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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NJ SOIL PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1872

ATTENTION : Mohammad Ahmed

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

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Cover Page

Order ID : Q1872

Project ID : NJ Soil PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q1872-01	HW0425-PT-AN-SOIL
Q1872-02	HW0425-PT-CORR-SOIL
Q1872-03	HW0425-PT-CN-SOIL
Q1872-04	HW0425-PT-CN-SOIL
Q1872-05	HW0425-PT-FP-SOIL
Q1872-06	HW0425-PT-CR6-SOIL
Q1872-07	HW0425-PT-NUT-SOIL
Q1872-08	HW0425-PT-NUT-SOIL
Q1872-09	HW0425-PT-OGR-SOIL
Q1872-10	HW0425-PT-MET-SOIL
Q1872-11	HW0425-PT-BNA-SOIL
Q1872-12	HW0425-PT-TRIAZINE-SOIL
Q1872-13	HW0425-PT-PAH-SOIL
Q1872-14	HW0425-PT-DIES-SOIL
Q1872-15	HW0425-PT-GAS-SOIL
Q1872-16	HW0425-PT-NJEPH-SOIL
Q1872-17	HW0425-PT-HERB-SOIL
Q1872-18	HW0425-PT-PCB-SOIL
Q1872-19	HW0425-PT-PCBO-SOIL
Q1872-20	HW0425-PT-PEST-SOIL
Q1872-21	HW0425-PT-CHLR-SOIL
Q1872-22	HW0425-PT-TXP-SOIL
Q1872-23	HW0425-PT-VOA-SOIL
Q1872-24	HW0425-PT-SOL-SOIL
Q1872-25	HW0425-PT-NO2-SOIL

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 : _____

Date: 5/31/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Alliance Technical Group, LLC - Newark
Project Name: NJ Soil PT
Project # N/A
Order ID # Q1872
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
24 Solid samples were received on 04/24/2025.
1 Solid sample was received on 04/28/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, TKN, TOC, TS and VOCMS Group1. This data package contains results for VOCMS Group1.

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 VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria.

The Blank Spike for {VY0429SBS01} with File ID: VY022048.D met requirements for all samples except for N-amyl acetate[84%]. Failing low but only dilution sample analyzed under this Blank spike and dilution is not associated for this compound; Therefore no further corrective action was taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82Y042225S.M) for Acetone is passing on Linear Regression.

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The Continuous Calibration File ID VY022021.D met the requirements except for Acrolein .failing low but no positive hit in associated samples, Therefore no corrective action taken

The Tuning criteria met requirements.

Sample HW0425-PT-VOA-SOIL was diluted due to high concentration.

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

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q1872 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 (82Y042225S.M) for Acetone is passing on Linear Regression. The Continuous Calibration File ID VY022021.D met the requirements except for Acrolein .failing low but no positive hit in associated samples, Therefore no corrective action taken			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike for {VY0429SBS01} with File ID: VY022048.D met requirements for all samples except for N-amyl acetate[84%] . Failing low but only dilution sample analyzed under this Blank spike and dilution is not associated for this compound; Therefore no further corrective action was taken.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Sample HW0425-PT-VOA-SOIL was diluted due to high concentration.

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 Date

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

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1872

	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:** 05/31/2025

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LAB CHRONICLE

OrderID:	Q1872	**OrderDate:**	4/24/2025 1:26:50 PM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Soil PT
Contact:	Mohammad Ahmed	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1872-23	**HW0425-PT-VOA-SOIL**	**SOIL**			**04/21/25**			**04/24/25**
			VOCMS Group1	8260D			04/28/25	
Q1872-23DL	**HW0425-PT-VOA-SOILDL**	**SOIL**			**04/21/25**			**04/24/25**
			VOCMS Group1	8260D			04/28/25	
			VOCMS Group1	8260D			04/29/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**HW0425-PT-VOA-SOIL**							
Q1872-23	HW0425-PT-VOA-	SOIL	Bromomethane	1.20	J	1.10	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,1-Dichloroethene	150		1.00	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Acetone	440		4.70	25.0	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Methyl tert-butyl Ether	180	E	0.73	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	2-Butanone	340		6.50	25.0	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Carbon Tetrachloride	110		0.97	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	2,2-Dichloropropane	150	E	1.30	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	cis-1,2-Dichloroethene	43.5		0.75	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Chloroform	74.8		0.84	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Benzene	93.5		0.79	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,2-Dichloroethane	48.0		0.79	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,2-Dichloropropane	56.0		0.91	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Bromodichloromethane	180	E	0.78	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	4-Methyl-2-Pentanone	360		3.60	25.0	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Toluene	190	E	0.78	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	t-1,3-Dichloropropene	120		0.65	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	cis-1,3-Dichloropropene	110		0.62	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,1,2-Trichloroethane	73.6		0.92	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	2-Hexanone	350		3.70	25.0	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Dibromochloromethane	75.7		0.87	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Tetrachloroethene	100		1.10	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Chlorobenzene	93.3		0.91	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,1,1,2-Tetrachloroethane	160	E	0.77	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Total Xylenes	250		2.02	15.0	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	m/p-Xylenes	120		1.20	10.0	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	o-Xylene	130		0.82	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Styrene	140		0.71	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Bromoform	99.1		0.86	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,2,3-Trichloropropane	110		1.20	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,2,4-Trimethylbenzene	180	E	0.64	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,4-Dichlorobenzene	25.9		1.60	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	n-Butylbenzene	57.3		1.50	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,2-Dichlorobenzene	53.4		1.50	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	1,2,4-Trichlorobenzene	56.9		3.00	5.00	ug/Kg
Q1872-23	HW0425-PT-VOA-	SOIL	Diisopropyl ether	110		0.55	5.00	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Voc :	4580				
			Total Concentration:	4580				
Client ID:	**HW0425-PT-VOA-SOILDL**							
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,1-Dichloroethene	150	D	4.00	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Acetone	370	D	19.0	100	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Methyl tert-butyl Ether	160	D	2.90	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	2-Butanone	320	D	26.2	100	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Carbon Tetrachloride	110	D	3.90	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	2,2-Dichloropropane	160	D	5.10	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	cis-1,2-Dichloroethene	43.3	D	3.00	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Chloroform	79.6	D	3.40	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Benzene	92.0	D	3.20	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,2-Dichloroethane	49.4	D	3.20	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,2-Dichloropropane	57.3	D	3.60	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Bromodichloromethane	180	D	3.10	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	4-Methyl-2-Pentanone	300	D	14.3	100	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Toluene	180	D	3.10	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	t-1,3-Dichloropropene	110	D	2.60	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	cis-1,3-Dichloropropene	95.1	D	2.50	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,1,2-Trichloroethane	72.4	D	3.70	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	2-Hexanone	290	D	14.8	100	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Dibromochloromethane	73.1	D	3.50	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Tetrachloroethene	100	D	4.20	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Chlorobenzene	93.7	D	3.60	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,1,1,2-Tetrachloroethane	160	D	3.10	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Total Xylenes	230	D	8.30	60.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	m/p-Xylenes	110	D	5.00	40.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	o-Xylene	120	D	3.30	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Styrene	120	D	2.80	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Bromoform	96.0	D	3.40	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,2,3-Trichloropropane	110	D	5.00	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,2,4-Trimethylbenzene	150	D	2.60	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,4-Dichlorobenzene	26.0	D	6.20	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	n-Butylbenzene	48.4	D	5.80	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,2-Dichlorobenzene	51.6	D	5.80	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	1,2,4-Trichlorobenzene	48.3	D	11.9	20.0	ug/Kg
Q1872-23DL	HW0425-PT-VOA-	SOIL	Diisopropyl ether	100	D	2.20	20.0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Voc :	4230				
			Total Concentration:	4230				

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1872-23	HW0425-PT-VOA-SOIL	1,2-Dichloroethane-d4	50	48.1	96	63	155
		Dibromofluoromethane	50	48.5	97	70	134
		Toluene-d8	50	50.8	102	74	123
		4-Bromofluorobenzene	50	47.4	95	38	136
Q1872-23DL	HW0425-PT-VOA-SOILDL	1,2-Dichloroethane-d4	50	50.8	102	63	155
		Dibromofluoromethane	50	49.7	99	70	134
		Toluene-d8	50	51.3	103	74	123
		4-Bromofluorobenzene	50	47.2	94	38	136
VY0428SBL01	VY0428SBL01	1,2-Dichloroethane-d4	50	51.3	103	63	155
		Dibromofluoromethane	50	50.8	102	70	134
		Toluene-d8	50	47.1	94	74	123
		4-Bromofluorobenzene	50	57.4	115	38	136
VY0428SBS01	VY0428SBS01	1,2-Dichloroethane-d4	50	49.5	99	63	155
		Dibromofluoromethane	50	50.8	101	70	134
		Toluene-d8	50	51.9	104	74	123
		4-Bromofluorobenzene	50	50.6	101	38	136
VY0428SBSD01	VY0428SBSD01	1,2-Dichloroethane-d4	50	48.0	96	63	155
		Dibromofluoromethane	50	50.0	100	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	48.8	98	38	136
VY0429SBL01	VY0429SBL01	1,2-Dichloroethane-d4	50	50.3	101	63	155
		Dibromofluoromethane	50	49.9	100	70	134
		Toluene-d8	50	47.6	95	74	123
		4-Bromofluorobenzene	50	56.5	113	38	136
VY0429SBS01	VY0429SBS01	1,2-Dichloroethane-d4	50	48.4	97	63	155
		Dibromofluoromethane	50	50.2	100	70	134
		Toluene-d8	50	50.9	102	74	123
		4-Bromofluorobenzene	50	49.6	99	38	136

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D **Datafile :** VY022023.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0428SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			64	136	
	Chloromethane	20	21.4	ug/Kg	107			70	130	
	Vinyl chloride	20	20.7	ug/Kg	104			72	129	
	Ethyl Acetate	20	18.8	ug/Kg	94			77	113	
	Isopropylacetate	20	18.6	ug/Kg	93			84	110	
	Bromomethane	20	21.9	ug/Kg	110			58	141	
	Chloroethane	20	21.3	ug/Kg	106			69	130	
	Tetrahydrofuran	100	91.2	ug/Kg	91			78	107	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101			81	123	
	Tert butyl alcohol	100	92.7	ug/Kg	93			24	175	
	Diethyl Ether	20	18.9	ug/Kg	95			87	115	
	1,1-Dichloroethene	20	20.3	ug/Kg	102			79	121	
	Acrolein	100	78.2	ug/Kg	78			54	141	
	Acrylonitrile	100	94.1	ug/Kg	94			68	136	
	Acetone	100	88.8	ug/Kg	89			60	131	
	Carbon disulfide	20	20.2	ug/Kg	101			45	154	
	Methyl tert-butyl Ether	20	18.8	ug/Kg	94			77	129	
	Methyl Acetate	20	19.6	ug/Kg	98			69	149	
	Methylene Chloride	20	19.9	ug/Kg	100			56	174	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			80	123	
	Vinyl Acetate	100	94.9	ug/Kg	95			86	117	
	1,1-Dichloroethane	20	20.5	ug/Kg	103			82	123	
	Cyclohexane	20	19.3	ug/Kg	97			76	122	
	2-Butanone	100	89.4	ug/Kg	89			69	131	
	Carbon Tetrachloride	20	20.9	ug/Kg	104			76	129	
	2,2-Dichloropropane	20	21.2	ug/Kg	106			62	143	
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100			82	123	
	Bromochloromethane	20	20.3	ug/Kg	102			80	127	
	Chloroform	20	21.0	ug/Kg	105			82	125	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			80	126	
	Methylcyclohexane	20	19.1	ug/Kg	96			77	123	
	1,1-Dichloropropene	20	20.0	ug/Kg	100			84	119	
	Benzene	20	21.0	ug/Kg	105			84	121	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			81	126	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			83	122	
	Dibromomethane	20	20.2	ug/Kg	101			83	119	
	Bromodichloromethane	20	21.0	ug/Kg	105			82	123	
	4-Methyl-2-Pentanone	100	92.8	ug/Kg	93			70	135	
	Methyl methacrylate	20	18.4	ug/Kg	92			77	121	
	Toluene	20	21.1	ug/Kg	106			83	122	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102			82	125	
	1,3-Dichloropropane	20	20.1	ug/Kg	101			80	125	
	2-Chloroethyl vinyl ether	100	90.9	ug/Kg	91			36	195	
	2-Hexanone	100	89.9	ug/Kg	90			66	138	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D **Datafile :** VY022023.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0428SBS01	Dibromochloromethane	20	20.5	ug/Kg	103			79	125	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			80	125	
	Tetrachloroethene	20	21.1	ug/Kg	106			83	125	
	Chlorobenzene	20	20.5	ug/Kg	103			84	122	
	1,1,1,2-Tetrachloroethane	20	20.6	ug/Kg	103			84	123	
	Hexachloroethane	20	19.9	ug/Kg	100			76	121	
	Ethyl Benzene	20	20.0	ug/Kg	100			82	124	
	m/p-Xylenes	40	41.2	ug/Kg	103			83	124	
	o-Xylene	20	20.2	ug/Kg	101			83	123	
	Styrene	20	20.2	ug/Kg	101			82	124	
	Bromoform	20	20.4	ug/Kg	102			75	127	
	Isopropylbenzene	20	19.5	ug/Kg	98			82	124	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96			77	127	
	1,2,3-Trichloropropane	20	18.4	ug/Kg	92			58	144	
	Bromobenzene	20	20.1	ug/Kg	101			83	120	
	N-propylbenzene	20	20.0	ug/Kg	100			81	123	
	2-Chlorotoluene	20	20.1	ug/Kg	101			84	118	
	1,3,5-Trimethylbenzene	20	20.0	ug/Kg	100			82	124	
	4-Chlorotoluene	20	20.6	ug/Kg	103			82	122	
	tert-Butylbenzene	20	19.5	ug/Kg	98			81	125	
	1,2,4-Trimethylbenzene	20	20.0	ug/Kg	100			81	125	
	Sec-butylbenzene	20	19.7	ug/Kg	99			80	124	
	p-Isopropyltoluene	20	19.8	ug/Kg	99			81	125	
	1,3-Dichlorobenzene	20	20.1	ug/Kg	101			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	n-Butylbenzene	20	18.9	ug/Kg	95			78	126	
	1,2-Dichlorobenzene	20	19.9	ug/Kg	100			83	124	
	1,2-Dibromo-3-Chloropropane	20	16.7	ug/Kg	84			66	134	
	1,2,4-Trichlorobenzene	20	18.5	ug/Kg	93			78	127	
	Hexachlorobutadiene	20	19.8	ug/Kg	99			80	123	
	Naphthalene	20	16.3	ug/Kg	81			70	134	
	1,2,3-Trichlorobenzene	20	18.4	ug/Kg	92			70	137	
	N-amyl acetate	20	17.0	ug/Kg	85			85	115	
	Methyl iodide	20	19.7	ug/Kg	99			57	135	
	Allyl chloride	20	19.7	ug/Kg	99			89	113	
	Methacrylonitrile	20	17.9	ug/Kg	90			75	120	
	trans-1,4-Dichloro-2-butene	20	18.4	ug/Kg	92			74	115	
	Diisopropyl ether	20	20.5	ug/Kg	103			88	125	
	1,4-Dioxane	400	380	ug/Kg	95			61	144	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D **Datafile :** VY022024.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0428SBSD01	Dichlorodifluoromethane	20	19.3	ug/Kg	97	1		64	136	20
	Chloromethane	20	20.5	ug/Kg	103	4		70	130	20
	Vinyl chloride	20	19.7	ug/Kg	99	5		72	129	20
	Ethyl Acetate	20	20.2	ug/Kg	101	7		77	113	20
	Isopropylacetate	20	19.4	ug/Kg	97	4		84	110	20
	Bromomethane	20	20.2	ug/Kg	101	9		58	141	20
	Chloroethane	20	19.3	ug/Kg	97	9		69	130	20
	Tetrahydrofuran	100	95.0	ug/Kg	95	4		78	107	20
	Trichlorofluoromethane	20	19.5	ug/Kg	98	6		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	1		81	123	20
	Tert butyl alcohol	100	94.5	ug/Kg	95	2		24	175	20
	Diethyl Ether	20	18.7	ug/Kg	94	1		87	115	20
	1,1-Dichloroethene	20	19.6	ug/Kg	98	4		79	121	20
	Acrolein	100	80.4	ug/Kg	80	3		54	141	20
	Acrylonitrile	100	94.6	ug/Kg	95	1		68	136	20
	Acetone	100	91.7	ug/Kg	92	3		60	131	20
	Carbon disulfide	20	19.6	ug/Kg	98	3		45	154	20
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95	1		77	129	20
	Methyl Acetate	20	20.4	ug/Kg	102	4		69	149	20
	Methylene Chloride	20	19.6	ug/Kg	98	2		56	174	20
	trans-1,2-Dichloroethene	20	20.0	ug/Kg	100	2		80	123	20
	Vinyl Acetate	100	95.9	ug/Kg	96	1		86	117	20
	1,1-Dichloroethane	20	19.7	ug/Kg	99	4		82	123	20
	Cyclohexane	20	18.8	ug/Kg	94	3		76	122	20
	2-Butanone	100	91.2	ug/Kg	91	2		69	131	20
	Carbon Tetrachloride	20	19.8	ug/Kg	99	5		76	129	20
	2,2-Dichloropropane	20	20.1	ug/Kg	101	5		62	143	20
	cis-1,2-Dichloroethene	20	19.6	ug/Kg	98	2		82	123	20
	Bromochloromethane	20	19.3	ug/Kg	97	5		80	127	20
	Chloroform	20	20.5	ug/Kg	103	2		82	125	20
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101	2		80	126	20
	Methylcyclohexane	20	18.6	ug/Kg	93	3		77	123	20
	1,1-Dichloropropene	20	20.3	ug/Kg	102	2		84	119	20
	Benzene	20	20.4	ug/Kg	102	3		84	121	20
	1,2-Dichloroethane	20	20.6	ug/Kg	103	1		81	126	20
	Trichloroethene	20	20.5	ug/Kg	103	1		83	122	20
	1,2-Dichloropropane	20	20.2	ug/Kg	101	1		83	122	20
	Dibromomethane	20	20.4	ug/Kg	102	1		83	119	20
	Bromodichloromethane	20	20.5	ug/Kg	103	2		82	123	20
	4-Methyl-2-Pentanone	100	96.4	ug/Kg	96	3		70	135	20
	Methyl methacrylate	20	18.7	ug/Kg	94	2		77	121	20
	Toluene	20	20.7	ug/Kg	104	2		83	122	20
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100	1		78	124	20
	cis-1,3-Dichloropropene	20	20.1	ug/Kg	101	1		81	122	20
	1,1,2-Trichloroethane	20	21.0	ug/Kg	105	3		82	125	20
	1,3-Dichloropropane	20	20.1	ug/Kg	101	0		80	125	20
	2-Chloroethyl vinyl ether	100	95.4	ug/Kg	95	4		36	195	20
	2-Hexanone	100	95.4	ug/Kg	95	5		66	138	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D **Datafile :** VY022024.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0428SBSD01	Dibromochloromethane	20	20.3	ug/Kg	102	1		79	125	20
	1,2-Dibromoethane	20	20.7	ug/Kg	104	4		80	125	20
	Tetrachloroethene	20	20.5	ug/Kg	103	3		83	125	20
	Chlorobenzene	20	19.9	ug/Kg	100	3		84	122	20
	1,1,1,2-Tetrachloroethane	20	20.6	ug/Kg	103	0		84	123	20
	Hexachloroethane	20	19.6	ug/Kg	98	2		76	121	20
	Ethyl Benzene	20	19.7	ug/Kg	99	1		82	124	20
	m/p-Xylenes	40	40.4	ug/Kg	101	2		83	124	20
	o-Xylene	20	19.9	ug/Kg	100	1		83	123	20
	Styrene	20	20.2	ug/Kg	101	0		82	124	20
	Bromoform	20	20.6	ug/Kg	103	1		75	127	20
	Isopropylbenzene	20	19.5	ug/Kg	98	0		82	124	20
	1,1,2,2-Tetrachloroethane	20	19.7	ug/Kg	99	3		77	127	20
	1,2,3-Trichloropropane	20	18.8	ug/Kg	94	2		58	144	20
	Bromobenzene	20	20.4	ug/Kg	102	1		83	120	20
	N-propylbenzene	20	19.8	ug/Kg	99	1		81	123	20
	2-Chlorotoluene	20	19.8	ug/Kg	99	2		84	118	20
	1,3,5-Trimethylbenzene	20	19.8	ug/Kg	99	1		82	124	20
	4-Chlorotoluene	20	20.3	ug/Kg	102	1		82	122	20
	tert-Butylbenzene	20	19.4	ug/Kg	97	1		81	125	20
	1,2,4-Trimethylbenzene	20	20.0	ug/Kg	100	0		81	125	20
	Sec-butylbenzene	20	19.6	ug/Kg	98	1		80	124	20
	p-Isopropyltoluene	20	19.8	ug/Kg	99	0		81	125	20
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100	1		83	122	20
	1,4-Dichlorobenzene	20	20.4	ug/Kg	102	2		84	121	20
	n-Butylbenzene	20	19.0	ug/Kg	95	0		78	126	20
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101	1		83	124	20
	1,2-Dibromo-3-Chloropropane	20	19.2	ug/Kg	96	13		66	134	20
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97	4		78	127	20
	Hexachlorobutadiene	20	20.2	ug/Kg	101	2		80	123	20
	Naphthalene	20	17.7	ug/Kg	89	9		70	134	20
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98	6		70	137	20
	N-amyl acetate	20	18.0	ug/Kg	90	6		85	115	20
	Methyl iodide	20	20.0	ug/Kg	100	1		57	135	20
	Allyl chloride	20	19.0	ug/Kg	95	4		89	113	20
	Methacrylonitrile	20	18.4	ug/Kg	92	2		75	120	20
	trans-1,4-Dichloro-2-butene	20	19.0	ug/Kg	95	3		74	115	20
	Diisopropyl ether	20	19.8	ug/Kg	99	4		88	125	20
	1,4-Dioxane	400	400	ug/Kg	100	5		61	144	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D **Datafile :** VY022048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0429SBS01	Dichlorodifluoromethane	20	19.2	ug/Kg	96			64	136	
	Chloromethane	20	20.3	ug/Kg	102			70	130	
	Vinyl chloride	20	19.0	ug/Kg	95			72	129	
	Ethyl Acetate	20	18.3	ug/Kg	92			77	113	
	Isopropylacetate	20	18.2	ug/Kg	91			84	110	
	Bromomethane	20	19.5	ug/Kg	98			58	141	
	Chloroethane	20	18.9	ug/Kg	95			69	130	
	Tetrahydrofuran	100	88.8	ug/Kg	89			78	107	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			69	134	
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/Kg	98			81	123	
	Tert butyl alcohol	100	88.5	ug/Kg	89			24	175	
	Diethyl Ether	20	18.8	ug/Kg	94			87	115	
	1,1-Dichloroethene	20	19.8	ug/Kg	99			79	121	
	Acrolein	100	88.6	ug/Kg	89			54	141	
	Acrylonitrile	100	92.4	ug/Kg	92			68	136	
	Acetone	100	87.0	ug/Kg	87			60	131	
	Carbon disulfide	20	19.6	ug/Kg	98			45	154	
	Methyl tert-butyl Ether	20	18.3	ug/Kg	92			77	129	
	Methyl Acetate	20	20.7	ug/Kg	104			69	149	
	Methylene Chloride	20	18.7	ug/Kg	94			56	174	
	trans-1,2-Dichloroethene	20	19.5	ug/Kg	98			80	123	
	Vinyl Acetate	100	91.2	ug/Kg	91			86	117	
	1,1-Dichloroethane	20	19.3	ug/Kg	97			82	123	
	Cyclohexane	20	18.7	ug/Kg	94			76	122	
	2-Butanone	100	88.4	ug/Kg	88			69	131	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			76	129	
	2,2-Dichloropropane	20	19.8	ug/Kg	99			62	143	
	cis-1,2-Dichloroethene	20	19.6	ug/Kg	98			82	123	
	Bromochloromethane	20	19.1	ug/Kg	96			80	127	
	Chloroform	20	20.0	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	19.9	ug/Kg	100			80	126	
	Methylcyclohexane	20	18.2	ug/Kg	91			77	123	
	1,1-Dichloropropene	20	19.6	ug/Kg	98			84	119	
	Benzene	20	20.2	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	19.9	ug/Kg	100			81	126	
	Trichloroethene	20	20.3	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	20.2	ug/Kg	101			83	122	
	Dibromomethane	20	19.6	ug/Kg	98			83	119	
	Bromodichloromethane	20	20.1	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	91.1	ug/Kg	91			70	135	
	Methyl methacrylate	20	17.5	ug/Kg	88			77	121	
	Toluene	20	20.1	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.0	ug/Kg	95			78	124	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			81	122	
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101			82	125	
	1,3-Dichloropropane	20	19.9	ug/Kg	100			80	125	
	2-Chloroethyl vinyl ether	100	91.2	ug/Kg	91			36	195	
	2-Hexanone	100	87.0	ug/Kg	87			66	138	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D **Datafile :** VY022048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0429SBS01	Dibromochloromethane	20	19.9	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	19.8	ug/Kg	99			80	125	
	Tetrachloroethene	20	20.9	ug/Kg	104			83	125	
	Chlorobenzene	20	19.8	ug/Kg	99			84	122	
	1,1,1,2-Tetrachloroethane	20	20.1	ug/Kg	101			84	123	
	Hexachloroethane	20	19.5	ug/Kg	98			76	121	
	Ethyl Benzene	20	19.4	ug/Kg	97			82	124	
	m/p-Xylenes	40	40.2	ug/Kg	101			83	124	
	o-Xylene	20	19.2	ug/Kg	96			83	123	
	Styrene	20	19.8	ug/Kg	99			82	124	
	Bromoform	20	19.4	ug/Kg	97			75	127	
	Isopropylbenzene	20	19.1	ug/Kg	96			82	124	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/Kg	96			77	127	
	1,2,3-Trichloropropane	20	18.9	ug/Kg	95			58	144	
	Bromobenzene	20	19.7	ug/Kg	99			83	120	
	N-propylbenzene	20	19.6	ug/Kg	98			81	123	
	2-Chlorotoluene	20	19.6	ug/Kg	98			84	118	
	1,3,5-Trimethylbenzene	20	19.5	ug/Kg	98			82	124	
	4-Chlorotoluene	20	19.9	ug/Kg	100			82	122	
	tert-Butylbenzene	20	18.9	ug/Kg	95			81	125	
	1,2,4-Trimethylbenzene	20	19.6	ug/Kg	98			81	125	
	Sec-butylbenzene	20	19.6	ug/Kg	98			80	124	
	p-Isopropyltoluene	20	19.4	ug/Kg	97			81	125	
	1,3-Dichlorobenzene	20	19.6	ug/Kg	98			83	122	
	1,4-Dichlorobenzene	20	19.5	ug/Kg	98			84	121	
	n-Butylbenzene	20	18.2	ug/Kg	91			78	126	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			83	124	
	1,2-Dibromo-3-Chloropropane	20	17.4	ug/Kg	87			66	134	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			78	127	
	Hexachlorobutadiene	20	18.7	ug/Kg	94			80	123	
	Naphthalene	20	16.0	ug/Kg	80			70	134	
	1,2,3-Trichlorobenzene	20	18.3	ug/Kg	92			70	137	
	N-amyl acetate	20	16.7	ug/Kg	84		*	85	115	
	Methyl iodide	20	18.5	ug/Kg	93			57	135	
	Allyl chloride	20	19.0	ug/Kg	95			89	113	
	Methacrylonitrile	20	18.6	ug/Kg	93			75	120	
	trans-1,4-Dichloro-2-butene	20	18.6	ug/Kg	93			74	115	
	Diisopropyl ether	20	19.7	ug/Kg	99			88	125	
	1,4-Dioxane	400	360	ug/Kg	90			61	144	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0428SBL01

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022022.D Lab Sample ID: VY0428SBL01

Date Analyzed: 04/28/2025 Time Analyzed: 11:08

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
VY0428SBS01	VY0428SBS01	VY022023.D	04/28/2025
VY0428SBSD01	VY0428SBSD01	VY022024.D	04/28/2025
HW0425-PT-VOA-SOIL	Q1872-23	VY022025.D	04/28/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0429SBL01

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022047.D Lab Sample ID: VY0429SBL01

Date Analyzed: 04/29/2025 Time Analyzed: 10:00

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
VY0429SBS01	VY0429SBS01	VY022048.D	04/29/2025
HW0425-PT-VOA-SOILDL	Q1872-23DL	VY022051.D	04/29/2025

COMMENTS:

Alliance TECHNICAL GROUP
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY021952.D BFB Injection Date: 04/22/2025

Instrument ID: MSVOA_Y BFB Injection Time: 11:33

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	49.7
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	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	7.1 (8) 1
176	95.0 - 101.0% of mass 174	84.9 (96.1) 1
177	5.0 - 9.0% of mass 176	5.5 (6.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY021953.D	04/22/2025	13:39
VSTDICC010	VSTDICC010	VY021954.D	04/22/2025	14:44
VSTDICC020	VSTDICC020	VY021955.D	04/22/2025	15:07
VSTDICCC050	VSTDICCC050	VY021956.D	04/22/2025	15:29
VSTDICC100	VSTDICC100	VY021957.D	04/22/2025	15:52
VSTDICC150	VSTDICC150	VY021958.D	04/22/2025	16:15

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022020.D BFB Injection Date: 04/28/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:29

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	47.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.6 (1.8) 1
174	50.0 - 100.0% of mass 95	88.6
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	85.9 (96.9) 1
177	5.0 - 9.0% of mass 176	5.3 (6.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022021.D	04/28/2025	09:59
VY0428SBL01	VY0428SBL01	VY022022.D	04/28/2025	11:08
VY0428SBS01	VY0428SBS01	VY022023.D	04/28/2025	11:40
VY0428SBSD01	VY0428SBSD01	VY022024.D	04/28/2025	12:02
HW0425-PT-VOA-SOIL	Q1872-23	VY022025.D	04/28/2025	12:41

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022045.D BFB Injection Date: 04/29/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:20

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	15.7
75	30.0 - 60.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.5 (1.6) 1
174	50.0 - 100.0% of mass 95	92.9
175	5.0 - 9.0% of mass 174	7 (7.5) 1
176	95.0 - 101.0% of mass 174	88.9 (95.7) 1
177	5.0 - 9.0% of mass 176	5.8 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022046.D	04/29/2025	09:28
VY0429SBL01	VY0429SBL01	VY022047.D	04/29/2025	10:00
VY0429SBS01	VY0429SBS01	VY022048.D	04/29/2025	10:31
HW0425-PT-VOA-SOILDL	Q1872-23DL	VY022051.D	04/29/2025	12:22

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022021.D Date Analyzed: 04/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:59

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	316866	7.71	463292	8.62	436582	11.42
UPPER LIMIT	633732	8.207	926584	9.116	873164	11.92
LOWER LIMIT	158433	7.207	231646	8.116	218291	10.92
EPA SAMPLE NO.						
HW0425-PT-VOA-SOIL	301694	7.71	467949	8.62	436036	11.41
VY0428SBL01	311923	7.71	578371	8.62	493590	11.42
VY0428SBS01	288803	7.71	451635	8.62	414911	11.41
VY0428SBSD01	304169	7.71	466723	8.62	430101	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022021.D Date Analyzed: 04/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:59

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

	IS4 AREA #	RT #				
12 HOUR STD	238558	13.346				
UPPER LIMIT	477116	13.846				
LOWER LIMIT	119279	12.846				
EPA SAMPLE NO.						
HW0425-PT-VOA-SOIL	221687	13.35				
VY0428SBL01	183874	13.35				
VY0428SBS01	223411	13.35				
VY0428SBSD01	228742	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022046.D Date Analyzed: 04/29/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:28

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	330337	7.71	485397	8.62	453549	11.42
UPPER LIMIT	660674	8.207	970794	9.116	907098	11.92
LOWER LIMIT	165169	7.207	242699	8.116	226775	10.92
EPA SAMPLE NO.						
HW0425-PT-VOA-SOILDL	274790	7.71	444877	8.62	398616	11.41
VY0429SBL01	323132	7.71	602161	8.62	529726	11.42
VY0429SBS01	295160	7.71	455592	8.62	411306	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: VY022046.D Date Analyzed: 04/29/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:28

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

	IS4 AREA #	RT #				
12 HOUR STD	245911	13.346				
UPPER LIMIT	491822	13.846				
LOWER LIMIT	122956	12.846				
EPA SAMPLE NO.						
HW0425-PT-VOA-SOILDL	202989	13.35				
VY0429SBL01	203699	13.35				
VY0429SBS01	220609	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:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022025.D	1		04/28/25 12:41	VY042825

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
141-78-6	Ethyl Acetate	1.30	U	1.30	5.00	ug/Kg
108-21-4	Isopropyl Acetate	0.91	U	0.91	5.00	ug/Kg
74-83-9	Bromomethane	1.20	J	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
109-99-9	Tetrahydrofuran	4.70	U	4.70	25.0	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
75-65-0	Tert butyl alcohol	13.7	U	13.7	25.0	ug/Kg
60-29-7	Diethyl Ether	0.77	U	0.77	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	150		1.00	5.00	ug/Kg
107-02-8	Acrolein	8.80	U	8.80	25.0	ug/Kg
107-13-1	Acrylonitrile	5.00	U	5.00	25.0	ug/Kg
67-64-1	Acetone	440		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	180	E	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
108-05-4	Vinyl Acetate	4.90	U	4.90	25.0	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	340		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	110		0.97	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	150	E	1.30	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	43.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	74.8		0.84	5.00	ug/Kg

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022025.D	1		04/28/25 12:41	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
563-58-6	1,1-Dichloropropene	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	93.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	48.0		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	56.0		0.91	5.00	ug/Kg
74-95-3	Dibromomethane	0.89	U	0.89	5.00	ug/Kg
75-27-4	Bromodichloromethane	180	E	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	360		3.60	25.0	ug/Kg
80-62-6	Methyl methacrylate	0.74	U	0.74	5.00	ug/Kg
108-88-3	Toluene	190	E	0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	120		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	110		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	73.6		0.92	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	3.80	U	3.80	25.0	ug/Kg
591-78-6	2-Hexanone	350		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	75.7		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	100		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	93.3		0.91	5.00	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	160	E	0.77	5.00	ug/Kg
67-72-1	Hexachloroethane	1.10	U	1.10	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	120		1.20	10.0	ug/Kg
1330-20-7	Total Xylenes	250		2.02	15.0	ug/Kg
95-47-6	o-Xylene	130		0.82	5.00	ug/Kg
100-42-5	Styrene	140		0.71	5.00	ug/Kg
75-25-2	Bromoform	99.1		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022025.D	1		04/28/25 12:41	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	110		1.20	5.00	ug/Kg
108-86-1	Bromobenzene	1.20	U	1.20	5.00	ug/Kg
103-65-1	n-propylbenzene	0.73	U	0.73	5.00	ug/Kg
95-49-8	2-Chlorotoluene	0.68	U	0.68	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.82	U	0.82	5.00	ug/Kg
106-43-4	4-Chlorotoluene	1.20	U	1.20	5.00	ug/Kg
98-06-6	tert-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	180	E	0.64	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.66	U	0.66	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.62	U	0.62	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	25.9		1.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	57.3		1.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	53.4		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	56.9		3.00	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	1.90	U	1.90	5.00	ug/Kg
91-20-3	Naphthalene	2.60	U	2.60	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
628-63-7	N-amyl acetate	0.97	U	0.97	5.00	ug/Kg
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/Kg
107-05-1	Allyl chloride	0.78	U	0.78	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	1.10	U	1.10	5.00	ug/Kg
126-98-7	Methacrylonitrile	1.80	U	1.80	5.00	ug/Kg
108-20-3	Diisopropyl ether	110		0.55	5.00	ug/Kg
123-91-1	1,4-Dioxane	48.1	U	48.1	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	50.8		74 - 123	102%	SPK: 50

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022025.D	1		04/28/25 12:41	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	47.4		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	302000	7.707			
540-36-3	1,4-Difluorobenzene	468000	8.616			
3114-55-4	Chlorobenzene-d5	436000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	222000	13.346			

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\VY042825\
Data File : VY022025.D
Acq On : 28 Apr 2025 12:41
Operator : SY/MD
Sample : Q1872-23
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Quant Time: Apr 29 03:53:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	301694	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	467949	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	436036	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	221687	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	134135	48.134	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.260%				
35) Dibromofluoromethane	7.634	113	149977	48.512	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.020%				
50) Toluene-d8	10.109	98	592466	50.834	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.660%				
62) 4-Bromofluorobenzene	12.408	95	185929	47.388	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.780%				
Target Compounds							Qvalue
5) Bromomethane	2.598	94	4684	1.209	ug/l		89
12) 1,1-Dichloroethene	3.787	96	435641	145.254	ug/l		99
16) Acetone	3.872	43	156040	444.402	ug/l		95
19) Methyl tert-butyl Ether	5.116	73	1192964	177.716	ug/l		99
20) Methylene Chloride	4.610	84	5516	1.565	ug/l		92
22) Diisopropyl ether	6.018	45	864255	111.208	ug/l		95
25) 2-Butanone	6.890	43	217432	342.297	ug/l		100
26) 2,2-Dichloropropane	6.884	77	710487	150.482	ug/l		95
27) cis-1,2-Dichloroethene	6.884	96	163278	43.475	ug/l		77
30) Chloroform	7.421	83	446922	74.796	ug/l		99
38) Carbon Tetrachloride	7.817	117	535378	107.890	ug/l		99
40) Benzene	8.079	78	1214121	93.528	ug/l		100
42) 1,2-Dichloroethane	8.158	62	154187	47.974	ug/l		99
45) 1,2-Dichloropropane	9.140	63	160767	56.002	ug/l		99
47) Bromodichloromethane	9.420	83	796926	177.515	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	544884	362.902	ug/l		99
52) Toluene	10.170	92	1630128	193.996	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	451255	117.187	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	484173	105.775	ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	176727	73.622	ug/l		99
59) 2-Hexanone	10.761	43	342461	345.801	ug/l		99
60) Dibromochloromethane	10.914	129	251529	75.684	ug/l		100
64) Tetrachloroethene	10.646	164	417730	101.553	ug/l		98
65) Chlorobenzene	11.444	112	909935	93.318	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	533734	155.478	ug/l		99
68) m/p-Xylenes	11.627	106	777678	122.523	ug/l		99
69) o-Xylene	11.956	106	770636	131.730	ug/l		98
70) Styrene	11.969	104	1335048	135.916	ug/l		99
71) Bromoform	12.133	173	197793	99.103	ug/l	#	99
76) 1,2,3-Trichloropropane	12.560	75	207793	109.430	ug/l	#	100
84) 1,2,4-Trimethylbenzene	13.042	105	2183983	178.923	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	195134	25.920	ug/l		99
89) n-Butylbenzene	13.621	91	696238	57.277	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	354246	53.433	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	213810	56.911	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022025.D
Acq On : 28 Apr 2025 12:41
Operator : SY/MD
Sample : Q1872-23
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Quant Time: Apr 29 03:53:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

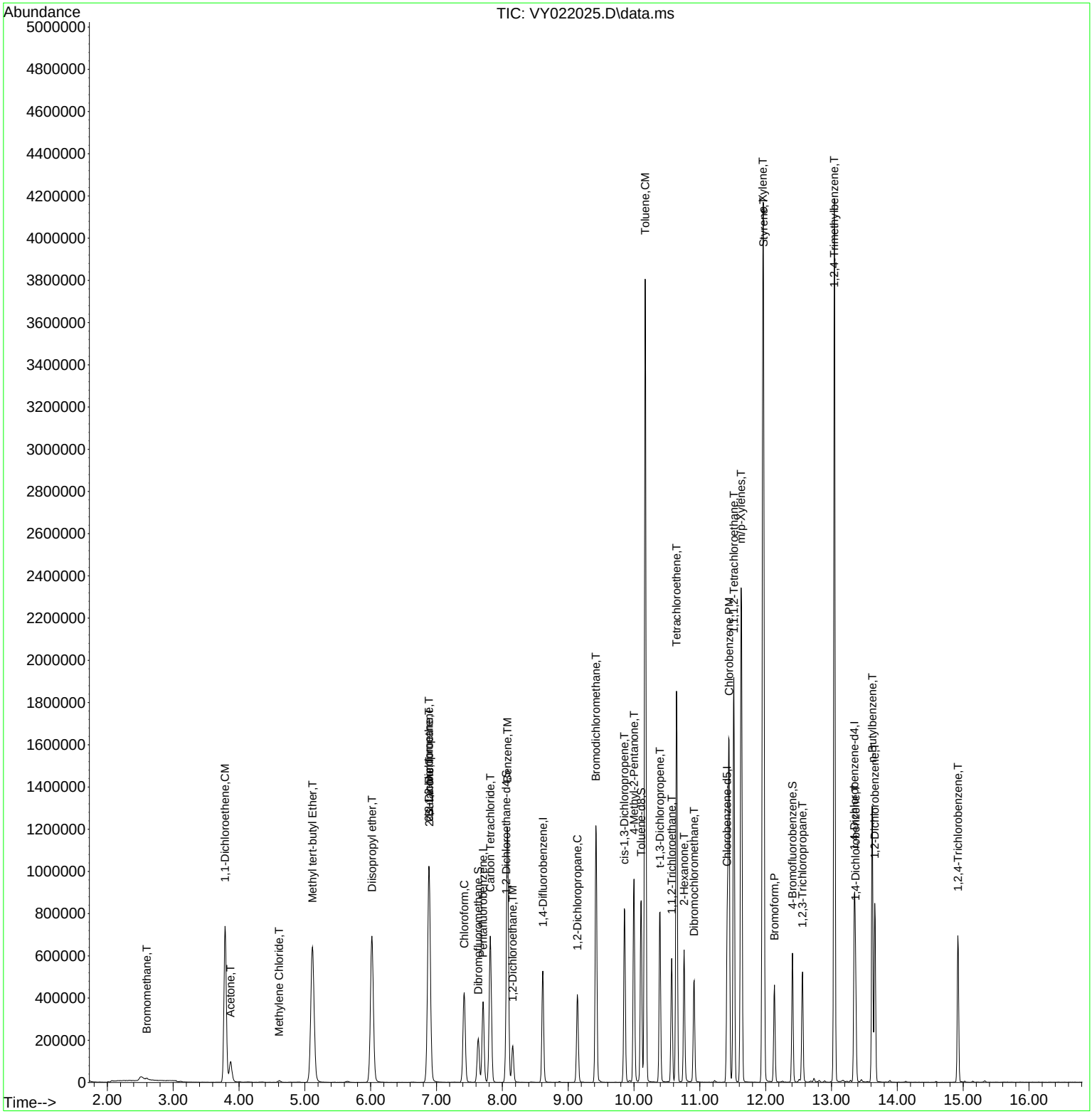
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

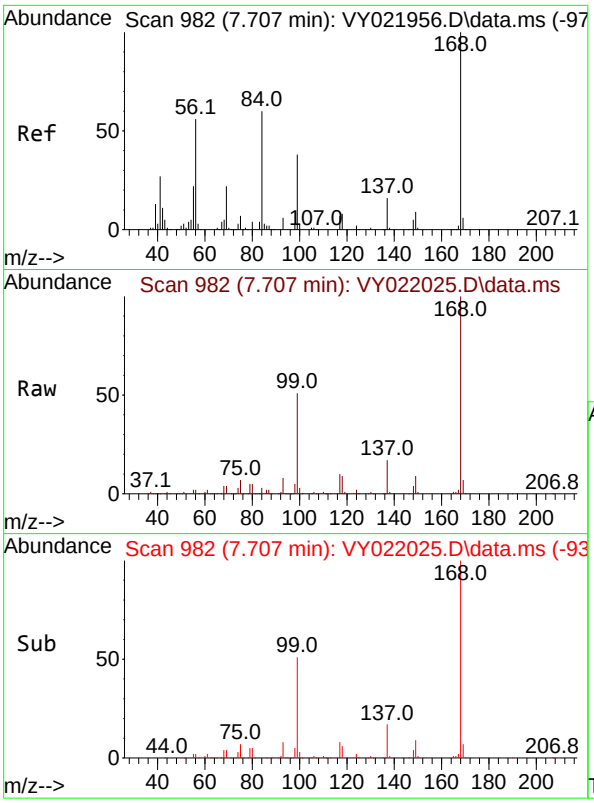
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022025.D
Acq On : 28 Apr 2025 12:41
Operator : SY/MD
Sample : Q1872-23
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Quant Time: Apr 29 03:53:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



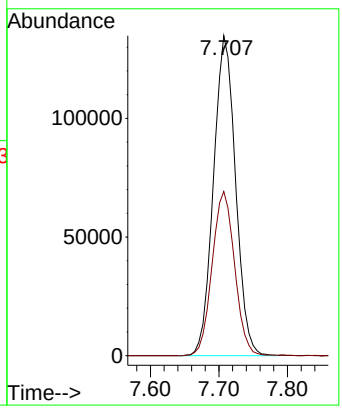


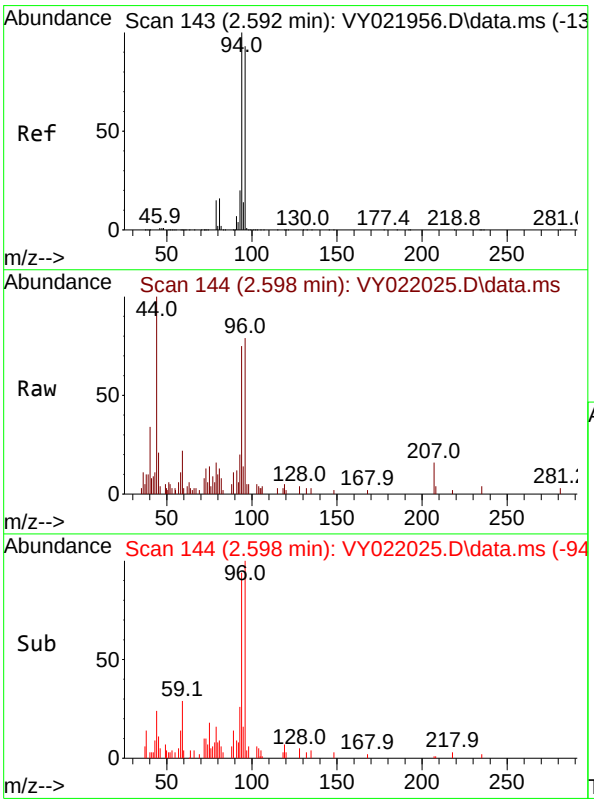
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:168 Resp: 301694

Ion	Ratio	Lower	Upper
168	100		
99	51.3	43.1	64.7

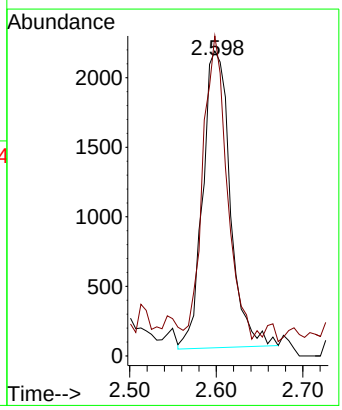


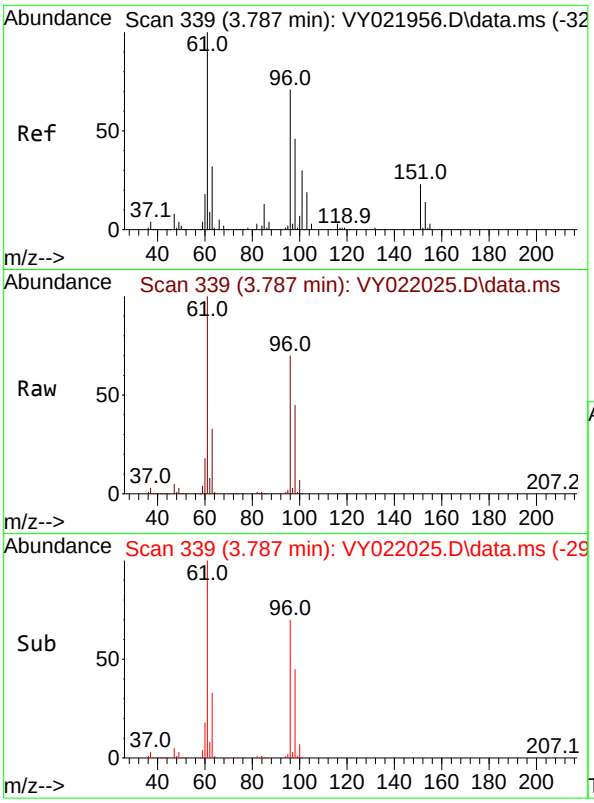


#5
Bromomethane
Concen: 1.209 ug/l
RT: 2.598 min Scan# 144
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 94 Resp: 4684

Ion	Ratio	Lower	Upper
94	100		
96	103.8	74.6	111.8



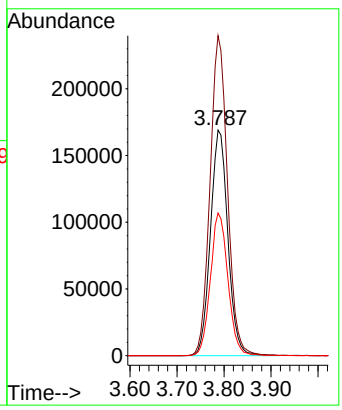


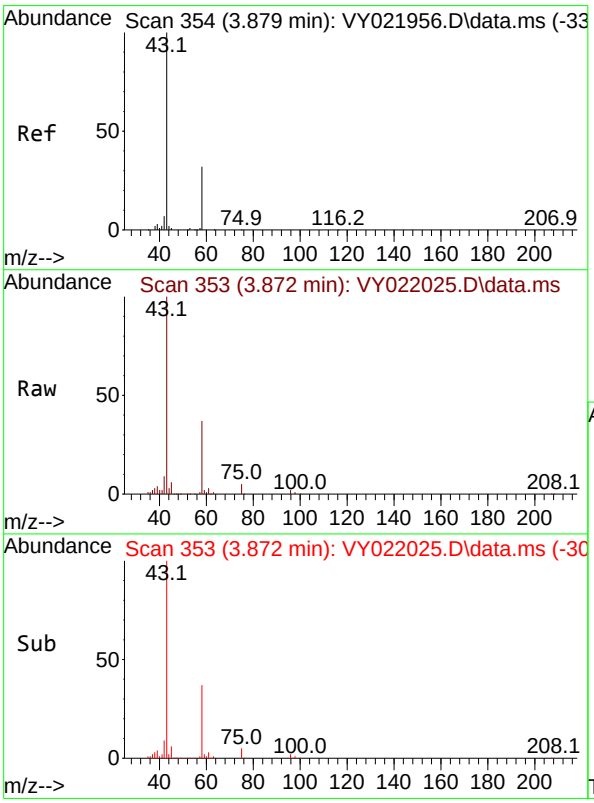
#12
1,1-Dichloroethene
Concen: 145.254 ug/l
RT: 3.787 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 96 Resp: 435641

Ion	Ratio	Lower	Upper
96	100		
61	141.9	113.0	169.4
98	63.2	51.4	77.2

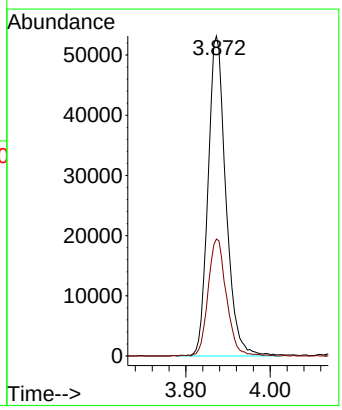


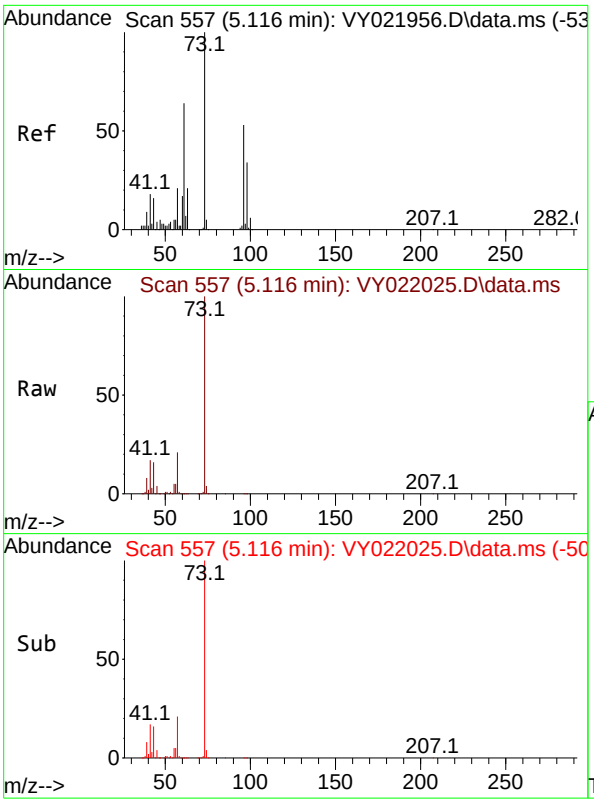


#16
Acetone
Concen: 444.402 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.007 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 43 Resp: 156040

