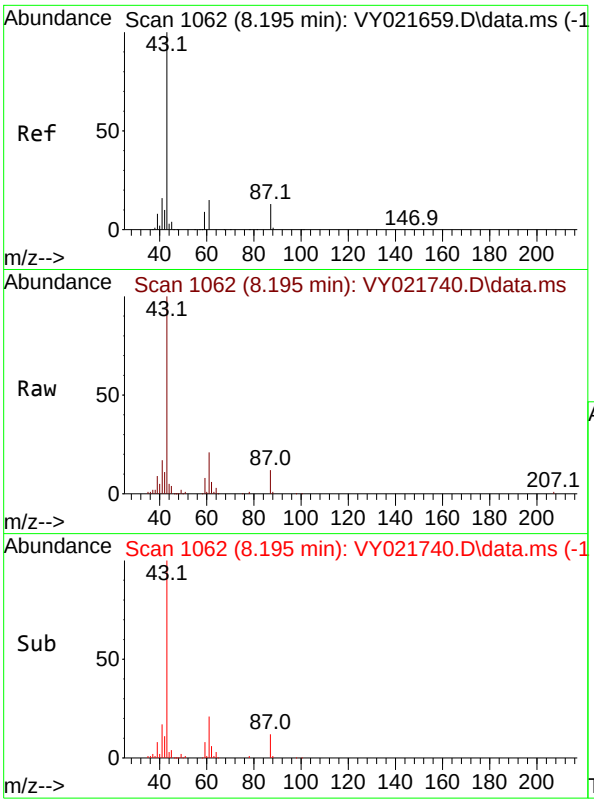


#42
1,2-Dichloroethane
Concen: 56.112 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 62 Resp: 75593

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4

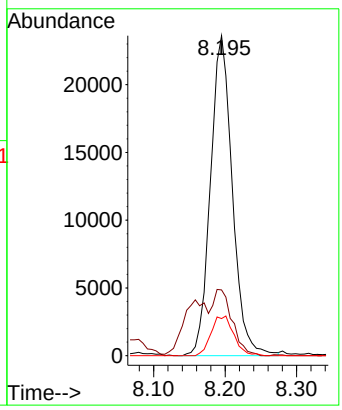




#43
Isopropyl Acetate
Concen: 35.206 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 43 Resp: 5024

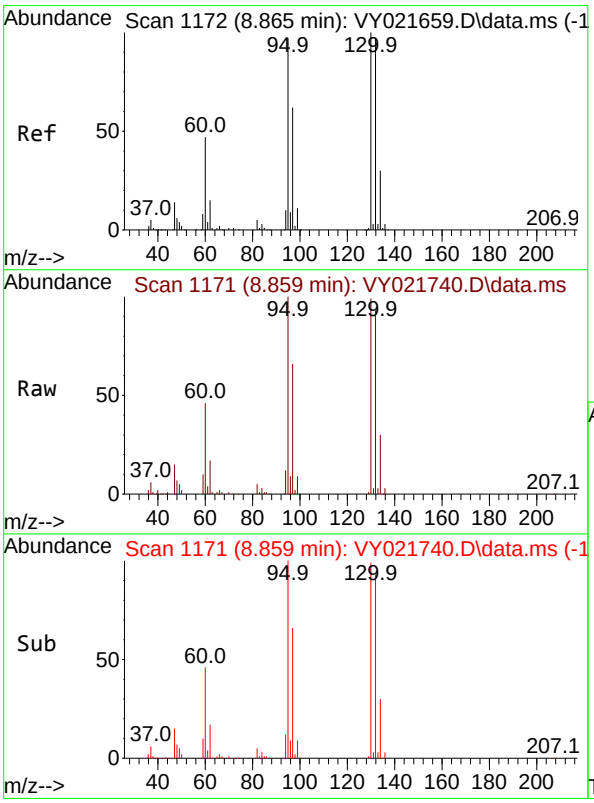
Ion	Ratio	Lower	Upper
43	100		
61	18.4	15.9	23.9
87	12.9	10.4	15.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

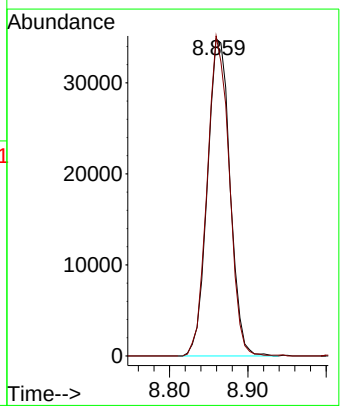
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

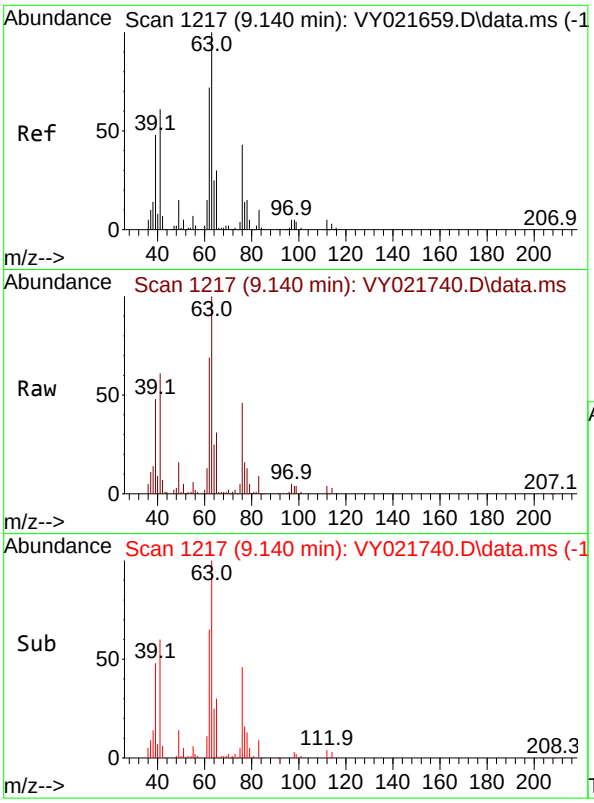


#44
Trichloroethene
Concen: 57.419 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:130 Resp: 69912

Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	194.8

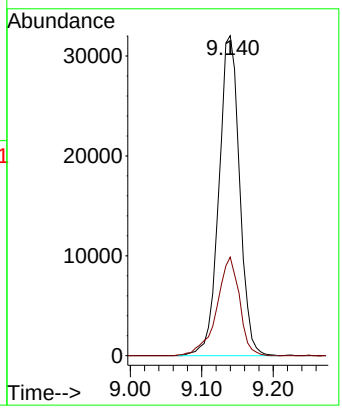




#45
1,2-Dichloropropane
Concen: 56.880 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 63 Resp: 6433

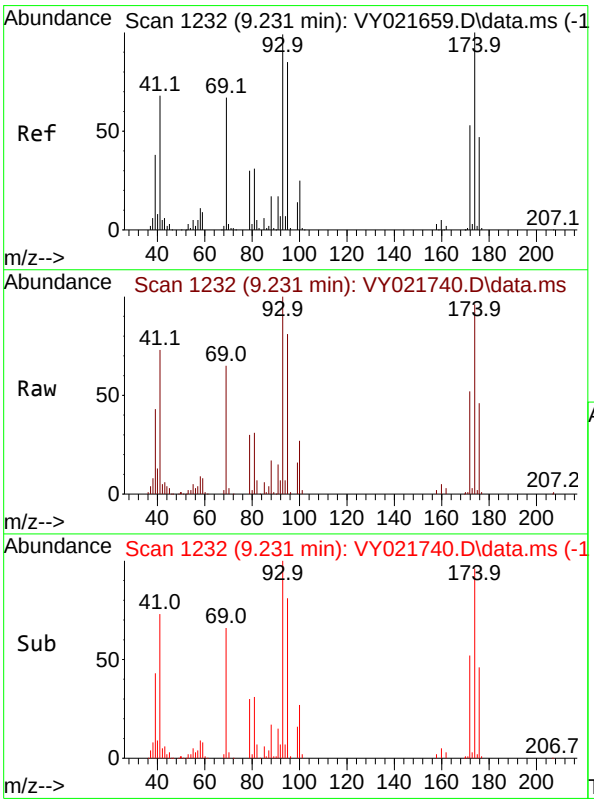
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

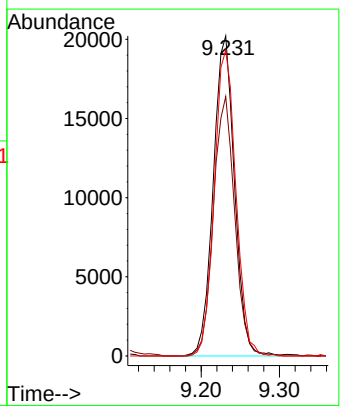
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

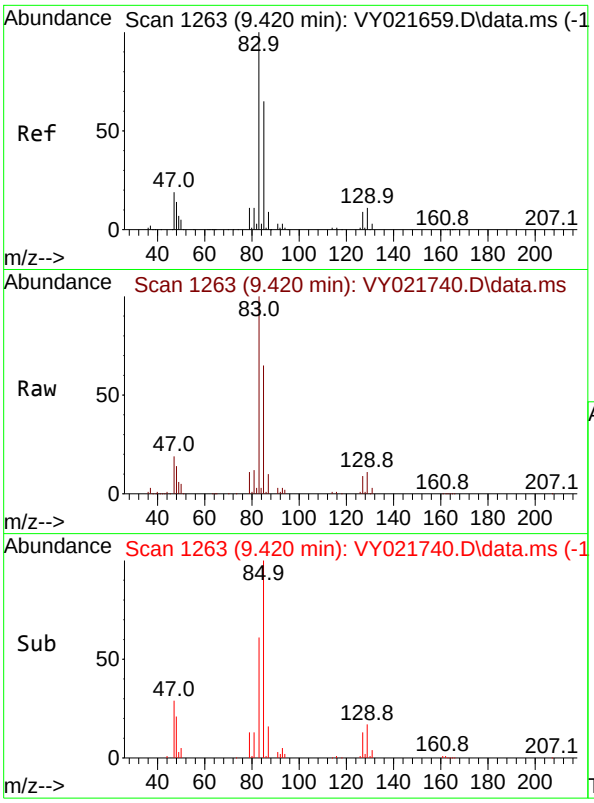


#46
Dibromomethane
Concen: 58.472 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 93 Resp: 38118

Ion	Ratio	Lower	Upper
93	100		
95	81.7	68.1	102.1
174	96.7	80.9	121.3

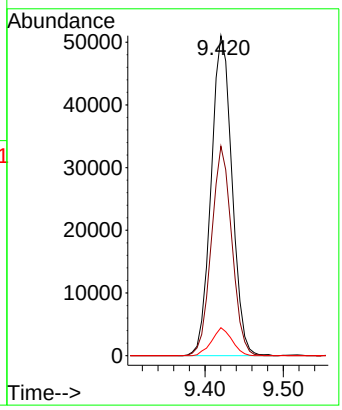




#47
Bromodichloromethane
Concen: 55.913 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 83 Resp: 9444

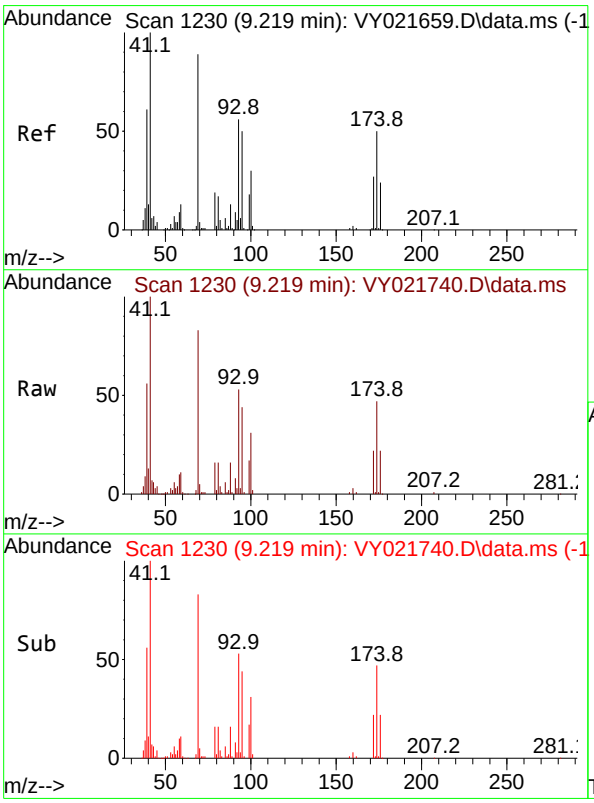
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6
127	8.8	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

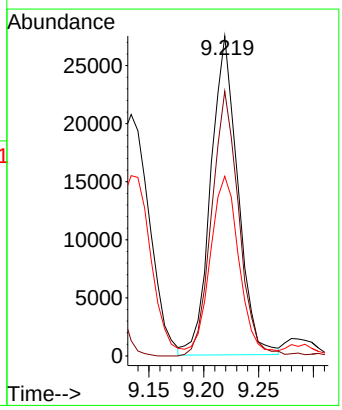
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

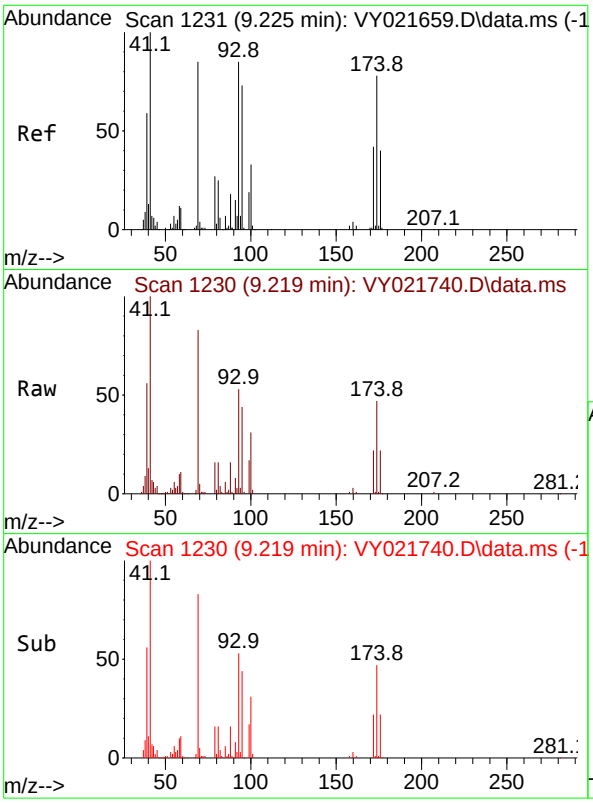


#48
Methyl methacrylate
Concen: 72.024 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 41 Resp: 47175

Ion	Ratio	Lower	Upper
41	100		
69	82.7	69.8	104.8
39	56.0	47.2	70.8

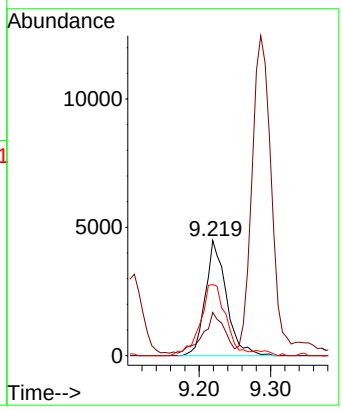




#49
1,4-Dioxane
Concen: 1306.783 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 88 Resp: 912

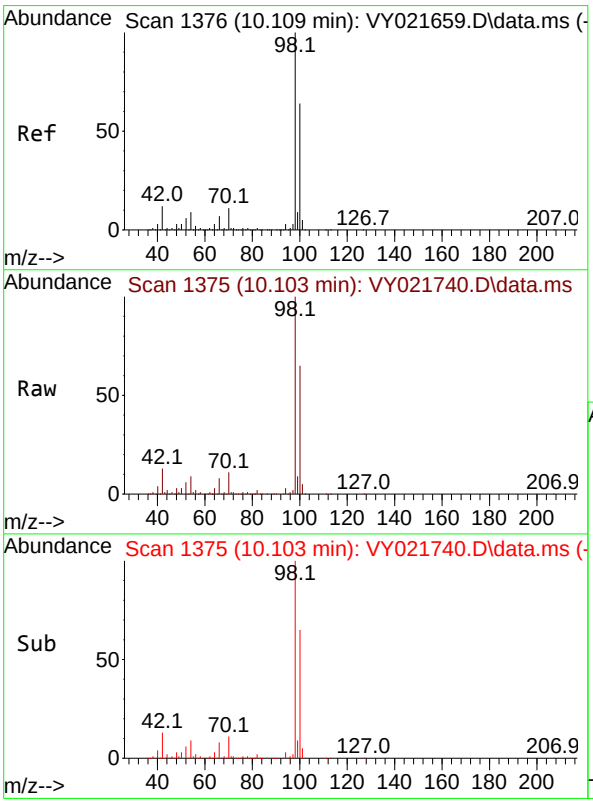
Ion	Ratio	Lower	Upper
88	100		
43	35.2	28.8	43.2
58	75.5	59.4	89.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

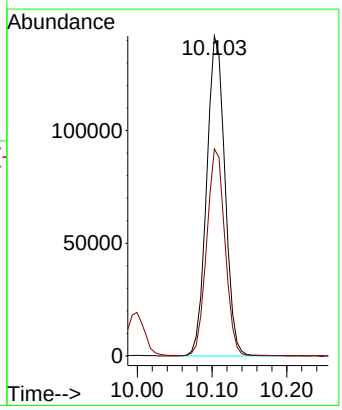
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

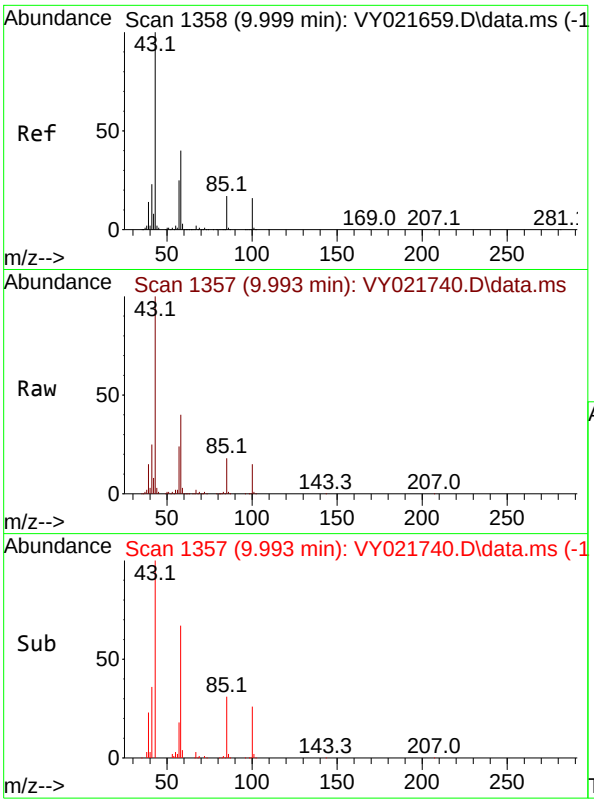


#50
Toluene-d8
Concen: 60.412 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 98 Resp: 240767

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.1	78.1

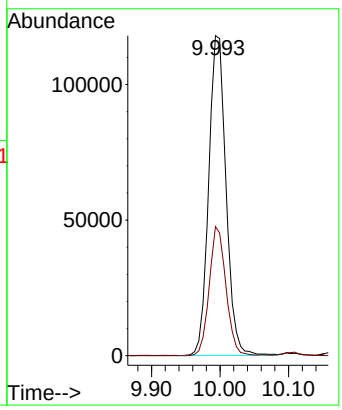




#51
4-Methyl-2-Pentanone
Concen: 279.970 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 43 Resp: 20792

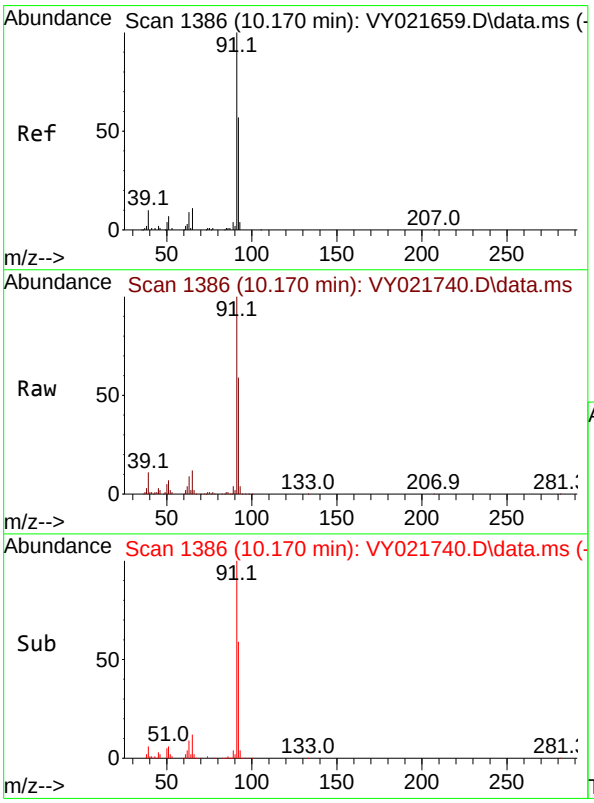
Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

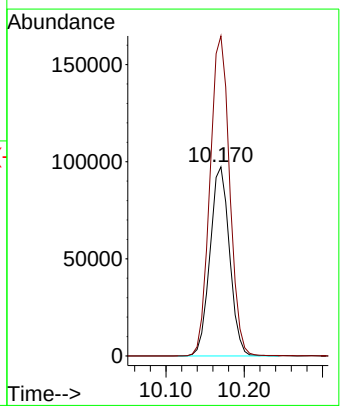
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

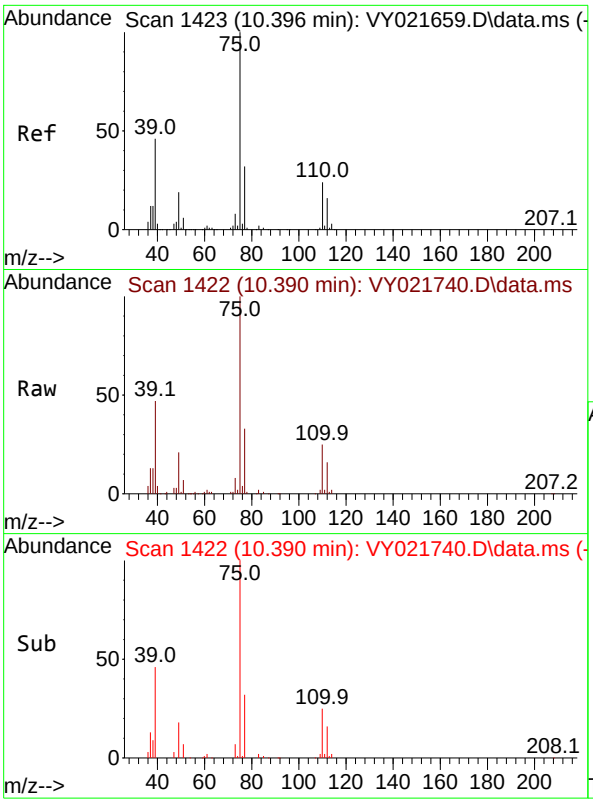


#52
Toluene
Concen: 56.453 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 92 Resp: 168313

Ion	Ratio	Lower	Upper
92	100		
91	170.8	138.6	207.8

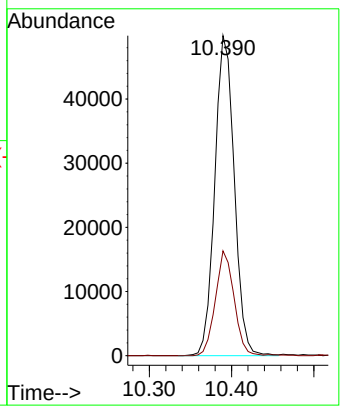




#53
t-1,3-Dichloropropene
Concen: 54.752 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 75 Resp: 8214

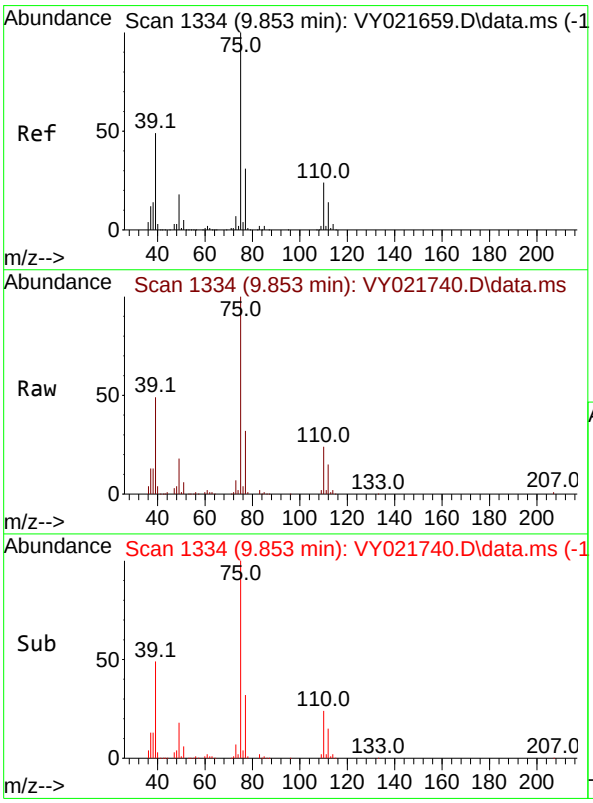
Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

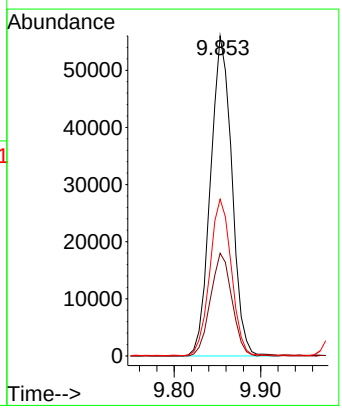
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

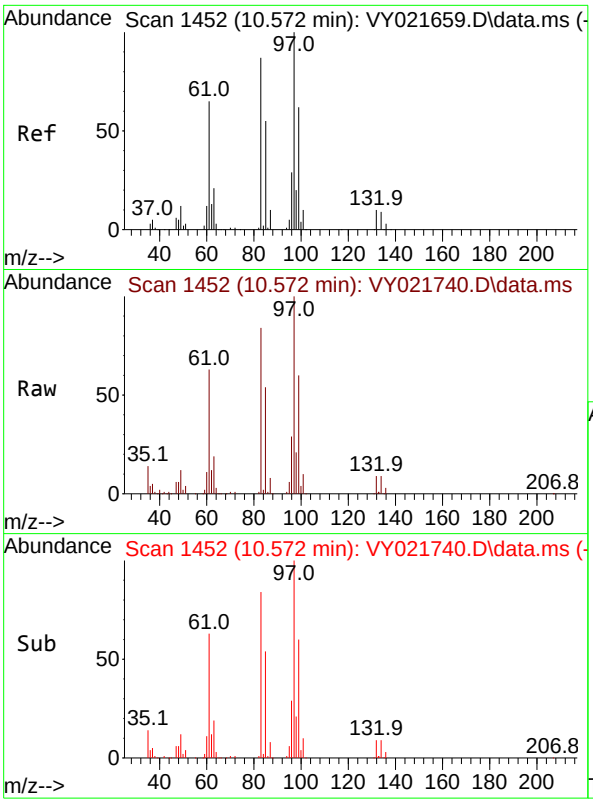


#54
cis-1,3-Dichloropropene
Concen: 54.219 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 75 Resp: 95970

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.9	37.3
39	48.8	39.2	58.8

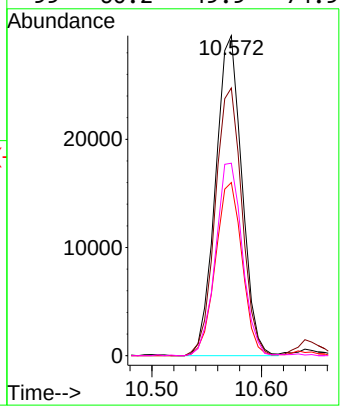




#55
1,1,2-Trichloroethane
Concen: 59.011 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 97 Resp: 4950

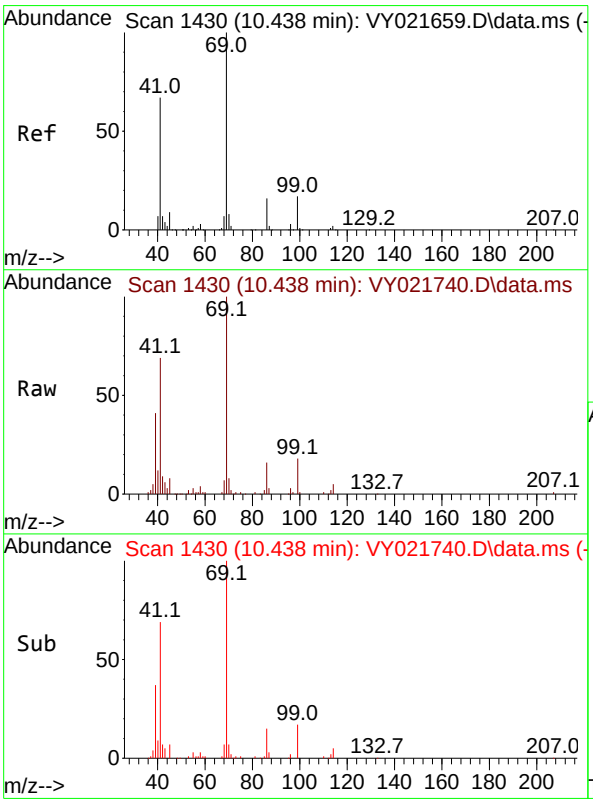
Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.5	104.3
85	54.1	43.9	65.9
99	60.2	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

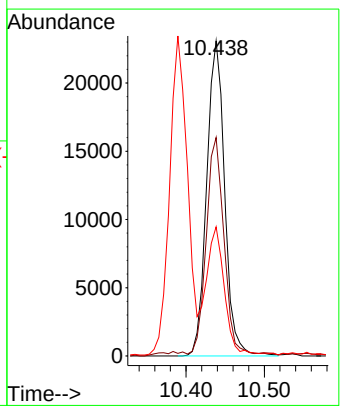
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

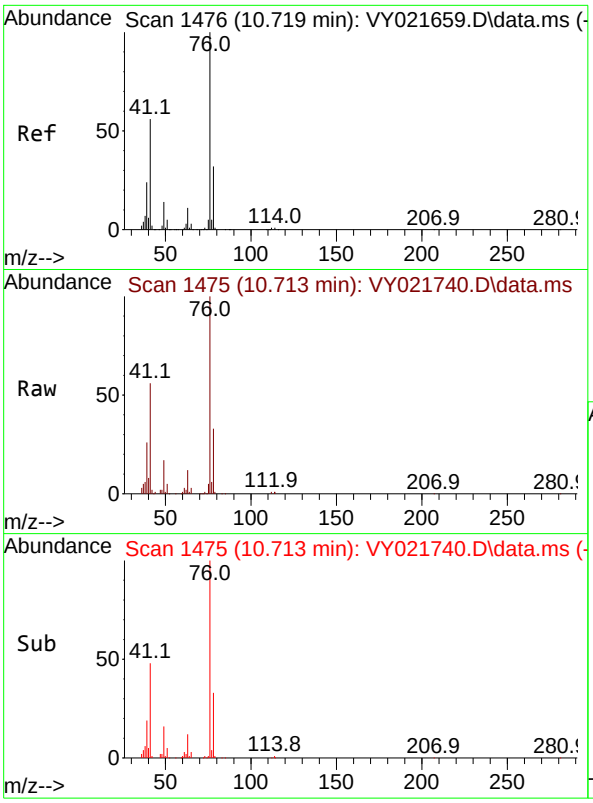


#56
Ethyl methacrylate
Concen: 34.332 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 69 Resp: 36777

Ion	Ratio	Lower	Upper
69	100		
41	66.8	53.8	80.6
39	40.0	29.6	44.4

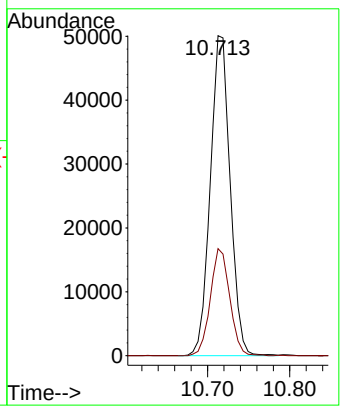




#57
1,3-Dichloropropane
Concen: 58.107 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 76 Resp: 8418

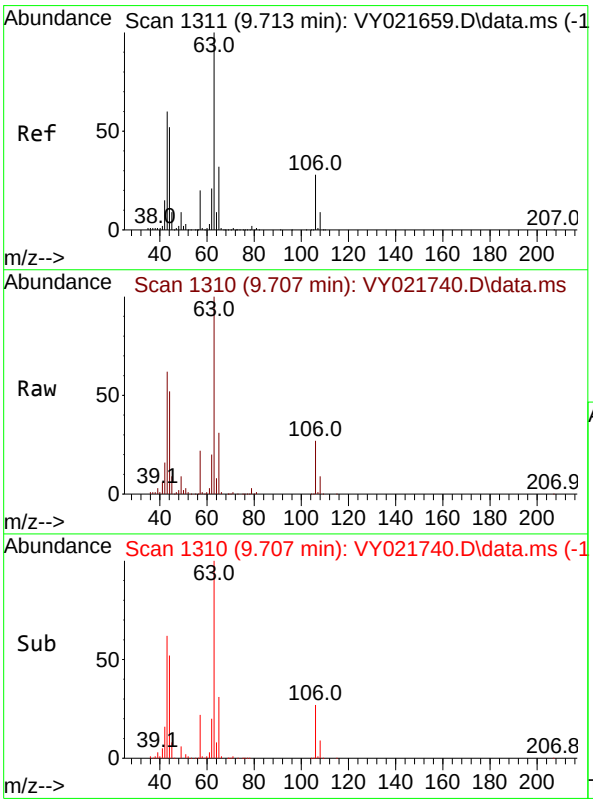
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

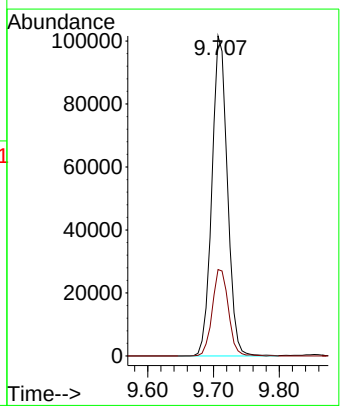
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

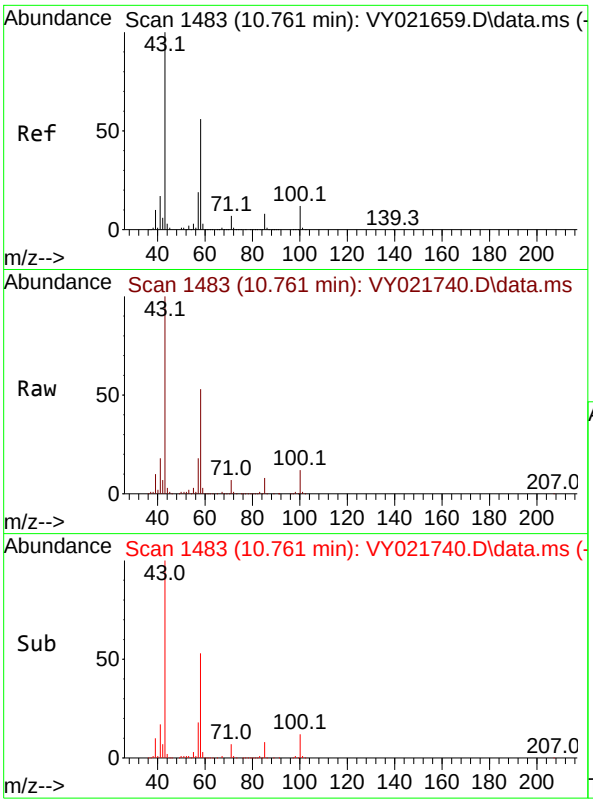


#58
2-Chloroethyl Vinyl ether
Concen: 318.709 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 63 Resp: 166548

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6





#59
2-Hexanone
Concen: 269.069 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

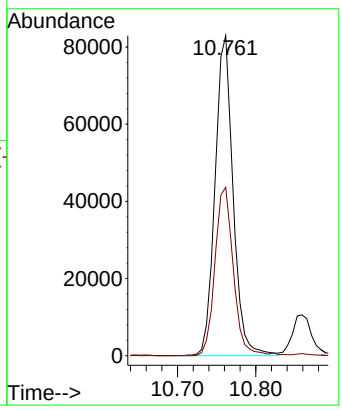
Tgt Ion: 43 Resp: 13308

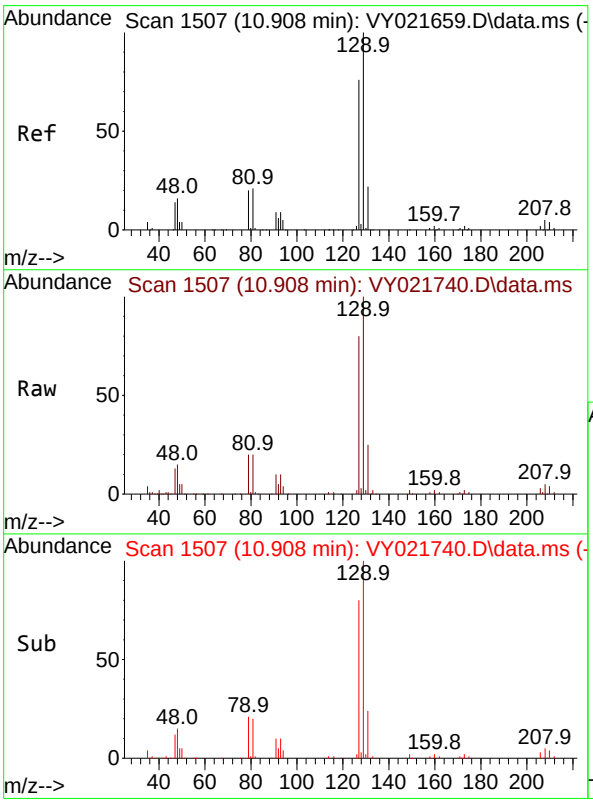
Ion	Ratio	Lower	Upper
43	100		
58	53.7	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

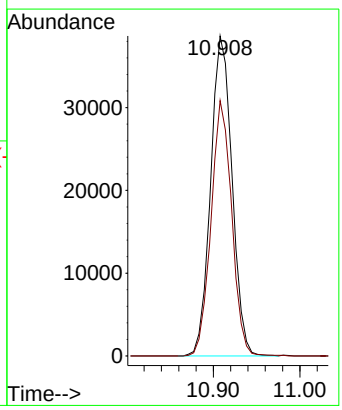


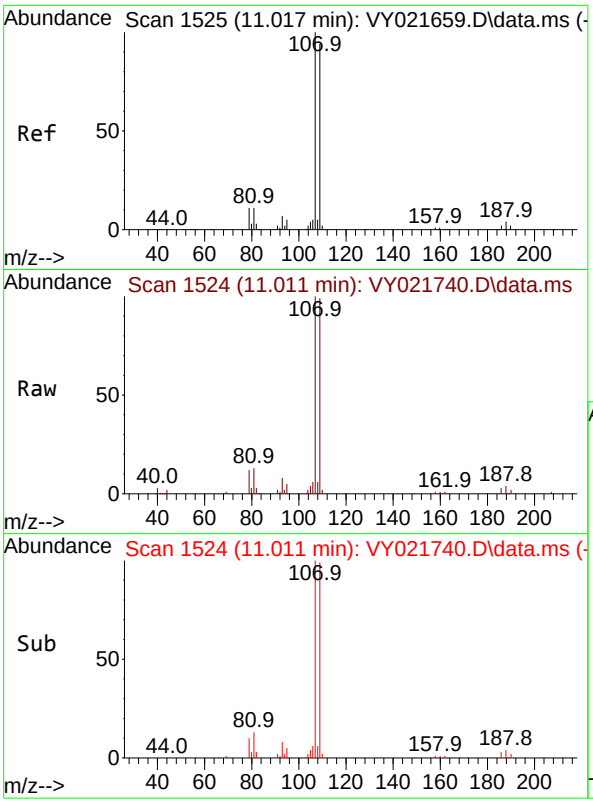


#60
Dibromochloromethane
Concen: 57.857 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:129 Resp: 66270

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.6	115.7

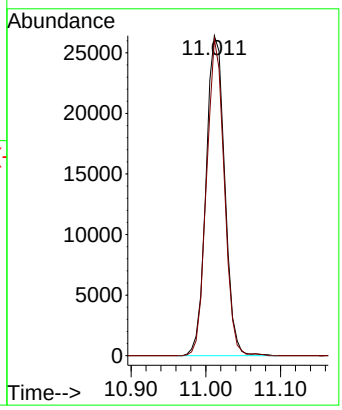




#61
1,2-Dibromoethane
Concen: 58.240 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:107 Resp: 4583

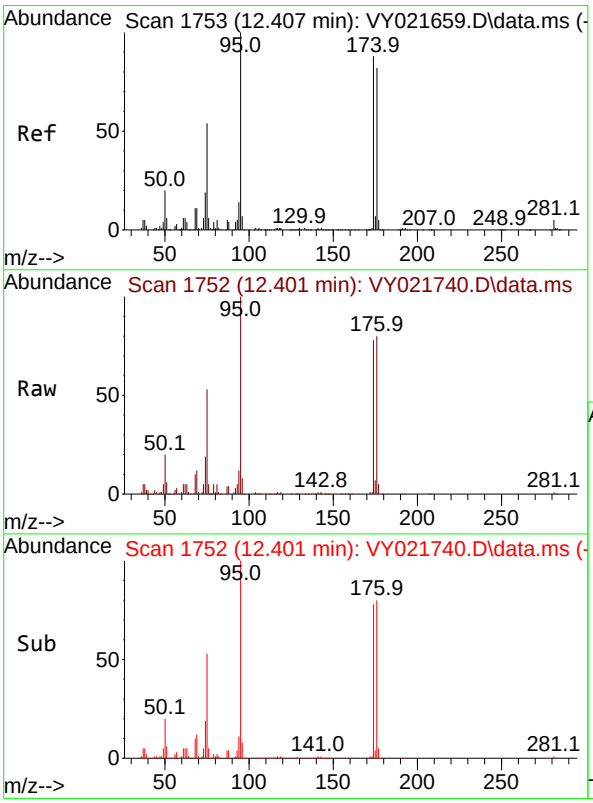
Ion	Ratio	Lower	Upper
107	100		
109	93.8	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

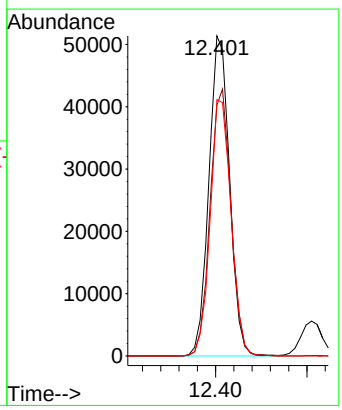
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

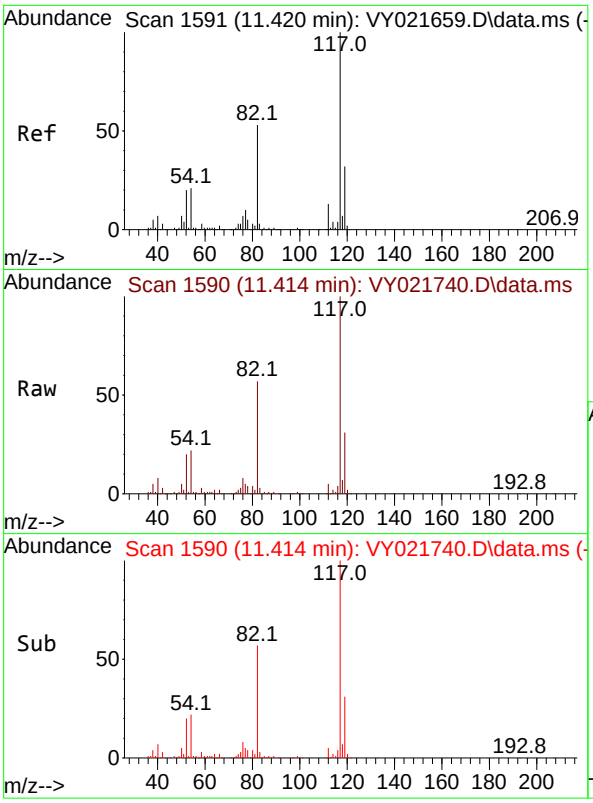


#62
4-Bromofluorobenzene
Concen: 59.726 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 95 Resp: 80515

Ion	Ratio	Lower	Upper
95	100		
174	84.1	0.0	170.8
176	81.0	0.0	162.0

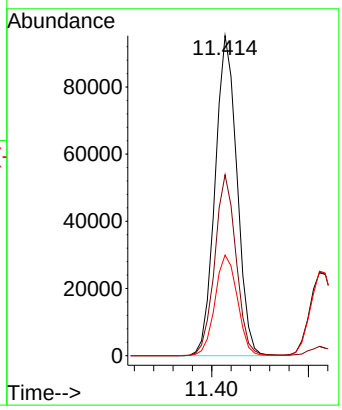




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:117 Resp: 14908

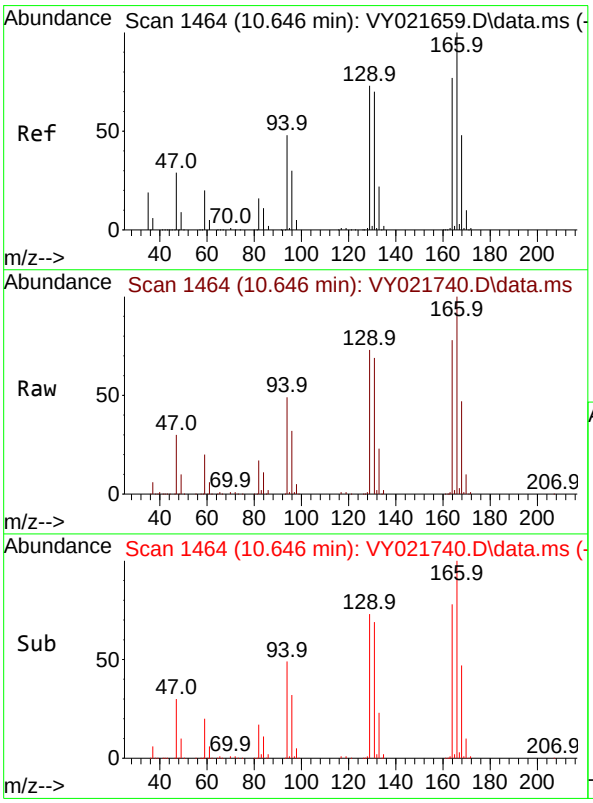
Ion	Ratio	Lower	Upper
117	100		
82	56.6	42.8	64.2
119	31.5	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

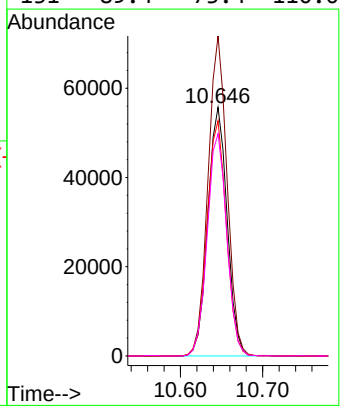
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

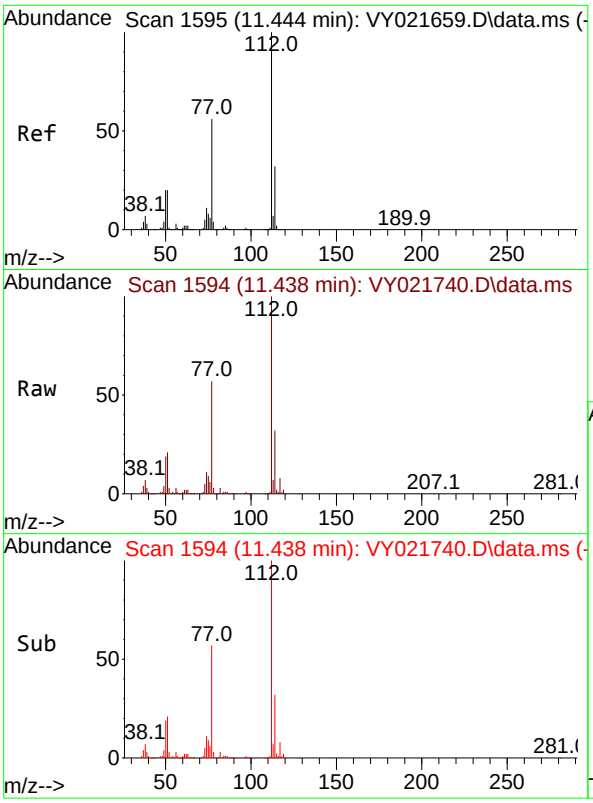


#64
Tetrachloroethene
Concen: 67.236 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:164 Resp: 91293

Ion	Ratio	Lower	Upper
164	100		
166	128.7	104.6	156.8
129	94.6	76.6	114.8
131	89.4	73.4	110.0

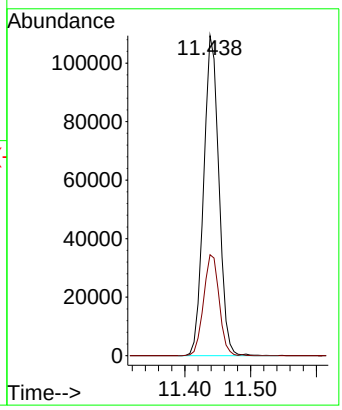




#65
Chlorobenzene
Concen: 51.537 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:112 Resp: 17612

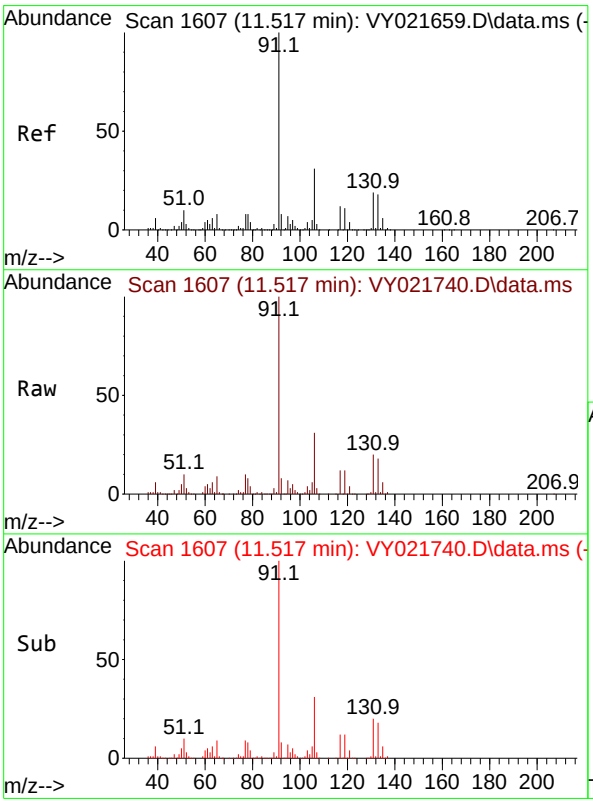
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

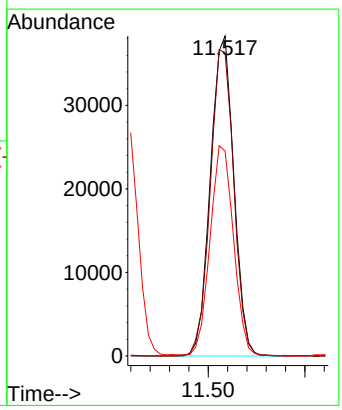
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

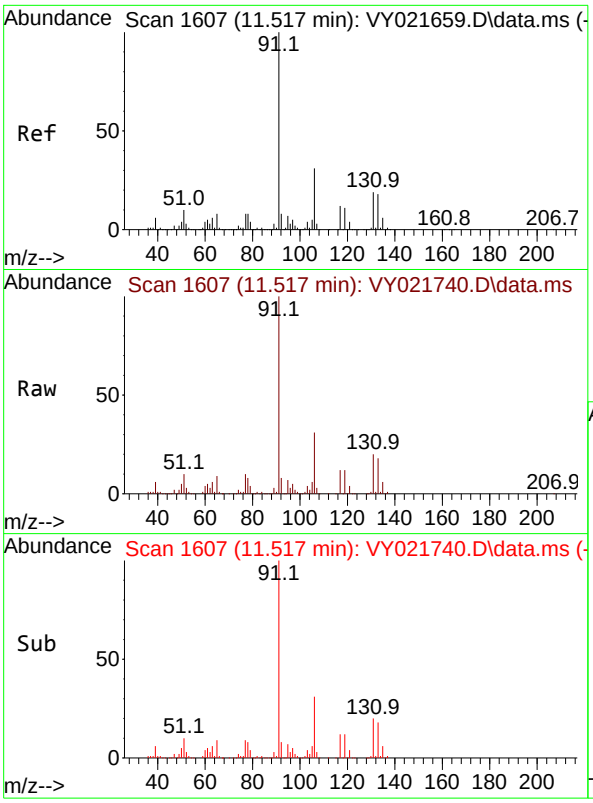


#66
1,1,1,2-Tetrachloroethane
Concen: 53.018 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:131 Resp: 64285

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	141.8
119	66.2	31.6	95.0





#67
Ethyl Benzene
Concen: 51.516 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

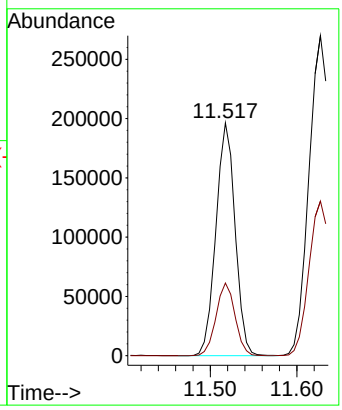
Tgt Ion: 91 Resp: 30189

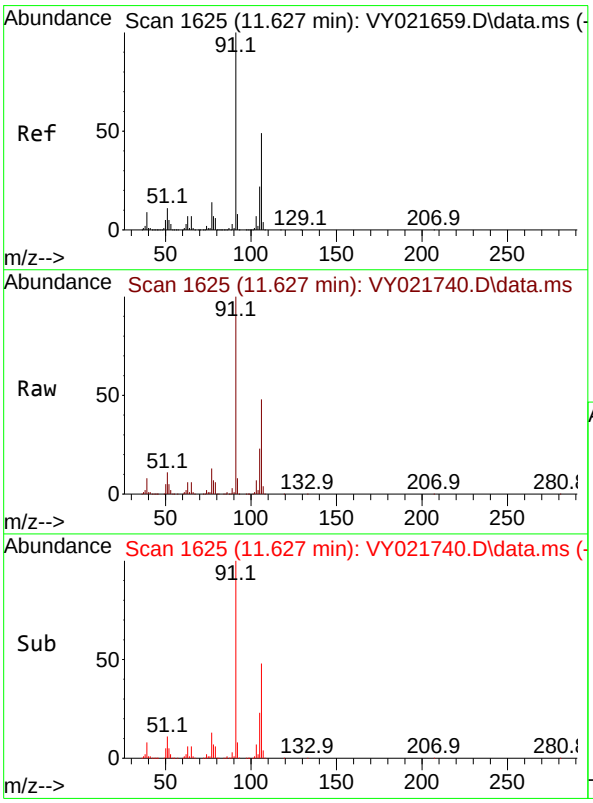
Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.6	36.8