Ion	Ratio	Lower	Upper
43	100		
58	36.6	27.0	40.4



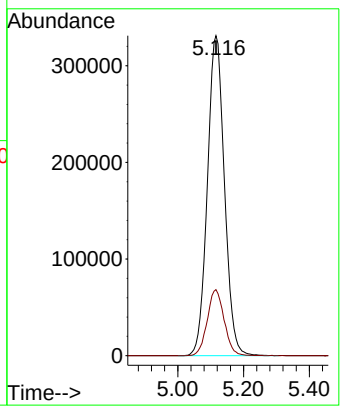


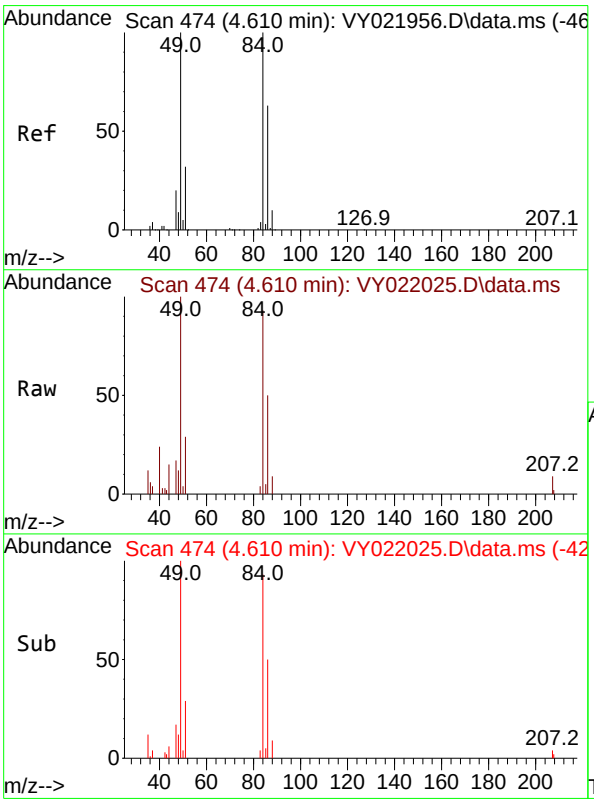
#19
Methyl tert-butyl Ether
Concen: 177.716 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 73 Resp: 1192964

Ion	Ratio	Lower	Upper
73	100		
57	20.7	16.9	25.3

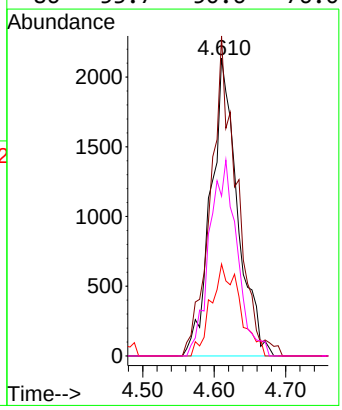


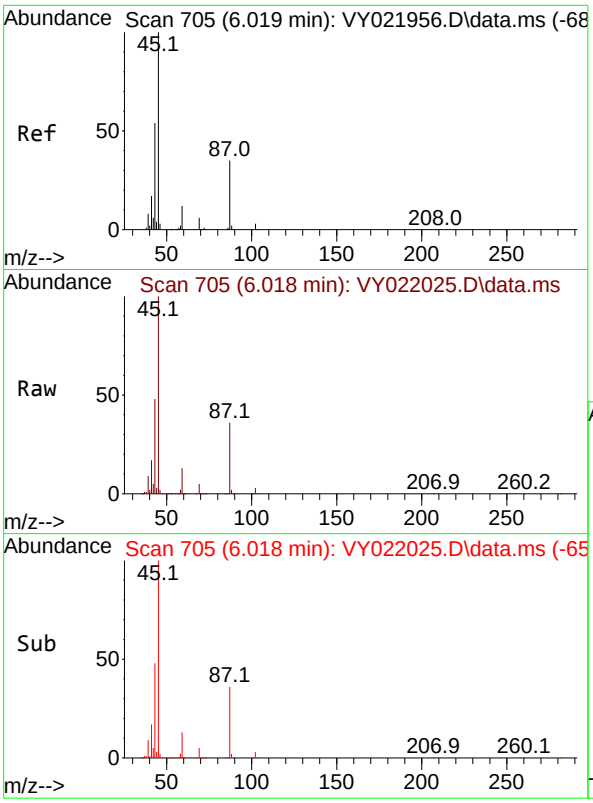


#20
Methylene Chloride
Concen: 1.565 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 84 Resp: 5516

Ion	Ratio	Lower	Upper
84	100		
49	107.5	79.9	119.9
51	30.9	25.4	38.0
86	53.7	50.6	76.0



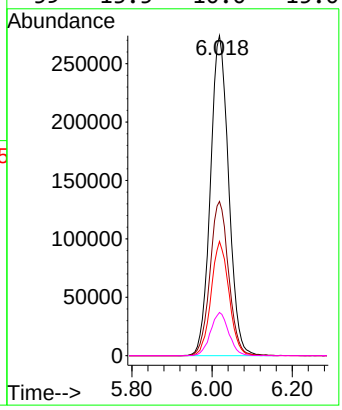


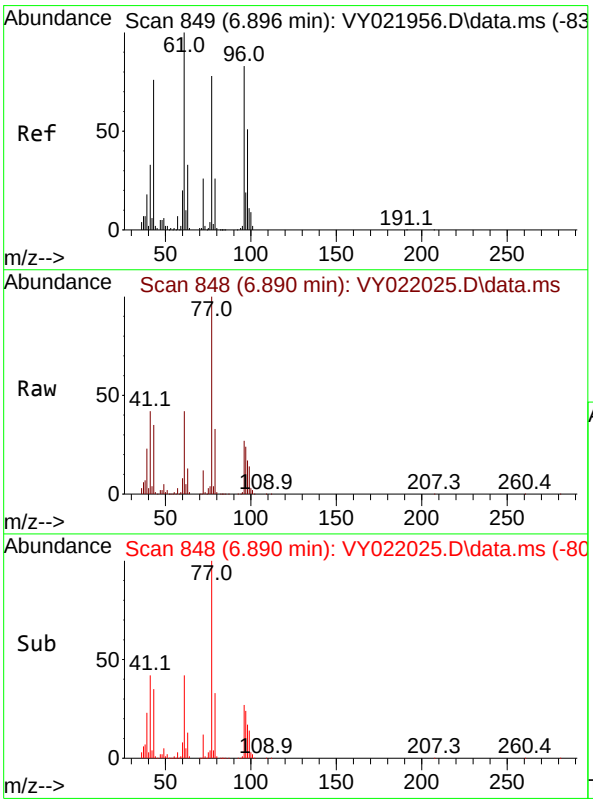
#22
Diisopropyl ether
Concen: 111.208 ug/l
RT: 6.018 min Scan# 7
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 45 Resp: 864255

Ion	Ratio	Lower	Upper
45	100		
43	48.2	43.6	65.4
87	35.7	28.2	42.4
59	13.5	10.0	15.0

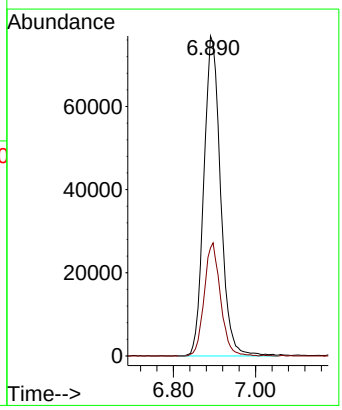


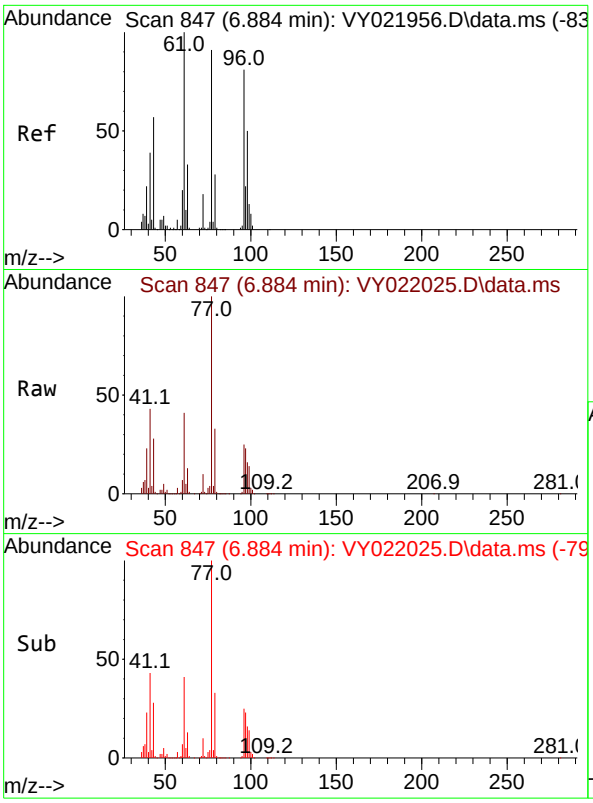


#25
2-Butanone
Concen: 342.297 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 43 Resp: 217432

Ion	Ratio	Lower	Upper
43	100		
72	33.8	27.0	40.4



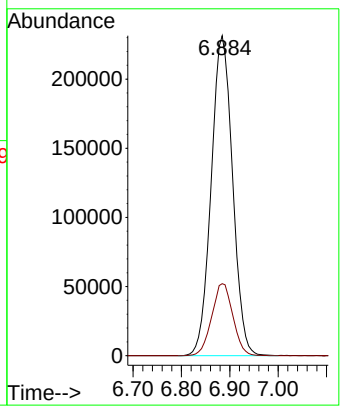


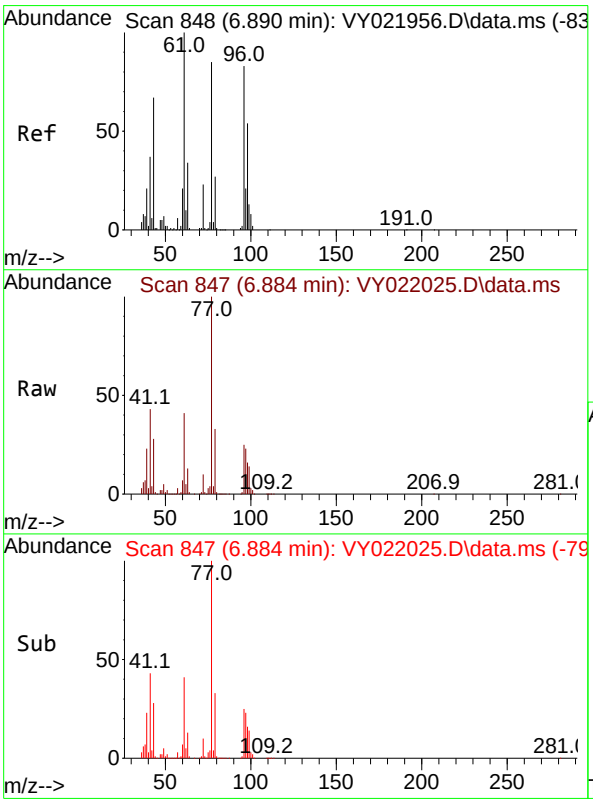
#26
2,2-Dichloropropane
Concen: 150.482 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 77 Resp: 710487

Ion	Ratio	Lower	Upper
77	100		
97	22.3	12.4	37.4

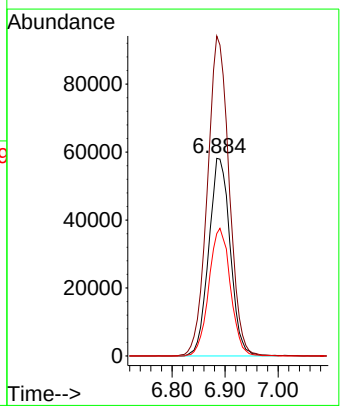


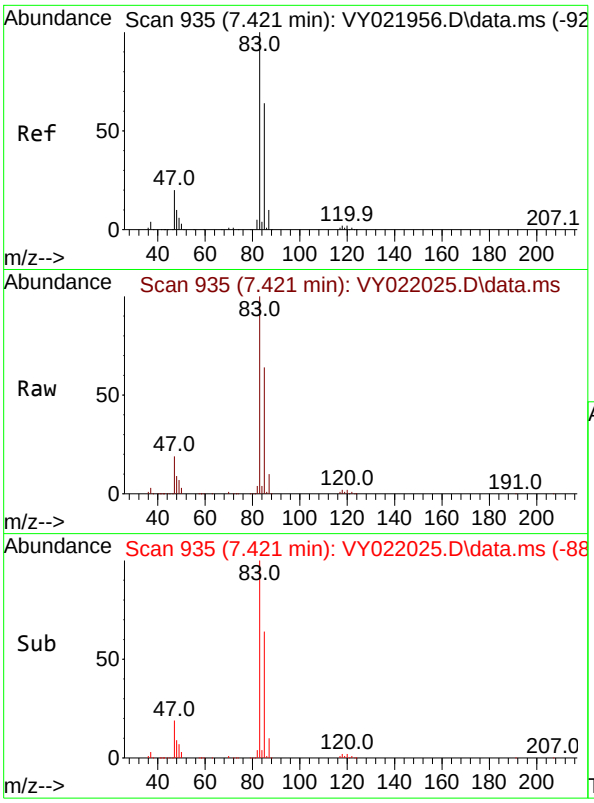


#27
cis-1,2-Dichloroethene
Concen: 43.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 96 Resp: 163278

Ion	Ratio	Lower	Upper
96	100		
61	164.2	0.0	251.4
98	65.0	0.0	128.4



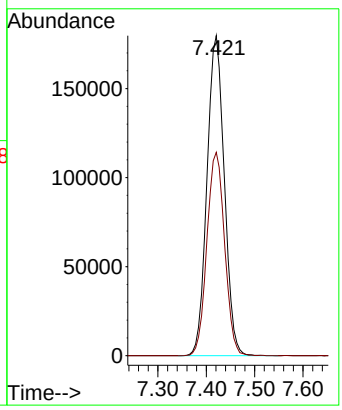


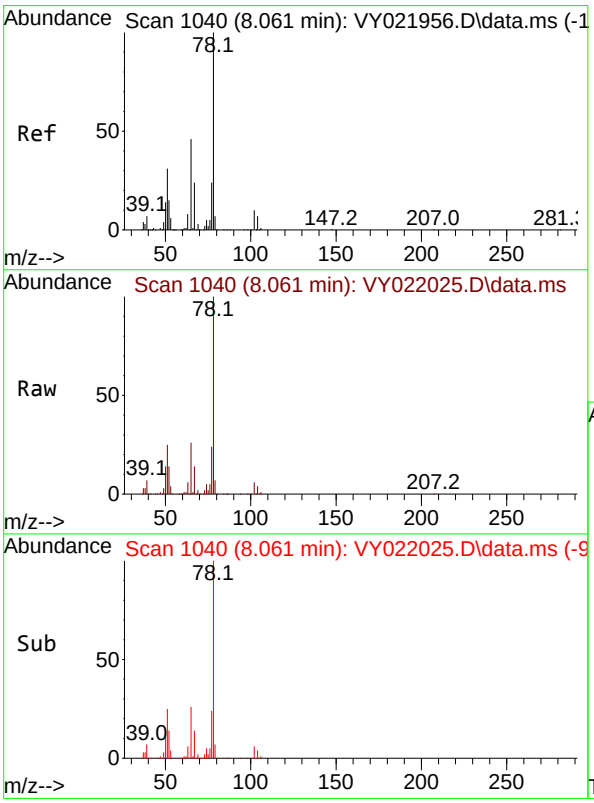
#30
Chloroform
Concen: 74.796 ug/l
RT: 7.421 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 83 Resp: 446922

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.3	76.9

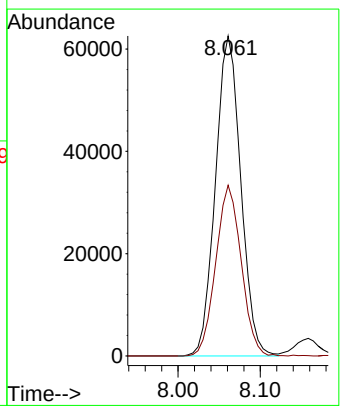


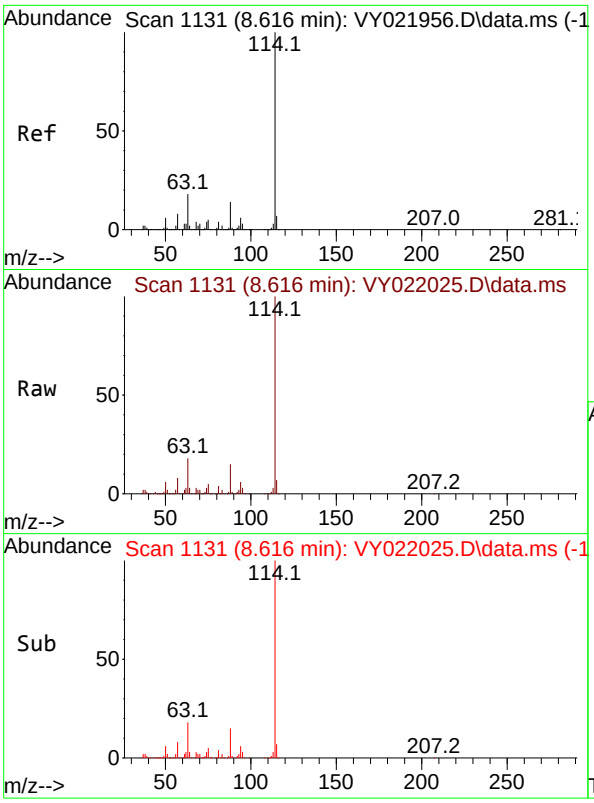


#33
1,2-Dichloroethane-d4
Concen: 48.134 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 65 Resp: 134135

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	105.8



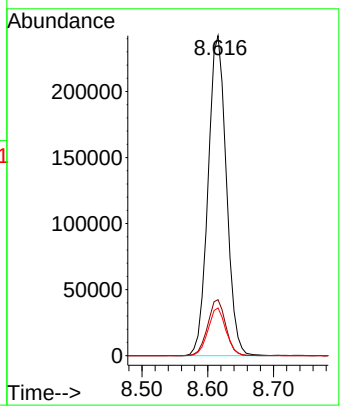


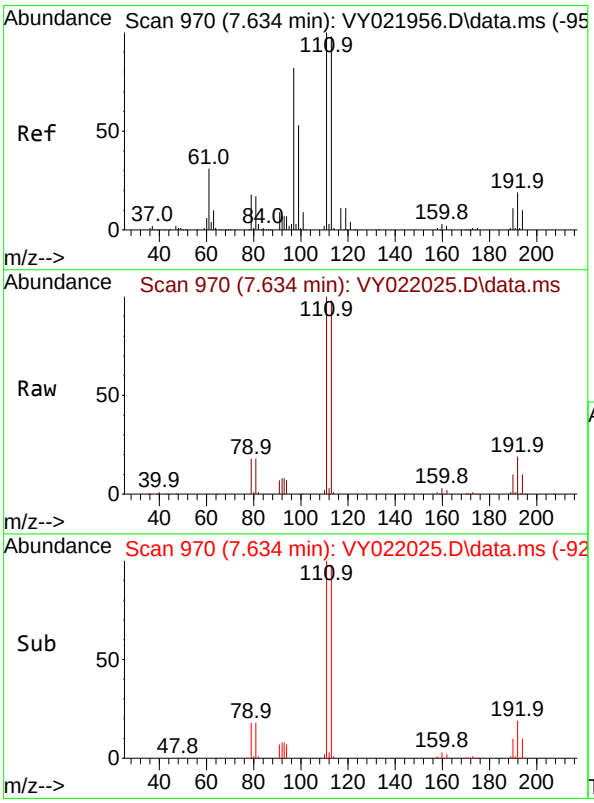
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:114 Resp: 467949

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.4
88	14.9	0.0	28.2

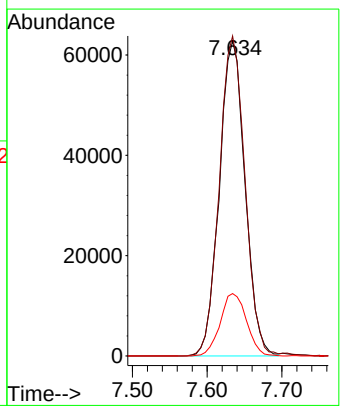


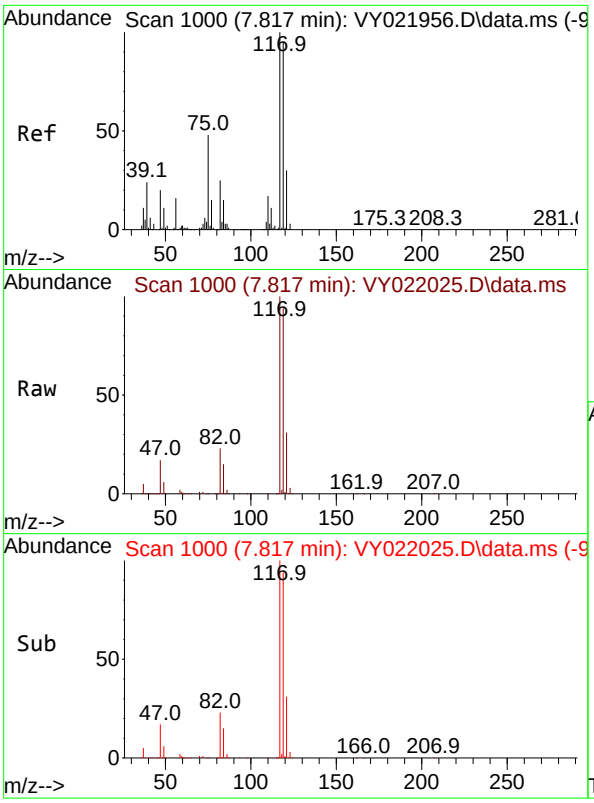


#35
Dibromofluoromethane
Concen: 48.512 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:113 Resp: 149977

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.8	122.8
192	20.3	15.6	23.4



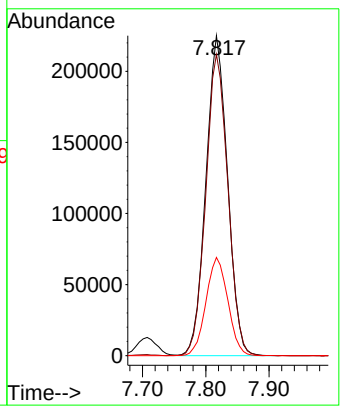


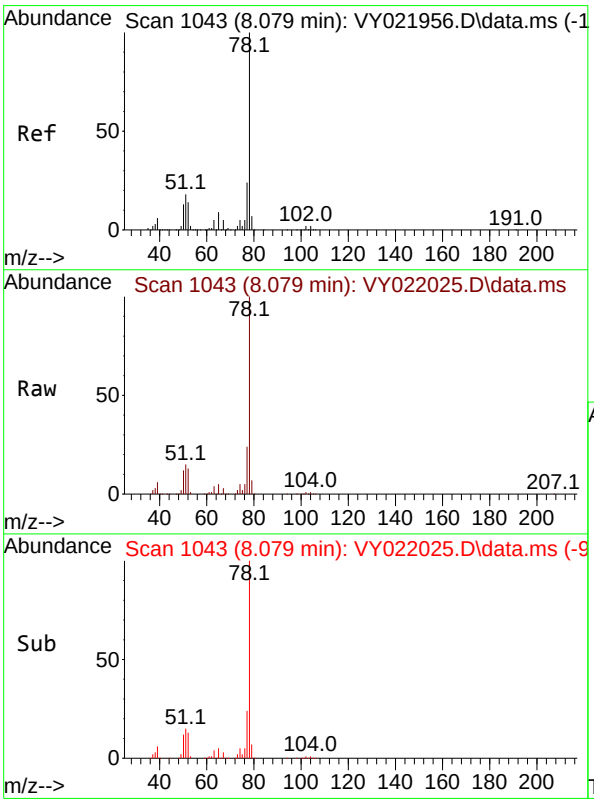
#38
Carbon Tetrachloride
Concen: 107.890 ug/l
RT: 7.817 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:117 Resp: 535378

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.2	114.4
121	30.7	24.0	36.0

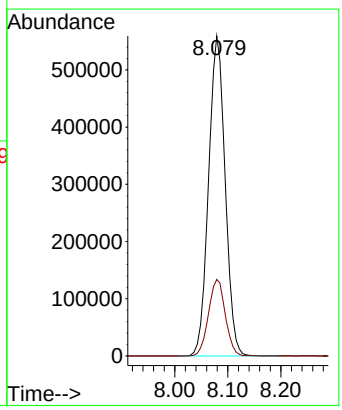


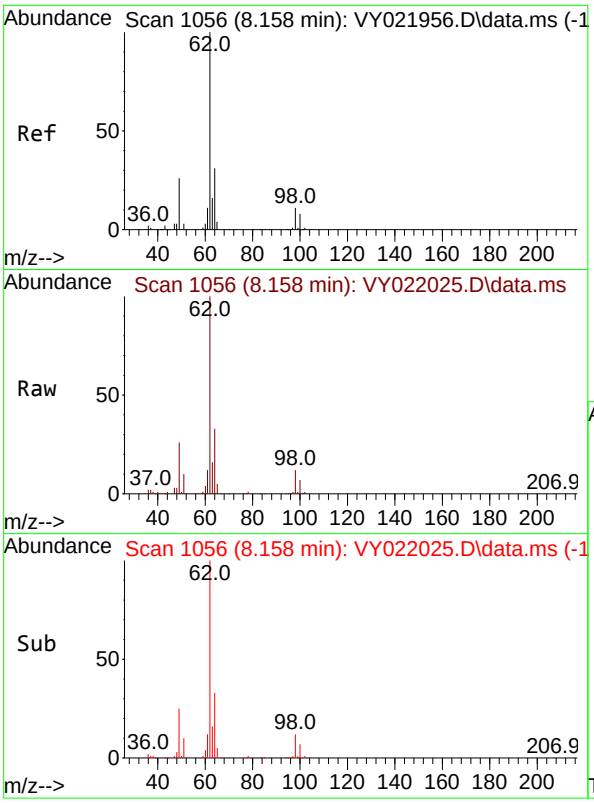


#40
Benzene
Concen: 93.528 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 78 Resp: 1214121

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9



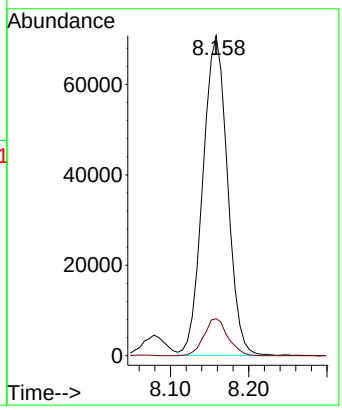


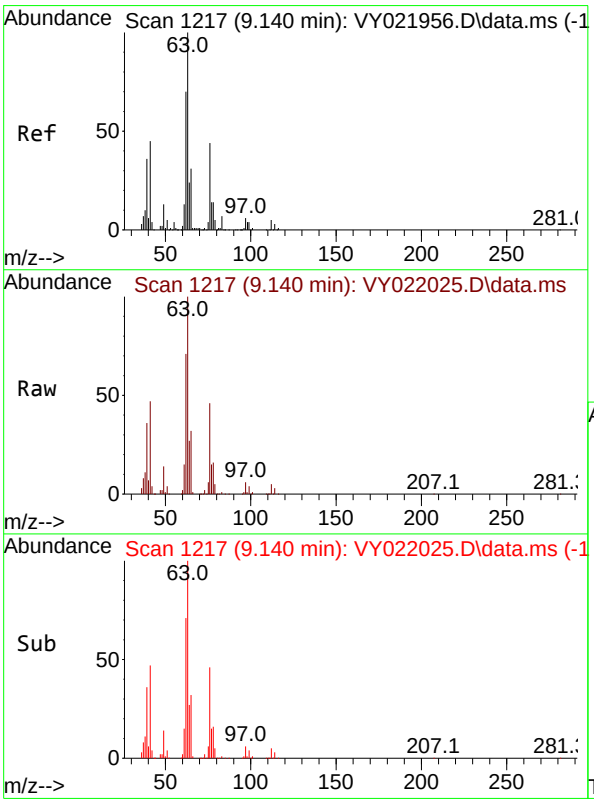
#42
1,2-Dichloroethane
Concen: 47.974 ug/l
RT: 8.158 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 62 Resp: 154187

Ion	Ratio	Lower	Upper
62	100		
98	11.3	0.0	22.0

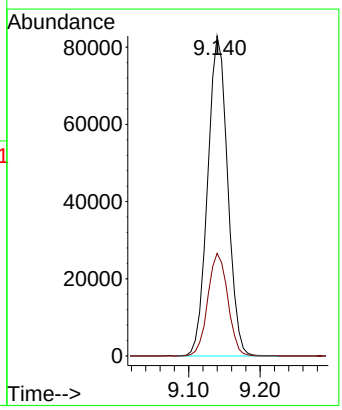


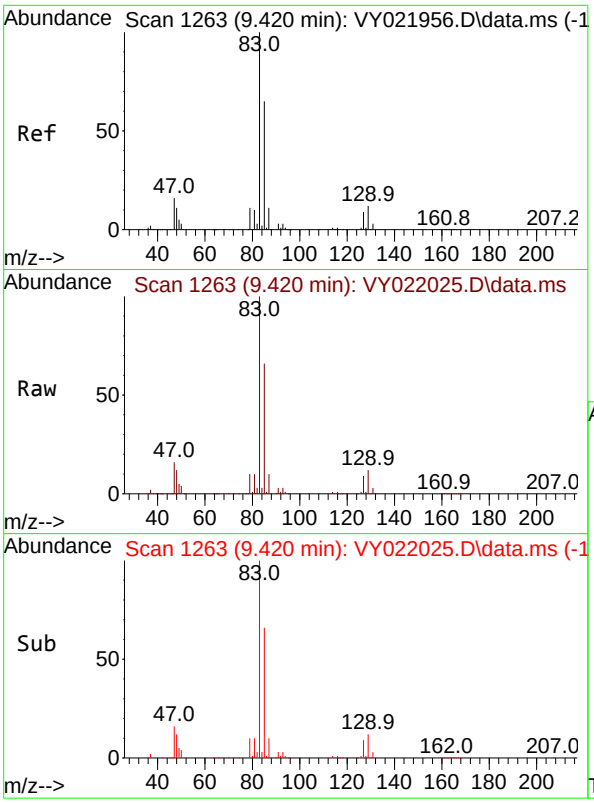


#45
1,2-Dichloropropane
Concen: 56.002 ug/l
RT: 9.140 min Scan# 1217
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 63 Resp: 160767

Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.2	37.8



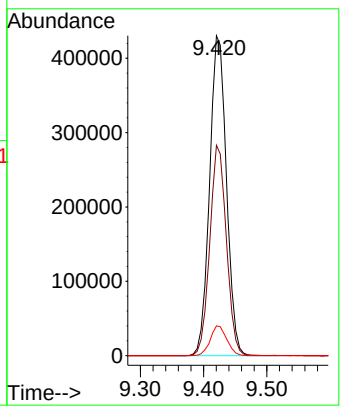


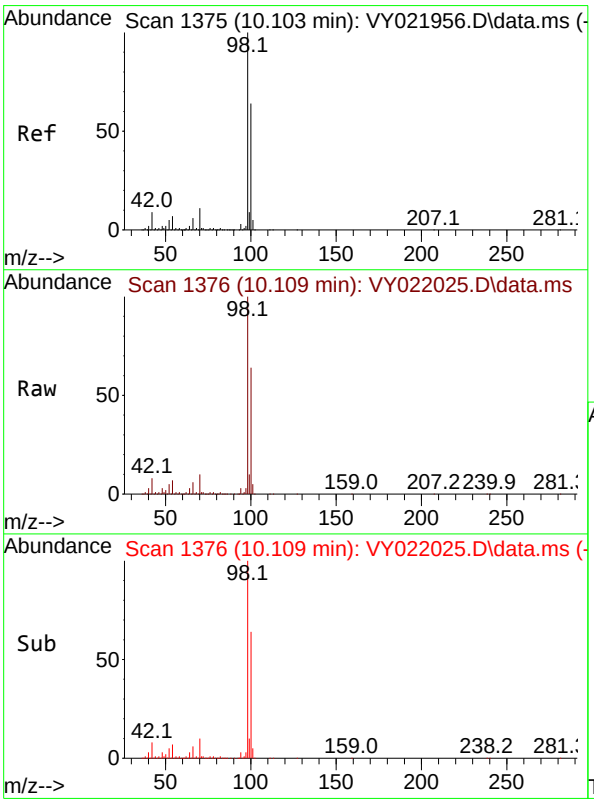
#47
Bromodichloromethane
Concen: 177.515 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 83 Resp: 796926

Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.8	77.8
127	9.3	7.0	10.6

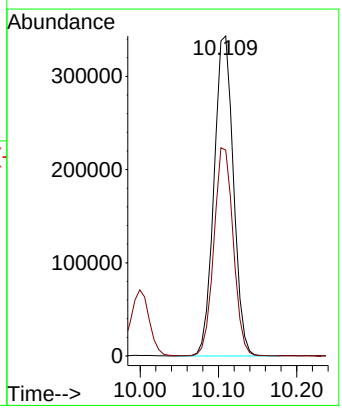


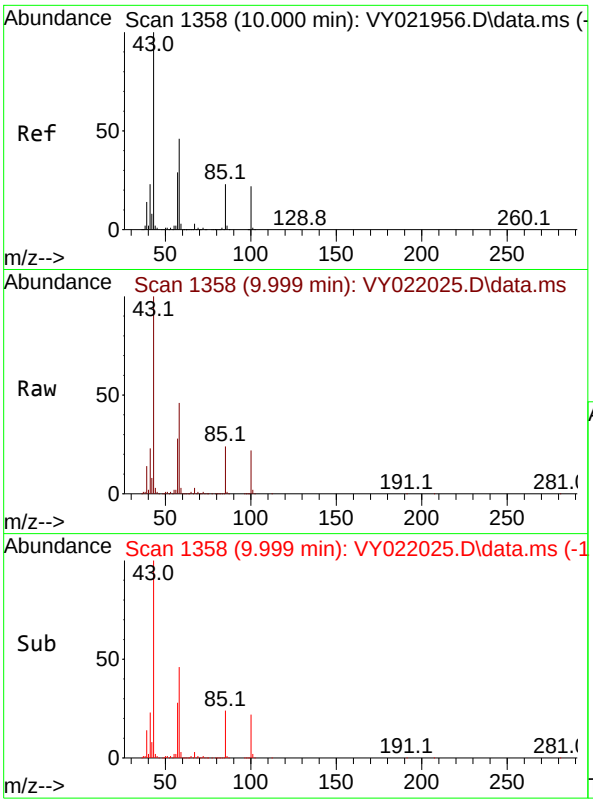


#50
Toluene-d8
Concen: 50.834 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 98 Resp: 592466

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.6	77.4



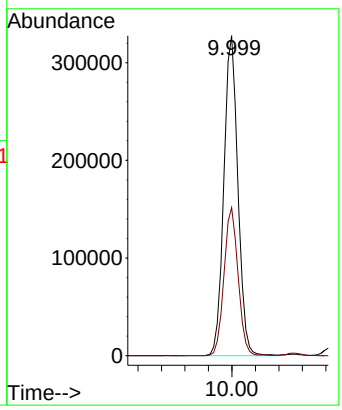


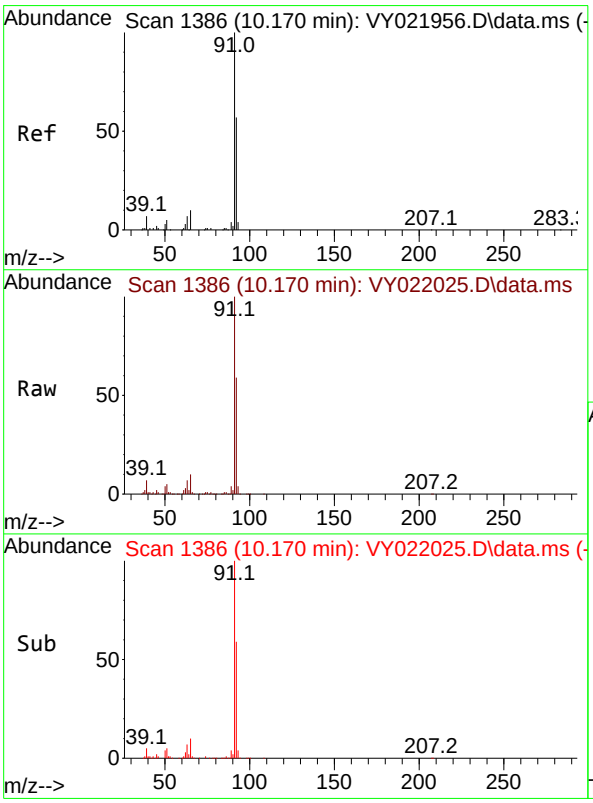
#51
4-Methyl-2-Pentanone
Concen: 362.902 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 43 Resp: 544884

Ion	Ratio	Lower	Upper
43	100		
58	46.3	36.6	55.0

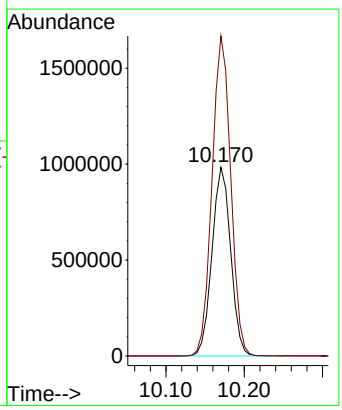


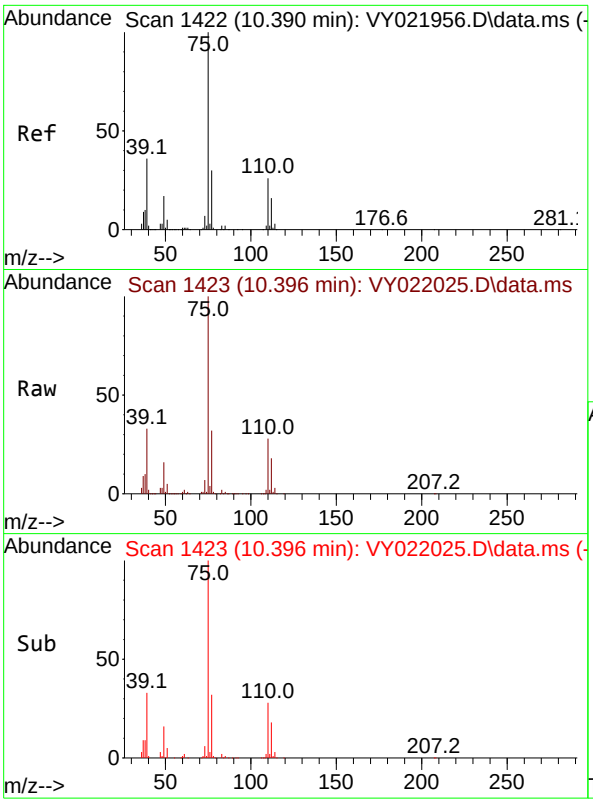


#52
Toluene
Concen: 193.996 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 92 Resp: 1630128

Ion	Ratio	Lower	Upper
92	100		
91	170.0	138.6	207.8



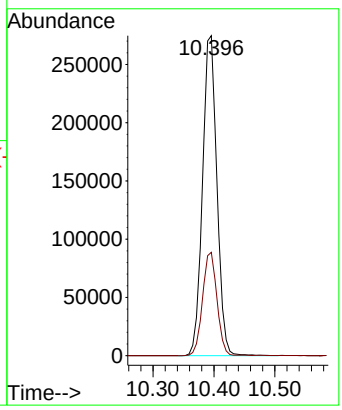


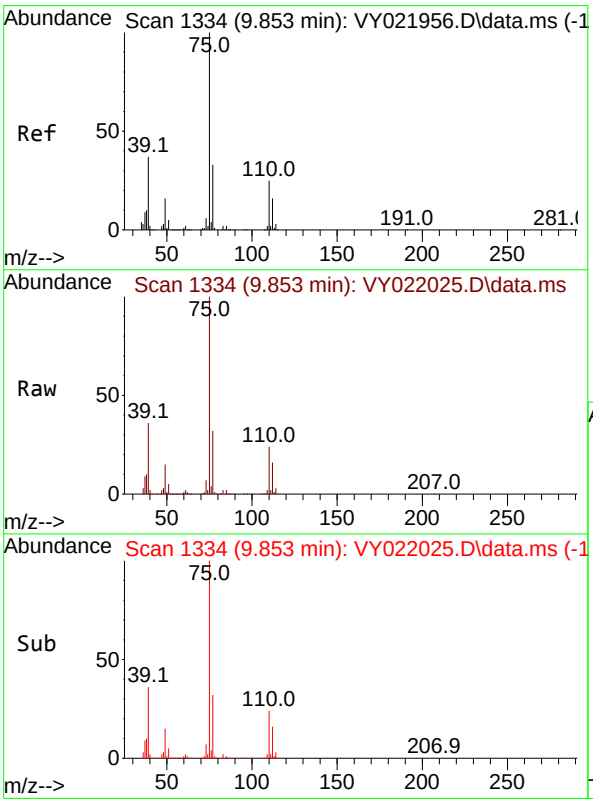
#53
t-1,3-Dichloropropene
Concen: 117.187 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 75 Resp: 451255

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.0	36.0

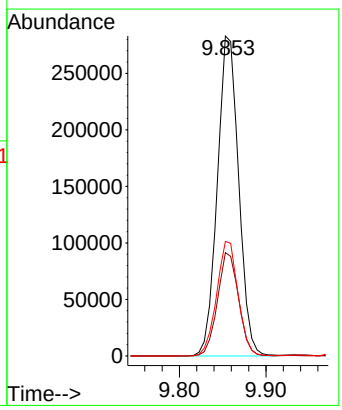


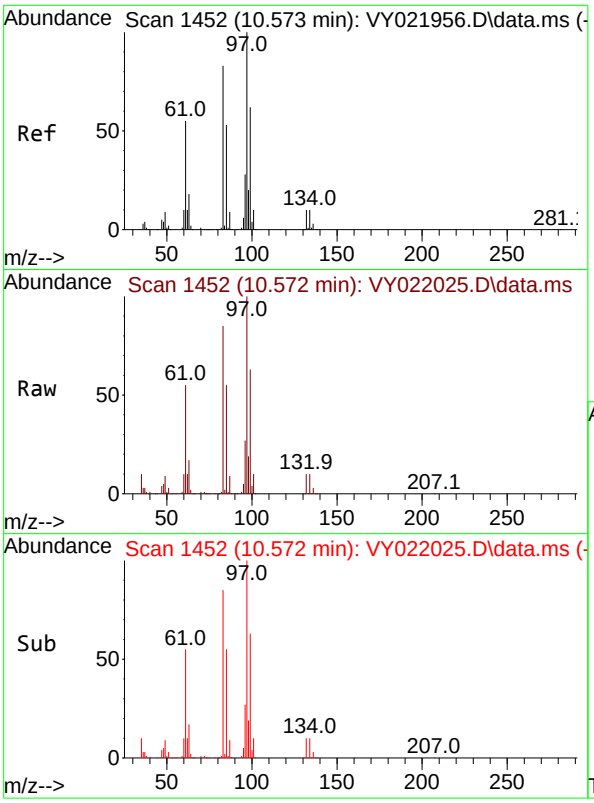


#54
cis-1,3-Dichloropropene
Concen: 105.775 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 75 Resp: 484173

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.6	40.0
39	35.8	29.6	44.4



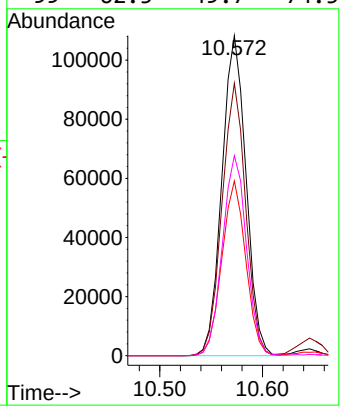


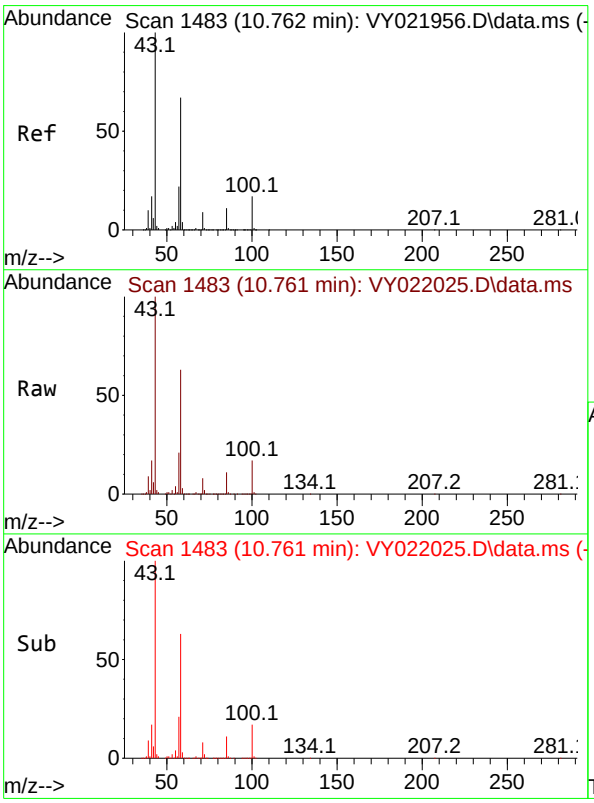
#55
1,1,2-Trichloroethane
Concen: 73.622 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 97 Resp: 176727

Ion	Ratio	Lower	Upper
97	100		
83	85.2	66.7	100.1
85	54.6	42.6	64.0
99	62.5	49.7	74.5

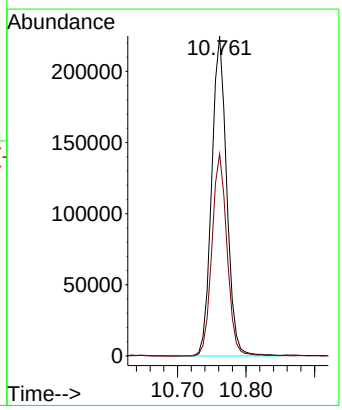


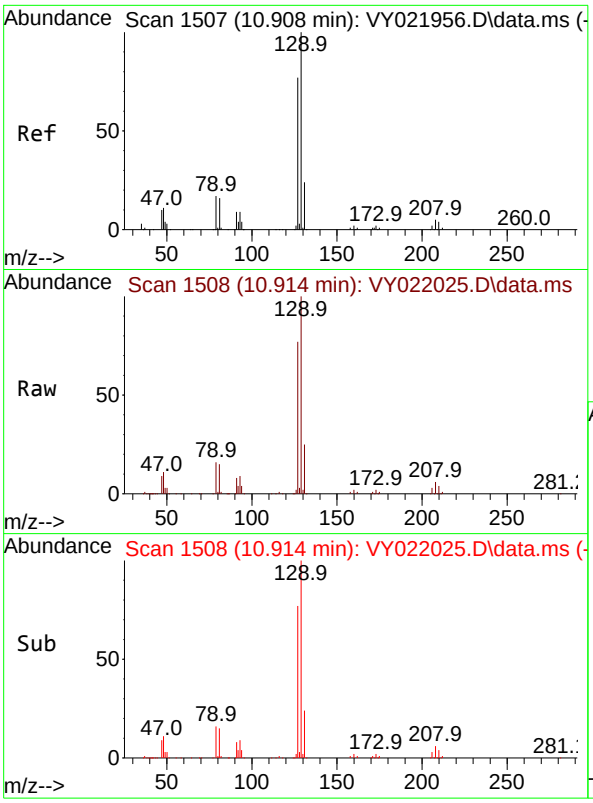


#59
2-Hexanone
Concen: 345.801 ug/l
RT: 10.761 min Scan# 1483
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 43 Resp: 342461

Ion	Ratio	Lower	Upper
43	100		
58	63.4	32.0	96.0



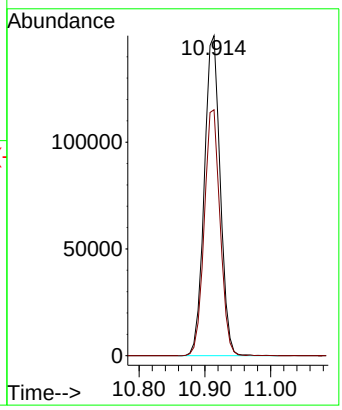


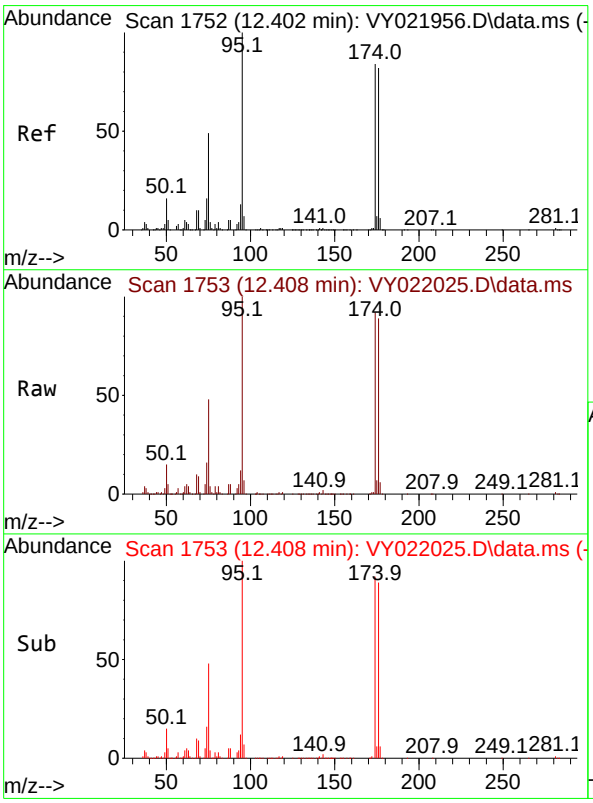
#60
Dibromochloromethane
Concen: 75.684 ug/l
RT: 10.914 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:129 Resp: 251529

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.3

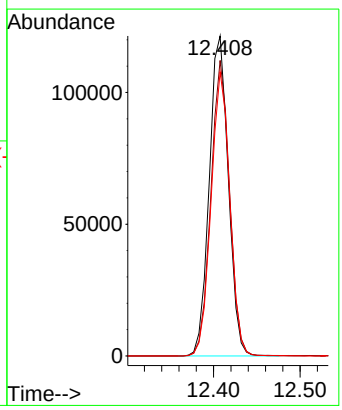


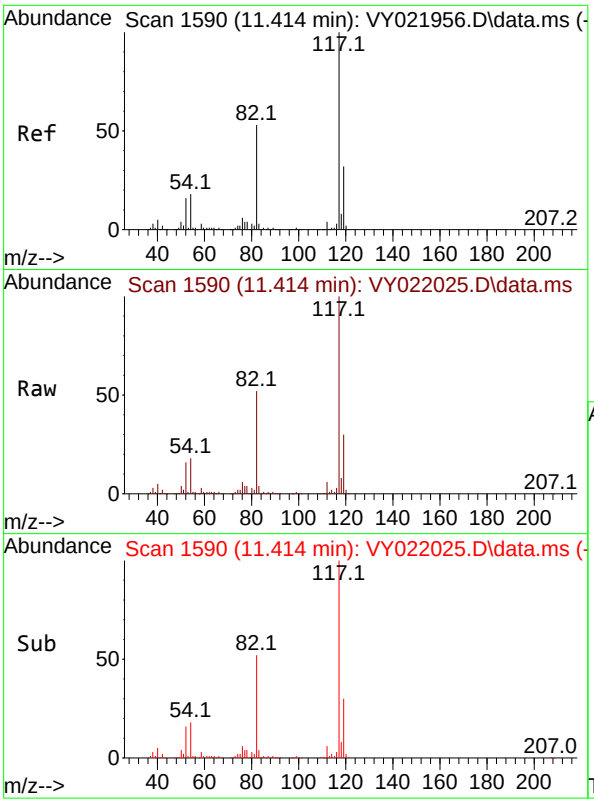


#62
4-Bromofluorobenzene
Concen: 47.388 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 95 Resp: 185929