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

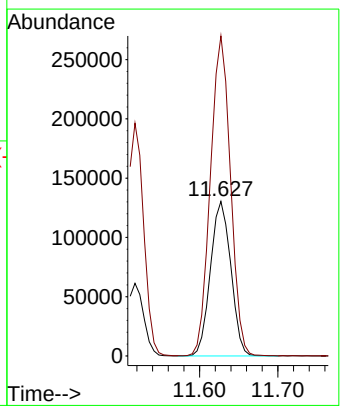


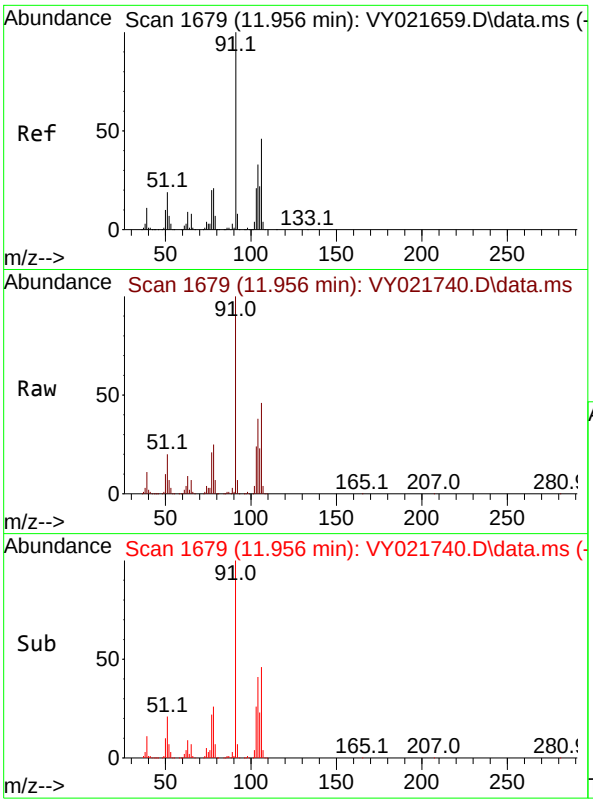


#68
m/p-Xylenes
Concen: 105.243 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:106 Resp: 236168

Ion	Ratio	Lower	Upper
106	100		
91	203.7	162.4	243.6

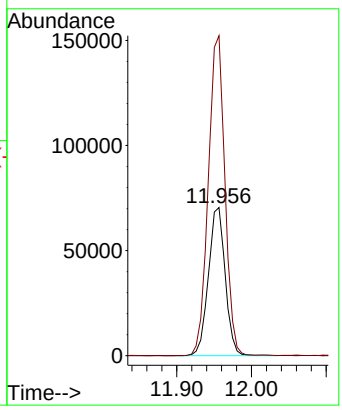




#69
o-Xylene
Concen: 53.243 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:106 Resp: 11028

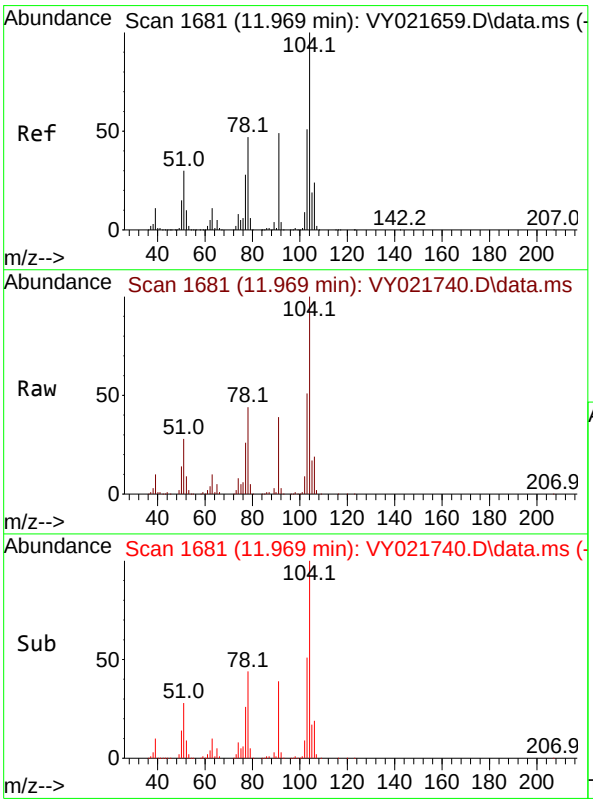
Ion	Ratio	Lower	Upper
106	100		
91	213.7	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

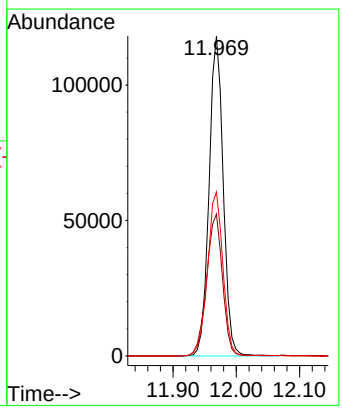
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

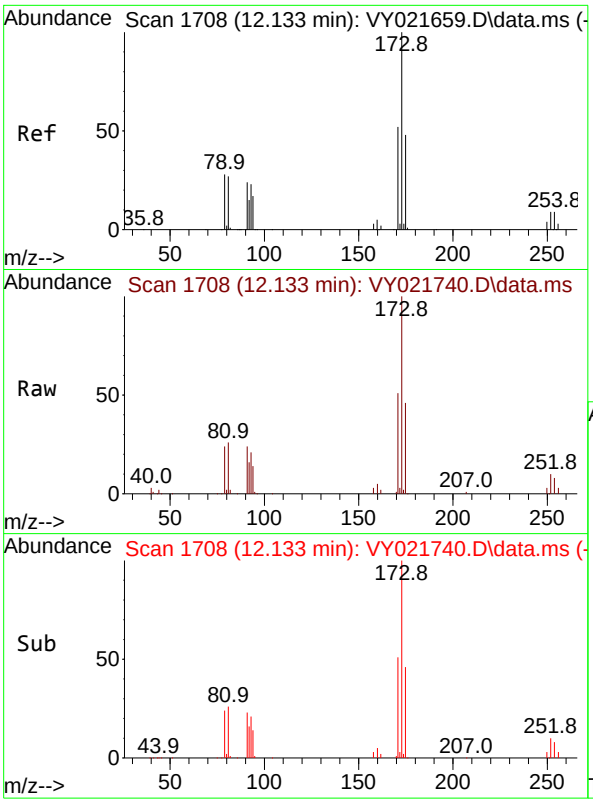


#70
Styrene
Concen: 53.192 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:104 Resp: 183712

Ion	Ratio	Lower	Upper
104	100		
78	49.9	40.8	61.2
103	55.8	44.2	66.2

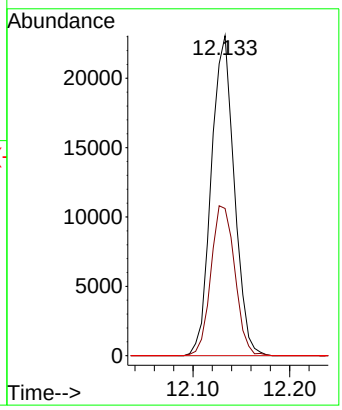




#71
Bromoform
Concen: 55.046 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

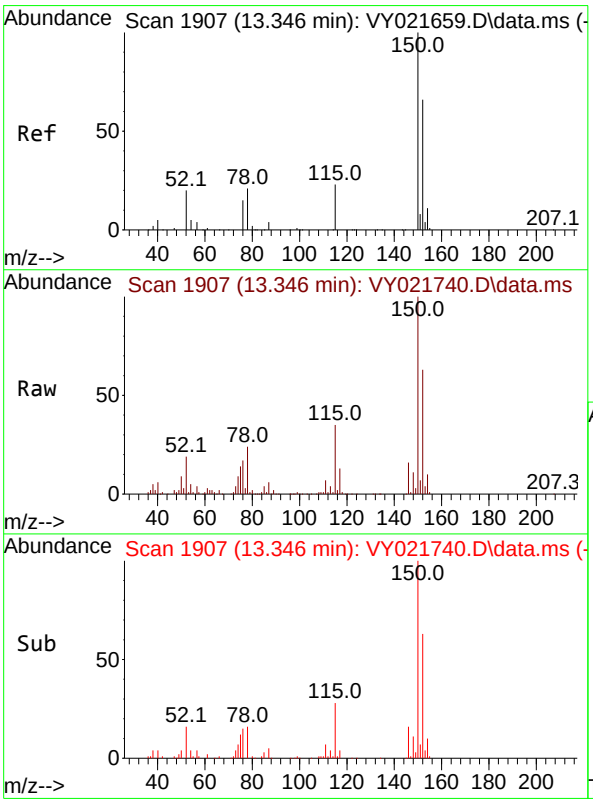
Tgt Ion:173 Resp: 3807

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	73.0
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

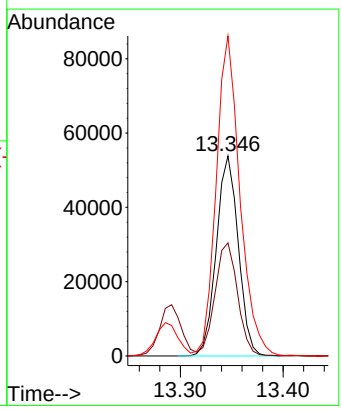
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

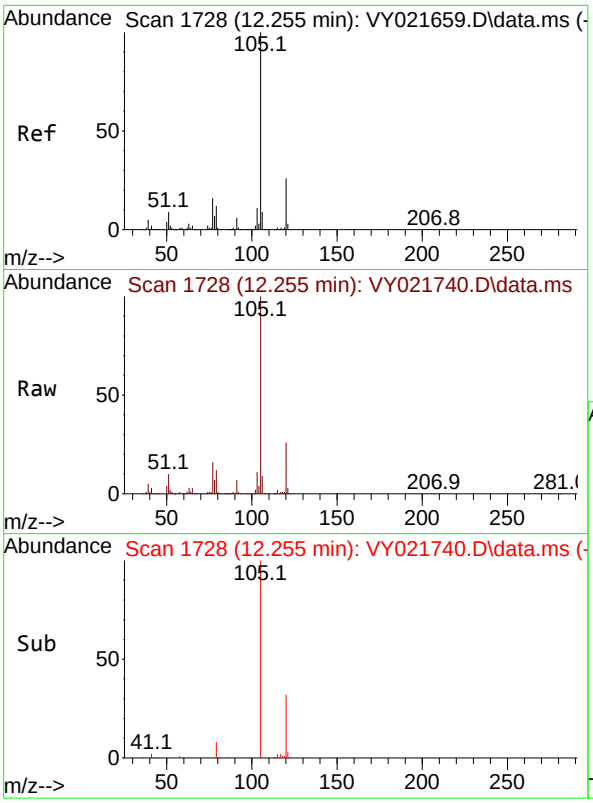


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:152 Resp: 79914

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.8	86.5
150	172.8	0.0	348.4

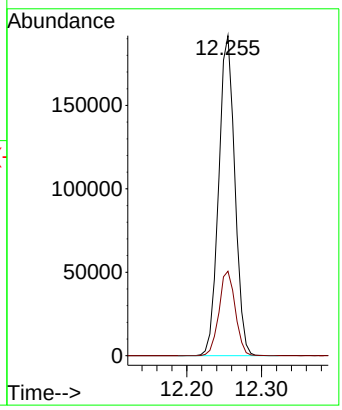




#73
Isopropylbenzene
Concen: 48.579 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:105 Resp: 28834

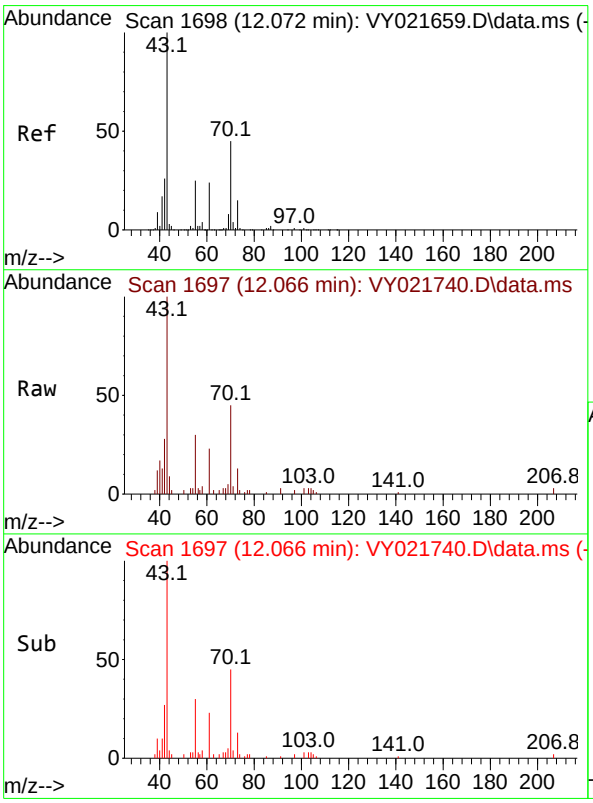
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

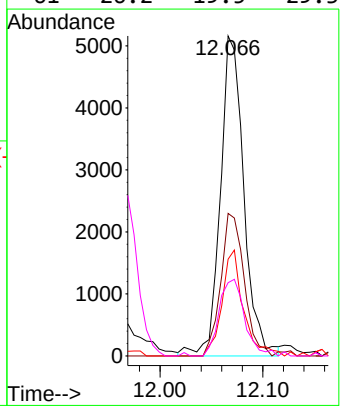
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

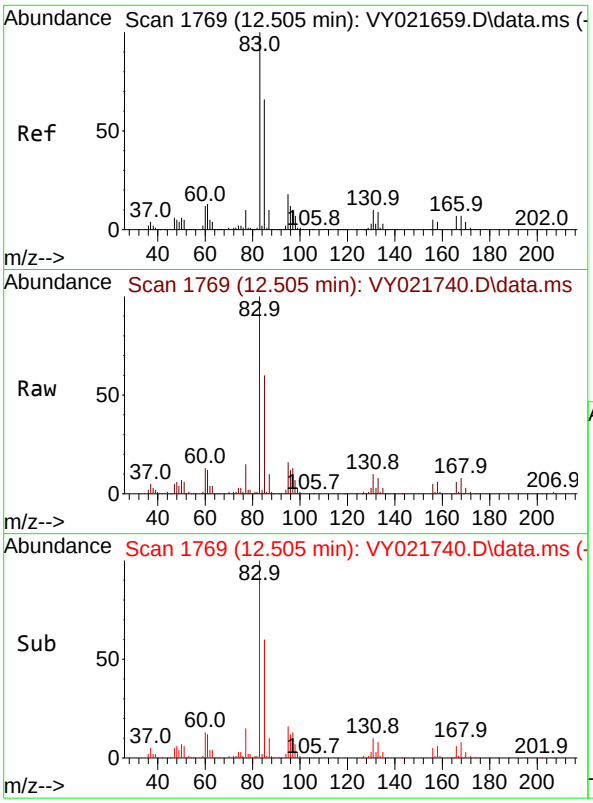


#74
N-amyl acetate
Concen: 5.874 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 43 Resp: 8183

Ion	Ratio	Lower	Upper
43	100		
70	44.2	34.7	52.1
55	30.1	21.2	31.8
61	26.2	19.5	29.3

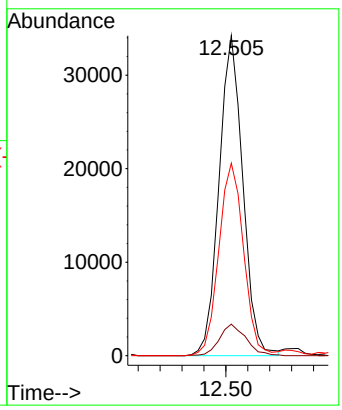




#75
1,1,2,2-Tetrachloroethane
Concen: 48.365 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 83 Resp: 5161

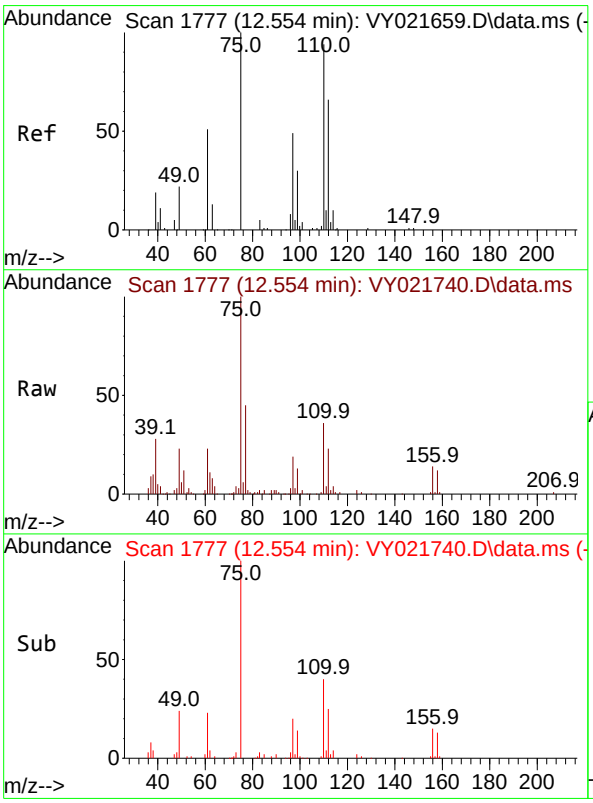
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.1	15.3
85	62.5	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

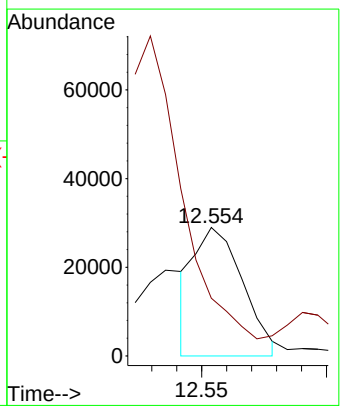
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

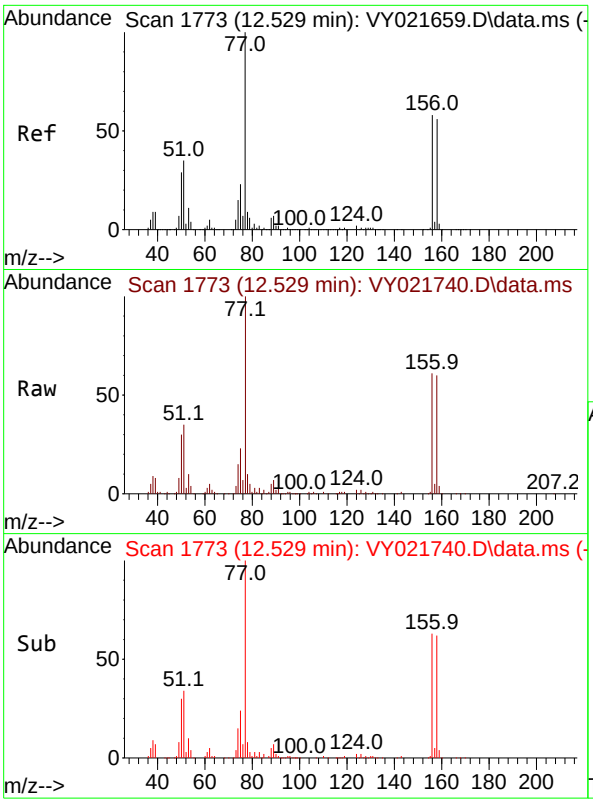


#76
1,2,3-Trichloropropane
Concen: 49.499 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 75 Resp: 39211

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

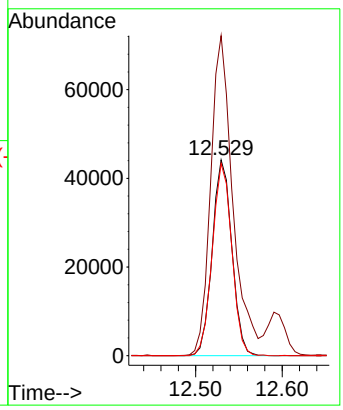




#77
Bromobenzene
Concen: 48.740 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:156 Resp: 6946

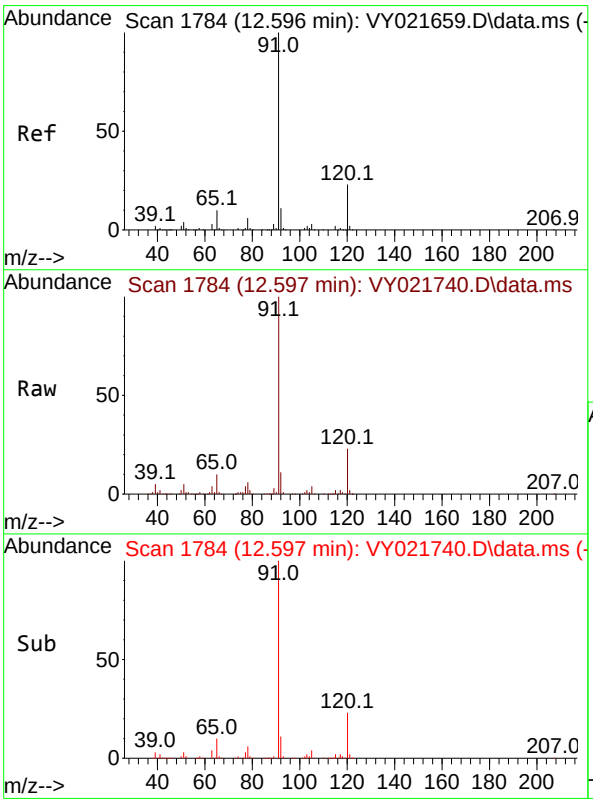
Ion	Ratio	Lower	Upper
156	100		
77	183.9	92.8	278.3
158	97.5	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

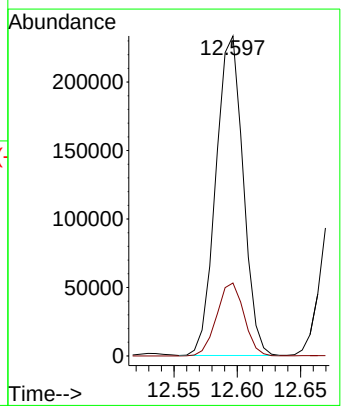
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

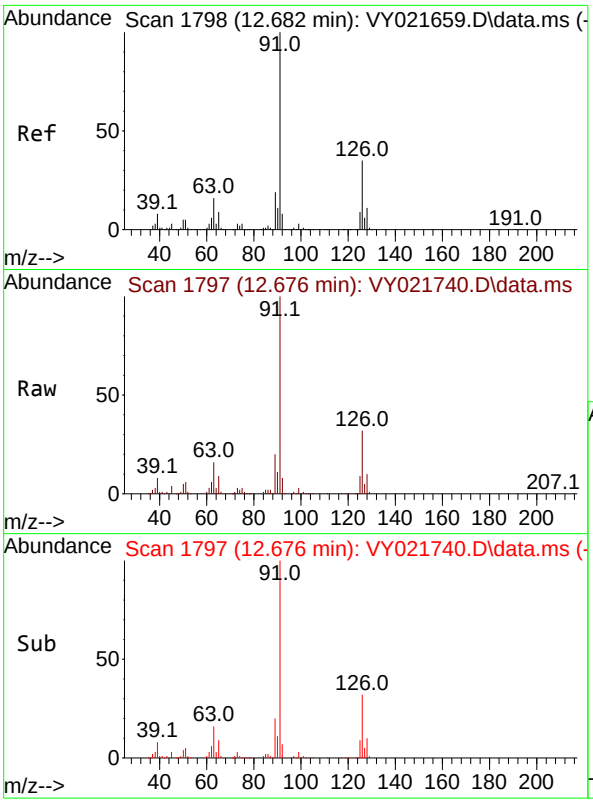


#78
n-propylbenzene
Concen: 48.950 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 91 Resp: 349302

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.3	33.9

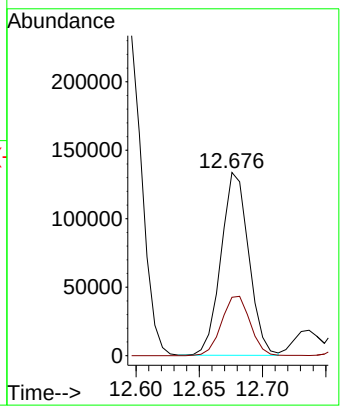




#79
2-Chlorotoluene
Concen: 49.148 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 91 Resp: 20370

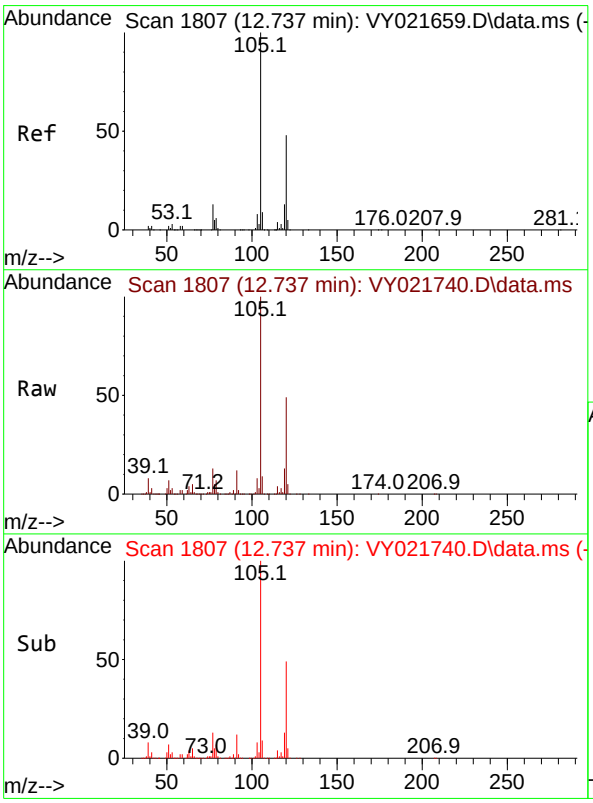
Ion	Ratio	Lower	Upper
91	100		
126	33.6	17.3	52.0



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

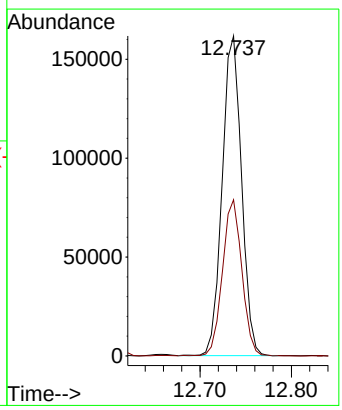
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

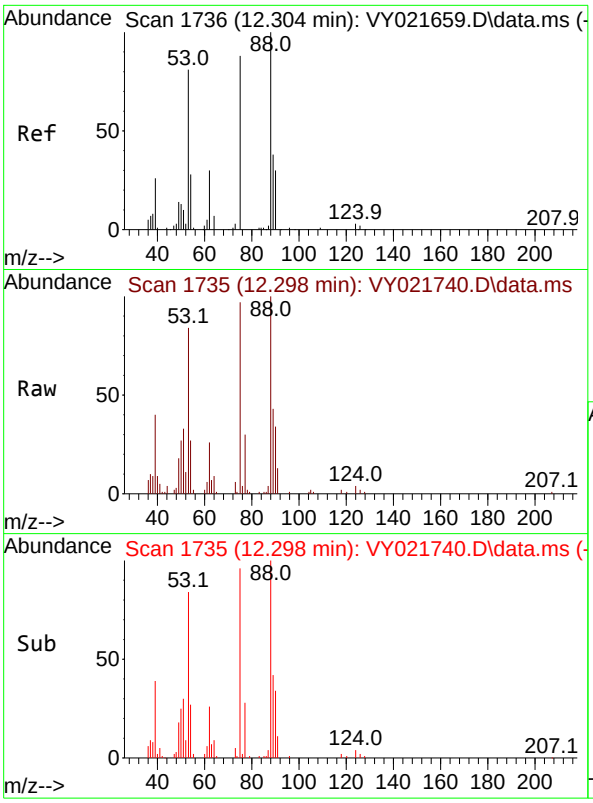


#80
1,3,5-Trimethylbenzene
Concen: 49.066 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:105 Resp: 238020

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.5	73.5

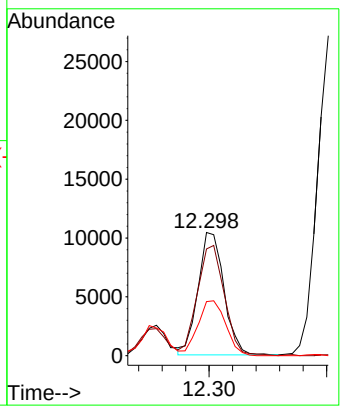




#81
trans-1,4-Dichloro-2-butene
Concen: 46.296 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 75 Resp: 1591

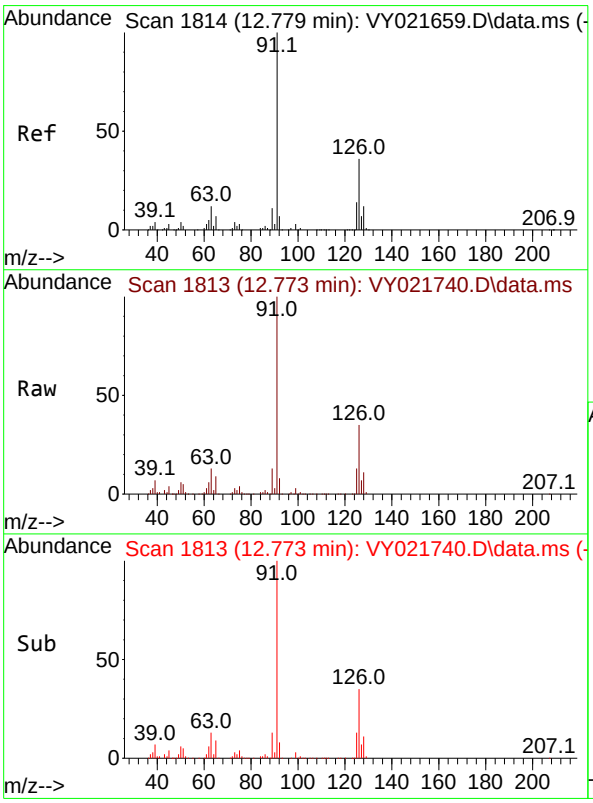
Ion	Ratio	Lower	Upper
75	100		
53	94.6	76.1	114.1
89	48.5	36.2	54.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

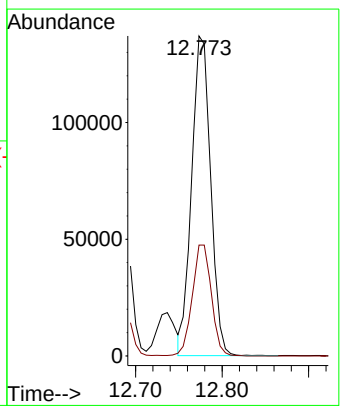
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

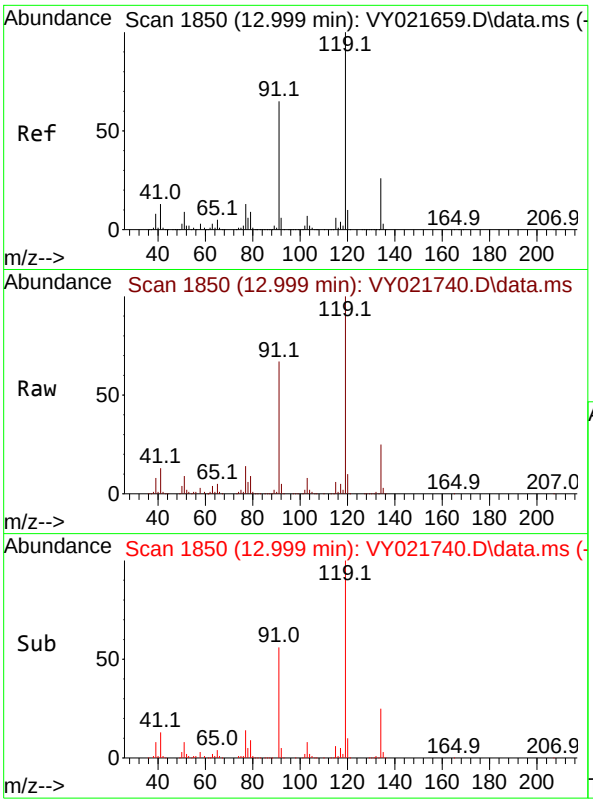


#82
4-Chlorotoluene
Concen: 48.316 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 91 Resp: 208772

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.0	50.9

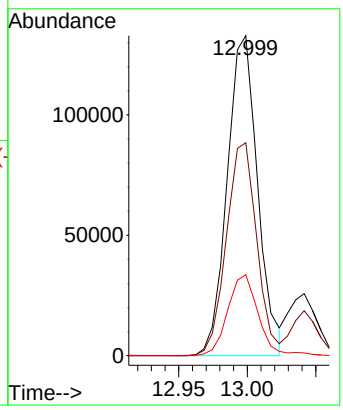




#83
tert-Butylbenzene
Concen: 47.688 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:119 Resp: 20605

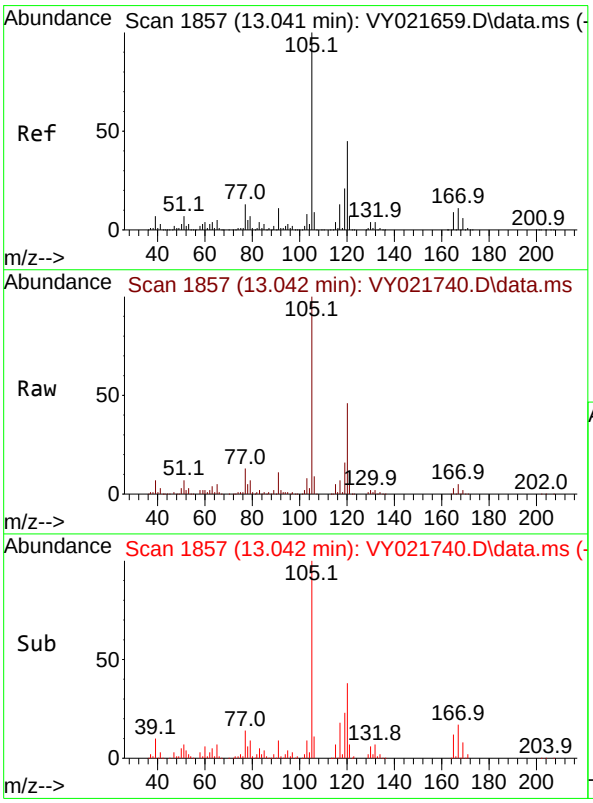
Ion	Ratio	Lower	Upper
119	100		
91	66.5	32.6	97.7
134	25.5	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

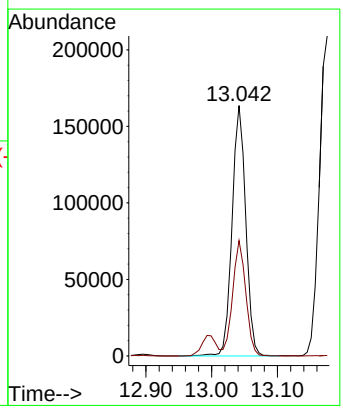
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

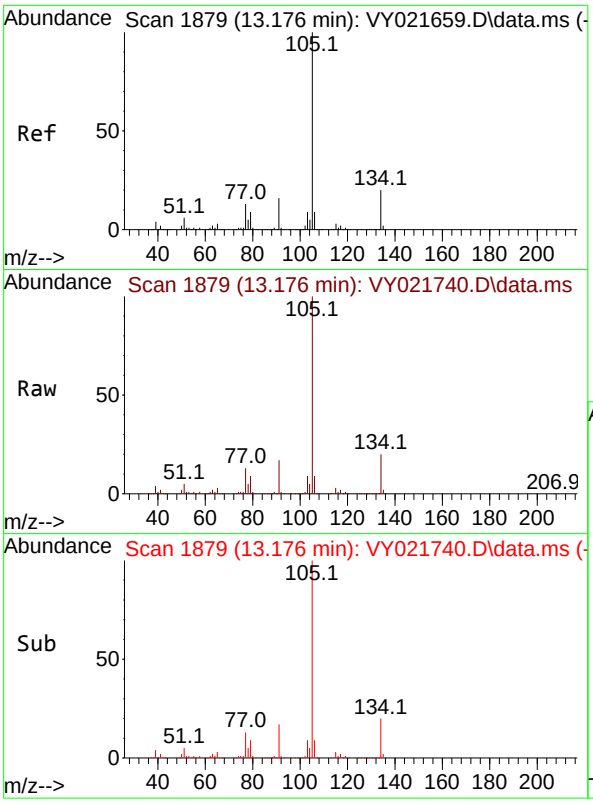


#84
1,2,4-Trimethylbenzene
Concen: 49.402 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:105 Resp: 236860

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.7	68.1

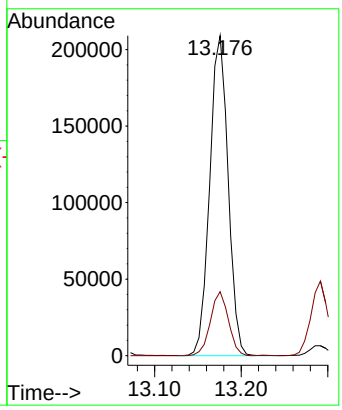




#85
sec-Butylbenzene
Concen: 48.861 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:105 Resp: 30852

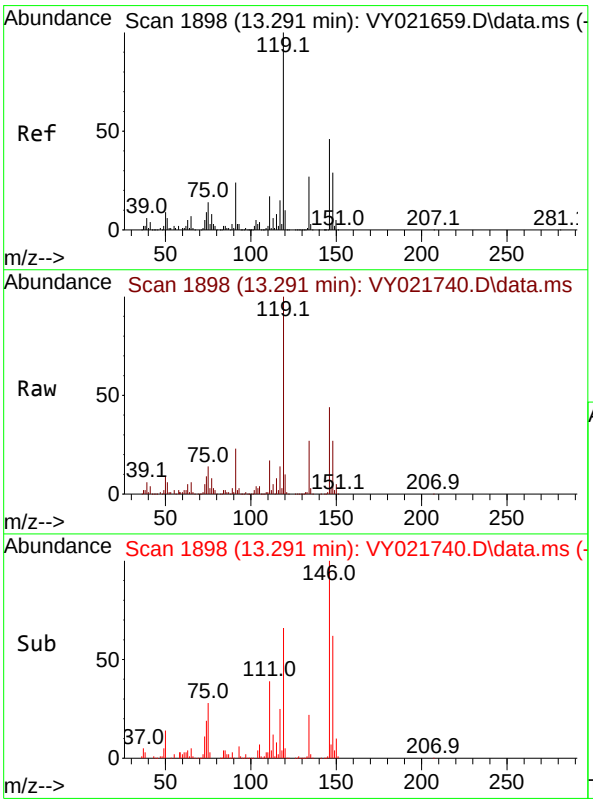
Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

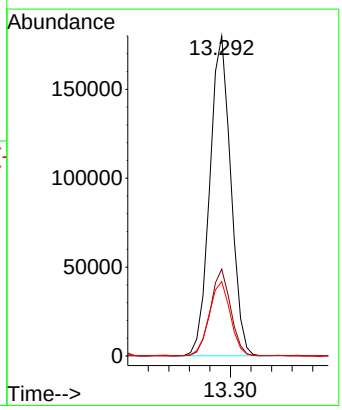
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

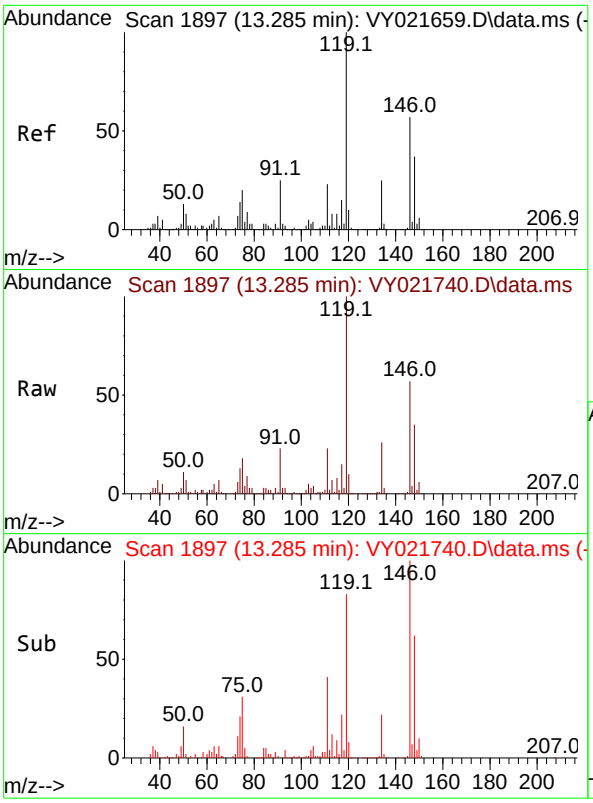


#86
p-Isopropyltoluene
Concen: 48.806 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:119 Resp: 254716

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.5
91	23.5	12.0	36.0

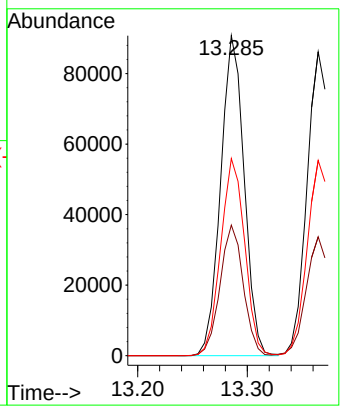




#87
1,3-Dichlorobenzene
Concen: 48.243 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:146 Resp: 13545

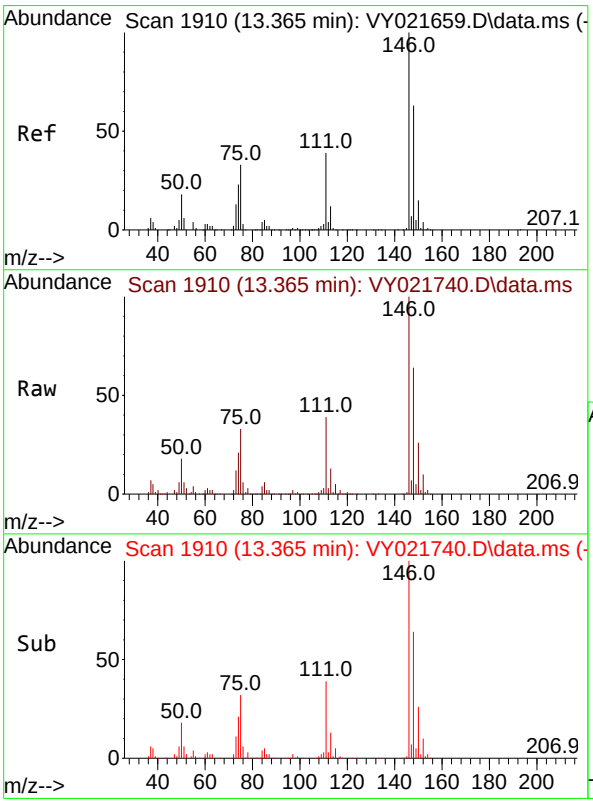
Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.0	60.0
148	62.8	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

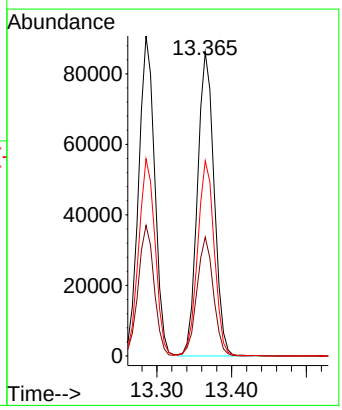
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

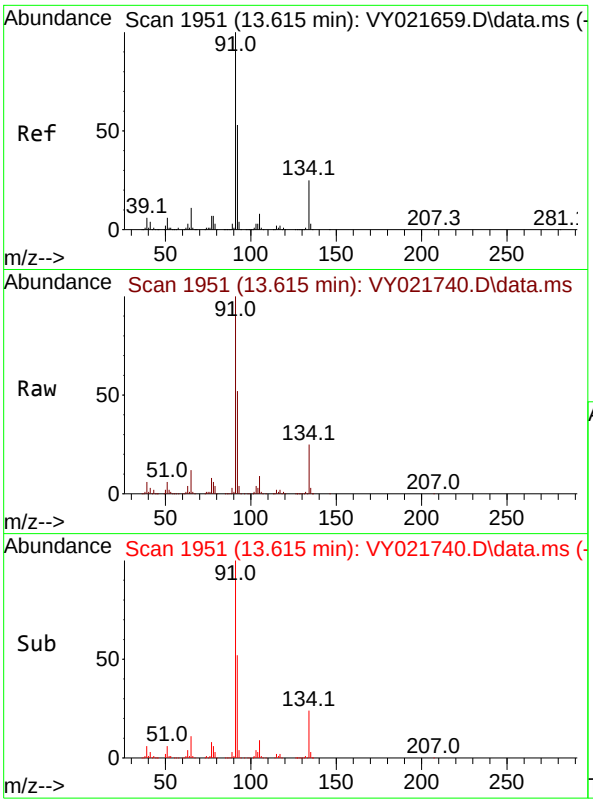


#88
1,4-Dichlorobenzene
Concen: 48.109 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:146 Resp: 133457

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.1	57.1
148	64.2	31.5	94.5





#89
n-Butylbenzene
Concen: 44.754 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

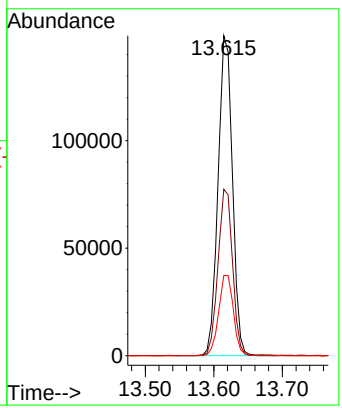
Tgt Ion: 91 Resp: 21600

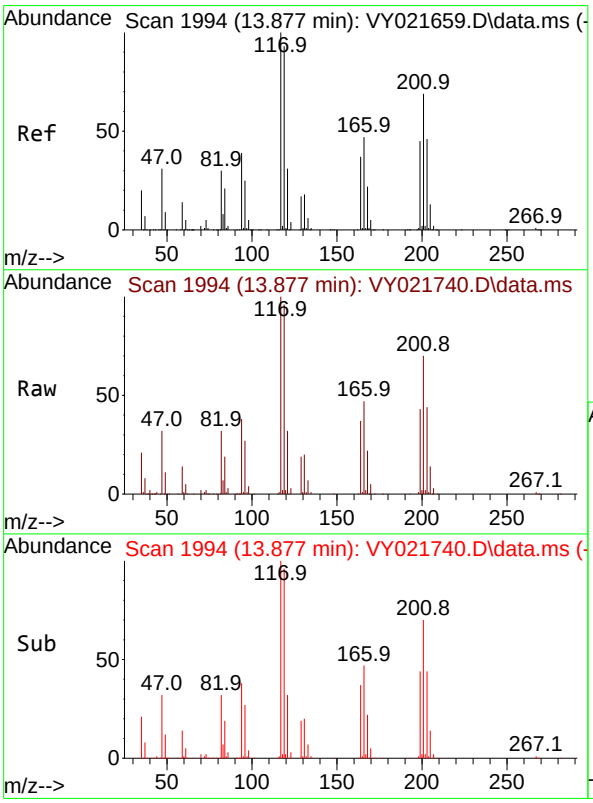
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.4	79.2
134	25.7	12.8	38.4

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

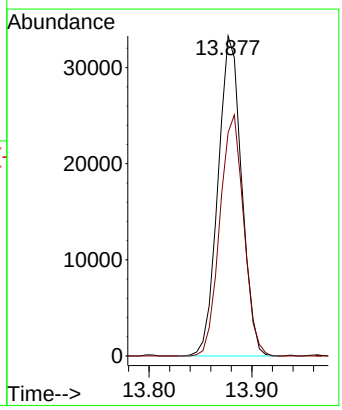


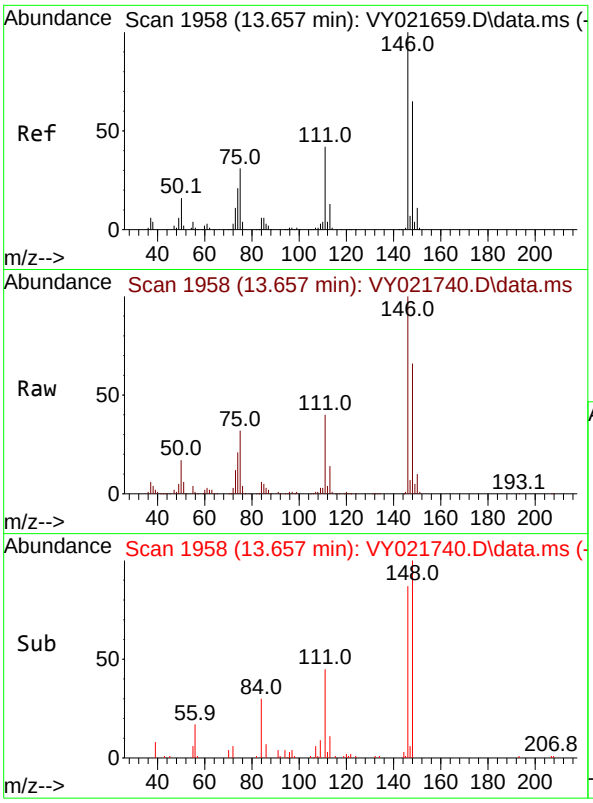


#90
Hexachloroethane
Concen: 46.322 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:117 Resp: 52976

Ion	Ratio	Lower	Upper
117	100		
201	76.3	37.4	112.1

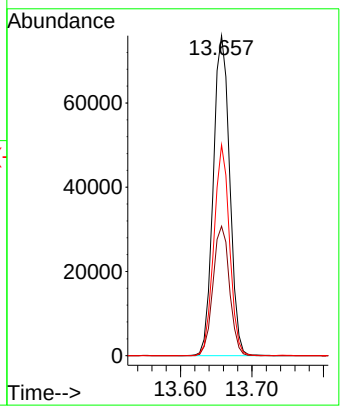




#91
1,2-Dichlorobenzene
Concen: 49.450 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:146 Resp: 12086

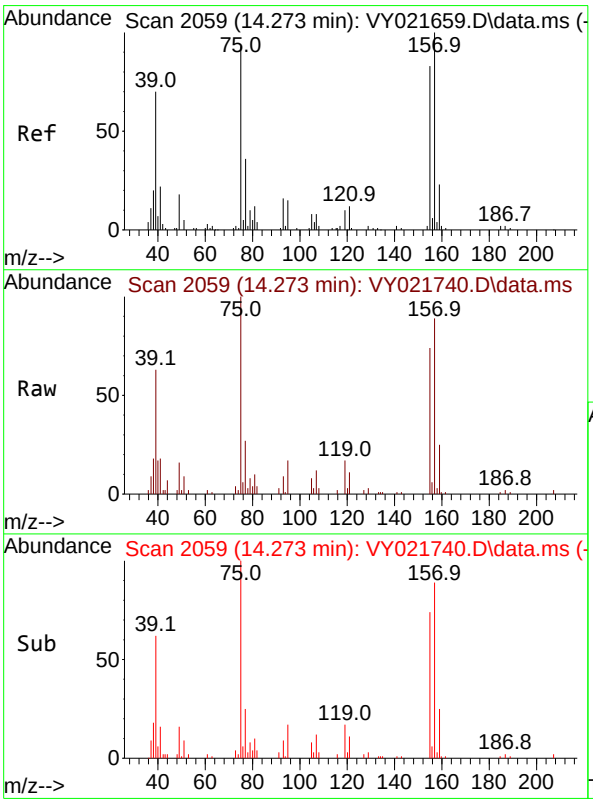
Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.7	62.1
148	62.8	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

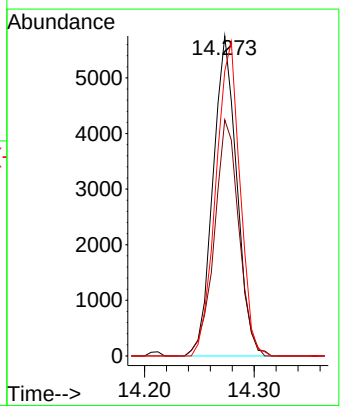
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

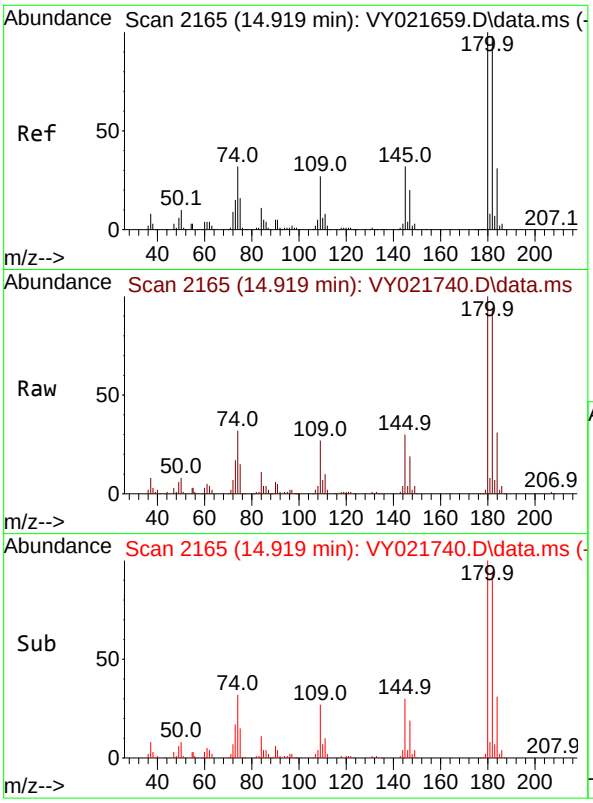


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.322 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion: 75 Resp: 8654

Ion	Ratio	Lower	Upper
75	100		
155	76.0	43.0	128.8
157	99.6	54.0	162.0

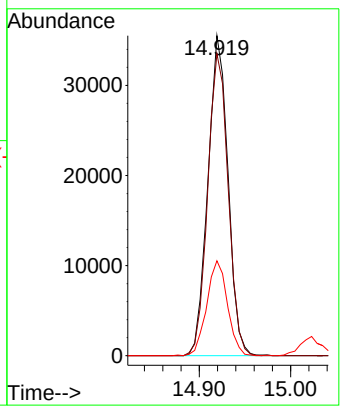




#93
1,2,4-Trichlorobenzene
Concen: 40.936 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:180 Resp: 5425

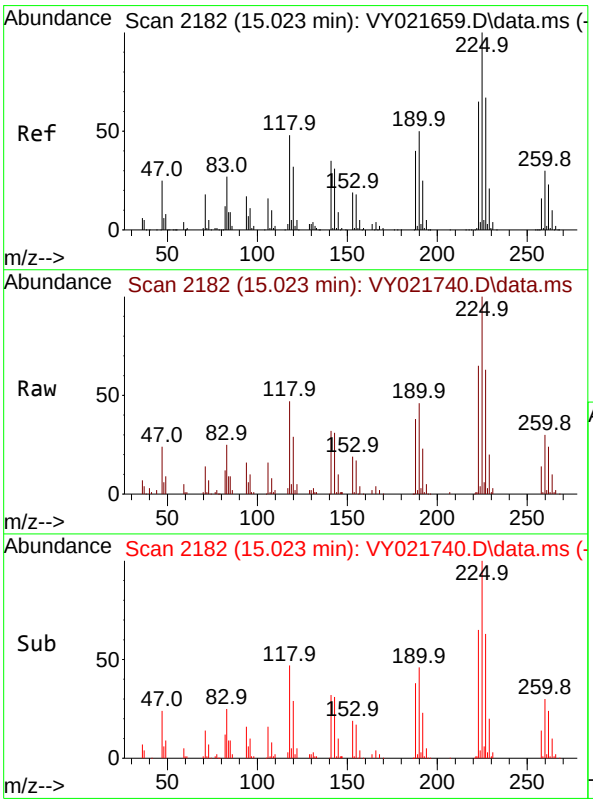
Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.6
145	30.5	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