Ion	Ratio	Lower	Upper
95	100		
174	90.7	0.0	179.0
176	87.1	0.0	171.8



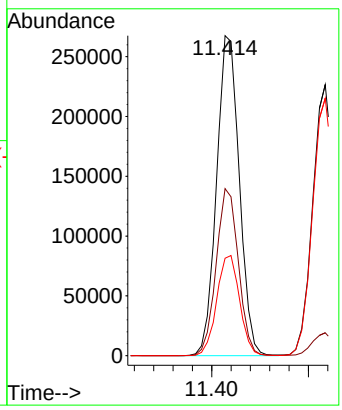


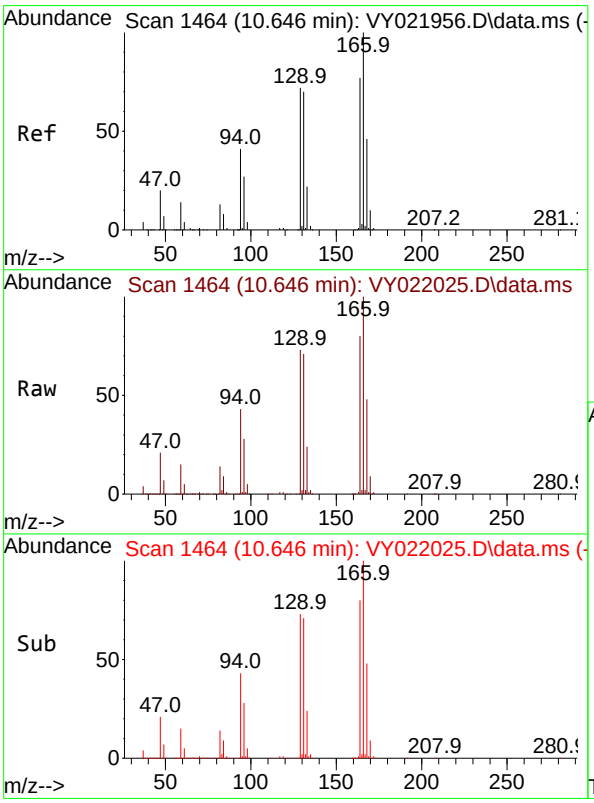
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:117 Resp: 436036

Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.1	63.1
119	30.5	25.7	38.5

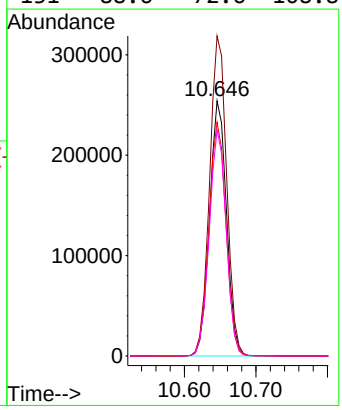


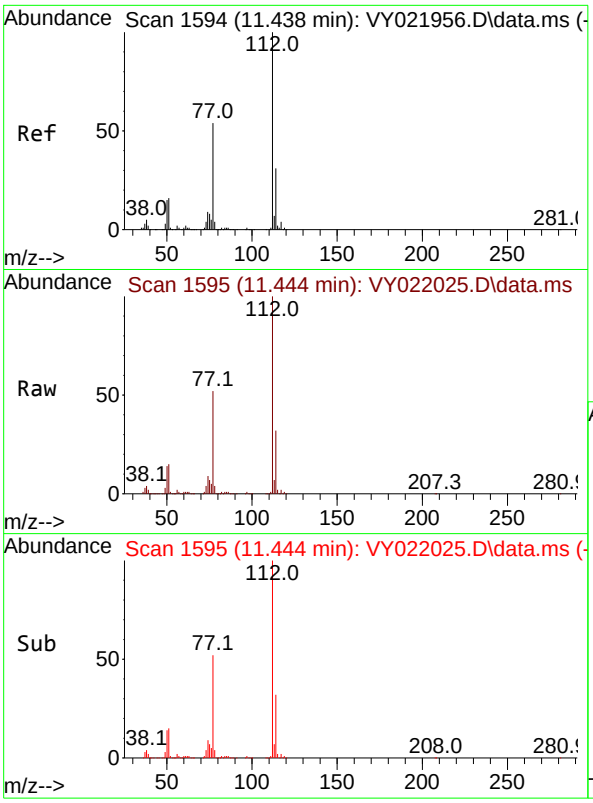


#64
Tetrachloroethene
Concen: 101.553 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:164 Resp: 417730

Ion	Ratio	Lower	Upper
164	100		
166	125.5	103.6	155.4
129	91.7	74.2	111.4
131	88.6	72.6	108.8



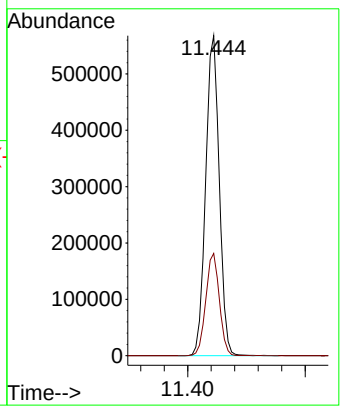


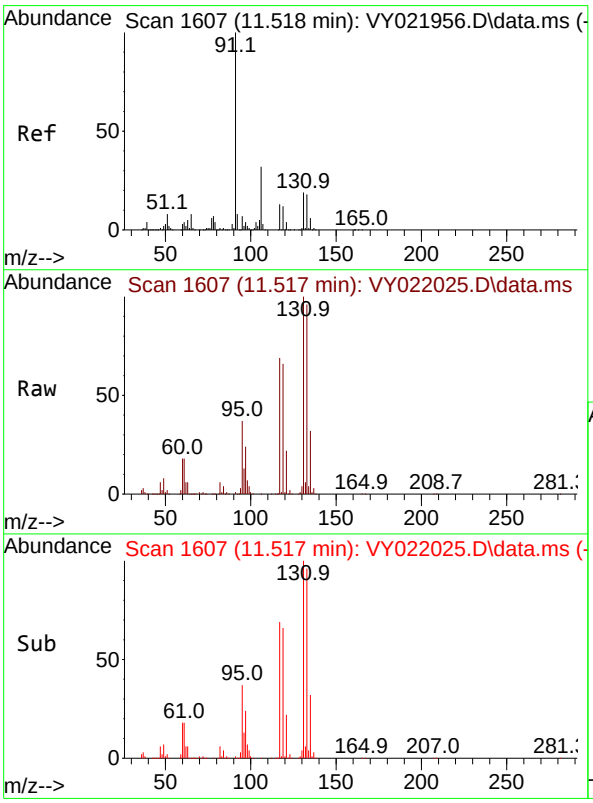
#65
Chlorobenzene
Concen: 93.318 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:112 Resp: 909935

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.4

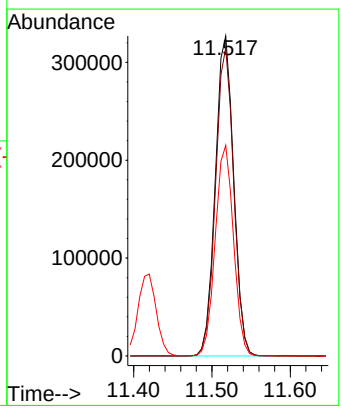


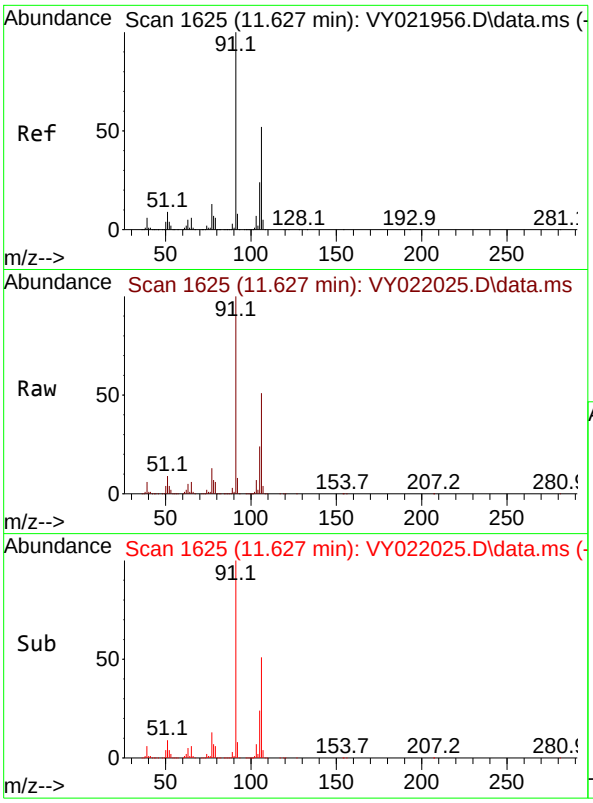


#66
1,1,1,2-Tetrachloroethane
Concen: 155.478 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:131 Resp: 533734

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.8	143.3
119	65.4	32.4	97.0



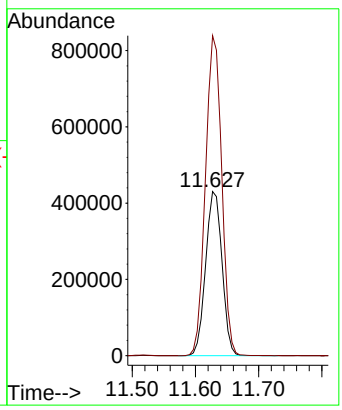


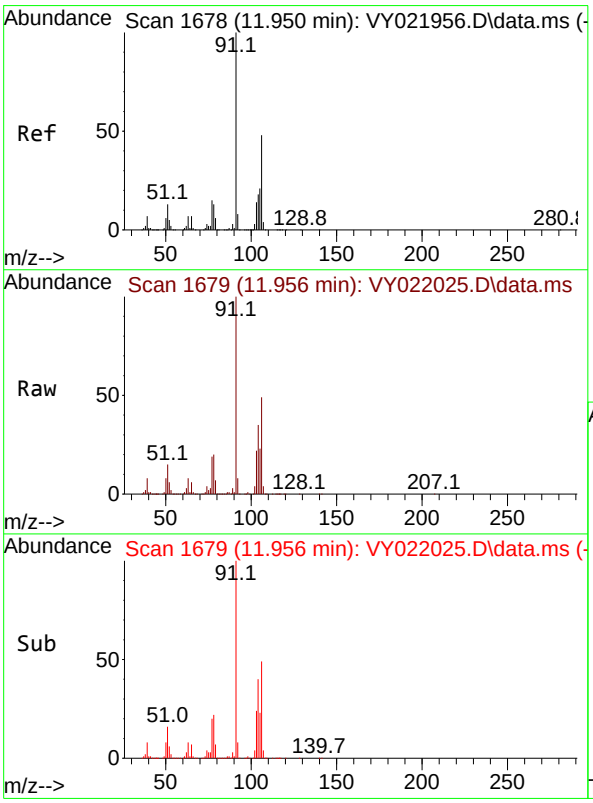
#68
m/p-Xylenes
Concen: 122.523 ug/l
RT: 11.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:106 Resp: 777678

Ion	Ratio	Lower	Upper
106	100		
91	193.6	156.2	234.2

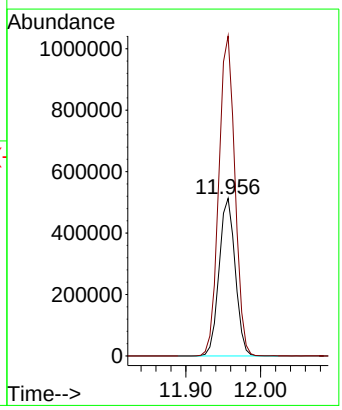


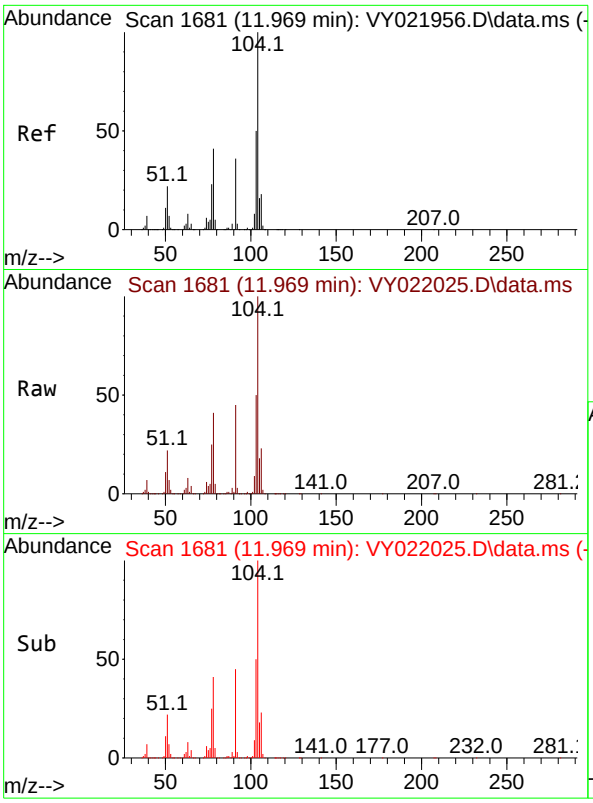


#69
o-Xylene
Concen: 131.730 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:106 Resp: 770636

Ion	Ratio	Lower	Upper
106	100		
91	203.2	103.0	308.9



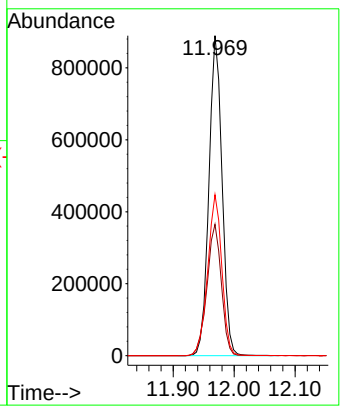


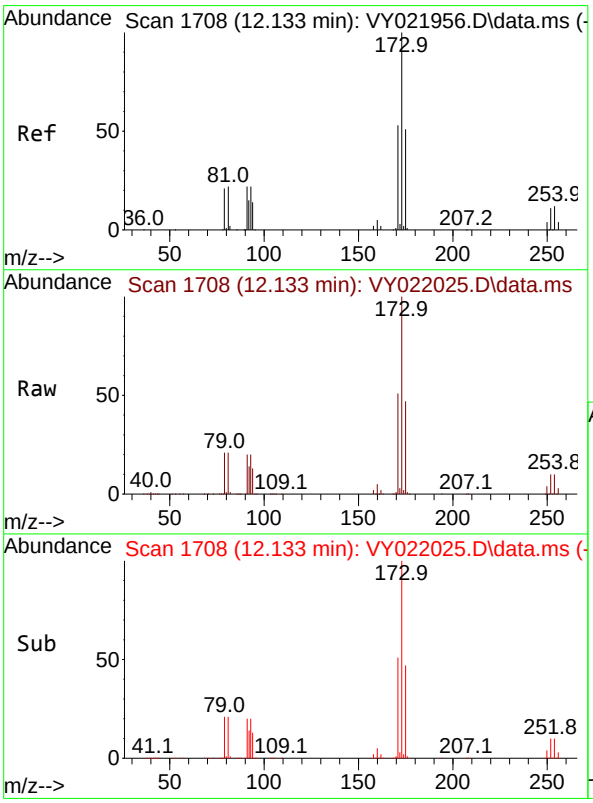
#70
Styrene
Concen: 135.916 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:104 Resp: 1335048

Ion	Ratio	Lower	Upper
104	100		
78	45.0	36.6	54.8
103	54.1	43.8	65.8

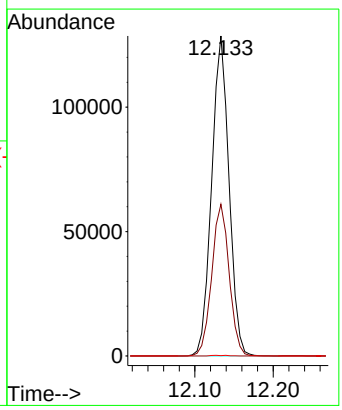


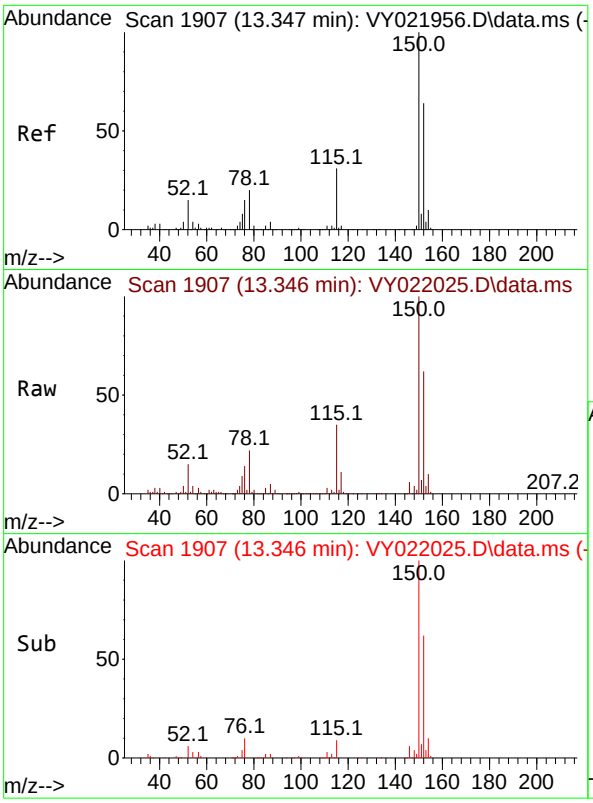


#71
Bromoform
Concen: 99.103 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:173 Resp: 197793

Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.3	72.8
254	0.2	0.0	0.0#



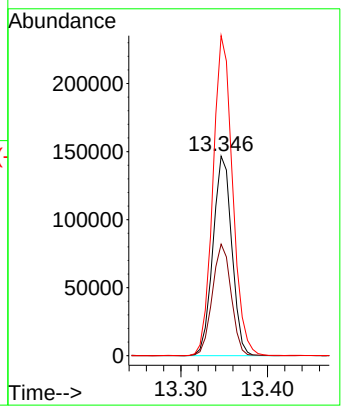


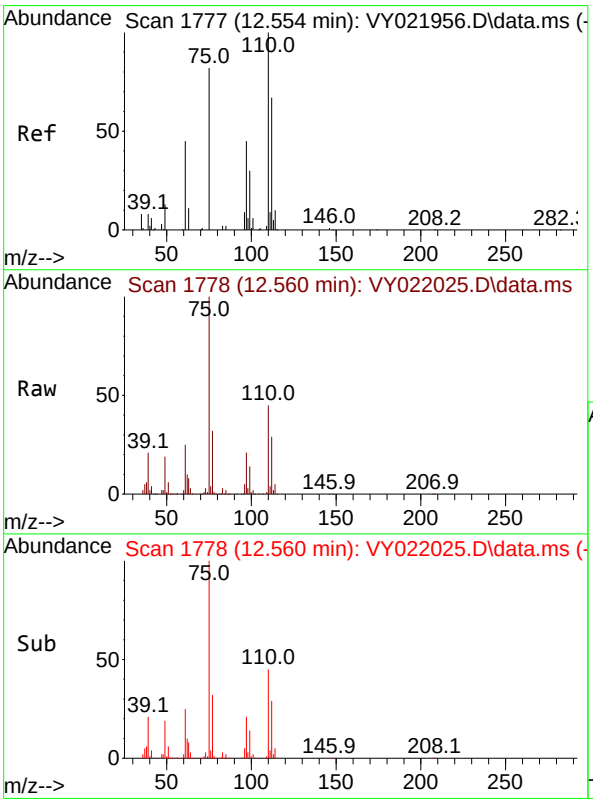
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:152 Resp: 221687

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.0	84.0
150	167.1	0.0	345.6

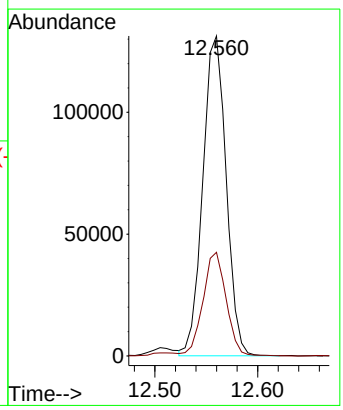


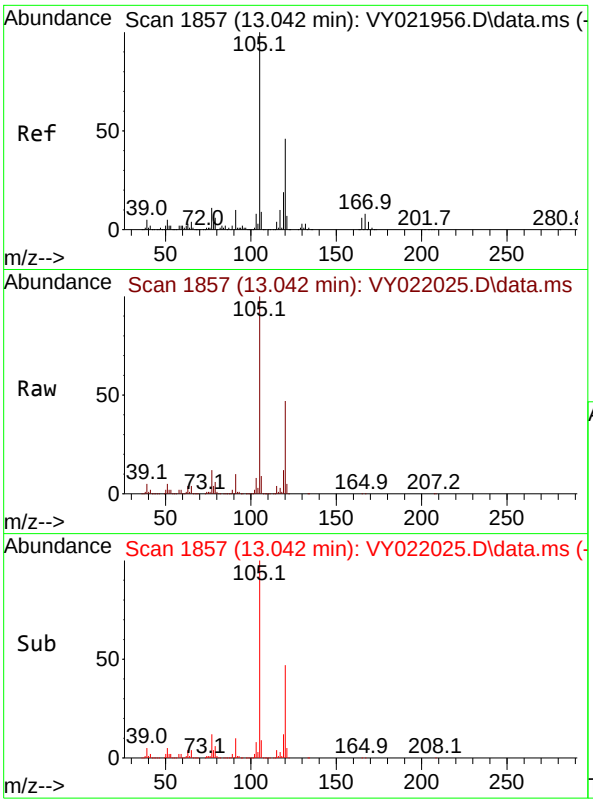


#76
1,2,3-Trichloropropane
Concen: 109.430 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion: 75 Resp: 207793

Ion	Ratio	Lower	Upper
75	100		
77	32.2	0.0	0.0#



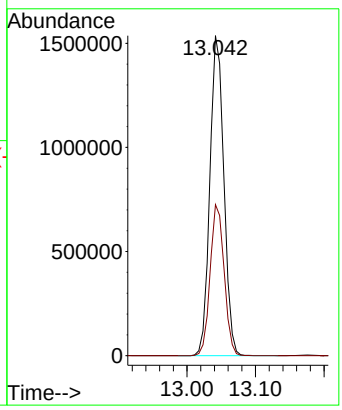


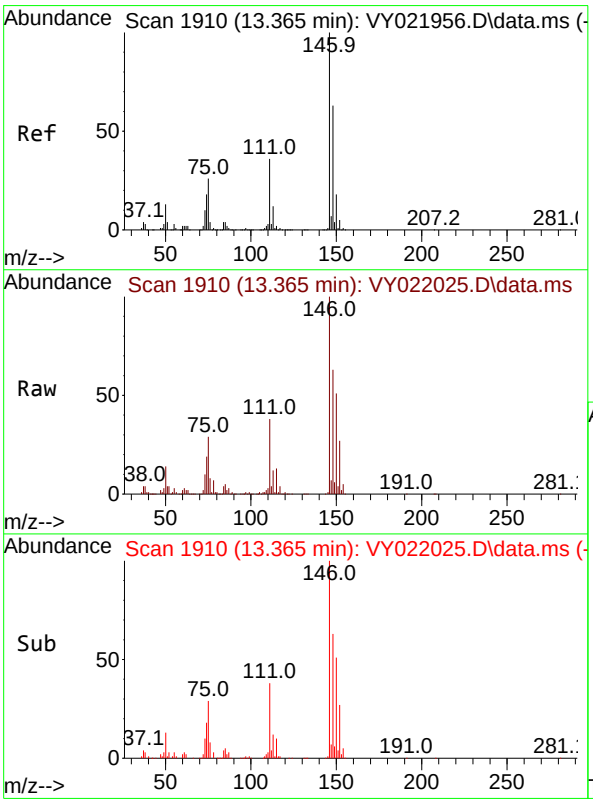
#84
1,2,4-Trimethylbenzene
Concen: 178.923 ug/l
RT: 13.042 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:105 Resp: 2183983

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.4	70.0

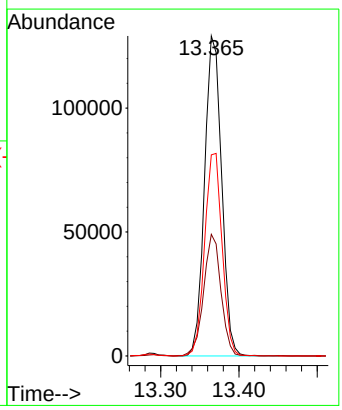


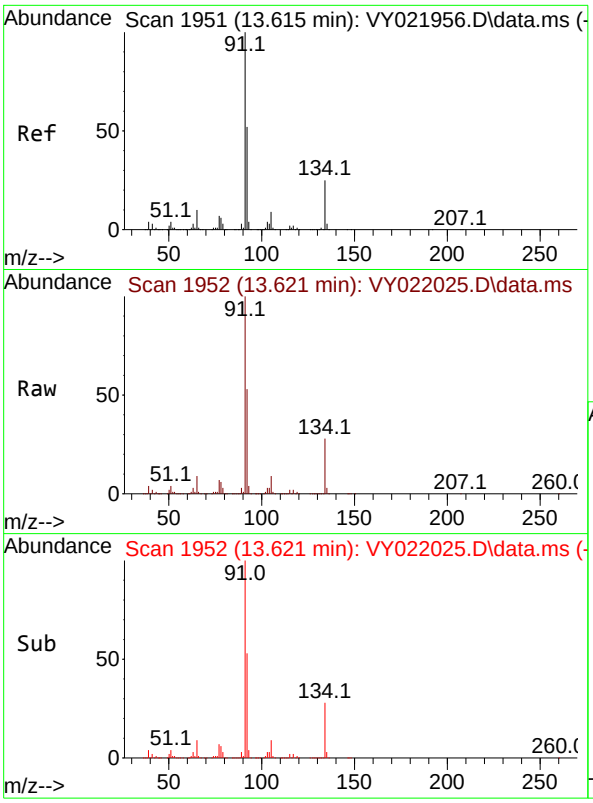


#88
1,4-Dichlorobenzene
Concen: 25.920 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:146 Resp: 195134

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.2	57.6
148	64.8	32.0	96.0



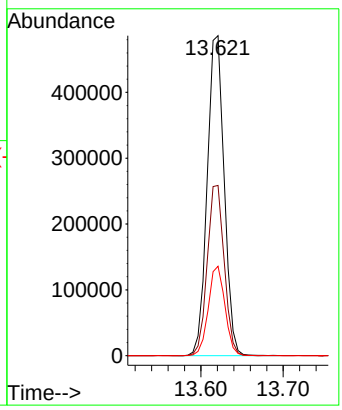


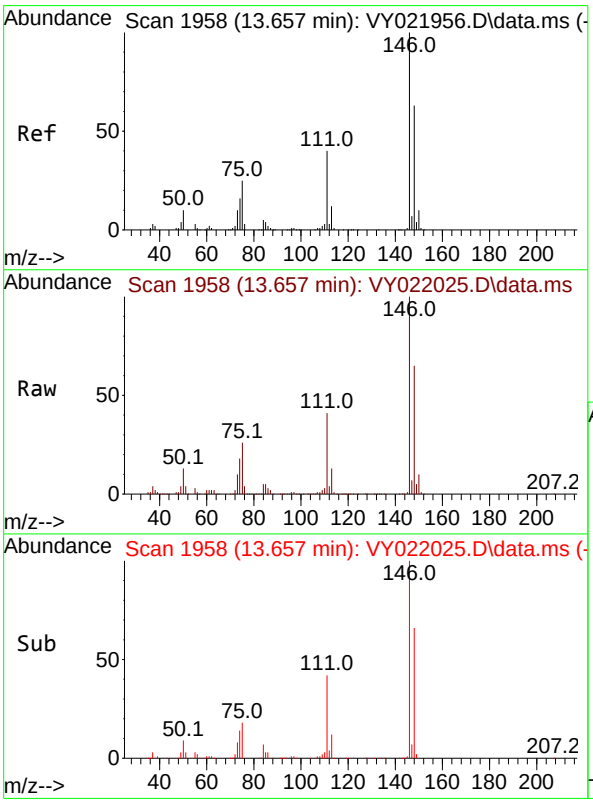
#89
n-Butylbenzene
Concen: 57.277 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion: 91 Resp: 696238

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.5	79.5
134	27.4	13.4	40.1

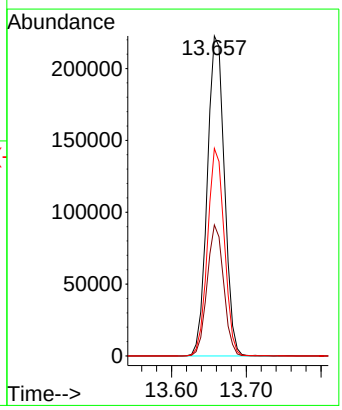


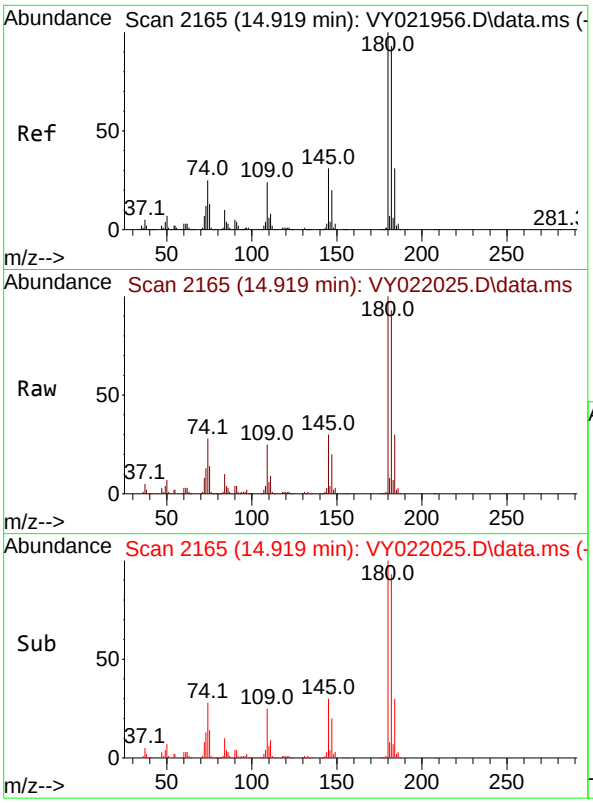


#91
1,2-Dichlorobenzene
Concen: 53.433 ug/l
RT: 13.657 min Scan# 1958
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Tgt Ion:146 Resp: 354246

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.7	59.1
148	63.5	32.1	96.3



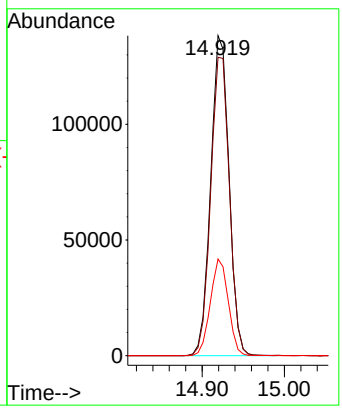


#93
1,2,4-Trichlorobenzene
Concen: 56.911 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022025.D
Acq: 28 Apr 2025 12:41

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOIL

Tgt Ion:180 Resp: 213810

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.1	141.4
145	29.6	15.0	45.0



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23DL	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022051.D	4		04/29/25 12:22	vy042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.60	UD	4.60	20.0	ug/Kg
74-87-3	Chloromethane	4.60	UD	4.60	20.0	ug/Kg
75-01-4	Vinyl Chloride	3.20	UD	3.20	20.0	ug/Kg
141-78-6	Ethyl Acetate	5.20	UD	5.20	20.0	ug/Kg
108-21-4	Isopropyl Acetate	3.60	UD	3.60	20.0	ug/Kg
74-83-9	Bromomethane	4.30	UD	4.30	20.0	ug/Kg
75-00-3	Chloroethane	5.00	UD	5.00	20.0	ug/Kg
109-99-9	Tetrahydrofuran	18.7	UD	18.7	100	ug/Kg
75-69-4	Trichlorofluoromethane	4.80	UD	4.80	20.0	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	UD	4.20	20.0	ug/Kg
75-65-0	Tert butyl alcohol	54.8	UD	54.8	100	ug/Kg
60-29-7	Diethyl Ether	3.10	UD	3.10	20.0	ug/Kg
75-35-4	1,1-Dichloroethene	150	D	4.00	20.0	ug/Kg
107-02-8	Acrolein	35.2	UD	35.2	100	ug/Kg
107-13-1	Acrylonitrile	19.9	UD	19.9	100	ug/Kg
67-64-1	Acetone	370	D	19.0	100	ug/Kg
75-15-0	Carbon Disulfide	4.20	UD	4.20	20.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	160	D	2.90	20.0	ug/Kg
79-20-9	Methyl Acetate	6.20	UD	6.20	20.0	ug/Kg
75-09-2	Methylene Chloride	14.1	UD	14.1	40.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.40	UD	3.40	20.0	ug/Kg
108-05-4	Vinyl Acetate	19.4	UD	19.4	100	ug/Kg
75-34-3	1,1-Dichloroethane	3.20	UD	3.20	20.0	ug/Kg
110-82-7	Cyclohexane	3.20	UD	3.20	20.0	ug/Kg
78-93-3	2-Butanone	320	D	26.2	100	ug/Kg
56-23-5	Carbon Tetrachloride	110	D	3.90	20.0	ug/Kg
594-20-7	2,2-Dichloropropane	160	D	5.10	20.0	ug/Kg
156-59-2	cis-1,2-Dichloroethene	43.3	D	3.00	20.0	ug/Kg
74-97-5	Bromochloromethane	4.60	UD	4.60	20.0	ug/Kg
67-66-3	Chloroform	79.6	D	3.40	20.0	ug/Kg

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23DL	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022051.D	4		04/29/25 12:22	vy042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
71-55-6	1,1,1-Trichloroethane	3.70	UD	3.70	20.0	ug/Kg
108-87-2	Methylcyclohexane	3.60	UD	3.60	20.0	ug/Kg
563-58-6	1,1-Dichloropropene	3.50	UD	3.50	20.0	ug/Kg
71-43-2	Benzene	92.0	D	3.20	20.0	ug/Kg
107-06-2	1,2-Dichloroethane	49.4	D	3.20	20.0	ug/Kg
79-01-6	Trichloroethene	3.20	UD	3.20	20.0	ug/Kg
78-87-5	1,2-Dichloropropane	57.3	D	3.60	20.0	ug/Kg
74-95-3	Dibromomethane	3.60	UD	3.60	20.0	ug/Kg
75-27-4	Bromodichloromethane	180	D	3.10	20.0	ug/Kg
108-10-1	4-Methyl-2-Pentanone	300	D	14.3	100	ug/Kg
80-62-6	Methyl methacrylate	3.00	UD	3.00	20.0	ug/Kg
108-88-3	Toluene	180	D	3.10	20.0	ug/Kg
10061-02-6	t-1,3-Dichloropropene	110	D	2.60	20.0	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	95.1	D	2.50	20.0	ug/Kg
79-00-5	1,1,2-Trichloroethane	72.4	D	3.70	20.0	ug/Kg
142-28-9	1,3-Dichloropropane	2.70	UD	2.70	20.0	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	15.0	UD	15.0	100	ug/Kg
591-78-6	2-Hexanone	290	D	14.8	100	ug/Kg
124-48-1	Dibromochloromethane	73.1	D	3.50	20.0	ug/Kg
106-93-4	1,2-Dibromoethane	3.50	UD	3.50	20.0	ug/Kg
127-18-4	Tetrachloroethene	100	D	4.20	20.0	ug/Kg
108-90-7	Chlorobenzene	93.7	D	3.60	20.0	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	160	D	3.10	20.0	ug/Kg
67-72-1	Hexachloroethane	4.20	UD	4.20	20.0	ug/Kg
100-41-4	Ethyl Benzene	2.70	UD	2.70	20.0	ug/Kg
179601-23-1	m/p-Xylenes	110	D	5.00	40.0	ug/Kg
1330-20-7	Total Xylenes	230	D	8.30	60.0	ug/Kg
95-47-6	o-Xylene	120	D	3.30	20.0	ug/Kg
100-42-5	Styrene	120	D	2.80	20.0	ug/Kg
75-25-2	Bromoform	96.0	D	3.40	20.0	ug/Kg
98-82-8	Isopropylbenzene	3.10	UD	3.10	20.0	ug/Kg

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23DL	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022051.D	4		04/29/25 12:22	vy042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	4.80	UD	4.80	20.0	ug/Kg
96-18-4	1,2,3-Trichloropropane	110	D	5.00	20.0	ug/Kg
108-86-1	Bromobenzene	4.80	UD	4.80	20.0	ug/Kg
103-65-1	n-propylbenzene	2.90	UD	2.90	20.0	ug/Kg
95-49-8	2-Chlorotoluene	2.70	UD	2.70	20.0	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	3.30	UD	3.30	20.0	ug/Kg
106-43-4	4-Chlorotoluene	4.90	UD	4.90	20.0	ug/Kg
98-06-6	tert-Butylbenzene	2.70	UD	2.70	20.0	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	150	D	2.60	20.0	ug/Kg
135-98-8	sec-Butylbenzene	2.60	UD	2.60	20.0	ug/Kg
99-87-6	p-Isopropyltoluene	2.50	UD	2.50	20.0	ug/Kg
541-73-1	1,3-Dichlorobenzene	6.80	UD	6.80	20.0	ug/Kg
106-46-7	1,4-Dichlorobenzene	26.0	D	6.20	20.0	ug/Kg
104-51-8	n-Butylbenzene	48.4	D	5.80	20.0	ug/Kg
95-50-1	1,2-Dichlorobenzene	51.6	D	5.80	20.0	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.40	UD	7.40	20.0	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	48.3	D	11.9	20.0	ug/Kg
87-68-3	Hexachlorobutadiene	7.60	UD	7.60	20.0	ug/Kg
91-20-3	Naphthalene	10.3	UD	10.3	20.0	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	12.7	UD	12.7	20.0	ug/Kg
628-63-7	N-amyl acetate	3.90	UDQ	3.90	20.0	ug/Kg
74-88-4	Methyl Iodide	3.60	UD	3.60	20.0	ug/Kg
107-05-1	Allyl chloride	3.10	UD	3.10	20.0	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	4.20	UD	4.20	20.0	ug/Kg
126-98-7	Methacrylonitrile	7.00	UD	7.00	20.0	ug/Kg
108-20-3	Diisopropyl ether	100	D	2.20	20.0	ug/Kg
123-91-1	1,4-Dioxane	190	UD	190	400	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	51.3		74 - 123	103%	SPK: 50

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-VOA-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-23DL	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022051.D	4		04/29/25 12:22	vy042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	47.2		38 - 136	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	275000	7.707			
540-36-3	1,4-Difluorobenzene	445000	8.615			
3114-55-4	Chlorobenzene-d5	399000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	203000	13.346			

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\VY042925\
Data File : VY022051.D
Acq On : 29 Apr 2025 12:22
Operator : SY/MD
Sample : Q1872-23DL 4X
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Quant Time: Apr 30 01:33:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	274790	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	444877	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	398616	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	202989	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	128893	50.782	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.560%			
35) Dibromofluoromethane	7.634	113	146131	49.720	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.440%			
50) Toluene-d8	10.109	98	567972	51.259	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.520%			
62) 4-Bromofluorobenzene	12.407	95	176167	47.228	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.460%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	3.787	96	99300	36.351	ug/l	95
16) Acetone	3.878	43	34838	91.302	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	249204	40.759	ug/l	97
22) Diisopropyl ether	6.024	45	183849	25.973	ug/l	98
25) 2-Butanone	6.896	43	46765	80.829	ug/l	91
26) 2,2-Dichloropropane	6.884	77	166890	38.808	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	37071	10.837	ug/l	77
30) Chloroform	7.420	83	108280	19.896	ug/l	96
38) Carbon Tetrachloride	7.817	117	127978	27.128	ug/l	97
40) Benzene	8.079	78	283874	23.002	ug/l	99
42) 1,2-Dichloroethane	8.152	62	37736	12.350	ug/l	99
45) 1,2-Dichloropropane	9.140	63	39066	14.314	ug/l	100
47) Bromodichloromethane	9.420	83	187884	44.022	ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	107247	75.133	ug/l	98
52) Toluene	10.170	92	368349	46.109	ug/l	100
53) t-1,3-Dichloropropene	10.395	75	101756	27.796	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	103440	23.770	ug/l	98
55) 1,1,2-Trichloroethane	10.572	97	41313	18.103	ug/l	98
59) 2-Hexanone	10.761	43	68399	72.648	ug/l	95
60) Dibromochloromethane	10.908	129	57740	18.275	ug/l	100
64) Tetrachloroethene	10.645	164	96153	25.570	ug/l	99
65) Chlorobenzene	11.444	112	208808	23.425	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	124374	39.632	ug/l	99
68) m/p-Xylenes	11.627	106	161265	27.792	ug/l	99
69) o-Xylene	11.956	106	162292	30.346	ug/l	98
70) Styrene	11.968	104	279394	31.114	ug/l	99
71) Bromoform	12.133	173	43782	23.996	ug/l #	99
76) 1,2,3-Trichloropropane	12.560	75	48730	28.027	ug/l #	100
84) 1,2,4-Trimethylbenzene	13.041	105	422779	37.827	ug/l	99
88) 1,4-Dichlorobenzene	13.364	146	44739	6.490	ug/l	97
89) n-Butylbenzene	13.620	91	134799	12.111	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	78278	12.895	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	41502	12.064	ug/l	99

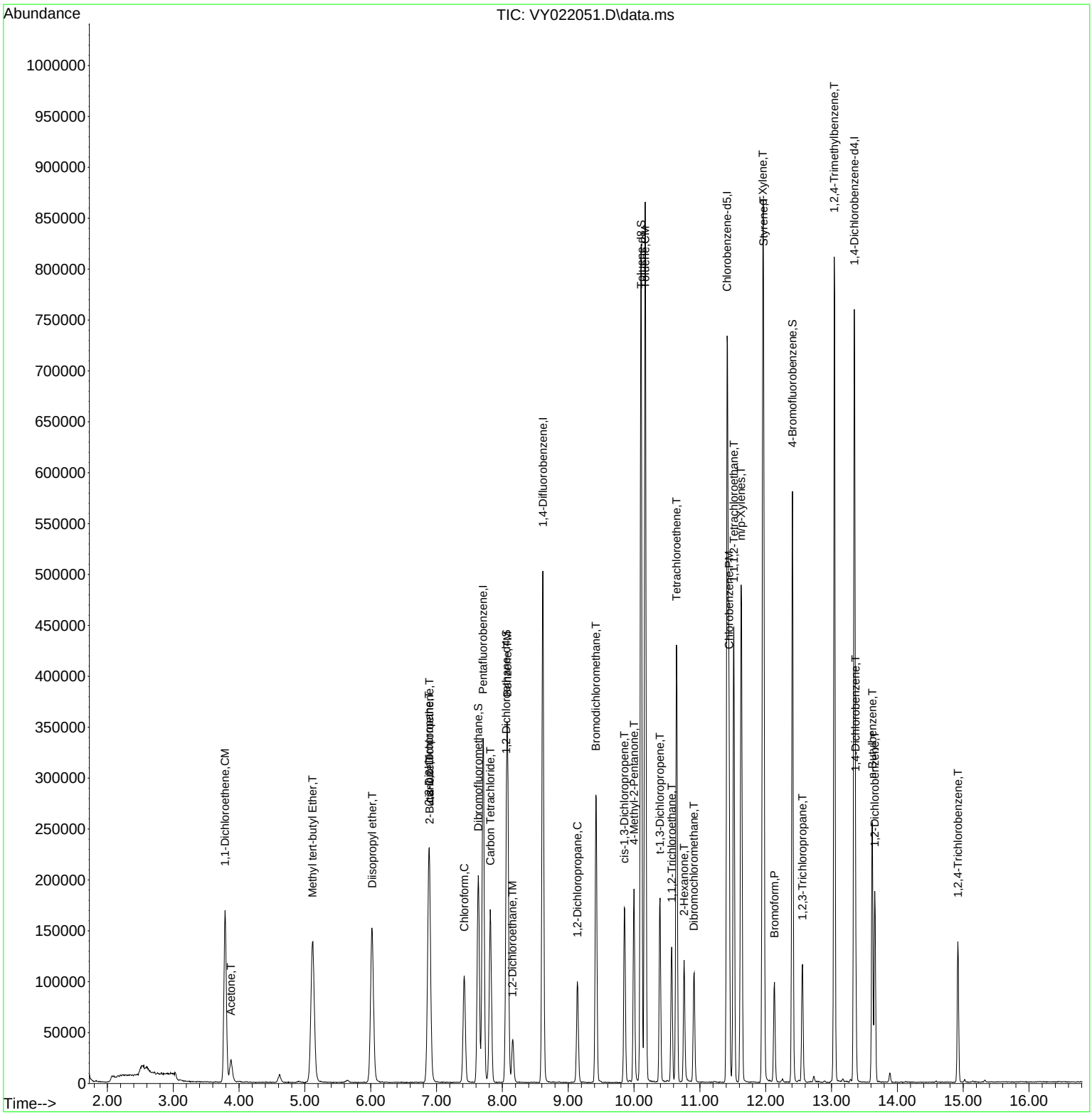
(#) = qualifier out of range (m) = manual integration (+) = signals summed

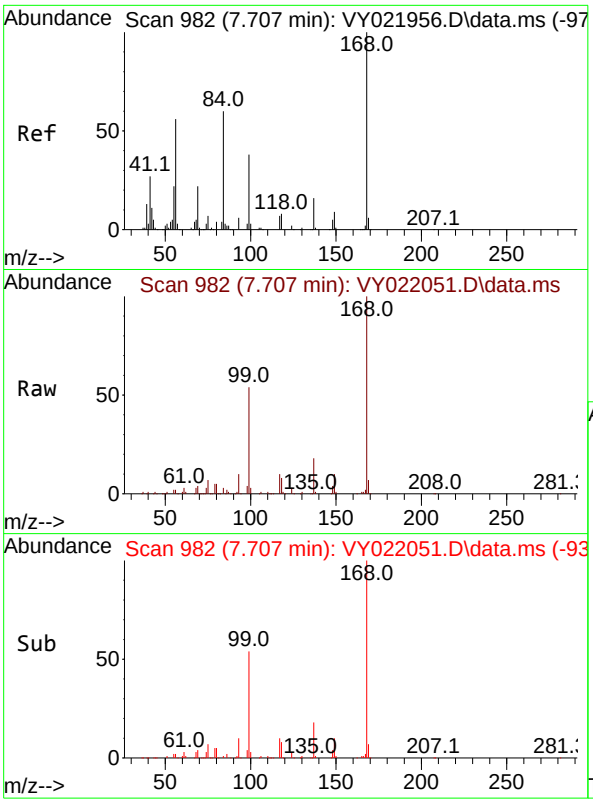
Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022051.D
Acq On : 29 Apr 2025 12:22
Operator : SY/MD
Sample : Q1872-23DL 4X
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Quant Time: Apr 30 01:33:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



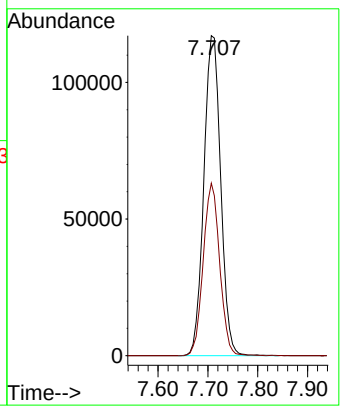


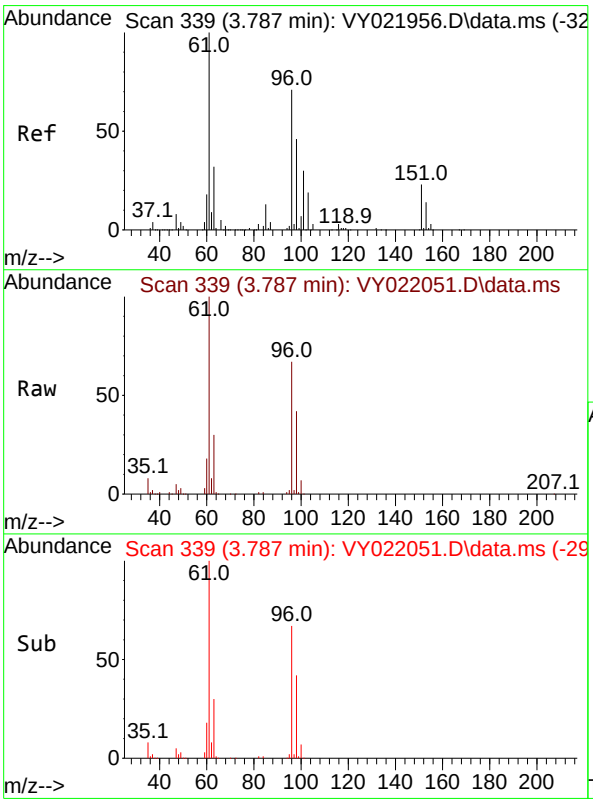
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:168 Resp: 274790

Ion	Ratio	Lower	Upper
168	100		
99	53.9	43.1	64.7

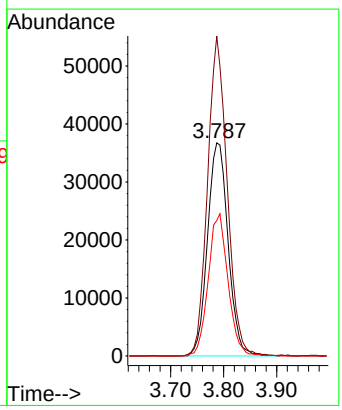


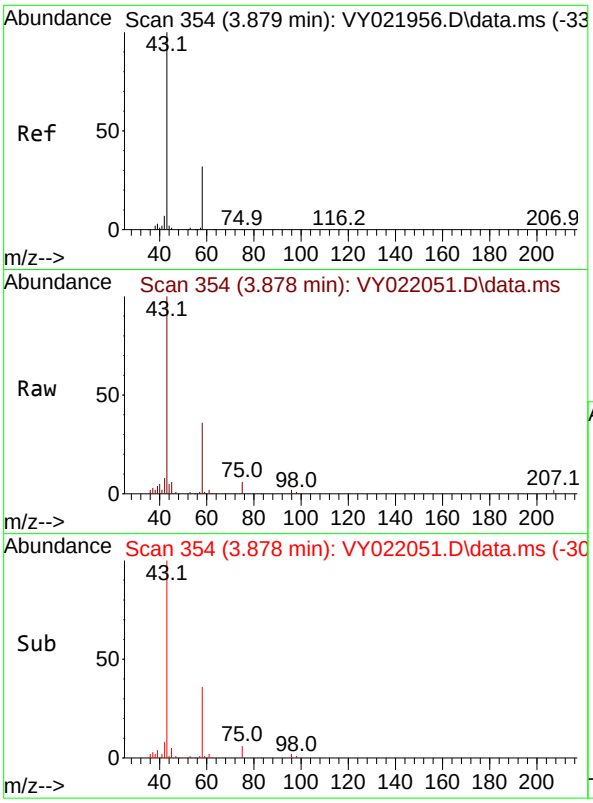


#12
1,1-Dichloroethene
Concen: 36.351 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 96 Resp: 99300

Ion	Ratio	Lower	Upper
96	100		
61	150.2	113.0	169.4
98	63.6	51.4	77.2



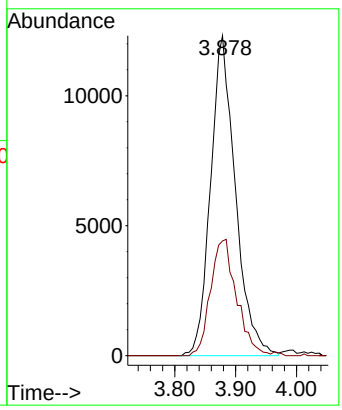


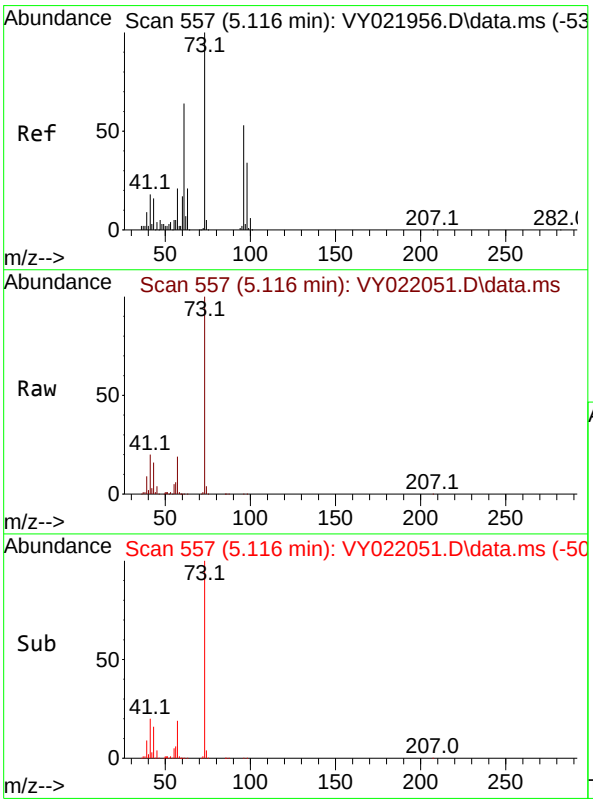
#16
Acetone
Concen: 91.302 ug/l
RT: 3.878 min Scan# 3
Delta R.T. -0.001 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 43 Resp: 34838