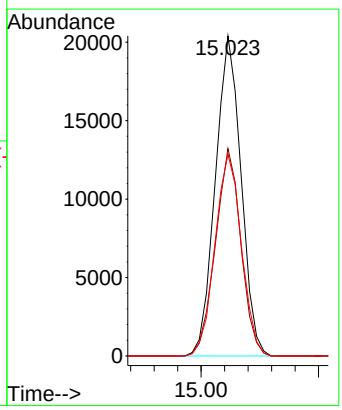
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

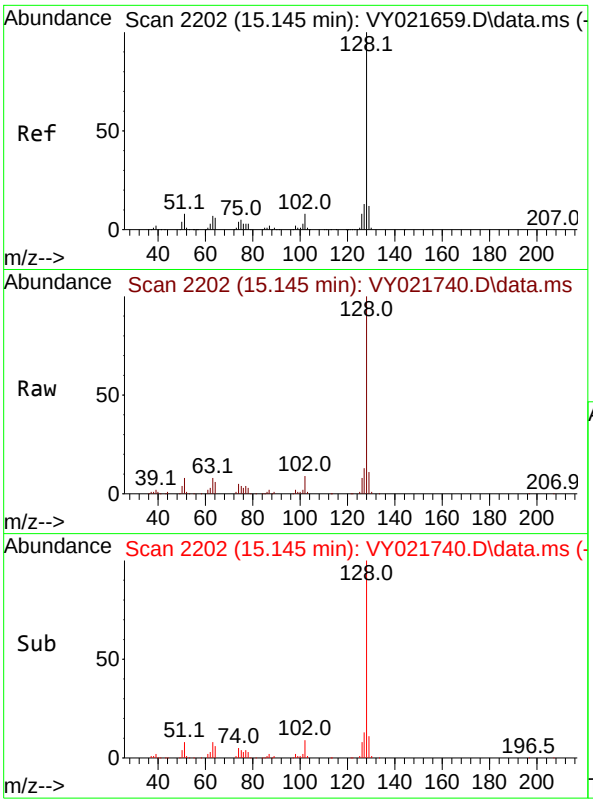


#94
Hexachlorobutadiene
Concen: 37.442 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:225 Resp: 30994

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.9	95.7
227	64.6	32.4	97.0

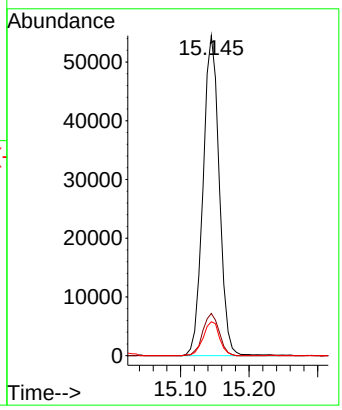




#95
Naphthalene
Concen: 40.808 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:128 Resp: 8965

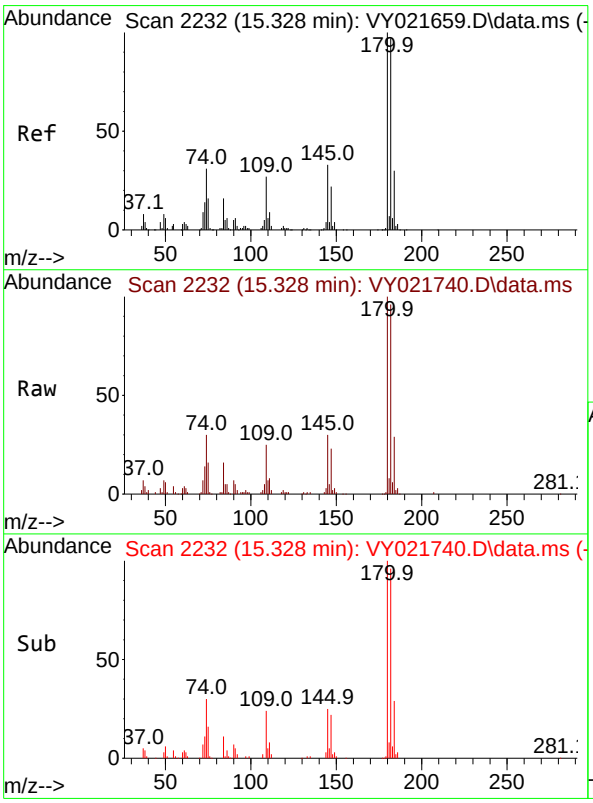
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.8	16.2
129	10.8	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

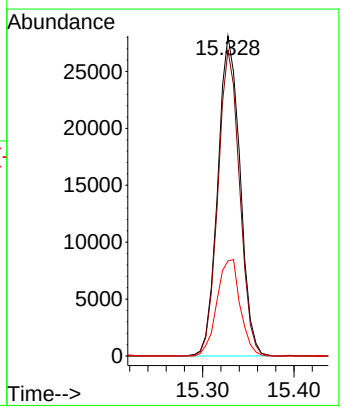
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.060 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021740.D
Acq: 01 Apr 2025 14:42

Tgt Ion:180 Resp: 47540

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.5	142.5
145	31.5	15.9	47.7



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.56 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021741.D	1		04/01/25 15:05	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	68.8		1.40	6.00	ug/Kg
74-87-3	Chloromethane	66.2		1.40	6.00	ug/Kg
75-01-4	Vinyl Chloride	67.6		0.94	6.00	ug/Kg
74-83-9	Bromomethane	63.6		1.30	6.00	ug/Kg
75-00-3	Chloroethane	65.5		1.50	6.00	ug/Kg
75-69-4	Trichlorofluoromethane	67.9		1.40	6.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	68.6		1.30	6.00	ug/Kg
75-35-4	1,1-Dichloroethene	69.4		1.20	6.00	ug/Kg
67-64-1	Acetone	370		5.70	29.9	ug/Kg
75-15-0	Carbon Disulfide	68.2		1.30	6.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	66.3		0.87	6.00	ug/Kg
79-20-9	Methyl Acetate	220	E	1.80	6.00	ug/Kg
75-09-2	Methylene Chloride	85.4		4.20	11.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	70.3		1.00	6.00	ug/Kg
75-34-3	1,1-Dichloroethane	69.4		0.96	6.00	ug/Kg
110-82-7	Cyclohexane	66.6		0.94	6.00	ug/Kg
78-93-3	2-Butanone	330		7.80	29.9	ug/Kg
56-23-5	Carbon Tetrachloride	61.6		1.20	6.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	70.1		0.90	6.00	ug/Kg
74-97-5	Bromochloromethane	64.6		1.40	6.00	ug/Kg
67-66-3	Chloroform	69.7		1.00	6.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	69.4		1.10	6.00	ug/Kg
108-87-2	Methylcyclohexane	61.6		1.10	6.00	ug/Kg
71-43-2	Benzene	60.3		0.94	6.00	ug/Kg
107-06-2	1,2-Dichloroethane	58.9		0.94	6.00	ug/Kg
79-01-6	Trichloroethene	62.2		0.97	6.00	ug/Kg
78-87-5	1,2-Dichloropropane	61.2		1.10	6.00	ug/Kg
75-27-4	Bromodichloromethane	61.0		0.93	6.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	280		4.30	29.9	ug/Kg
108-88-3	Toluene	61.6		0.93	6.00	ug/Kg

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.56 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021741.D	1		04/01/25 15:05	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	60.2		0.78	6.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	60.4		0.74	6.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	59.4		1.10	6.00	ug/Kg
591-78-6	2-Hexanone	270		4.40	29.9	ug/Kg
124-48-1	Dibromochloromethane	60.9		1.00	6.00	ug/Kg
106-93-4	1,2-Dibromoethane	59.9		1.10	6.00	ug/Kg
127-18-4	Tetrachloroethene	74.7		1.30	6.00	ug/Kg
108-90-7	Chlorobenzene	60.4		1.10	6.00	ug/Kg
100-41-4	Ethyl Benzene	62.3		0.80	6.00	ug/Kg
179601-23-1	m/p-Xylenes	120		1.50	11.9	ug/Kg
95-47-6	o-Xylene	62.9		0.98	6.00	ug/Kg
100-42-5	Styrene	63.5		0.85	6.00	ug/Kg
75-25-2	Bromoform	59.8		1.00	6.00	ug/Kg
98-82-8	Isopropylbenzene	61.7		0.93	6.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	55.0		1.40	6.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	59.2		2.00	6.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	58.6		1.90	6.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	59.2		1.70	6.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	55.2		2.20	6.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	50.7		3.50	6.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	50.3		3.80	6.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	47.2		74 - 123	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	194000	7.707			
540-36-3	1,4-Difluorobenzene	349000	8.616			
3114-55-4	Chlorobenzene-d5	308000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.347			

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.8
Sample Wt/Vol:	4.56 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021741.D	1		04/01/25 15:05	VY040125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021741.D
Acq On : 01 Apr 2025 15:05
Operator : SY/MD
Sample : Q1664-03MSD
Misc : 4.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 03:23:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	194285	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	349081	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	308067	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	151305	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	112639	53.510	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.020%			
35) Dibromofluoromethane	7.634	113	109405	48.315	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.620%			
50) Toluene-d8	10.103	98	406751	47.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.440%			
62) 4-Bromofluorobenzene	12.402	95	137827	47.301	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	116035	57.622	ug/l	99
3) Chloromethane	2.068	50	156933	55.423	ug/l	98
4) Vinyl Chloride	2.202	62	181195	56.584	ug/l	97
5) Bromomethane	2.592	94	116364	53.279	ug/l	96
6) Chloroethane	2.733	64	114828	54.800	ug/l	98
7) Trichlorofluoromethane	3.056	101	233321	56.878	ug/l	96
8) Diethyl Ether	3.452	74	60435	54.175	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	124341	57.471	ug/l	99
10) Methyl Iodide	4.001	142	144734	60.978	ug/l	100
11) Tert butyl alcohol	4.854	59	35480	259.496	ug/l #	82
12) 1,1-Dichloroethene	3.787	96	118345	58.073	ug/l	96
13) Acrolein	3.647	56	4482	17.953	ug/l	95
14) Allyl chloride	4.385	41	174782	53.792	ug/l	100
15) Acrylonitrile	5.055	53	120818	259.386	ug/l	100
16) Acetone	3.860	43	134290	311.711	ug/l	96
17) Carbon Disulfide	4.104	76	383214	57.093	ug/l	99
18) Methyl Acetate	4.379	43	199199	186.563	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	281598	55.503	ug/l	99
20) Methylene Chloride	4.610	84	147141	71.458	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	132020	58.839	ug/l	97
22) Diisopropyl ether	6.019	45	373043	54.731	ug/l	94
23) Vinyl Acetate	5.958	43	78374	19.656	ug/l	100
24) 1,1-Dichloroethane	5.915	63	236951	58.139	ug/l	99
25) 2-Butanone	6.890	43	170572	277.201	ug/l	100
26) 2,2-Dichloropropane	6.884	77	196673	54.249	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	148167	58.720	ug/l	98
28) Bromochloromethane	7.244	49	92982	54.096	ug/l	99
29) Tetrahydrofuran	7.262	42	104216	263.155	ug/l	98
30) Chloroform	7.415	83	247410	58.364	ug/l	99
31) Cyclohexane	7.701	56	207124	55.750	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	222652	58.114	ug/l	99
36) 1,1-Dichloropropene	7.835	75	177196	51.375	ug/l	99
37) Ethyl Acetate	6.982	43	31137	19.129	ug/l #	80
38) Carbon Tetrachloride	7.817	117	203864	51.606	ug/l	99
39) Methylcyclohexane	9.110	83	212447	51.561	ug/l	98
40) Benzene	8.079	78	521100	50.449	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021741.D
Acq On : 01 Apr 2025 15:05
Operator : SY/MD
Sample : Q1664-03MSD
Misc : 4.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 03:23:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	37903m	43.846	ug/l		
42) 1,2-Dichloroethane	8.152	62	143535	49.292	ug/l		100
43) Isopropyl Acetate	8.195	43	86642	28.087	ug/l		98
44) Trichloroethene	8.866	130	137034	52.069	ug/l		99
45) 1,2-Dichloropropane	9.140	63	125368	51.276	ug/l		99
46) Dibromomethane	9.231	93	70046	49.710	ug/l		98
47) Bromodichloromethane	9.420	83	186422	51.058	ug/l		98
48) Methyl methacrylate	9.219	41	87268	61.640	ug/l		97
49) 1,4-Dioxane	9.225	88	14439	956.541	ug/l		92
51) 4-Methyl-2-Pentanone	9.993	43	376542	234.563	ug/l		100
52) Toluene	10.170	92	332355	51.572	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	163499	50.414	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	193616	50.606	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	90185	49.734	ug/l		98
56) Ethyl methacrylate	10.439	69	73999	31.959	ug/l		96
57) 1,3-Dichloropropane	10.713	76	158074	50.475	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	287965	254.940	ug/l		99
59) 2-Hexanone	10.762	43	239228	223.766	ug/l		100
60) Dibromochloromethane	10.908	129	126183	50.967	ug/l		99
61) 1,2-Dibromoethane	11.012	107	85276	50.131	ug/l		99
64) Tetrachloroethene	10.646	164	175448	62.531	ug/l		98
65) Chlorobenzene	11.438	112	356866	50.534	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.512	131	129041	51.502	ug/l		99
67) Ethyl Benzene	11.518	91	631608	52.157	ug/l		100
68) m/p-Xylenes	11.627	106	482187	103.984	ug/l		99
69) o-Xylene	11.950	106	225429	52.665	ug/l		99
70) Styrene	11.969	104	379194	53.132	ug/l		99
71) Bromoform	12.133	173	71608	50.103	ug/l	#	99
73) Isopropylbenzene	12.255	105	580448	51.650	ug/l		100
74) N-amyl acetate	12.066	43	11036	4.184	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.505	83	92979	46.018	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	69309m	46.211	ug/l		
77) Bromobenzene	12.530	156	140081	51.916	ug/l		97
78) n-propylbenzene	12.591	91	700397	51.840	ug/l		99
79) 2-Chlorotoluene	12.676	91	404344	51.527	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	472320	51.425	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	30305	46.557	ug/l		98
82) 4-Chlorotoluene	12.773	91	416429	50.901	ug/l		100
83) tert-Butylbenzene	12.999	119	411026	50.243	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	464906	51.214	ug/l		99
85) sec-Butylbenzene	13.176	105	587776	49.164	ug/l		100
86) p-Isopropyltoluene	13.292	119	481125	48.691	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	263656	49.596	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	257857	49.095	ug/l		99
89) n-Butylbenzene	13.615	91	400506	43.827	ug/l		100
90) Hexachloroethane	13.877	117	100941	46.617	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	229212	49.531	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	14469	46.204	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	106551	42.458	ug/l		98
94) Hexachlorobutadiene	15.023	225	46570	29.714	ug/l		98
95) Naphthalene	15.145	128	182405	43.851	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	90048	42.078	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021741.D
Acq On : 01 Apr 2025 15:05
Operator : SY/MD
Sample : Q1664-03MSD
Misc : 4.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 03:23:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

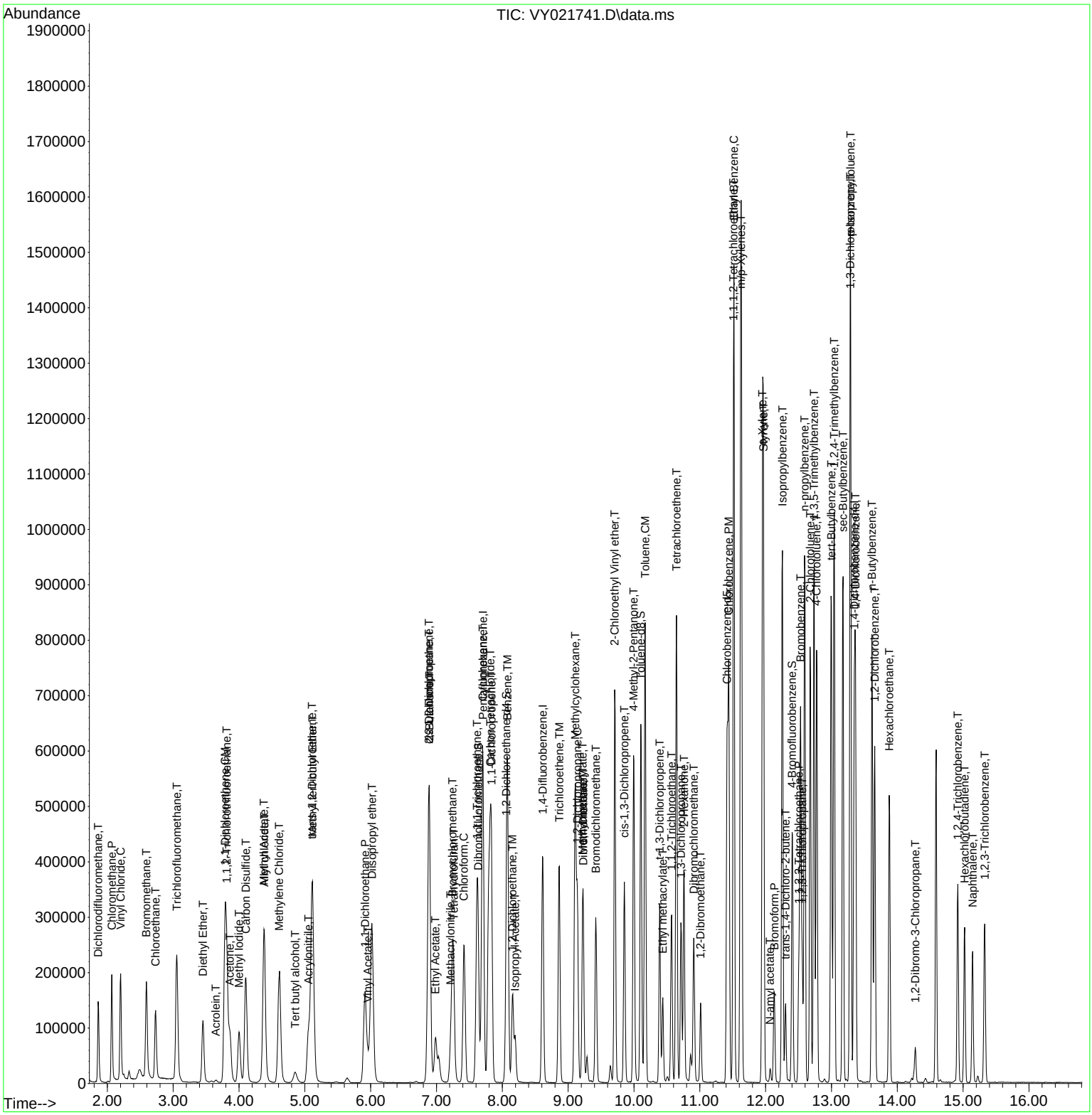
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040125\
Data File : VY021741.D
Acq On : 01 Apr 2025 15:05
Operator : SY/MD
Sample : Q1664-03MSD
Misc : 4.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

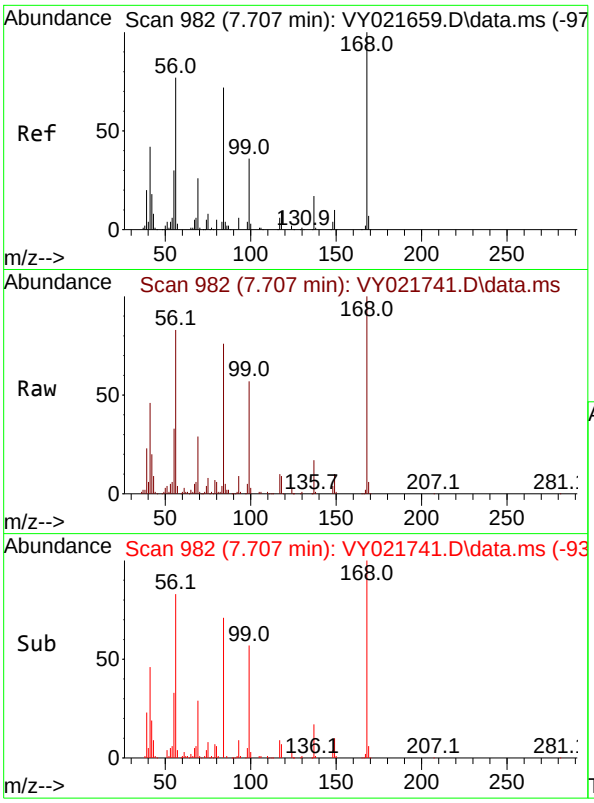
Quant Time: Apr 02 03:23:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

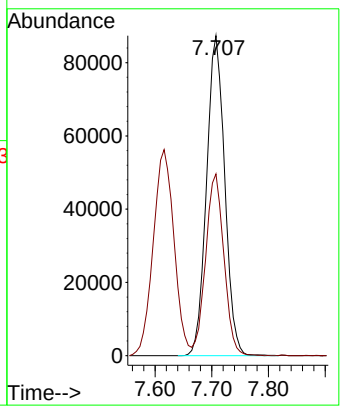
Tgt Ion:168 Resp: 19428

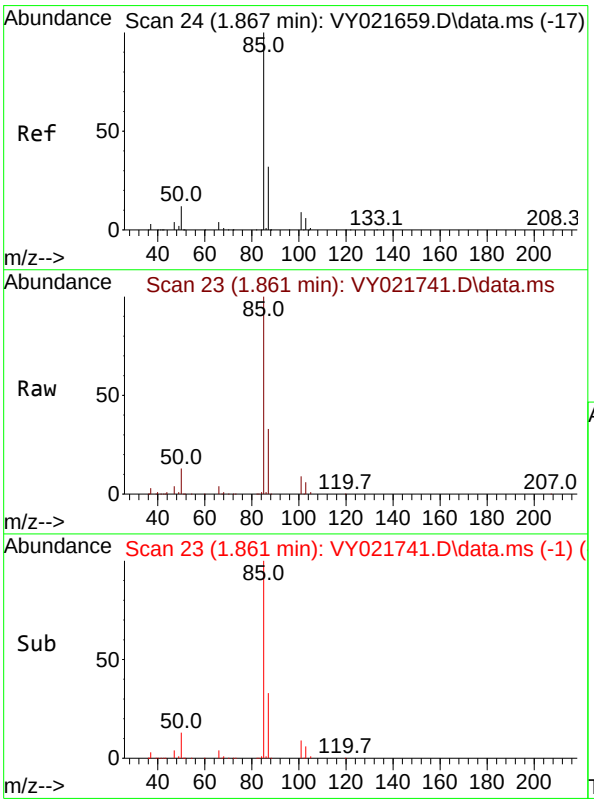
Ion	Ratio	Lower	Upper
168	100		
99	56.8	46.7	70.1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

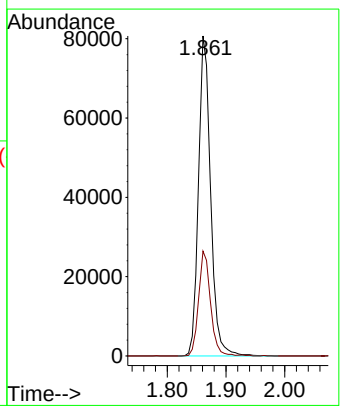


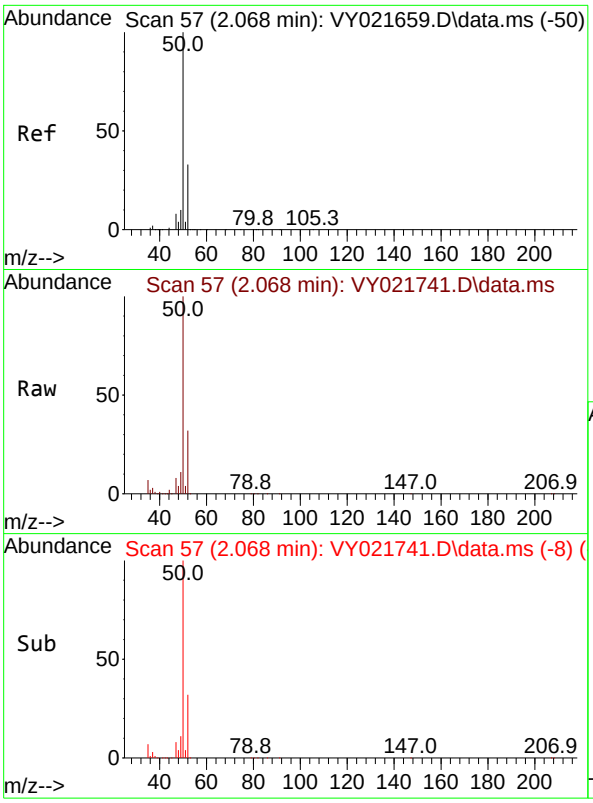


#2
Dichlorodifluoromethane
Concen: 57.622 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 85 Resp: 116035

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.2	48.6

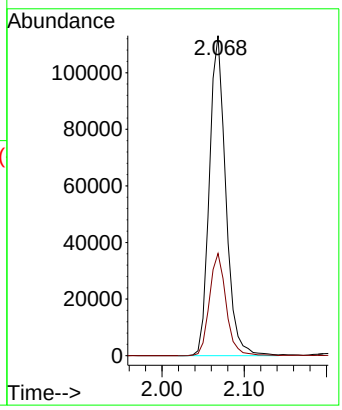




#3
Chloromethane
Concen: 55.423 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 50 Resp: 15693

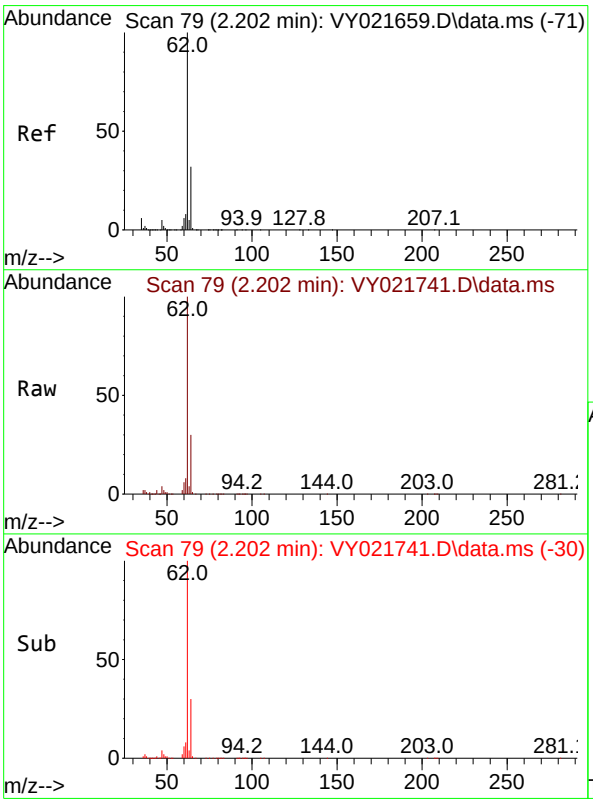
Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

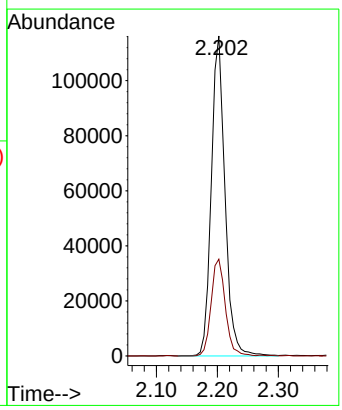
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

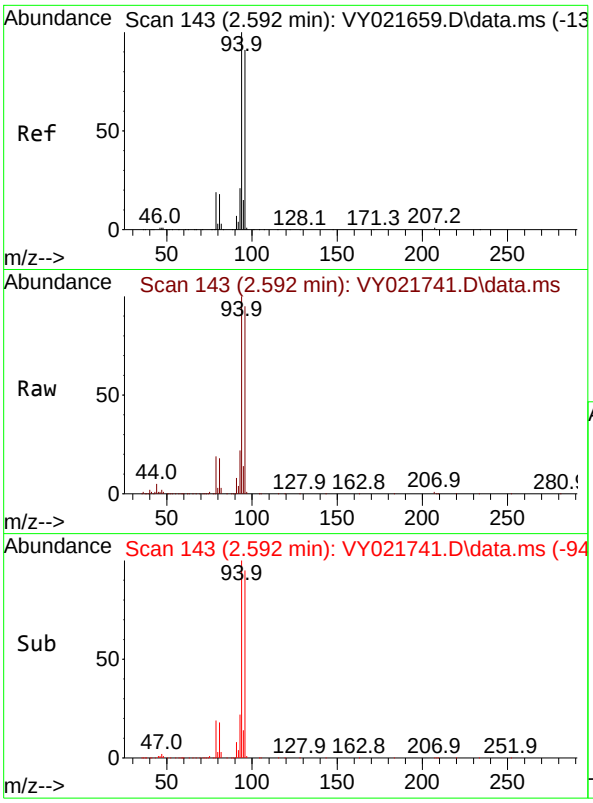


#4
Vinyl Chloride
Concen: 56.584 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 62 Resp: 181195

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.5	38.3

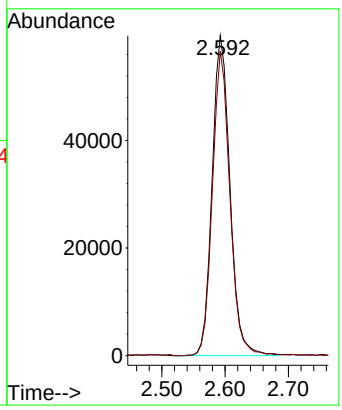




#5
Bromomethane
Concen: 53.279 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 94 Resp: 11636

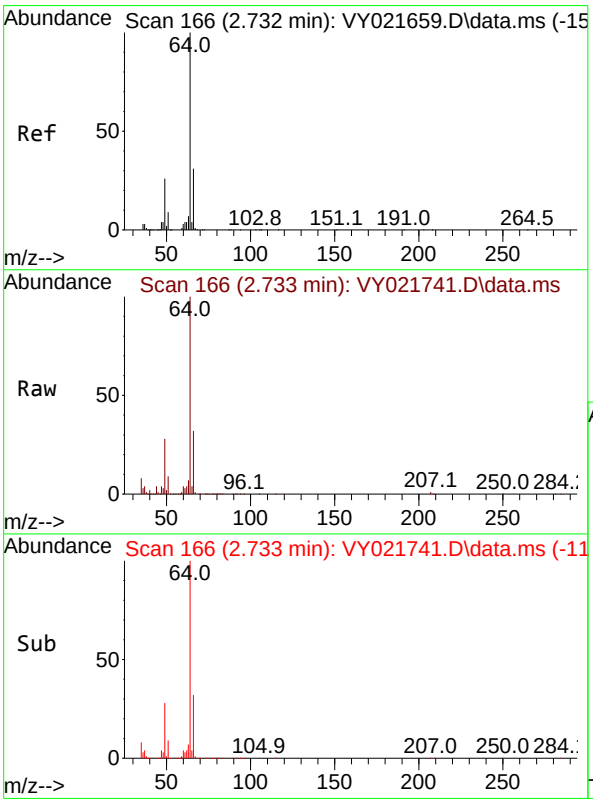
Ion	Ratio	Lower	Upper
94	100		
96	95.2	72.8	109.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

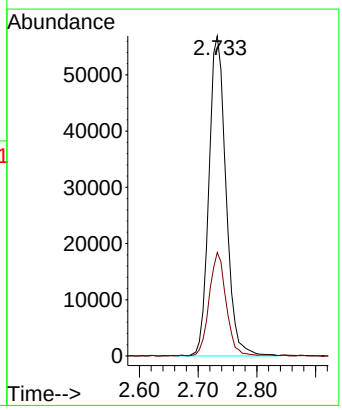
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

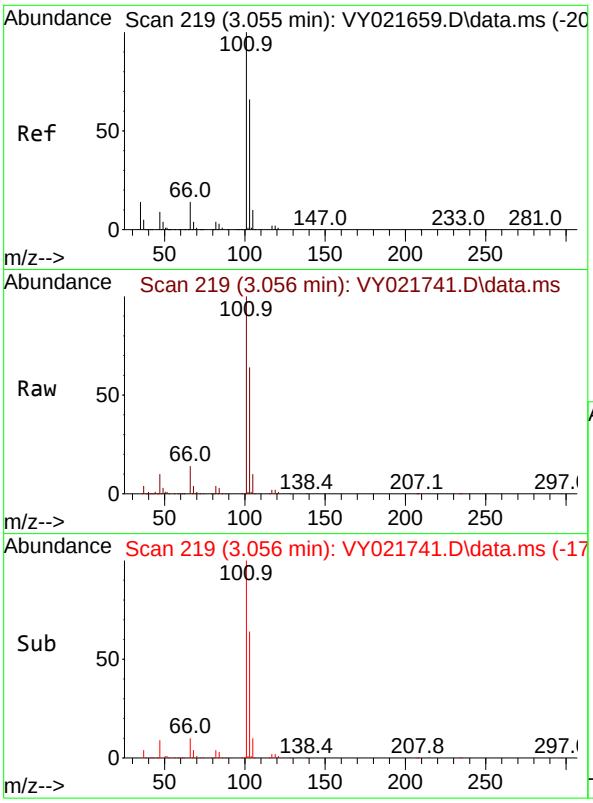


#6
Chloroethane
Concen: 54.800 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 64 Resp: 114828

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.9	37.3

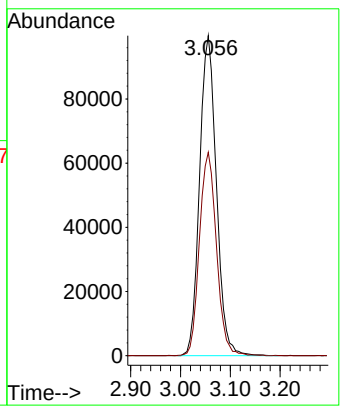




#7
Trichlorofluoromethane
Concen: 56.878 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:101 Resp: 23332

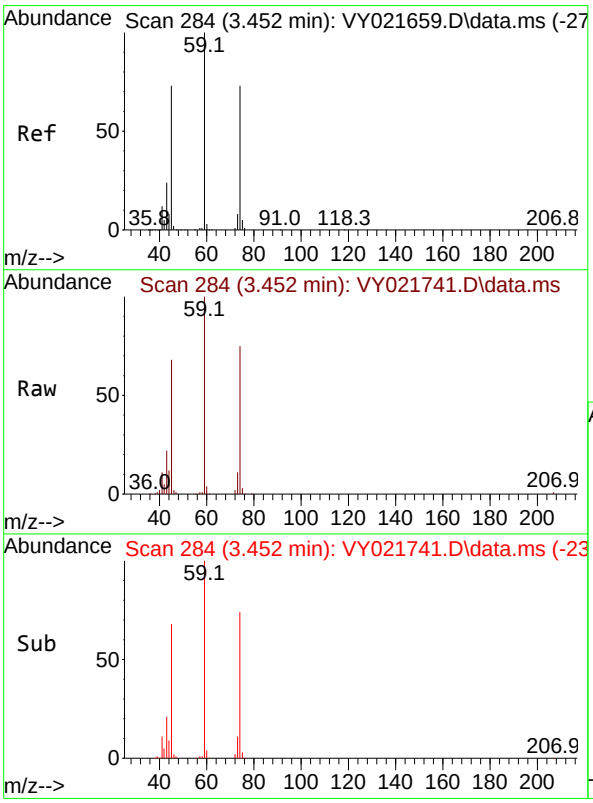
Ion	Ratio	Lower	Upper
101	100		
103	63.5	53.1	79.7



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

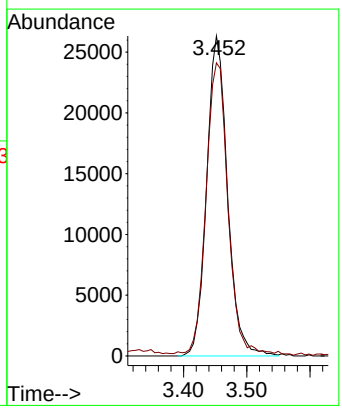
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

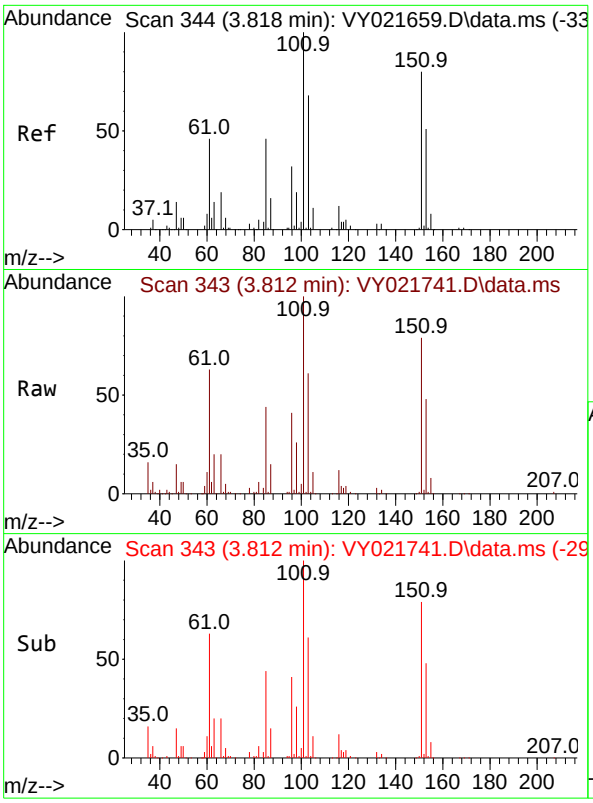


#8
Diethyl Ether
Concen: 54.175 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 74 Resp: 60435

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.471 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

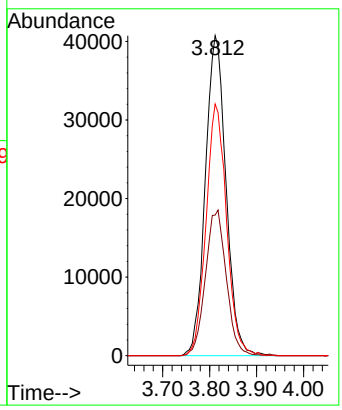
Tgt Ion:101 Resp: 12434

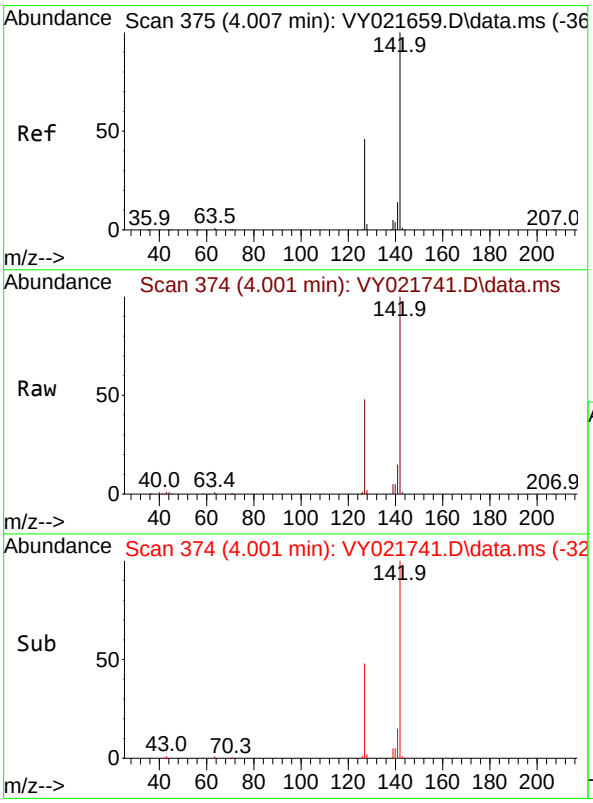
Ion	Ratio	Lower	Upper
101	100		
85	46.0	36.3	54.5
151	78.1	61.3	91.9

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

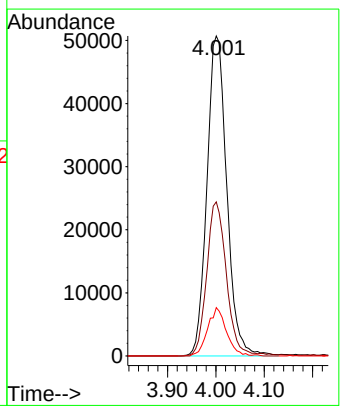


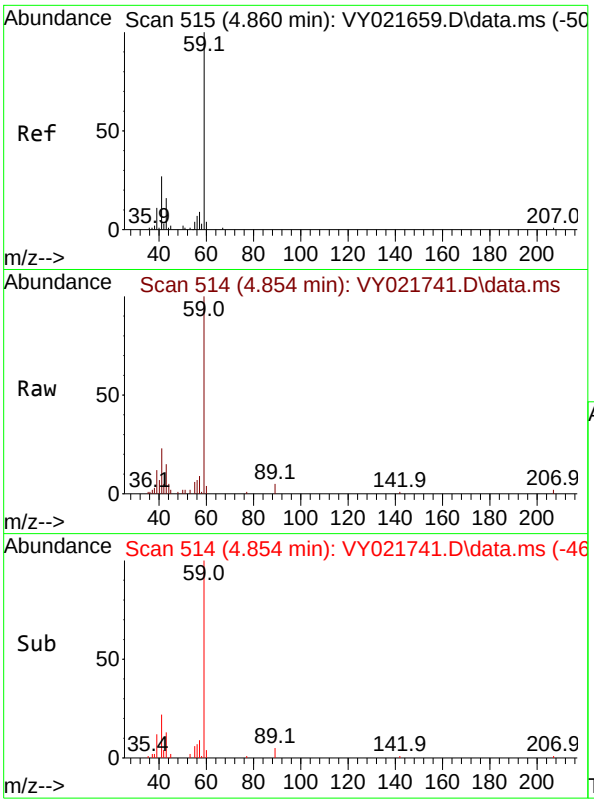


#10
Methyl Iodide
Concen: 60.978 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:142 Resp: 144734

Ion	Ratio	Lower	Upper
142	100		
127	48.2	38.7	58.1
141	14.2	11.5	17.3





#11
Tert butyl alcohol
Concen: 259.496 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

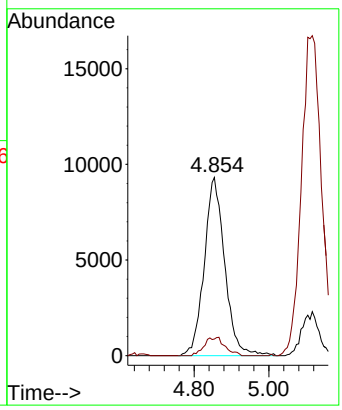
Tgt Ion: 59 Resp: 3548

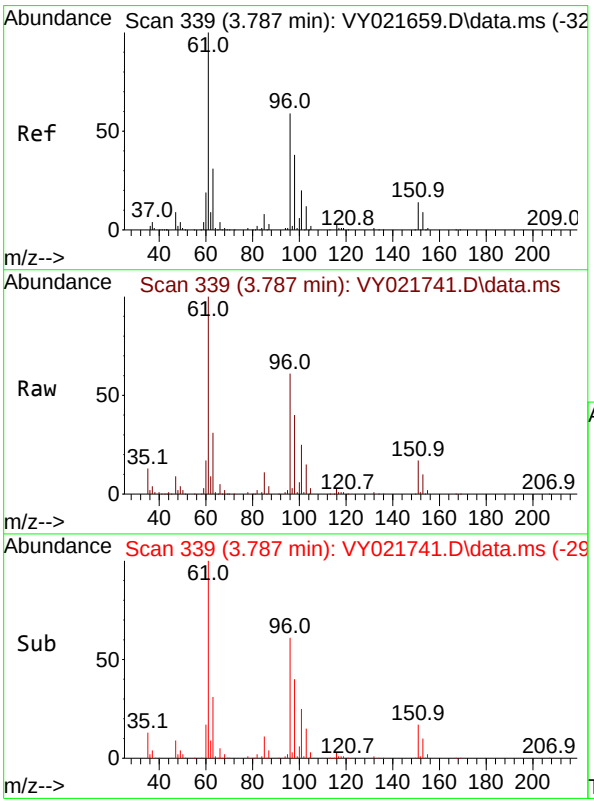
Ion	Ratio	Lower	Upper
59	100		
57	4.5	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

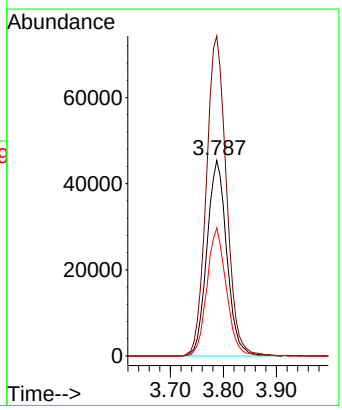


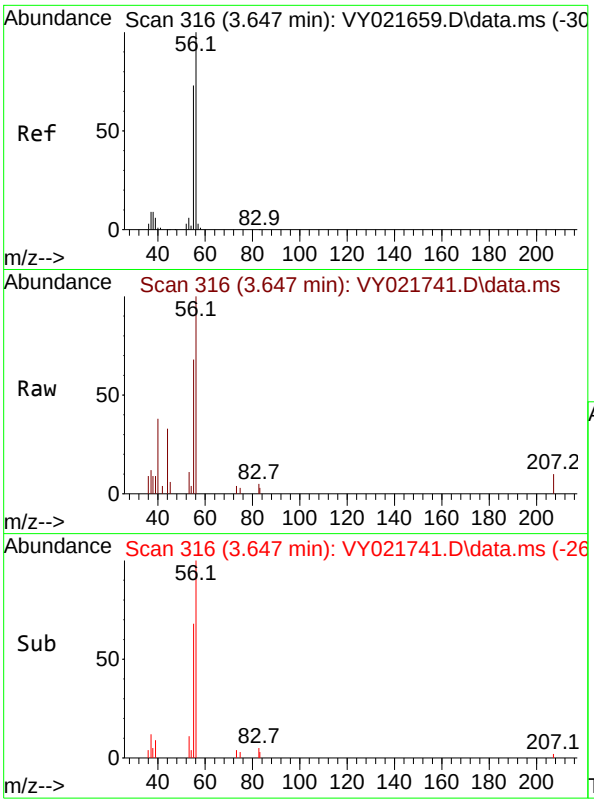


#12
1,1-Dichloroethene
Concen: 58.073 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 96 Resp: 118345

Ion	Ratio	Lower	Upper
96	100		
61	163.6	136.6	204.8
98	65.4	52.3	78.5

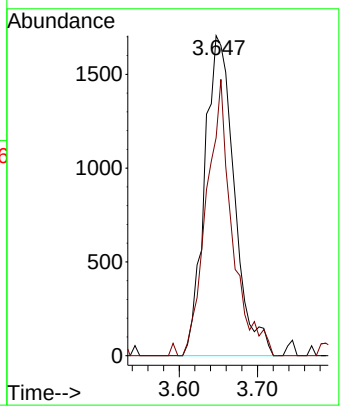




#13
Acrolein
Concen: 17.953 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 56 Resp: 448

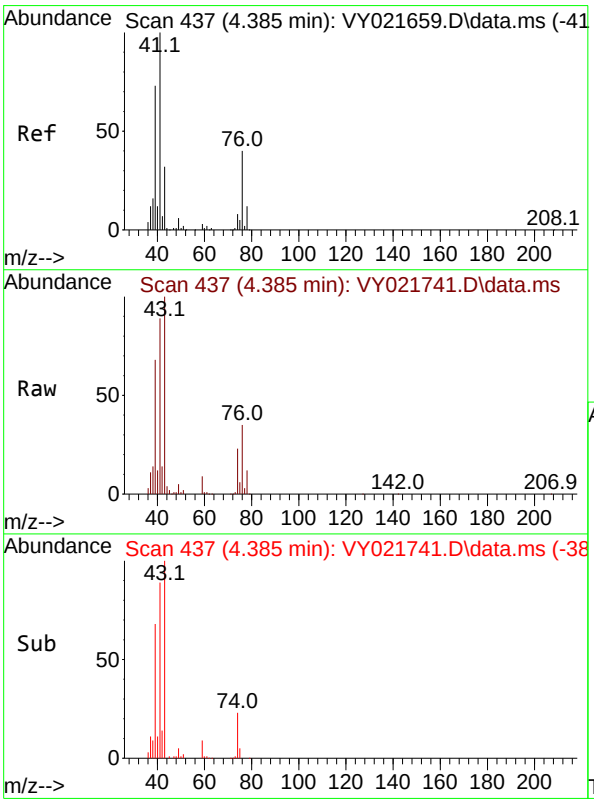
Ion	Ratio	Lower	Upper
56	100		
55	75.1	56.6	85.0



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

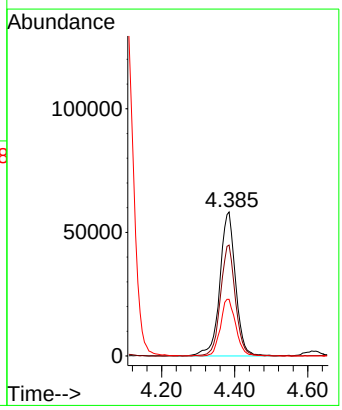
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

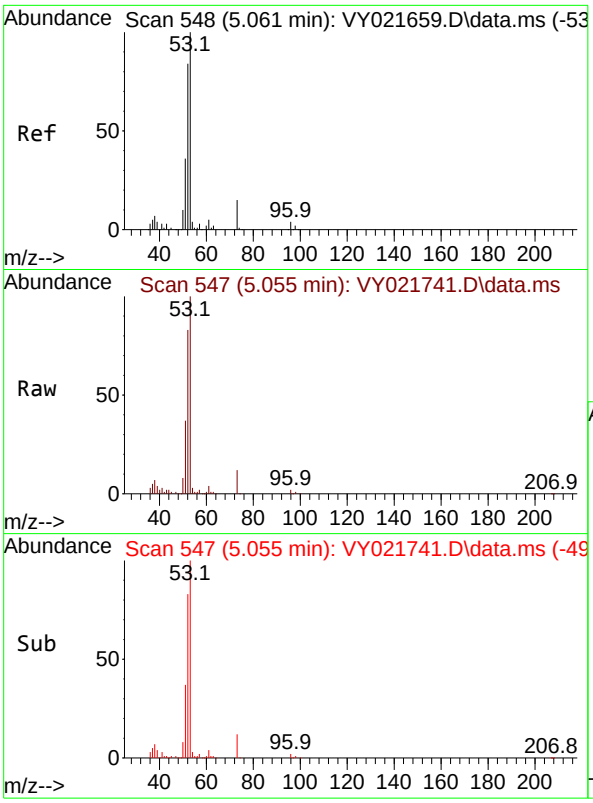


#14
Allyl chloride
Concen: 53.792 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 41 Resp: 174782

Ion	Ratio	Lower	Upper
41	100		
39	73.2	58.6	88.0
76	38.2	30.3	45.5





#15
Acrylonitrile
Concen: 259.386 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

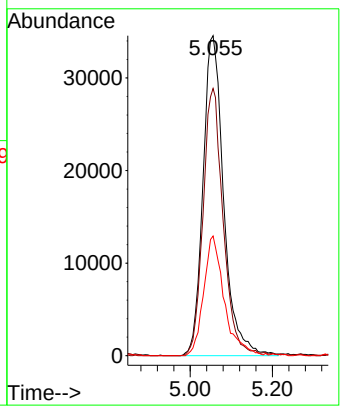
Tgt Ion: 53 Resp: 12081

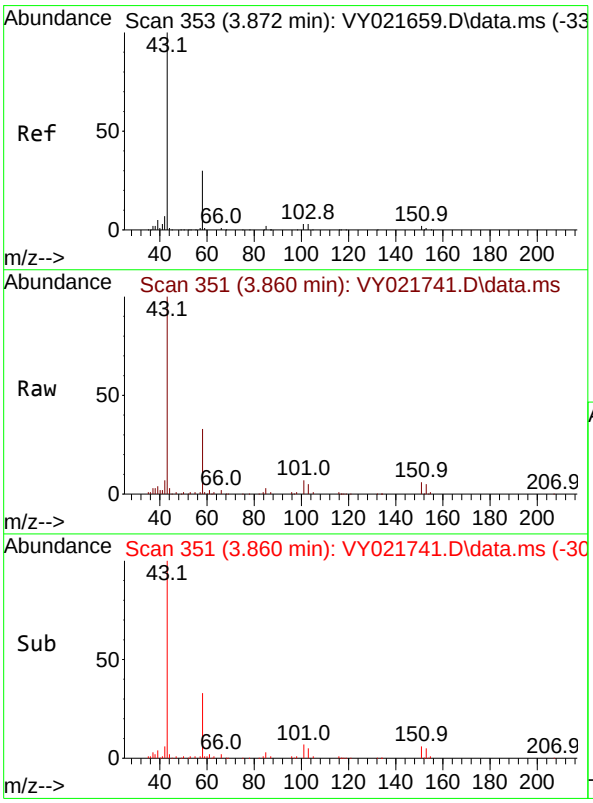
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.9	97.3
51	37.2	30.2	45.2

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

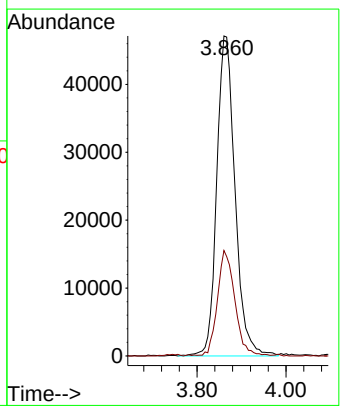


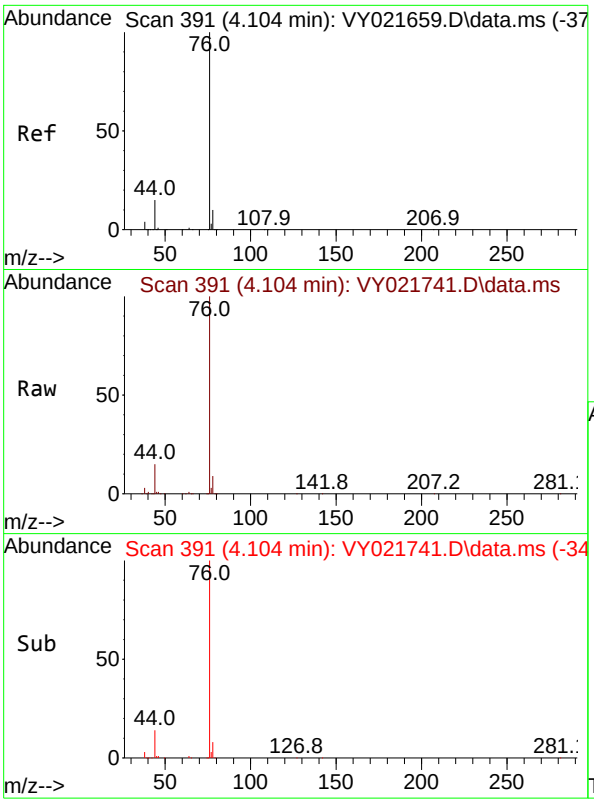


#16
Acetone
Concen: 311.711 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.012 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 43 Resp: 134290

Ion	Ratio	Lower	Upper
43	100		
58	32.5	24.2	36.4

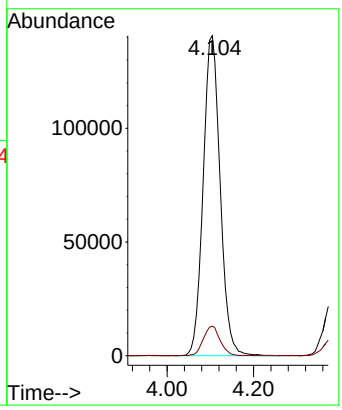




#17
Carbon Disulfide
Concen: 57.093 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 76 Resp: 38321