Ion	Ratio	Lower	Upper
43	100		
58	35.8	27.0	40.4

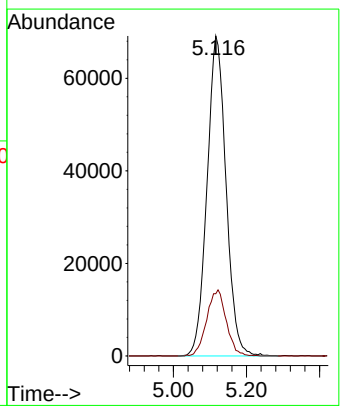


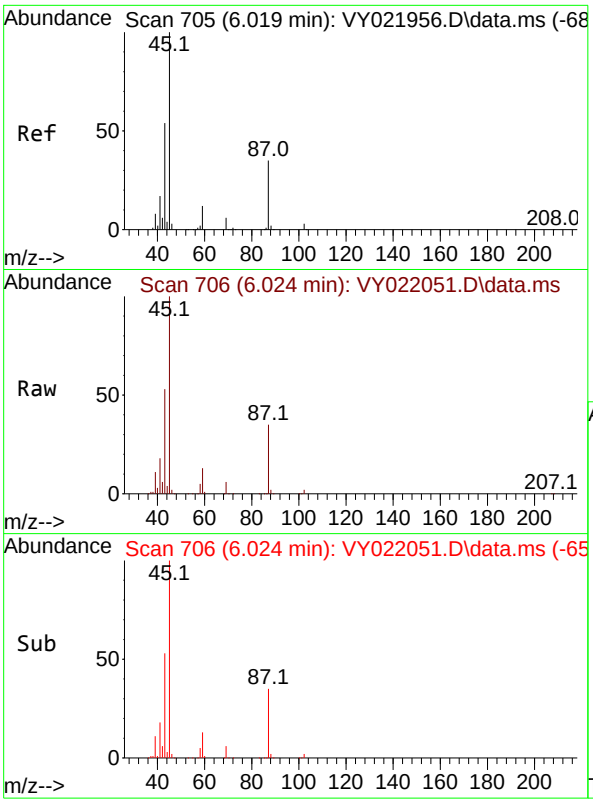


#19
Methyl tert-butyl Ether
Concen: 40.759 ug/l
RT: 5.116 min Scan# 557
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 73 Resp: 249204

Ion	Ratio	Lower	Upper
73	100		
57	19.5	16.9	25.3



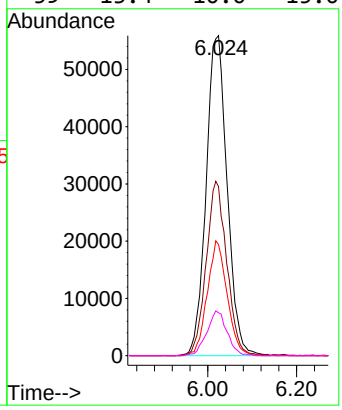


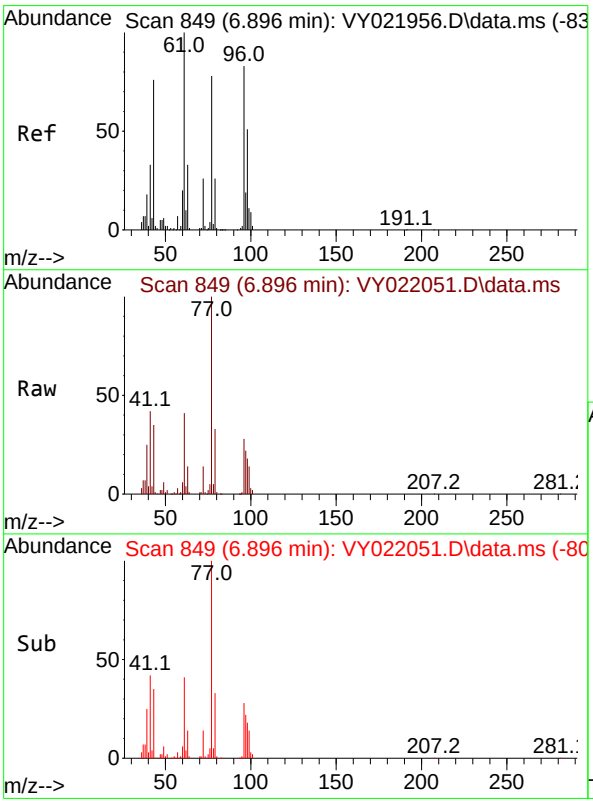
#22
Diisopropyl ether
Concen: 25.973 ug/l
RT: 6.024 min Scan# 7
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 45 Resp: 183849

Ion	Ratio	Lower	Upper
45	100		
43	52.8	43.6	65.4
87	34.7	28.2	42.4
59	13.4	10.0	15.0

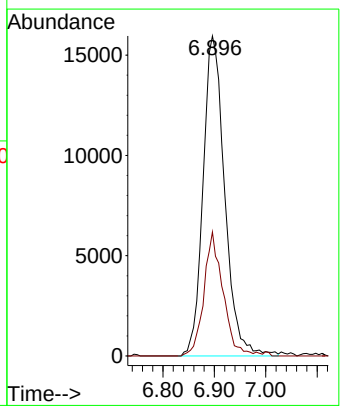


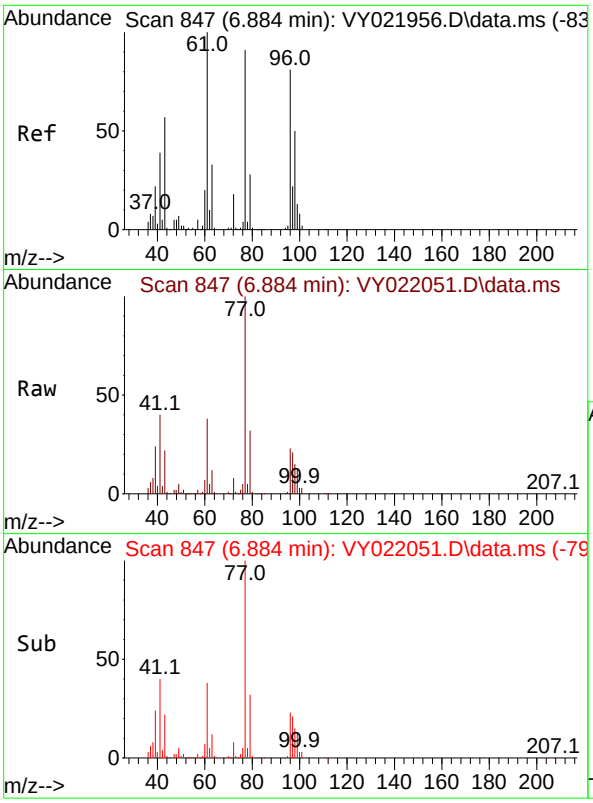


#25
2-Butanone
Concen: 80.829 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 43 Resp: 46765

Ion	Ratio	Lower	Upper
43	100		
72	38.8	27.0	40.4



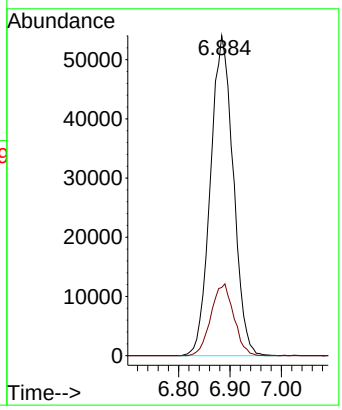


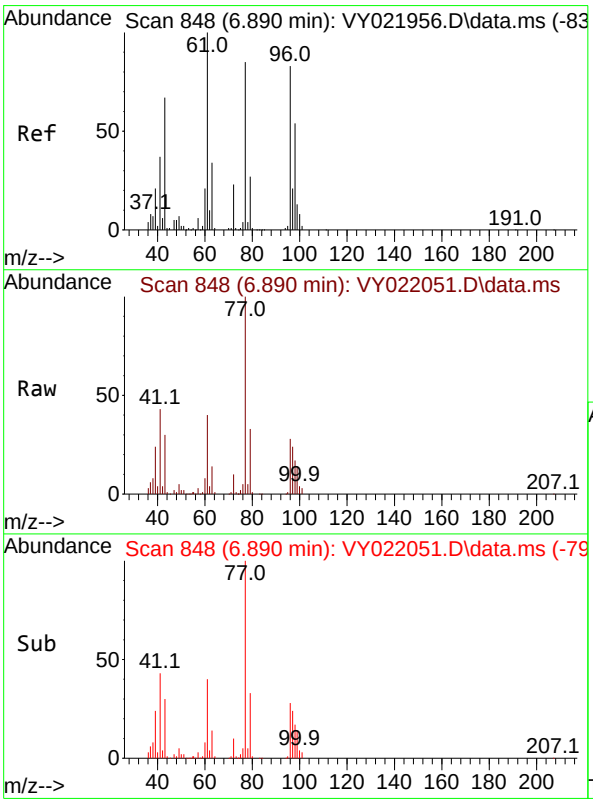
#26
2,2-Dichloropropane
Concen: 38.808 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 77 Resp: 166890

Ion	Ratio	Lower	Upper
77	100		
97	22.5	12.4	37.4

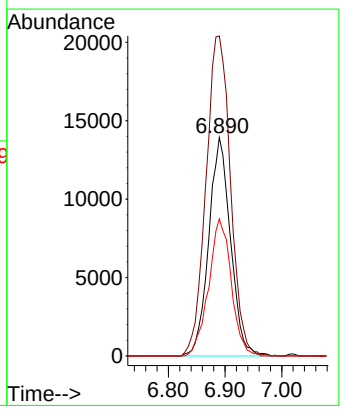


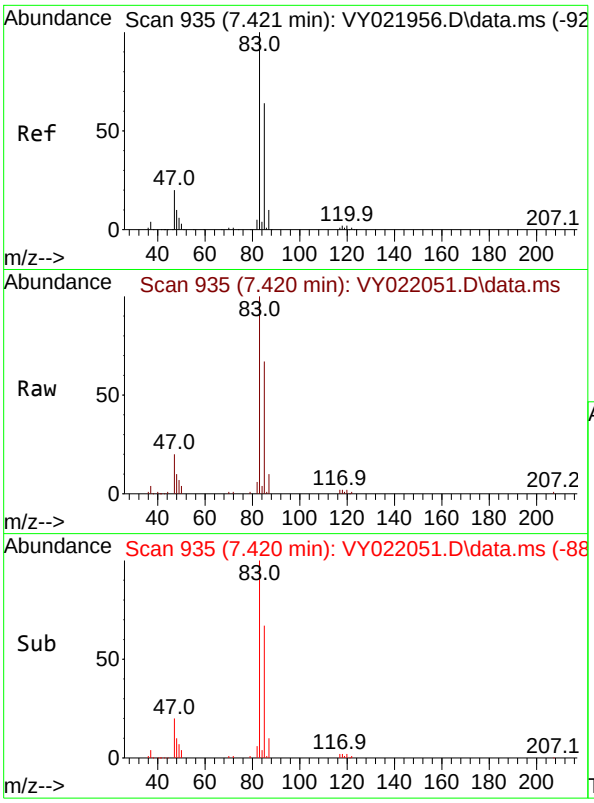


#27
cis-1,2-Dichloroethene
Concen: 10.837 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 96 Resp: 37071

Ion	Ratio	Lower	Upper
96	100		
61	164.9	0.0	251.4
98	65.1	0.0	128.4



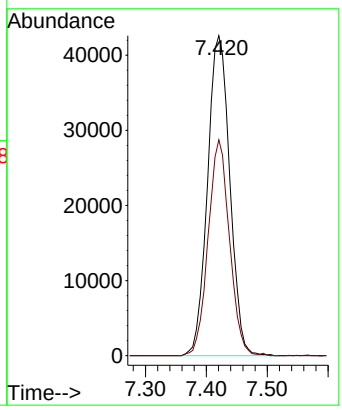


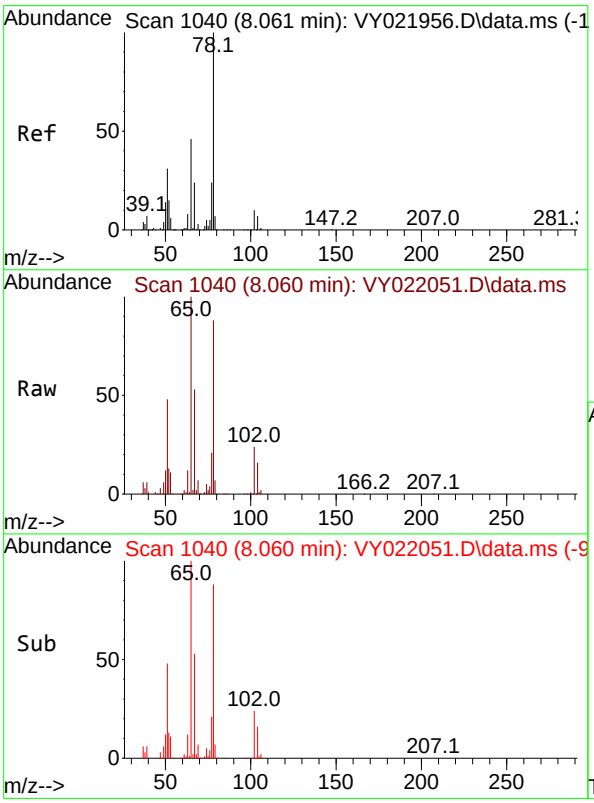
#30
Chloroform
Concen: 19.896 ug/l
RT: 7.420 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 83 Resp: 108280

Ion	Ratio	Lower	Upper
83	100		
85	67.4	51.3	76.9

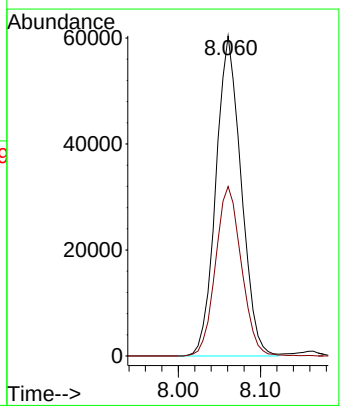


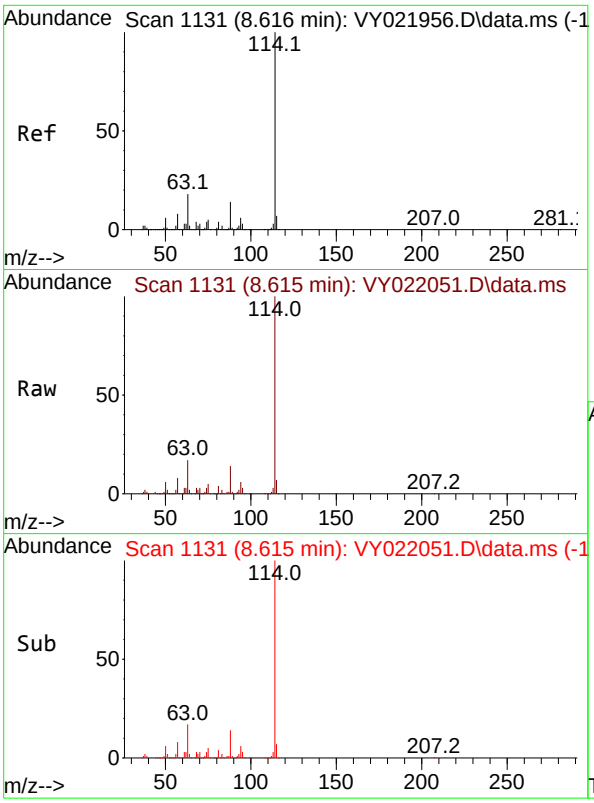


#33
1,2-Dichloroethane-d4
Concen: 50.782 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 65 Resp: 128893

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.8



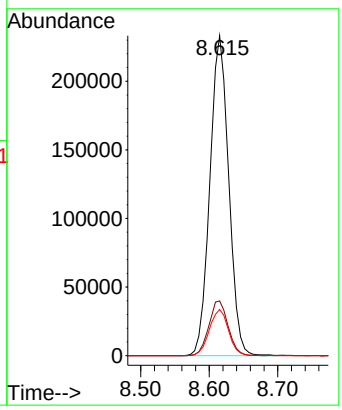


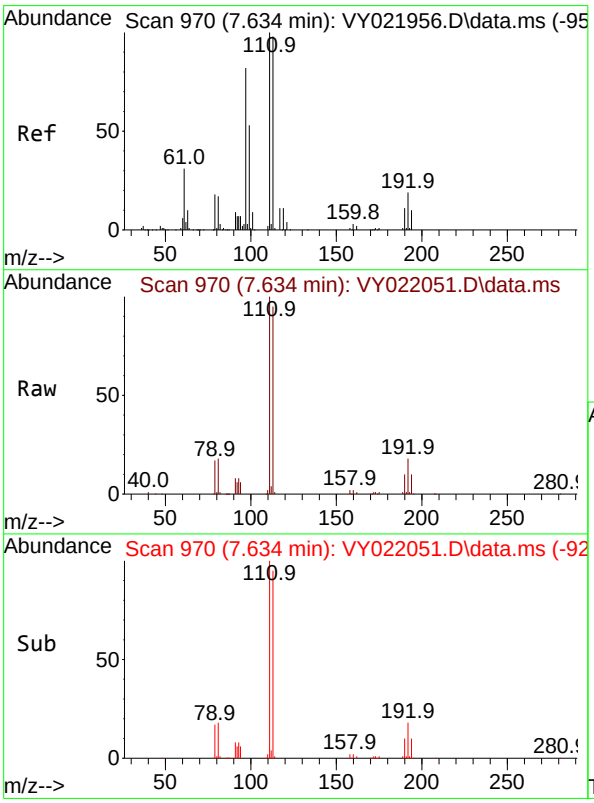
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:114 Resp: 444877

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	35.4
88	14.5	0.0	28.2

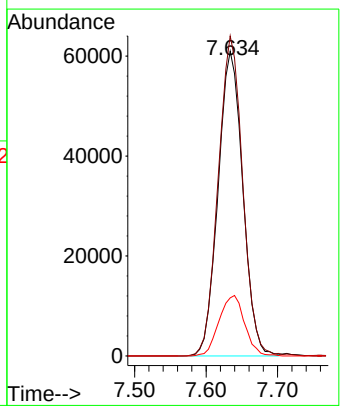


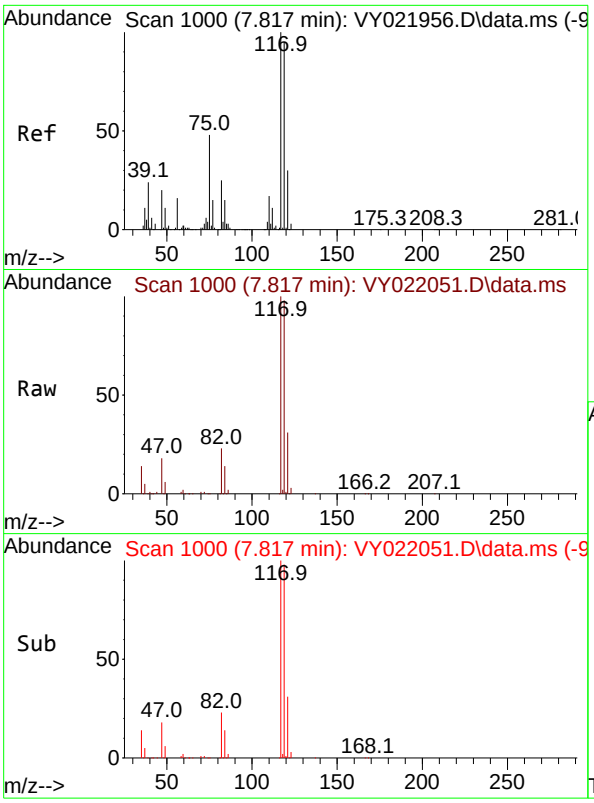


#35
Dibromofluoromethane
Concen: 49.720 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:113 Resp: 146131

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.8	122.8
192	20.6	15.6	23.4



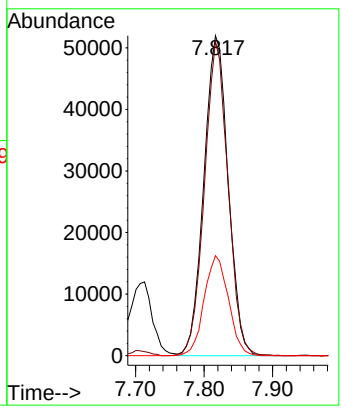


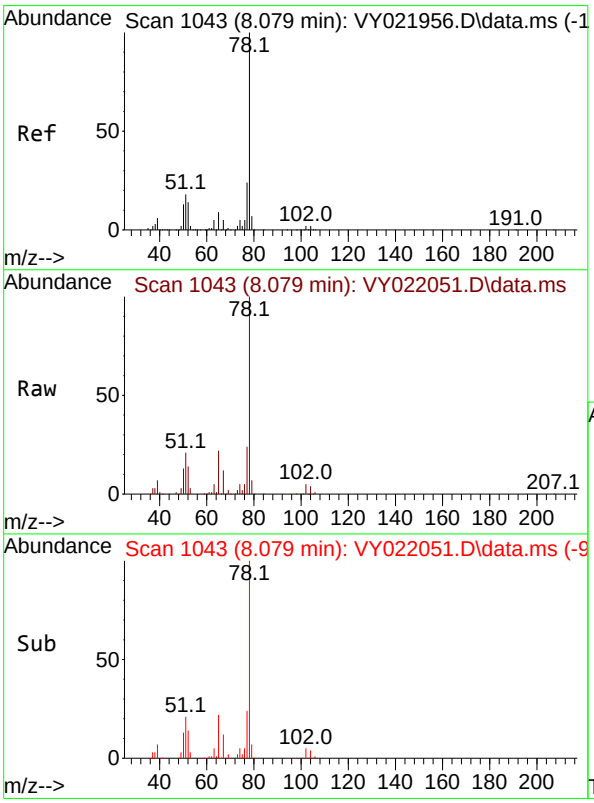
#38
Carbon Tetrachloride
Concen: 27.128 ug/l
RT: 7.817 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:117 Resp: 127978

Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.2	114.4
121	31.3	24.0	36.0

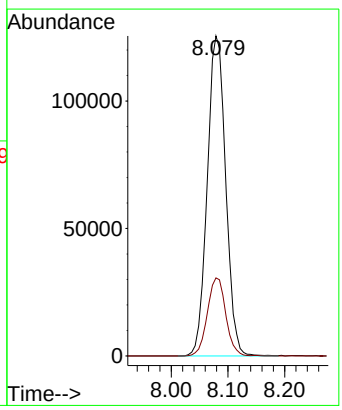


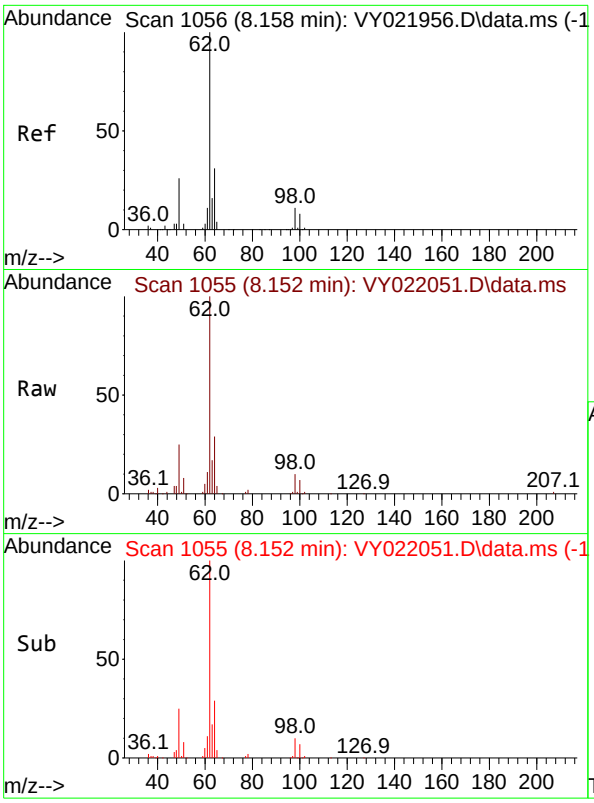


#40
Benzene
Concen: 23.002 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 78 Resp: 283874

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9



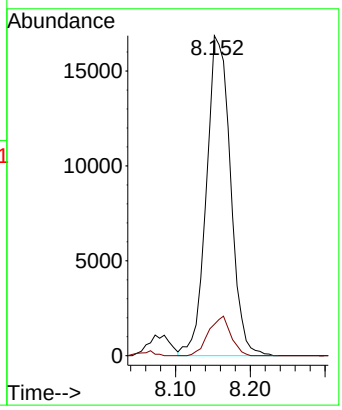


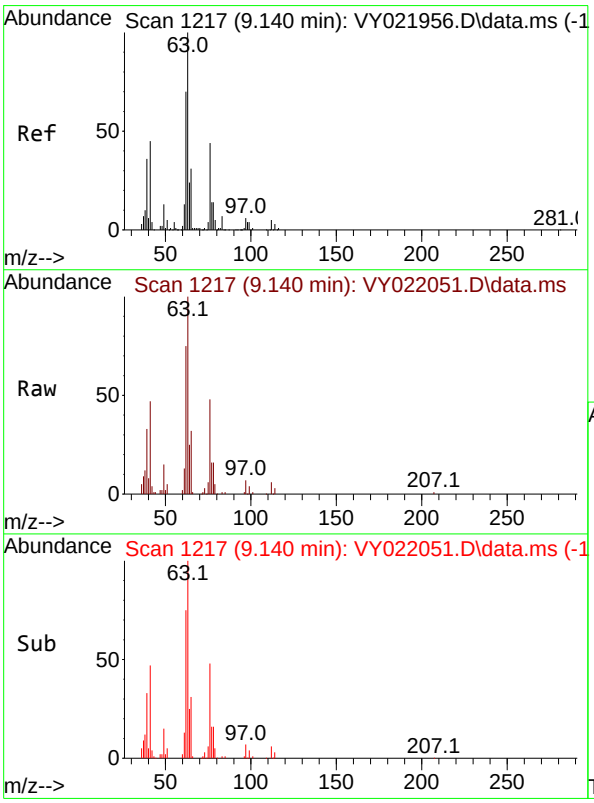
#42
1,2-Dichloroethane
Concen: 12.350 ug/l
RT: 8.152 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 62 Resp: 37736

Ion	Ratio	Lower	Upper
62	100		
98	11.4	0.0	22.0

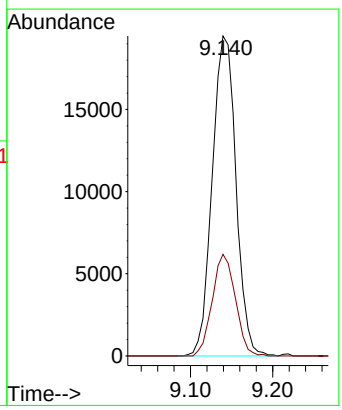


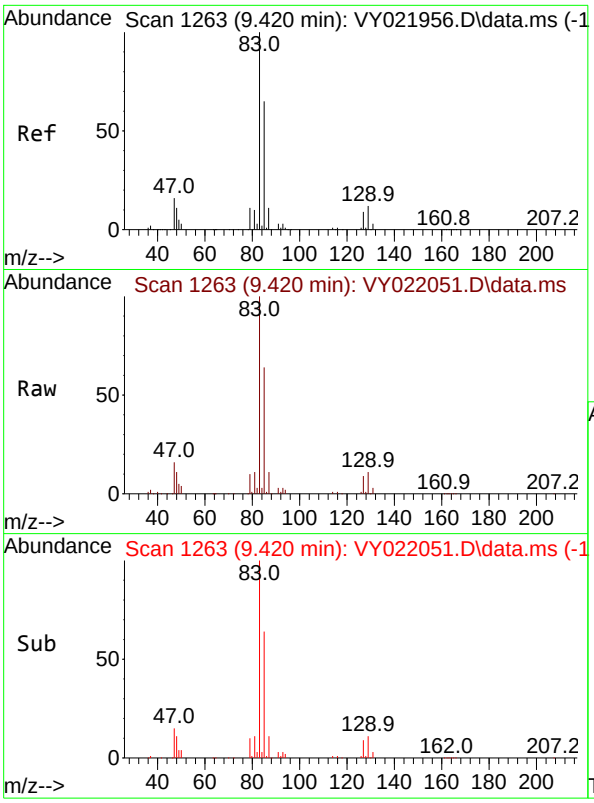


#45
1,2-Dichloropropane
Concen: 14.314 ug/l
RT: 9.140 min Scan# 1217
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 63 Resp: 39066

Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.2	37.8



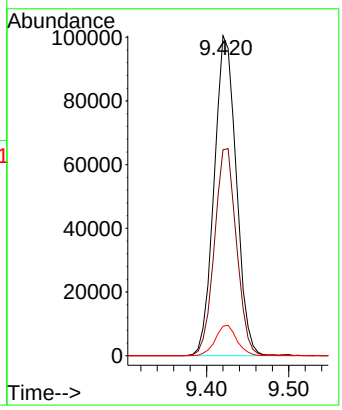


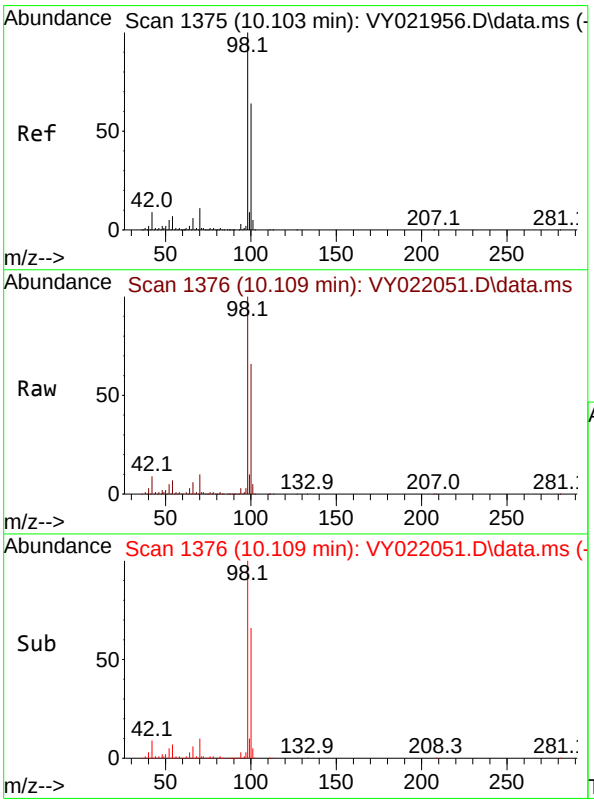
#47
Bromodichloromethane
Concen: 44.022 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 83 Resp: 187884

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.8	77.8
127	9.2	7.0	10.6

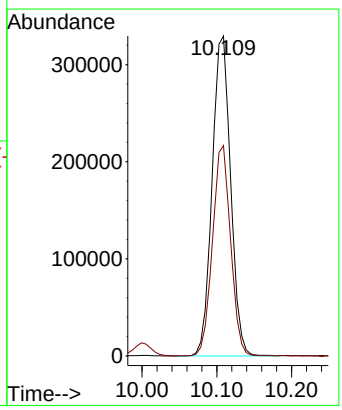


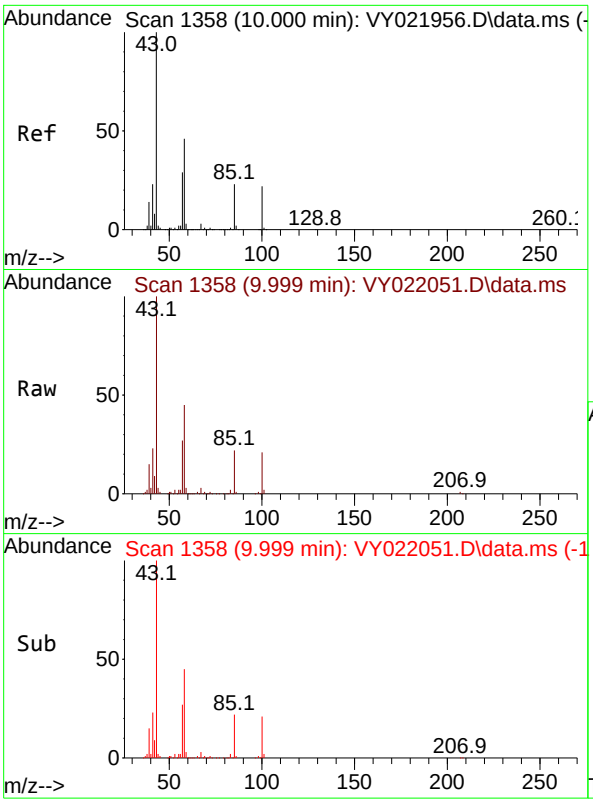


#50
Toluene-d8
Concen: 51.259 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 98 Resp: 567972

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.6	77.4



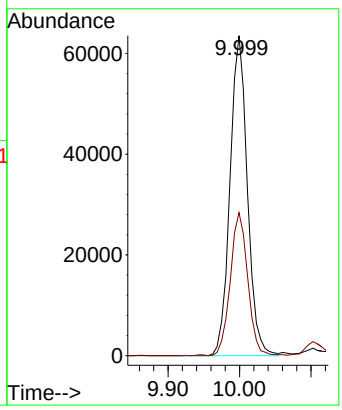


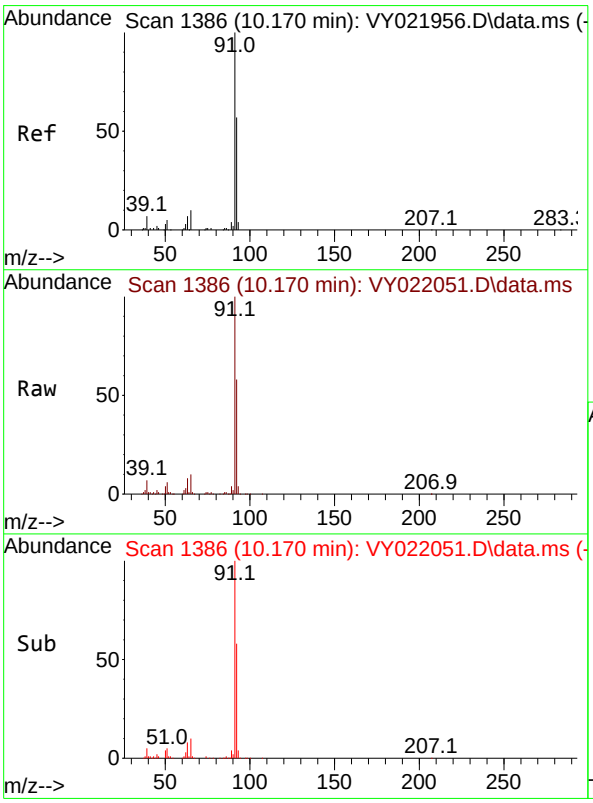
#51
4-Methyl-2-Pentanone
Concen: 75.133 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 43 Resp: 107247

Ion	Ratio	Lower	Upper
43	100		
58	44.8	36.6	55.0

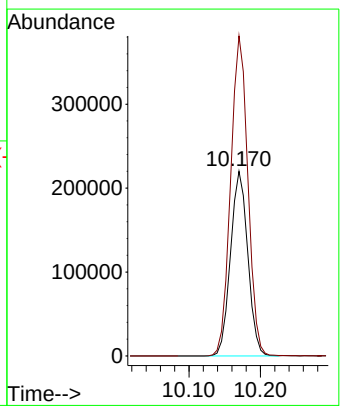


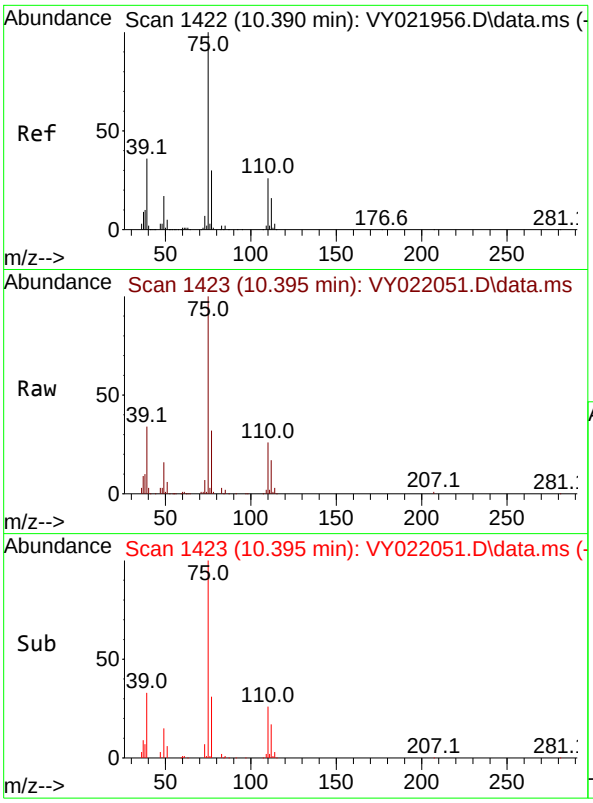


#52
Toluene
Concen: 46.109 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 92 Resp: 368349

Ion	Ratio	Lower	Upper
92	100		
91	173.4	138.6	207.8



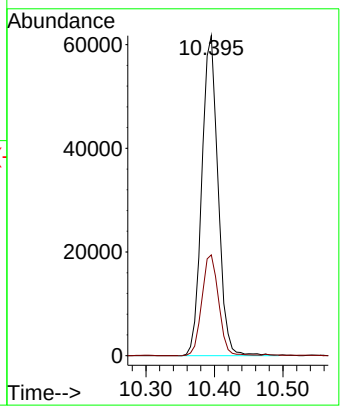


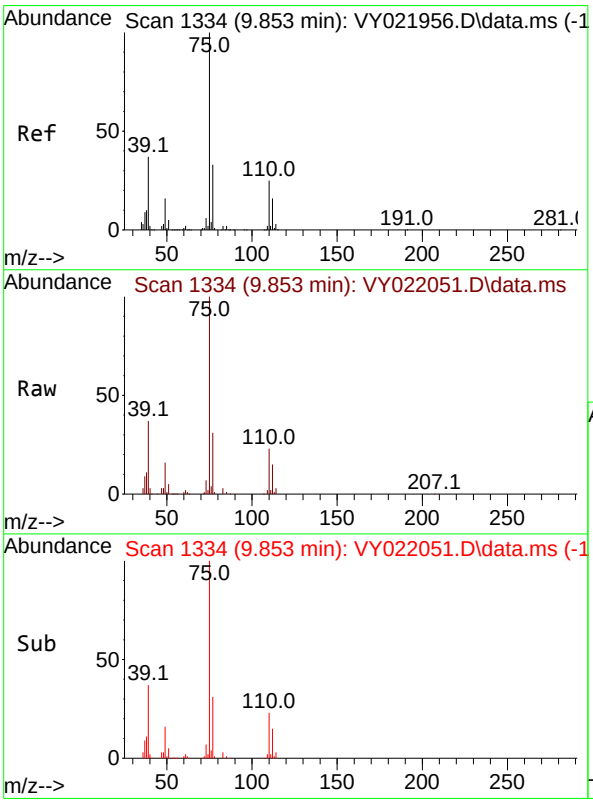
#53
t-1,3-Dichloropropene
Concen: 27.796 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 75 Resp: 101756

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.0	36.0

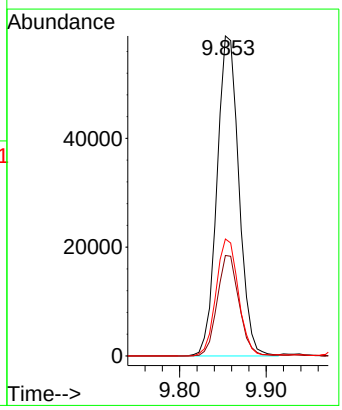


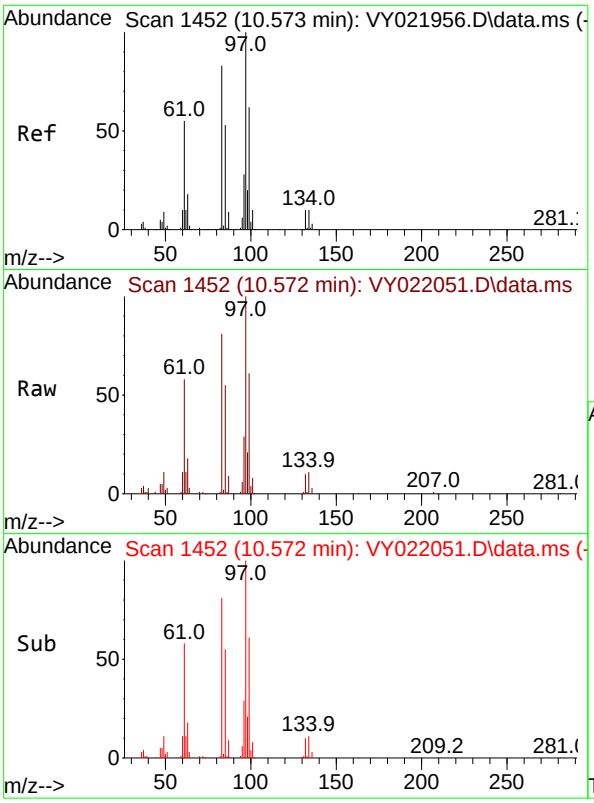


#54
cis-1,3-Dichloropropene
Concen: 23.770 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 75 Resp: 103440

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.6	40.0
39	36.6	29.6	44.4



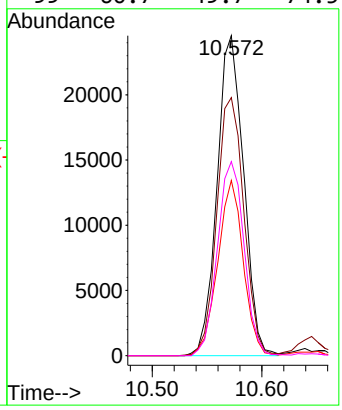


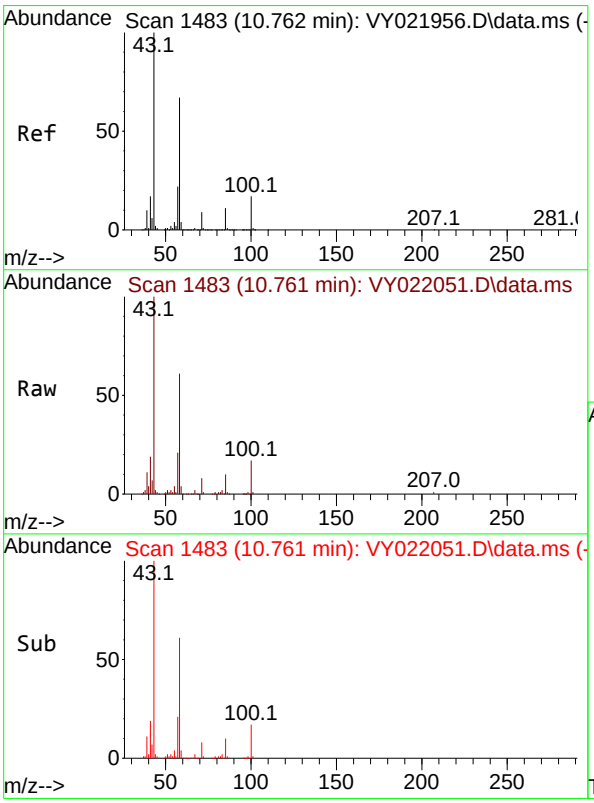
#55
1,1,2-Trichloroethane
Concen: 18.103 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 97 Resp: 41313

Ion	Ratio	Lower	Upper
97	100		
83	80.6	66.7	100.1
85	54.8	42.6	64.0
99	60.7	49.7	74.5

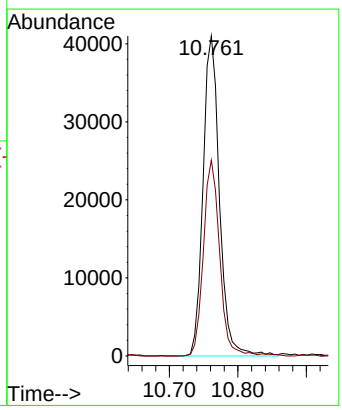


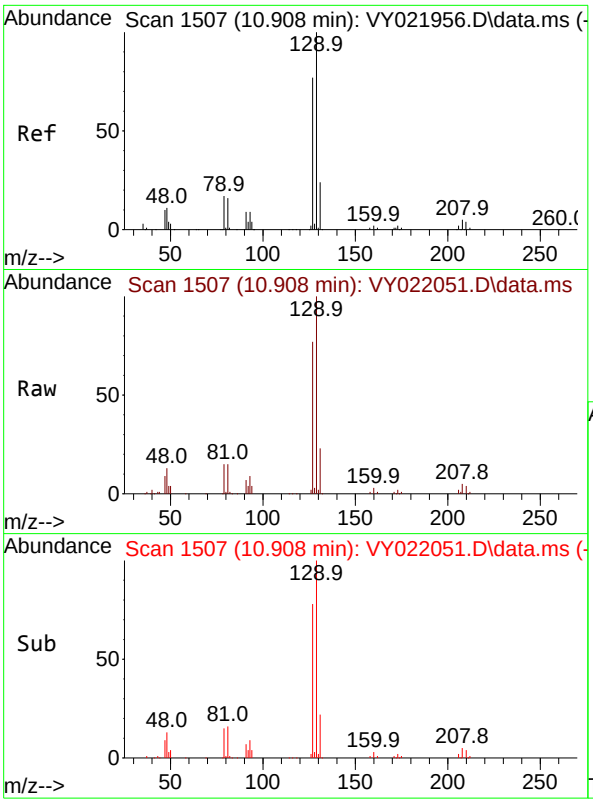


#59
2-Hexanone
Concen: 72.648 ug/l
RT: 10.761 min Scan# 1483
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 43 Resp: 68399

Ion	Ratio	Lower	Upper
43	100		
58	60.4	32.0	96.0



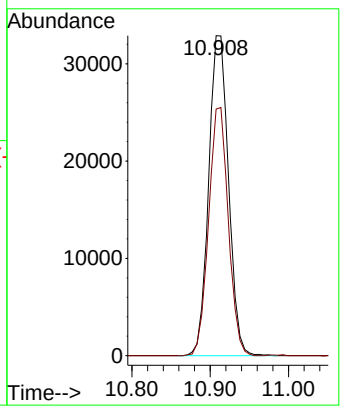


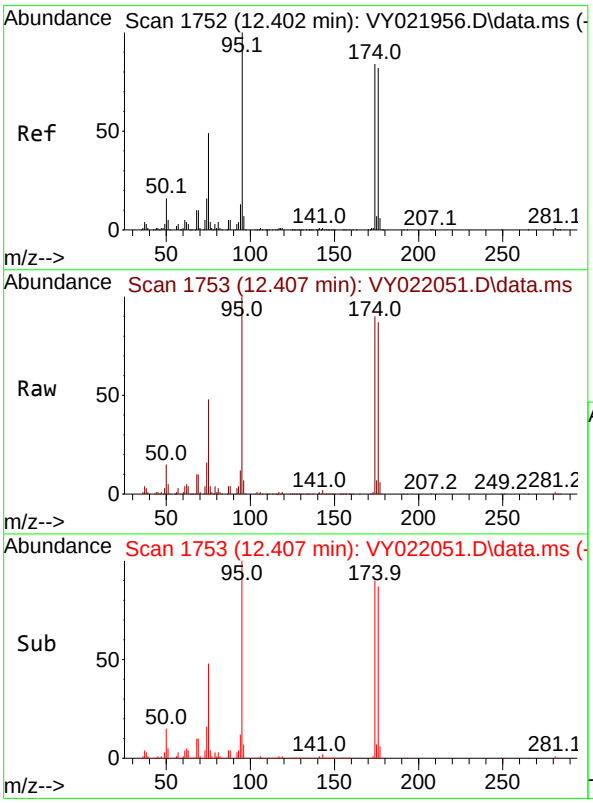
#60
Dibromochloromethane
Concen: 18.275 ug/l
RT: 10.908 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:129 Resp: 57740

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.3

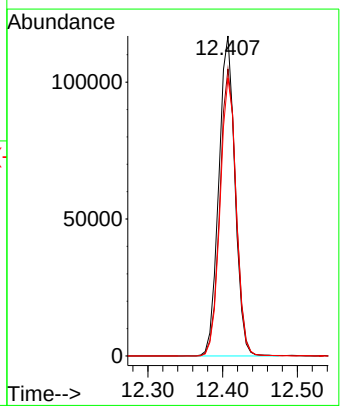


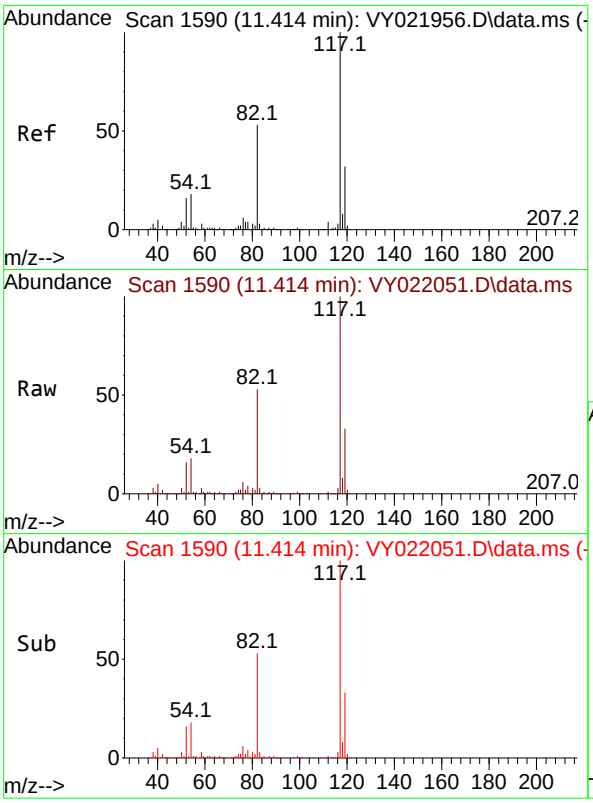


#62
4-Bromofluorobenzene
Concen: 47.228 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 95 Resp: 176167

Ion	Ratio	Lower	Upper
95	100		
174	89.9	0.0	179.0
176	86.6	0.0	171.8



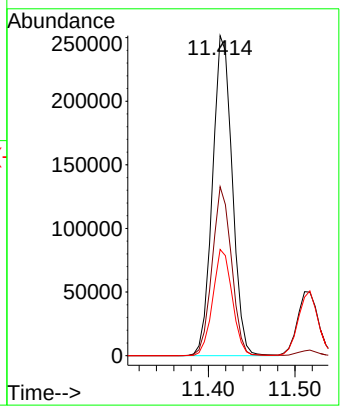


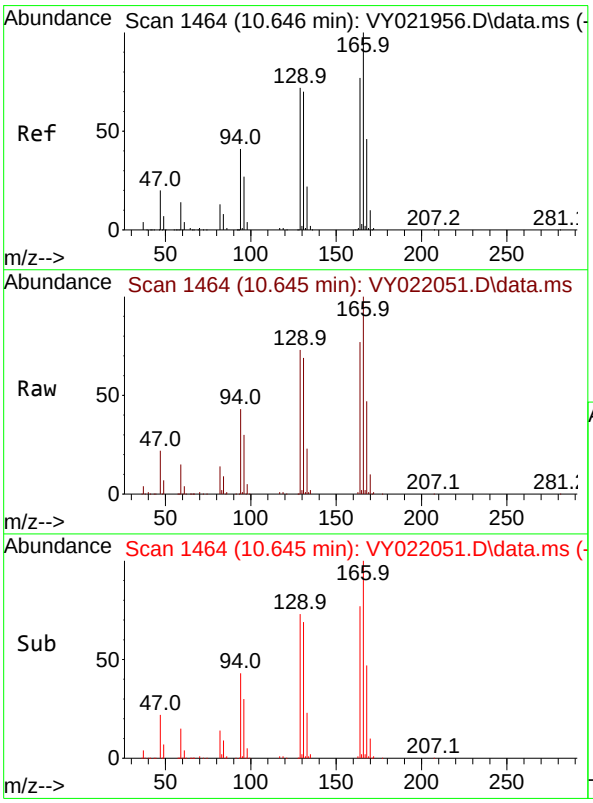
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:117 Resp: 398616

Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.1	63.1
119	33.2	25.7	38.5

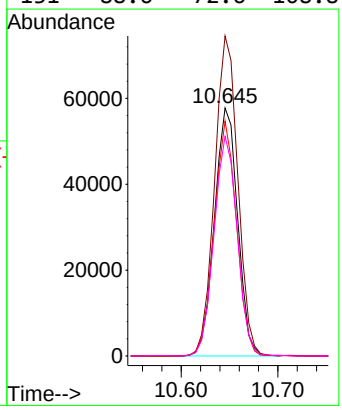


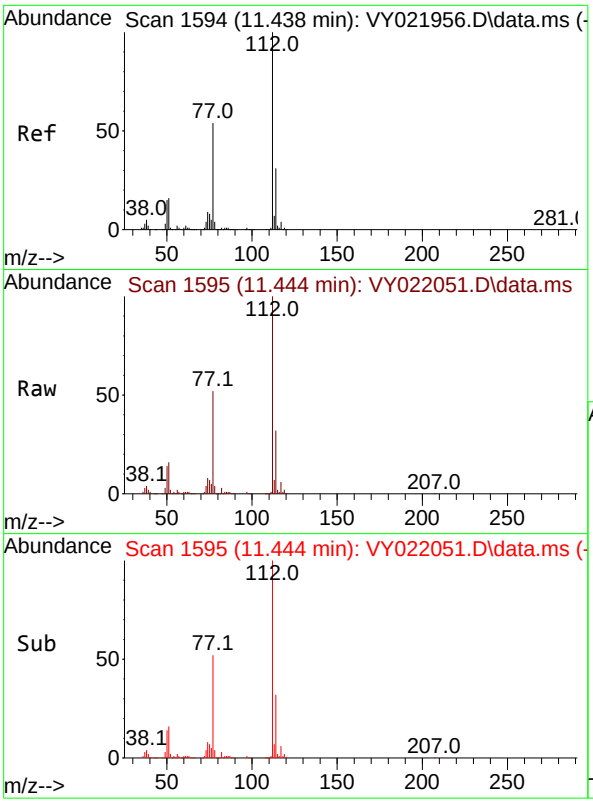


#64
Tetrachloroethene
Concen: 25.570 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:164 Resp: 96153

Ion	Ratio	Lower	Upper
164	100		
166	129.1	103.6	155.4
129	94.7	74.2	111.4
131	88.6	72.6	108.8



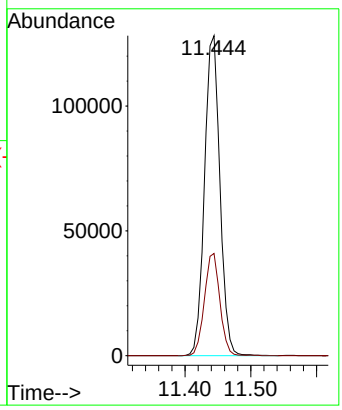


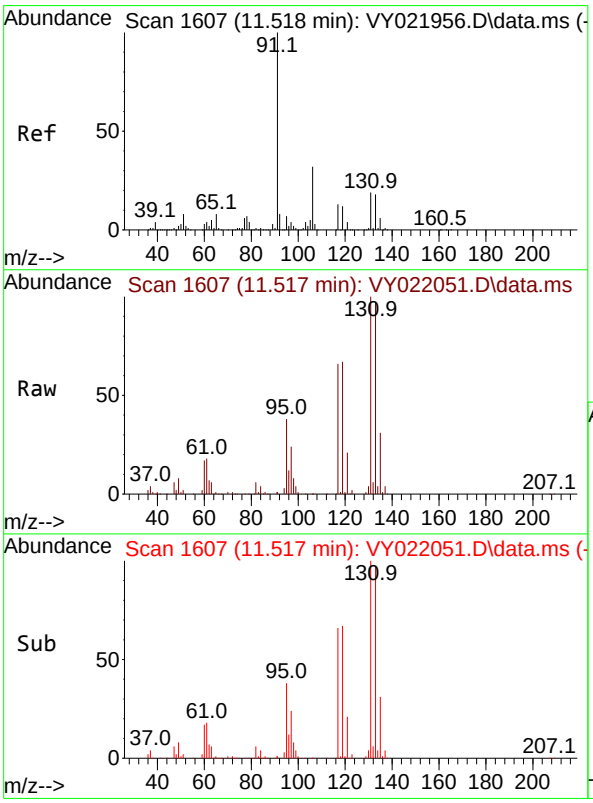
#65
Chlorobenzene
Concen: 23.425 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:112 Resp: 208808

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.4

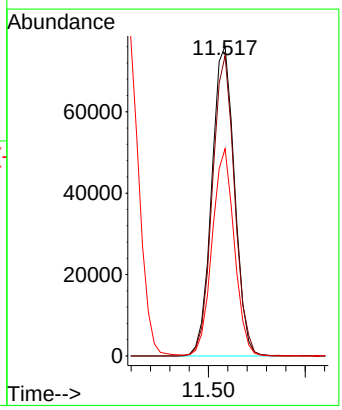


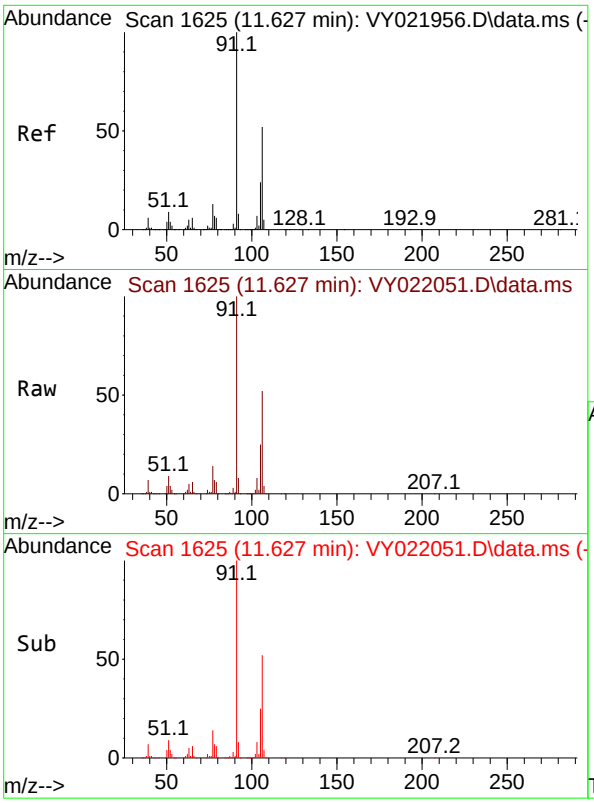


#66
1,1,1,2-Tetrachloroethane
Concen: 39.632 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:131 Resp: 124374

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.8	143.3
119	65.0	32.4	97.0



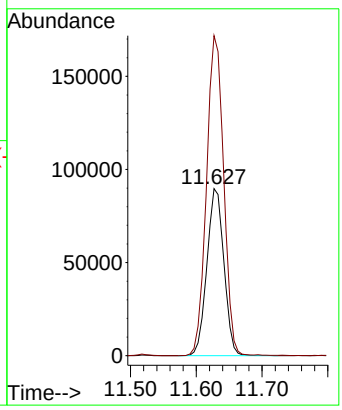


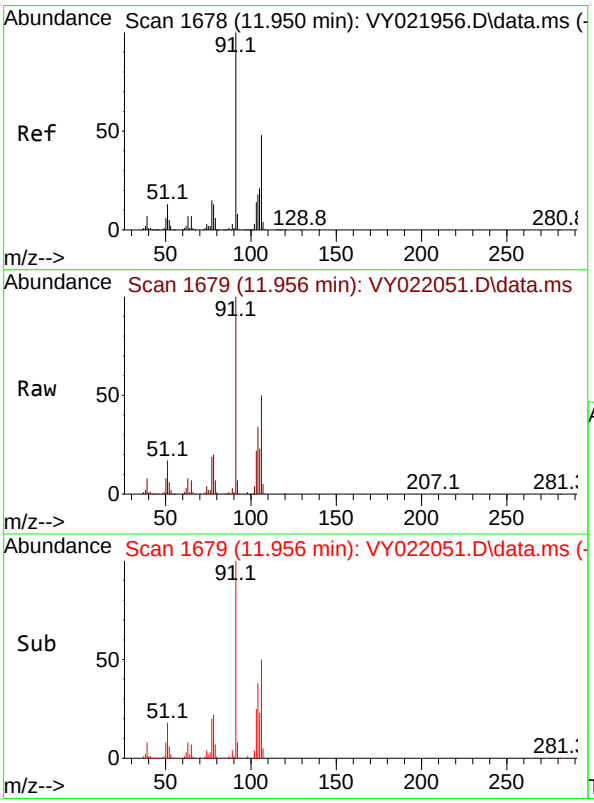
#68
m/p-Xylenes
Concen: 27.792 ug/l
RT: 11.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:106 Resp: 161265

Ion	Ratio	Lower	Upper
106	100		
91	193.7	156.2	234.2

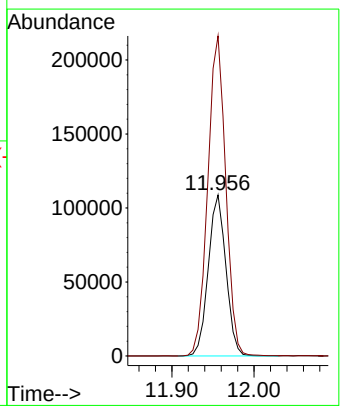


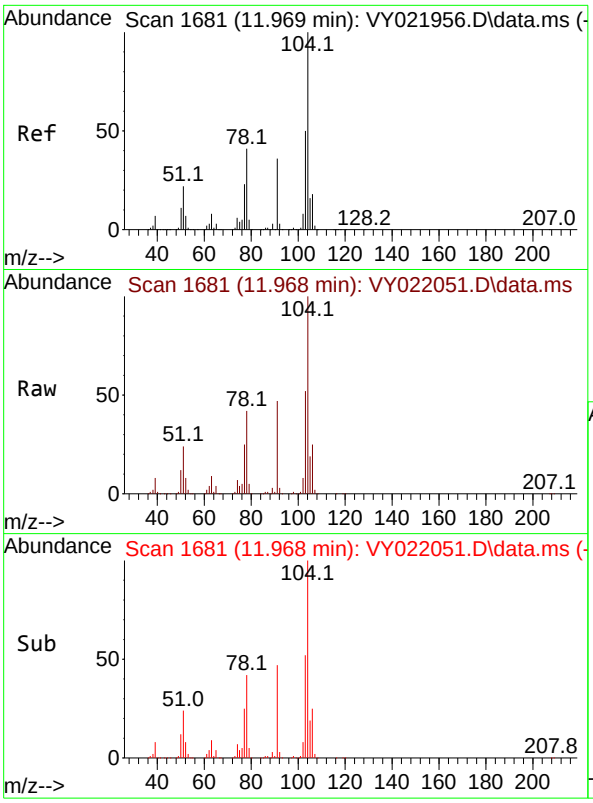


#69
o-Xylene
Concen: 30.346 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:106 Resp: 162292

Ion	Ratio	Lower	Upper
106	100		
91	202.2	103.0	308.9



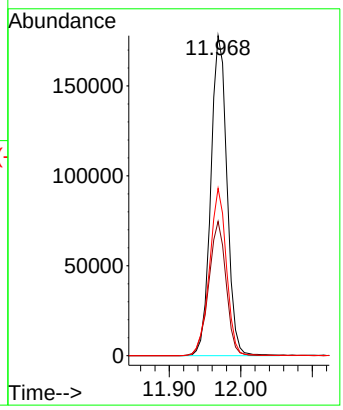


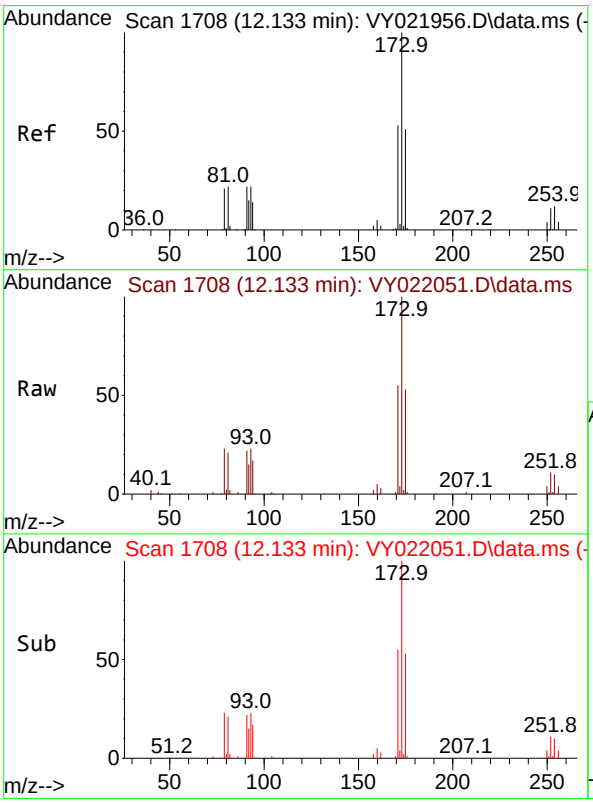
#70
Styrene
Concen: 31.114 ug/l
RT: 11.968 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:104 Resp: 279394

Ion	Ratio	Lower	Upper
104	100		
78	45.0	36.6	54.8
103	54.7	43.8	65.8

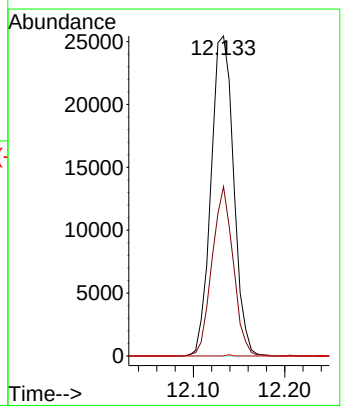


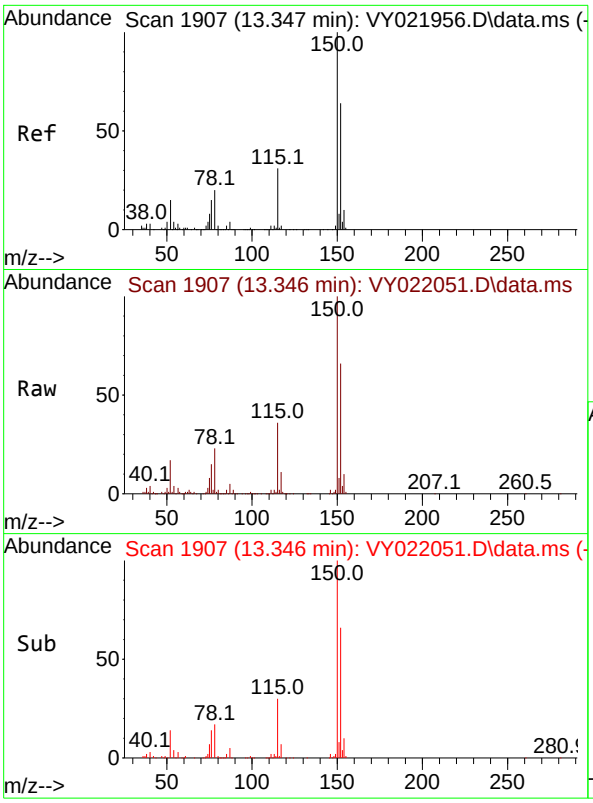


#71
Bromoform
Concen: 23.996 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:173 Resp: 43782

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.3	72.8
254	0.1	0.0	0.0#



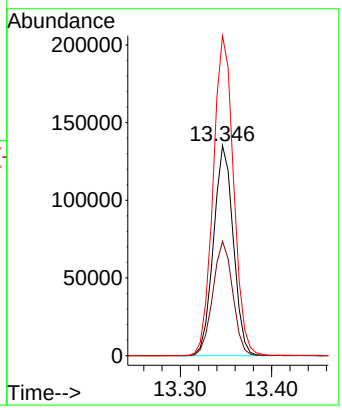


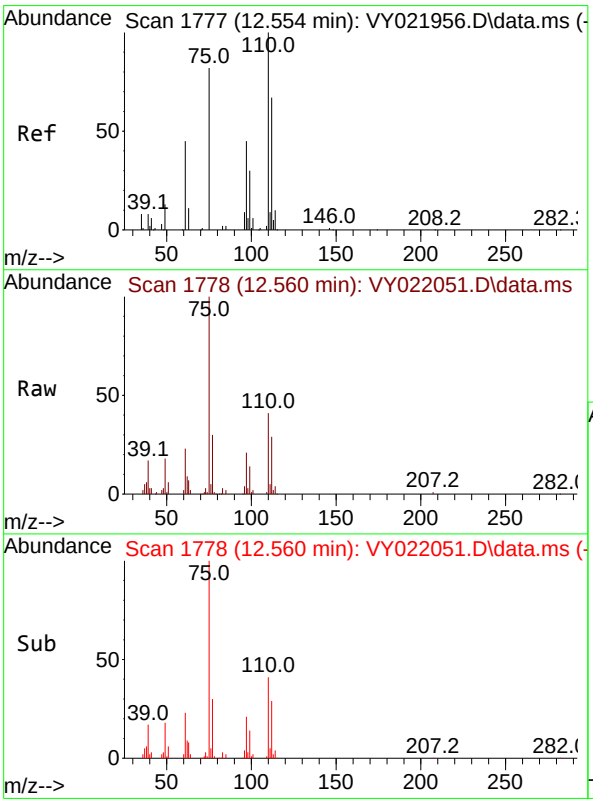
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:152 Resp: 202989

Ion	Ratio	Lower	Upper
152	100		
115	55.0	28.0	84.0
150	158.1	0.0	345.6

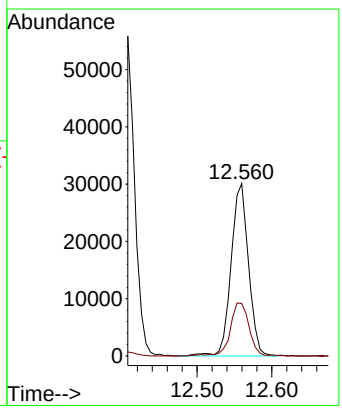


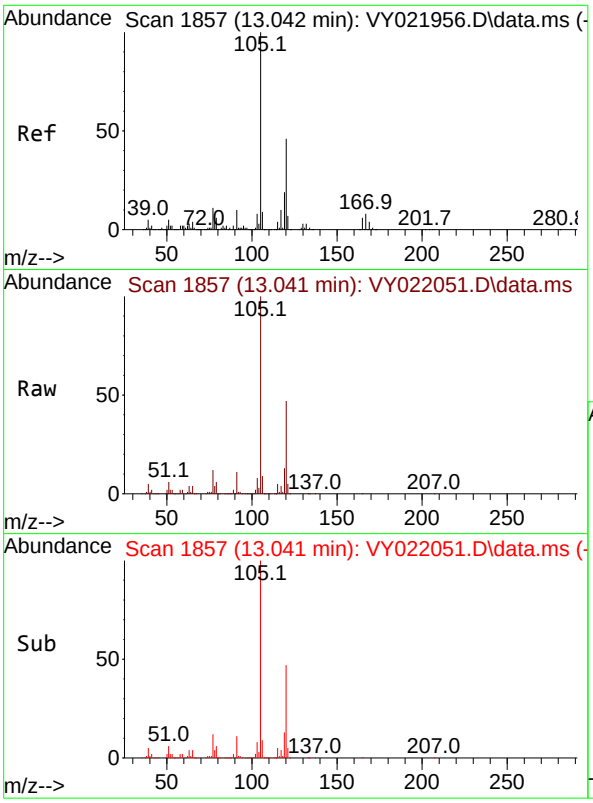


#76
1,2,3-Trichloropropane
Concen: 28.027 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion: 75 Resp: 48730

Ion	Ratio	Lower	Upper
75	100		
77	33.4	0.0	0.0#



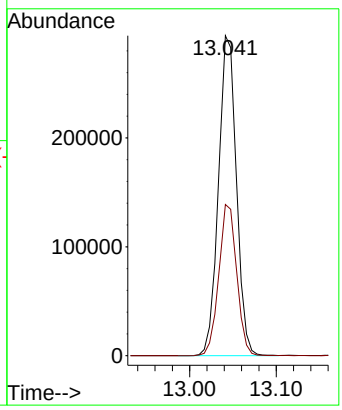


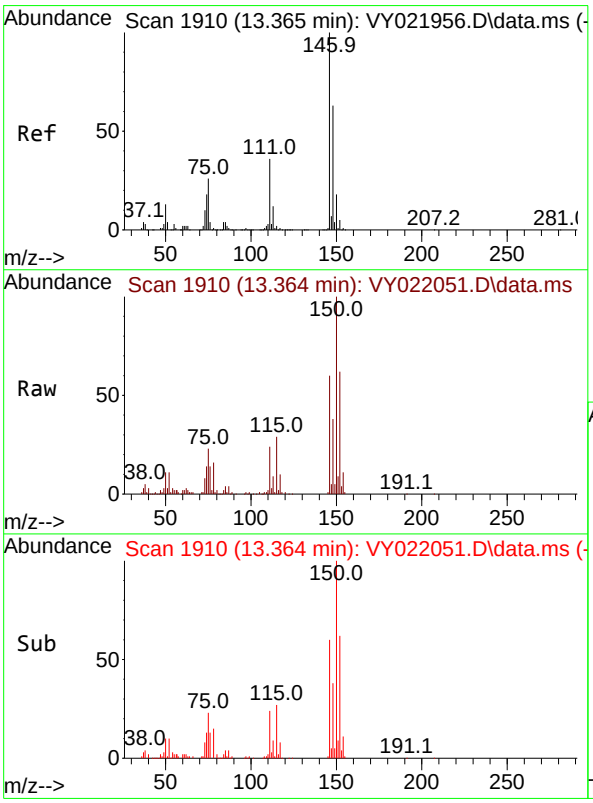
#84
1,2,4-Trimethylbenzene
Concen: 37.827 ug/l
RT: 13.041 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:105 Resp: 422779

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.4	70.0

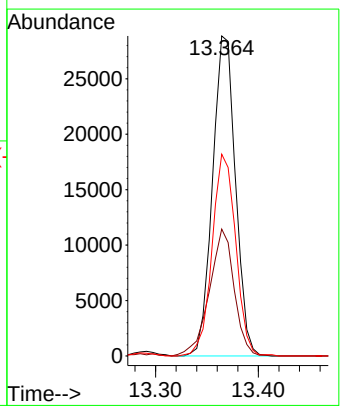


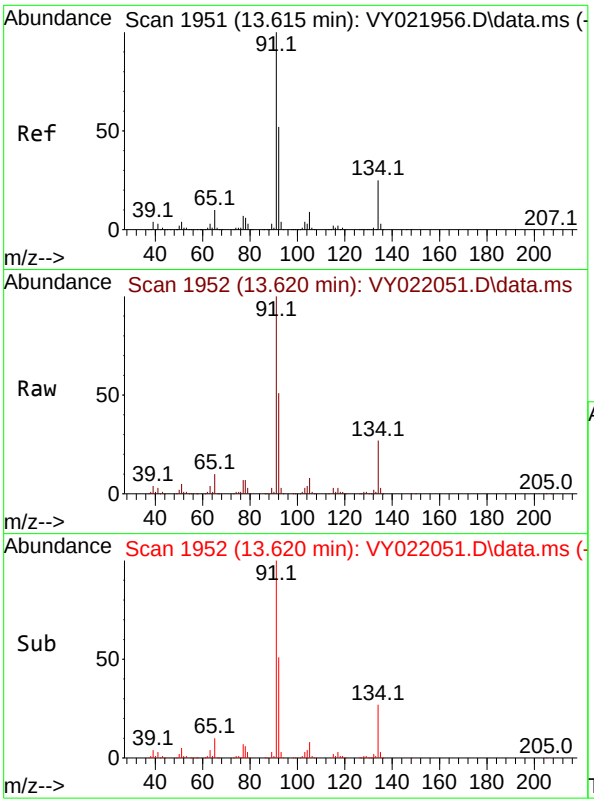


#88
1,4-Dichlorobenzene
Concen: 6.490 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:146 Resp: 44739

Ion	Ratio	Lower	Upper
146	100		
111	42.7	19.2	57.6
148	64.8	32.0	96.0



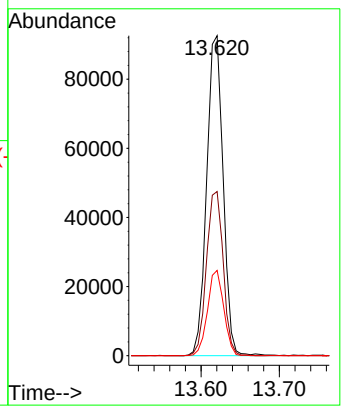


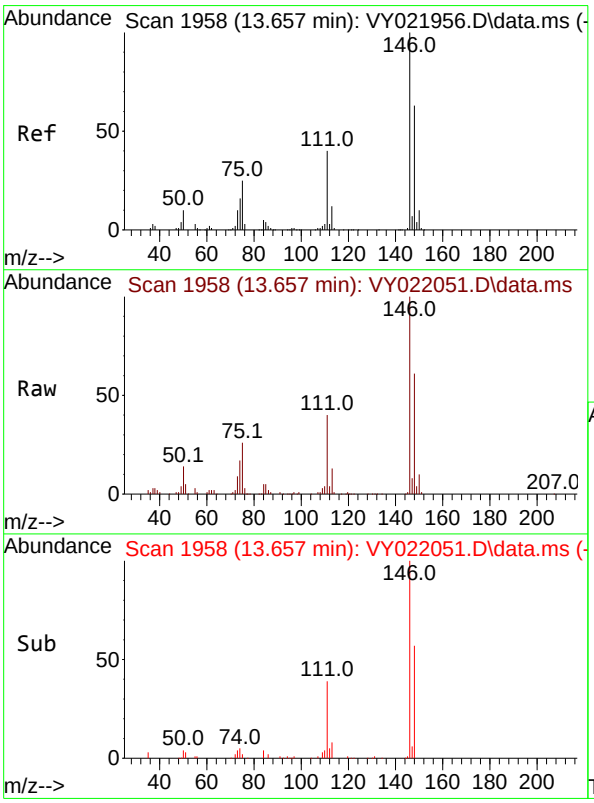
#89
n-Butylbenzene
Concen: 12.111 ug/l
RT: 13.620 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion: 91 Resp: 134799

Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.5	79.5
134	26.3	13.4	40.1

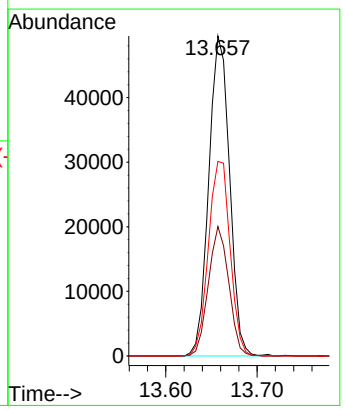


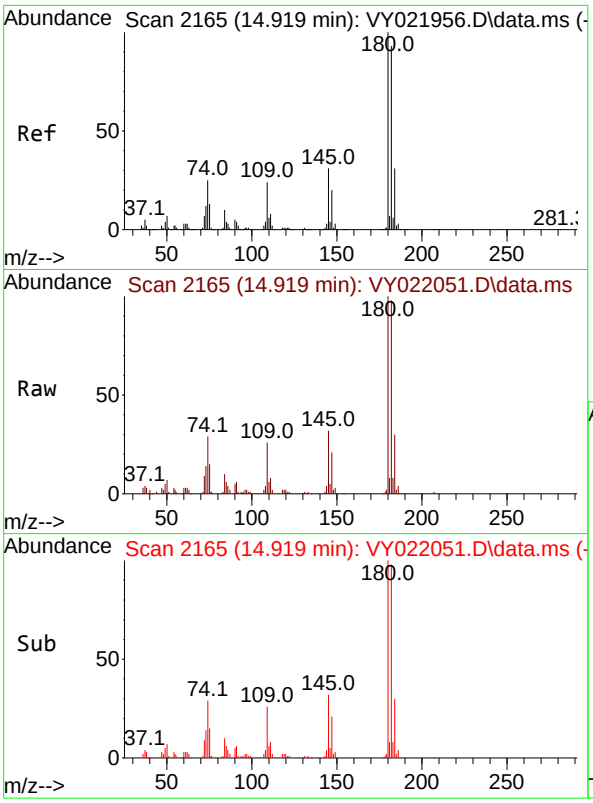


#91
1,2-Dichlorobenzene
Concen: 12.895 ug/l
RT: 13.657 min Scan# 1958
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Tgt Ion:146 Resp: 78278

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.7	59.1
148	63.6	32.1	96.3



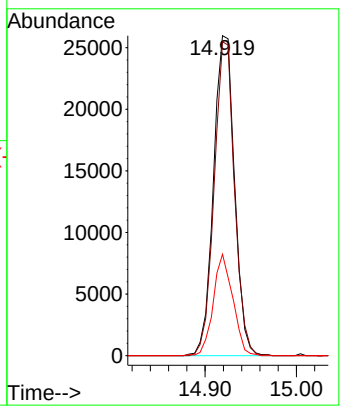


#93
1,2,4-Trichlorobenzene
Concen: 12.064 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022051.D
Acq: 29 Apr 2025 12:22

Instrument :
MSVOA_Y
ClientSampleId :
HW0425-PT-VOA-SOILDL

Tgt Ion:180 Resp: 41502

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.1	141.4
145	29.5	15.0	45.0



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.7
Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.2
Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.1
Ethyl Acetate	0.166	0.161	0.163	0.161	0.153	0.151	0.159	3.7
Isopropyl Acetate	0.301	0.293	0.314	0.312	0.309	0.308	0.306	2.5
Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.3
Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.6
Tetrahydrofuran	0.067	0.065	0.072	0.073	0.066	0.067	0.068	4.9
Trichlorofluoromethane	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.9
1,1,2-Trichlorotrifluoroethane	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.8
Tert butyl alcohol	0.027	0.024	0.027	0.026	0.023	0.025	0.025	6.4
Diethyl Ether	0.283	0.266	0.253	0.247	0.246	0.240	0.256	6.2
1,1-Dichloroethene	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5
Acrolein	0.053	0.045	0.051	0.042	0.040	0.042	0.046	11.6
Acrylonitrile	0.103	0.090	0.099	0.093	0.088	0.088	0.094	6.6
Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.7
Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.7
Methyl tert-butyl Ether	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.6
Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.2
Methylene Chloride	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.7
trans-1,2-Dichloroethene	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.3
Vinyl Acetate	0.657	0.684	0.700	0.716	0.713	0.694	0.694	3.1
1,1-Dichloroethane	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.9
Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.6
2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.5
Carbon Tetrachloride	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.9
2,2-Dichloropropane	0.841	0.830	0.763	0.743	0.770	0.748	0.782	5.4
cis-1,2-Dichloroethene	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.1
Bromochloromethane	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.2
Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.2

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,1,1-Trichloroethane	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.8
Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	6
1,1-Dichloropropene	0.455	0.470	0.424	0.425	0.450	0.437	0.444	4.1
Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.1
1,2-Dichloroethane	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.3
Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.3
1,2-Dichloropropane	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.4
Dibromomethane	0.202	0.193	0.192	0.187	0.191	0.187	0.192	3
Bromodichloromethane	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.1
4-Methyl-2-Pentanone	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.9
Methyl methacrylate	0.120	0.130	0.147	0.150	0.150	0.151	0.141	9.2
Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.4
t-1,3-Dichloropropene	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.7
cis-1,3-Dichloropropene	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.3
1,1,2-Trichloroethane	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.8
1,3-Dichloropropane	0.413	0.420	0.405	0.409	0.417	0.404	0.411	1.6
2-Chloroethyl Vinyl ether	0.118	0.121	0.146	0.161	0.154	0.161	0.143	13.4
2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.5
Dibromochloromethane	0.345	0.355	0.354	0.352	0.367	0.357	0.355	2
1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.3
Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.6
Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.5
1,1,1,2-Tetrachloroethane	0.401	0.409	0.376	0.386	0.401	0.388	0.394	3.1
Hexachloroethane	0.715	0.710	0.614	0.638	0.689	0.677	0.674	6
Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.1
m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.3
o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.3
Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.2
Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.5
Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.2

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,1,2,2-Tetrachloroethane	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.4
1,2,3-Trichloropropane	0.498	0.445	0.418	0.405	0.408	0.397	0.428	8.8
Bromobenzene	0.855	0.831	0.780	0.828	0.890	0.881	0.844	4.8
n-propylbenzene	3.708	3.996	3.778	3.977	4.258	4.152	3.978	5.3
2-Chlorotoluene	2.253	2.343	2.179	2.280	2.435	2.391	2.314	4.1
1,3,5-Trimethylbenzene	2.467	2.757	2.614	2.800	2.978	2.898	2.752	6.8
4-Chlorotoluene	2.313	2.501	2.270	2.380	2.521	2.445	2.405	4.2
tert-Butylbenzene	2.246	2.382	2.263	2.494	2.725	2.701	2.469	8.5
1,2,4-Trimethylbenzene	2.415	2.717	2.631	2.784	3.027	2.945	2.753	8
sec-Butylbenzene	3.254	3.724	3.409	3.602	3.898	3.786	3.612	6.7
p-Isopropyltoluene	2.717	3.016	2.869	3.094	3.386	3.321	3.067	8.4
1,3-Dichlorobenzene	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.5
1,4-Dichlorobenzene	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.7
n-Butylbenzene	2.477	2.790	2.545	2.742	2.976	2.919	2.742	7.2
1,2-Dichlorobenzene	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.8
1,2-Dibromo-3-Chloropropane	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.9
1,2,4-Trichlorobenzene	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.1
Hexachlorobutadiene	0.522	0.545	0.483	0.480	0.555	0.544	0.521	6.3
Naphthalene	1.186	1.113	1.284	1.436	1.690	1.738	1.408	18.6
1,2,3-Trichlorobenzene	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.2
1,2-Dichloroethane-d4	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.3
Dibromofluoromethane	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.3
Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2
4-Bromofluorobenzene	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.8
N-amyl acetate	0.528	0.530	0.553	0.591	0.615	0.626	0.574	7.5
Methyl Iodide	0.573	0.619	0.604	0.629	0.651	0.628	0.617	4.3
Allyl chloride	0.620	0.607	0.558	0.555	0.575	0.557	0.579	4.8
trans-1,4-Dichloro-2-butene	0.185	0.174	0.170	0.177	0.181	0.181	0.178	2.9
Methacrylonitrile	0.076	0.086	0.104	0.092	0.082	0.084	0.087	11.2
Diisopropyl ether	1.282	1.292	1.316	1.290	1.300	1.248	1.288	1.8

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15

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

LAB FILE ID: RRF005 = VY021953.D RRF010 = VY021954.D RRF020 = VY021955.D
RRF050 = VY021956.D RRF100 = VY021957.D RRF150 = VY021958.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,4-Dioxane	1.839	2.045	2.213	2.031	2.084	2.067	2.047	5.9

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

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 2025
Response Via : Initial Calibration

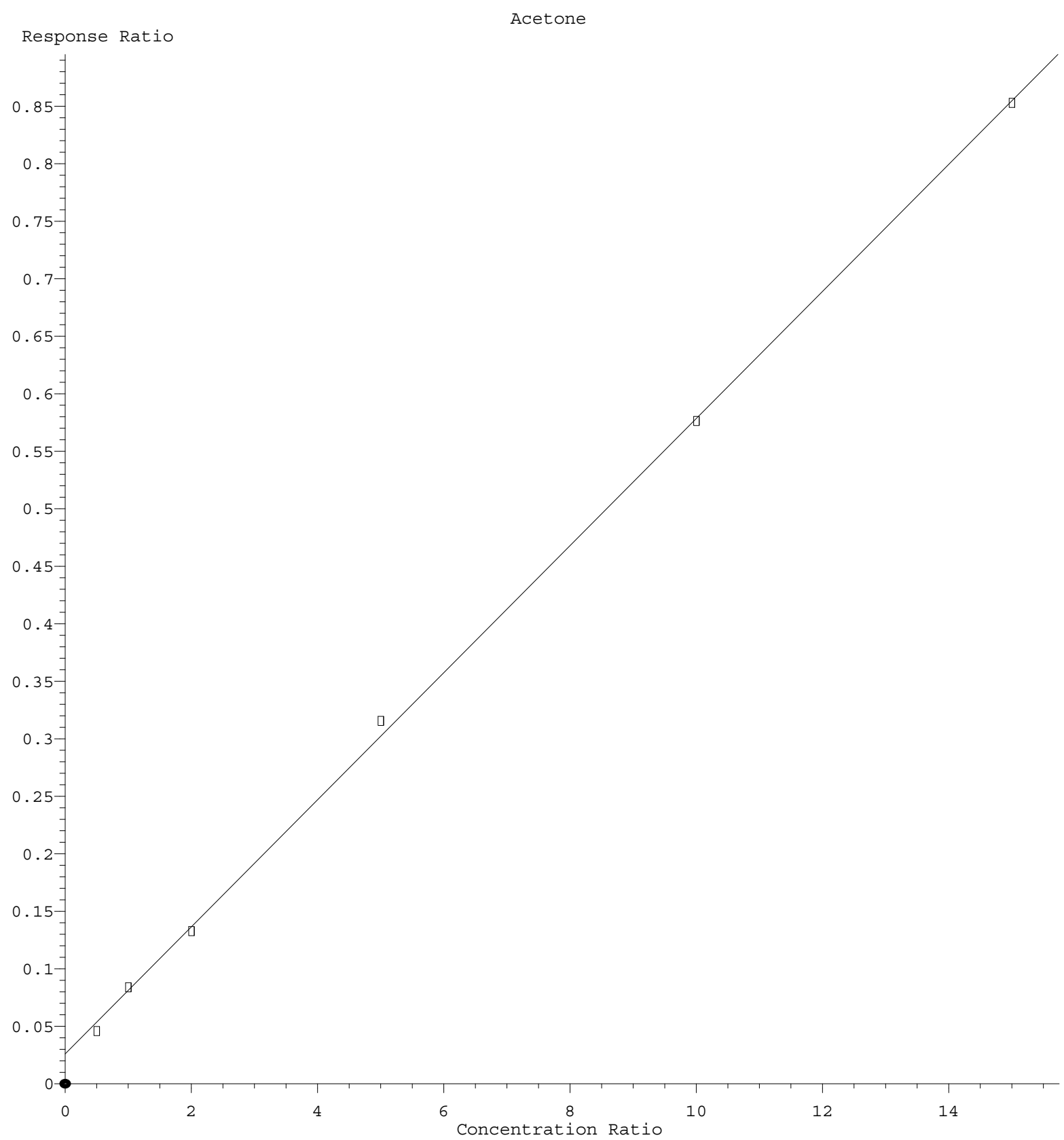
Calibration Files
5 =VY021953.D 10 =VY021954.D 20 =VY021955.D 50 =VY021956.D 100 =VY021957.D 150 =VY021958.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.66
3)	P	Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.24
4)	C	Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.14#
5)	T	Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.29
6)	T	Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.60
7)	T	Trichlorofluor...	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.87
8)	T	Diethyl Ether	0.283	0.266	0.253	0.247	0.246	0.240	0.256	6.23
9)	T	1,1,2-Trichlor...	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.83
10)	T	Methyl Iodide	0.573	0.619	0.604	0.629	0.651	0.628	0.617	4.33
11)	T	Tert butyl alc...	0.027	0.024	0.027	0.026	0.023	0.025	0.025	6.35
12)	CM	1,1-Dichloroet...	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5.05#
13)	T	Acrolein	0.053	0.045	0.051	0.042	0.040	0.042	0.046	11.55
14)	T	Allyl chloride	0.620	0.607	0.558	0.555	0.575	0.557	0.579	4.82
15)	T	Acrylonitrile	0.103	0.090	0.099	0.093	0.088	0.088	0.094	6.56
16)	T	Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.66
17)	T	Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.75
18)	T	Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.16
19)	T	Methyl tert-bu...	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.57
20)	T	Methylene Chlo...	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.72
21)	T	trans-1,2-Dich...	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.29
22)	T	Diisopropyl ether	1.282	1.292	1.316	1.290	1.300	1.248	1.288	1.78
23)	T	Vinyl Acetate	0.657	0.684	0.700	0.716	0.713	0.694	0.694	3.15
24)	P	1,1-Dichloroet...	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.89
25)	T	2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.53
26)	T	2,2-Dichloropr...	0.841	0.830	0.763	0.743	0.770	0.748	0.782	5.42
27)	T	cis-1,2-Dichlo...	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.08
28)	T	Bromochloromet...	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.18
29)	T	Tetrahydrofuran	0.067	0.065	0.072	0.073	0.066	0.067	0.068	4.92
30)	C	Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.17#
31)	T	Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.59
32)	T	1,1,1-Trichlor...	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.78
33)	S	1,2-Dichloroet...	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.29
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.34
36)	T	1,1-Dichloropr...	0.455	0.470	0.424	0.425	0.450	0.437	0.444	4.10
37)	T	Ethyl Acetate	0.166	0.161	0.163	0.161	0.153	0.151	0.159	3.67
38)	T	Carbon Tetrach...	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.90
39)	T	Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	5.95
40)	TM	Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.14
41)	T	Methacrylonitrile	0.076	0.086	0.104	0.092	0.082	0.084	0.087	11.20
42)	TM	1,2-Dichloroet...	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.27
43)	T	Isopropyl Acetate	0.301	0.293	0.314	0.312	0.309	0.308	0.306	2.52
44)	TM	Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.28
45)	C	1,2-Dichloropr...	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.36#
46)	T	Dibromomethane	0.202	0.193	0.192	0.187	0.191	0.187	0.192	2.95
47)	T	Bromodichlorom...	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.08
48)	T	Methyl methacr...	0.120	0.130	0.147	0.150	0.150	0.151	0.141	9.21
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.90
50)	S	Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2.04
51)	T	4-Methyl-2-Pen...	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.94
52)	CM	Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.35#
53)	T	t-1,3-Dichloro...	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.70
54)	T	cis-1,3-Dichlo...	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.32
55)	T	1,1,2-Trichlor...	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.82
56)	T	Ethyl methacry...	0.234	0.259	0.290	0.316	0.332	0.329	0.293	13.69

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y042225S.M

57)	T	1,3-Dichloropr...	0.413	0.420	0.405	0.409	0.417	0.404	0.411	1.58
58)	T	2-Chloroethyl ...	0.118	0.121	0.146	0.161	0.154	0.161	0.143	13.40
59)	T	2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.46
60)	T	Dibromochlorom...	0.345	0.355	0.354	0.352	0.367	0.357	0.355	1.96
61)	T	1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.27
62)	S	4-Bromofluorob...	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.77
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.64
65)	PM	Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.46
66)	T	1,1,1,2-Tetrac...	0.401	0.409	0.376	0.386	0.401	0.388	0.394	3.12
67)	C	Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.06#
68)	T	m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.28
69)	T	o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.32
70)	T	Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.16
71)	P	Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.48
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.24
74)	T	N-amyl acetate	0.528	0.530	0.553	0.591	0.615	0.626	0.574	7.48
75)	P	1,1,2,2-Tetrac...	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.42
76)	T	1,2,3-Trichlor...	0.498	0.445	0.418	0.405	0.408	0.397	0.428	8.83
77)	T	Bromobenzene	0.855	0.831	0.780	0.828	0.890	0.881	0.844	4.76
78)	T	n-propylbenzene	3.708	3.996	3.778	3.977	4.258	4.152	3.978	5.30
79)	T	2-Chlorotoluene	2.253	2.343	2.179	2.280	2.435	2.391	2.314	4.07
80)	T	1,3,5-Trimethy...	2.467	2.757	2.614	2.800	2.978	2.898	2.752	6.80
81)	T	trans-1,4-Dich...	0.185	0.174	0.170	0.177	0.181	0.181	0.178	2.93
82)	T	4-Chlorotoluene	2.313	2.501	2.270	2.380	2.521	2.445	2.405	4.23
83)	T	tert-Butylbenzene	2.246	2.382	2.263	2.494	2.725	2.701	2.468	8.48
84)	T	1,2,4-Trimethy...	2.415	2.717	2.631	2.784	3.027	2.945	2.753	8.01
85)	T	sec-Butylbenzene	3.254	3.724	3.409	3.602	3.898	3.786	3.612	6.72
86)	T	p-Isopropyltol...	2.717	3.016	2.869	3.094	3.386	3.321	3.067	8.39
87)	T	1,3-Dichlorobe...	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.53
88)	T	1,4-Dichlorobe...	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.73
89)	T	n-Butylbenzene	2.477	2.790	2.545	2.742	2.976	2.919	2.742	7.24
90)	T	Hexachloroethane	0.715	0.710	0.614	0.638	0.689	0.677	0.674	6.01
91)	T	1,2-Dichlorobe...	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.84
92)	T	1,2-Dibromo-3-...	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.90
93)	T	1,2,4-Trichlor...	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.11
94)	T	Hexachlorobuta...	0.522	0.545	0.483	0.480	0.555	0.544	0.521	6.28
95)	T	Naphthalene	1.186	1.113	1.284	1.436	1.690	1.738	1.408	18.56
96)	T	1,2,3-Trichlor...	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.25

(#) = Out of Range



Response = 5.529e-002 * Amt + 2.582e-002
Coef of Det (r^2) = 0.999482 Curve Fit: Linear
Method Name: Z:\corpsrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Calibration Table Last Updated: Wed Apr 23 02:30:30 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 23 02:07:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	280613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	462995	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	410723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	205526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	14719	5.679	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 11.360%#			
35) Dibromofluoromethane	7.634	113	15517	5.073	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 10.140%#			
50) Toluene-d8	10.109	98	56501	4.900	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 9.800%#			
62) 4-Bromofluorobenzene	12.407	95	18902	4.869	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 9.740%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	13157	5.503	ug/l	93
3) Chloromethane	2.068	50	19759	5.803	ug/l	92
4) Vinyl Chloride	2.202	62	23262	5.560	ug/l	98
5) Bromomethane	2.598	94	21956	6.091	ug/l	99
6) Chloroethane	2.732	64	16527	5.800	ug/l	90
7) Trichlorofluoromethane	3.055	101	29399	5.329	ug/l	93
8) Diethyl Ether	3.452	74	7949	5.536	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.818	101	16959	5.667	ug/l	97
10) Methyl Iodide	4.000	142	16072	4.638	ug/l	97
11) Tert butyl alcohol	4.866	59	3727m	26.192	ug/l	
12) 1,1-Dichloroethene	3.793	96	14742	5.285	ug/l	97
13) Acrolein	3.659	56	7419	29.049	ug/l	97
14) Allyl chloride	4.372	41	17385	5.352	ug/l	98
15) Acrylonitrile	5.055	53	14464	27.514	ug/l	97
16) Acetone	3.872	43	12844	18.039	ug/l #	83
17) Carbon Disulfide	4.104	76	48701	5.475	ug/l	98
18) Methyl Acetate	4.391	43	5994	4.951	ug/l	92
19) Methyl tert-butyl Ether	5.110	73	30819	4.936	ug/l	98
20) Methylene Chloride	4.610	84	21309	6.502	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	17357	5.556	ug/l	92
22) Diisopropyl ether	6.012	45	35963	4.975	ug/l	91
23) Vinyl Acetate	5.963	43	92152	23.655	ug/l	95
24) 1,1-Dichloroethane	5.915	63	27705	5.529	ug/l	98
25) 2-Butanone	6.896	43	15627	26.449	ug/l #	87
26) 2,2-Dichloropropane	6.890	77	23594	5.373	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	17569	5.029	ug/l	96
28) Bromochloromethane	7.244	49	10541	5.416	ug/l	98
29) Tetrahydrofuran	7.262	42	9424	24.559	ug/l	97
30) Chloroform	7.421	83	30418	5.473	ug/l	97
31) Cyclohexane	7.707	56	23446	5.472	ug/l #	77
32) 1,1,1-Trichloroethane	7.622	97	27271	5.424	ug/l	96
36) 1,1-Dichloropropene	7.829	75	21076	5.130	ug/l	96
37) Ethyl Acetate	6.982	43	7691m	5.283	ug/l	
38) Carbon Tetrachloride	7.811	117	25016	5.095	ug/l	97
39) Methylcyclohexane	9.109	83	24303	4.700	ug/l	97
40) Benzene	8.079	78	65878	5.129	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 23 02:07:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	3506m	4.345	ug/l		
42) 1,2-Dichloroethane	8.158	62	16046	5.046	ug/l		96
43) Isopropyl Acetate	8.195	43	13940	4.919	ug/l	#	86
44) Trichloroethene	8.865	130	18611	5.231	ug/l		96
45) 1,2-Dichloropropane	9.146	63	14827	5.220	ug/l		99
46) Dibromomethane	9.231	93	9367	5.268	ug/l		96
47) Bromodichloromethane	9.420	83	22170	4.991	ug/l	#	96
48) Methyl methacrylate	9.225	41	5570	4.252	ug/l		94
49) 1,4-Dioxane	9.231	88	1703	89.863	ug/l	#	90
51) 4-Methyl-2-Pentanone	9.999	43	33298	22.414	ug/l		98
52) Toluene	10.170	92	38784	4.665	ug/l		97
53) t-1,3-Dichloropropene	10.396	75	17712	4.649	ug/l	#	87
54) cis-1,3-Dichloropropene	9.853	75	21582	4.765	ug/l		92
55) 1,1,2-Trichloroethane	10.572	97	11582	4.877	ug/l		94
56) Ethyl methacrylate	10.444	69	10816	3.982	ug/l		96
57) 1,3-Dichloropropane	10.719	76	19113	5.020	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	27363	20.606	ug/l		100
59) 2-Hexanone	10.761	43	21558	22.001	ug/l		92
60) Dibromochloromethane	10.914	129	15992	4.863	ug/l		97
61) 1,2-Dibromoethane	11.017	107	11020	4.915	ug/l		98
64) Tetrachloroethene	10.646	164	20545	5.302	ug/l		91
65) Chlorobenzene	11.444	112	48805	5.314	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.517	131	16483	5.097	ug/l		98
67) Ethyl Benzene	11.517	91	69548	4.629	ug/l		97
68) m/p-Xylenes	11.627	106	54518	9.119	ug/l		100
69) o-Xylene	11.956	106	24611	4.466	ug/l		98
70) Styrene	11.969	104	39016	4.217	ug/l		97
71) Bromoform	12.133	173	9608	5.111	ug/l	#	98
73) Isopropylbenzene	12.255	105	62917	4.582	ug/l		97
74) N-amyl acetate	12.072	43	10843	4.596	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	12362	5.340	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	10228m	5.648	ug/l		
77) Bromobenzene	12.535	156	17570	5.064	ug/l		100
78) n-propylbenzene	12.596	91	76210	4.660	ug/l		100
79) 2-Chlorotoluene	12.682	91	46298	4.868	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	50699	4.481	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	3795	5.191	ug/l		98
82) 4-Chlorotoluene	12.779	91	47541	4.809	ug/l		98
83) tert-Butylbenzene	12.999	119	46171	4.550	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	49642	4.387	ug/l		99
85) sec-Butylbenzene	13.176	105	66872	4.504	ug/l		99
86) p-Isopropyltoluene	13.291	119	55850	4.430	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	35553	5.045	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	37426	5.362	ug/l		95
89) n-Butylbenzene	13.621	91	50918	4.518	ug/l		99
90) Hexachloroethane	13.883	117	14703	5.308	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	31298	5.092	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2000	5.430	ug/l		86
93) 1,2,4-Trichlorobenzene	14.919	180	15346	4.406	ug/l		94
94) Hexachlorobutadiene	15.023	225	10723	5.004	ug/l		98
95) Naphthalene	15.145	128	24368	4.212	ug/l		97
96) 1,2,3-Trichlorobenzene	15.328	180	13785	4.585	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

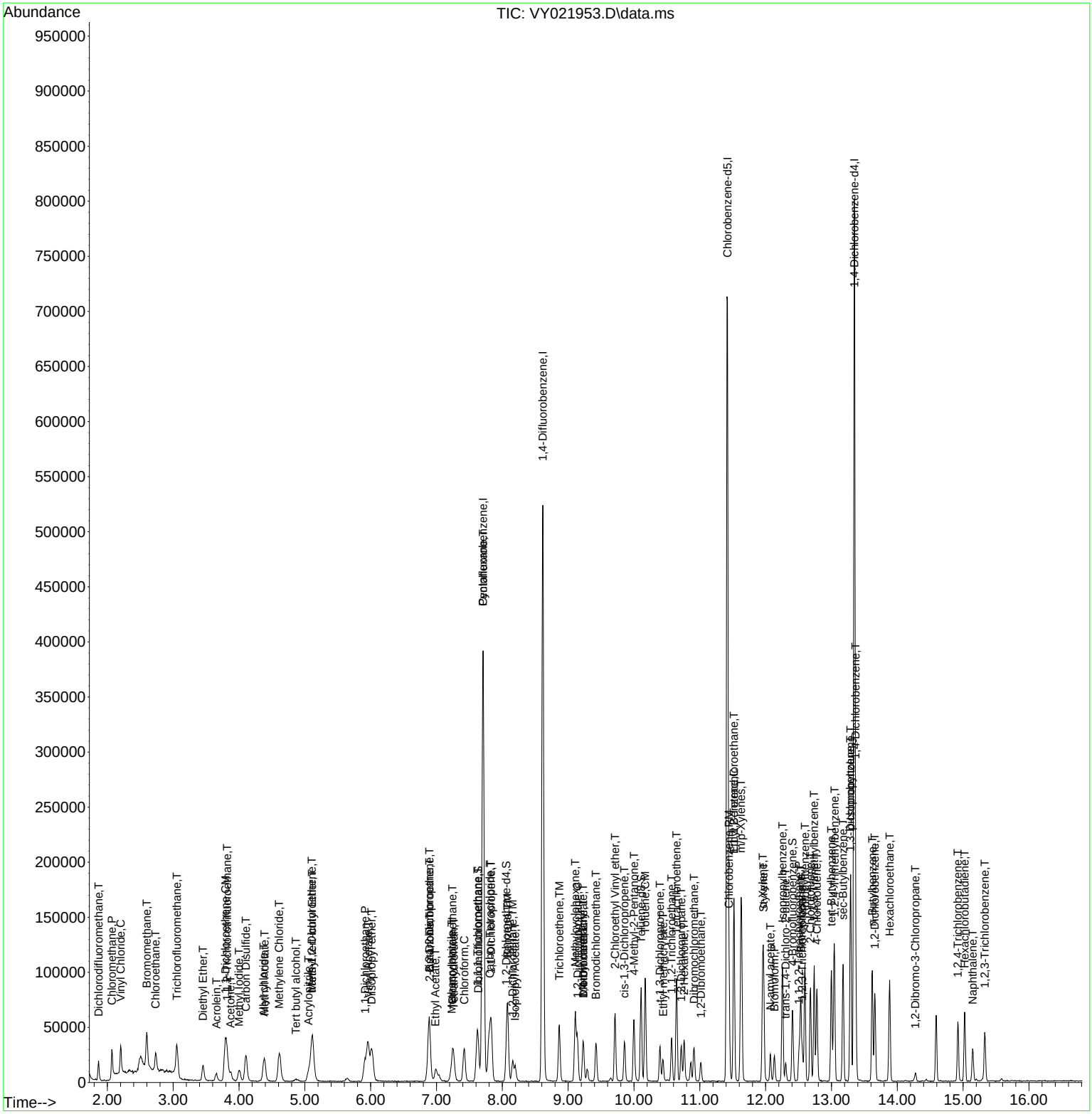
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