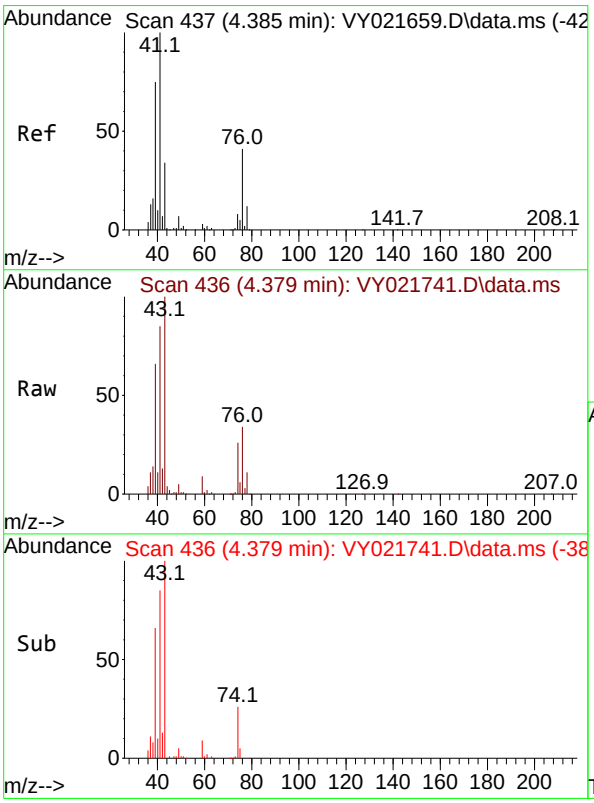
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

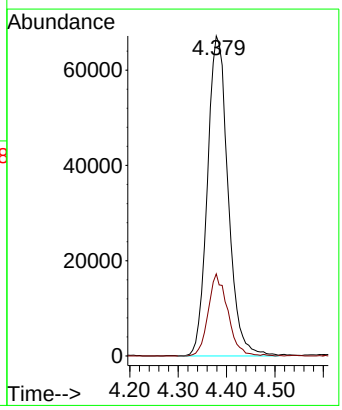
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

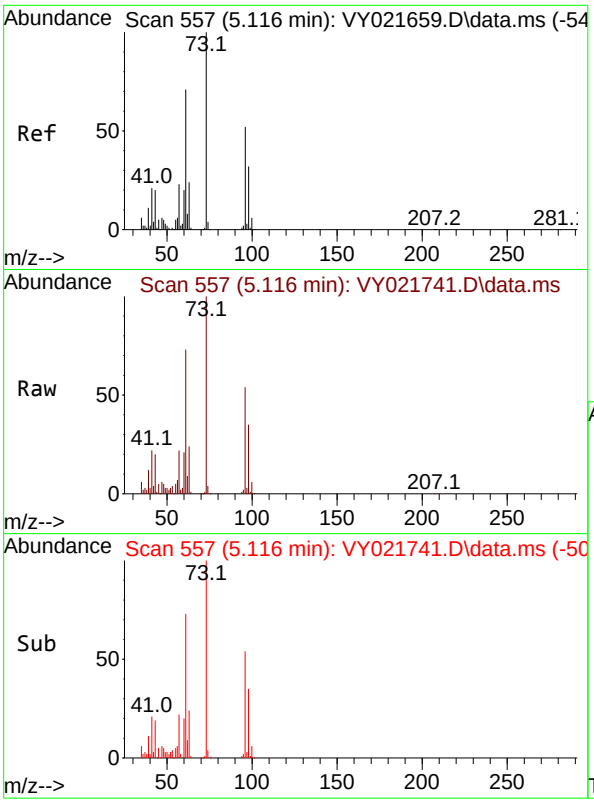


#18
Methyl Acetate
Concen: 186.563 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 43 Resp: 199199

Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.1	28.7

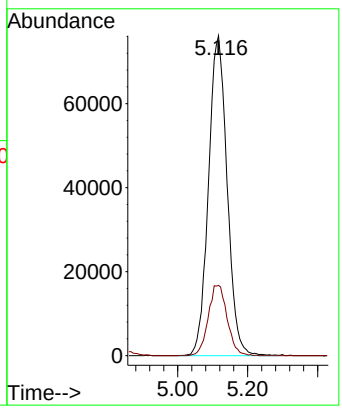




#19
Methyl tert-butyl Ether
Concen: 55.503 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 73 Resp: 28159

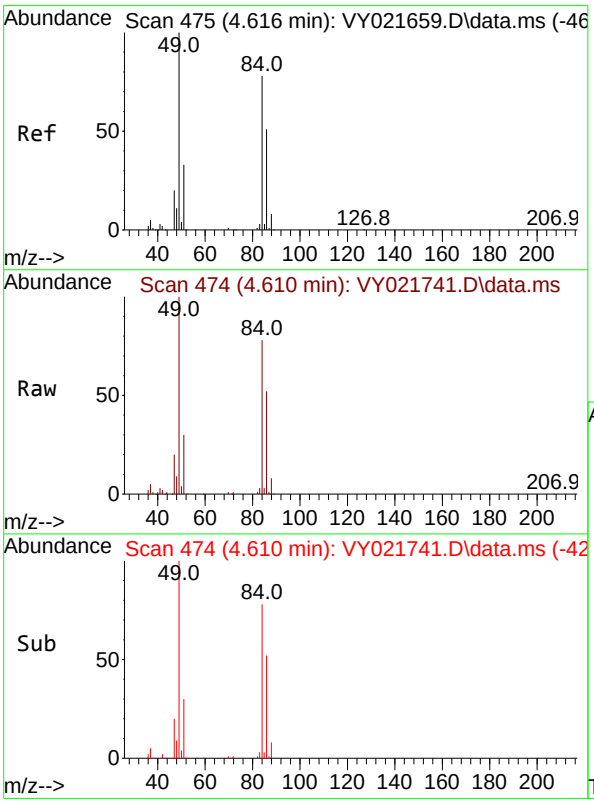
Ion	Ratio	Lower	Upper
73	100		
57	22.0	18.1	27.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

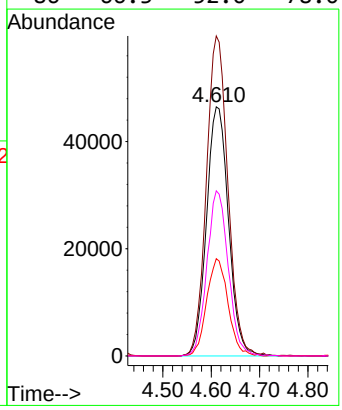
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

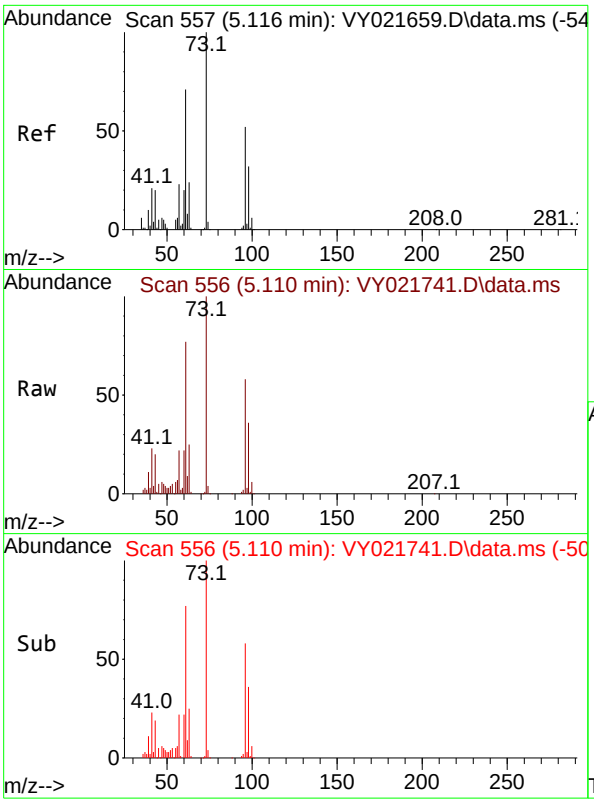


#20
Methylene Chloride
Concen: 71.458 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 84 Resp: 147141

Ion	Ratio	Lower	Upper
84	100		
49	128.4	102.8	154.2
51	39.0	33.5	50.3
86	66.3	52.0	78.0

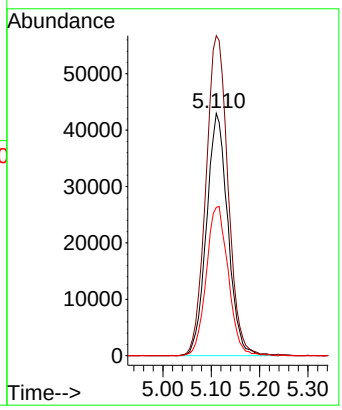




#21
trans-1,2-Dichloroethene
Concen: 58.839 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 96 Resp: 13202

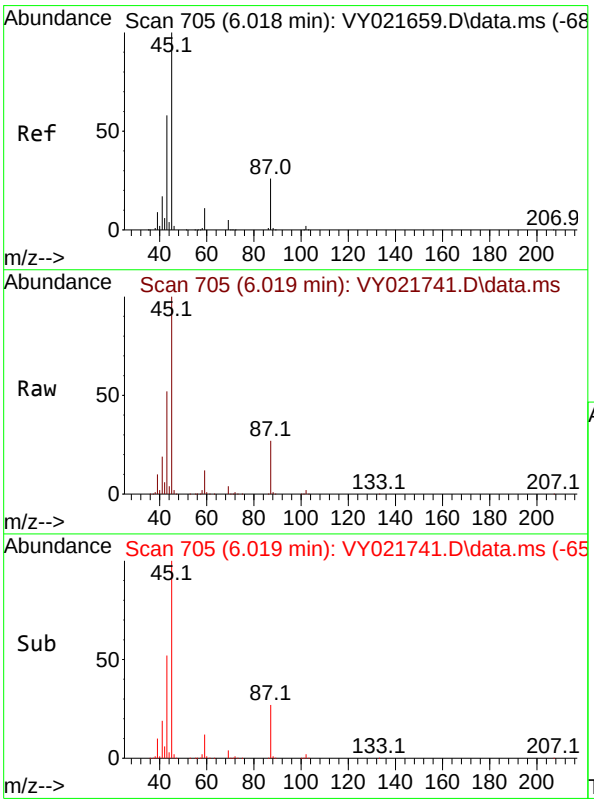
Ion	Ratio	Lower	Upper
96	100		
61	132.0	109.4	164.0
98	61.2	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

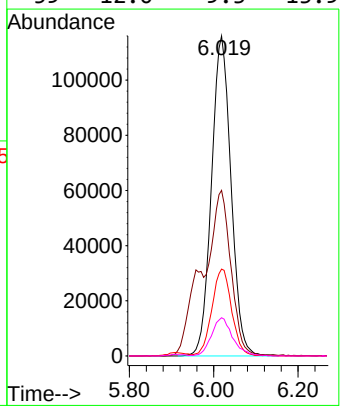
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

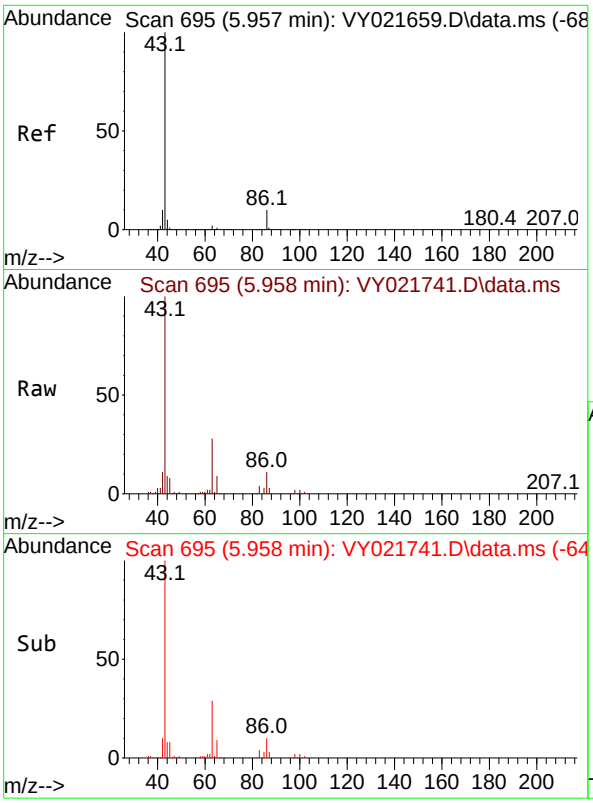


#22
Diisopropyl ether
Concen: 54.731 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 45 Resp: 373043

Ion	Ratio	Lower	Upper
45	100		
43	51.5	46.6	69.8
87	27.1	20.7	31.1
59	12.0	9.3	13.9





#23
Vinyl Acetate
Concen: 19.656 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

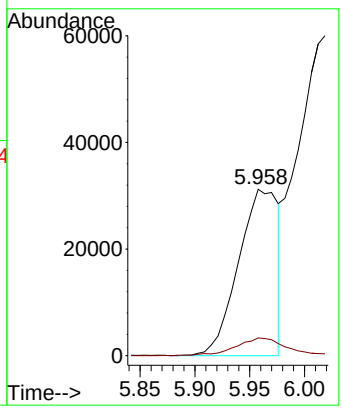
Tgt Ion: 43 Resp: 7837

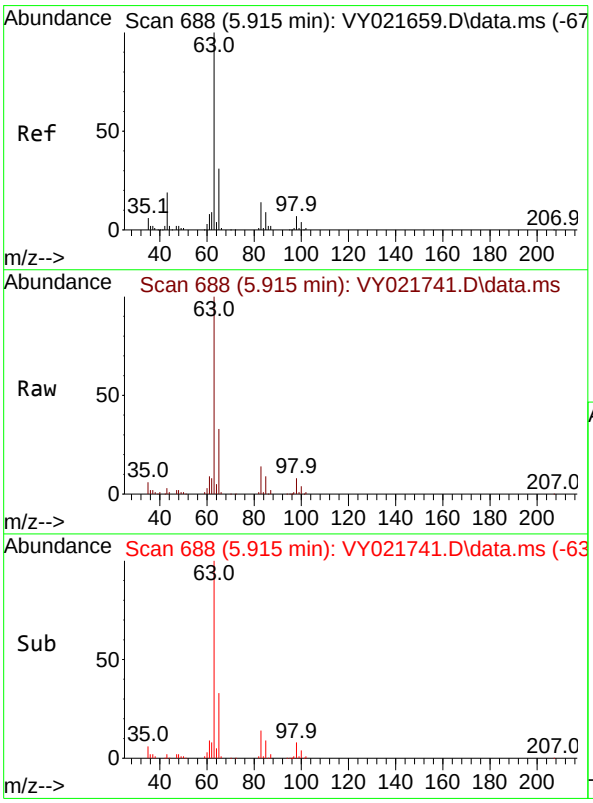
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

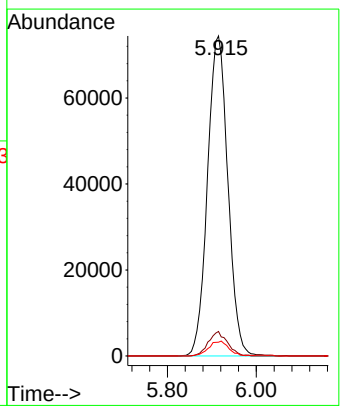


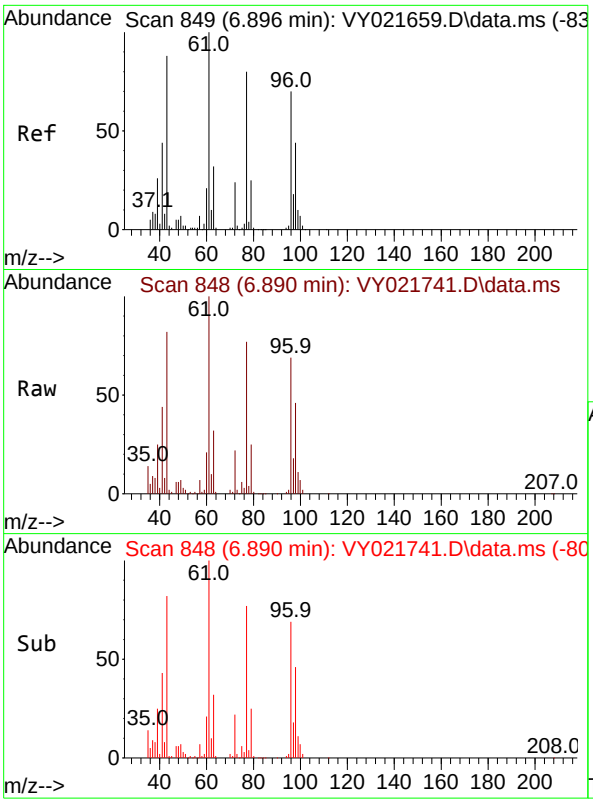


#24
1,1-Dichloroethane
Concen: 58.139 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 63 Resp: 236951

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.5
100	4.3	2.2	6.6





#25
2-Butanone
Concen: 277.201 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

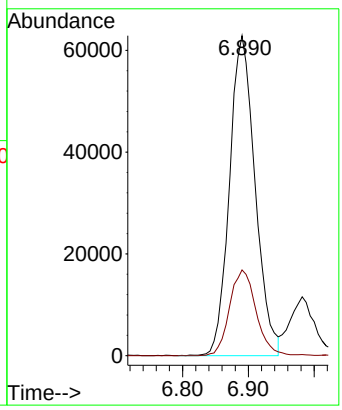
Tgt Ion: 43 Resp: 17057

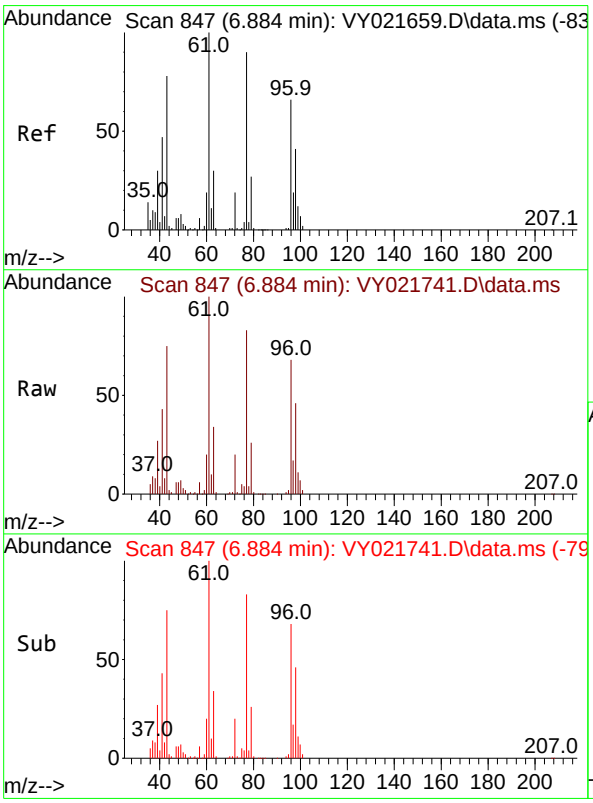
Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.4	32.2

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

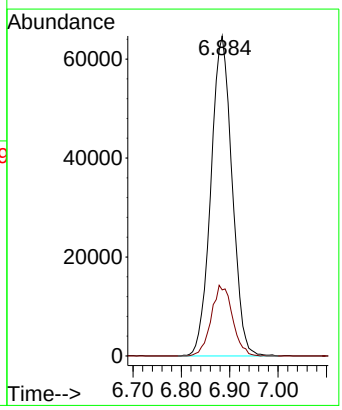


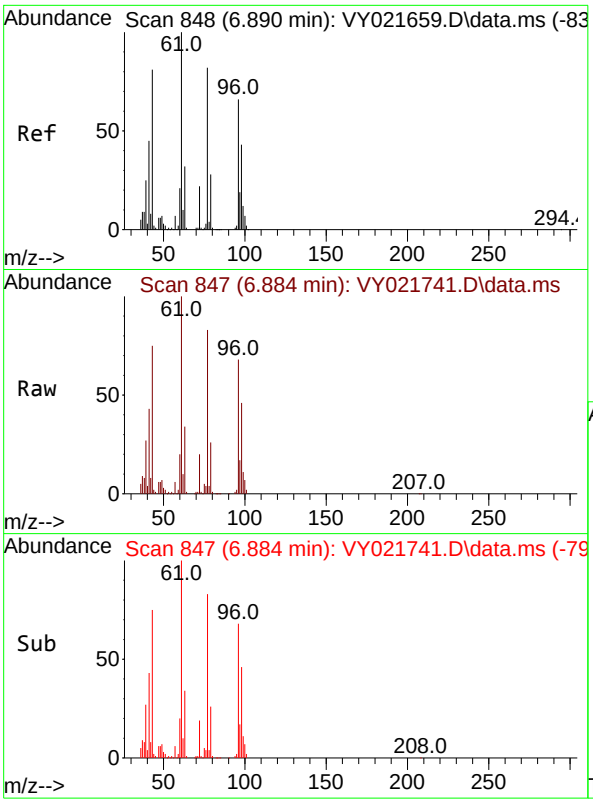


#26
2,2-Dichloropropane
Concen: 54.249 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 77 Resp: 196673

Ion	Ratio	Lower	Upper
77	100		
97	22.2	11.1	33.1





#27
cis-1,2-Dichloroethene
Concen: 58.720 ug/l
RT: 6.884 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

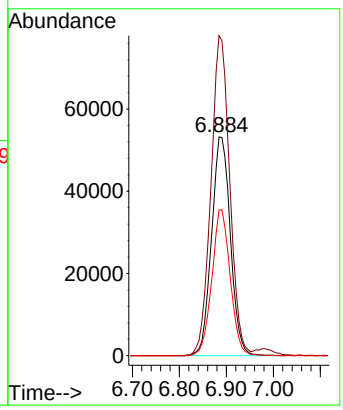
Tgt Ion: 96 Resp: 14816

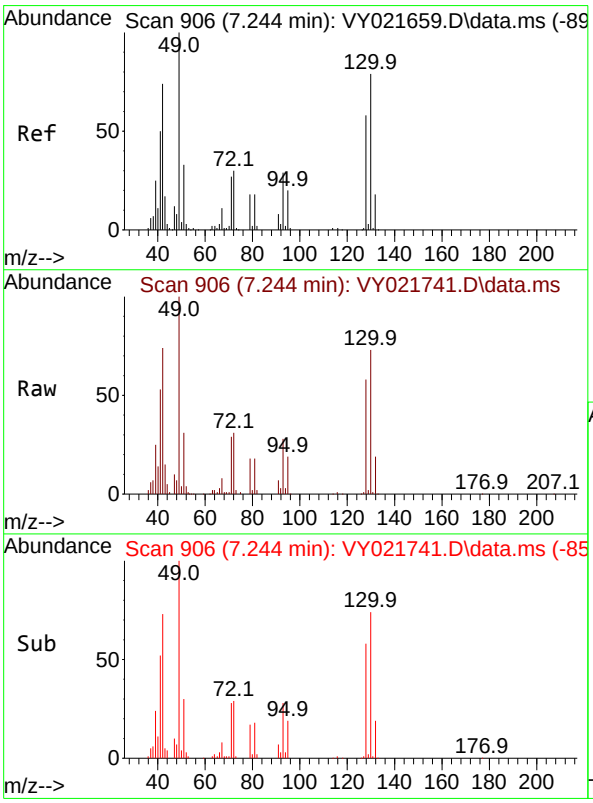
Ion	Ratio	Lower	Upper
96	100		
61	145.9	0.0	296.4
98	65.1	0.0	128.0

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

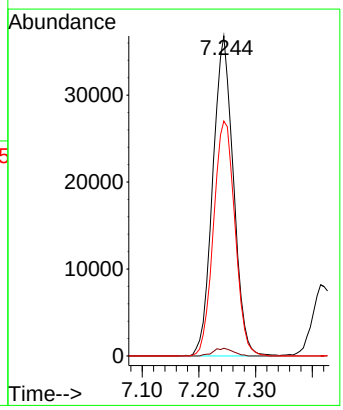


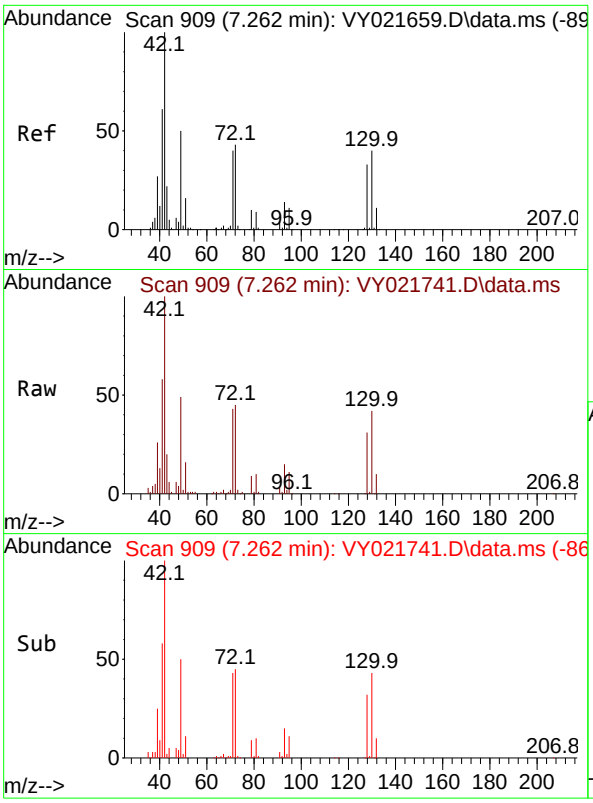


#28
Bromochloromethane
Concen: 54.096 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 49 Resp: 92982

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.4
130	76.2	60.1	90.1





#29
Tetrahydrofuran
Concen: 263.155 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

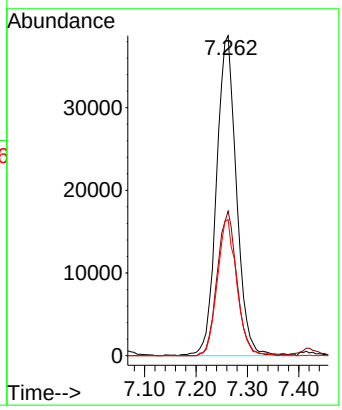
Tgt Ion: 42 Resp: 10421

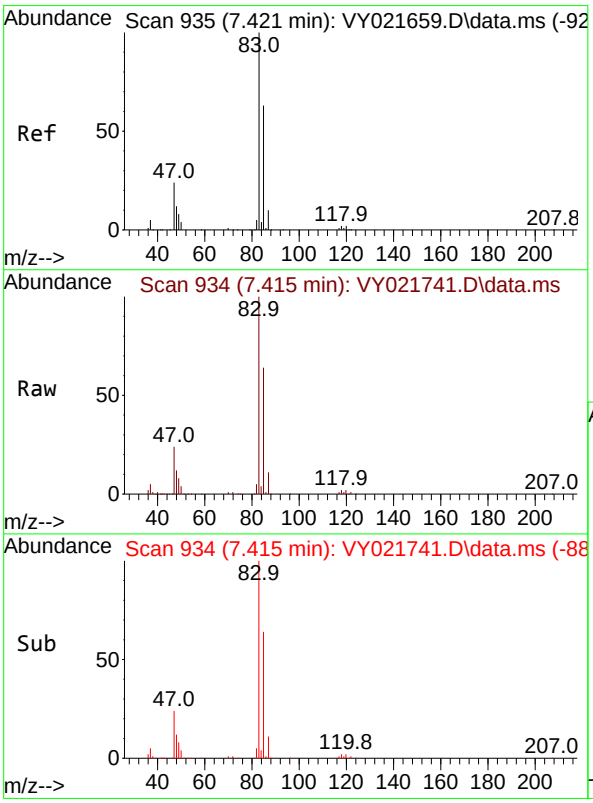
Ion	Ratio	Lower	Upper
42	100		
72	44.6	34.6	52.0
71	41.7	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

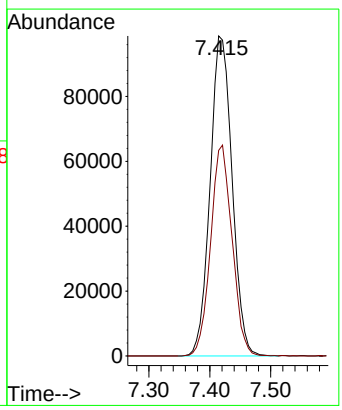


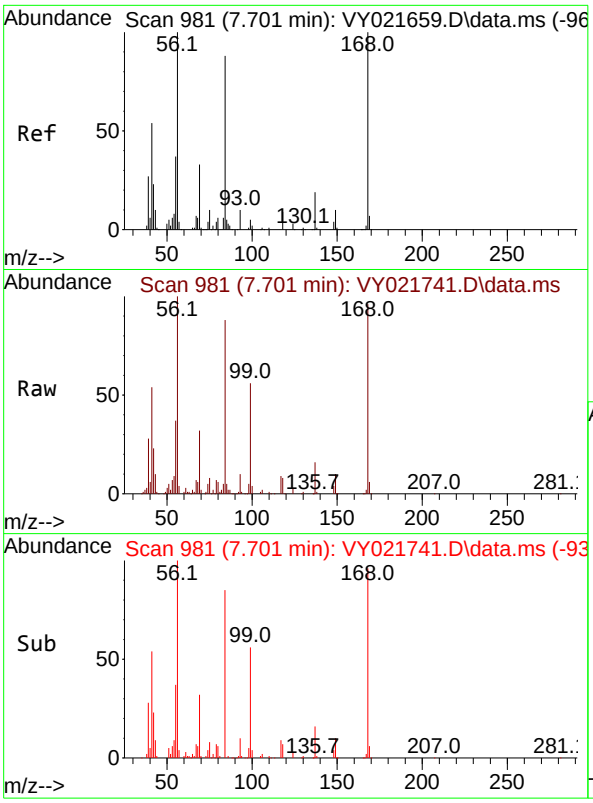


#30
Chloroform
Concen: 58.364 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 83 Resp: 247410

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.6	75.8

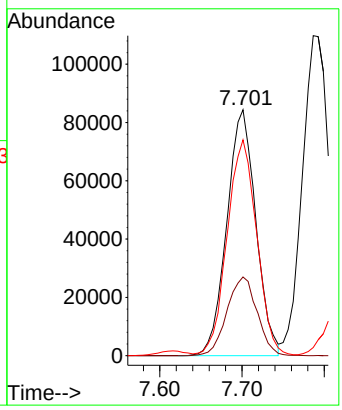




#31
Cyclohexane
Concen: 55.750 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 56 Resp: 20712

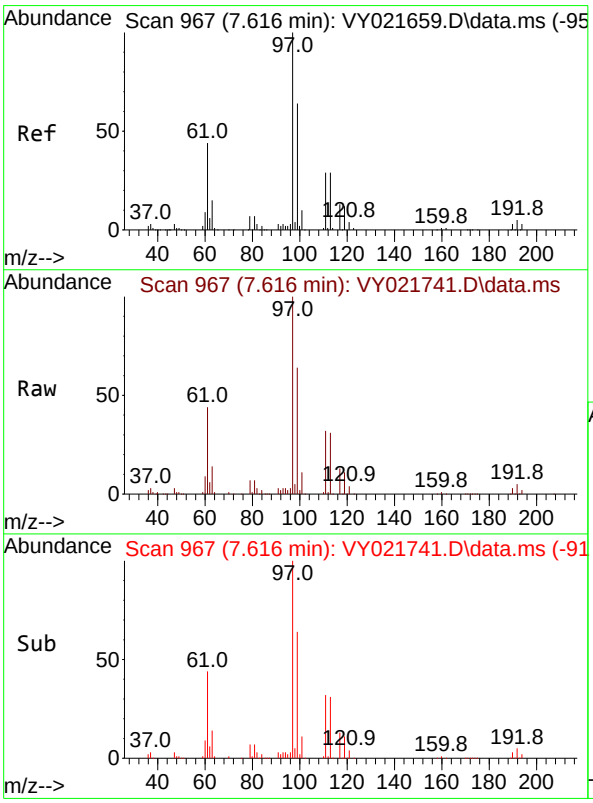
Ion	Ratio	Lower	Upper
56	100		
69	32.0	26.6	40.0
84	86.0	69.0	103.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

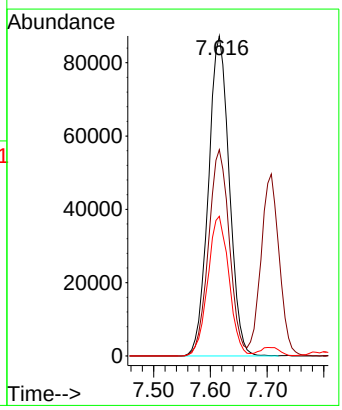
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

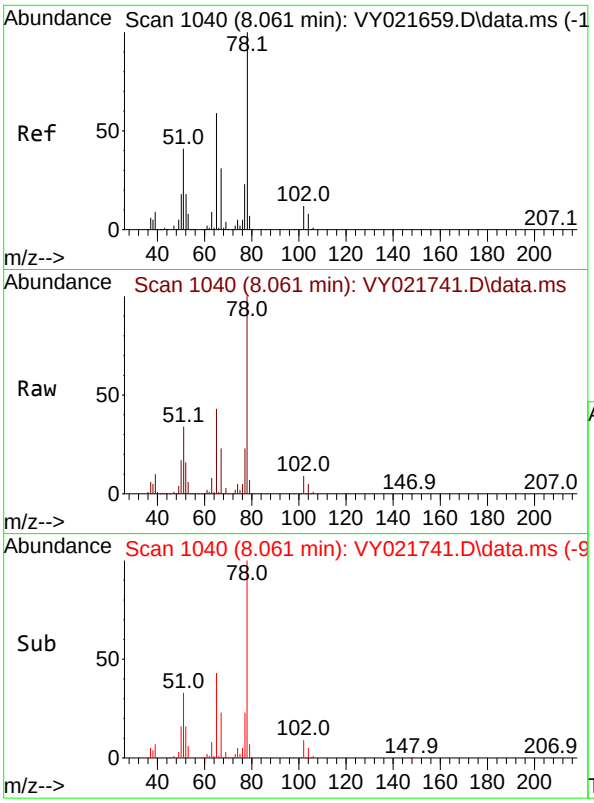


#32
1,1,1-Trichloroethane
Concen: 58.114 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 97 Resp: 222652

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.7	76.1
61	44.5	35.2	52.8

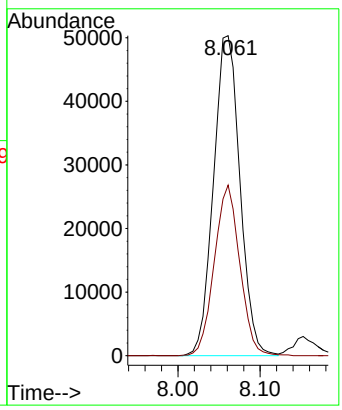




#33
1,2-Dichloroethane-d4
Concen: 53.510 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 65 Resp: 11263

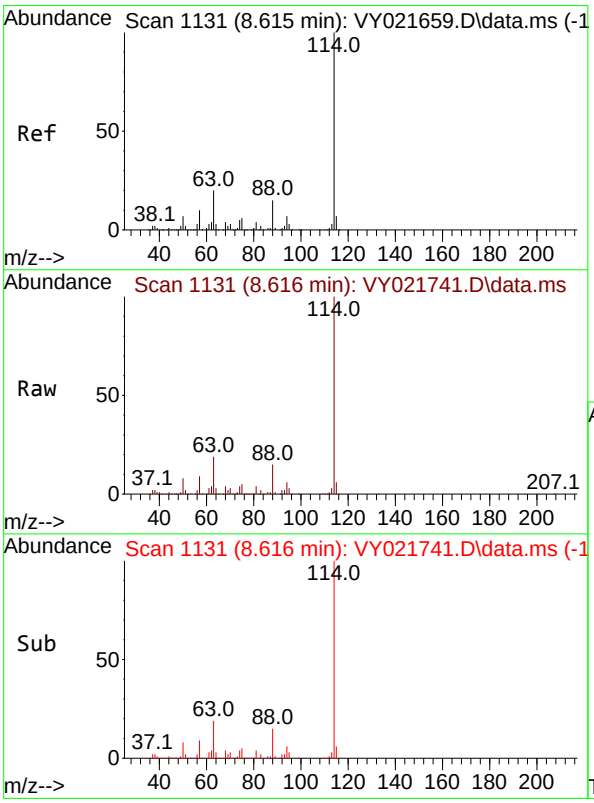
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations APPROVED

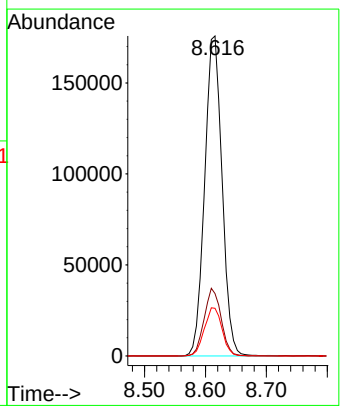
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

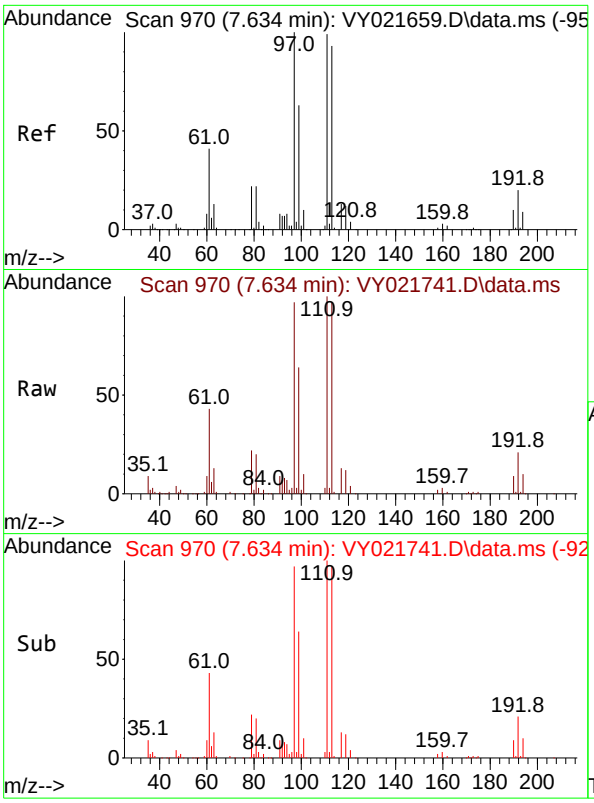


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:114 Resp: 349081

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.2
88	14.9	0.0	29.8

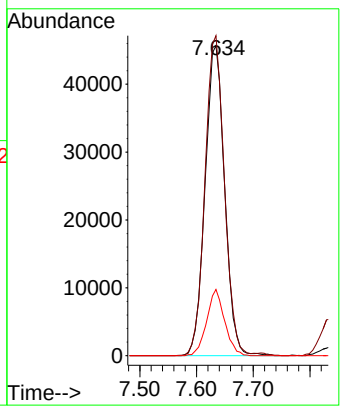




#35
Dibromofluoromethane
Concen: 48.315 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:113 Resp: 10940

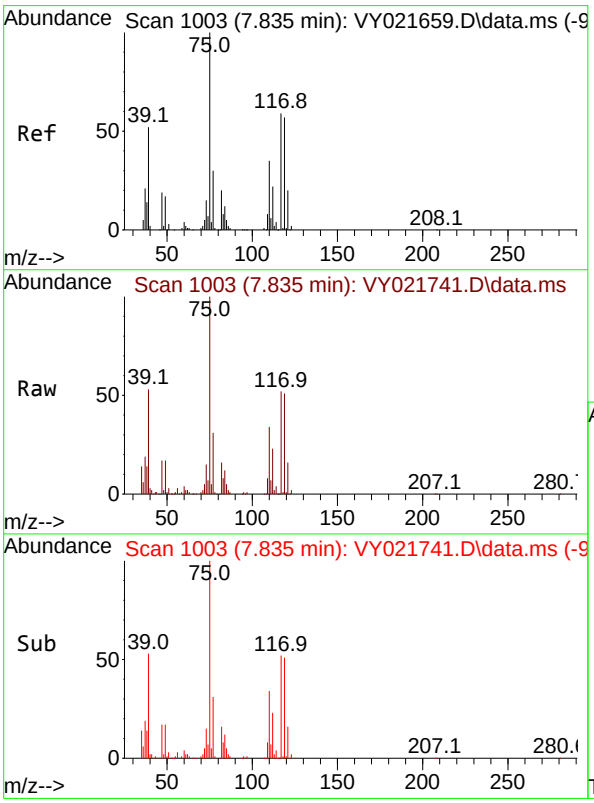
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	19.6	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

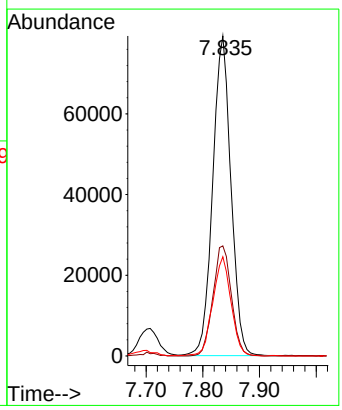
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

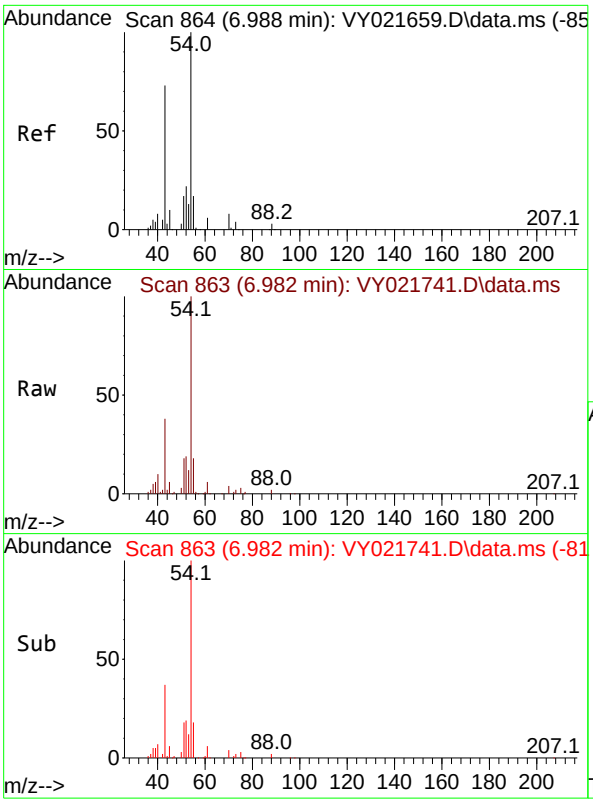


#36
1,1-Dichloropropene
Concen: 51.375 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 75 Resp: 177196

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.0	50.9
77	31.0	24.8	37.2





#37
Ethyl Acetate
Concen: 19.129 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

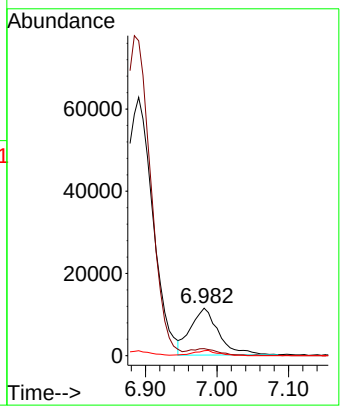
Tgt Ion: 43 Resp: 3113

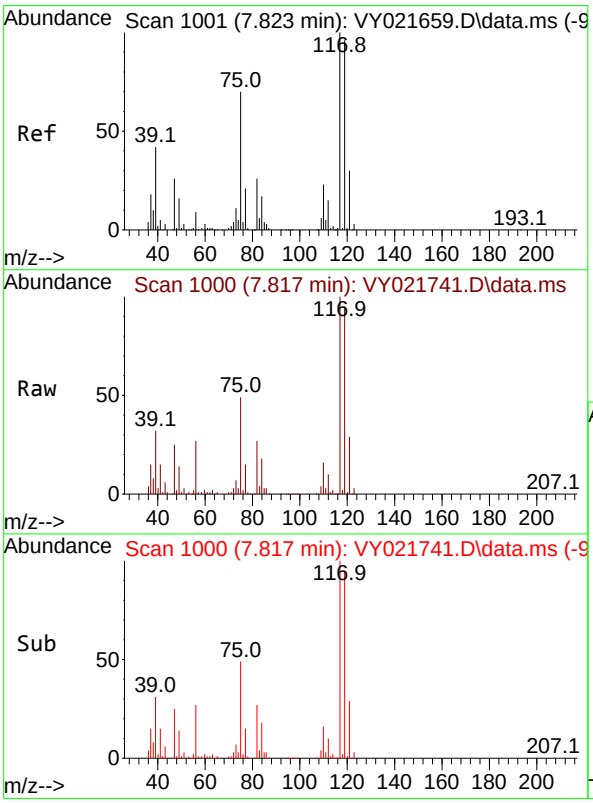
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6
70	10.0	8.1	12.1

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

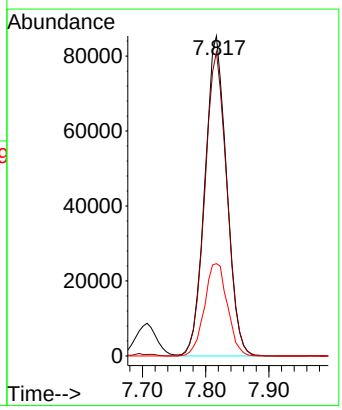


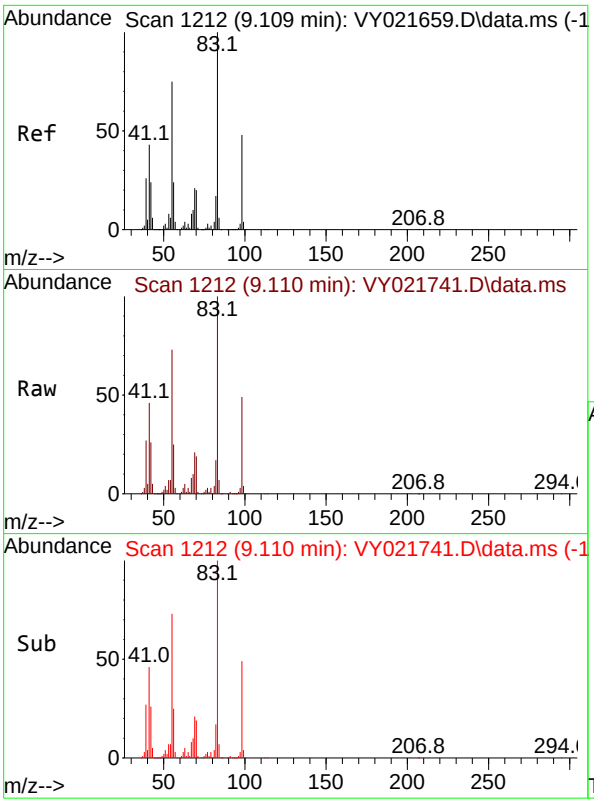


#38
Carbon Tetrachloride
Concen: 51.606 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:117 Resp: 203864

Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.2	114.4
121	28.8	24.2	36.4





#39
Methylcyclohexane
Concen: 51.561 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

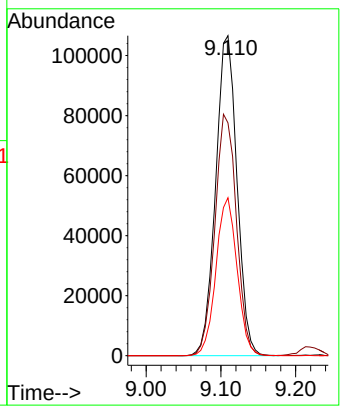
Tgt Ion: 83 Resp: 21244

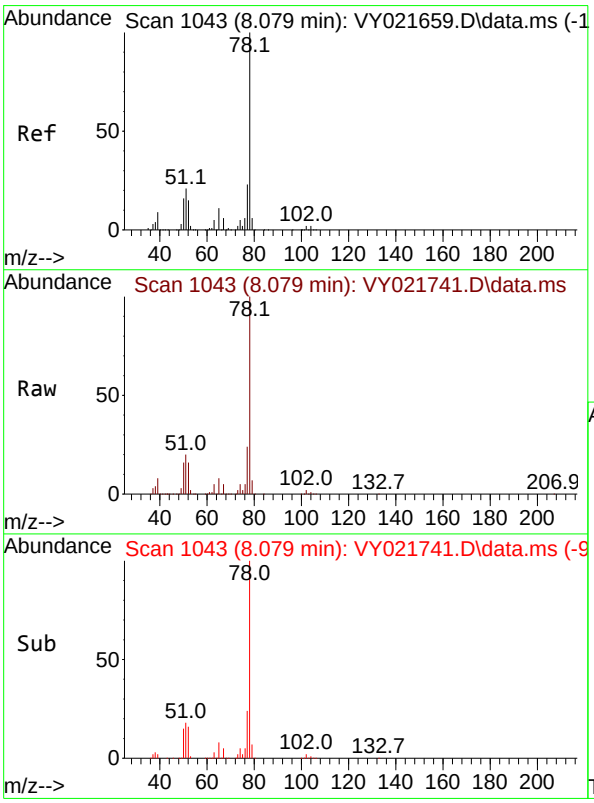
Ion	Ratio	Lower	Upper
83	100		
55	72.8	59.7	89.5
98	49.4	38.3	57.5

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

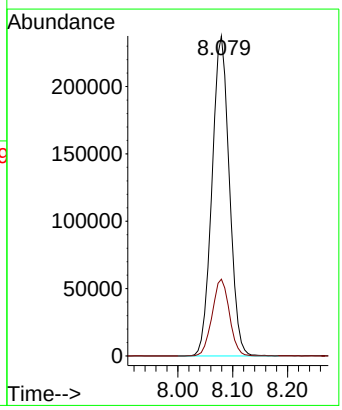


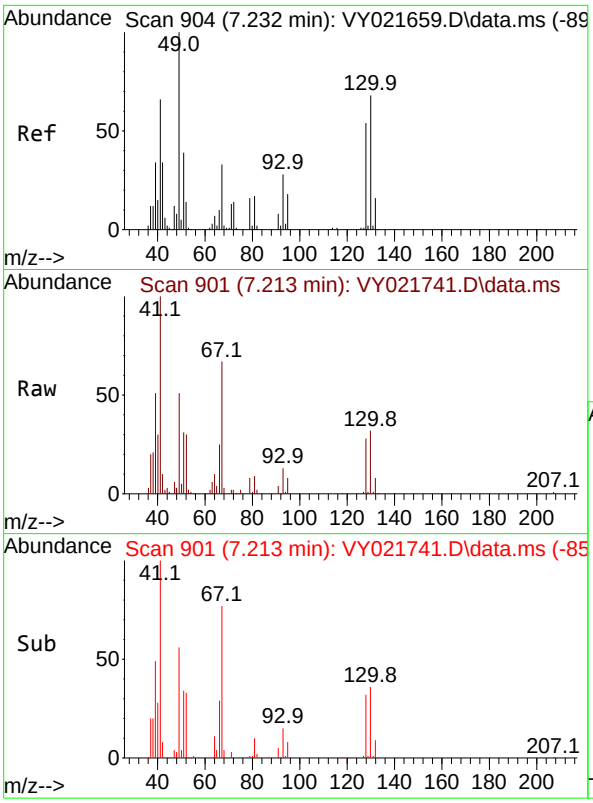


#40
Benzene
Concen: 50.449 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 78 Resp: 521100

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

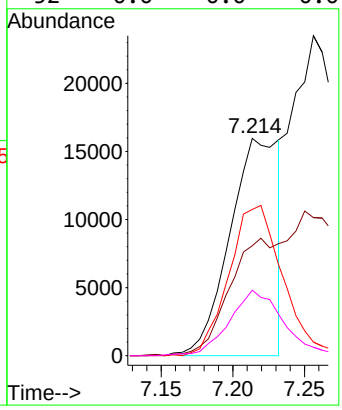




#41
Methacrylonitrile
Concen: 43.846 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.018 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

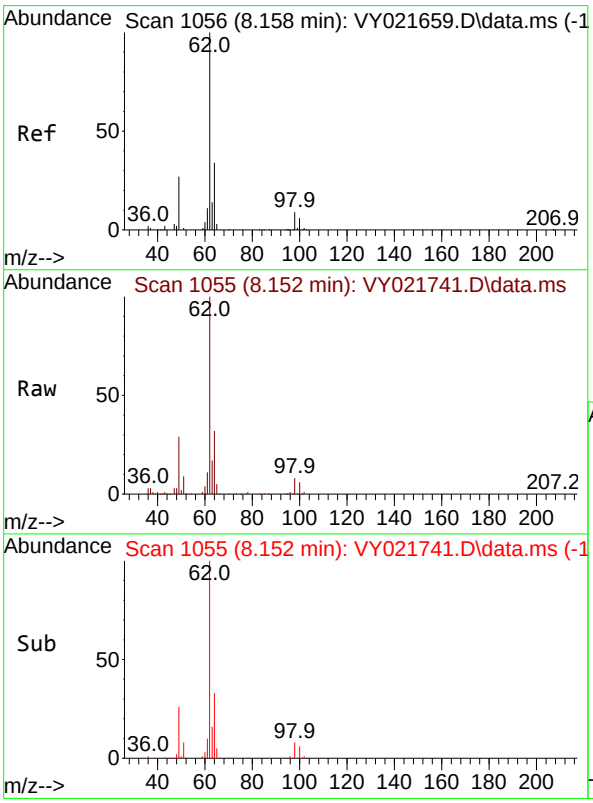
Tgt Ion: 41 Resp: 3790

Ion	Ratio	Lower	Upper
41	100		
39	68.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

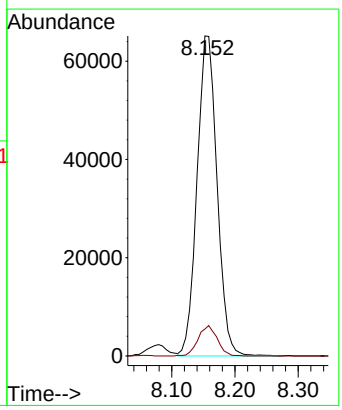
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

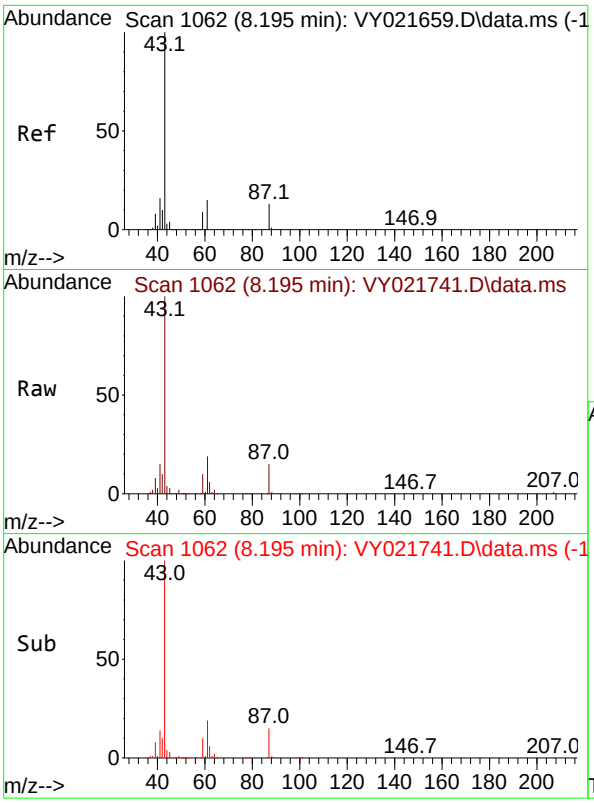


#42
1,2-Dichloroethane
Concen: 49.292 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 62 Resp: 143535

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.4





#43
Isopropyl Acetate
Concen: 28.087 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