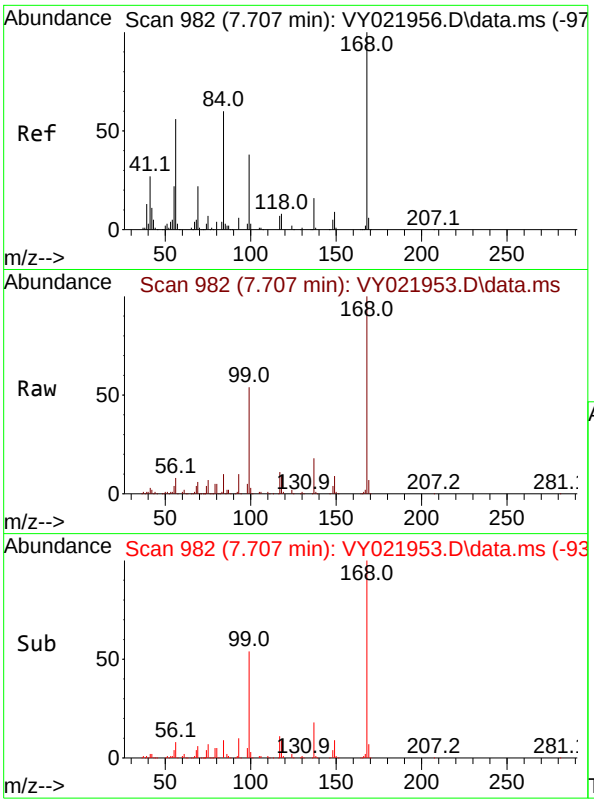
Quant Time: Apr 23 02:07:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

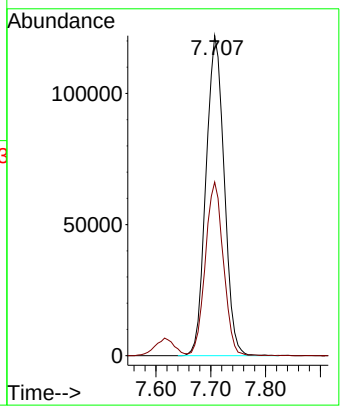




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:168 Resp: 28061

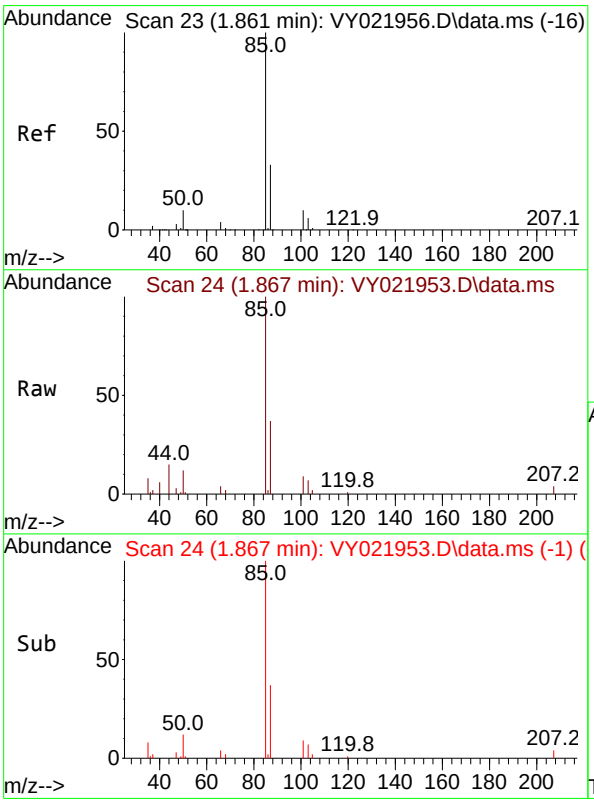
Ion	Ratio	Lower	Upper
168	100		
99	54.2	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

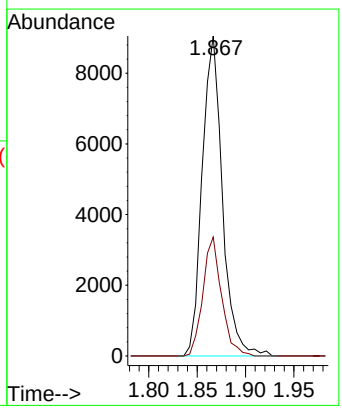
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

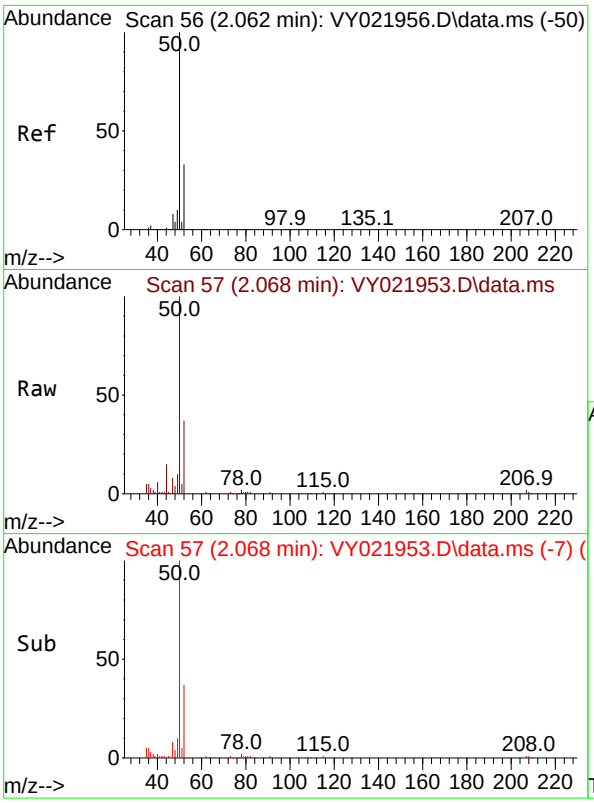


#2
Dichlorodifluoromethane
Concen: 5.503 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 85 Resp: 13157

Ion	Ratio	Lower	Upper
85	100		
87	37.1	16.6	49.7

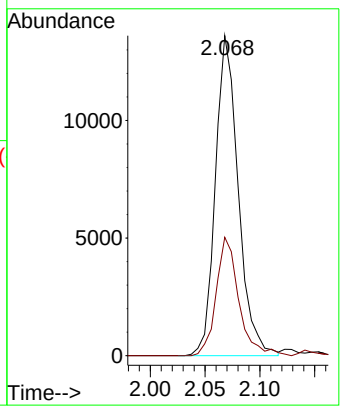




#3
Chloromethane
Concen: 5.803 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 50 Resp: 1975

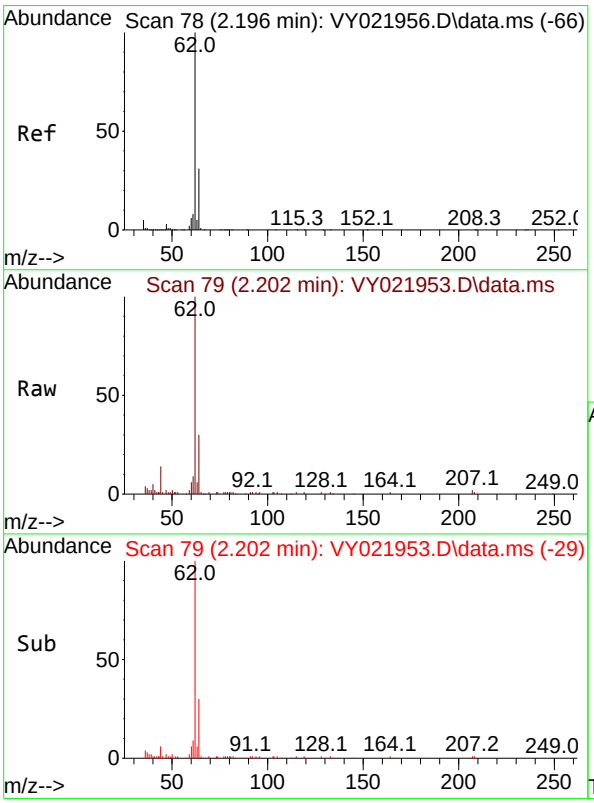
Ion	Ratio	Lower	Upper
50	100		
52	37.0	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

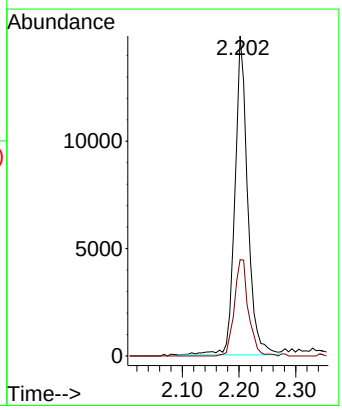
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

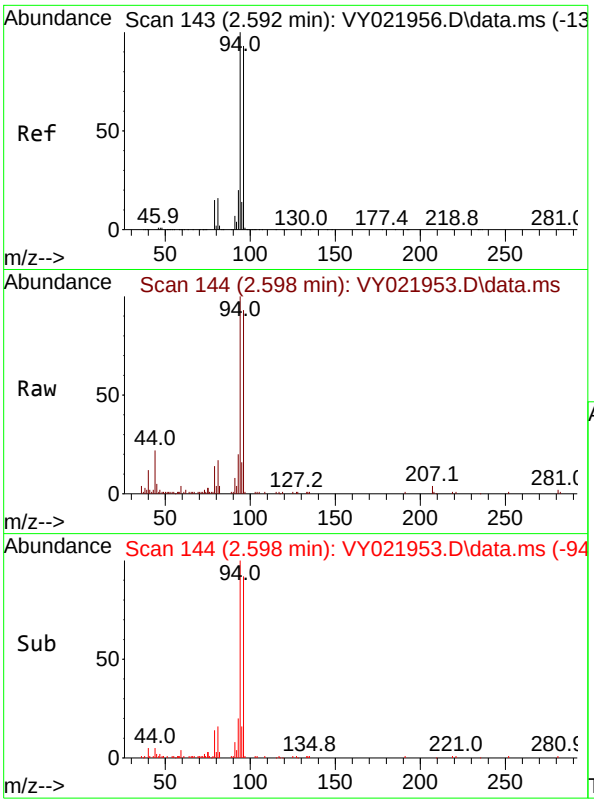


#4
Vinyl Chloride
Concen: 5.560 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 62 Resp: 23262

Ion	Ratio	Lower	Upper
62	100		
64	30.2	25.1	37.7

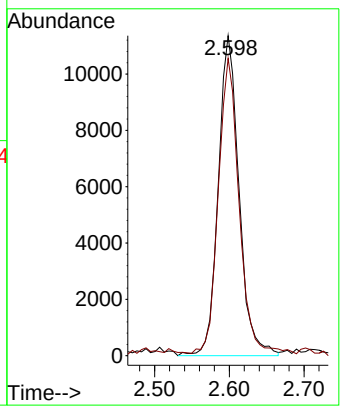




#5
Bromomethane
Concen: 6.091 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 94 Resp: 2195(

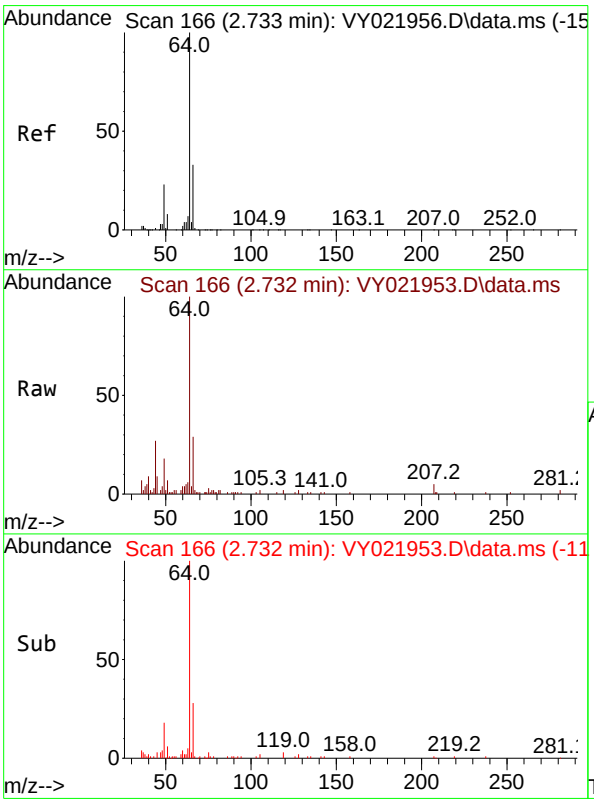
Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

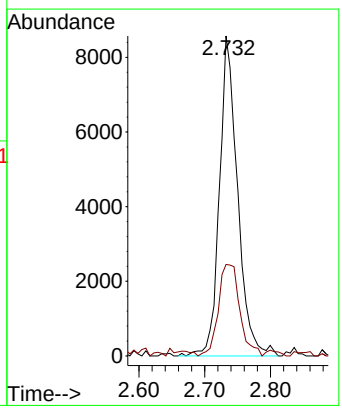
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

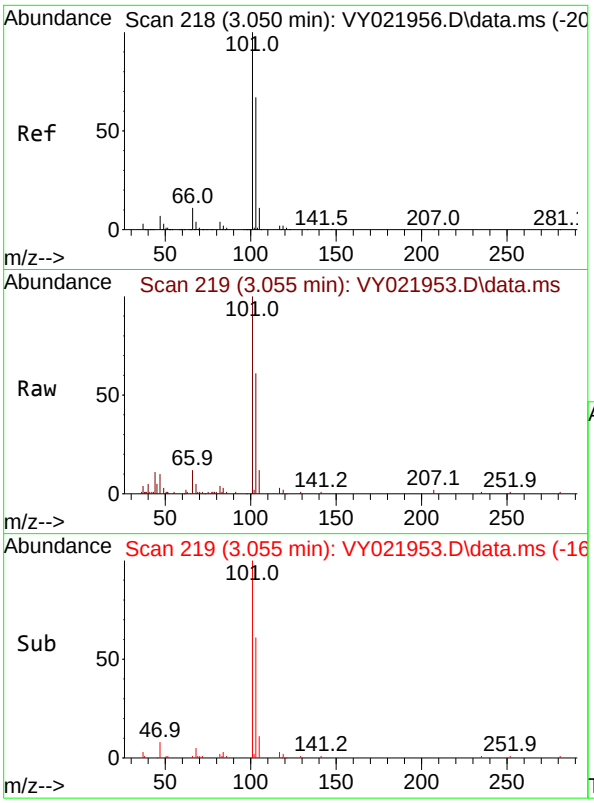


#6
Chloroethane
Concen: 5.800 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 64 Resp: 16527

Ion	Ratio	Lower	Upper
64	100		
66	27.3	26.2	39.4

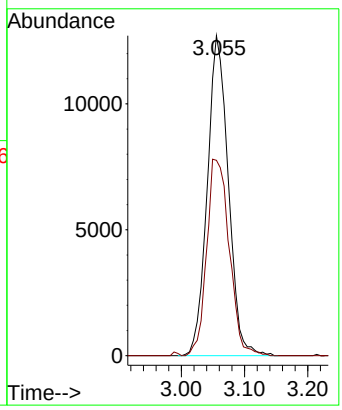




#7
Trichlorofluoromethane
Concen: 5.329 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:101 Resp: 2939

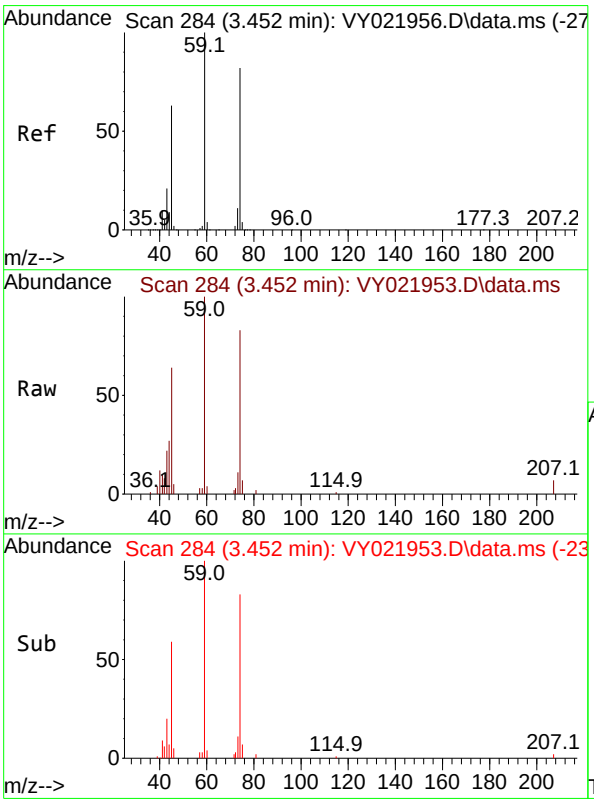
Ion	Ratio	Lower	Upper
101	100		
103	61.1	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

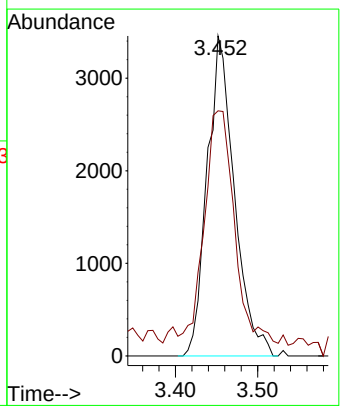
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

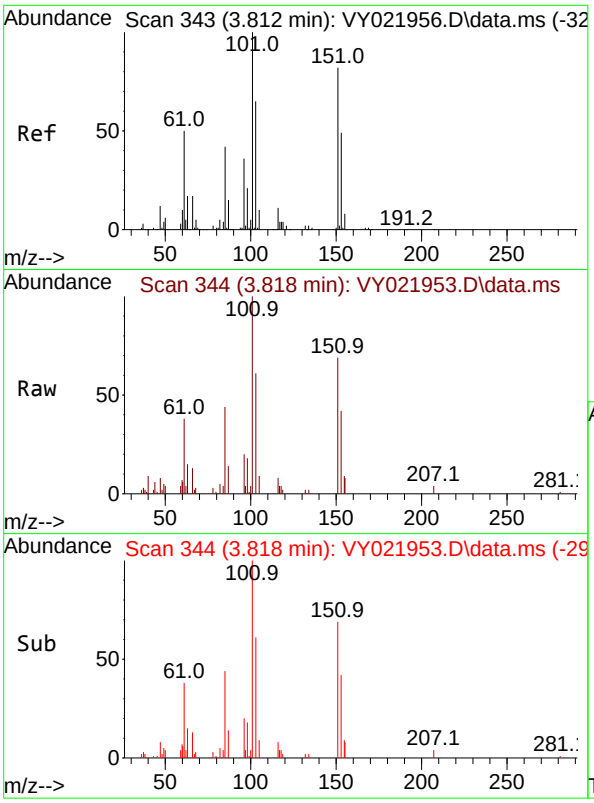


#8
Diethyl Ether
Concen: 5.536 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 74 Resp: 7949

Ion	Ratio	Lower	Upper
74	100		
45	83.9	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.667 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

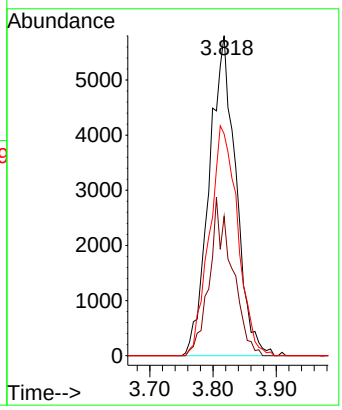
Tgt Ion:101 Resp: 1695

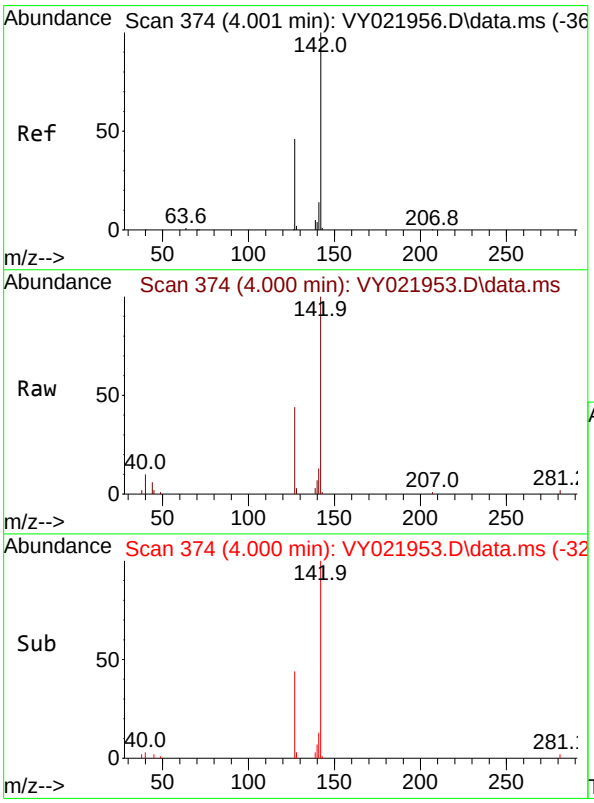
Ion	Ratio	Lower	Upper
101	100		
85	42.3	34.6	51.8
151	75.9	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

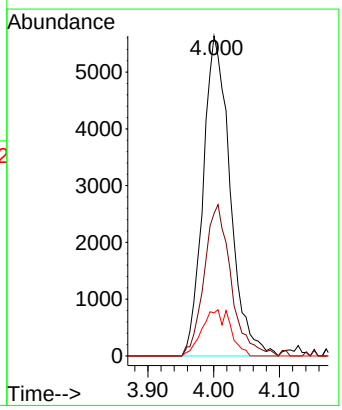


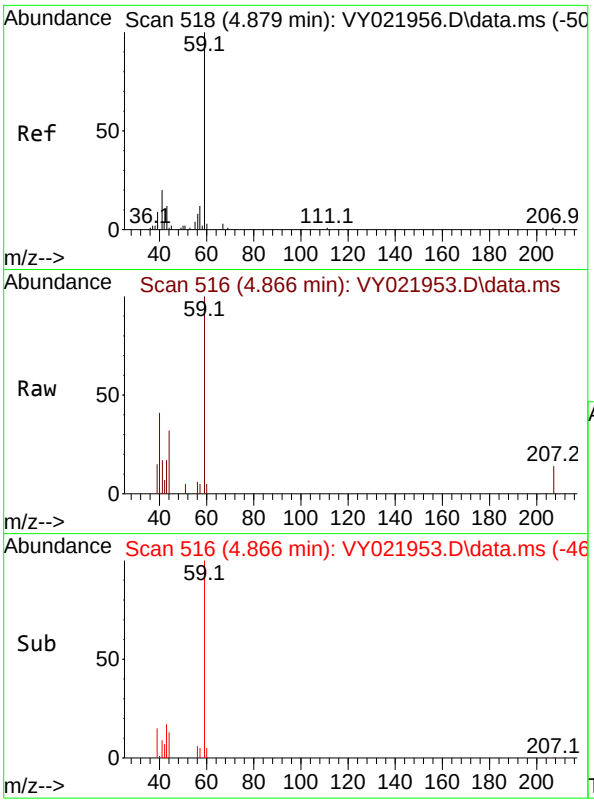


#10
Methyl Iodide
Concen: 4.638 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:142 Resp: 16072

Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.2	54.2
141	15.3	11.7	17.5

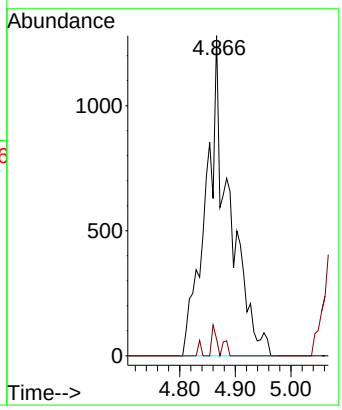




#11
Tert butyl alcohol
Concen: 26.192 ug/l m
RT: 4.866 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 59 Resp: 372

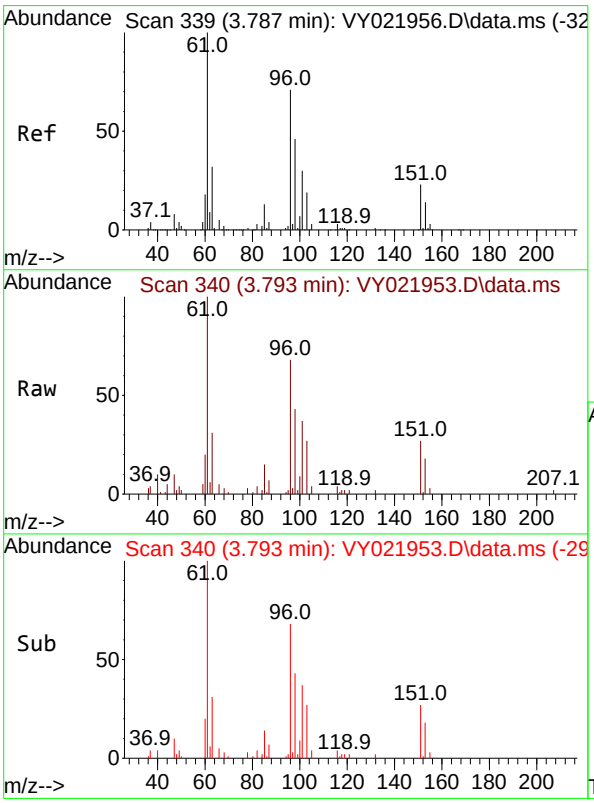
Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.3	13.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

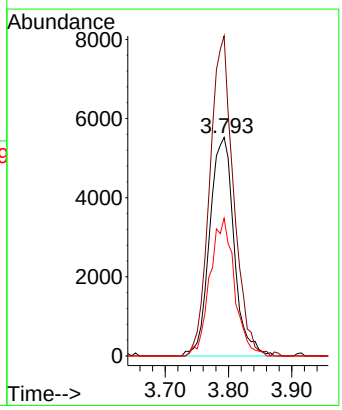
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

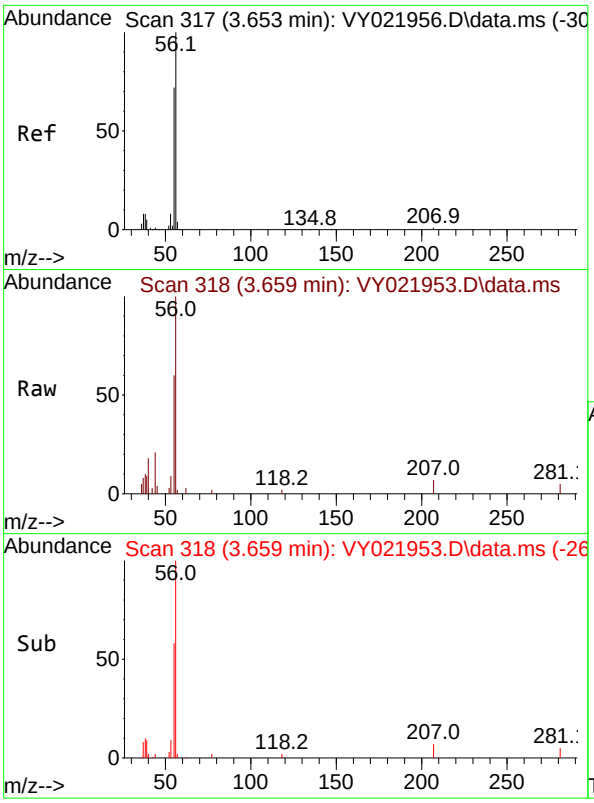


#12
1,1-Dichloroethene
Concen: 5.285 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 96 Resp: 14742

Ion	Ratio	Lower	Upper
96	100		
61	146.4	113.0	169.4
98	63.0	51.4	77.2

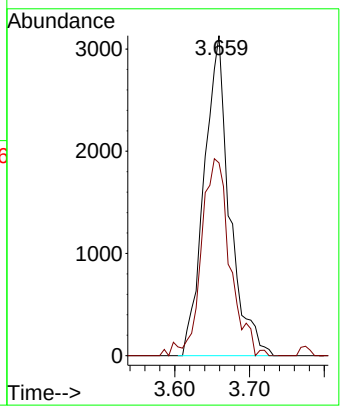




#13
Acrolein
Concen: 29.049 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 56 Resp: 741

Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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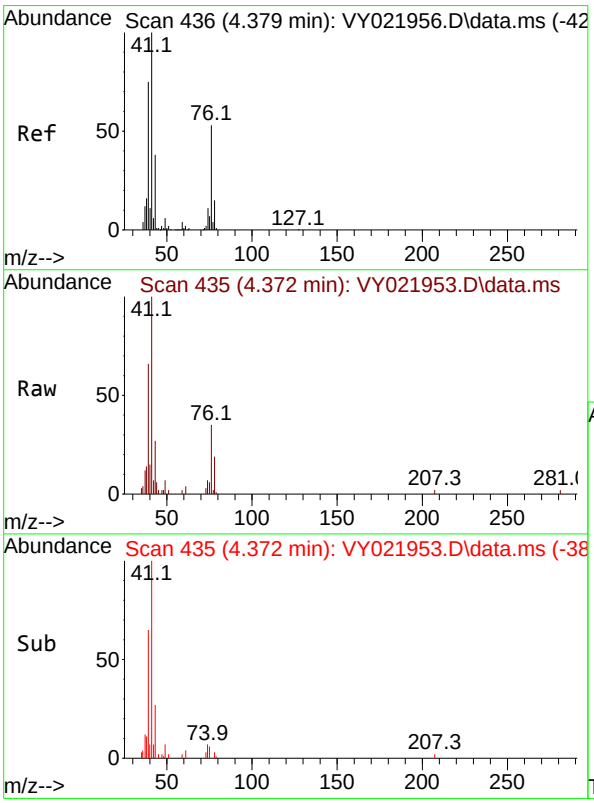
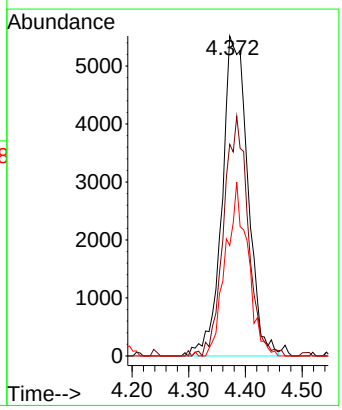
Supervised By :Mahesh Dadoda 04/23/2025

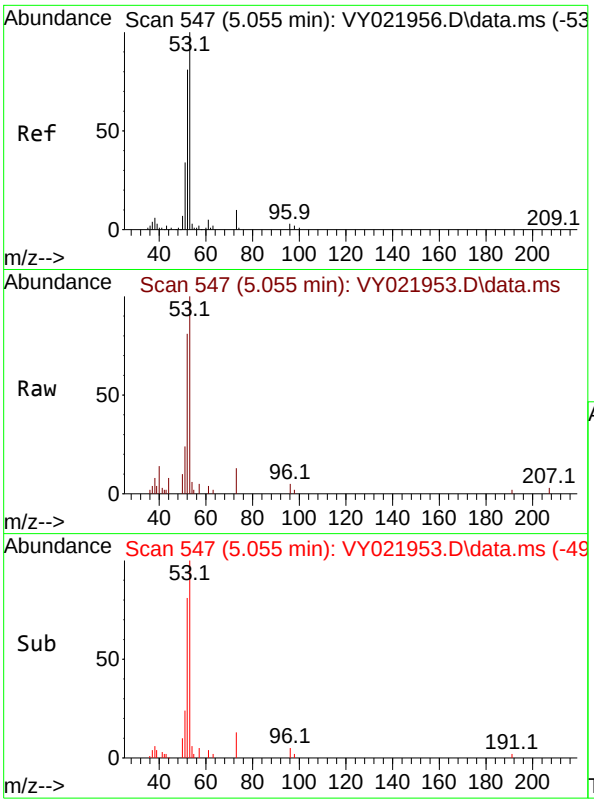


#14
Allyl chloride
Concen: 5.352 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 41 Resp: 17385

Ion	Ratio	Lower	Upper
41	100		
39	71.1	57.2	85.8
76	46.9	39.7	59.5





#15
Acrylonitrile
Concen: 27.514 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 53 Resp: 1446

Ion	Ratio	Lower	Upper
53	100		
52	77.8	65.0	97.6
51	36.6	28.9	43.3

Instrument :
MSVOA_Y
ClientSampleId :
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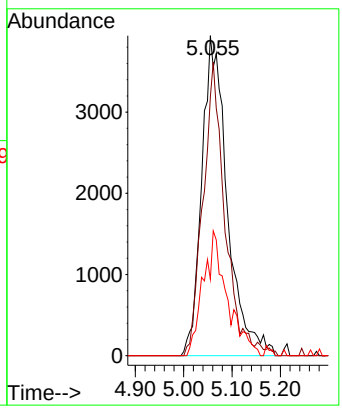
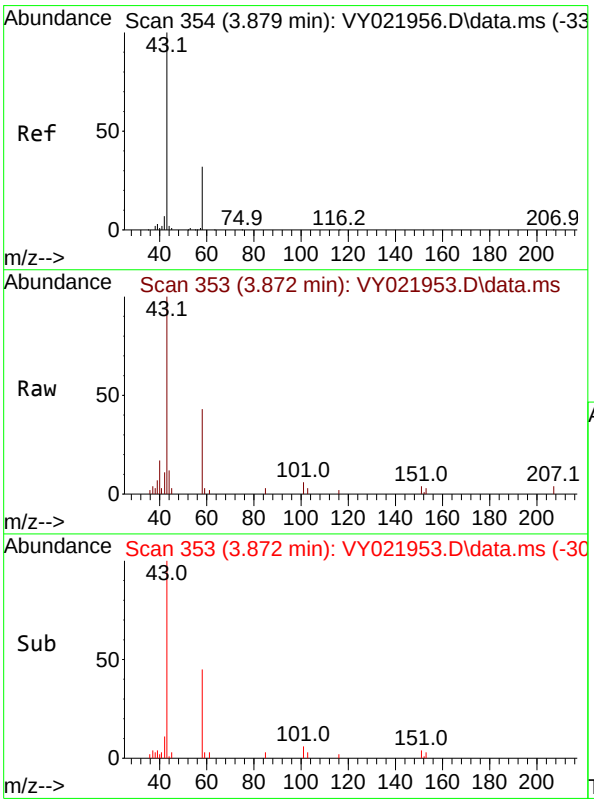
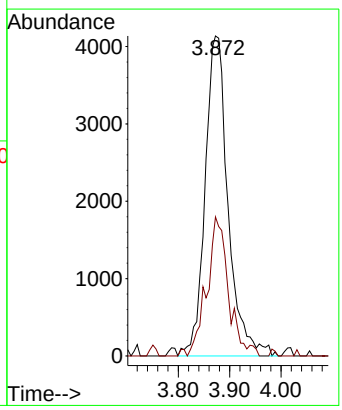


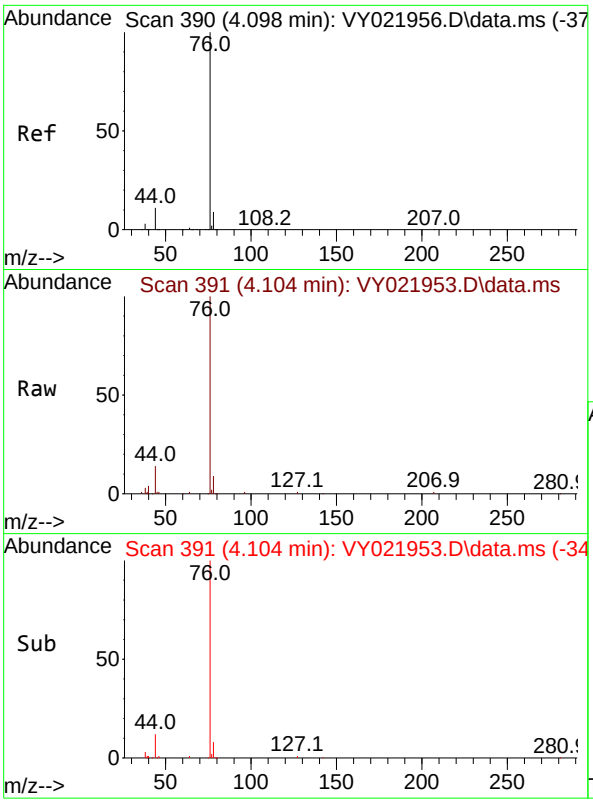


#16
Acetone
Concen: 18.039 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.007 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 12844

Ion	Ratio	Lower	Upper
43	100		
58	43.5	27.0	40.4#





#17
Carbon Disulfide
Concen: 5.475 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 76 Resp: 4870

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.6	11.4

Instrument :
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ClientSampleId :
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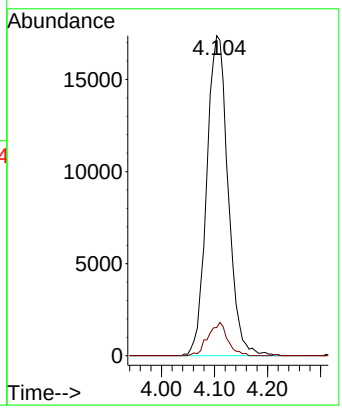
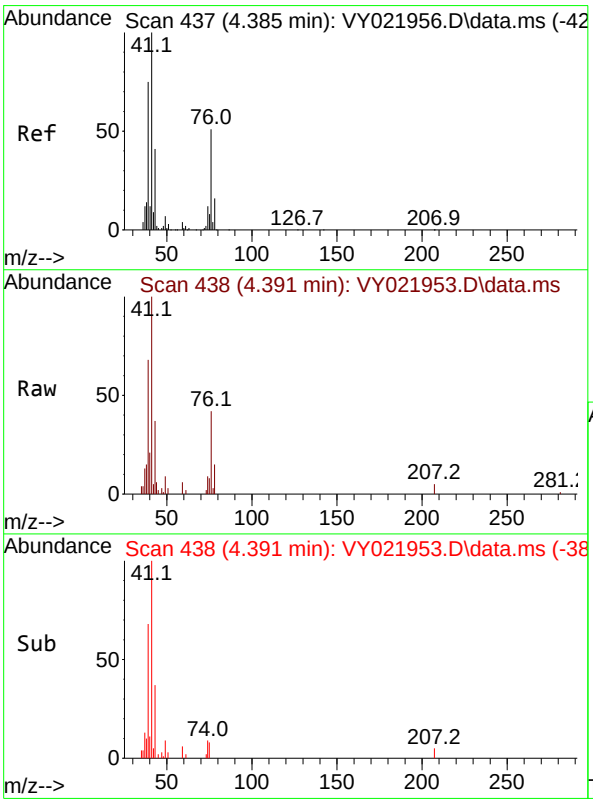
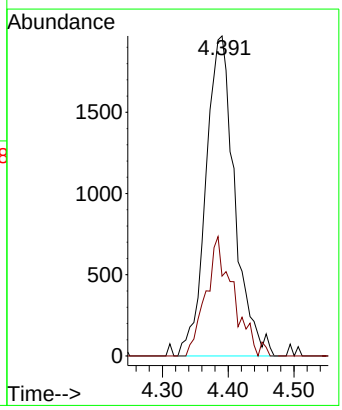


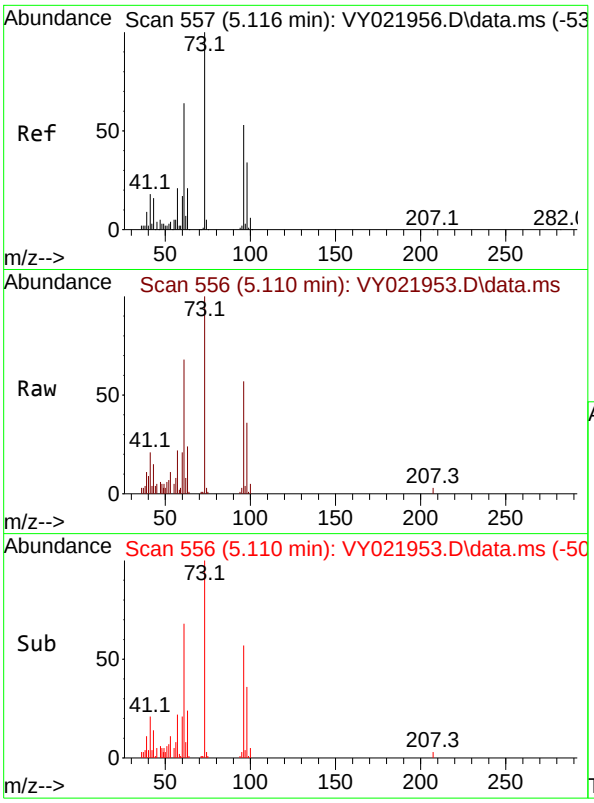


#18
Methyl Acetate
Concen: 4.951 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 5994

Ion	Ratio	Lower	Upper
43	100		
74	34.8	24.2	36.4

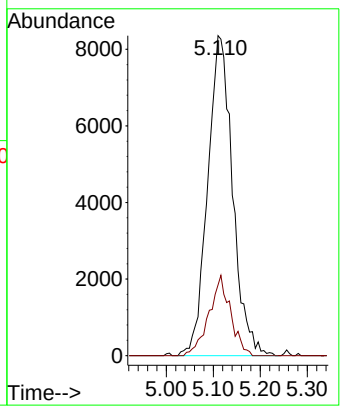




#19
Methyl tert-butyl Ether
Concen: 4.936 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 73 Resp: 3081

Ion	Ratio	Lower	Upper
73	100		
57	22.1	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
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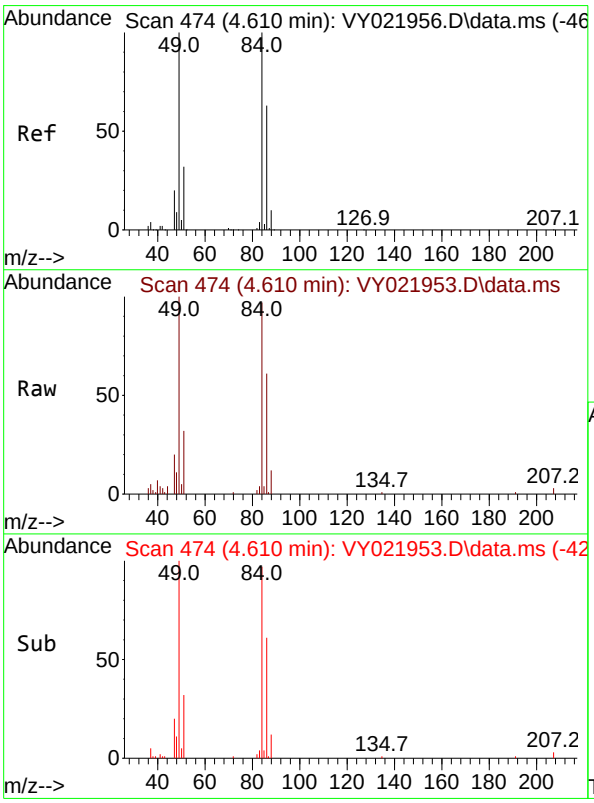
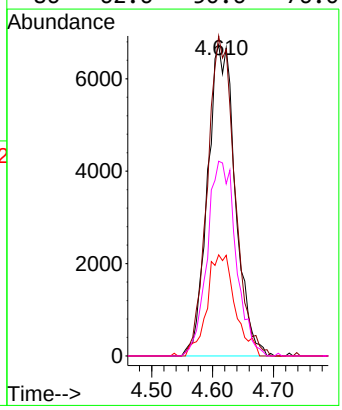
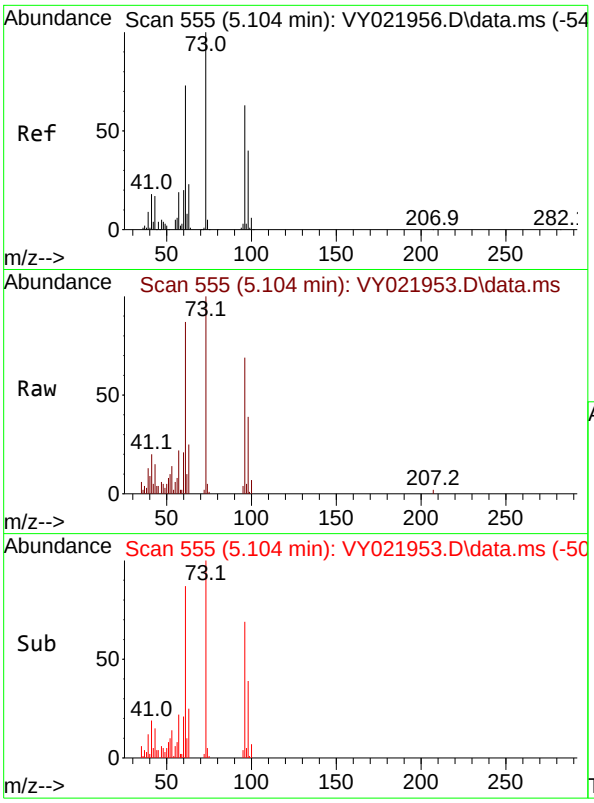


#20
Methylene Chloride
Concen: 6.502 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 84 Resp: 21309

Ion	Ratio	Lower	Upper
84	100		
49	102.8	79.9	119.9
51	32.5	25.4	38.0
86	62.6	50.6	76.0

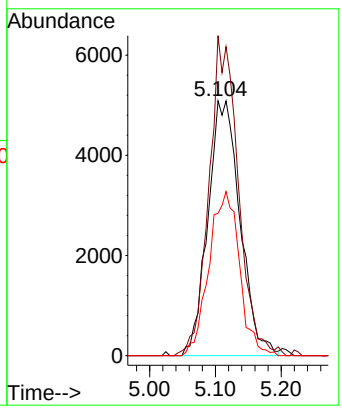




#21
trans-1,2-Dichloroethene
Concen: 5.556 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 96 Resp: 1735

Ion	Ratio	Lower	Upper
96	100		
61	124.5	92.6	138.8
98	55.8	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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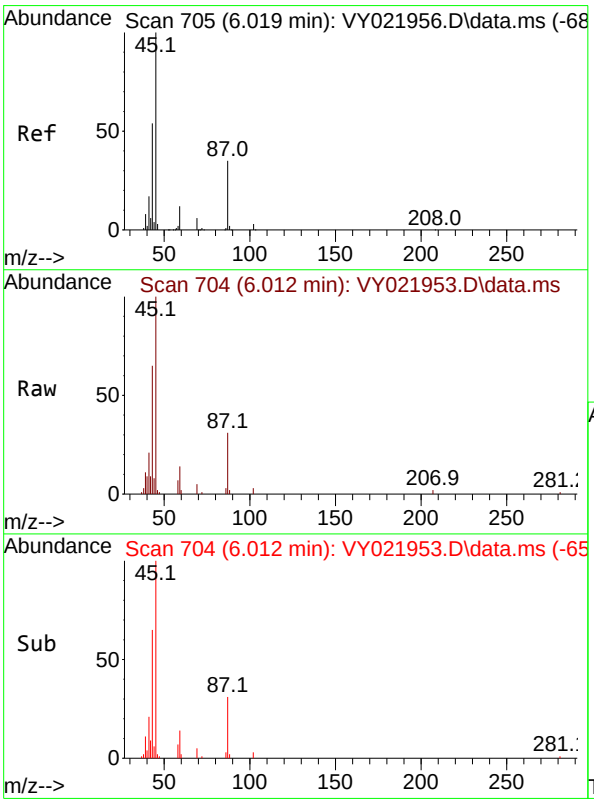
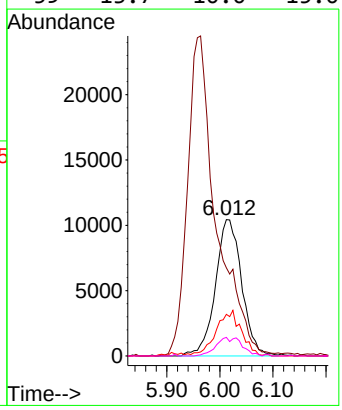
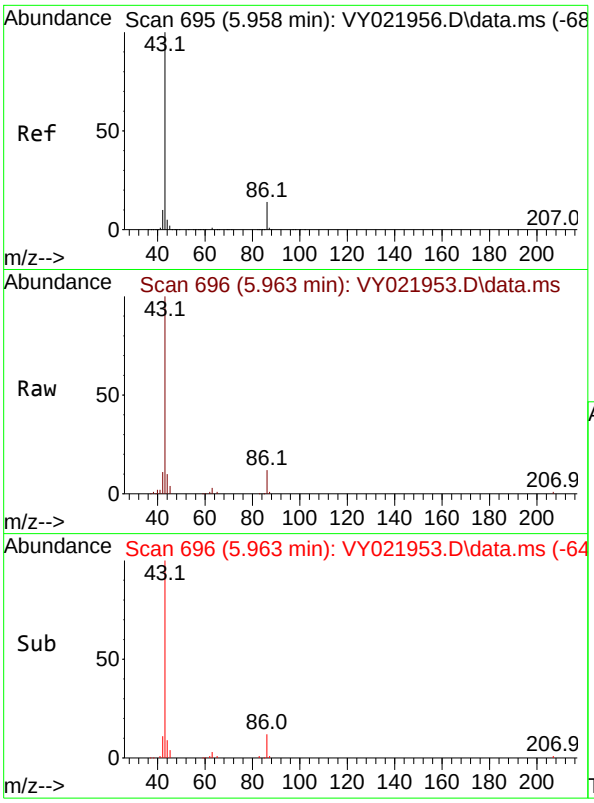


#22
Diisopropyl ether
Concen: 4.975 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 45 Resp: 35963

Ion	Ratio	Lower	Upper
45	100		
43	62.5	43.6	65.4
87	30.5	28.2	42.4
59	13.7	10.0	15.0





#23
Vinyl Acetate
Concen: 23.655 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 9215

Ion	Ratio	Lower	Upper
43	100		
86	11.9	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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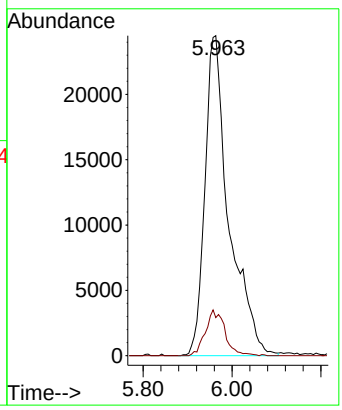
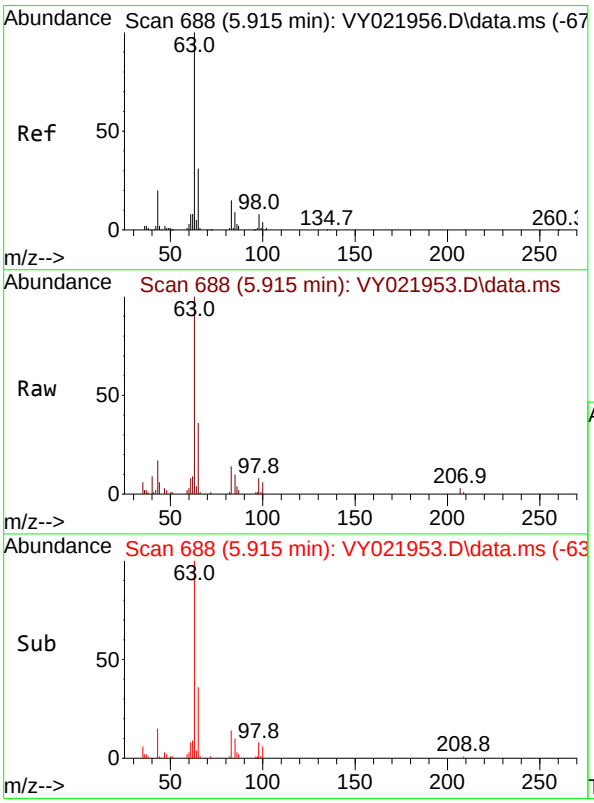
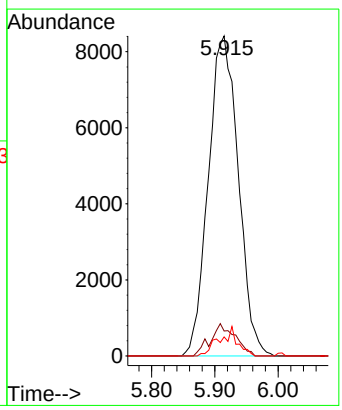


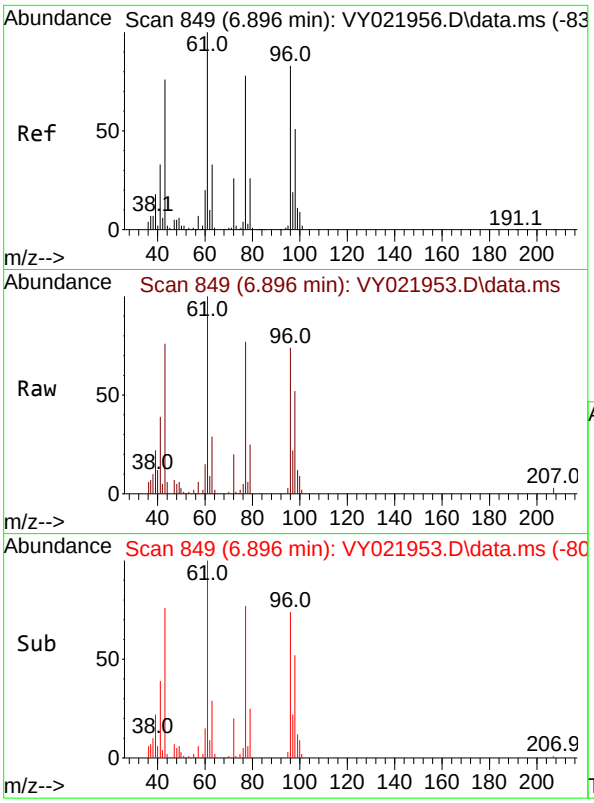


#24
1,1-Dichloroethane
Concen: 5.529 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 63 Resp: 27705

Ion	Ratio	Lower	Upper
63	100		
98	7.8	4.0	11.9
100	5.9	2.0	6.0





#25
2-Butanone
Concen: 26.449 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 1562

Ion	Ratio	Lower	Upper
43	100		
72	26.2	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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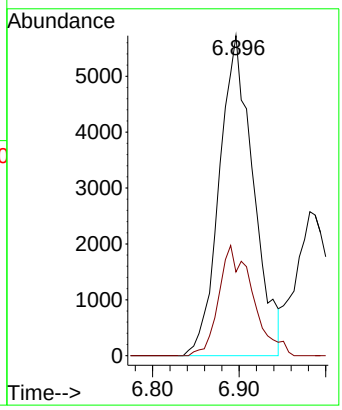
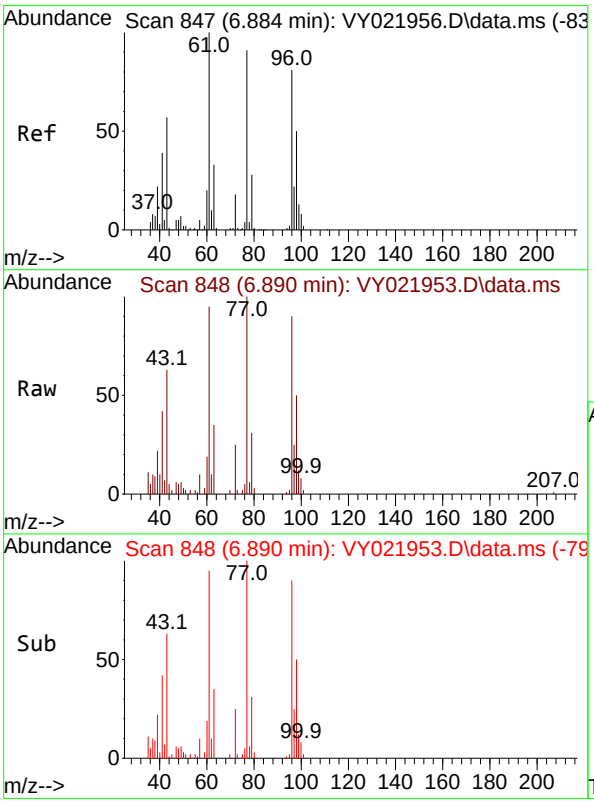
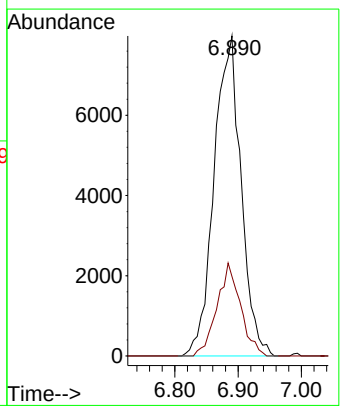


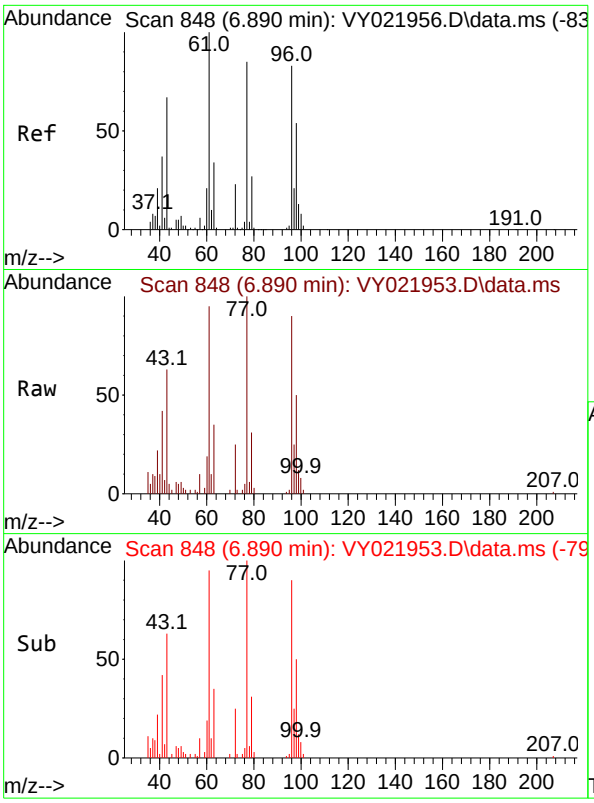


#26
2,2-Dichloropropane
Concen: 5.373 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 77 Resp: 23594

Ion	Ratio	Lower	Upper
77	100		
97	25.3	12.4	37.4

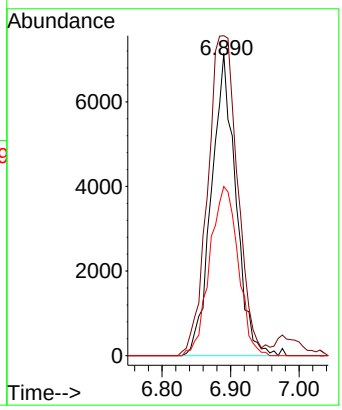




#27
cis-1,2-Dichloroethene
Concen: 5.029 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 96 Resp: 1756

Ion	Ratio	Lower	Upper
96	100		
61	131.1	0.0	251.4
98	65.6	0.0	128.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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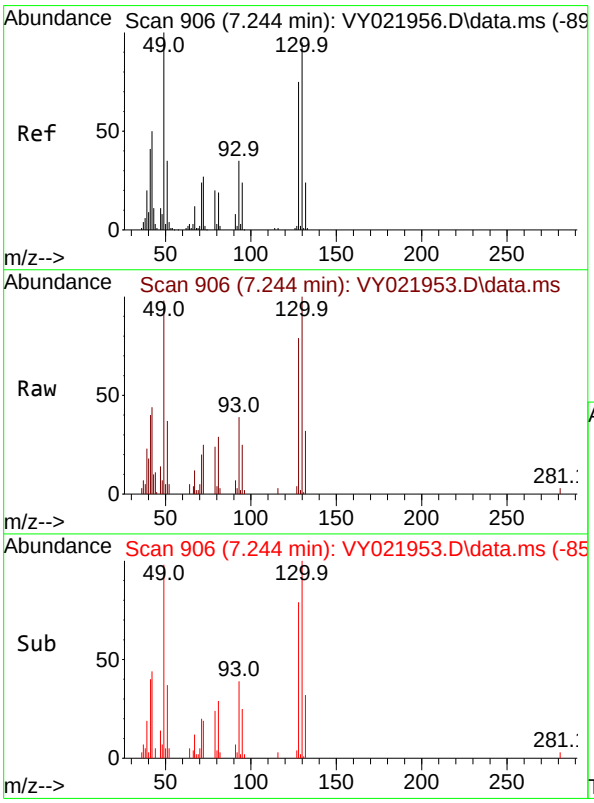
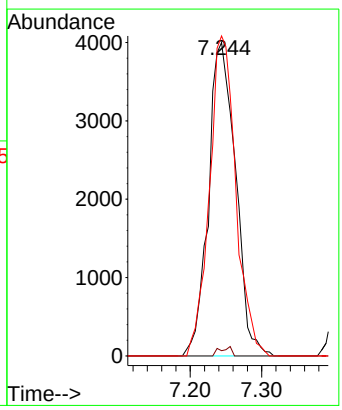
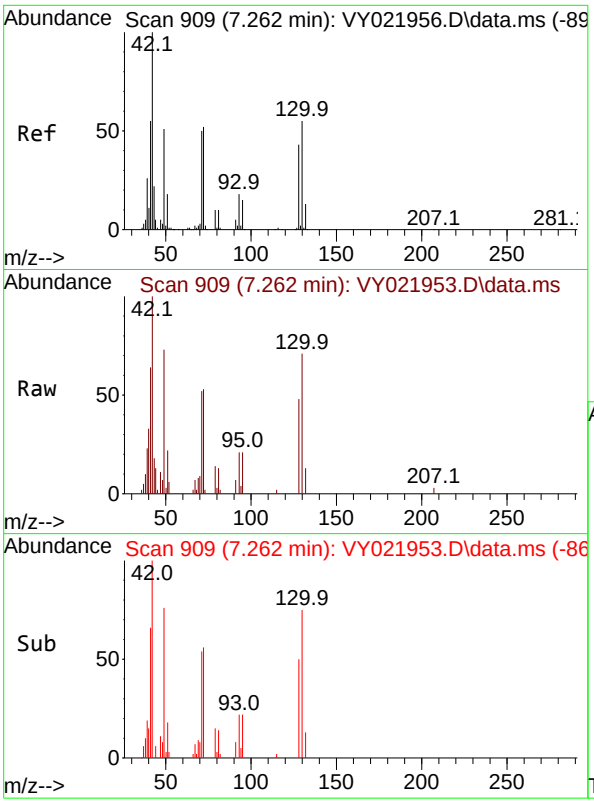


#28
Bromochloromethane
Concen: 5.416 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 49 Resp: 10541

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	5.0
130	99.5	78.2	117.4

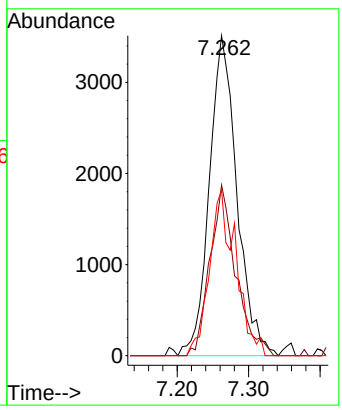




#29
Tetrahydrofuran
Concen: 24.559 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 42 Resp: 942

Ion	Ratio	Lower	Upper
42	100		
72	50.4	42.6	63.8
71	49.4	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
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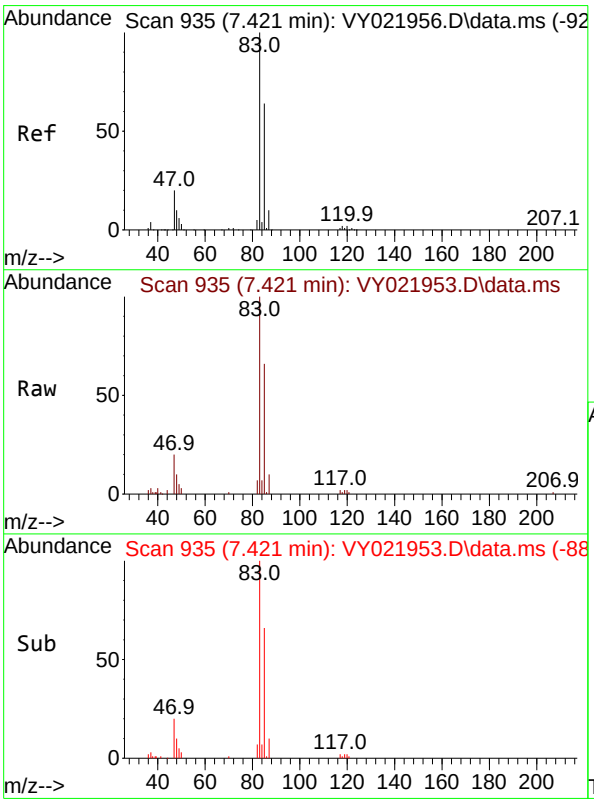
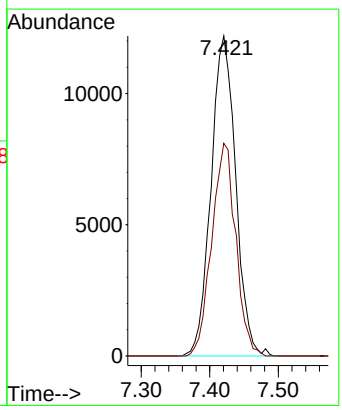
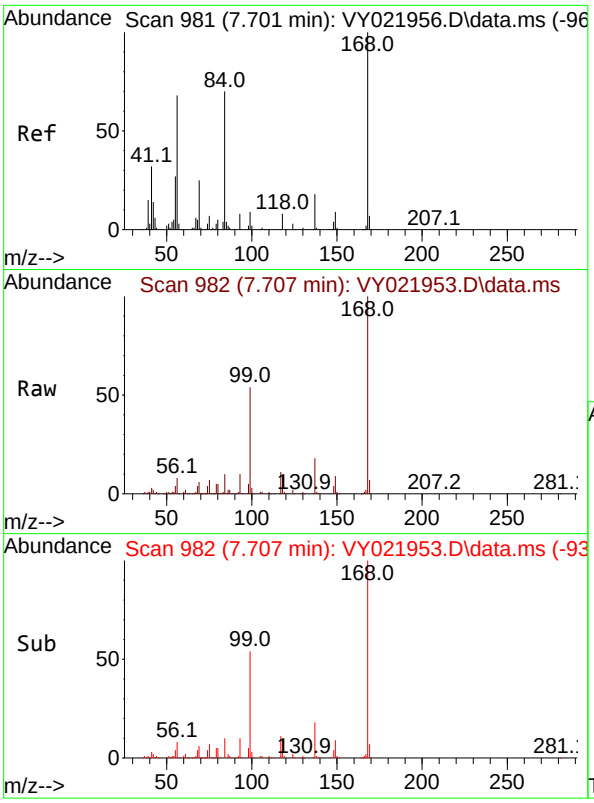


#30
Chloroform
Concen: 5.473 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 83 Resp: 30418

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.3	76.9

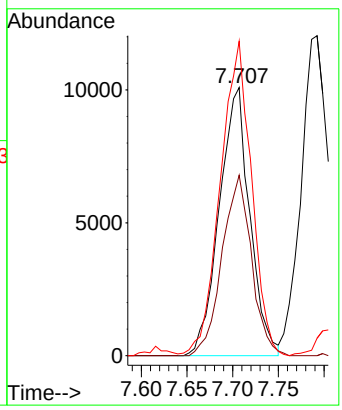




#31
Cyclohexane
Concen: 5.472 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 56 Resp: 2344

Ion	Ratio	Lower	Upper
56	100		
69	67.3	29.4	44.2
84	116.5	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
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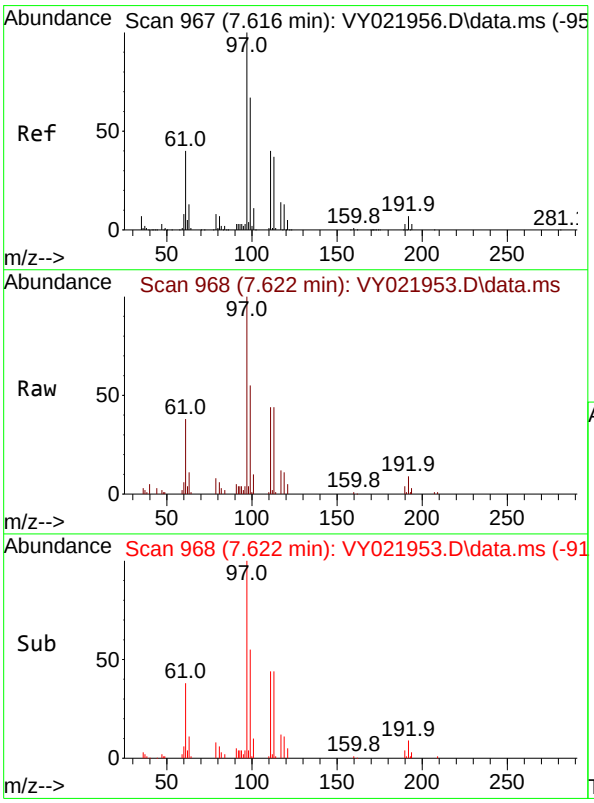
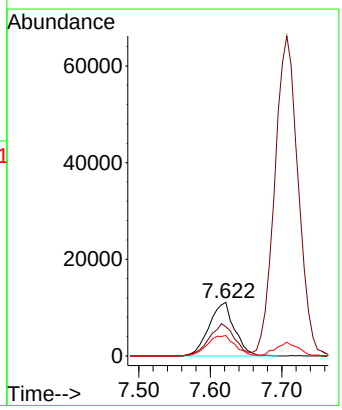
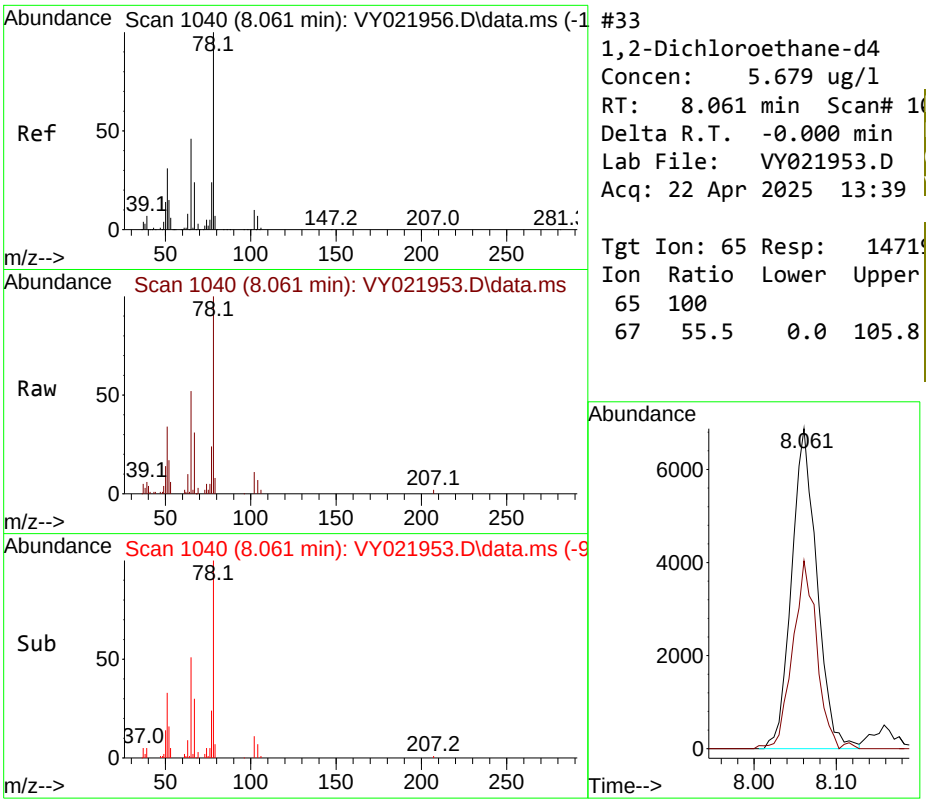


#32
1,1,1-Trichloroethane
Concen: 5.424 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 97 Resp: 27271

Ion	Ratio	Lower	Upper
97	100		
99	61.0	51.4	77.2
61	41.6	31.4	47.2





#33
1,2-Dichloroethane-d4
Concen: 5.679 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 65 Resp: 1471

Ion	Ratio	Lower	Upper
65	100		
67	55.5	0.0	105.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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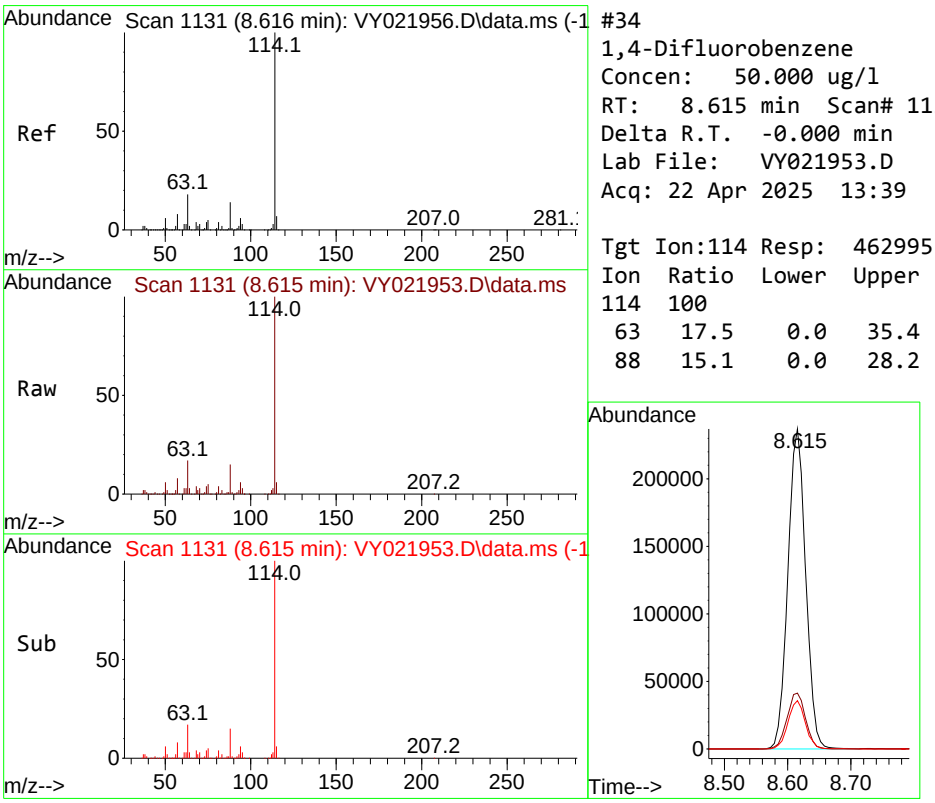
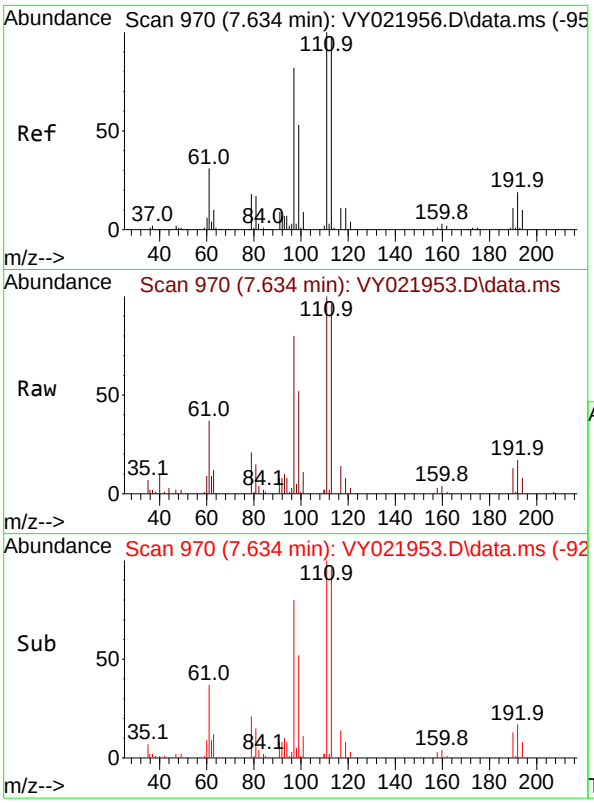
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:114 Resp: 462995

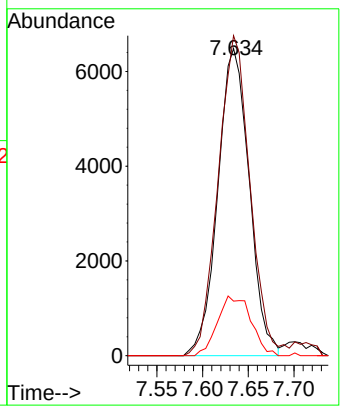
Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.4
88	15.1	0.0	28.2



#35
Dibromofluoromethane
Concen: 5.073 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:113 Resp: 1551

Ion	Ratio	Lower	Upper
113	100		
111	105.8	81.8	122.8
192	20.6	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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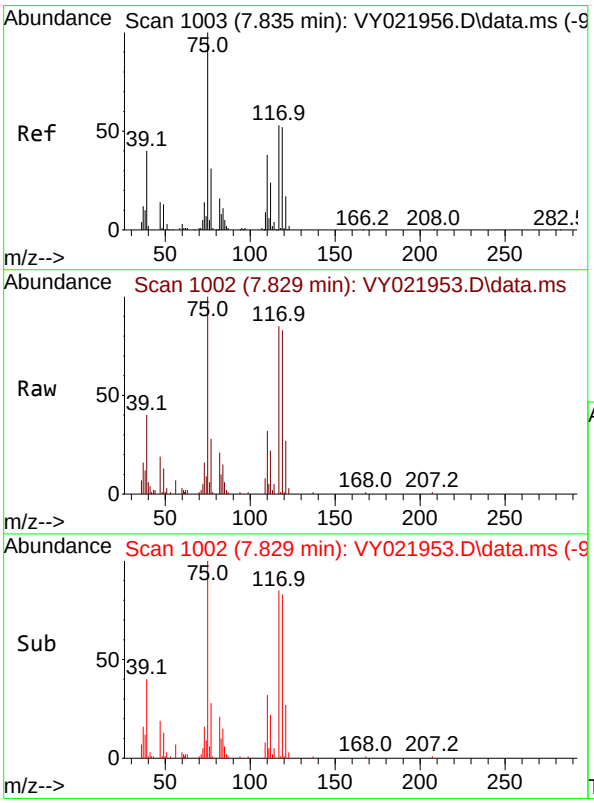
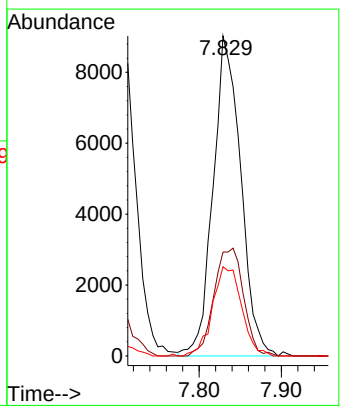
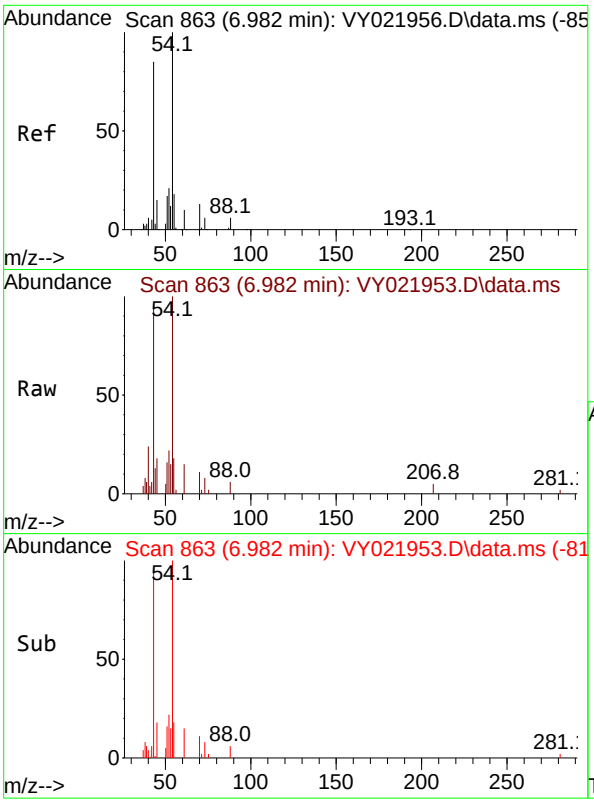


#36
1,1-Dichloropropene
Concen: 5.130 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 75 Resp: 21076

Ion	Ratio	Lower	Upper
75	100		
110	36.0	19.1	57.3
77	29.4	25.5	38.3

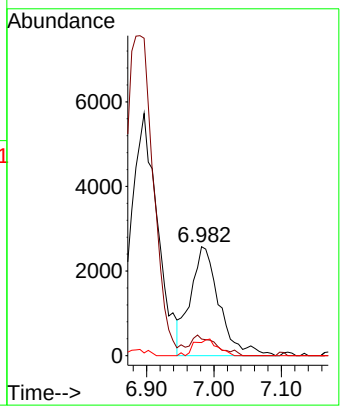




#37
Ethyl Acetate
Concen: 5.283 ug/l m
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 769

Ion	Ratio	Lower	Upper
43	100		
61	15.8	13.8	20.6
70	12.3	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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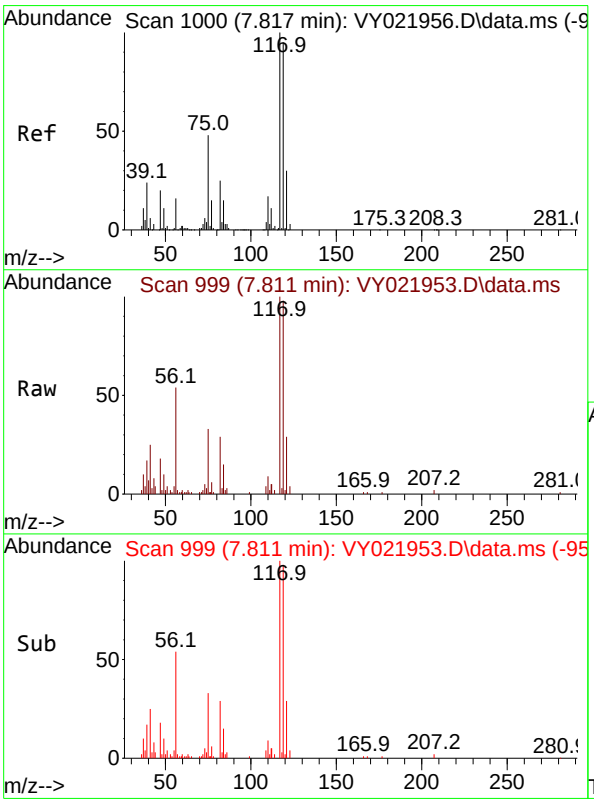
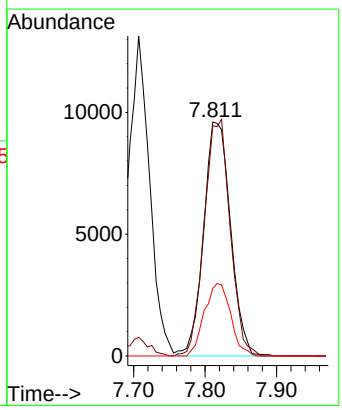
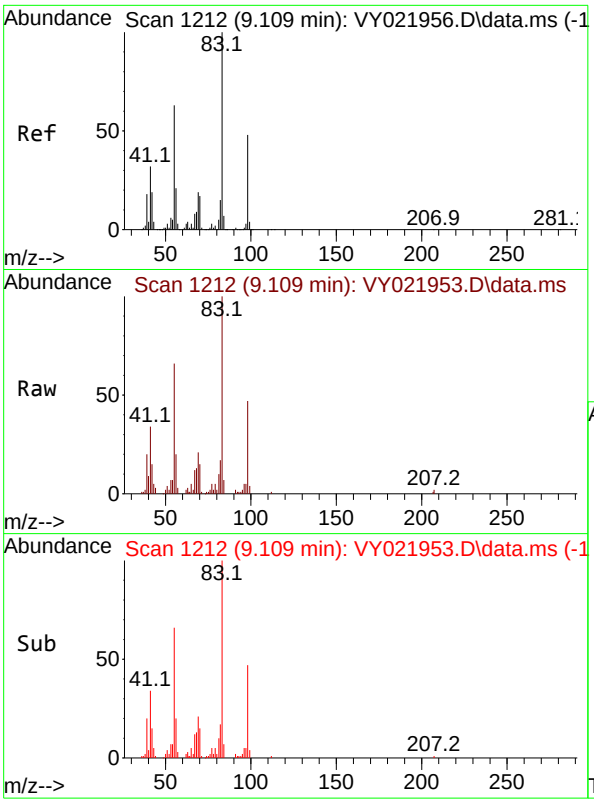


#38
Carbon Tetrachloride
Concen: 5.095 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:117 Resp: 25016

Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.2	114.4
121	28.9	24.0	36.0





#39
Methylcyclohexane
Concen: 4.700 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 83 Resp: 2430

Ion	Ratio	Lower	Upper
83	100		
55	65.8	50.6	75.8
98	47.2	38.6	58.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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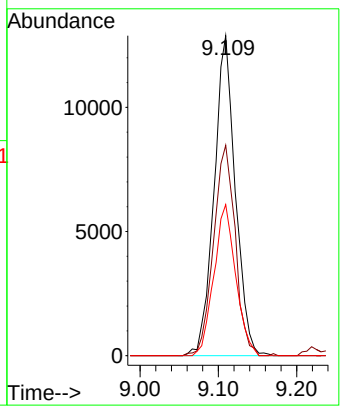
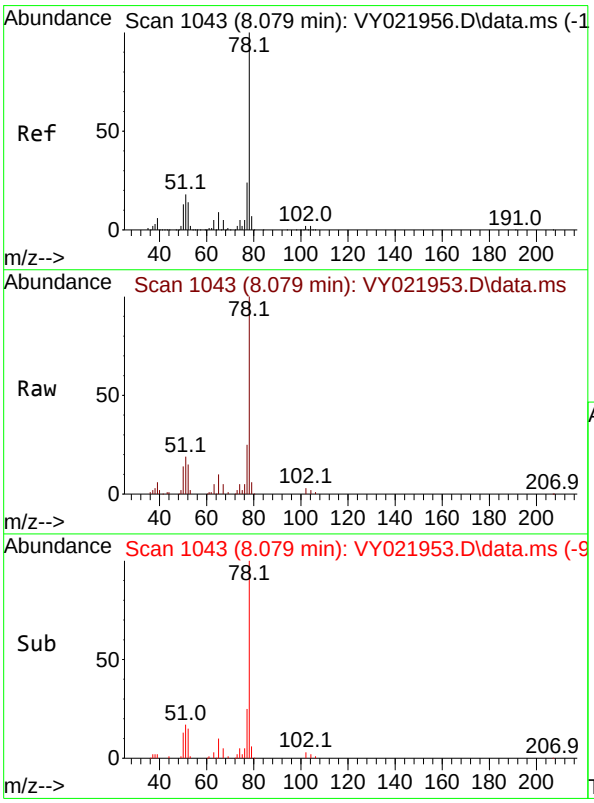
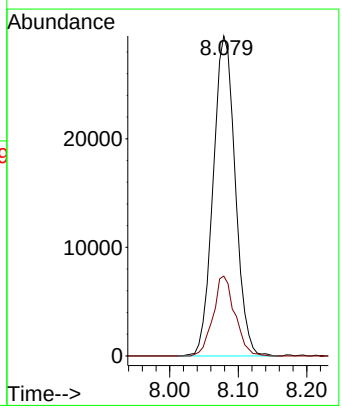


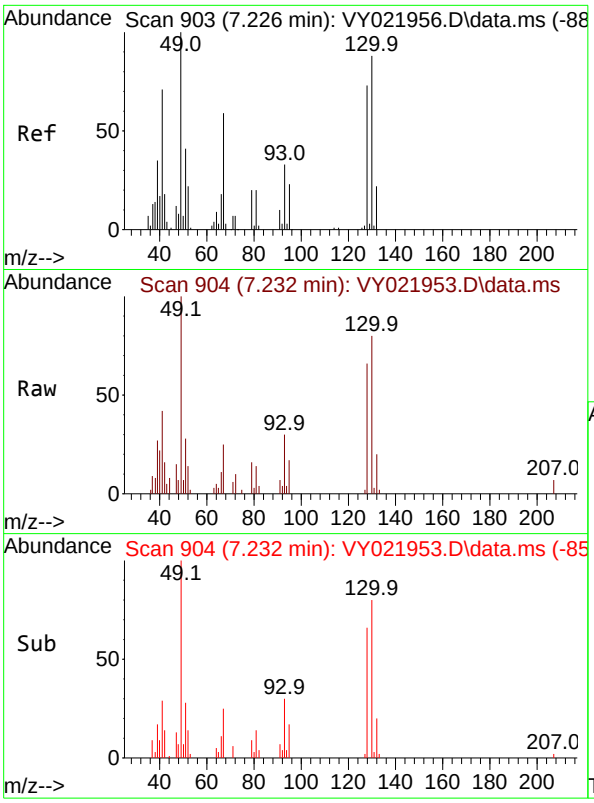


#40
Benzene
Concen: 5.129 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 78 Resp: 65878

Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.3	28.9

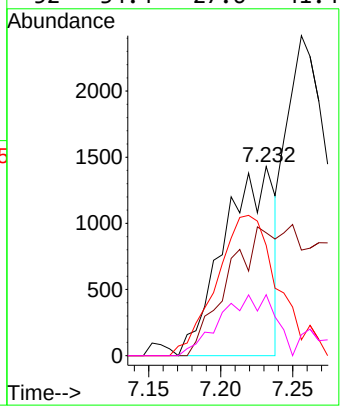




#41
Methacrylonitrile
Concen: 4.345 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 41 Resp: 350

Ion	Ratio	Lower	Upper
41	100		
39	63.9	36.6	55.0
67	89.8	72.2	108.4
52	34.4	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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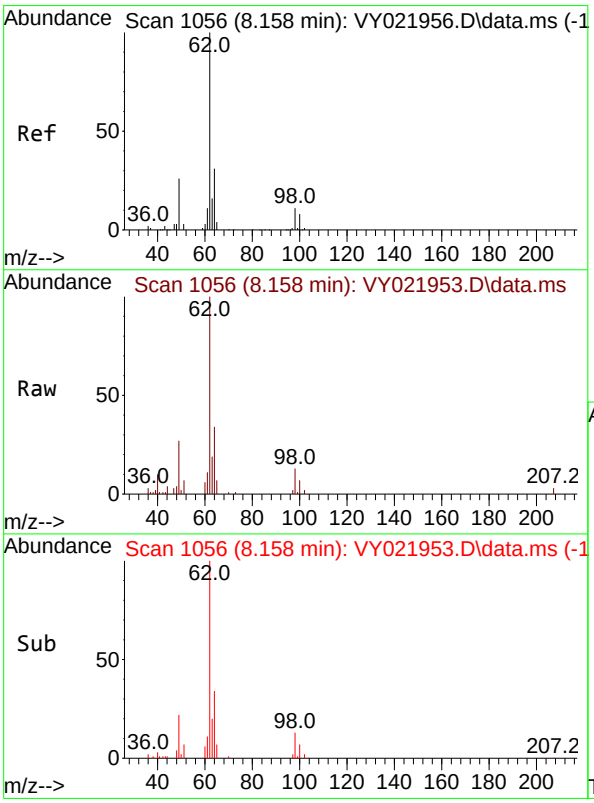
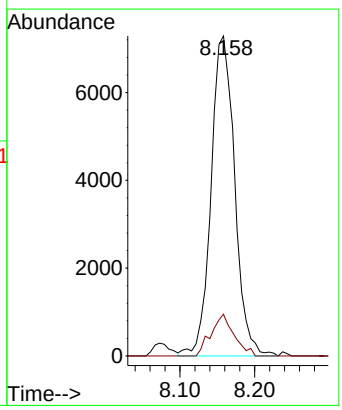
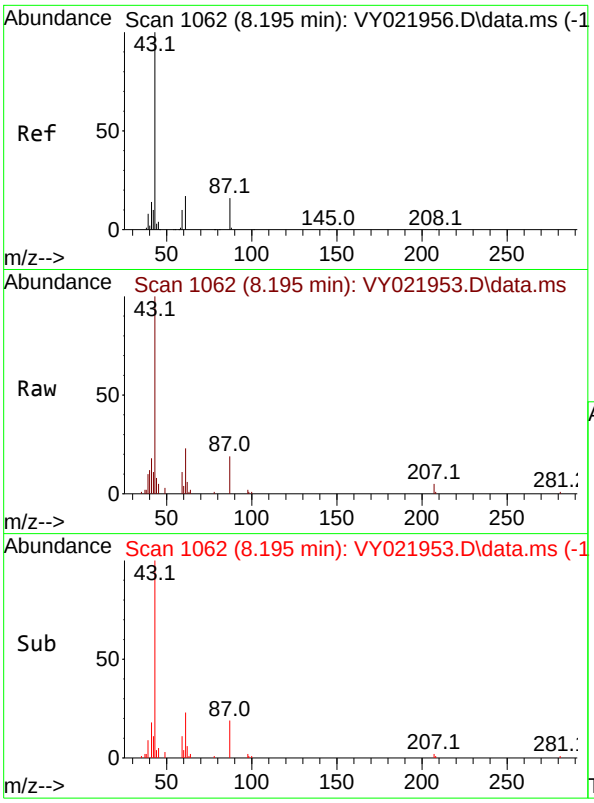


#42
1,2-Dichloroethane
Concen: 5.046 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 62 Resp: 16046

Ion	Ratio	Lower	Upper
62	100		
98	12.7	0.0	22.0

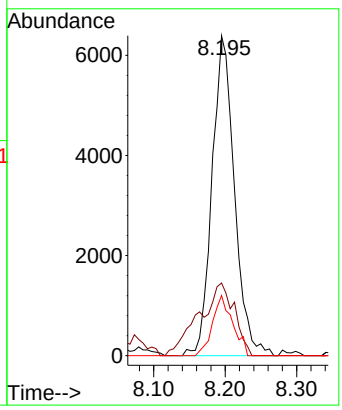




#43
Isopropyl Acetate
Concen: 4.919 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 1394

Ion	Ratio	Lower	Upper
43	100		
61	35.6	18.9	28.3#
87	16.8	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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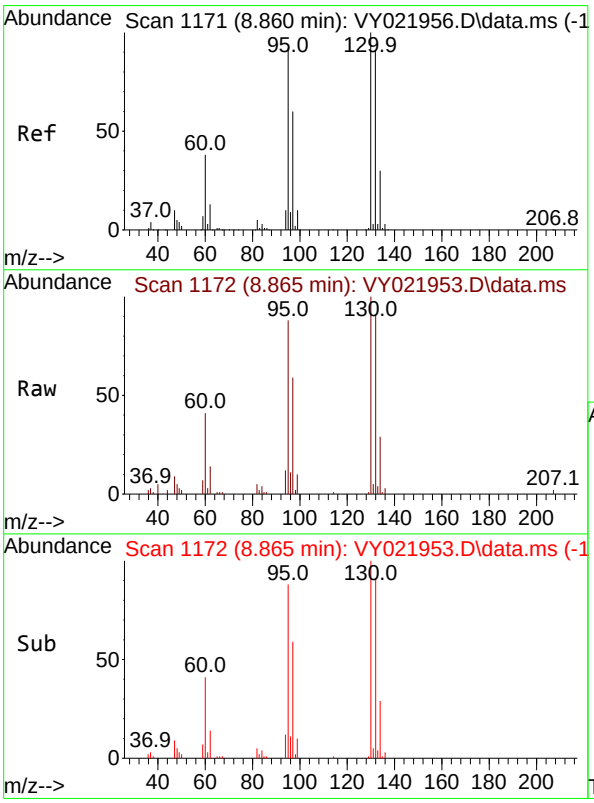
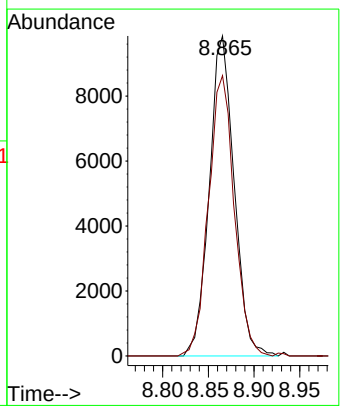
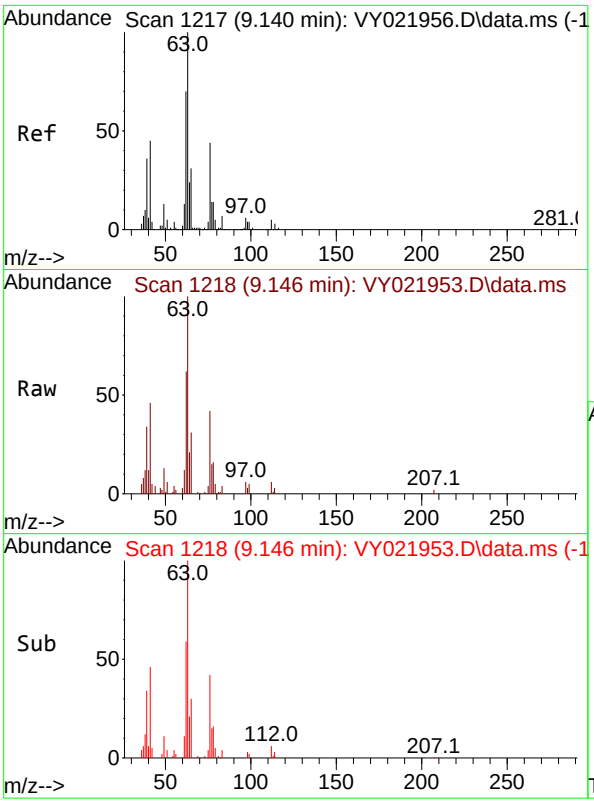


#44
Trichloroethene
Concen: 5.231 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:130 Resp: 18611

Ion	Ratio	Lower	Upper
130	100		
95	87.6	0.0	183.2

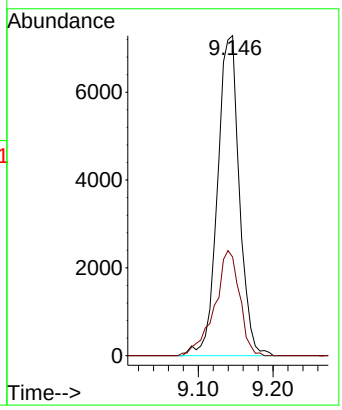




#45
1,2-Dichloropropane
Concen: 5.220 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 63 Resp: 1482

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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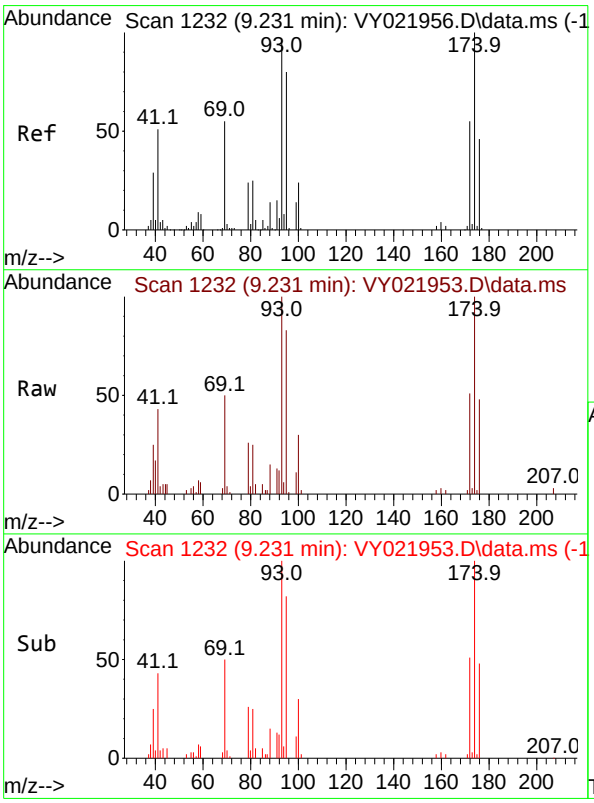
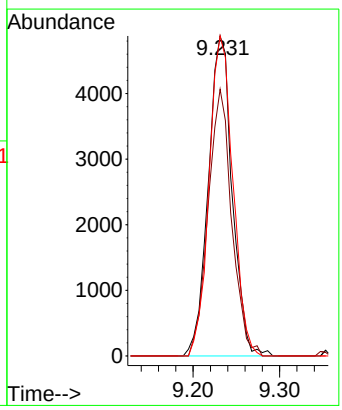
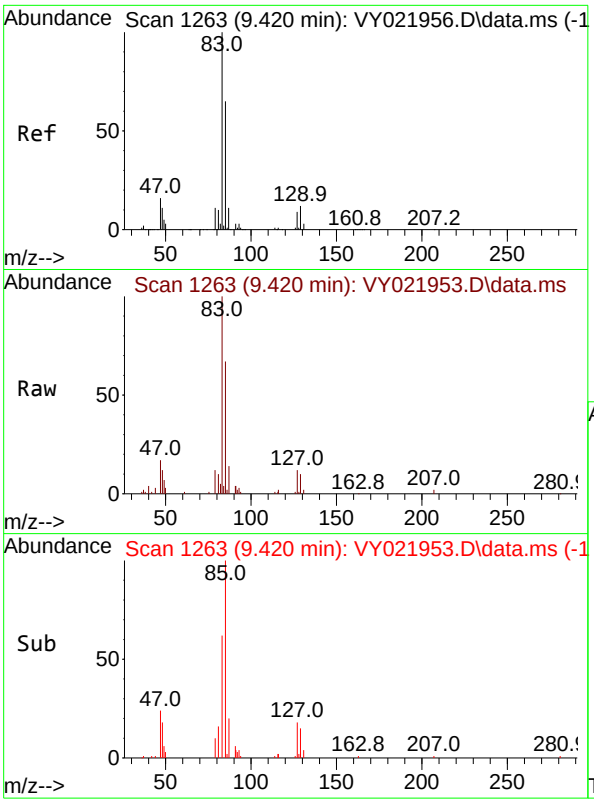


#46
Dibromomethane
Concen: 5.268 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 93 Resp: 9367

Ion	Ratio	Lower	Upper
93	100		
95	81.9	66.7	100.1
174	99.2	84.6	127.0

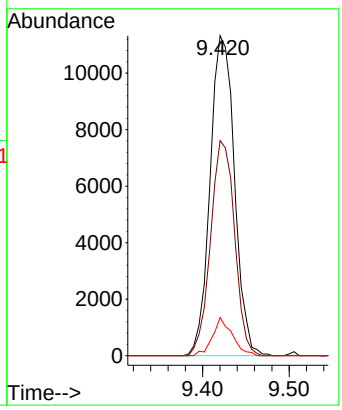




#47
Bromodichloromethane
Concen: 4.991 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 83 Resp: 2217

Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.8	77.8
127	11.9	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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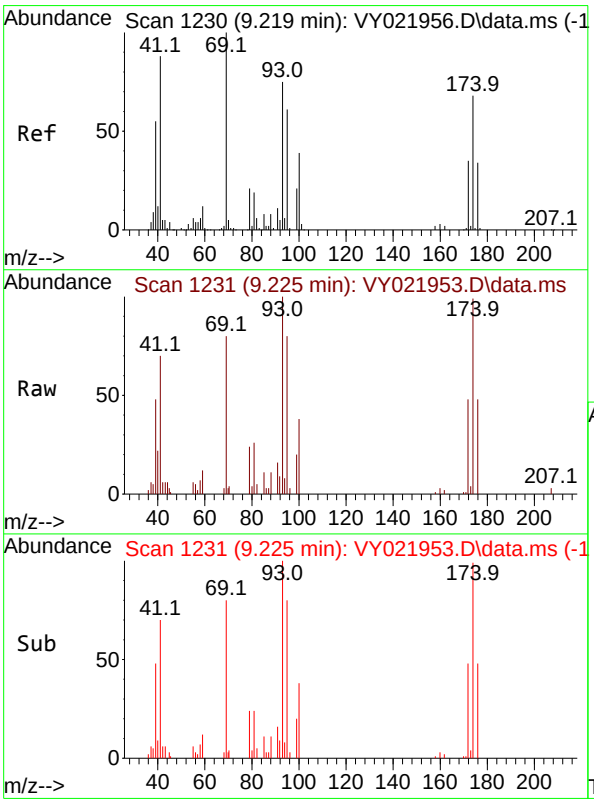
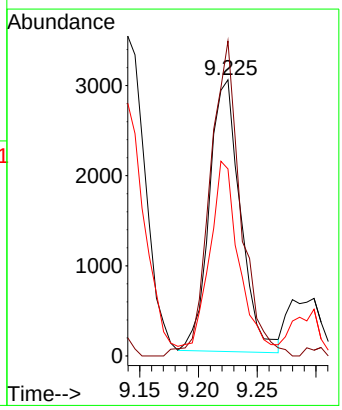
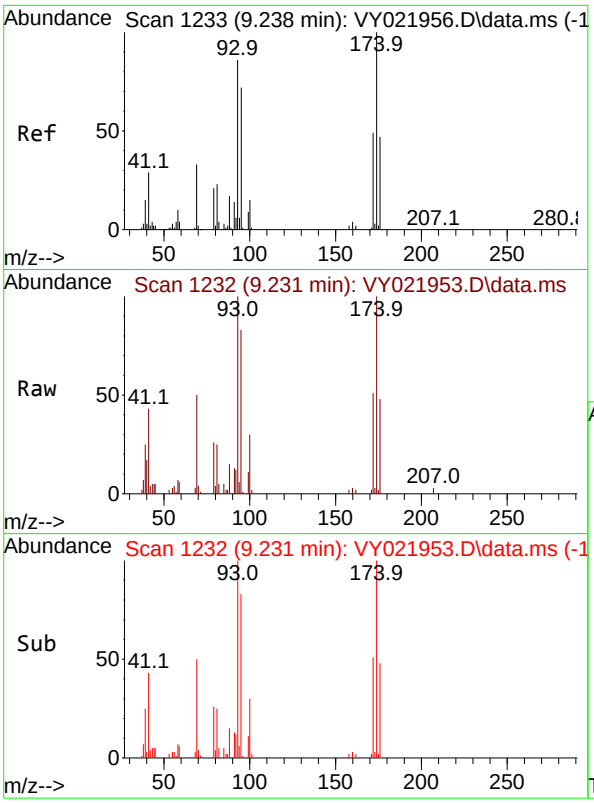