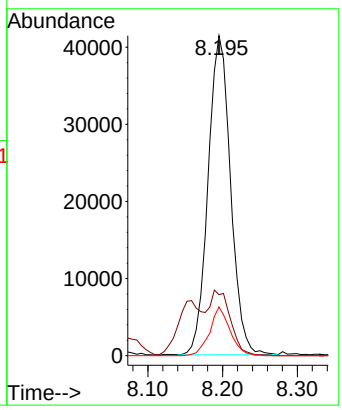
Tgt Ion: 43 Resp: 8664

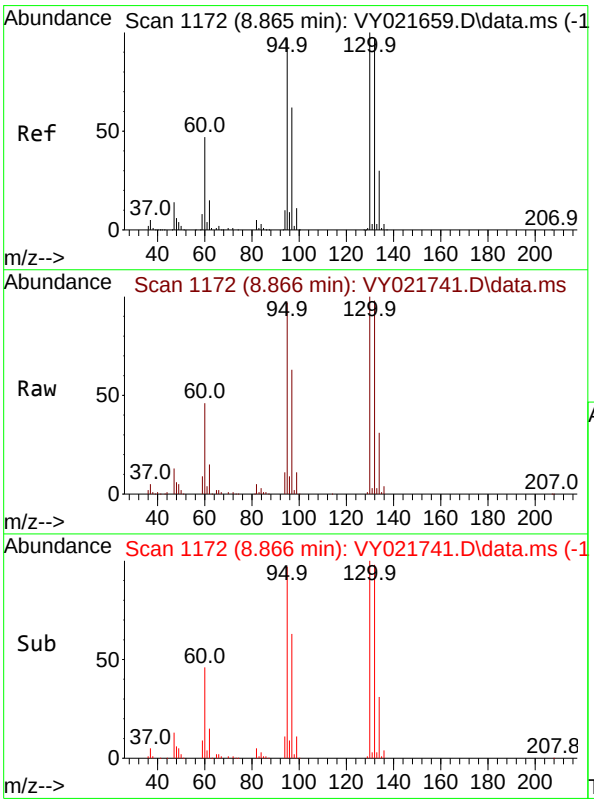
Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.9	23.9
87	13.8	10.4	15.6

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

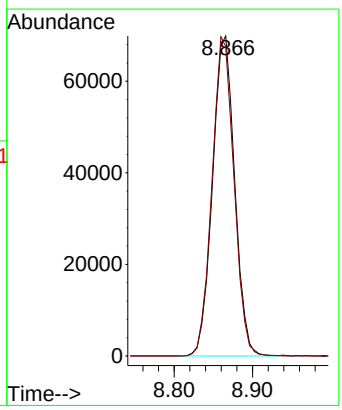


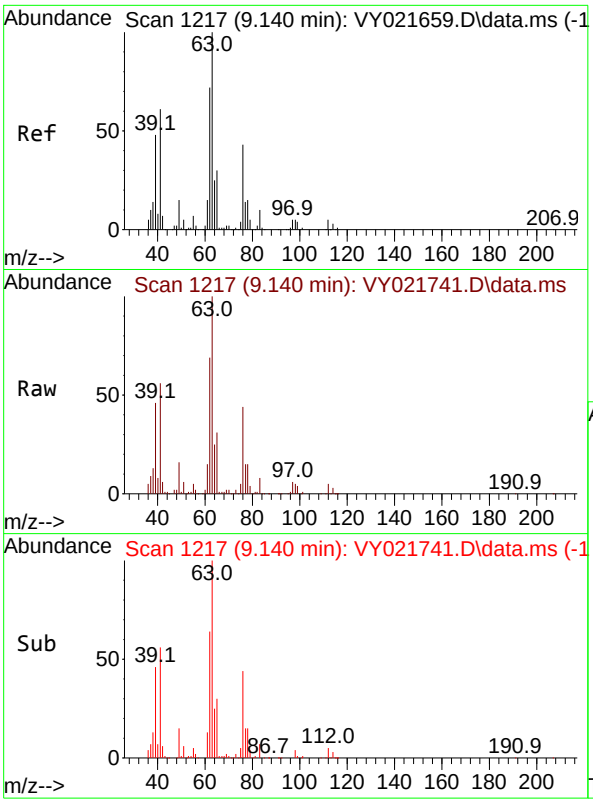


#44
Trichloroethene
Concen: 52.069 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:130 Resp: 137034

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	194.8

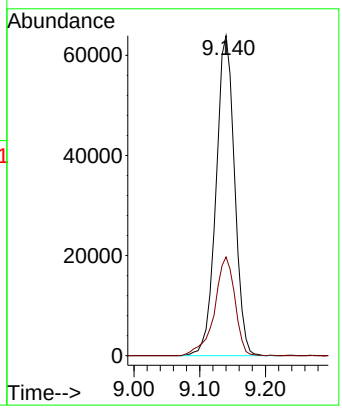




#45
1,2-Dichloropropane
Concen: 51.276 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 63 Resp: 12536

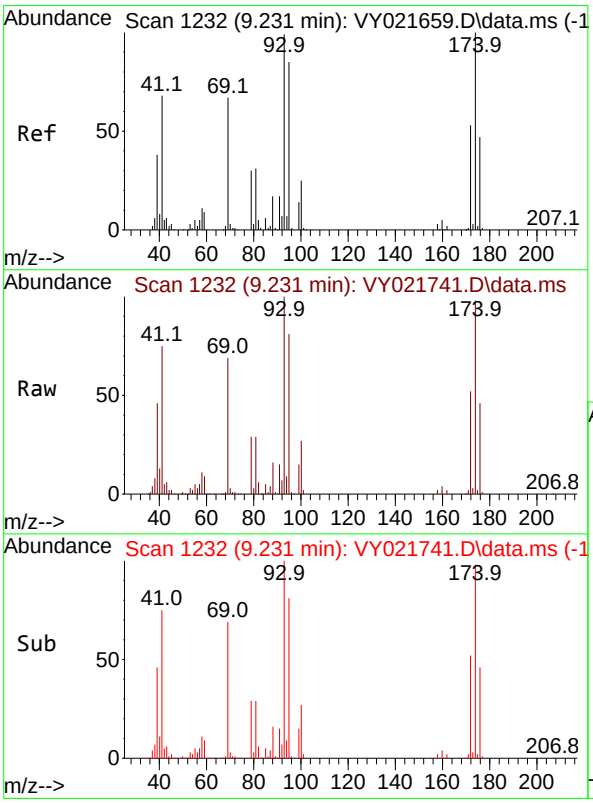
Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

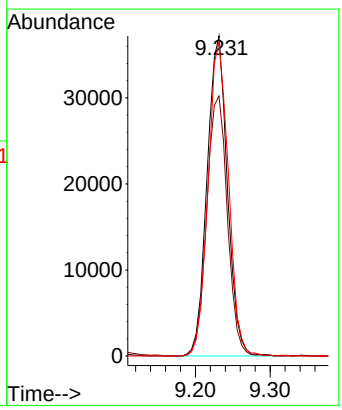
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

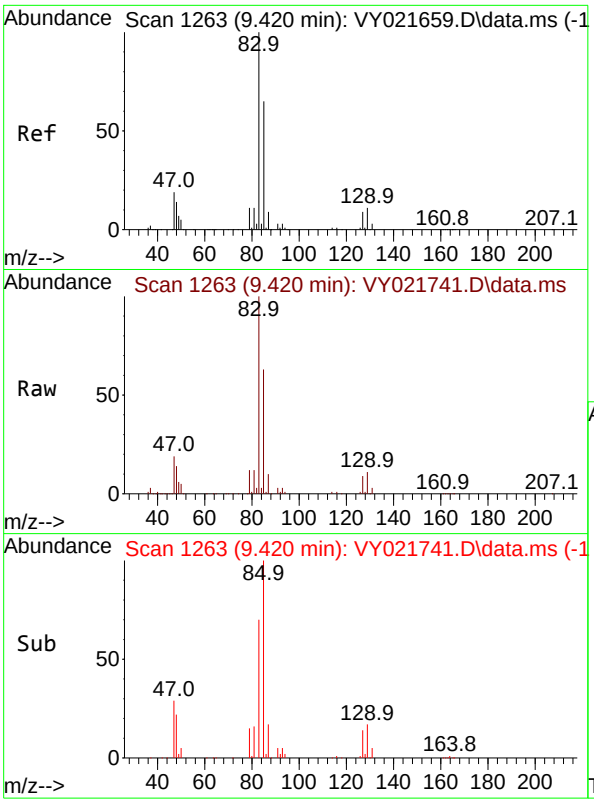


#46
Dibromomethane
Concen: 49.710 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 93 Resp: 70046

Ion	Ratio	Lower	Upper
93	100		
95	83.0	68.1	102.1
174	98.5	80.9	121.3

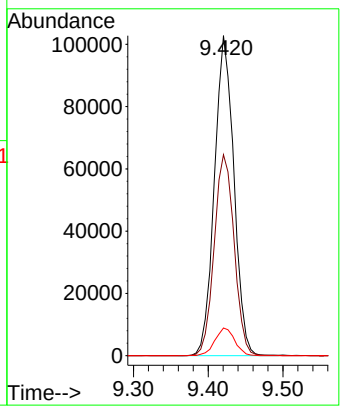




#47
Bromodichloromethane
Concen: 51.058 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

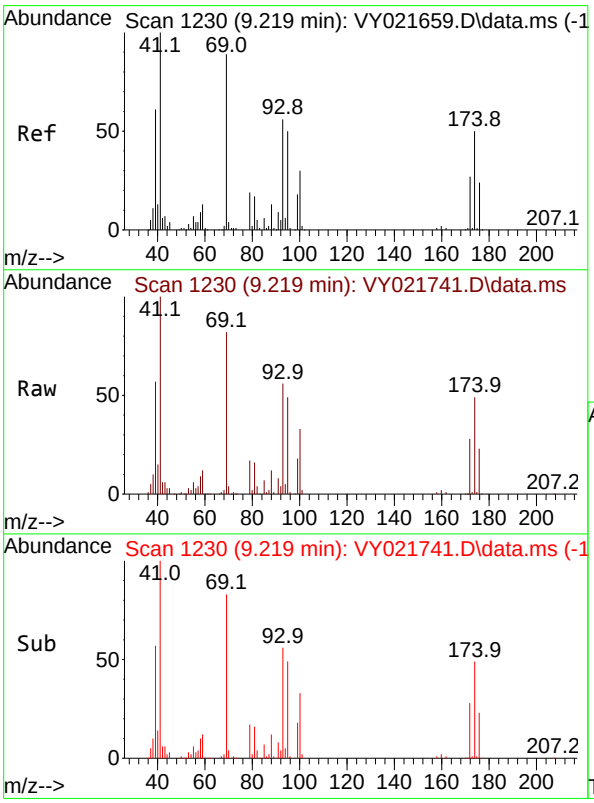
Tgt Ion: 83 Resp: 18642

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.8	77.6
127	8.7	6.8	10.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

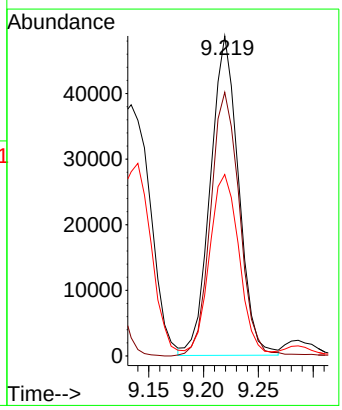
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

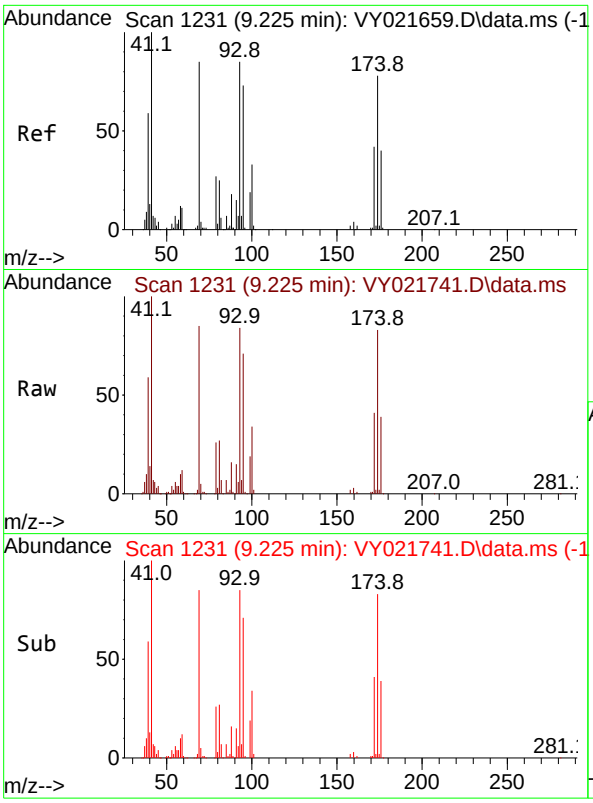


#48
Methyl methacrylate
Concen: 61.640 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 41 Resp: 87268

Ion	Ratio	Lower	Upper
41	100		
69	84.7	69.8	104.8
39	56.7	47.2	70.8





#49
1,4-Dioxane
Concen: 956.541 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

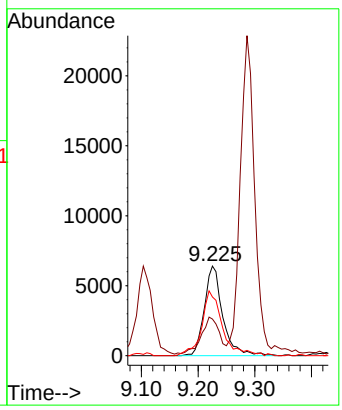
Tgt Ion: 88 Resp: 1443

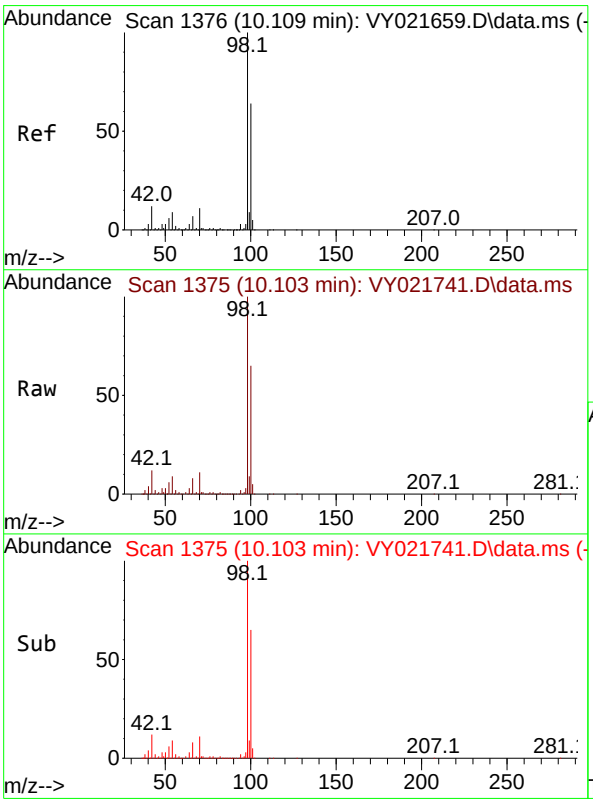
Ion	Ratio	Lower	Upper
88	100		
43	41.0	28.8	43.2
58	80.5	59.4	89.2

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

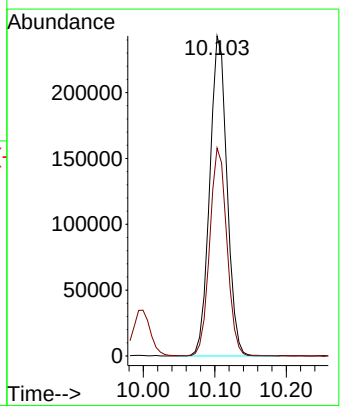


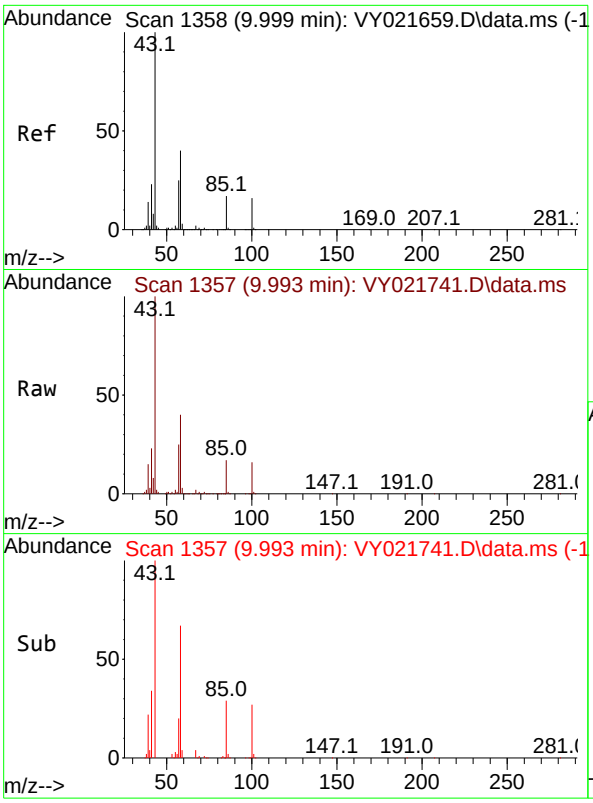


#50
Toluene-d8
Concen: 47.217 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 98 Resp: 406751

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.1	78.1

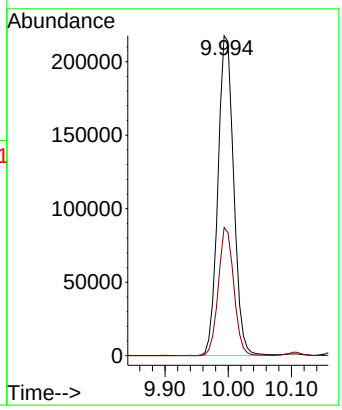




#51
4-Methyl-2-Pentanone
Concen: 234.563 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 43 Resp: 37654

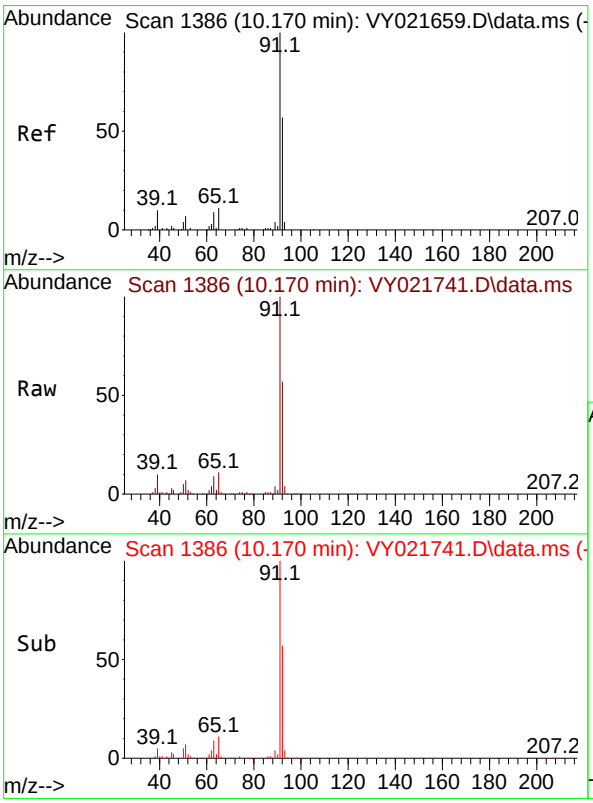
Ion	Ratio	Lower	Upper
43	100		
58	39.3	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

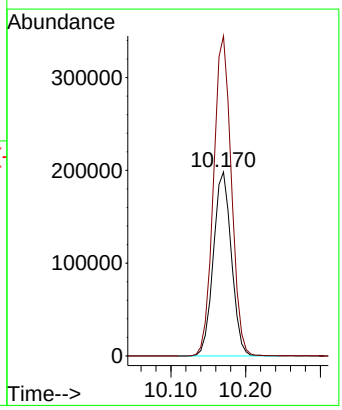
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

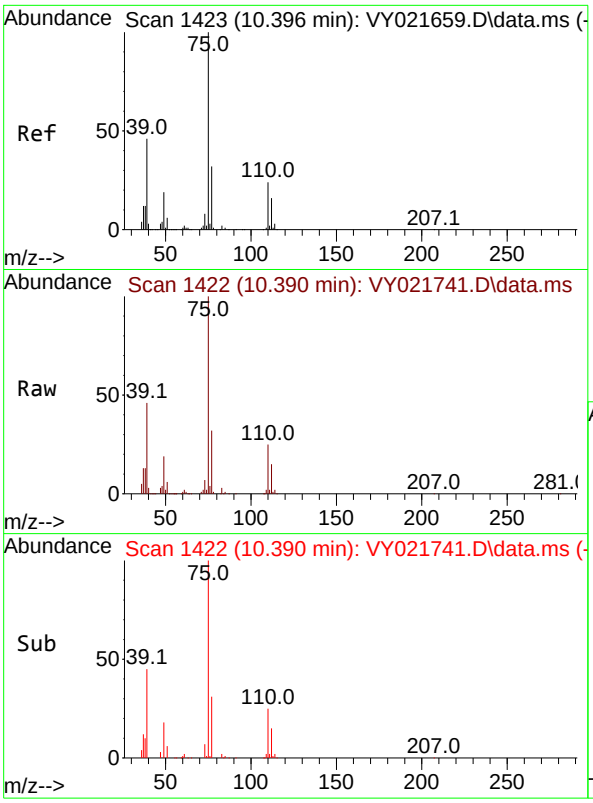


#52
Toluene
Concen: 51.572 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 92 Resp: 332355

Ion	Ratio	Lower	Upper
92	100		
91	172.7	138.6	207.8

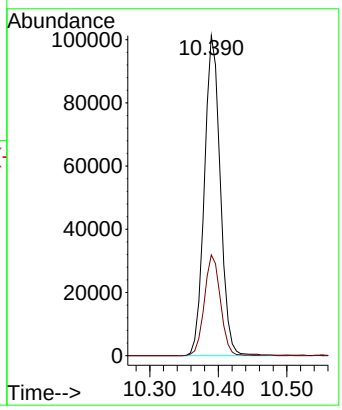




#53
t-1,3-Dichloropropene
Concen: 50.414 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 75 Resp: 16349

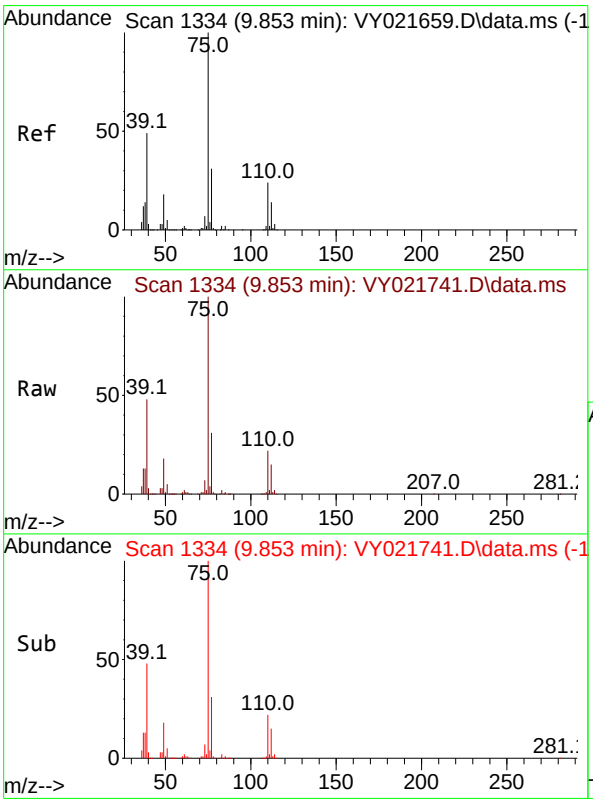
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

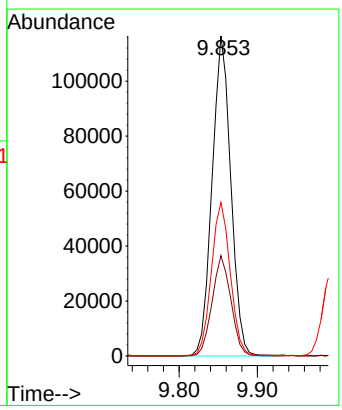
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

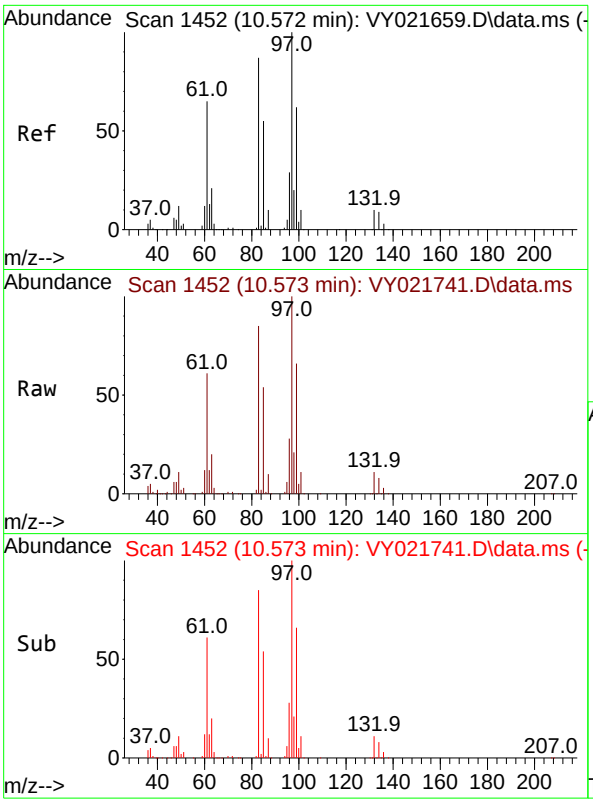


#54
cis-1,3-Dichloropropene
Concen: 50.606 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 75 Resp: 193616

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.9	37.3
39	47.8	39.2	58.8

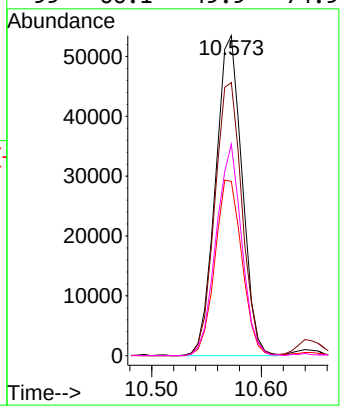




#55
1,1,2-Trichloroethane
Concen: 49.734 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

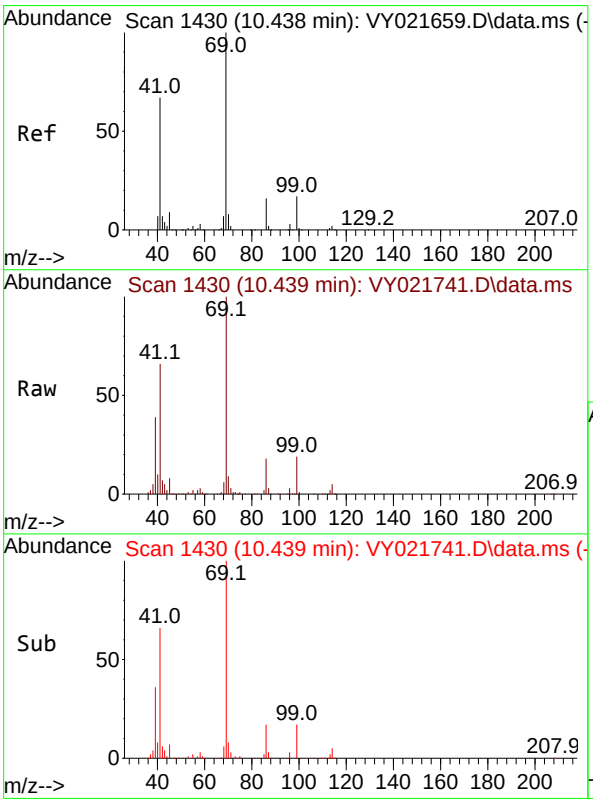
Tgt Ion: 97 Resp: 9018

Ion	Ratio	Lower	Upper
97	100		
83	85.3	69.5	104.3
85	54.5	43.9	65.9
99	66.1	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

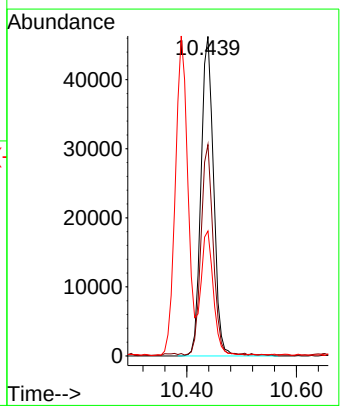
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

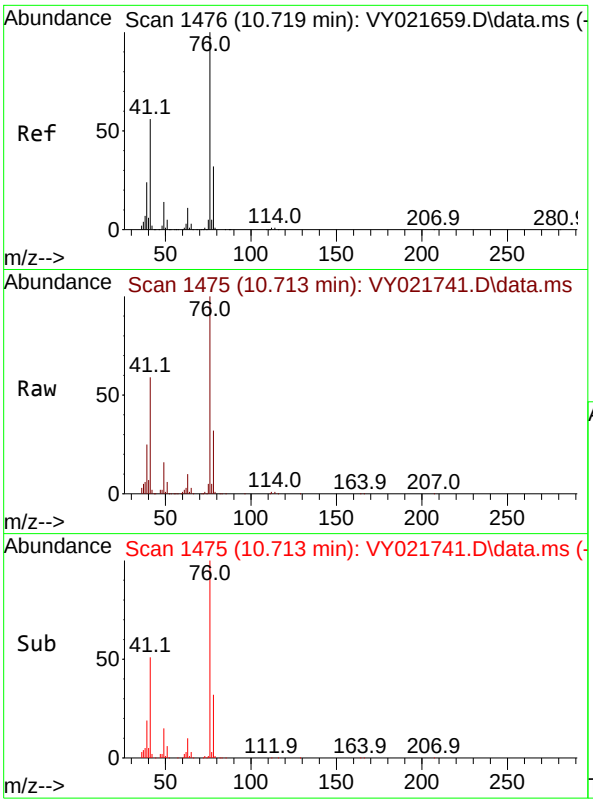


#56
Ethyl methacrylate
Concen: 31.959 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 69 Resp: 73999

Ion	Ratio	Lower	Upper
69	100		
41	63.4	53.8	80.6
39	38.5	29.6	44.4

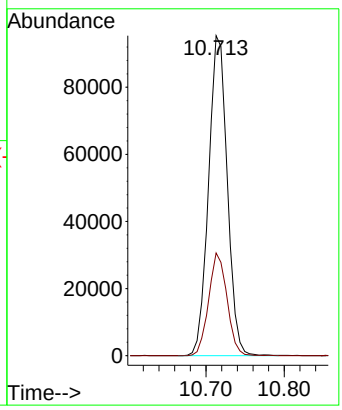




#57
1,3-Dichloropropane
Concen: 50.475 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 76 Resp: 15807

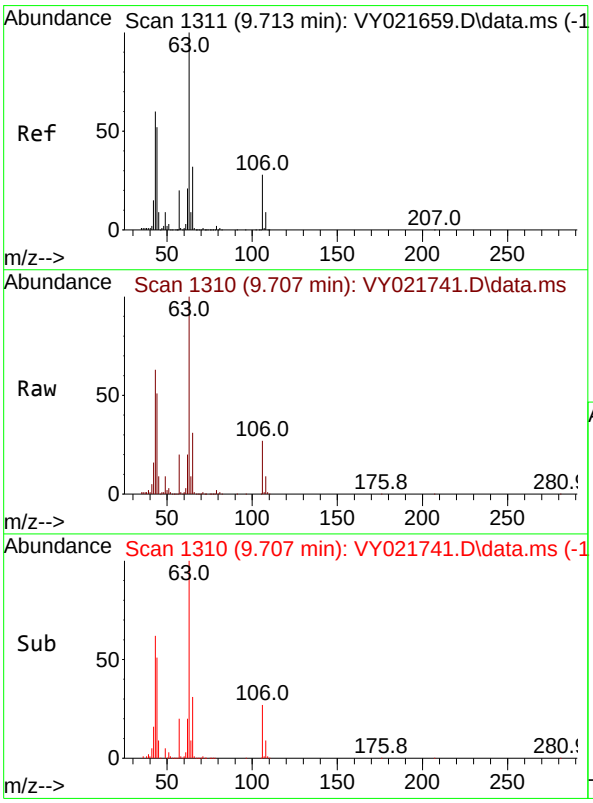
Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

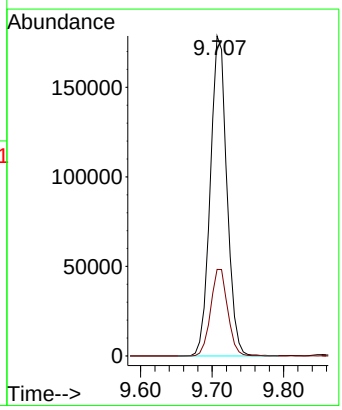
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

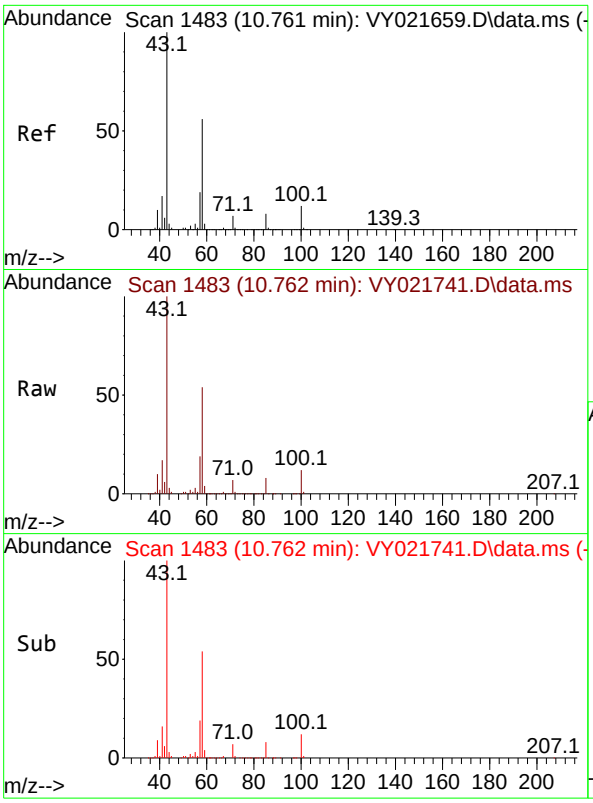


#58
2-Chloroethyl Vinyl ether
Concen: 254.940 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 63 Resp: 287965

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.4	33.6





#59
2-Hexanone
Concen: 223.766 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

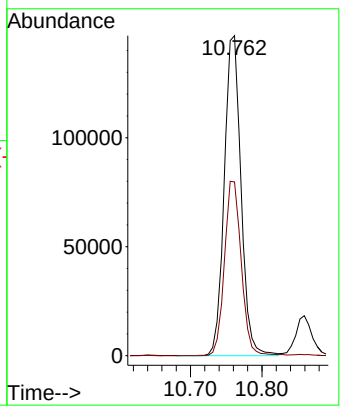
Tgt Ion: 43 Resp: 23922

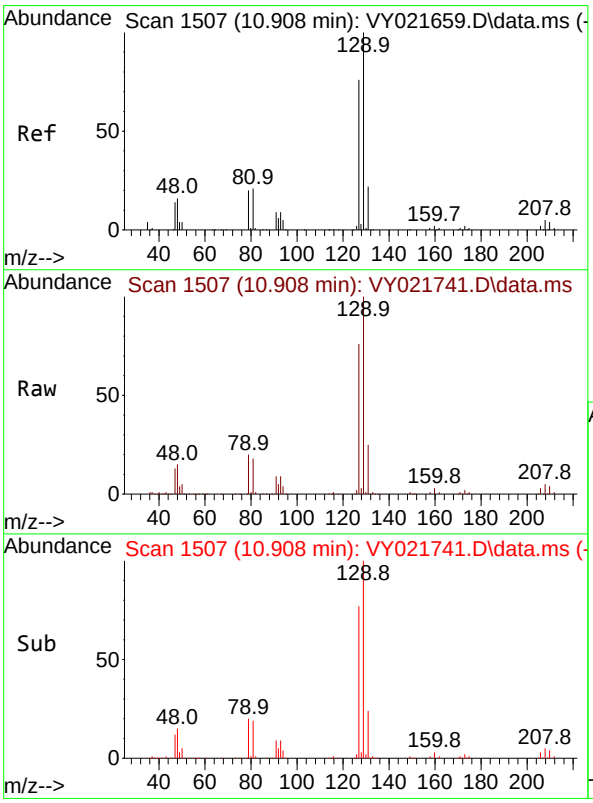
Ion	Ratio	Lower	Upper
43	100		
58	54.6	27.2	81.5

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

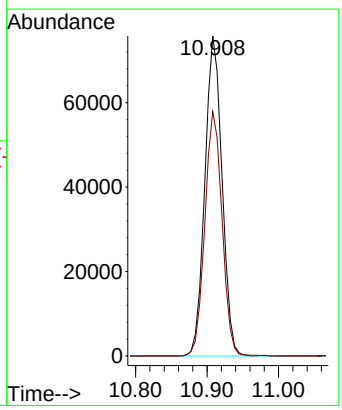


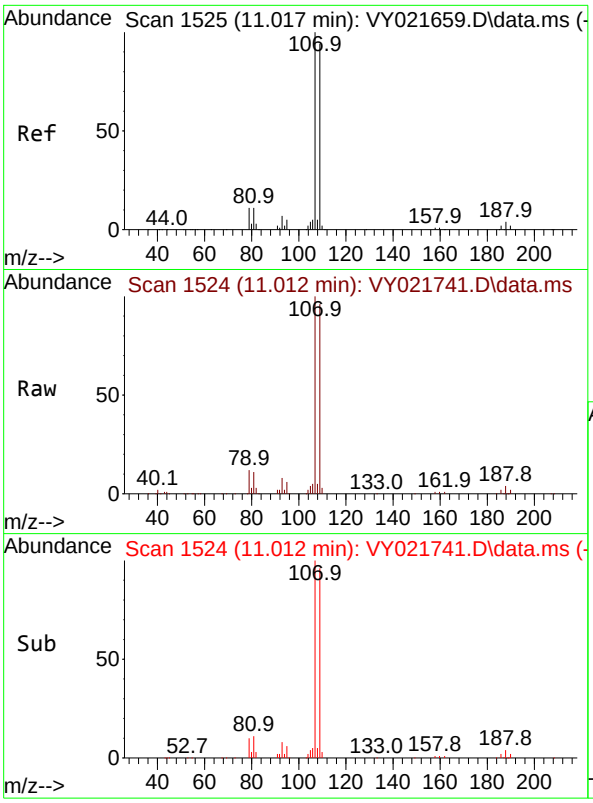


#60
Dibromochloromethane
Concen: 50.967 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:129 Resp: 126183

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.6	115.7

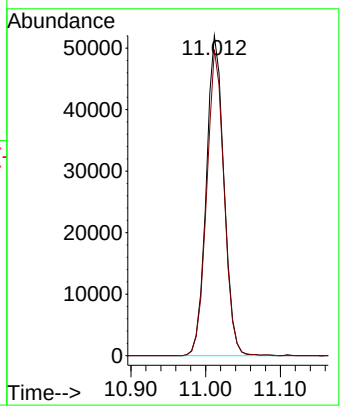




#61
1,2-Dibromoethane
Concen: 50.131 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:107 Resp: 8527

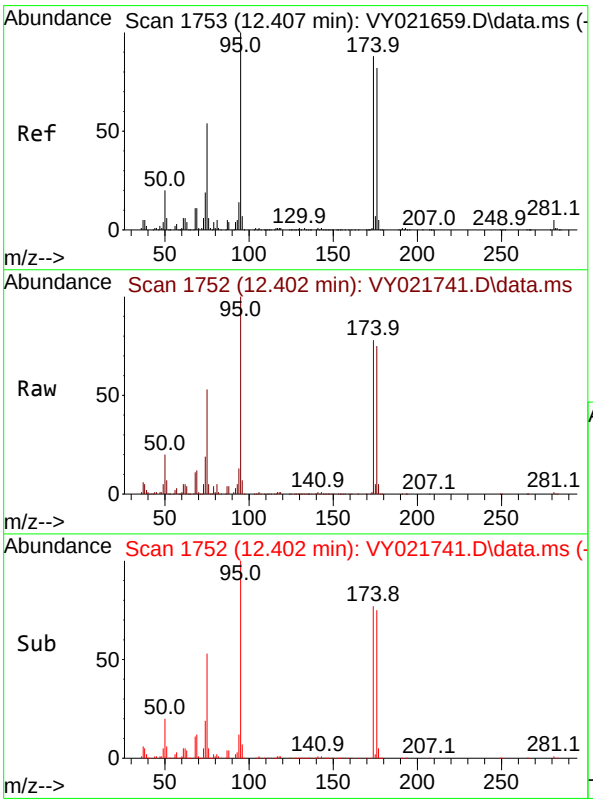
Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.4	111.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

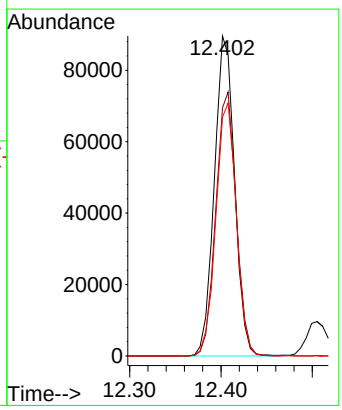
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

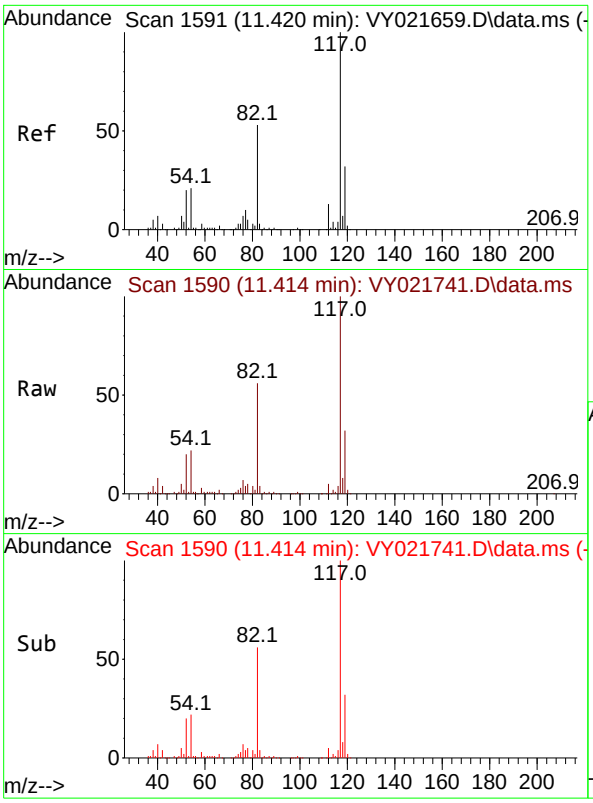


#62
4-Bromofluorobenzene
Concen: 47.301 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 95 Resp: 137827

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	170.8
176	80.0	0.0	162.0

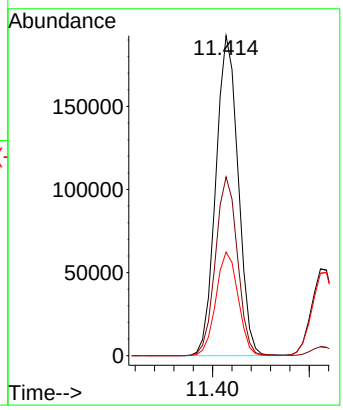




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:117 Resp: 30806

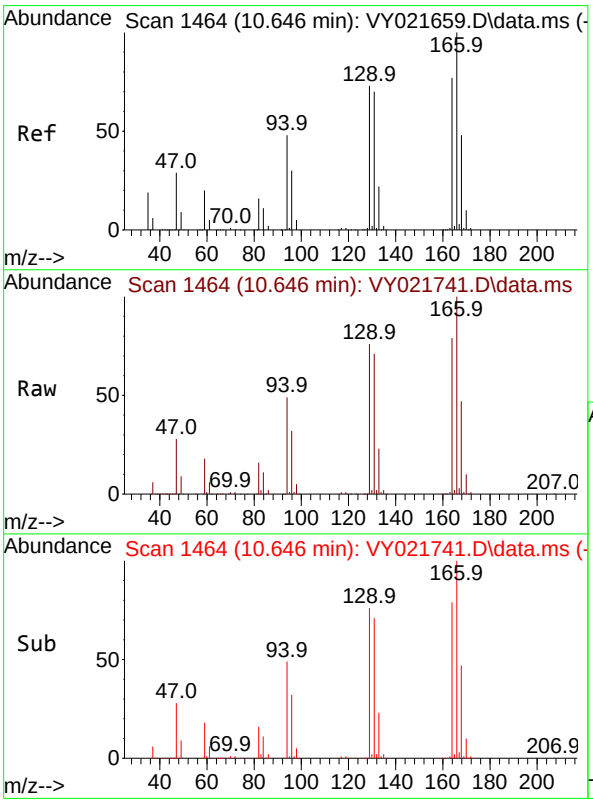
Ion	Ratio	Lower	Upper
117	100		
82	55.9	42.8	64.2
119	32.4	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

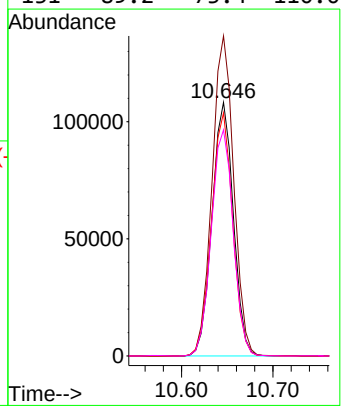
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

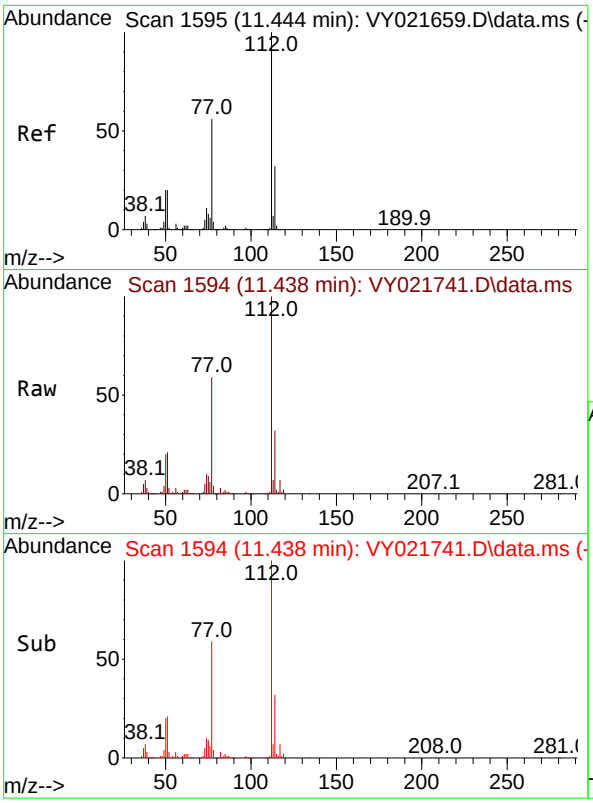


#64
Tetrachloroethene
Concen: 62.531 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:164 Resp: 175448

Ion	Ratio	Lower	Upper
164	100		
166	126.2	104.6	156.8
129	95.9	76.6	114.8
131	89.2	73.4	110.0

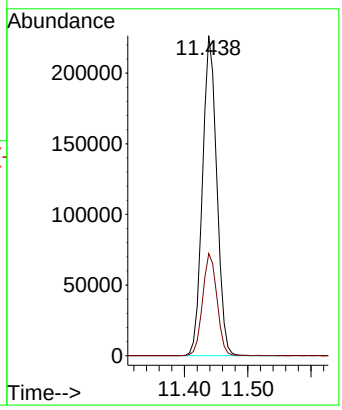




#65
Chlorobenzene
Concen: 50.534 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:112 Resp: 35686

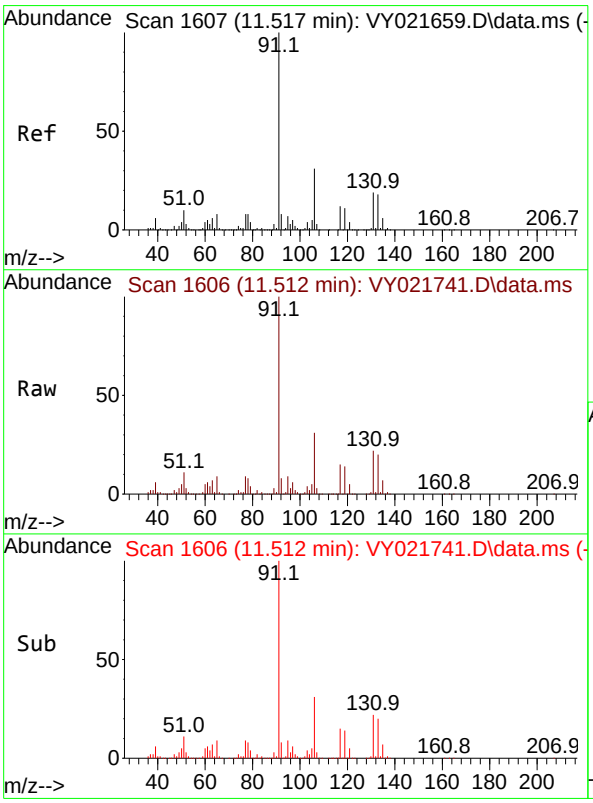
Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

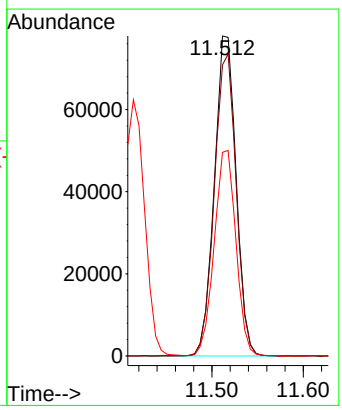
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

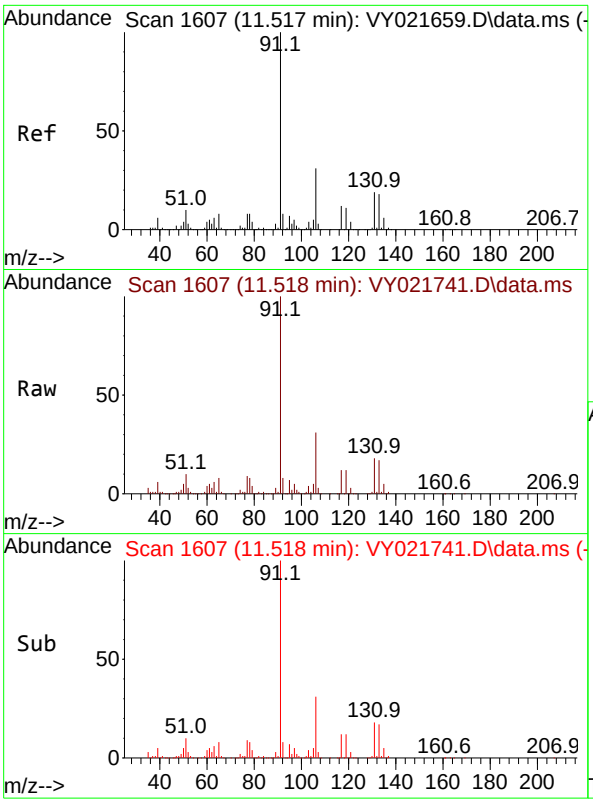


#66
1,1,1,2-Tetrachloroethane
Concen: 51.502 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:131 Resp: 129041

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.8
119	64.3	31.6	95.0

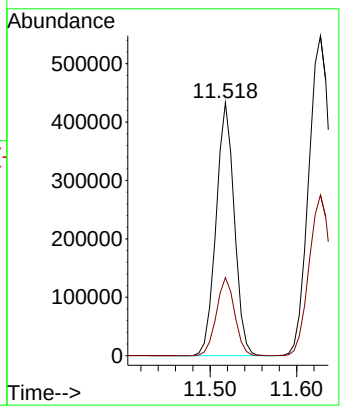




#67
Ethyl Benzene
Concen: 52.157 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 91 Resp: 63160

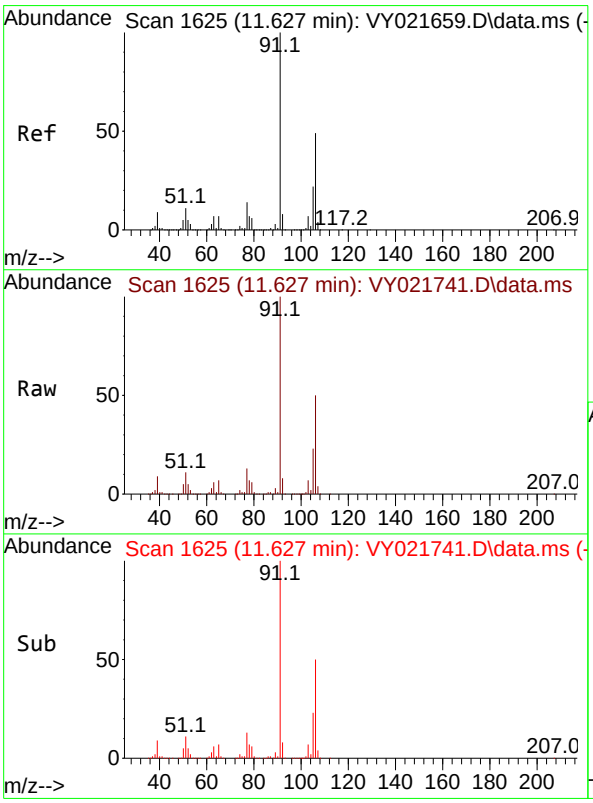
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

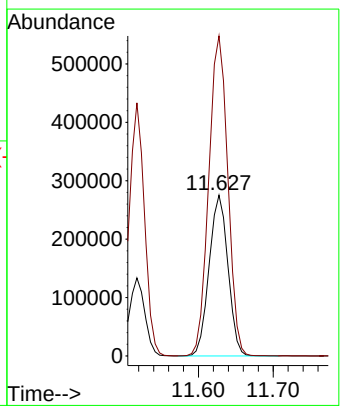
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

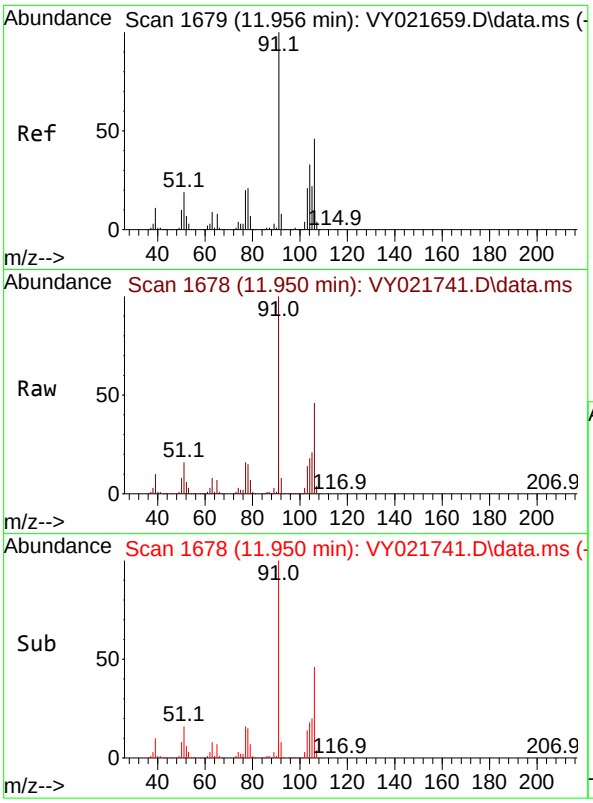


#68
m/p-Xylenes
Concen: 103.984 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:106 Resp: 482187

Ion	Ratio	Lower	Upper
106	100		
91	201.6	162.4	243.6

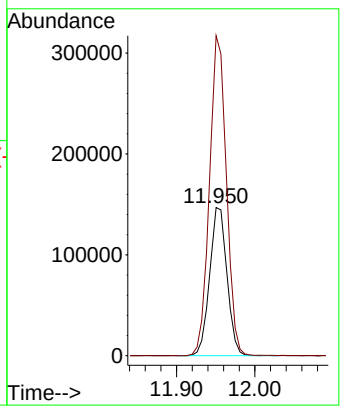




#69
o-Xylene
Concen: 52.665 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:106 Resp: 22542

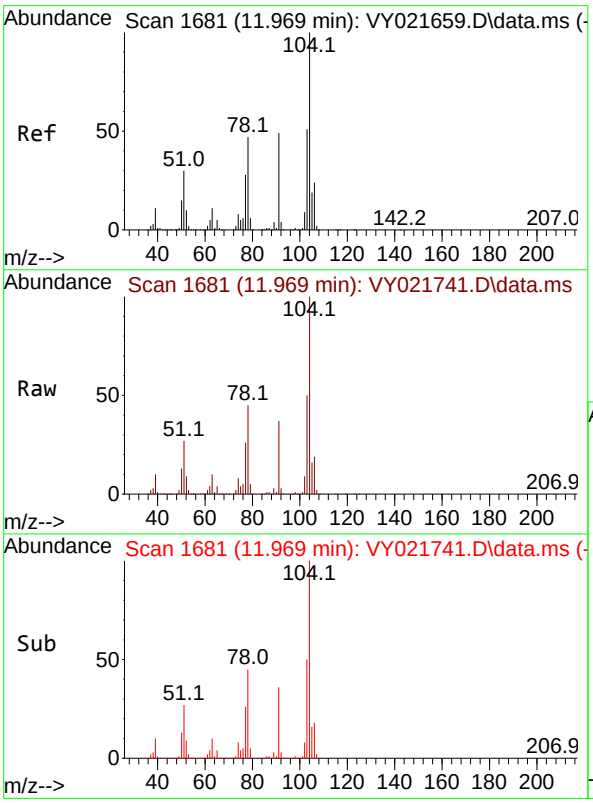
Ion	Ratio	Lower	Upper
106	100		
91	211.5	106.7	319.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

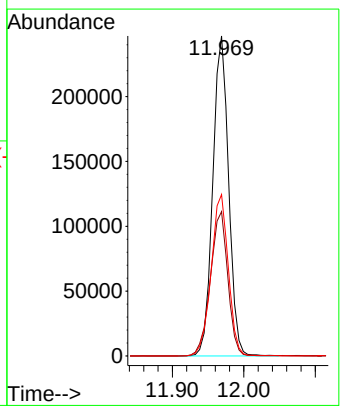
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

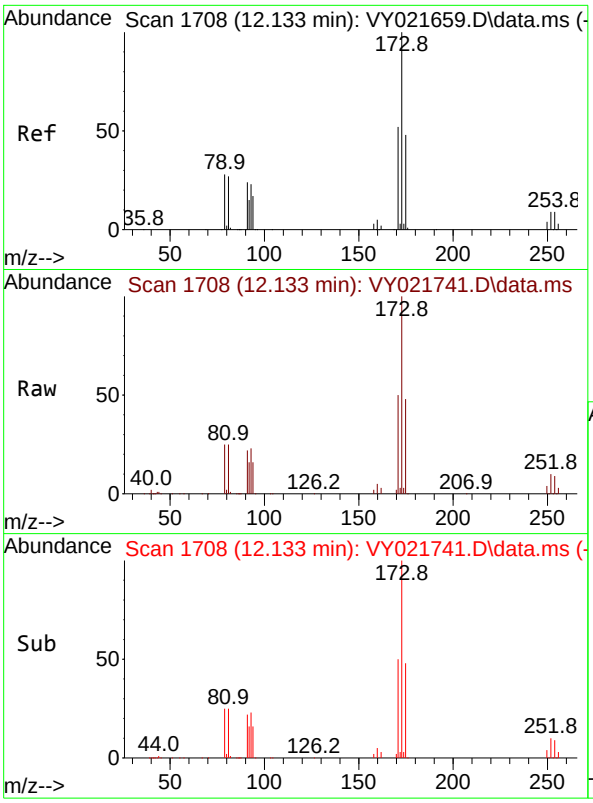


#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:104 Resp: 379194

Ion	Ratio	Lower	Upper
104	100		
78	49.6	40.8	61.2
103	54.7	44.2	66.2

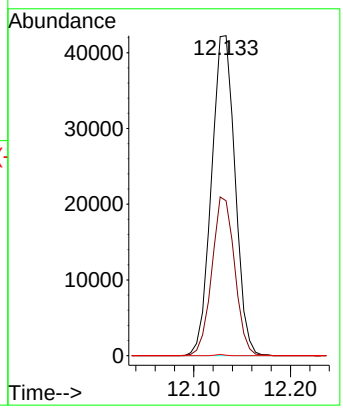




#71
Bromoform
Concen: 50.103 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

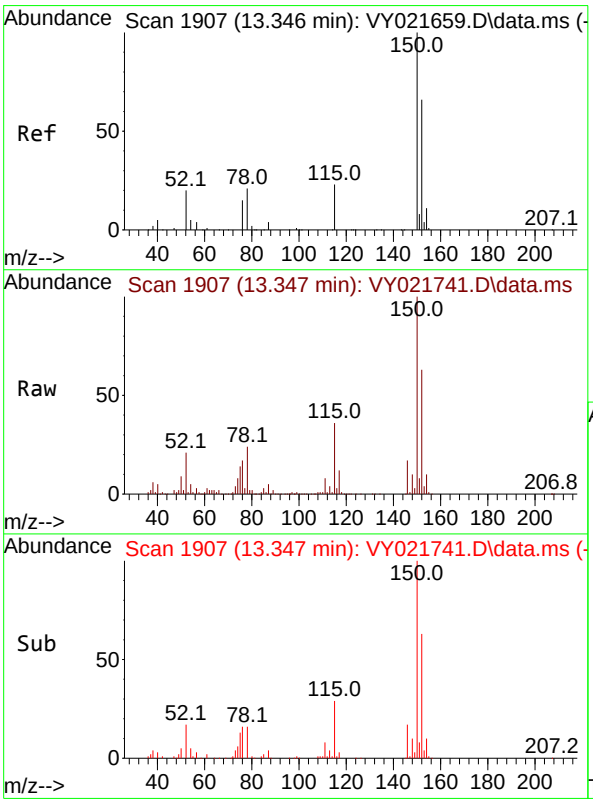
Tgt Ion:173 Resp: 7160

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	73.0
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

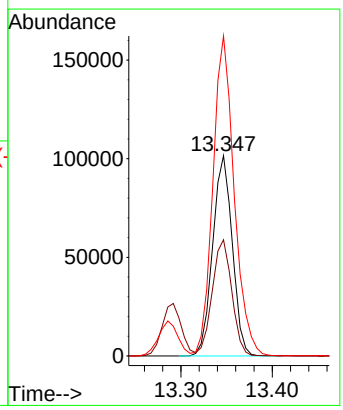
Manual Integrations
APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

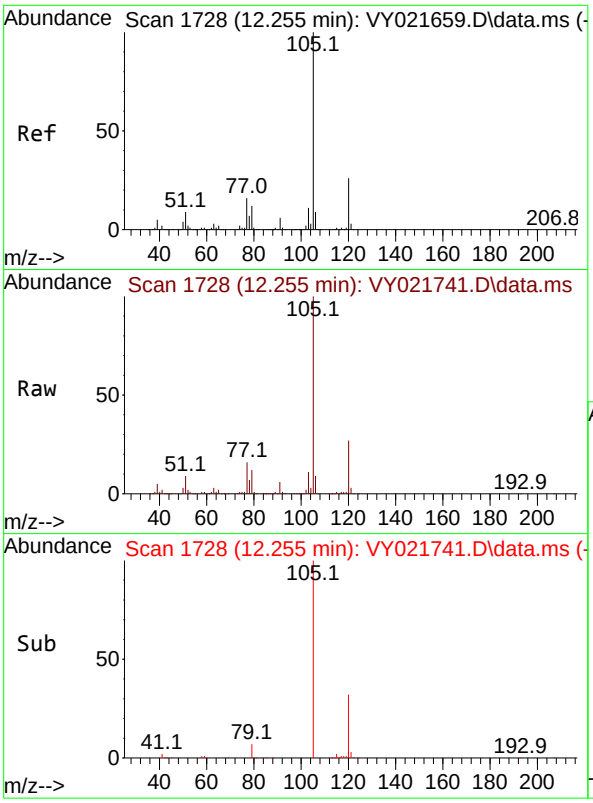


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:152 Resp: 151305

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.8	86.5
150	173.2	0.0	348.4

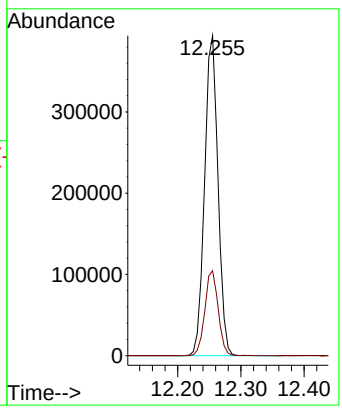




#73
Isopropylbenzene
Concen: 51.650 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:105 Resp: 58044

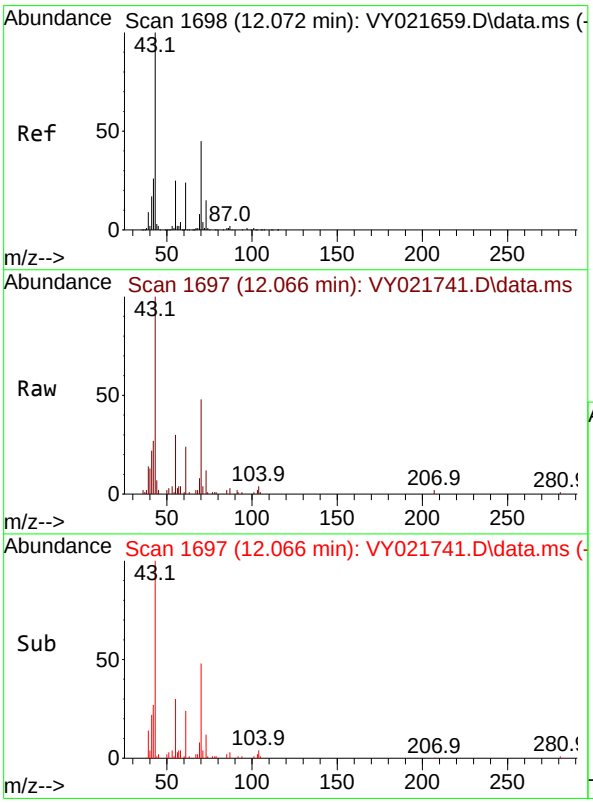
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

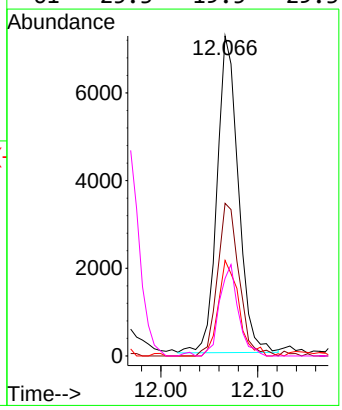
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

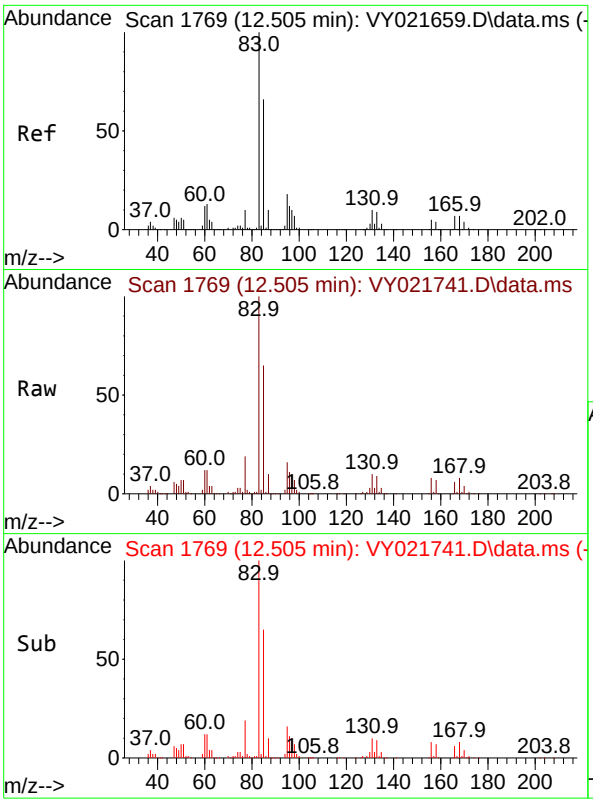


#74
N-amyl acetate
Concen: 4.184 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 43 Resp: 11036

Ion	Ratio	Lower	Upper
43	100		
70	48.5	34.7	52.1
55	28.8	21.2	31.8
61	25.3	19.5	29.3

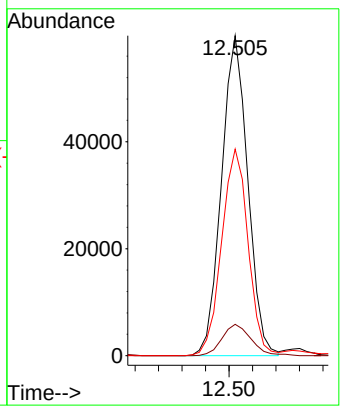




#75
1,1,2,2-Tetrachloroethane
Concen: 46.018 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 83 Resp: 9297

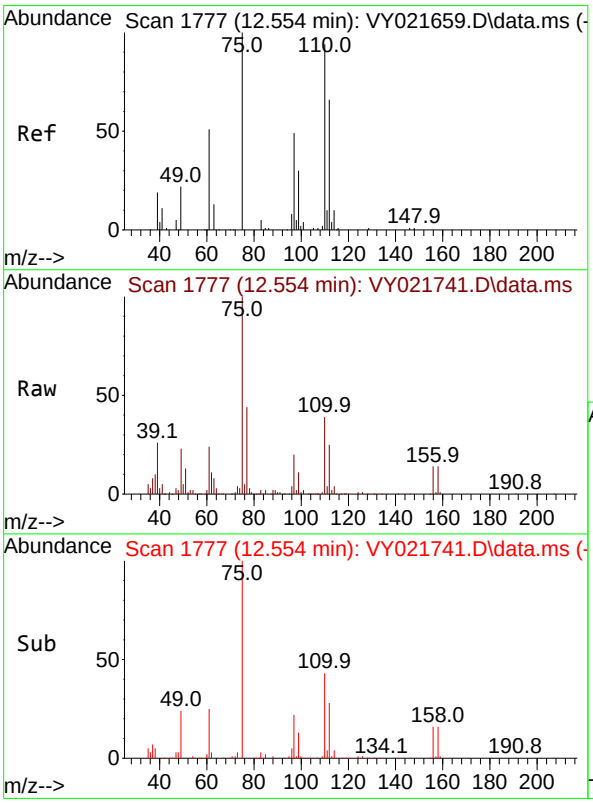
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.1	15.3
85	64.9	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

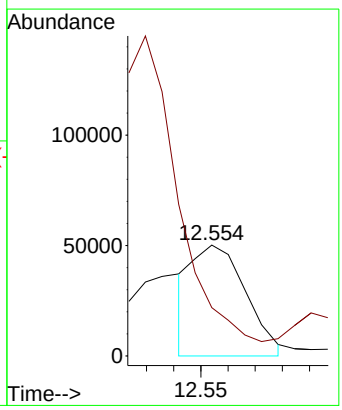
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

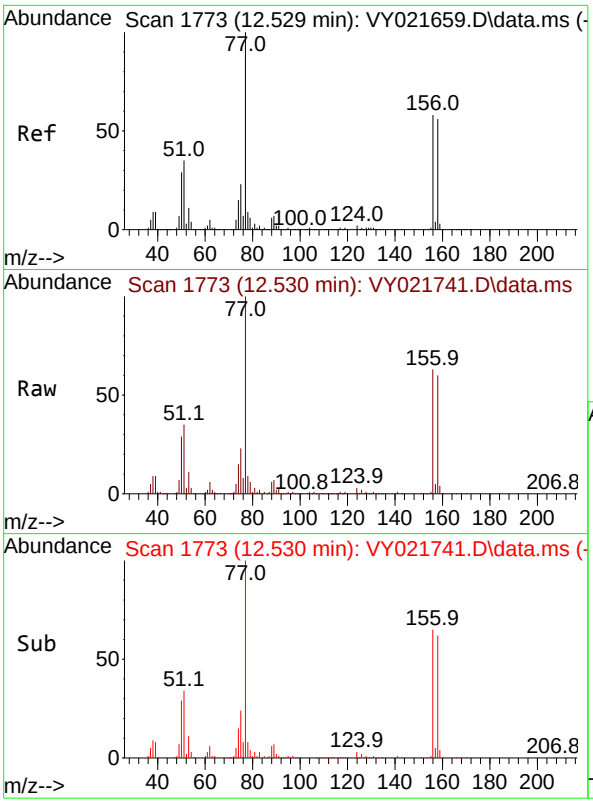


#76
1,2,3-Trichloropropane
Concen: 46.211 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 75 Resp: 69309

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

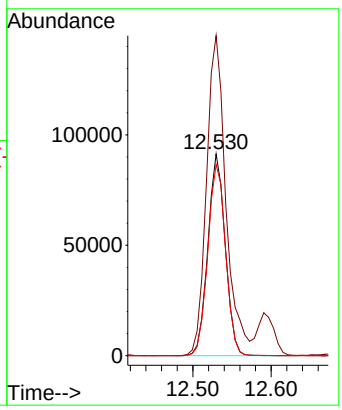




#77
Bromobenzene
Concen: 51.916 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:156 Resp: 14008

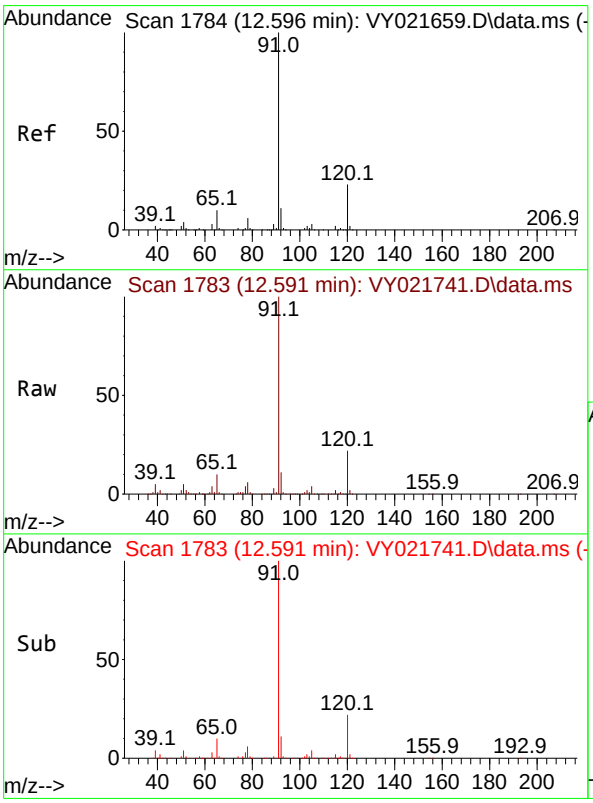
Ion	Ratio	Lower	Upper
156	100		
77	178.0	92.8	278.3
158	97.2	48.5	145.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

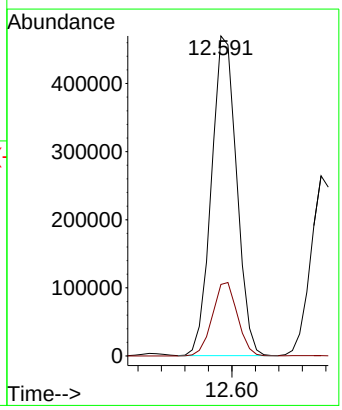
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

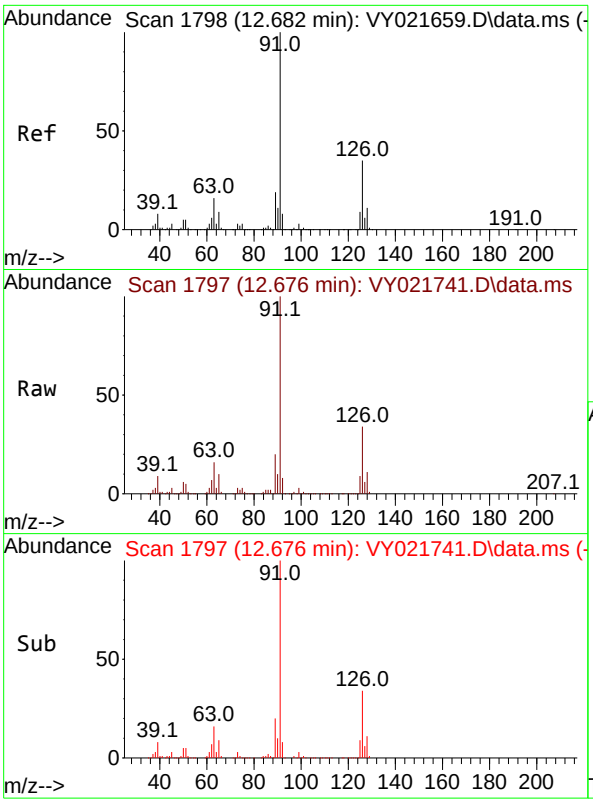


#78
n-propylbenzene
Concen: 51.840 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 91 Resp: 700397

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.3	33.9





#79
2-Chlorotoluene
Concen: 51.527 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

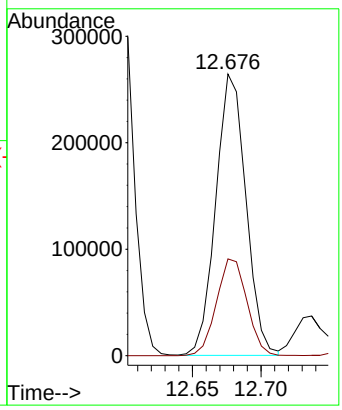
Tgt Ion: 91 Resp: 40434

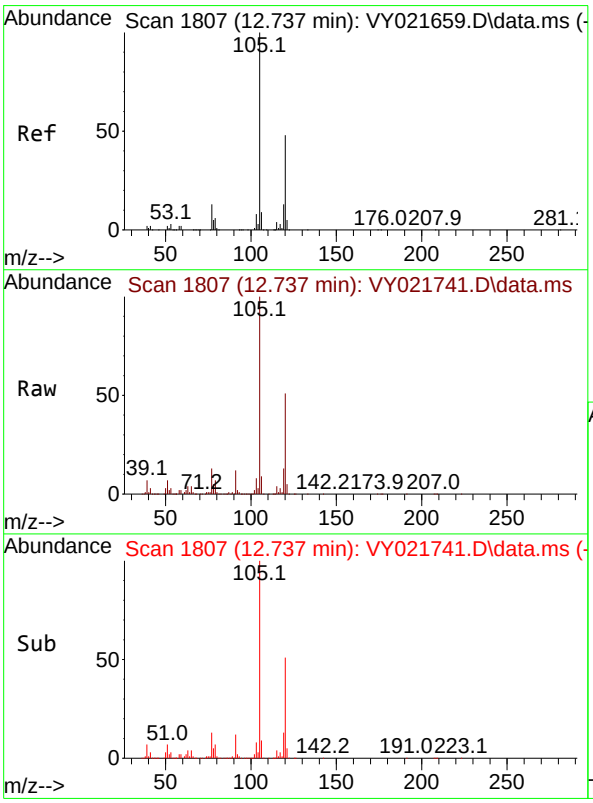
Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	52.0

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

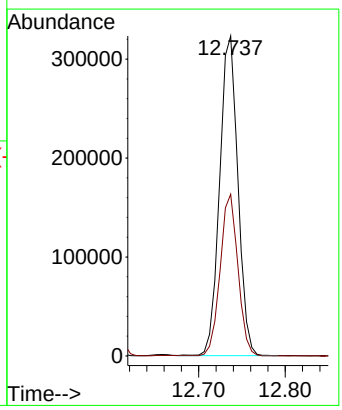


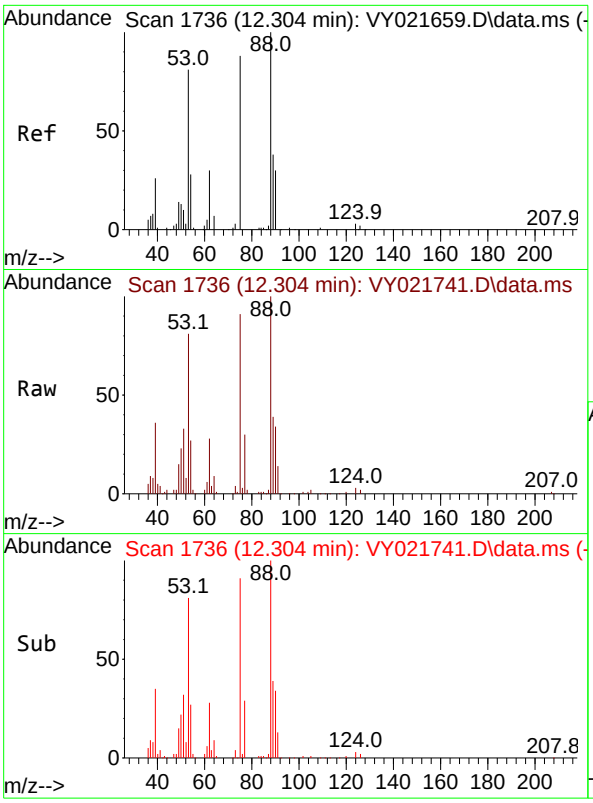


#80
1,3,5-Trimethylbenzene
Concen: 51.425 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:105 Resp: 472320

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.5	73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 46.557 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

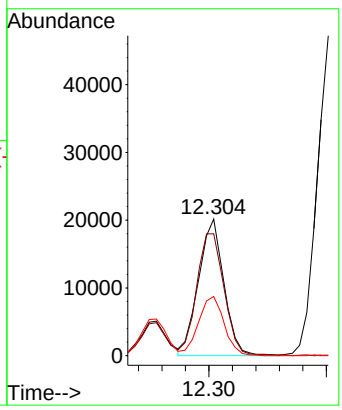
Tgt Ion: 75 Resp: 3030

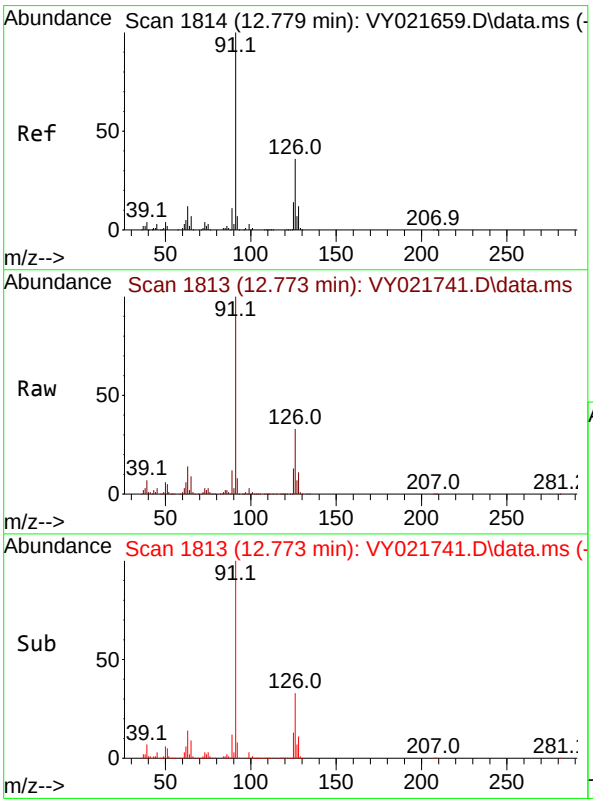
Ion	Ratio	Lower	Upper
75	100		
53	96.5	76.1	114.1
89	43.7	36.2	54.4

Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

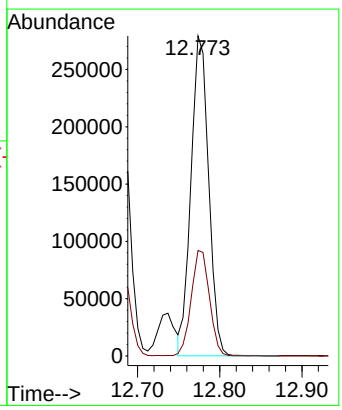


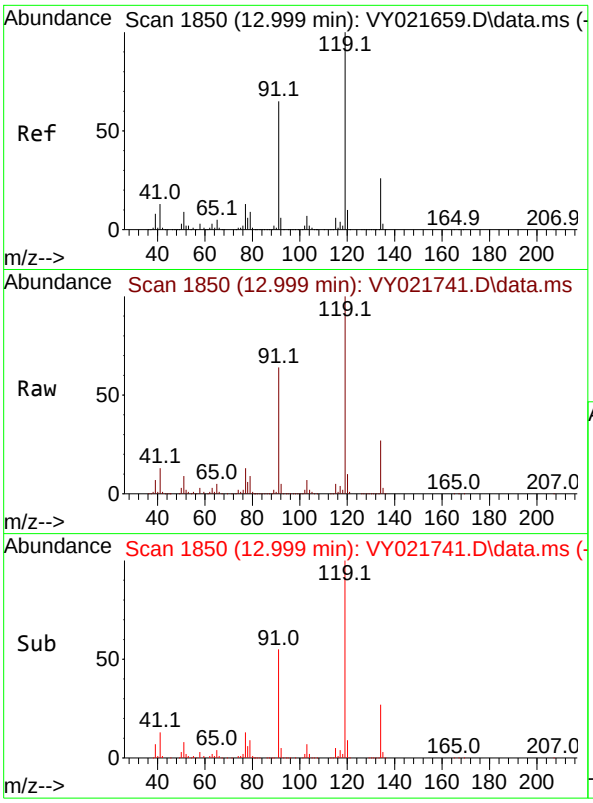


#82
4-Chlorotoluene
Concen: 50.901 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 91 Resp: 416429

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.0	50.9

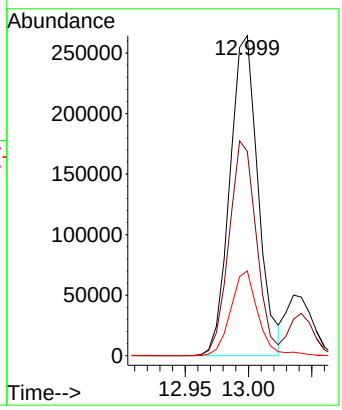




#83
tert-Butylbenzene
Concen: 50.243 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:119 Resp: 41102

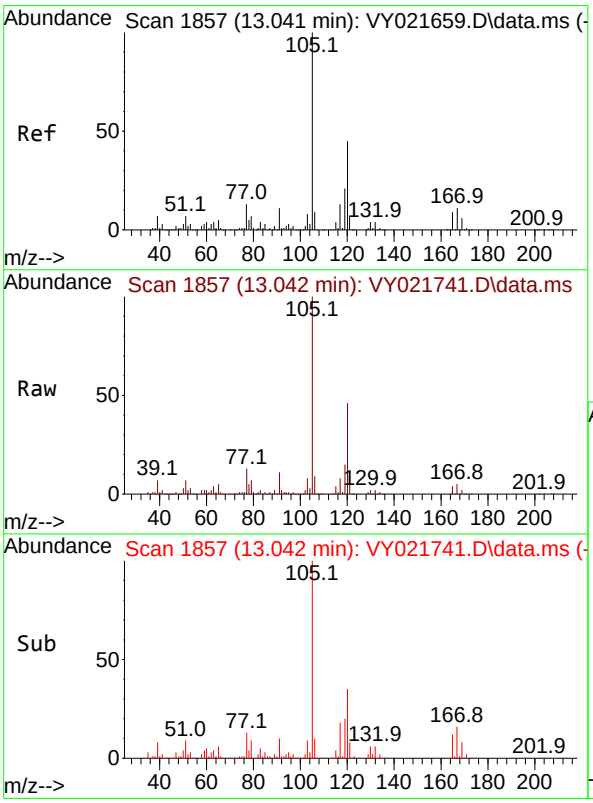
Ion	Ratio	Lower	Upper
119	100		
91	65.2	32.6	97.7
134	25.6	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

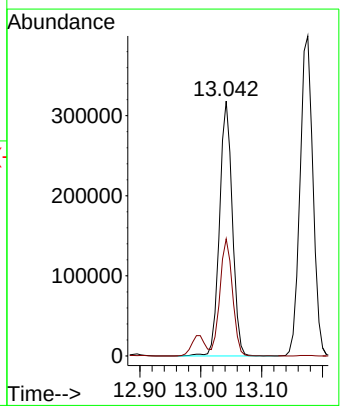
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

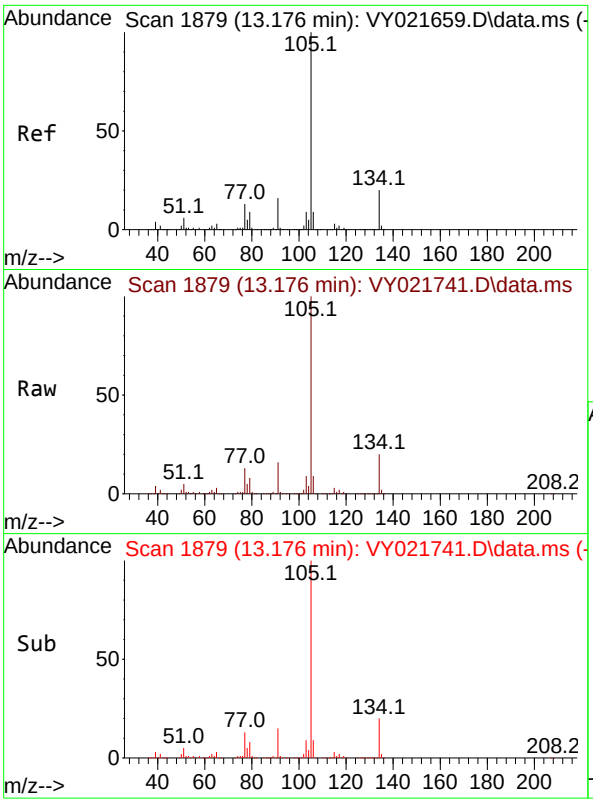


#84
1,2,4-Trimethylbenzene
Concen: 51.214 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:105 Resp: 464906

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.7	68.1

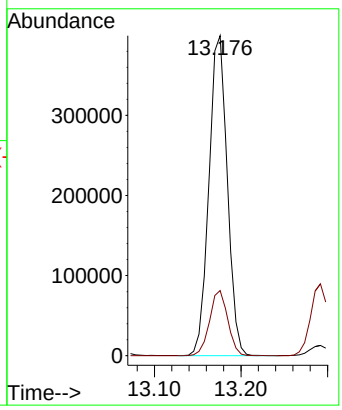




#85
sec-Butylbenzene
Concen: 49.164 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:105 Resp: 58777

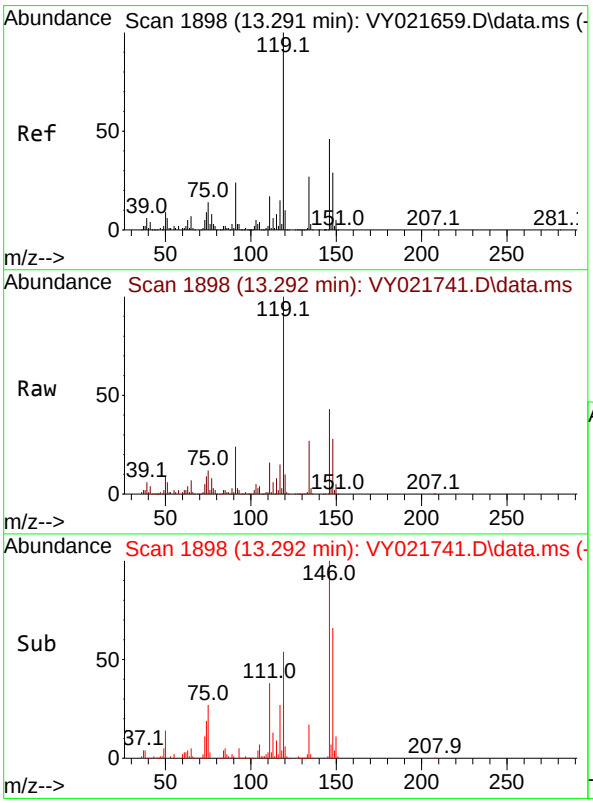
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.1	30.1



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

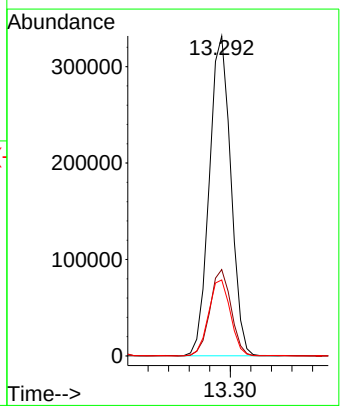
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

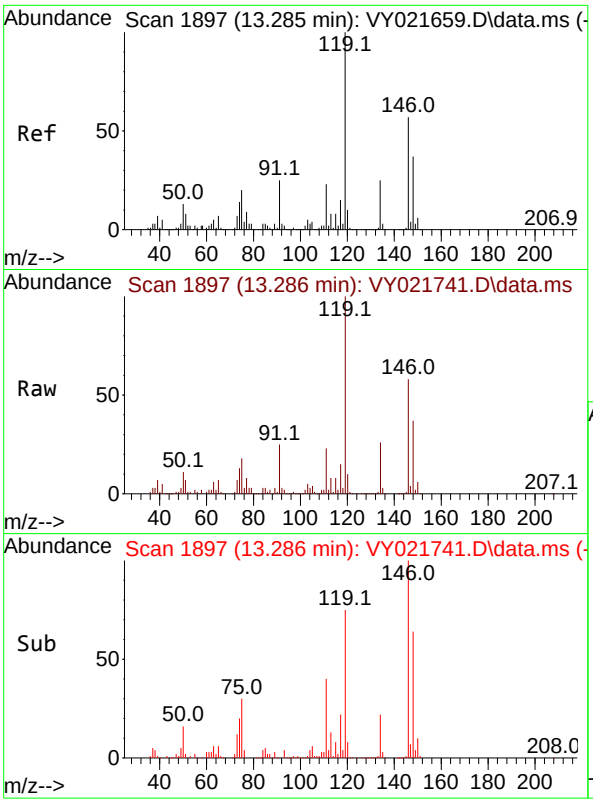


#86
p-Isopropyltoluene
Concen: 48.691 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:119 Resp: 481125

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.2	39.5
91	24.1	12.0	36.0

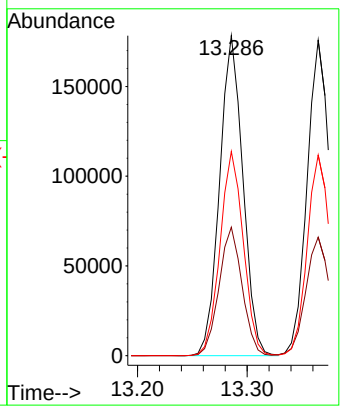




#87
1,3-Dichlorobenzene
Concen: 49.596 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:146 Resp: 26365

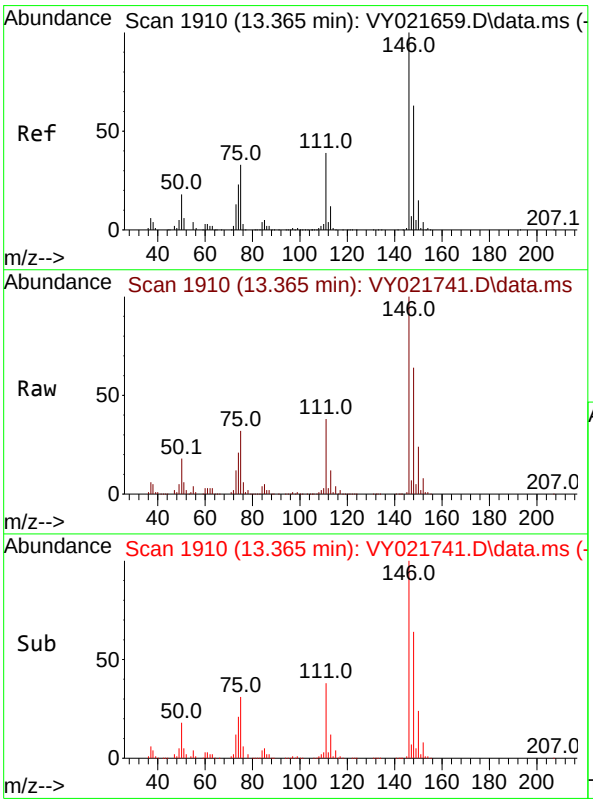
Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.0	60.0
148	63.8	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

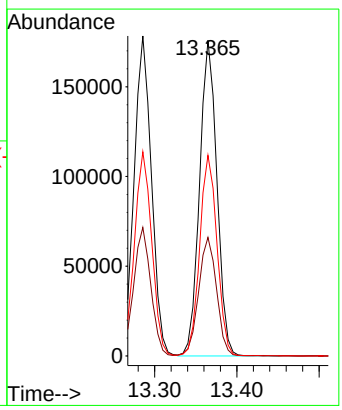
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

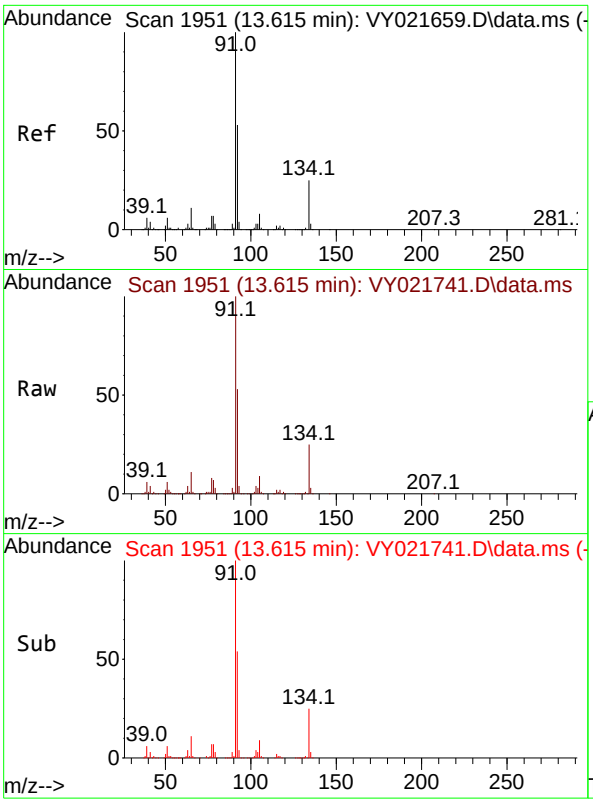


#88
1,4-Dichlorobenzene
Concen: 49.095 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:146 Resp: 257857

Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.1	57.1
148	63.6	31.5	94.5

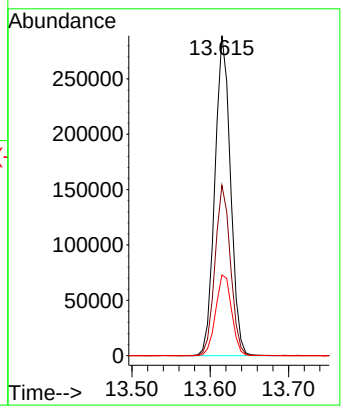




#89
n-Butylbenzene
Concen: 43.827 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 91 Resp: 40050

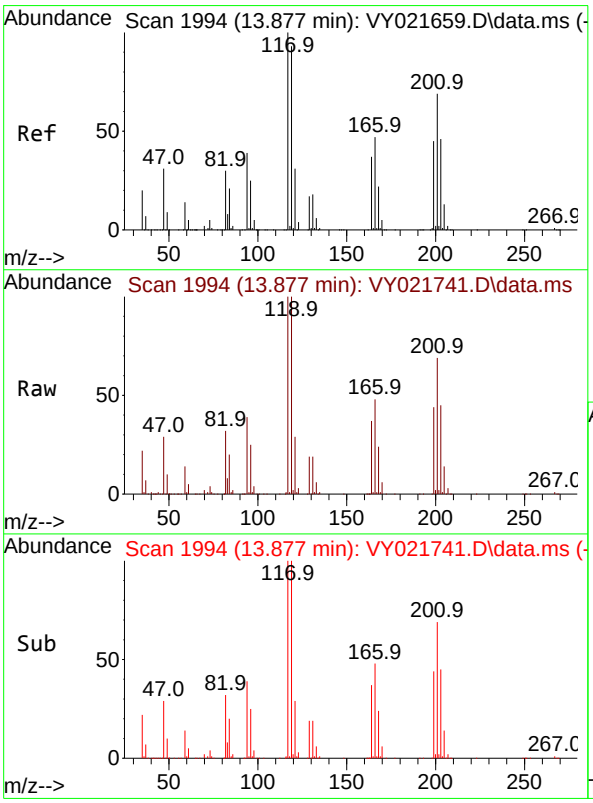
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.4	79.2
134	26.0	12.8	38.4



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

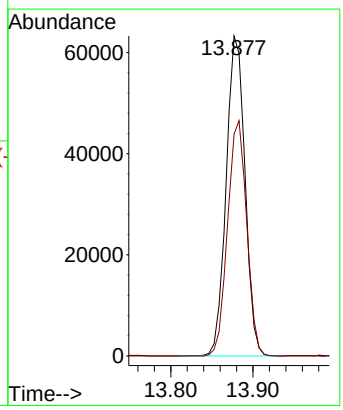
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

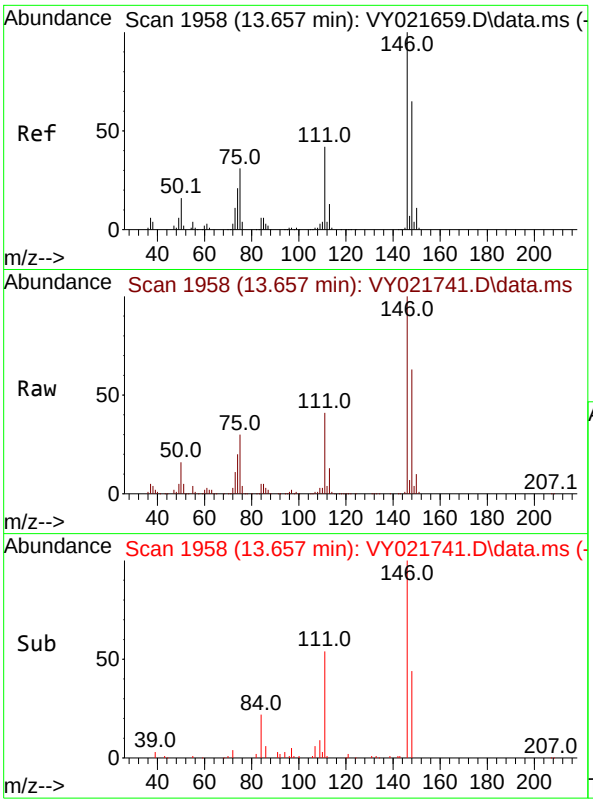


#90
Hexachloroethane
Concen: 46.617 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:117 Resp: 100941

Ion	Ratio	Lower	Upper
117	100		
201	74.6	37.4	112.1

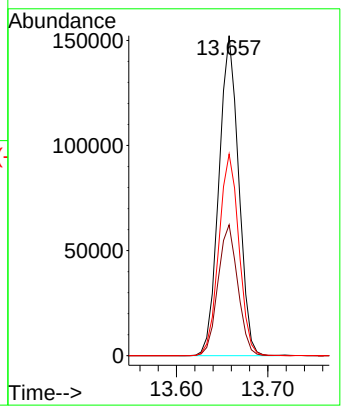




#91
1,2-Dichlorobenzene
Concen: 49.531 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:146 Resp: 22921

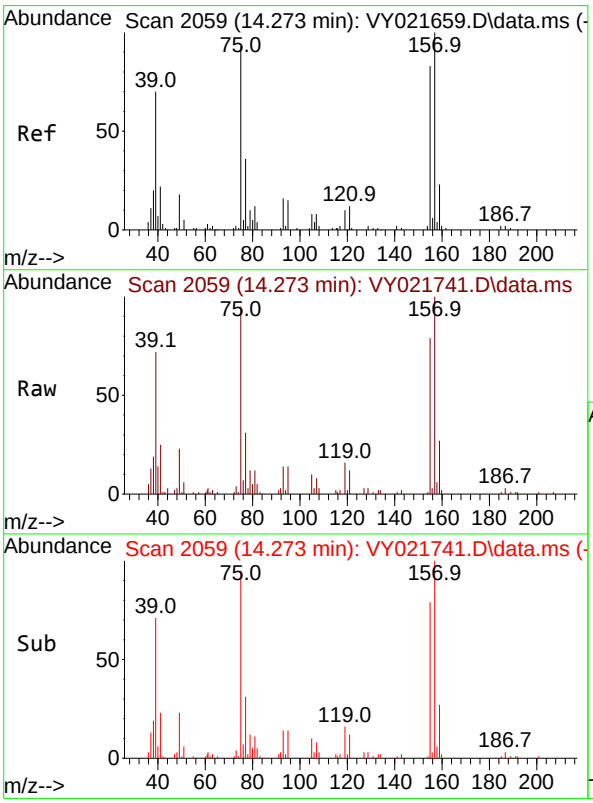
Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.7	62.1
148	64.0	32.3	96.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

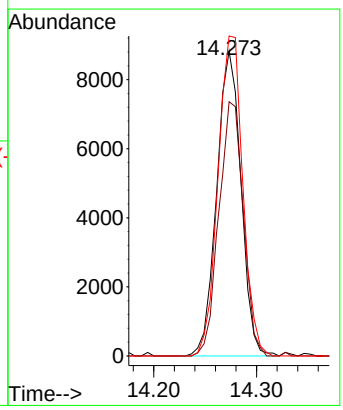
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

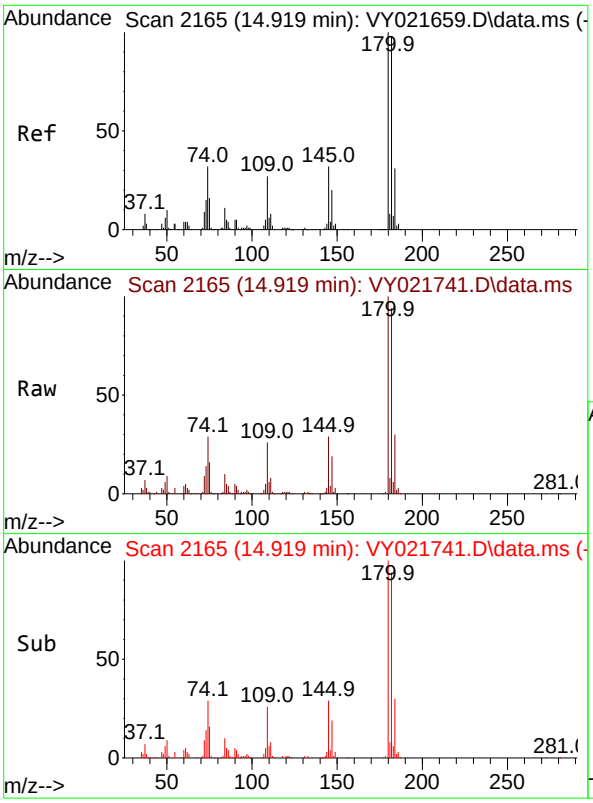


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.204 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion: 75 Resp: 14469

Ion	Ratio	Lower	Upper
75	100		
155	83.9	43.0	128.8
157	107.0	54.0	162.0

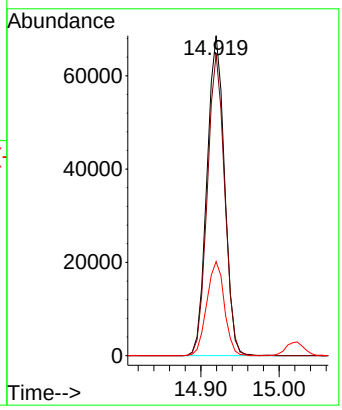




#93
1,2,4-Trichlorobenzene
Concen: 42.458 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:180 Resp: 10655

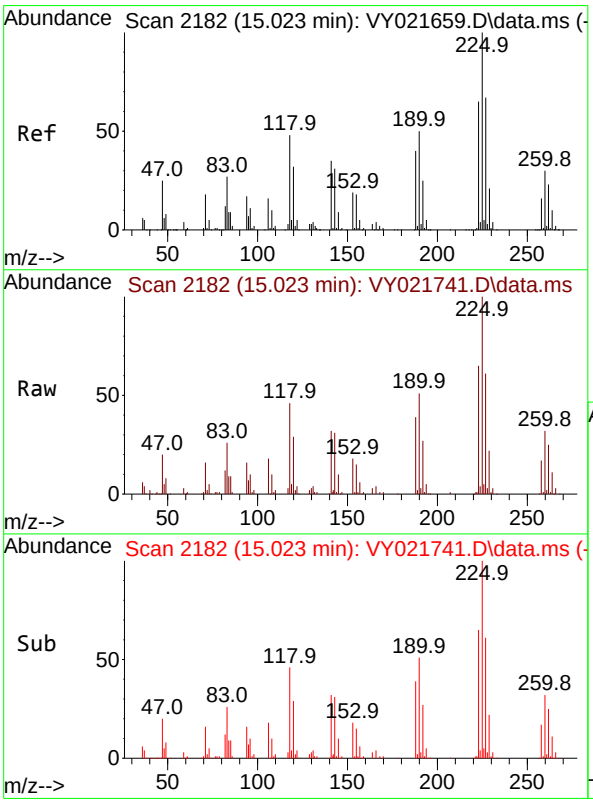
Ion	Ratio	Lower	Upper
180	100		
182	92.8	47.5	142.6
145	29.5	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

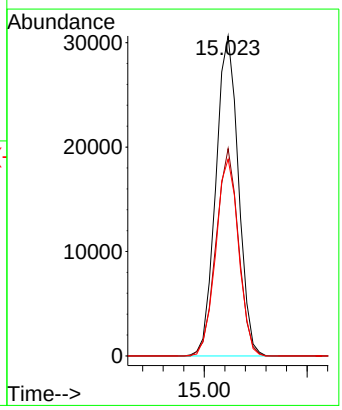
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

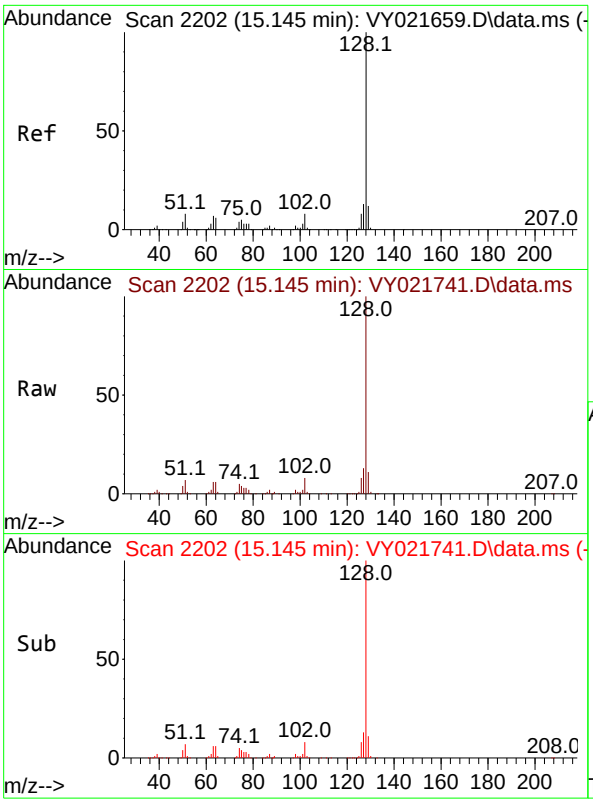


#94
Hexachlorobutadiene
Concen: 29.714 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:225 Resp: 46570

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.9	95.7
227	62.2	32.4	97.0

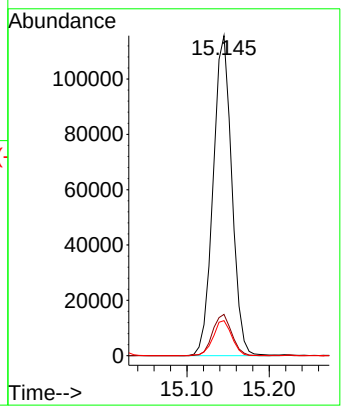




#95
Naphthalene
Concen: 43.851 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:128 Resp: 18240

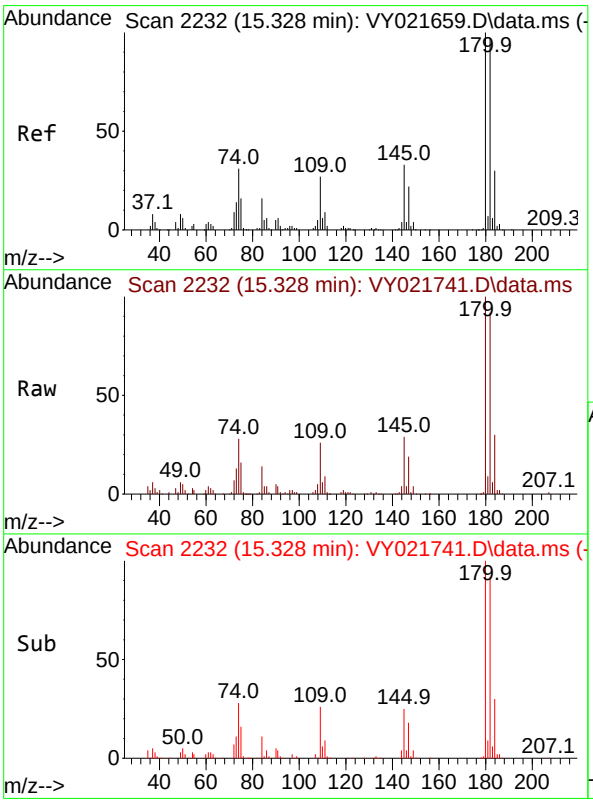
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.8	16.2
129	11.0	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
APPROVED

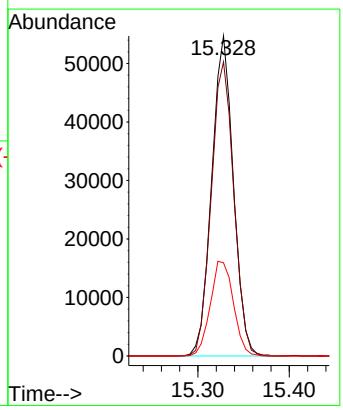
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.078 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021741.D
Acq: 01 Apr 2025 15:05

Tgt Ion:180 Resp: 90048

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.5
145	31.5	15.9	47.7



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

Manual Integration Report

Sequence:	vy032725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021656.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC005	VY021656.D	Methacrylonitrile	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	Methacrylonitrile	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC020	VY021658.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:20 AM	MMDadoda	3/28/2025 9:32:41 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	Methacrylonitrile	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICC100	VY021660.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:15 AM	MMDadoda	3/28/2025 9:32:49 AM	Peak Integrated by Software
VSTDICC150	VY021661.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:43 AM	MMDadoda	3/28/2025 9:32:53 AM	Peak Integrated by Software
VSTDICV050	VY021663.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:11 AM	MMDadoda	3/28/2025 9:32:04 AM	Peak Integrated by Software
VSTDCCC050	VY021680.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:58 AM	MMDadoda	3/28/2025 9:32:15 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY032825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021682.D	1,2,3-Trichloropropane	MMDadoda	3/31/2025 9:55:58 AM	SAM	3/31/2025 9:57:16 AM	Peak Integrated by Software
VY0328SBS01	VY021684.D	1,2,3-Trichloropropane	MMDadoda	3/31/2025 9:55:59 AM	SAM	3/31/2025 9:57:18 AM	Peak Integrated by Software
VY0328SBS01	VY021684.D	Methacrylonitrile	MMDadoda	3/31/2025 9:55:59 AM	SAM	3/31/2025 9:57:18 AM	Peak Integrated by Software
VSTDCCC050	VY021708.D	1,2,3-Trichloropropane	MMDadoda	3/31/2025 9:56:03 AM	SAM	3/31/2025 9:57:22 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vy040125	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021731.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:13:07 PM	MMDadoda	4/2/2025 2:15:01 PM	Peak Integrated by Software
VY0401SBS01	VY021733.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:13:08 PM	MMDadoda	4/2/2025 2:15:03 PM	Peak Integrated by Software
VY0401SBS01	VY021733.D	Methacrylonitrile	Amit	4/2/2025 2:13:08 PM	MMDadoda	4/2/2025 2:15:03 PM	Peak Integrated by Software
Q1664-02MS	VY021740.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:13:11 PM	MMDadoda	4/2/2025 2:15:06 PM	Peak Integrated by Software
Q1664-03MSD	VY021741.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:13:13 PM	MMDadoda	4/2/2025 2:15:08 PM	Peak Integrated by Software
Q1664-03MSD	VY021741.D	Methacrylonitrile	Amit	4/2/2025 2:13:13 PM	MMDadoda	4/2/2025 2:15:08 PM	Peak Integrated by Software
VSTDCCC050	VY021746.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:13:14 PM	MMDadoda	4/2/2025 2:15:09 PM	Peak Integrated by Software

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 # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM				
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021655.D	27 Mar 2025 09:23	SY/MD	Ok
2	VSTDICC005	VY021656.D	27 Mar 2025 10:08	SY/MD	Ok,M
3	VSTDICC010	VY021657.D	27 Mar 2025 10:31	SY/MD	Ok,M
4	VSTDICC020	VY021658.D	27 Mar 2025 10:54	SY/MD	Ok,M
5	VSTDICCC050	VY021659.D	27 Mar 2025 11:16	SY/MD	Ok,M
6	VSTDICC100	VY021660.D	27 Mar 2025 11:39	SY/MD	Ok,M
7	VSTDICC150	VY021661.D	27 Mar 2025 12:02	SY/MD	Ok,M
8	VIBLK	VY021662.D	27 Mar 2025 12:35	SY/MD	Ok
9	VSTDICV050	VY021663.D	27 Mar 2025 13:15	SY/MD	Ok,M
10	VY0327SBL01	VY021664.D	27 Mar 2025 13:59	SY/MD	Ok
11	VY0327SBS01	VY021665.D	27 Mar 2025 14:38	SY/MD	Ok,M
12	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00	SY/MD	Ok,M
13	Q1661-02	VY021667.D	27 Mar 2025 15:24	SY/MD	Not Ok
14	Q1645-03RE	VY021668.D	27 Mar 2025 15:48	SY/MD	Confirms
15	Q1662-03	VY021669.D	27 Mar 2025 16:11	SY/MD	Not Ok
16	Q1662-07	VY021670.D	27 Mar 2025 16:35	SY/MD	ReRun
17	Q1661-02	VY021671.D	27 Mar 2025 16:58	SY/MD	Not Ok
18	Q1650-02	VY021672.D	27 Mar 2025 17:21	SY/MD	Not Ok
19	Q1654-01	VY021673.D	27 Mar 2025 17:45	SY/MD	Ok
20	Q1656-01	VY021674.D	27 Mar 2025 18:08	SY/MD	Not Ok
21	Q1648-09	VY021675.D	27 Mar 2025 18:32	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 # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM				
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1648-07	VY021676.D	27 Mar 2025 18:55	SY/MD	Ok
23	Q1648-05	VY021677.D	27 Mar 2025 19:19	SY/MD	Ok
24	Q1648-01	VY021678.D	27 Mar 2025 19:42	SY/MD	Ok
25	Q1648-03	VY021679.D	27 Mar 2025 20:05	SY/MD	Ok
26	VSTDCCC050	VY021680.D	27 Mar 2025 20:28	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 # VY032825

Review By	Mahesh Dadoda	Review On	3/31/2025 9:56:41 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/31/2025 9:57:25 AM				
SubDirectory	VY032825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133522
Initial Calibration Stds	
CCC	VP133520,VP133521
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021681.D	28 Mar 2025 10:11	SY/MD	Ok
2	VSTDCCC050	VY021682.D	28 Mar 2025 10:42	SY/MD	Ok,M
3	VY0328SBL01	VY021683.D	28 Mar 2025 11:21	SY/MD	Ok
4	VY0328SBS01	VY021684.D	28 Mar 2025 11:55	SY/MD	Ok,M
5	VY0328SBSD01	VY021685.D	28 Mar 2025 12:24	SY/MD	Ok,M
6	Q1662-07	VY021686.D	28 Mar 2025 12:54	SY/MD	Ok
7	Q1656-01	VY021687.D	28 Mar 2025 13:17	SY/MD	Ok
8	Q1637-03	VY021688.D	28 Mar 2025 13:41	SY/MD	Not Ok
9	IBLK	VY021689.D	28 Mar 2025 14:04	SY/MD	Not Ok
10	Q1648-11	VY021690.D	28 Mar 2025 14:28	SY/MD	Ok
11	Q1648-13	VY021691.D	28 Mar 2025 14:51	SY/MD	Ok
12	Q1650-02	VY021692.D	28 Mar 2025 15:14	SY/MD	Ok
13	Q1654-01	VY021693.D	28 Mar 2025 15:38	SY/MD	Not Ok
14	Q1662-03	VY021694.D	28 Mar 2025 16:01	SY/MD	Ok
15	Q1664-01	VY021695.D	28 Mar 2025 16:25	SY/MD	Ok
16	Q1664-02MS	VY021696.D	28 Mar 2025 16:48	SY/MD	Not Ok
17	Q1664-03MSD	VY021697.D	28 Mar 2025 17:12	SY/MD	Not Ok
18	Q1664-07	VY021698.D	28 Mar 2025 17:35	SY/MD	Ok
19	Q1664-09	VY021699.D	28 Mar 2025 17:58	SY/MD	Ok
20	Q1664-11	VY021700.D	28 Mar 2025 18:22	SY/MD	Ok
21	Q1664-13	VY021701.D	28 Mar 2025 18:45	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 # VY032825

Review By	Mahesh Dadoda	Review On	3/31/2025 9:56:41 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/31/2025 9:57:25 AM		
SubDirectory	VY032825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133522
Initial Calibration Stds	
CCC	VP133520,VP133521
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1664-15	VY021702.D	28 Mar 2025 19:09	SY/MD	Ok
23	Q1664-17	VY021703.D	28 Mar 2025 19:32	SY/MD	Ok
24	Q1664-19	VY021704.D	28 Mar 2025 19:55	SY/MD	Ok
25	Q1664-21	VY021705.D	28 Mar 2025 20:19	SY/MD	Ok
26	Q1643-01	VY021706.D	28 Mar 2025 20:42	SY/MD	Ok
27	Q1657-01	VY021707.D	28 Mar 2025 21:06	SY/MD	ReRun
28	VSTDCCC050	VY021708.D	28 Mar 2025 21:28	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 # VY040125

Review By	Amit Patel	Review On	4/2/2025 2:13:19 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/2/2025 2:15:14 PM				
SubDirectory	VY040125	HP Acquire Method	MSVOA_Y		HP Processing Method	82y032725s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP133555
Initial Calibration Stds	
CCC	VP133556,VP133557
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021730.D	01 Apr 2025 09:35	SY/MD	Ok
2	VSTDCCC050	VY021731.D	01 Apr 2025 10:13	SY/MD	Ok,M
3	VY0401SBL01	VY021732.D	01 Apr 2025 10:52	SY/MD	Ok
4	VY0401SBS01	VY021733.D	01 Apr 2025 11:30	SY/MD	Ok,M
5	VY0401SBSD01	VY021734.D	01 Apr 2025 11:52	SY/MD	Ok,M
6	Q1681-03	VY021735.D	01 Apr 2025 12:36	SY/MD	Ok
7	Q1680-03	VY021736.D	01 Apr 2025 12:59	SY/MD	Ok
8	Q1675-09	VY021737.D	01 Apr 2025 13:22	SY/MD	Ok
9	Q1675-12	VY021738.D	01 Apr 2025 13:46	SY/MD	Ok
10	IBLK	VY021739.D	01 Apr 2025 14:19	SY/MD	Ok
11	Q1664-02MS	VY021740.D	01 Apr 2025 14:42	SY/MD	Ok,M
12	Q1664-03MSD	VY021741.D	01 Apr 2025 15:05	SY/MD	Ok,M
13	IBLK	VY021742.D	01 Apr 2025 15:28	SY/MD	Ok
14	Q1687-01	VY021743.D	01 Apr 2025 15:52	SY/MD	Not Ok
15	Q1688-01	VY021744.D	01 Apr 2025 16:15	SY/MD	Not Ok
16	Q1692-01	VY021745.D	01 Apr 2025 16:38	SY/MD	ReRun
17	VSTDCCC050	VY021746.D	01 Apr 2025 17:01	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 # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021655.D	27 Mar 2025 09:23		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021656.D	27 Mar 2025 10:08		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021657.D	27 Mar 2025 10:31		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021658.D	27 Mar 2025 10:54	Comp.#20 is on Linear Regression	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021659.D	27 Mar 2025 11:16		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021660.D	27 Mar 2025 11:39		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021661.D	27 Mar 2025 12:02		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021662.D	27 Mar 2025 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY032725	VY021663.D	27 Mar 2025 13:15		SY/MD	Ok,M
10	VY0327SBL01	VY0327SBL01	VY021664.D	27 Mar 2025 13:59		SY/MD	Ok
11	VY0327SBS01	VY0327SBS01	VY021665.D	27 Mar 2025 14:38		SY/MD	Ok,M
12	VY0327SBSD01	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00		SY/MD	Ok,M
13	Q1661-02	351	VY021667.D	27 Mar 2025 15:24	vial-B Not purge	SY/MD	Not Ok
14	Q1645-03RE	TP-4-VOCRE	VY021668.D	27 Mar 2025 15:48	vial-B Internal Standard Fail	SY/MD	Confirms
15	Q1662-03	TP-6-VOC	VY021669.D	27 Mar 2025 16:11	vial-A NOT PURGE	SY/MD	Not Ok
16	Q1662-07	TP-7-VOC	VY021670.D	27 Mar 2025 16:35	vial-A Internal Standard Fail	SY/MD	ReRun
17	Q1661-02	351	VY021671.D	27 Mar 2025 16:58	vial-A NOT PURGE	SY/MD	Not 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 # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1650-02	STOCK-PILE-BIN2	VY021672.D	27 Mar 2025 17:21	vial-A NOT PURGE	SY/MD	Not Ok
19	Q1654-01	RT3407	VY021673.D	27 Mar 2025 17:45	vial-A Internal Standard Fail	SY/MD	Ok
20	Q1656-01	VNJ239	VY021674.D	27 Mar 2025 18:08	vial-A NOT PURGE	SY/MD	Not Ok
21	Q1648-09	TP-7	VY021675.D	27 Mar 2025 18:32	vial-A	SY/MD	Ok
22	Q1648-07	TP-6	VY021676.D	27 Mar 2025 18:55	vial-A	SY/MD	Ok
23	Q1648-05	TP-3	VY021677.D	27 Mar 2025 19:19	vial-A	SY/MD	Ok
24	Q1648-01	TP-4	VY021678.D	27 Mar 2025 19:42	vial-A	SY/MD	Ok
25	Q1648-03	TP-5	VY021679.D	27 Mar 2025 20:05	vial-A	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY021680.D	27 Mar 2025 20:28		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 # VY032825

Review By	Mahesh Dadoda	Review On	3/31/2025 9:56:41 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/31/2025 9:57:25 AM		
SubDirectory	VY032825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133522
Initial Calibration Stds	
CCC	VP133520,VP133521
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021681.D	28 Mar 2025 10:11		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021682.D	28 Mar 2025 10:42		SY/MD	Ok,M
3	VY0328SBL01	VY0328SBL01	VY021683.D	28 Mar 2025 11:21		SY/MD	Ok
4	VY0328SBS01	VY0328SBS01	VY021684.D	28 Mar 2025 11:55		SY/MD	Ok,M
5	VY0328SBSD01	VY0328SBSD01	VY021685.D	28 Mar 2025 12:24		SY/MD	Ok,M
6	Q1662-07	TP-7-VOC	VY021686.D	28 Mar 2025 12:54	vial-B	SY/MD	Ok
7	Q1656-01	VNJ239	VY021687.D	28 Mar 2025 13:17	vial-B ISTD Fail	SY/MD	Ok
8	Q1637-03	EO-02-032525	VY021688.D	28 Mar 2025 13:41	vial-B NOT PURGE	SY/MD	Not Ok
9	IBLK	IBLK	VY021689.D	28 Mar 2025 14:04	NOT PURGE	SY/MD	Not Ok
10	Q1648-11	TP-8	VY021690.D	28 Mar 2025 14:28	vial-A	SY/MD	Ok
11	Q1648-13	TP-2	VY021691.D	28 Mar 2025 14:51	vial-A	SY/MD	Ok
12	Q1650-02	STOCK-PILE-BIN2	VY021692.D	28 Mar 2025 15:14	vial-B	SY/MD	Ok
13	Q1654-01	RT3407	VY021693.D	28 Mar 2025 15:38	vial-B NOT PURGE	SY/MD	Not Ok
14	Q1662-03	TP-6-VOC	VY021694.D	28 Mar 2025 16:01	vial-B	SY/MD	Ok
15	Q1664-01	P001-BBDGA-001-01	VY021695.D	28 Mar 2025 16:25	vial-A	SY/MD	Ok
16	Q1664-02MS	P001-BBDGA-001-01M	VY021696.D	28 Mar 2025 16:48	vial-A Not spiked	SY/MD	Not Ok
17	Q1664-03MSD	P001-BBDGA-001-01M	VY021697.D	28 Mar 2025 17:12	vial-A Not spiked; added MSD weight in logbook please check	SY/MD	Not 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 # VY032825

Review By	Mahesh Dadoda	Review On	3/31/2025 9:56:41 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/31/2025 9:57:25 AM		
SubDirectory	VY032825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133522
Initial Calibration Stds	
CCC	VP133520,VP133521
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1664-07	P001-BBDGA-001-02	VY021698.D	28 Mar 2025 17:35	vial-A	SY/MD	Ok
19	Q1664-09	P001-BBDGA-002-01	VY021699.D	28 Mar 2025 17:58	vial-A	SY/MD	Ok
20	Q1664-11	P001-BBDGA-003-01	VY021700.D	28 Mar 2025 18:22	vial-A	SY/MD	Ok
21	Q1664-13	P001-BBDGA-004-01	VY021701.D	28 Mar 2025 18:45	vial-A	SY/MD	Ok
22	Q1664-15	P001-BBDGA-005-01	VY021702.D	28 Mar 2025 19:09	vial-A	SY/MD	Ok
23	Q1664-17	P001-BBDGA-006-01	VY021703.D	28 Mar 2025 19:32	vial-A	SY/MD	Ok
24	Q1664-19	P001-BBDGA-007-01	VY021704.D	28 Mar 2025 19:55	vial-A	SY/MD	Ok
25	Q1664-21	P001-BBDGA-008-01	VY021705.D	28 Mar 2025 20:19	vial-A	SY/MD	Ok
26	Q1643-01	030825-A	VY021706.D	28 Mar 2025 20:42	vial-A	SY/MD	Ok
27	Q1657-01	72-11998	VY021707.D	28 Mar 2025 21:06	vial-A Internal Standard Fail	SY/MD	ReRun
28	VSTDCCC050	VSTDCCC050EC	VY021708.D	28 Mar 2025 21:28		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 # VY040125

Review By	Amit Patel	Review On	4/2/2025 2:13:19 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/2/2025 2:15:14 PM		
SubDirectory	VY040125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133555
Initial Calibration Stds	
CCC	VP133556,VP133557
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021730.D	01 Apr 2025 09:35		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021731.D	01 Apr 2025 10:13		SY/MD	Ok,M
3	VY0401SBL01	VY0401SBL01	VY021732.D	01 Apr 2025 10:52		SY/MD	Ok
4	VY0401SBS01	VY0401SBS01	VY021733.D	01 Apr 2025 11:30		SY/MD	Ok,M
5	VY0401SBSD01	VY0401SBSD01	VY021734.D	01 Apr 2025 11:52		SY/MD	Ok,M
6	Q1681-03	TP-12-VOC	VY021735.D	01 Apr 2025 12:36	vial-A	SY/MD	Ok
7	Q1680-03	TP-4-VOC	VY021736.D	01 Apr 2025 12:59	vial-A	SY/MD	Ok
8	Q1675-09	T3	VY021737.D	01 Apr 2025 13:22	vial-B	SY/MD	Ok
9	Q1675-12	T6	VY021738.D	01 Apr 2025 13:46	vial-A	SY/MD	Ok
10	IBLK	IBLK	VY021739.D	01 Apr 2025 14:19		SY/MD	Ok
11	Q1664-02MS	P001-BBDGA-001-01M	VY021740.D	01 Apr 2025 14:42	vial-B Internal Standard Fail	SY/MD	Ok,M
12	Q1664-03MSD	P001-BBDGA-001-01M	VY021741.D	01 Apr 2025 15:05	vial-B	SY/MD	Ok,M
13	IBLK	IBLK	VY021742.D	01 Apr 2025 15:28		SY/MD	Ok
14	Q1687-01	72-12016	VY021743.D	01 Apr 2025 15:52	Not purged	SY/MD	Not Ok
15	Q1688-01	OR-02-040125	VY021744.D	01 Apr 2025 16:15	vial-A Not purge	SY/MD	Not Ok
16	Q1692-01	NB-08-04012025	VY021745.D	01 Apr 2025 16:38	vial-A Internal Standard Fail	SY/MD	ReRun
17	VSTDCCC050	VSTDCCC050EC	VY021746.D	01 Apr 2025 17:01		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 03/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 03/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135218

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
Q1664-01	P001-BBDGA-001-01	1	1.15	11.21	12.36	11.44	91.8	
Q1664-02	Q1664-01MS	2	1.15	11.21	12.36	11.44	91.8	
Q1664-03	Q1664-01MSD	3	1.15	11.21	12.36	11.44	91.8	
Q1664-07	P001-BBDGA-001-02	4	1.15	10.16	11.31	10.5	92.0	
Q1664-09	P001-BBDGA-002-01	5	1.16	10.35	11.51	10.84	93.5	
Q1664-11	P001-BBDGA-003-01	6	1.18	10.46	11.64	11.08	94.6	
Q1664-13	P001-BBDGA-004-01	7	1.13	10.13	11.26	10.79	95.4	
Q1664-15	P001-BBDGA-005-01	8	1.19	10.75	11.94	11.05	91.7	
Q1664-17	P001-BBDGA-006-01	9	1.19	10.99	12.18	11.51	93.9	
Q1664-19	P001-BBDGA-007-01	10	1.18	10.24	11.42	10.68	92.8	
Q1664-21	P001-BBDGA-008-01	11	1.14	11.34	12.48	11.8	94.0	
Q1671-01	WC-1	12	1.15	10.43	11.58	9.86	83.5	
Q1671-02	WC-1-EPH	13	1.16	10.32	11.48	10.02	85.9	
Q1671-03	WC-1-VOC	14	1.18	10.53	11.71	10.12	84.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135218

WorkList Name : %1-032725 **WorkList ID :** 188585 **Department :** Wet-Chemistry **Date :** 03-27-2025 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1664-01	P001-BBDGA-001-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-02	Q1664-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-03	Q1664-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-07	P001-BBDGA-001-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-09	P001-BBDGA-002-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-11	P001-BBDGA-003-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-13	P001-BBDGA-004-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-15	P001-BBDGA-005-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-17	P001-BBDGA-006-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-19	P001-BBDGA-007-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-21	P001-BBDGA-008-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1671-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/27/2025	Chemtech -SO
Q1671-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/27/2025	Chemtech -SO
Q1671-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/27/2025	Chemtech -SO

Date/Time 03/27/25 15:25

Raw Sample Received by: JB WOC1

Raw Sample Relinquished by:

Date/Time 03/27/25 17:10

Raw Sample Received by:

Raw Sample Relinquished by: JB WOC1

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

Prep Standard - Chemical Standard Summary

Order ID : Q1664

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VY032825,vy040125,

Standard ID :
VP131767,VP131783,VP132035,VP132036,VP132098,VP133175,VP133178,VP133179,VP133342,VP133343,VP133520,VP133521,VP133522,VP133544,VP133545,VP133555,VP133556,VP133557,

Chemical ID :
V13391,V13466,V13706,V14154,V14175,V14176,V14289,V14431,V14433,V14435,V14439,V14501,V14502,V14521,V14522,V14523,V14524,V14613,V14614,V14615,V14630,V14631,V14632,V14633,V14719,V14720,V14722,V14723,V14724,V14726,V14744,V14753,V14754,V14804,V14805,V14809,V14814,V14842,V14883,V14896,V14897,V14898,V14899,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
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1917	8260 Internal standard 50 ppm	VP131783	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.02000ml of V14289 + 9.98000ml of V14154 = Final Quantity: 10.000 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	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = 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	VP132036	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 7.50000ml of V14614 + 12.50000ml of VP132035 = 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
252	8260 Working STD (BCM)-First source, 100PPM	VP132098	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.25000ml of V13466 + 23.75000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
249	8260 Surrogate, 100PPM	VP133175	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.10000ml of V13706 + 24.90000ml of V14613 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133178	02/27/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14724 + 1.00000ml of V14744 + 1.00000ml of V14754 + 1.00000ml of V14809 + 1.00000ml of V14814 + 1.50000ml of V14722 + 1.50000ml of V14723 + 10.60000ml of V14613 = 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	VP133179	02/27/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 5.62500ml of V14613 + 9.37500ml of VP133178 = 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	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = 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	VP133343	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 5.62500ml of V14883 + 9.37500ml of VP133342 = 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
773	50 PPB CCC, 8260-SOIL	VP133520	03/28/2025	03/29/2025	Amit Patel	None	None	Mahesh Dadoda 03/31/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133179 + 0.00250ml of VP133343 + 0.00500ml of VP131783 = 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	VP133521	03/28/2025	03/29/2025	Amit Patel	None	None	Mahesh Dadoda 03/31/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133179 + 0.00250ml of VP133343 + 0.00500ml of VP131783 = 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	VP133522	03/28/2025	03/29/2025	Amit Patel	None	None	Mahesh Dadoda 03/31/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP131767 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133544	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
244	8260 Calibration Working STD Mix-First source, 100PPM	VP133545	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025

FROM 5.62500ml of V14615 + 9.37500ml of VP133544 = Final Quantity: 15.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP133555	04/01/2025	04/02/2025	Amit Patel	None	None	Mahesh Dadoda 04/03/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP131767 = 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	VP133556	04/01/2025	04/02/2025	Amit Patel	None	None	Mahesh Dadoda 04/03/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133343 + 0.00250ml of VP133545 + 0.00500ml of VP131783 = 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	VP133557	04/01/2025	04/02/2025	Amit Patel	None	None	Mahesh Dadoda 04/03/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133343 + 0.00250ml of VP133545 + 0.00500ml of VP131783 = 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	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

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	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

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	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

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	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14431

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14502

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	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

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	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14523

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2025	03/19/2025 / SAM	11/26/2024 / SAM	V14615

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14719

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14720

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14753

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	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14804

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14805

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	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14809

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	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

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	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

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

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

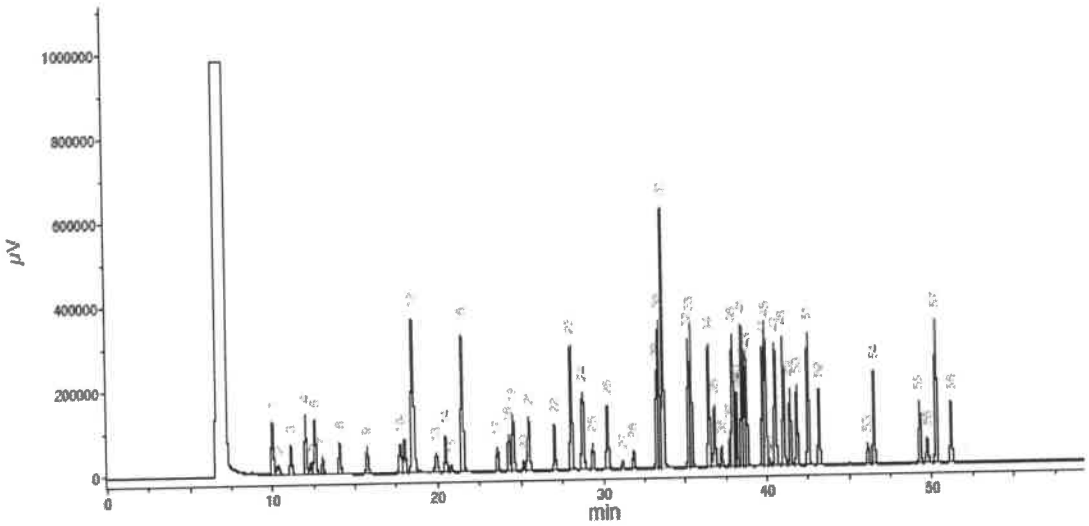
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
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	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

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

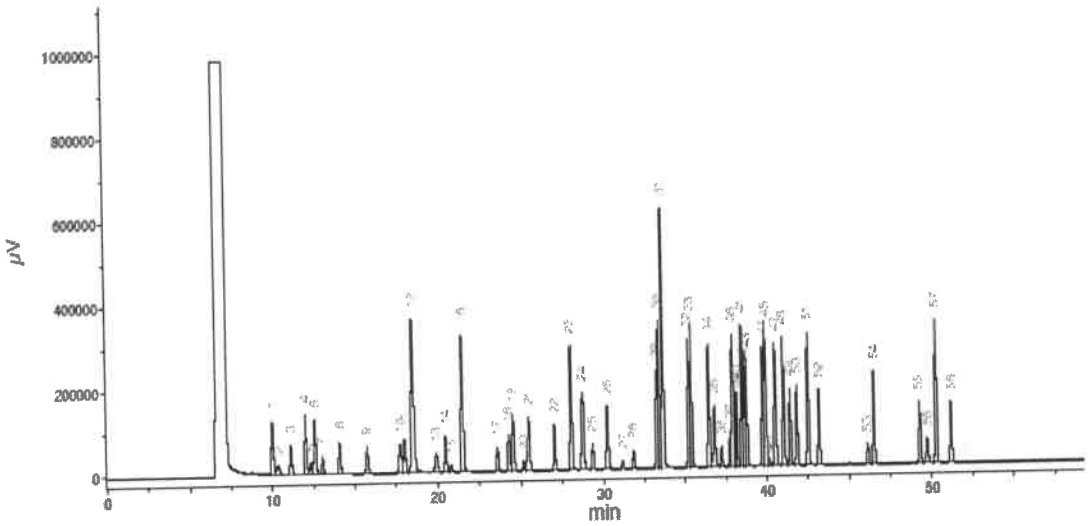
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	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	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

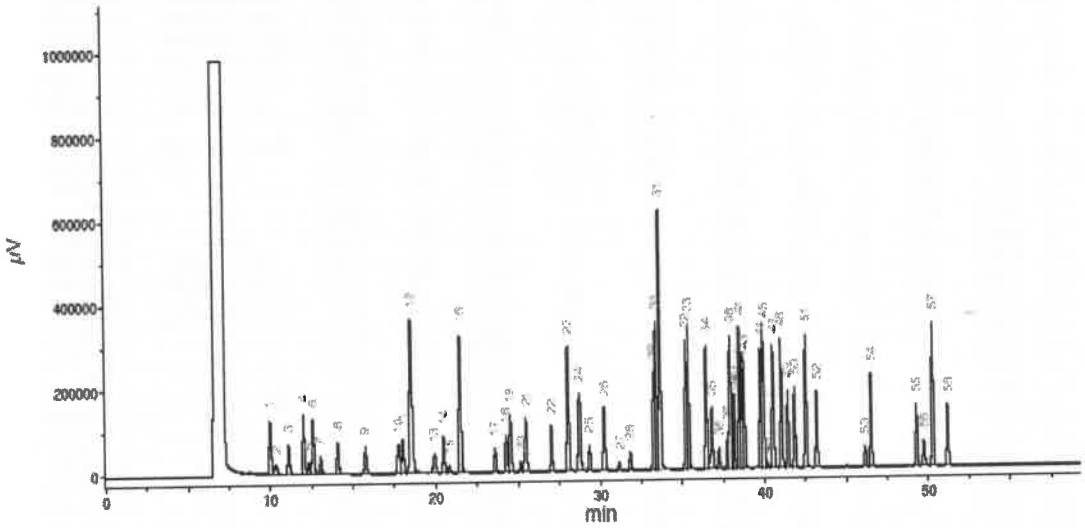
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	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)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	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	40017.8	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 (46mg/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	1999.6	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	1999.6	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	40003.6	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	40000.6	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 sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: 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-1,2,2-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	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethene	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.88
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
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	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

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.

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): Methanol **Lot#** EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

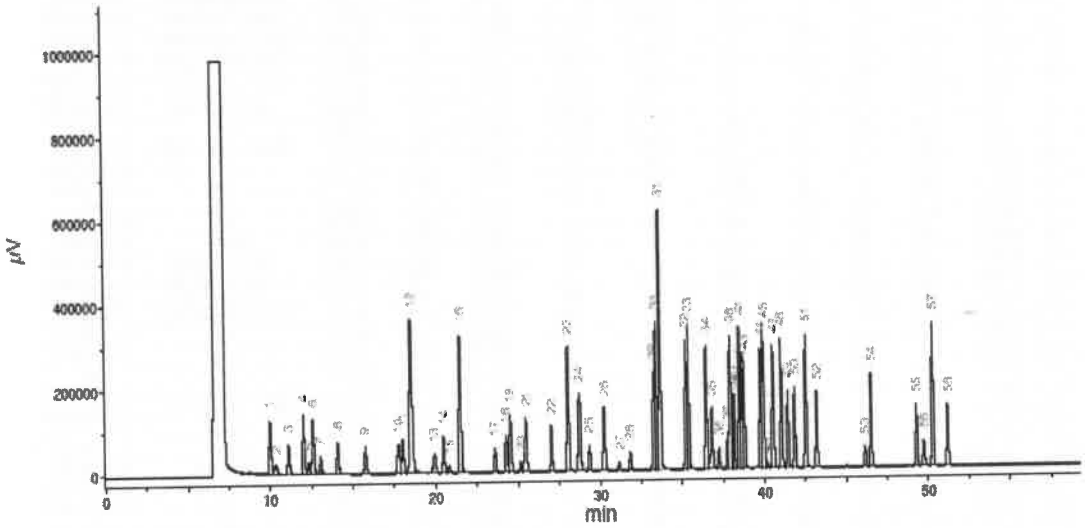
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	(0486)	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	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	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	40017.8	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 (46mg/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	1999.6	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	1999.6	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	40003.6	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	40000.6	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 sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: 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-1,2,2-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	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethene	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
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	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

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 03/18/24
5 vials

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

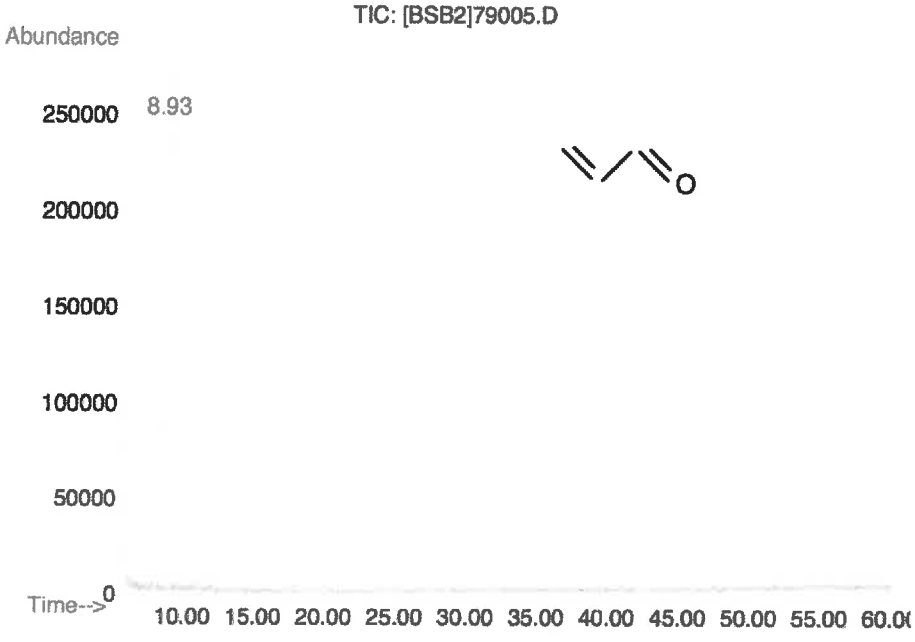
Weight(s) shown below were combined and diluted to (mL): 10.0

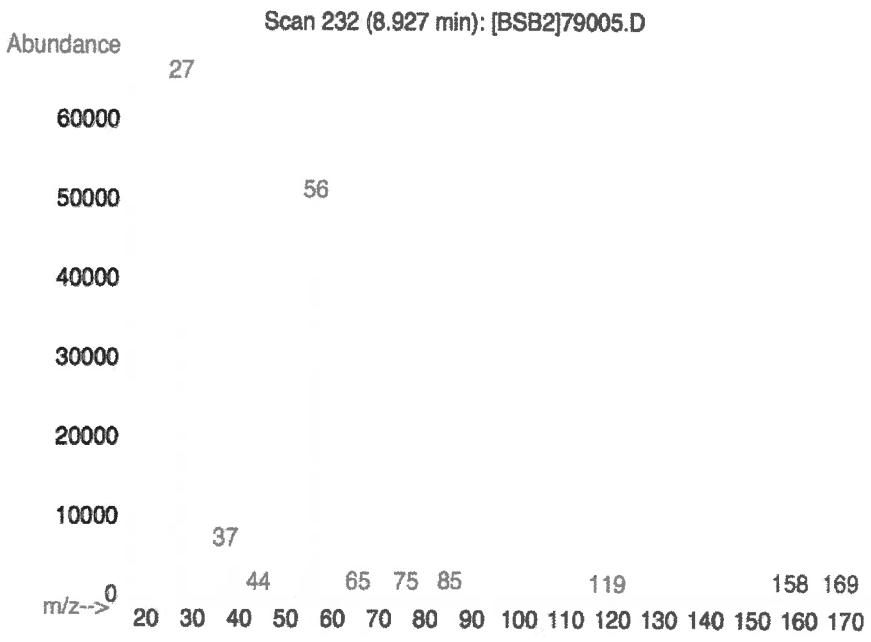
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material 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 03/18/24
5 vial

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

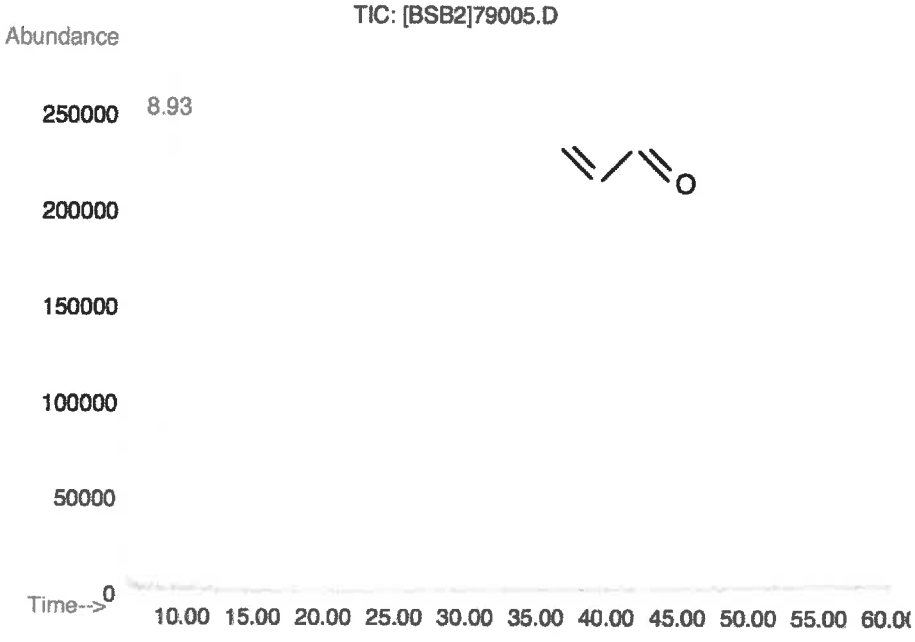
Weight(s) shown below were combined and diluted to (mL): 10.0

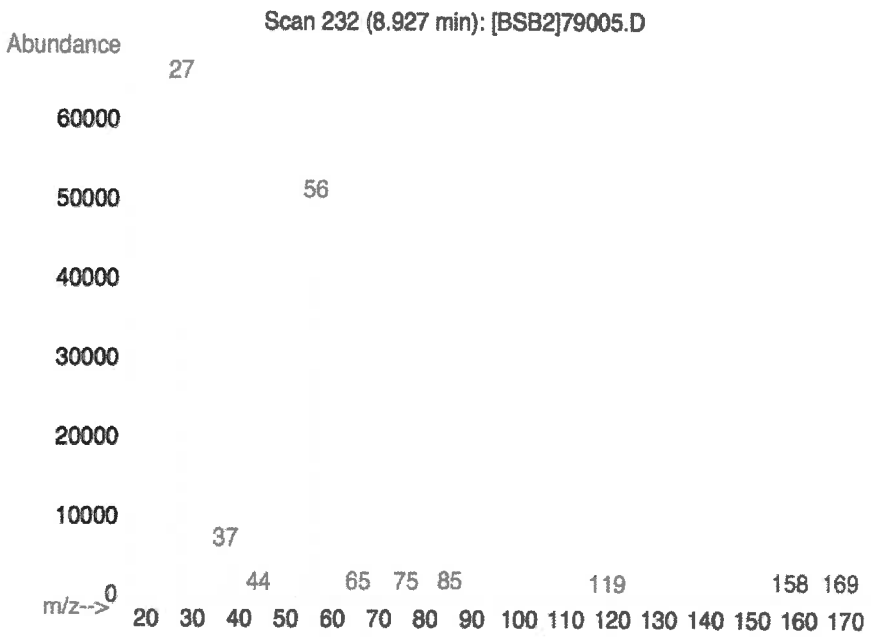
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material 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 03/18/24

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5 vial

Part Number:	91980
Lot Number:	031725
Description:	Acrolein
Expiration Date:	041725
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): **Lot#**
Water 072324Q

V14895 to V14899

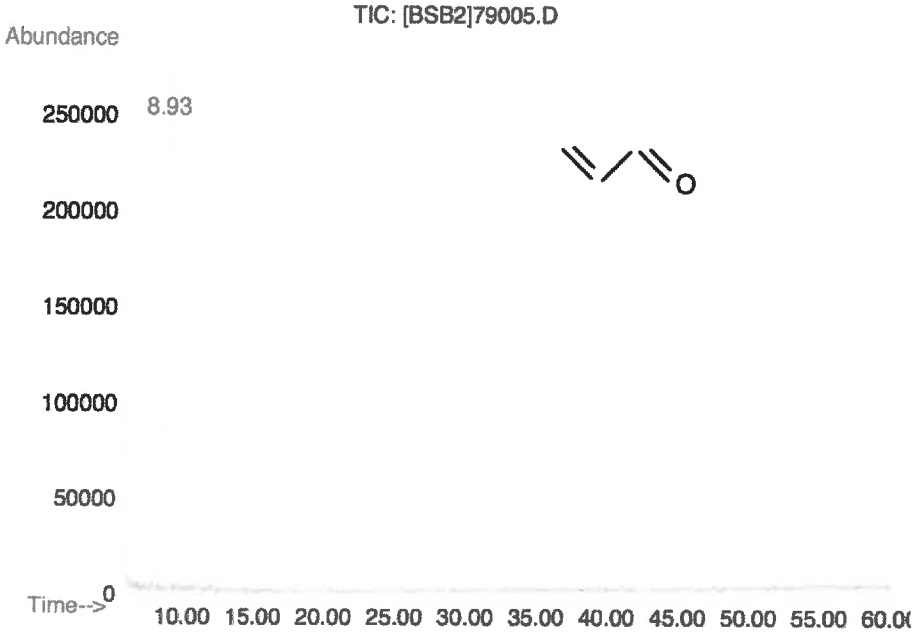
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

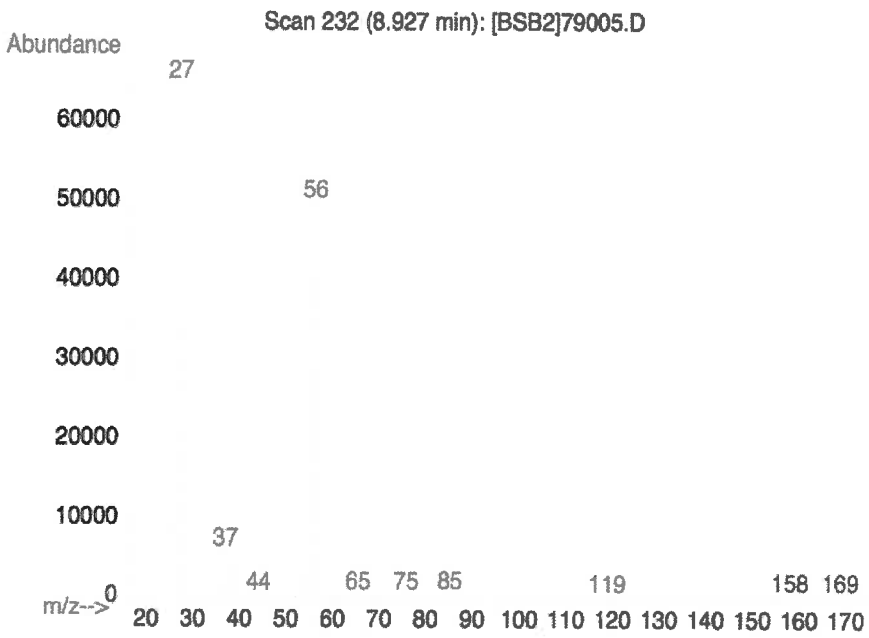
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material 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 03/18/24
5 vials

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

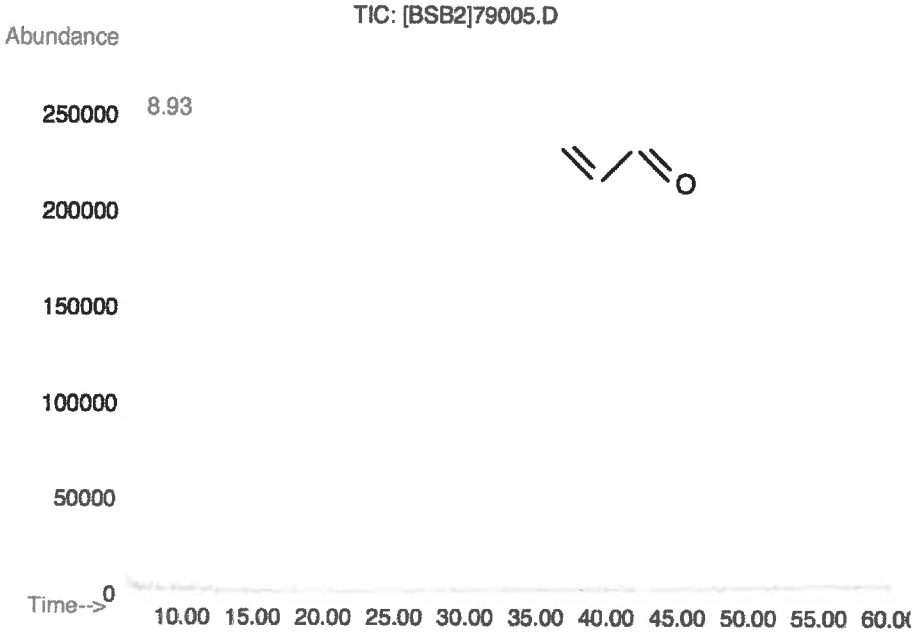
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

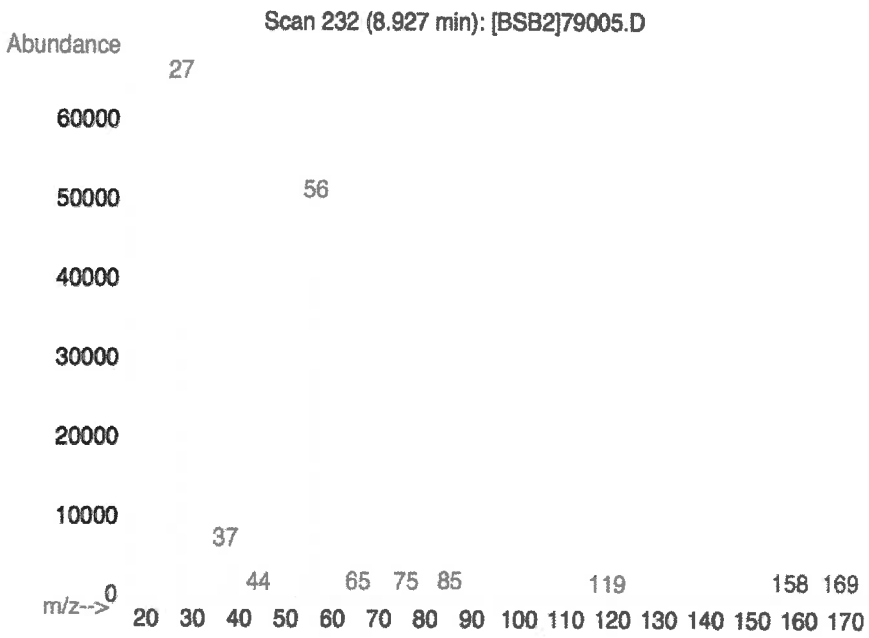
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0

Solvent(s): **Lot#**
Water 072324Q

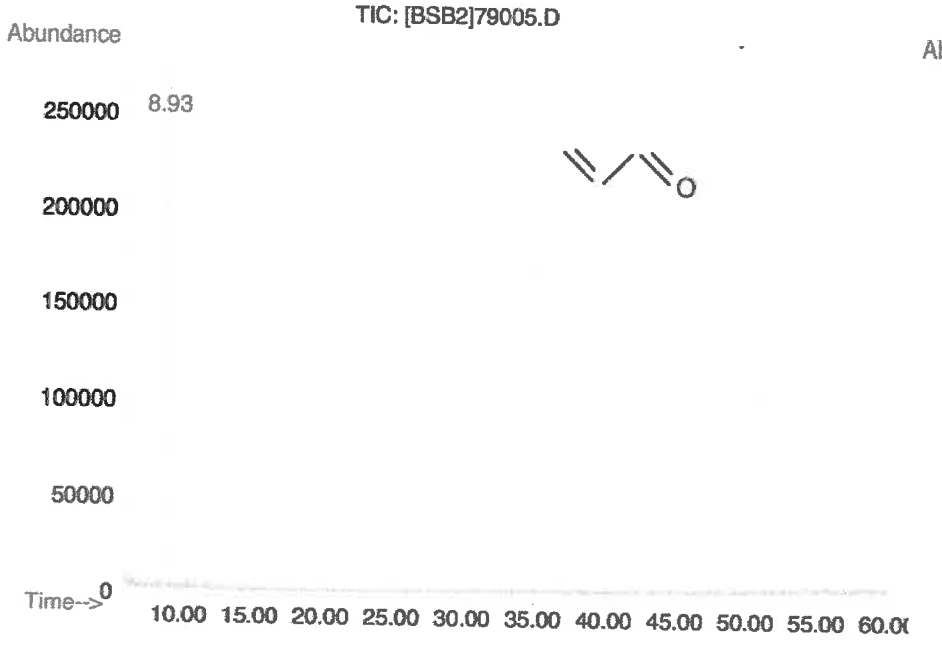
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

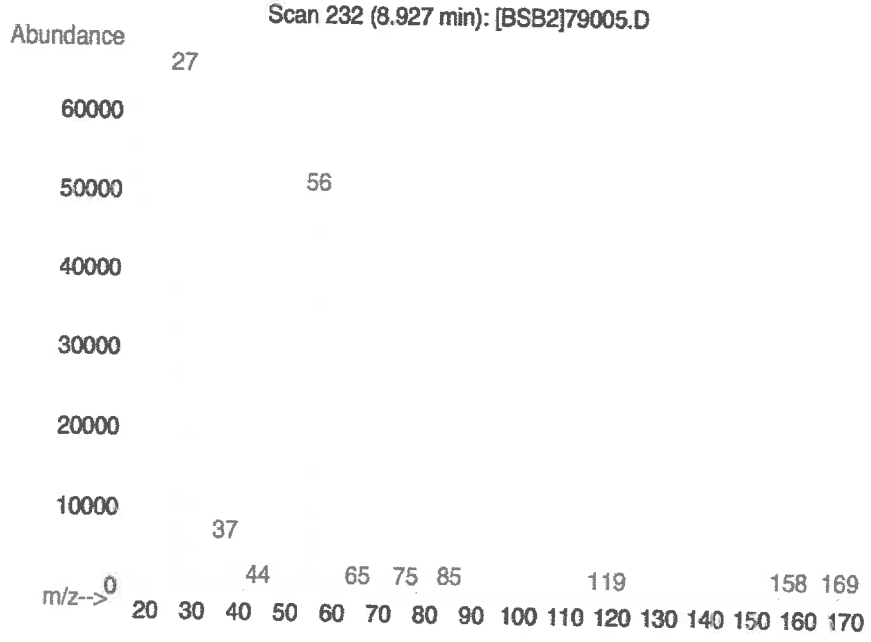
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

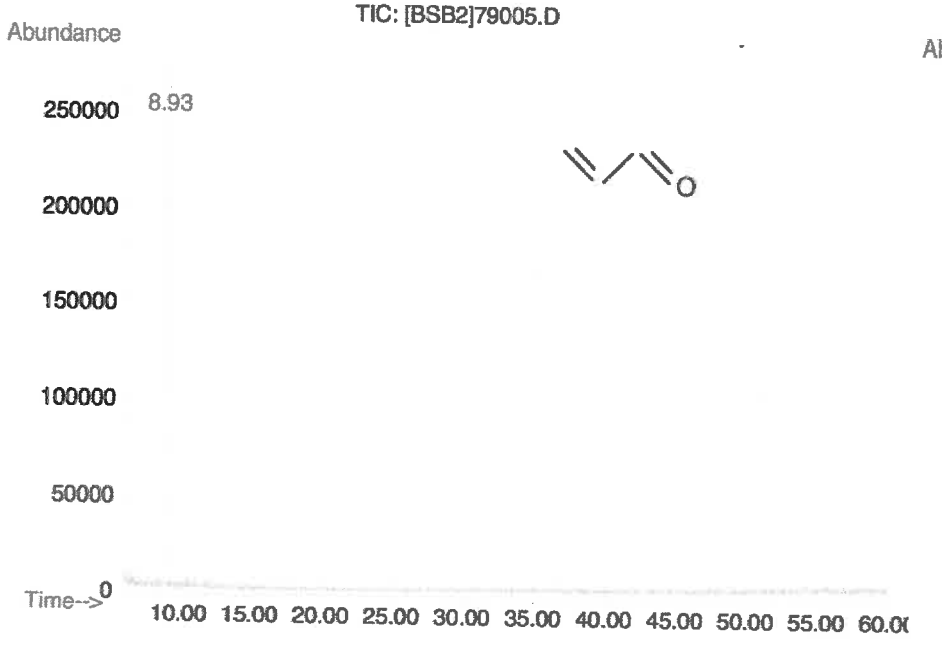
Weight(s) shown below were combined and diluted to (mL): 10.0

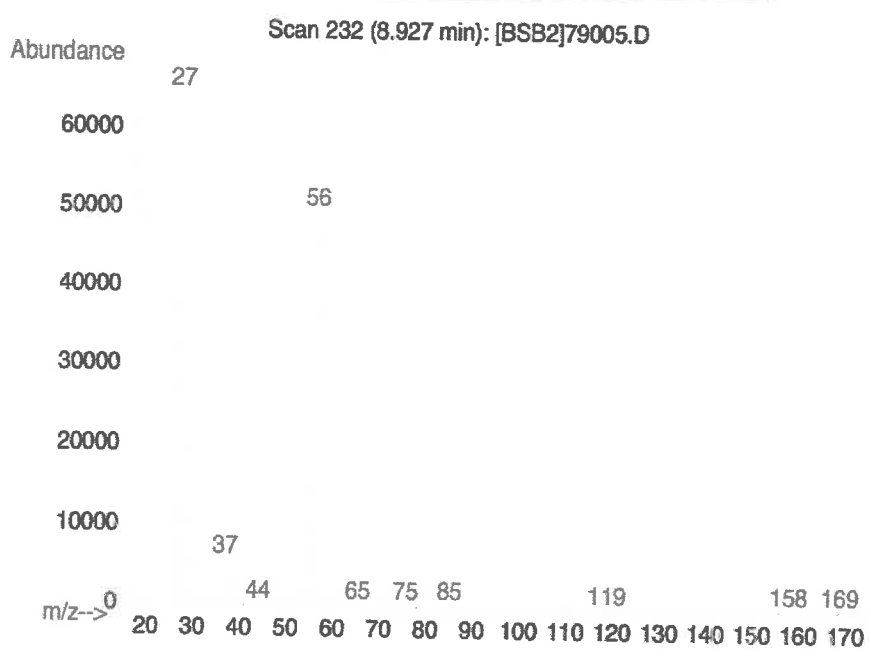
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Justin Dippold	091424 DATE
Reviewed By: Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

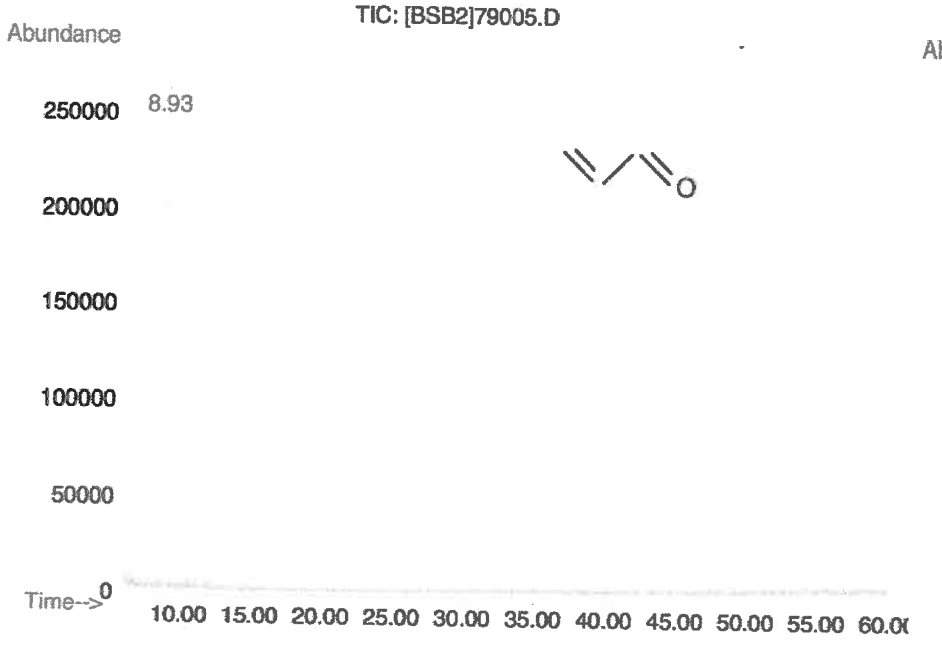
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

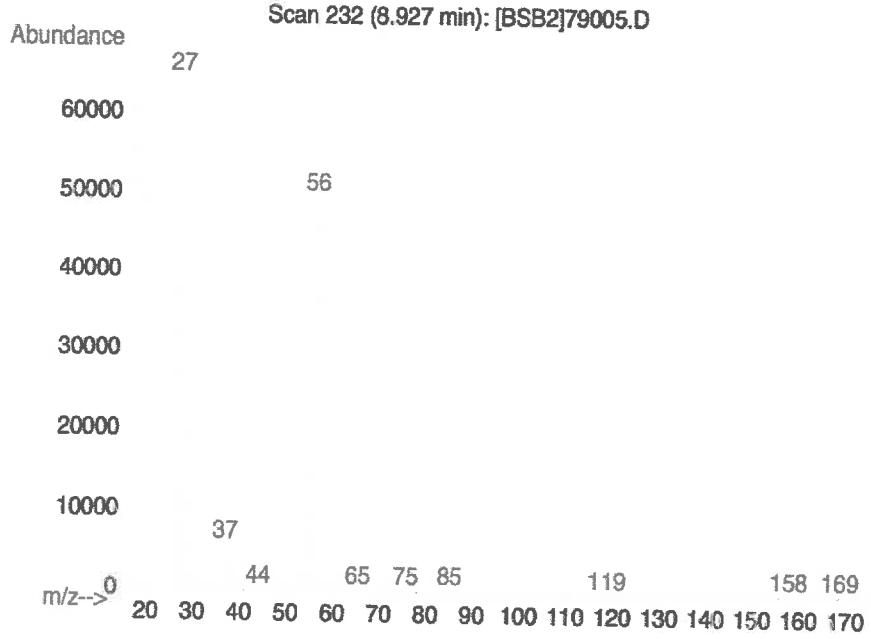
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

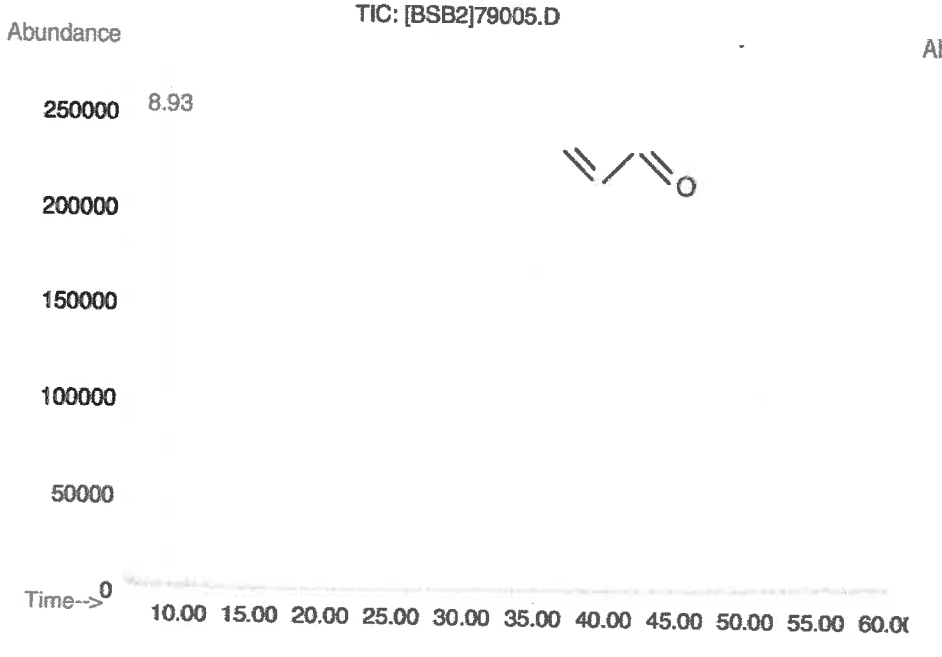
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

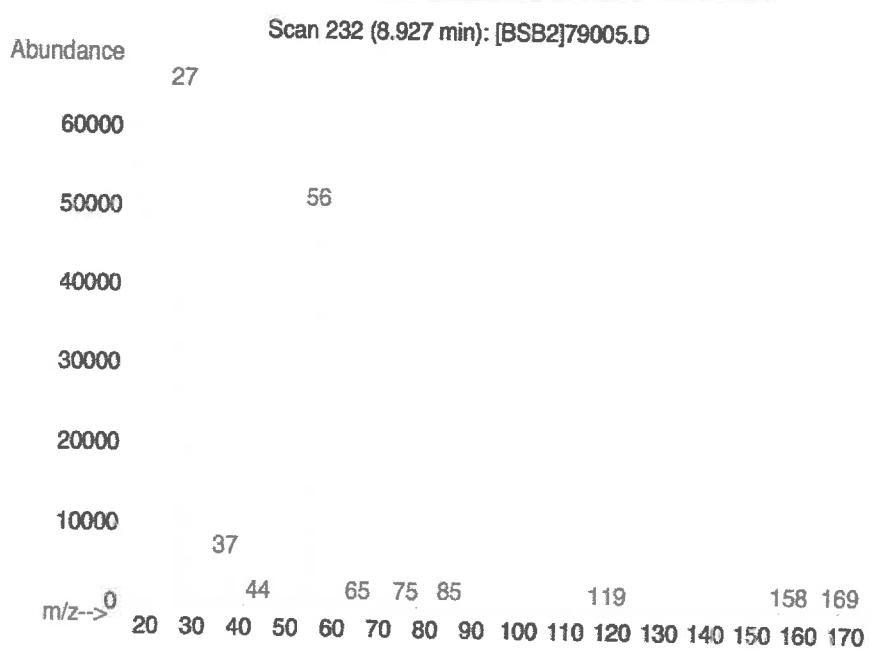
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Dec 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

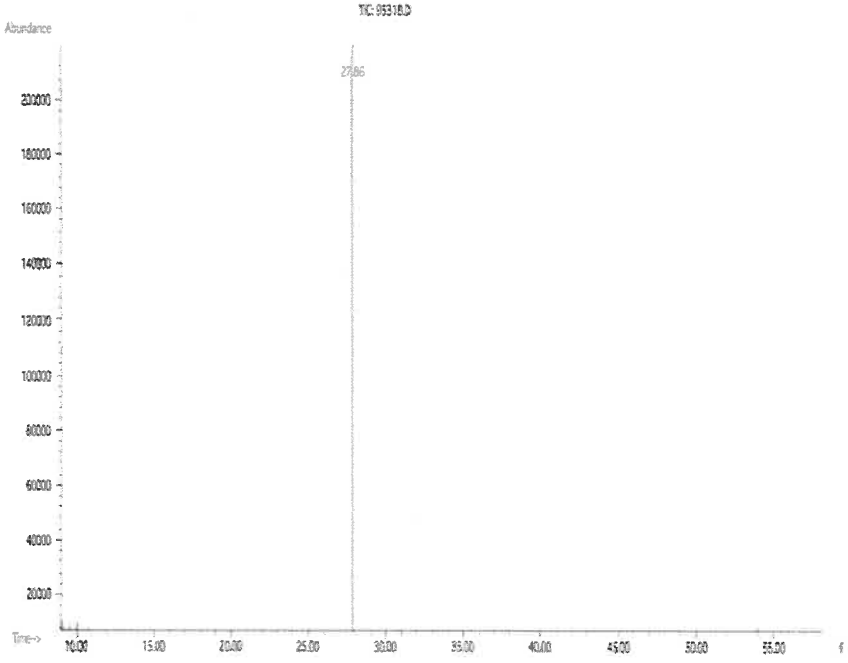
Solvent(s):	Lot#
Methanol	EJ143-US

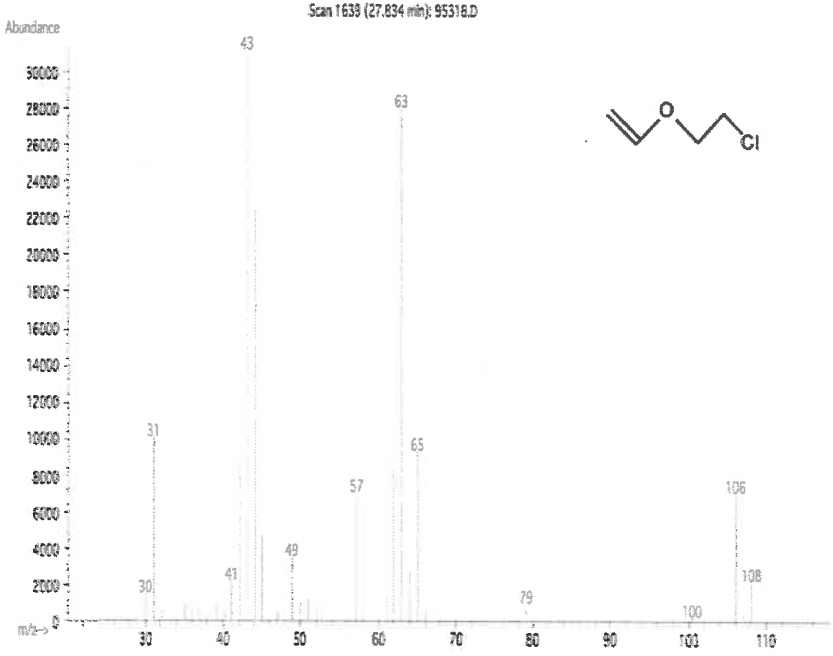
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

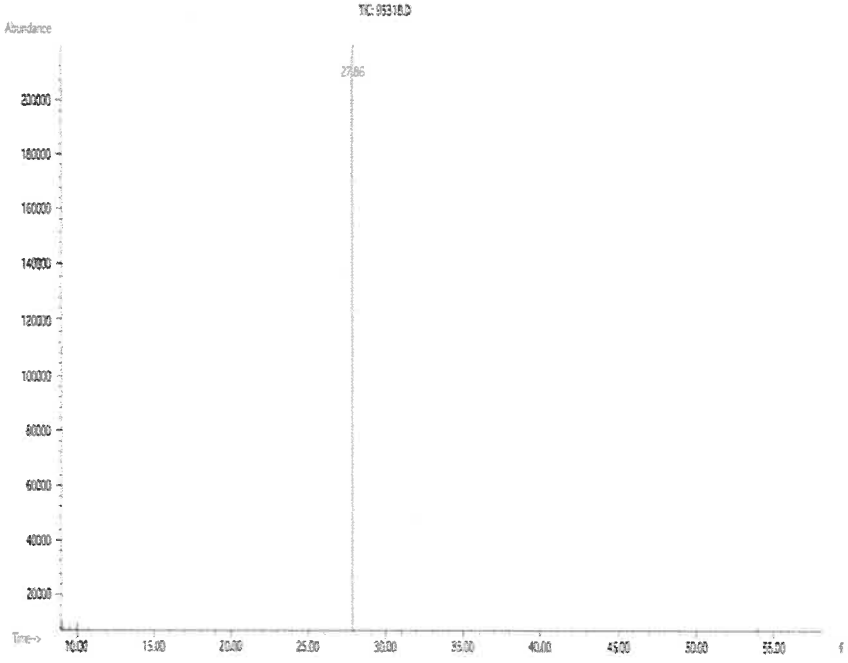
Solvent(s): Methanol **Lot#** EJ143-US

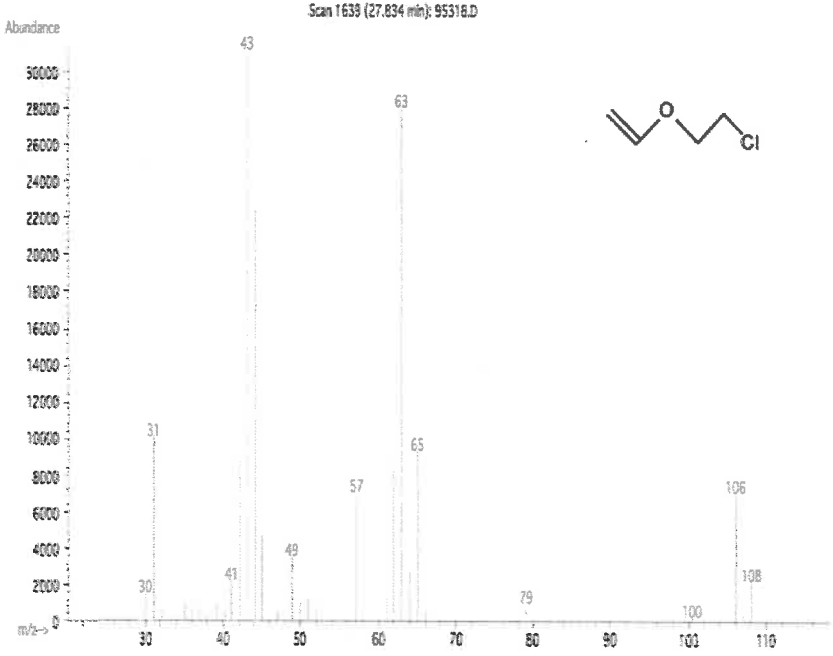
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

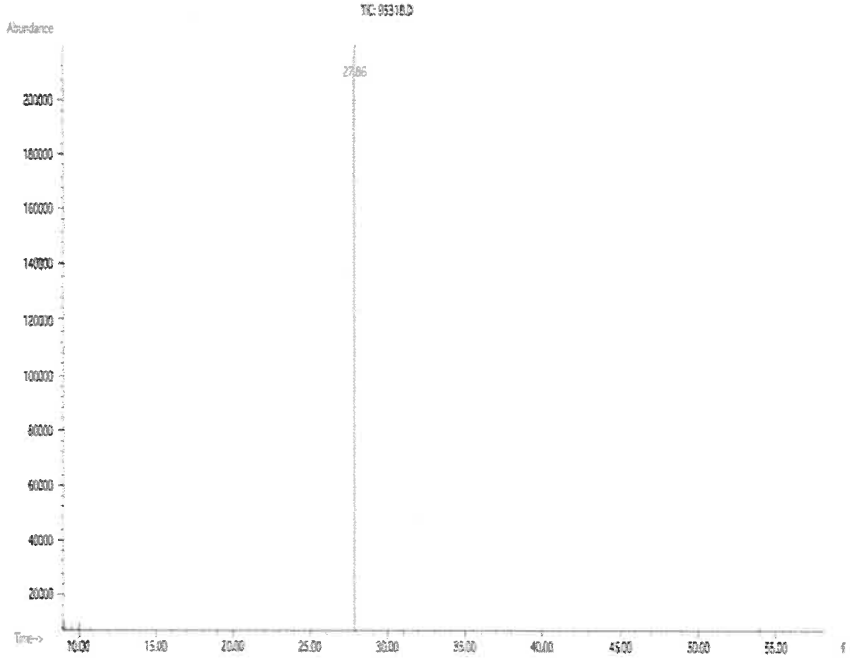
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

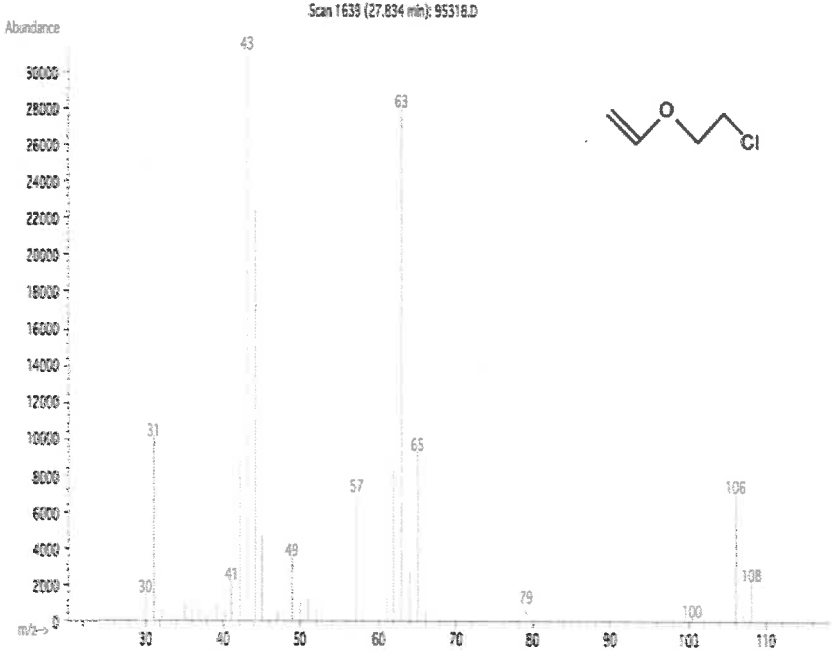
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

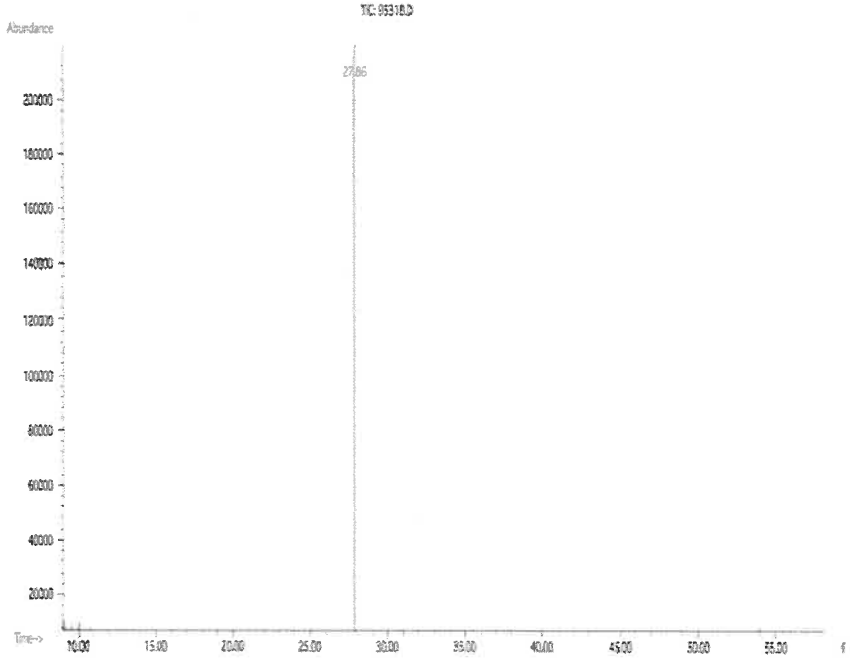
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

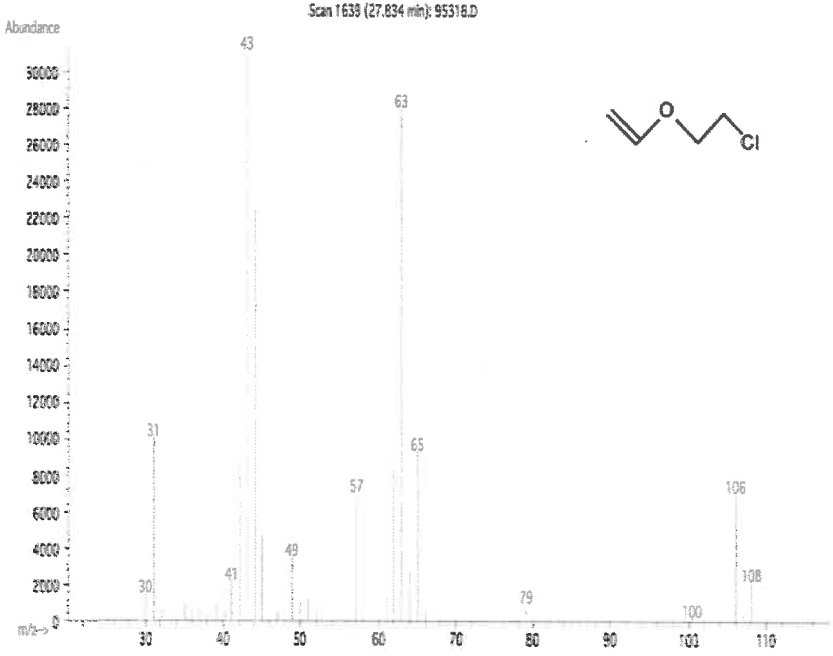
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

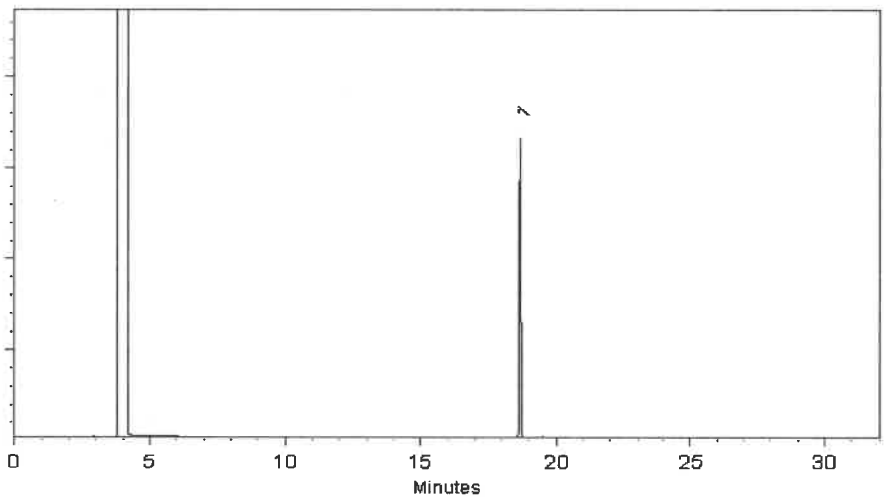
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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.)

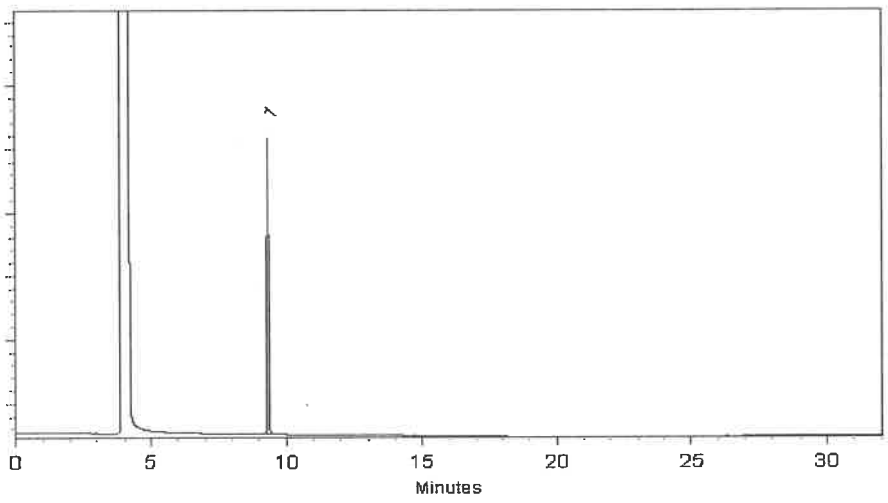
Inj. Temp:
200°C

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.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

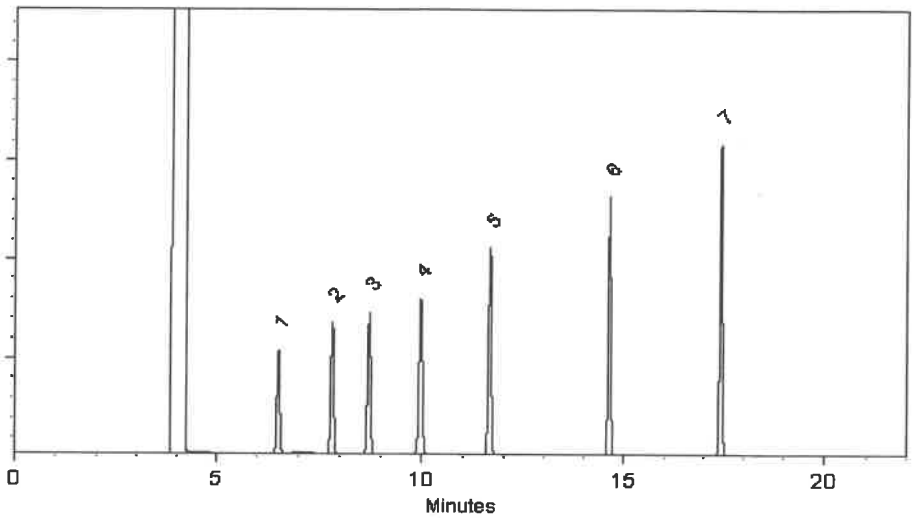
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

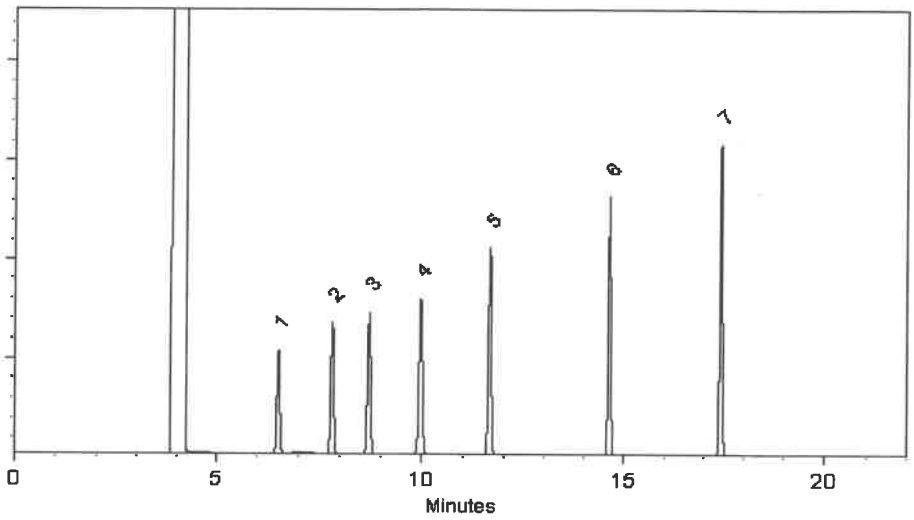
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

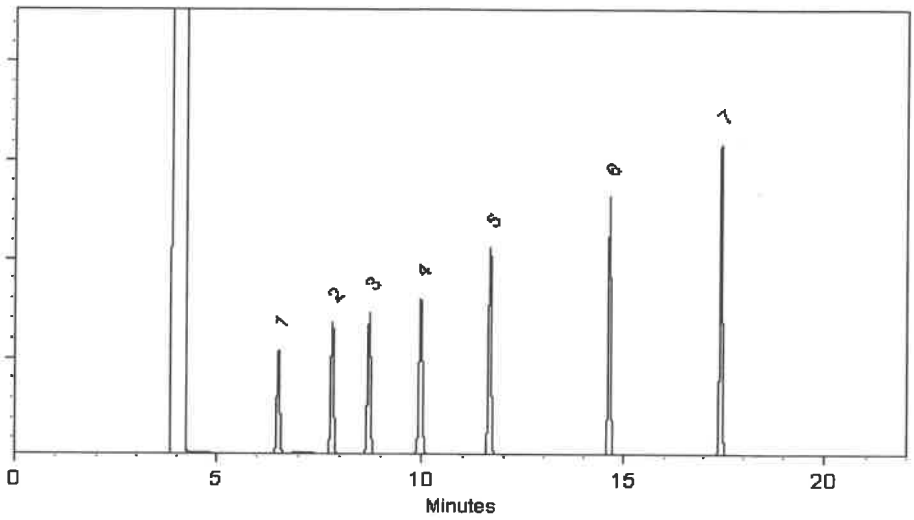
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

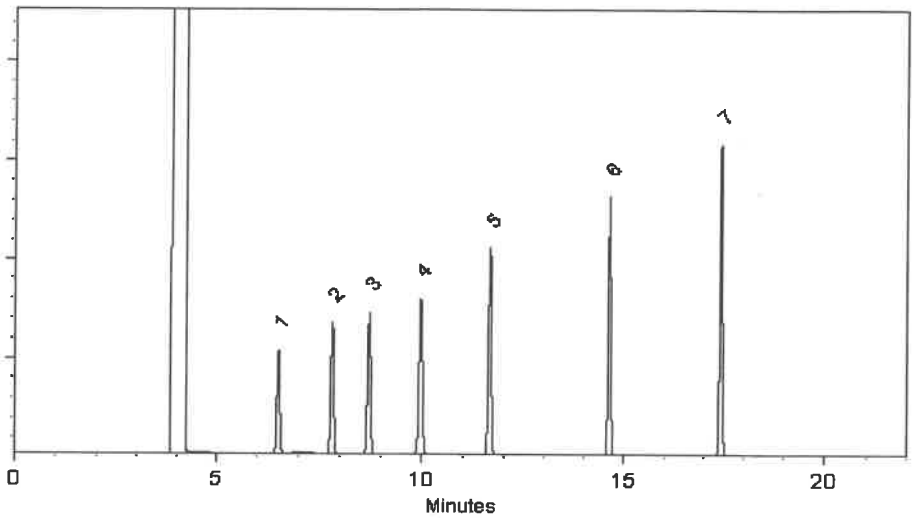
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

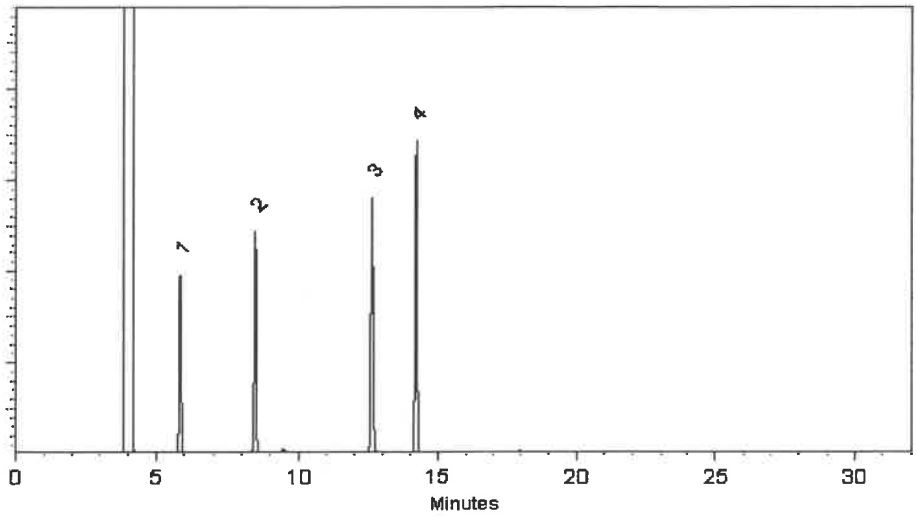
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

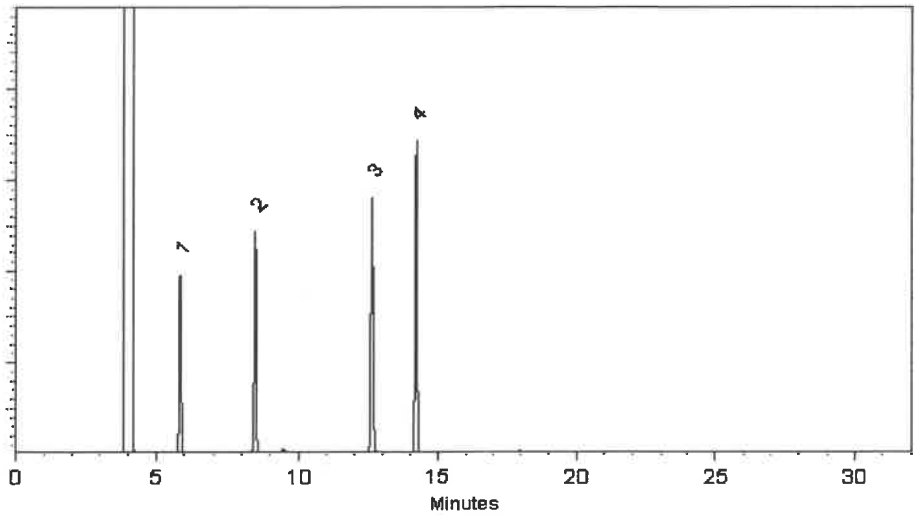
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

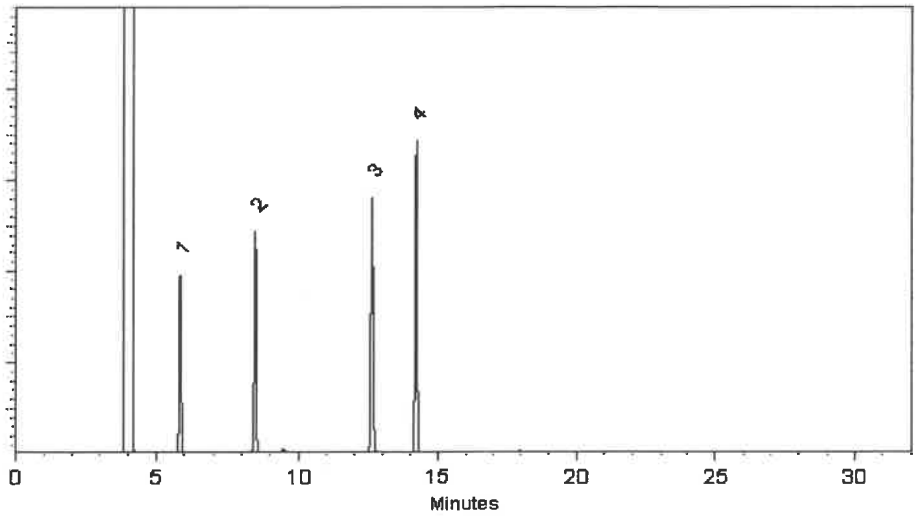
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

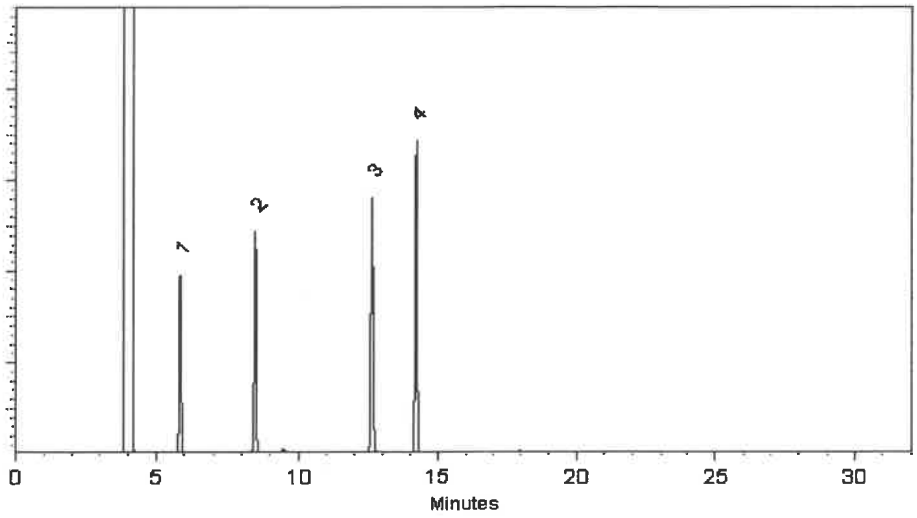
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

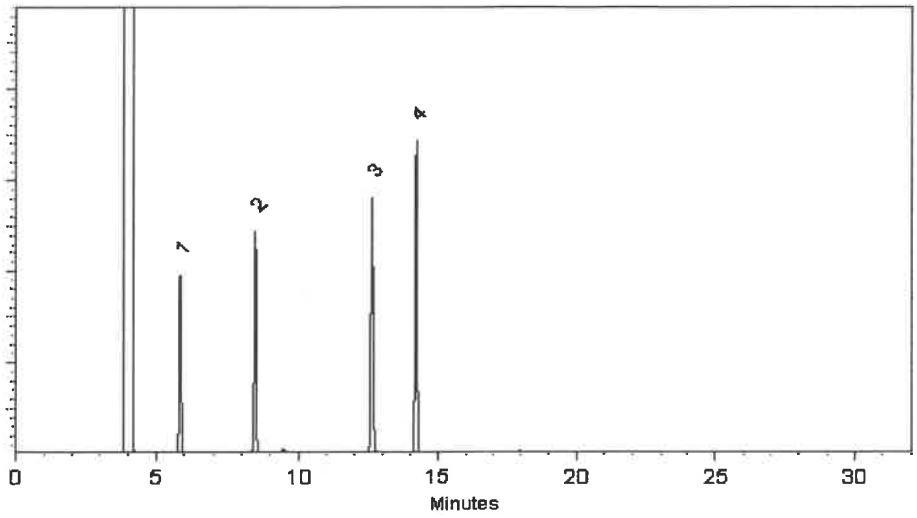
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

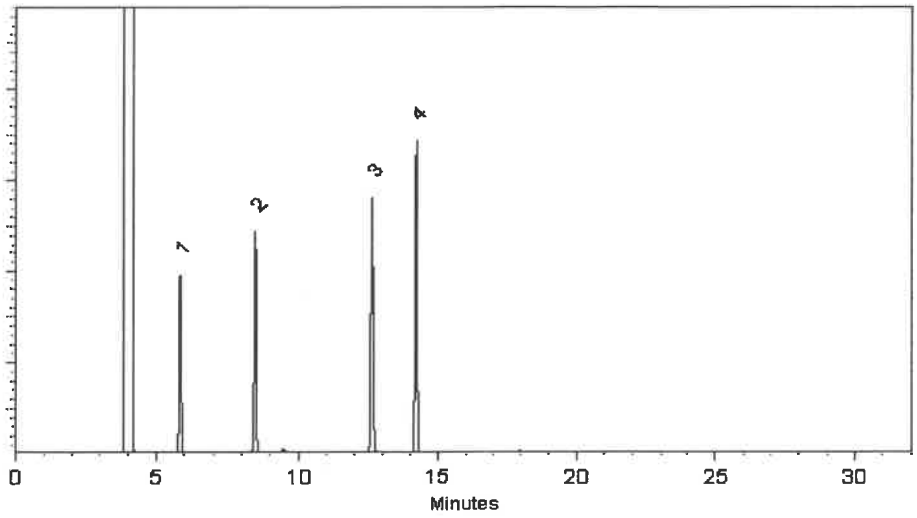
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 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.

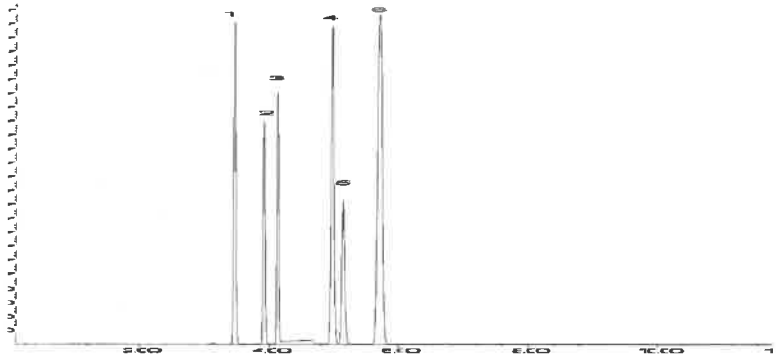
Inj. Temp:
200°C

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.

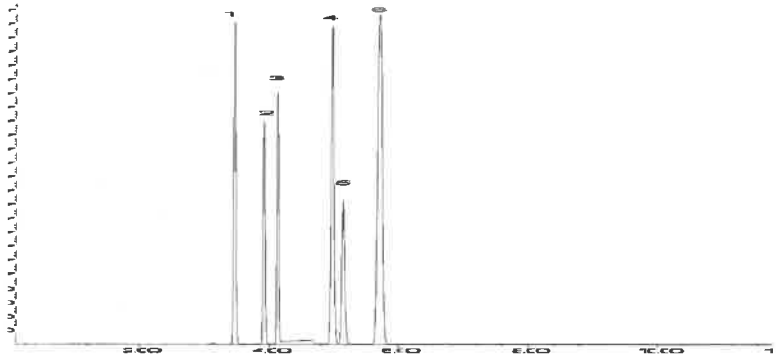
Inj. Temp:
200°C

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

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.

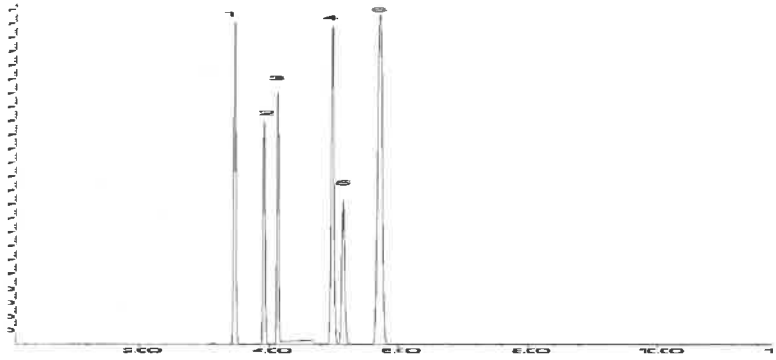
Inj. Temp:
200°C

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.)

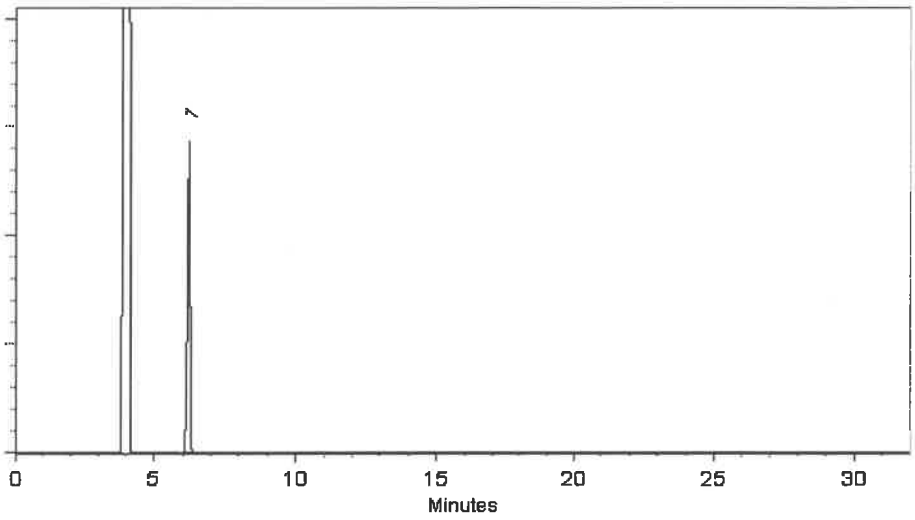
Inj. Temp:
200°C

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

Vinyl Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

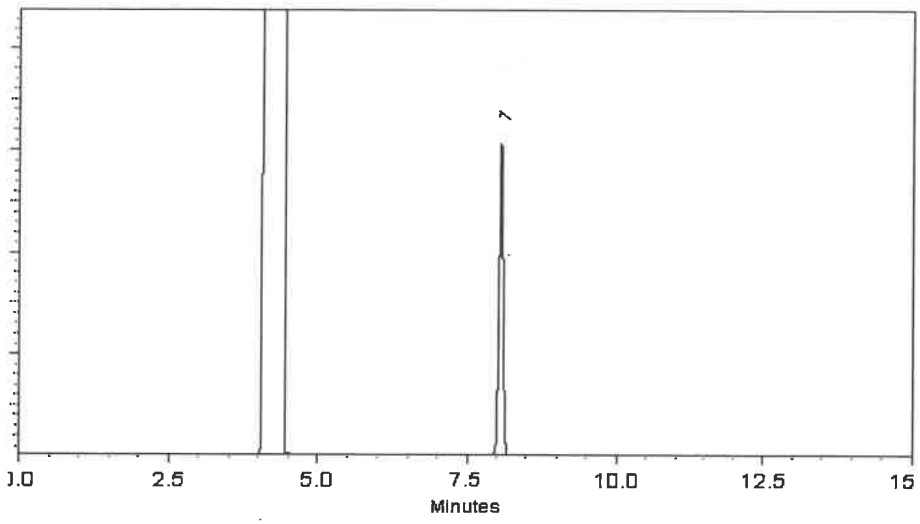
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

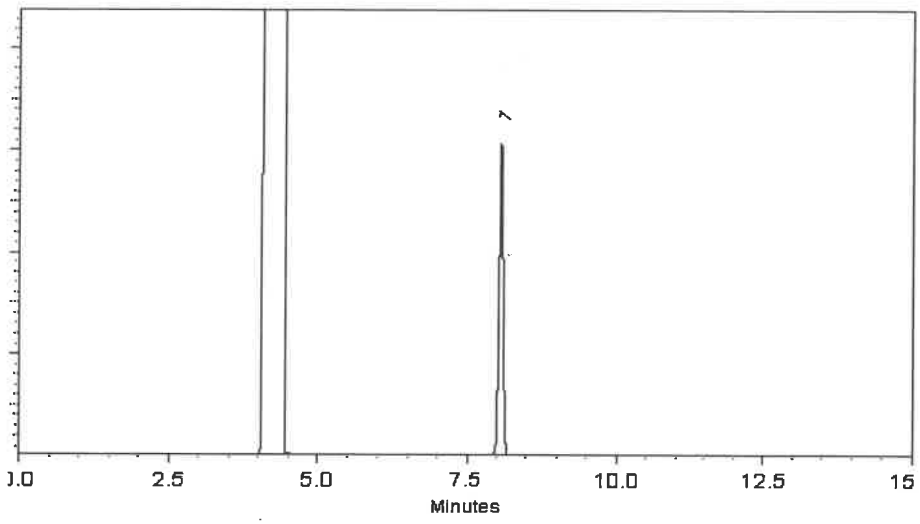
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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.)

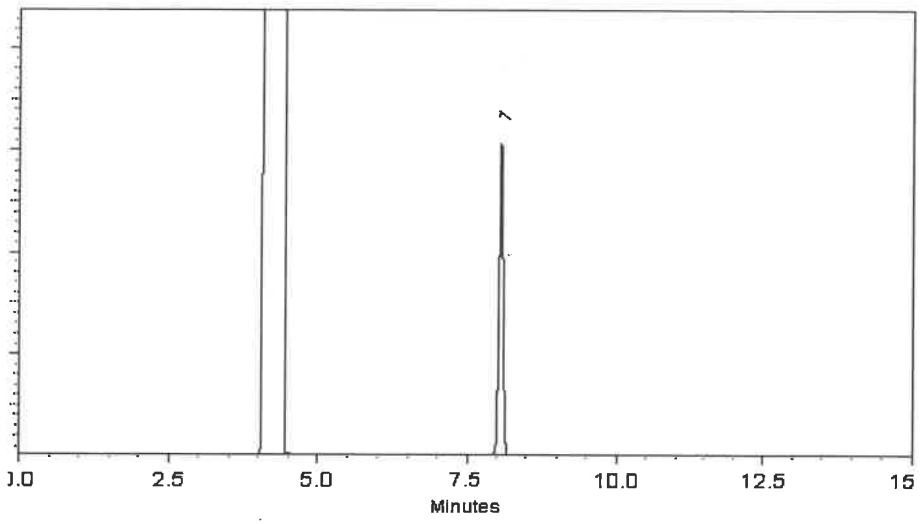
Inj. Temp:
200°C

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

Zoviy 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.)

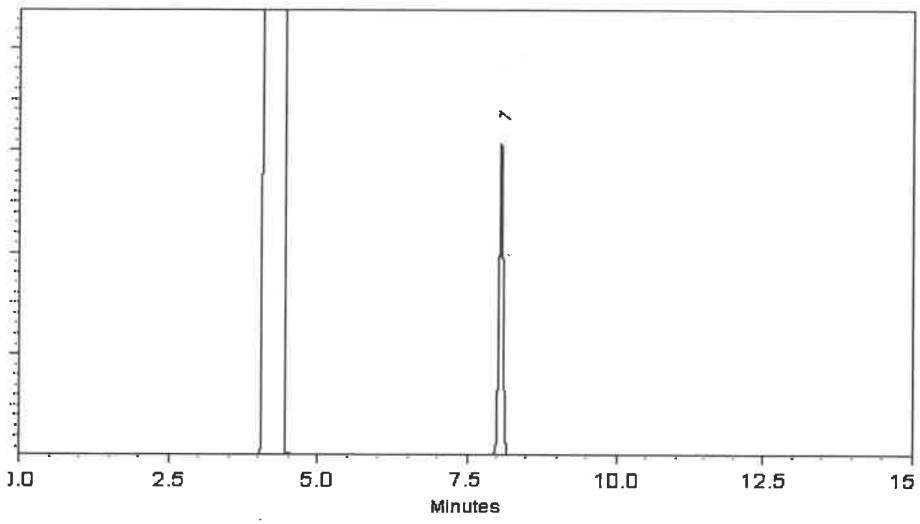
Inj. Temp:
200°C

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.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

V14883
V14884

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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

Preservation Log

BalanceID: VOC-SC-2

Review By: pedro

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)	Vial A Time	Vial B Weight(g)	Vial B Time	Vial C Weight(g) with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q1664-01	4.82	11:00	4.52	11:01	4.26	11:02	V14143	03/28/2025	8260 ENCORE SAMPLE 8260 STORED IN FRZ #2
2	Q1664-02	4.20	11:03	4.19	11:04	5.23	11:05	V14143	03/28/2025	
3	Q1664-03	4.71	11:10	4.56	11:11	3.58	11:12	V14143	03/28/2025	
4	Q1664-07	3.44	11:18	5.05	11:19	4.71	11:20	V14143	03/28/2025	
5	Q1664-09	4.01	11:24	4.26	11:25	4.12	11:26	V14143	03/28/2025	
6	Q1664-11	4.86	11:30	3.98	11:31	5.11	11:32	V14143	03/28/2025	
7	Q1664-13	5.46	11:36	4.12	11:37	4.78	11:38	V14143	03/28/2025	
8	Q1664-15	3.05	11:42	4.56	11:43	5.74	11:44	V14143	03/28/2025	
9	Q1664-17	5.74	11:48	4.98	11:49	4.36	11:50	V14143	03/28/2025	
10	Q1664-19	4.35	11:54	4.24	11:55	4.74	11:56	V14143	03/28/2025	
11	Q1664-21	5.14	12:00	4.6	12:01	4.54	12:02	V14143	03/28/2025	

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

Q16664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-01	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	8:35 3-27-25		8:35 3-27-25	IR Gun #1 2.1 C no Custody Seal Temp Blank present

Q16664

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-02	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0855 3/27/25		8:35 3-27-25	IR Gun #1 2.1°C
					No Custody Seal
					Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-002-01	P001-BBDGA-002		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		F	SPLP EPH	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		G	SPLP VOCs	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		0835 3-27-25	IR Gun #1 2.1°C
					No Custody Seal
					No Temp Blank

Q16664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-003-01	P001-BBDGA-003		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		F	SPLP EPH	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		G	SPLP VOCs	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3-27-25	IR Cont # 1 2.1°
					No Custody Seal
					Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-004-01	P001-BBDGA-004		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		F	SPLP EPH	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		G	SPLP VOCs	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0935 3/27/25		0:35 3.27.25	If C-#1 2.1 °C No Custody Seal Temp Blk present

Q16664

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-005-01	P001-BBDGA-005		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		F	SPLP EPH	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		G	SPLP VOCs	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3-27-25	IR Gun # 1 2.1 No Custody Seal Trip Blank

Q16464

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-006-01	P001-BBDGA-006		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		F	SPLP EPH	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		G	SPLP VOCs	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	3/27/25 0835		8:35 3-27-25	IR Gun 1 2.1 C No Custody Seal Intact Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-007-01	P001-BBDGA-007		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		F	SPLP EPH	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		G	SPLP VOCs	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	3/27/25 0835		0835 3-27-25	IR Gun #1 2.1°C No Custody Seal Temp Blank present

Q16664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-008-01	P001-BBDGA-008		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		F	SPLP EPH	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		G	SPLP VOCs	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3.27.25	IR Gun #1 2.1 C no Custody Seal Temp Blank present

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 3/27/2025 10:47:00 AM
Project Name : RFP 905
Receive DateTime : 3/27/2025 8:35:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q1664-01	P001-BBDGA-001-01	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days	3 Days	
Q1664-02	Q1664-01MS	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-03	Q1664-01MSD	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-07	P001-BBDGA-001-02	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-09	P001-BBDGA-002-01	Solid	03/26/2025	09:35						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-11	P001-BBDGA-003-01	Solid	03/26/2025	09:40						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-13	P001-BBDGA-004-01	Solid	03/26/2025	09:45						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-15	P001-BBDGA-005-01	Solid	03/26/2025	09:50						

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 3/27/2025 10:47:00 AM
Project Name : RFP 905
Receive DateTime : 3/27/2025 8:35:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	3 days
Q1664-17	P001-BBDGA-006-01	Solid	03/26/2025	09:55					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-19	P001-BBDGA-007-01	Solid	03/26/2025	10:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-21	P001-BBDGA-008-01	Solid	03/26/2025	10:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 3/27/25 1200

Received By :
Date / Time : 03.27.25 12:00

Storage Area : VOA Refridgerator Room