#48
Methyl methacrylate
Concen: 4.252 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 41 Resp: 5570

Ion	Ratio	Lower	Upper
41	100		
69	113.8	85.5	128.3
39	61.6	46.2	69.4

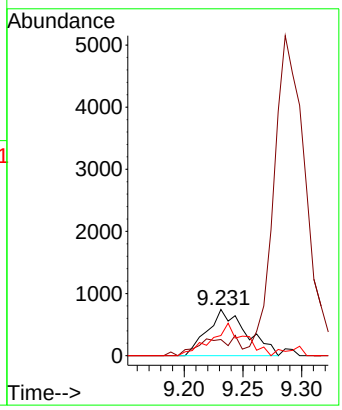




#49
1,4-Dioxane
Concen: 89.863 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 88 Resp: 170

Ion	Ratio	Lower	Upper
88	100		
43	38.6	21.3	31.9
58	60.0	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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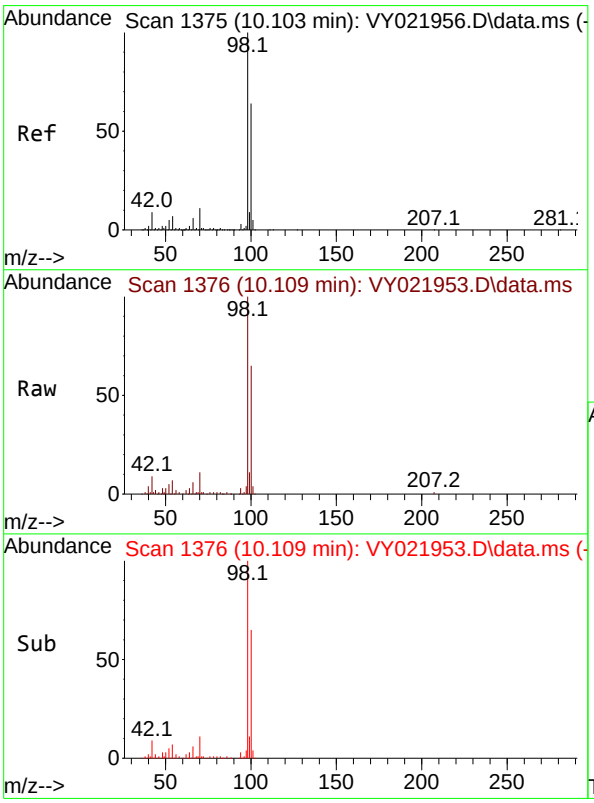
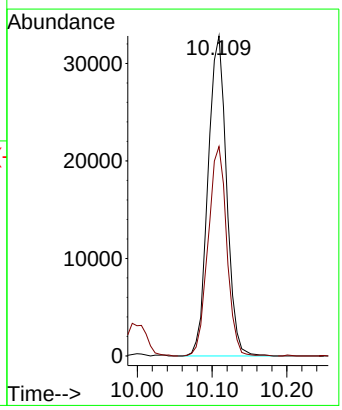
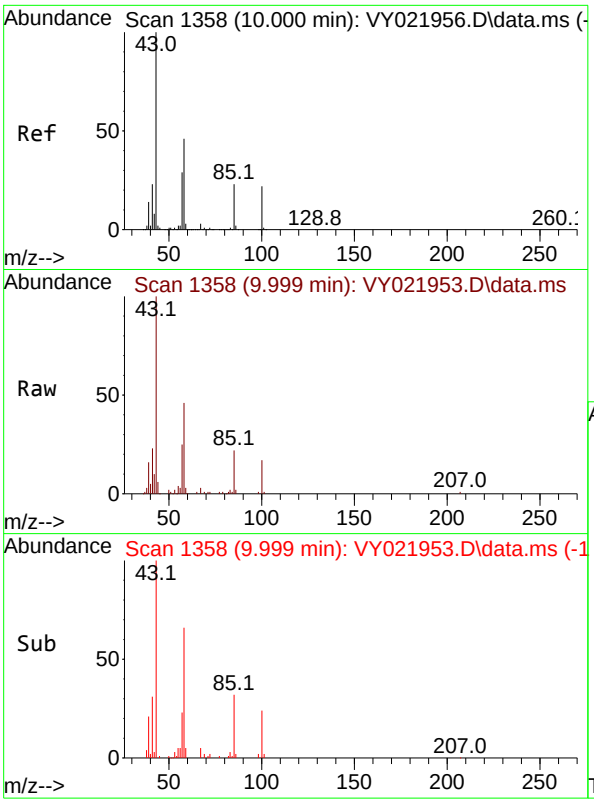


#50
Toluene-d8
Concen: 4.900 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 98 Resp: 56501

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.6	77.4

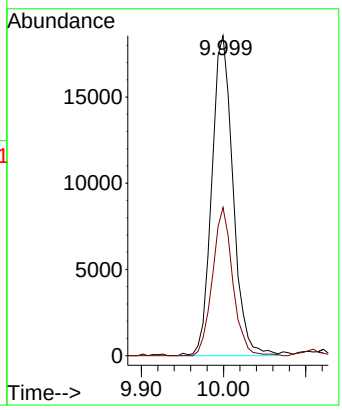




#51
4-Methyl-2-Pentanone
Concen: 22.414 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 3329

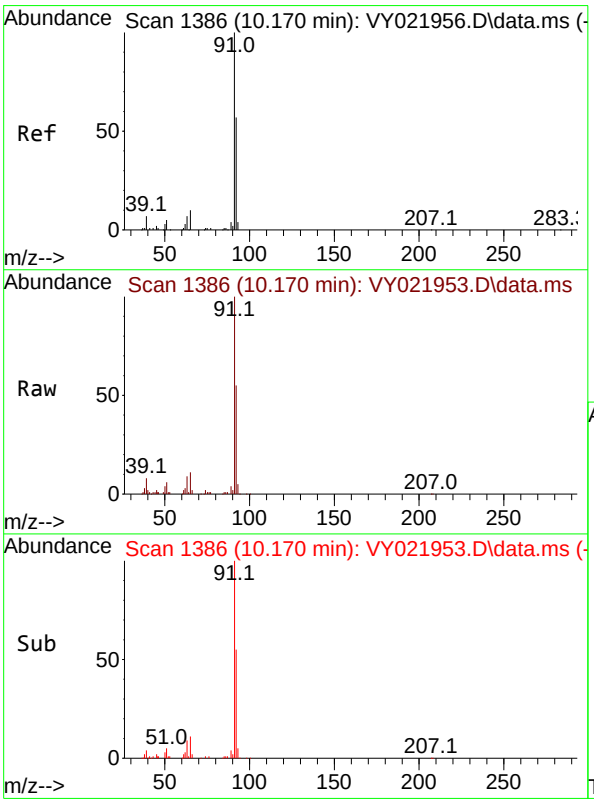
Ion	Ratio	Lower	Upper
43	100		
58	44.2	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

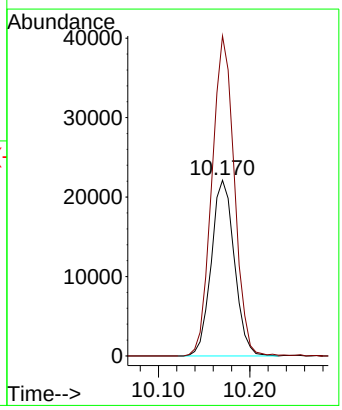
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

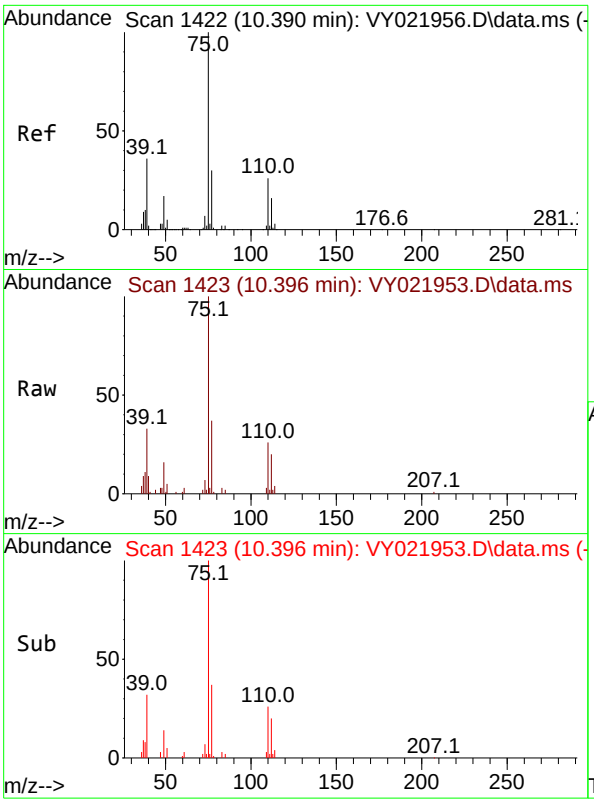


#52
Toluene
Concen: 4.665 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 92 Resp: 38784

Ion	Ratio	Lower	Upper
92	100		
91	177.9	138.6	207.8

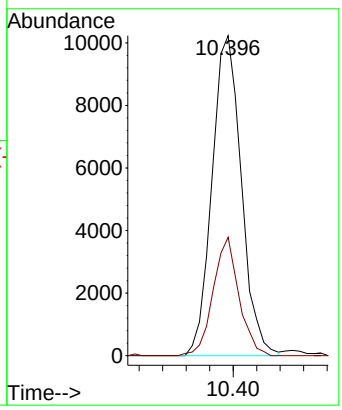




#53
t-1,3-Dichloropropene
Concen: 4.649 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 75 Resp: 1771

Ion	Ratio	Lower	Upper
75	100		
77	37.0	24.0	36.0#



Instrument :
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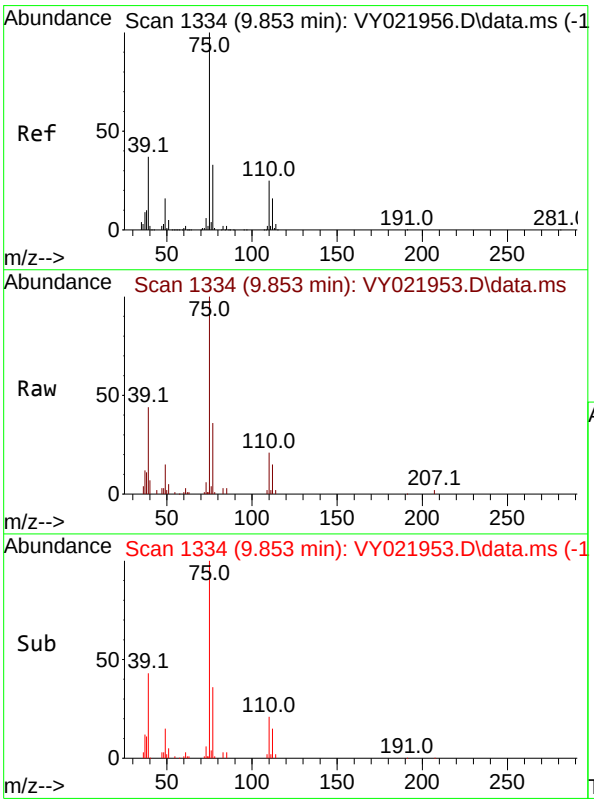
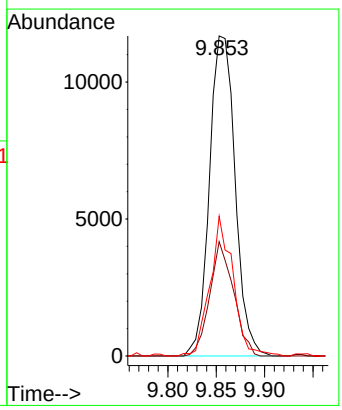
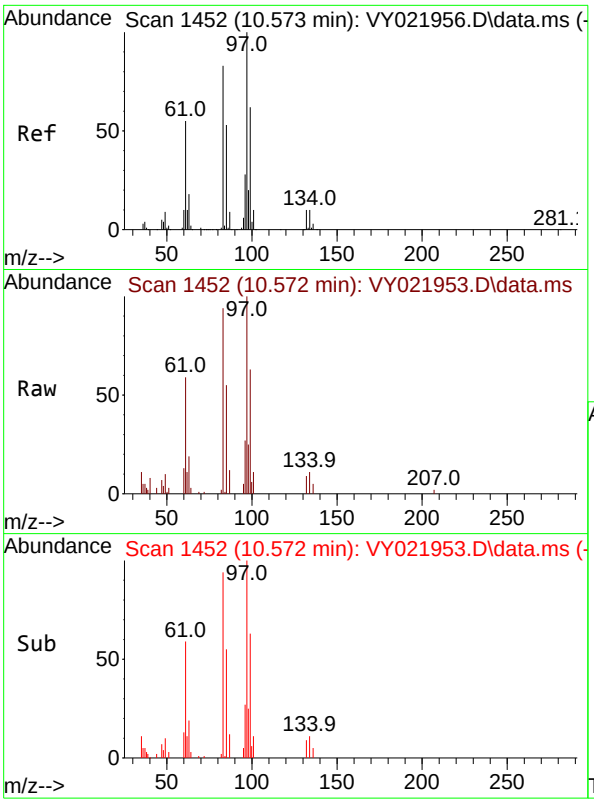


#54
cis-1,3-Dichloropropene
Concen: 4.765 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 75 Resp: 21582

Ion	Ratio	Lower	Upper
75	100		
77	35.7	26.6	40.0
39	43.6	29.6	44.4

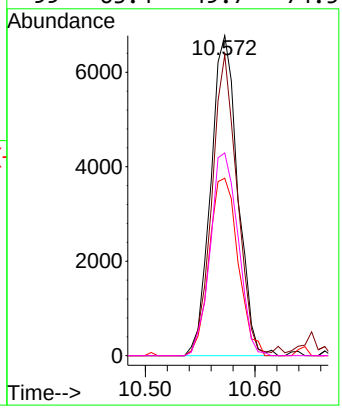




#55
1,1,2-Trichloroethane
Concen: 4.877 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 97 Resp: 1158

Ion	Ratio	Lower	Upper
97	100		
83	94.0	66.7	100.1
85	55.5	42.6	64.0
99	63.4	49.7	74.5



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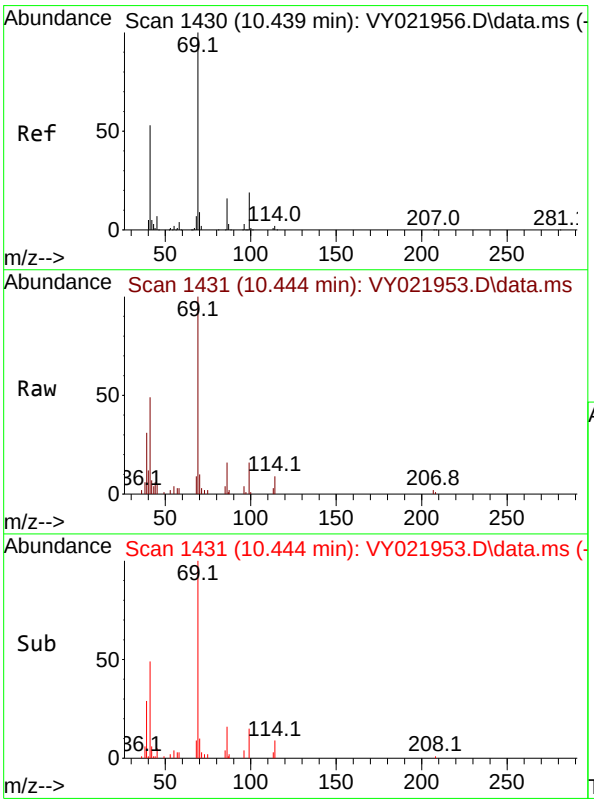
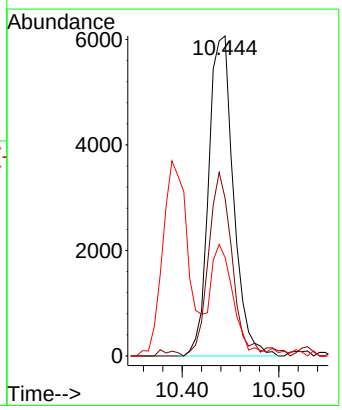
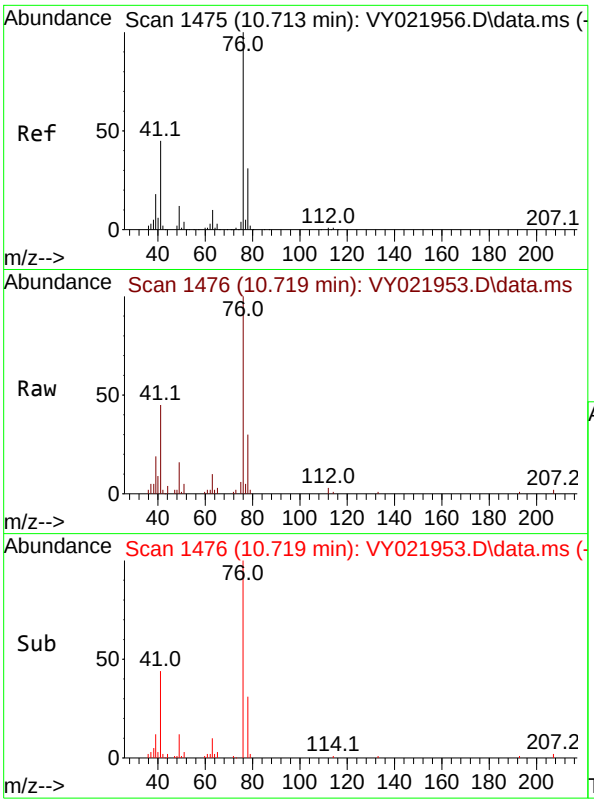


#56
Ethyl methacrylate
Concen: 3.982 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 69 Resp: 10816

Ion	Ratio	Lower	Upper
69	100		
41	54.5	40.7	61.1
39	30.0	23.3	34.9

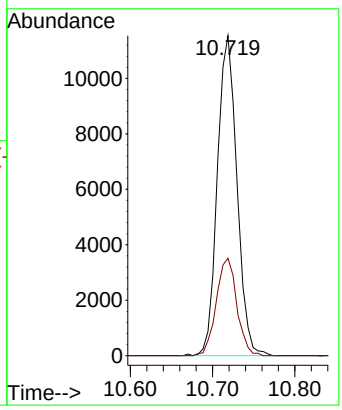




#57
1,3-Dichloropropane
Concen: 5.020 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 76 Resp: 1911

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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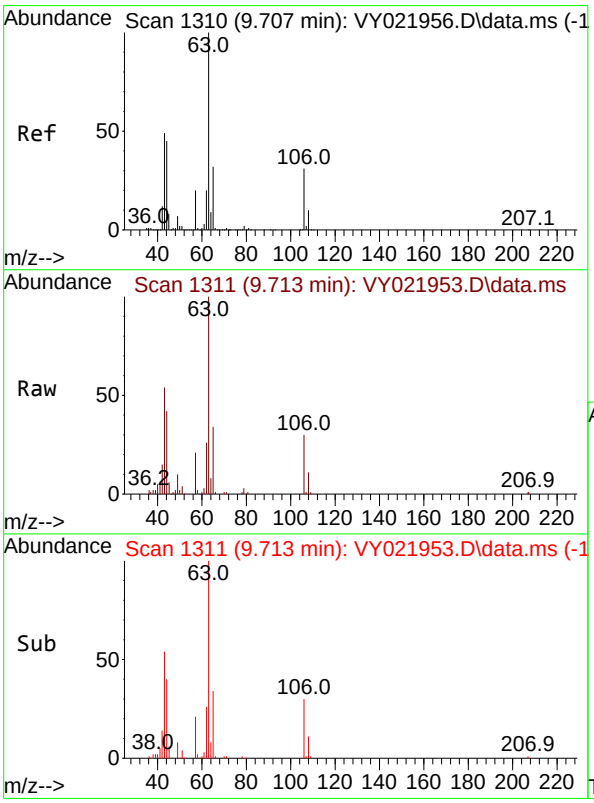
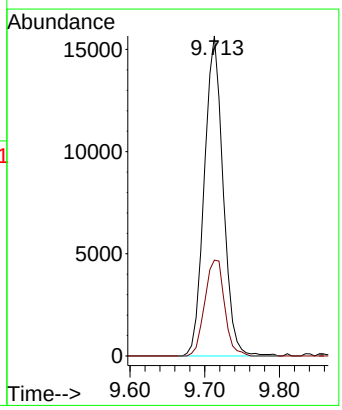
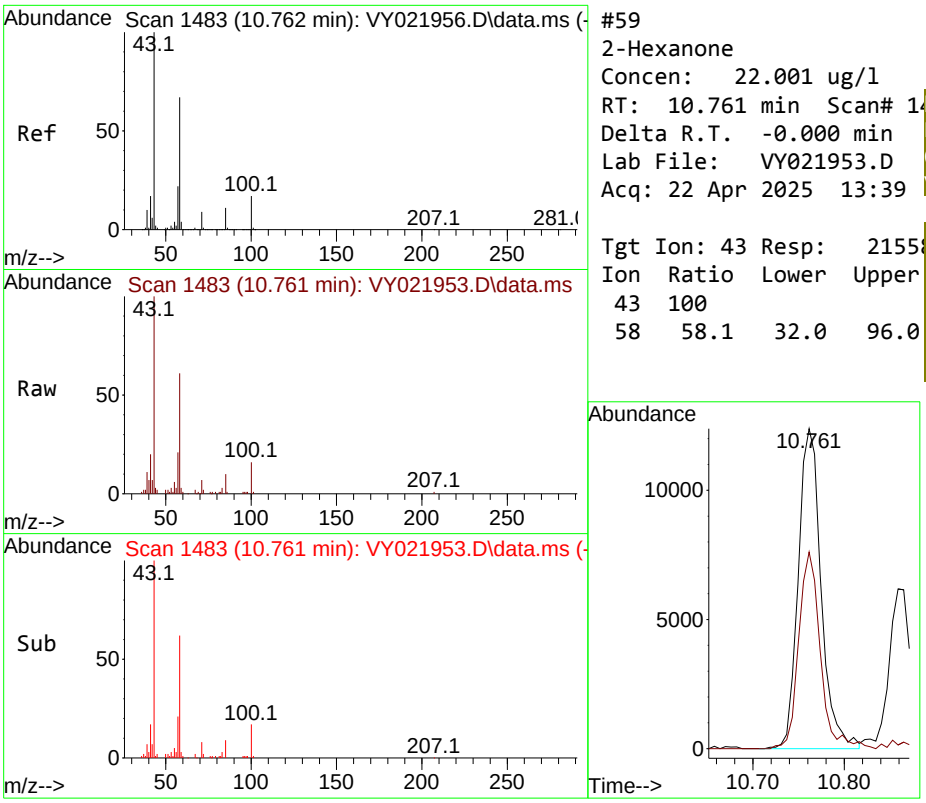


#58
2-Chloroethyl Vinyl ether
Concen: 20.606 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 63 Resp: 27363

Ion	Ratio	Lower	Upper
63	100		
106	31.5	25.3	37.9





#59
2-Hexanone
Concen: 22.001 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 2155

Ion	Ratio	Lower	Upper
43	100		
58	58.1	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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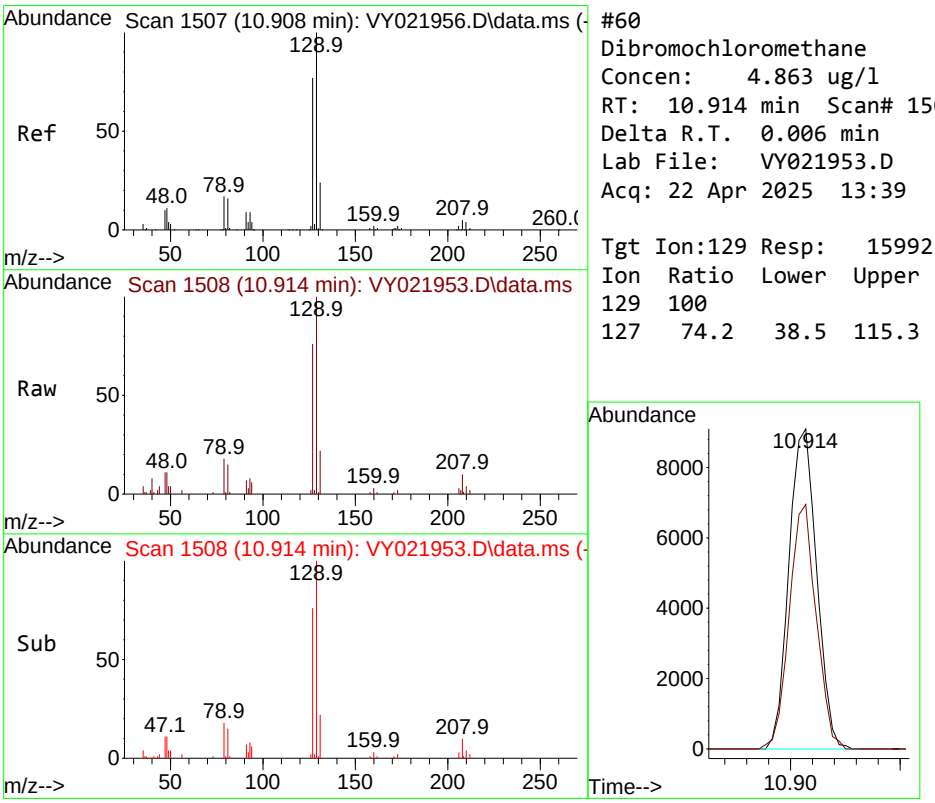
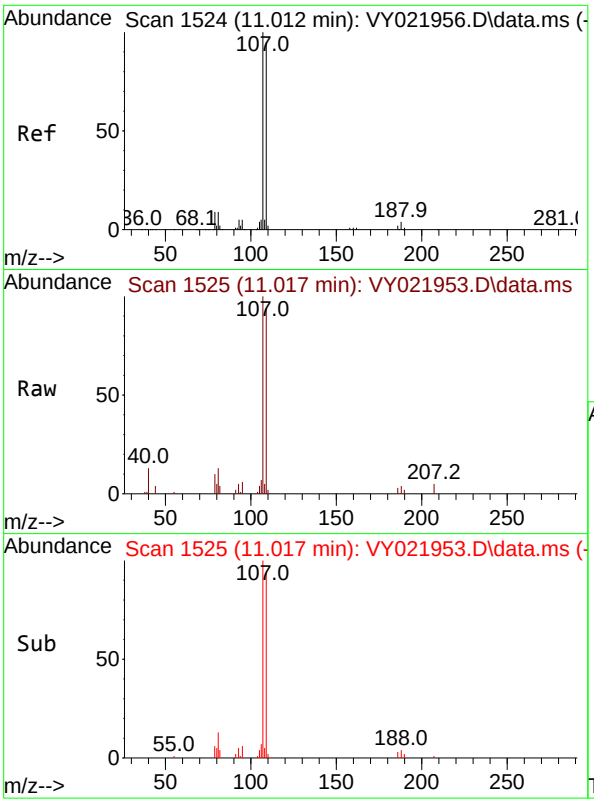
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#60
Dibromochloromethane
Concen: 4.863 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:129 Resp: 15992

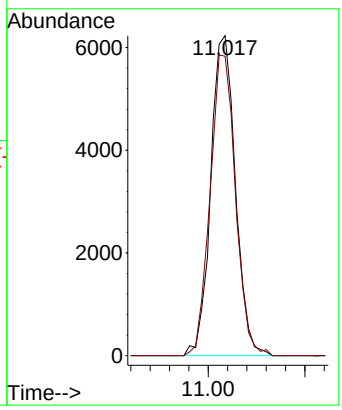
Ion	Ratio	Lower	Upper
129	100		
127	74.2	38.5	115.3



#61
1,2-Dibromoethane
Concen: 4.915 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:107 Resp: 1102

Ion	Ratio	Lower	Upper
107	100		
109	96.5	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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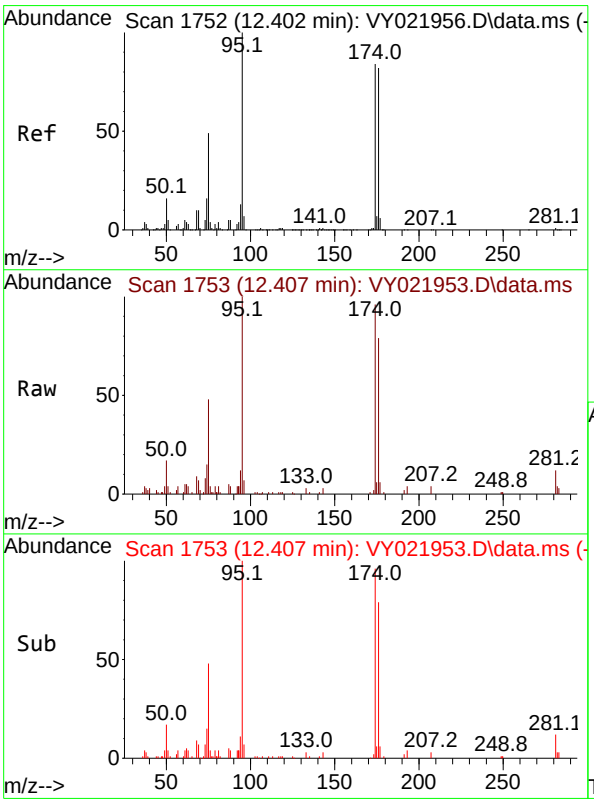
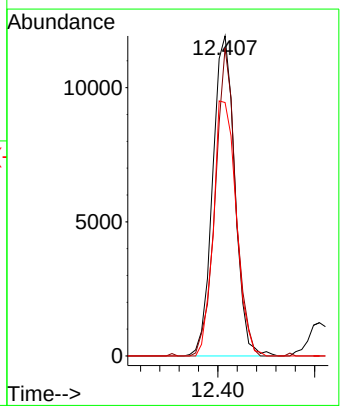
Supervised By :Mahesh Dadoda 04/23/2025

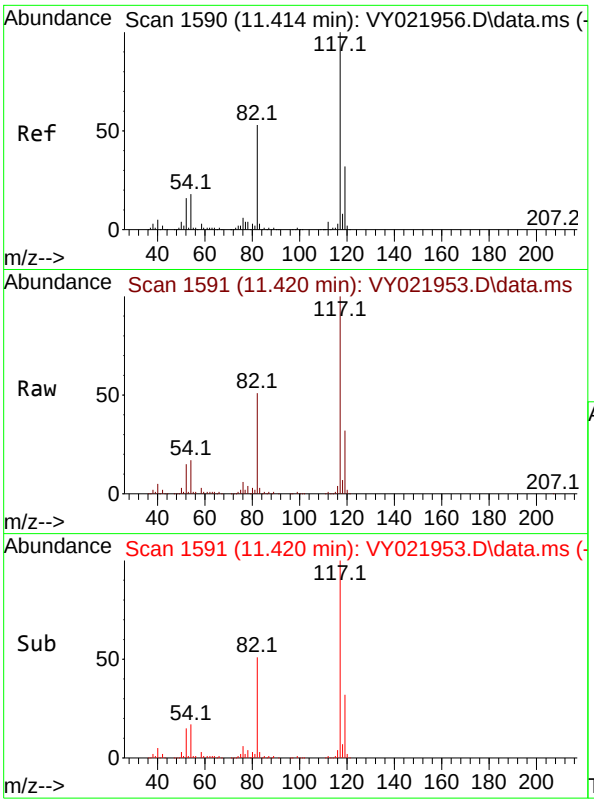


#62
4-Bromofluorobenzene
Concen: 4.869 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 95 Resp: 18902

Ion	Ratio	Lower	Upper
95	100		
174	88.7	0.0	179.0
176	82.4	0.0	171.8

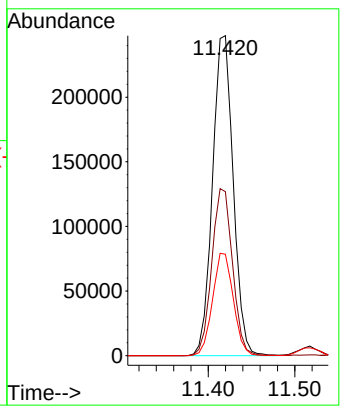




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:117 Resp: 41072

Ion	Ratio	Lower	Upper
117	100		
82	51.3	42.1	63.1
119	31.7	25.7	38.5



Instrument :
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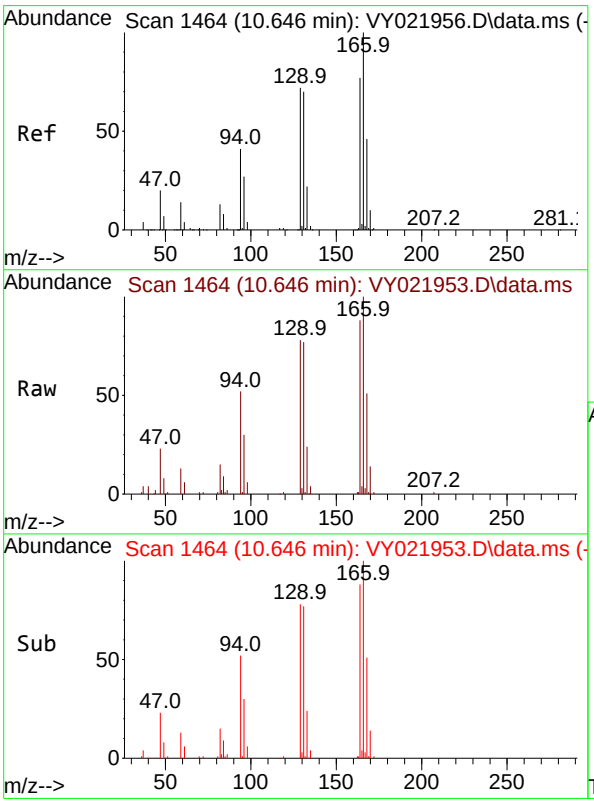
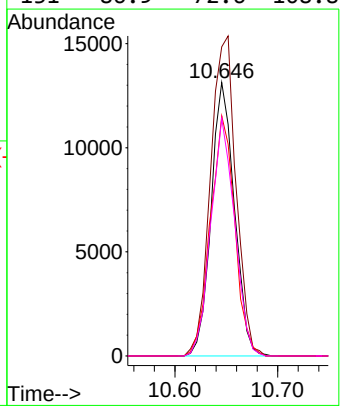
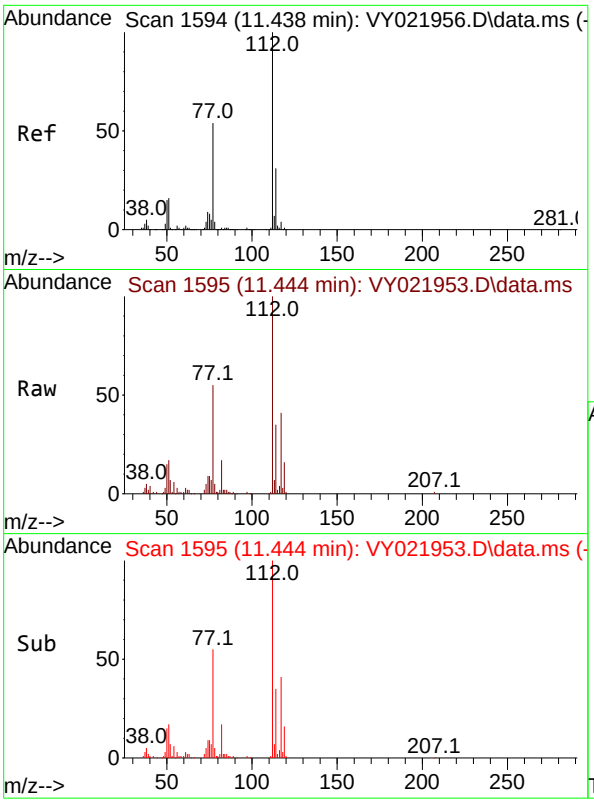


#64
Tetrachloroethene
Concen: 5.302 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:164 Resp: 20545

Ion	Ratio	Lower	Upper
164	100		
166	113.0	103.6	155.4
129	87.8	74.2	111.4
131	86.9	72.6	108.8

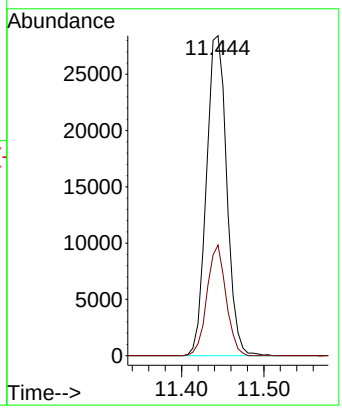




#65
Chlorobenzene
Concen: 5.314 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:112 Resp: 4880

Ion	Ratio	Lower	Upper
112	100		
114	34.6	25.0	37.4



Instrument :
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ClientSampleId :
VSTDICC005

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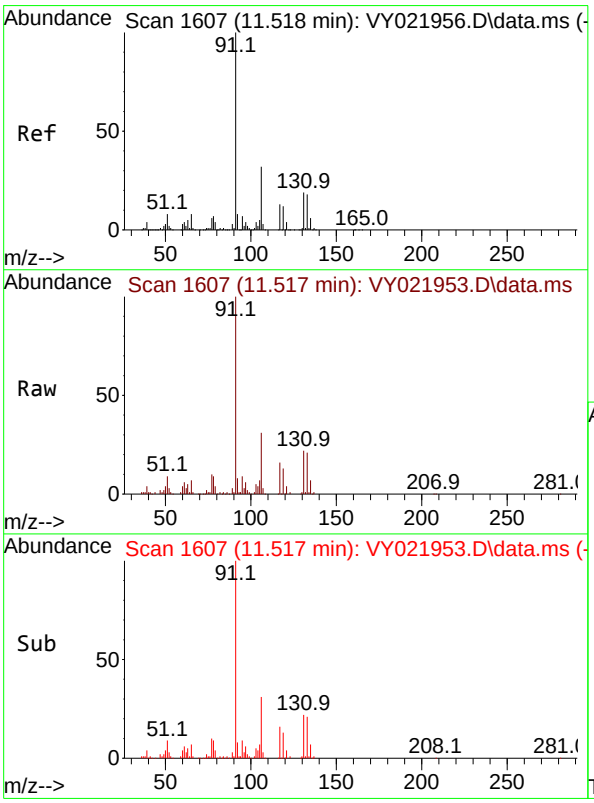
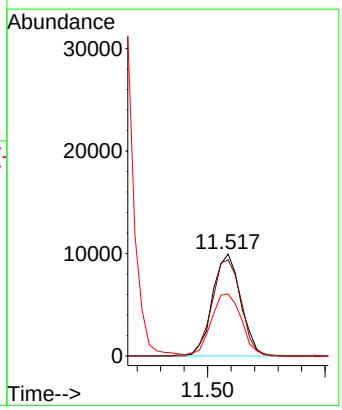
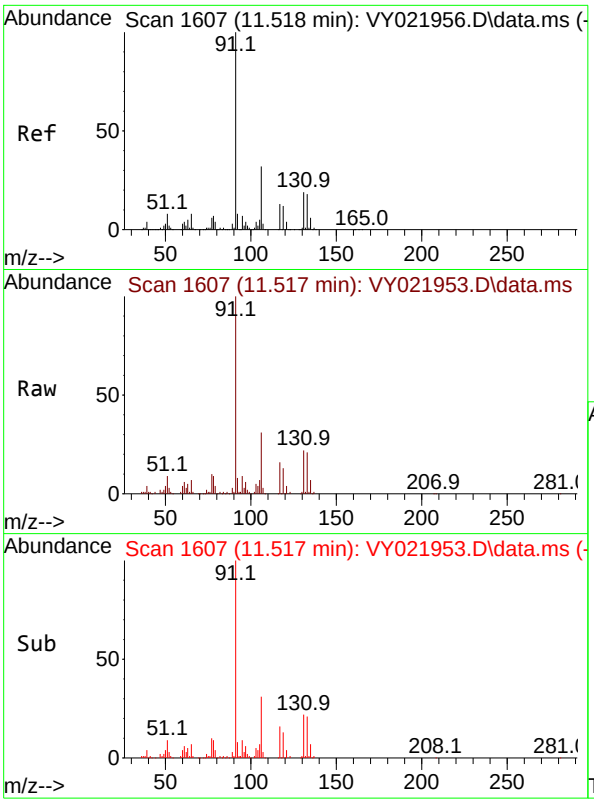


#66
1,1,1,2-Tetrachloroethane
Concen: 5.097 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:131 Resp: 16483

Ion	Ratio	Lower	Upper
131	100		
133	98.5	47.8	143.3
119	65.6	32.4	97.0

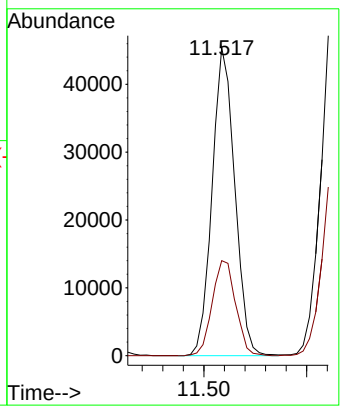




#67
Ethyl Benzene
Concen: 4.629 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 91 Resp: 6954

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.9	38.9



Instrument :
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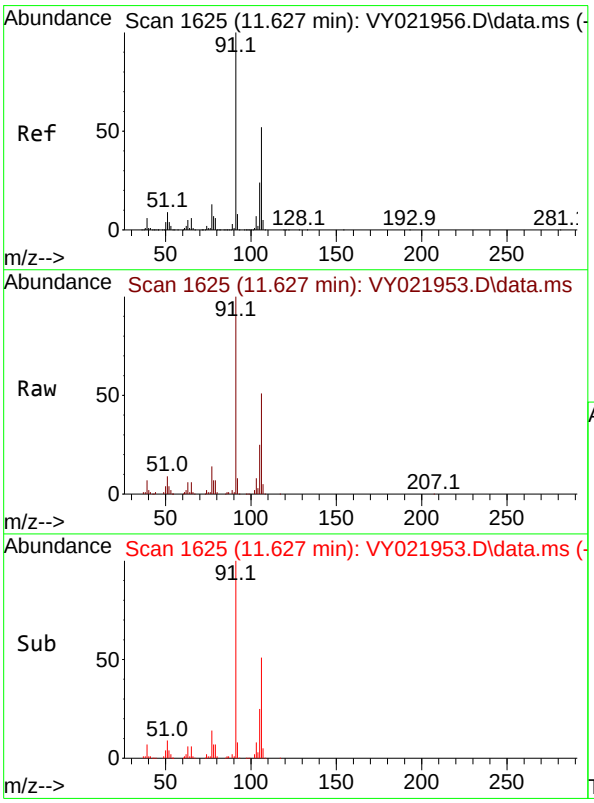
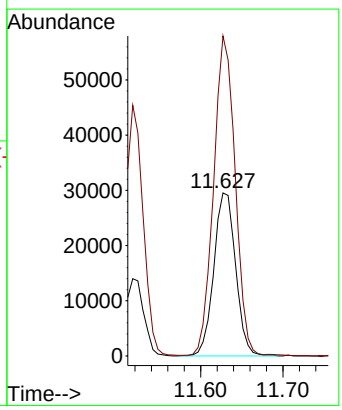
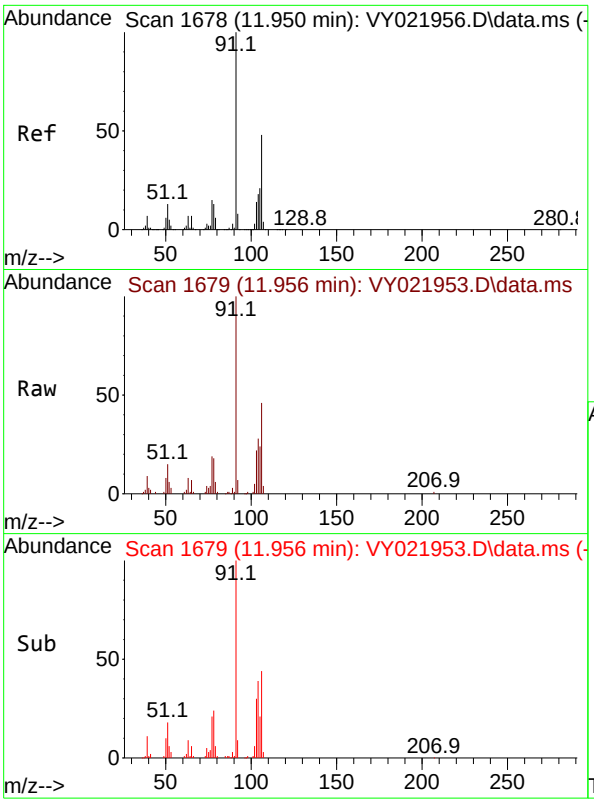


#68
m/p-Xylenes
Concen: 9.119 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:106 Resp: 54518

Ion	Ratio	Lower	Upper
106	100		
91	195.0	156.2	234.2





#69
o-Xylene
Concen: 4.466 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:106 Resp: 2461

Ion	Ratio	Lower	Upper
106	100		
91	208.8	103.0	308.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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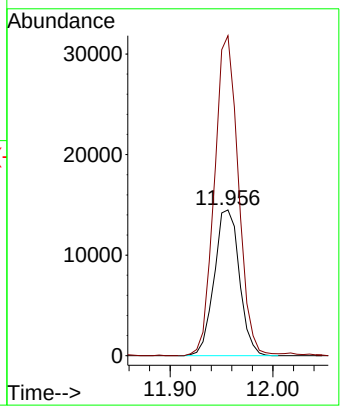
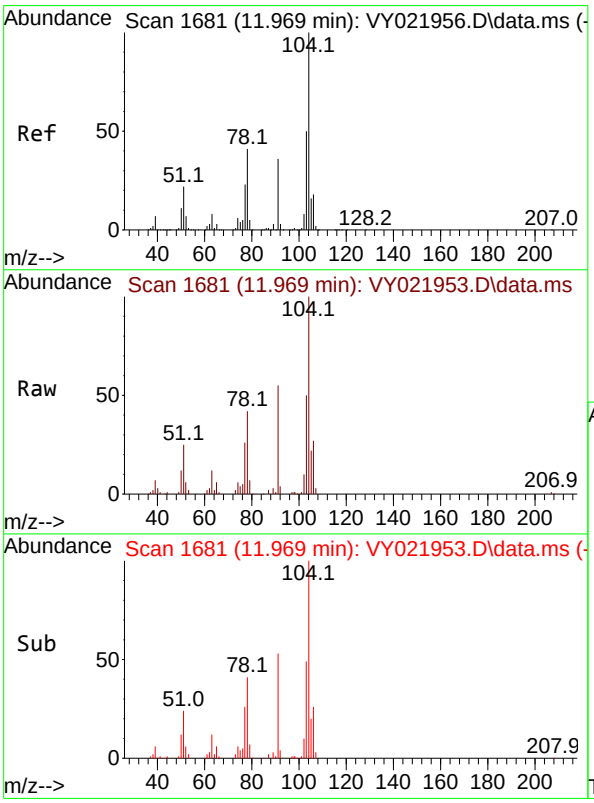
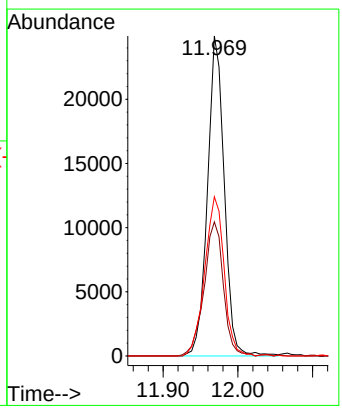


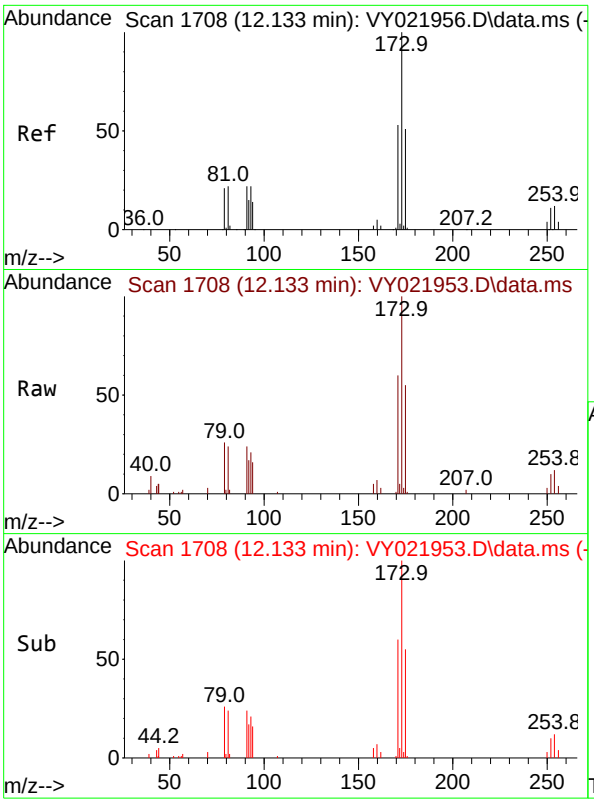


#70
Styrene
Concen: 4.217 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:104 Resp: 39016

Ion	Ratio	Lower	Upper
104	100		
78	48.0	36.6	54.8
103	57.1	43.8	65.8

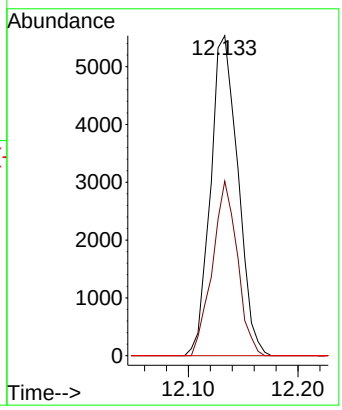




#71
Bromoform
Concen: 5.111 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:173 Resp: 960

Ion	Ratio	Lower	Upper
173	100		
175	49.9	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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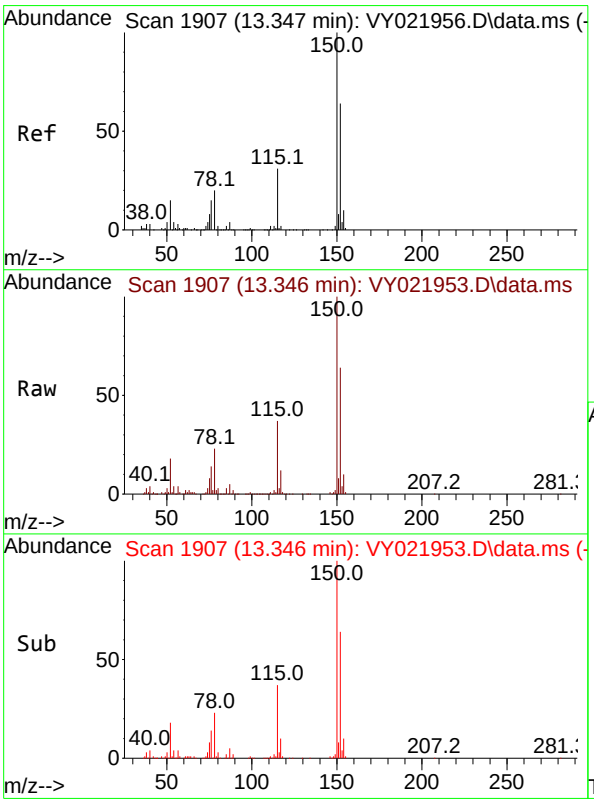
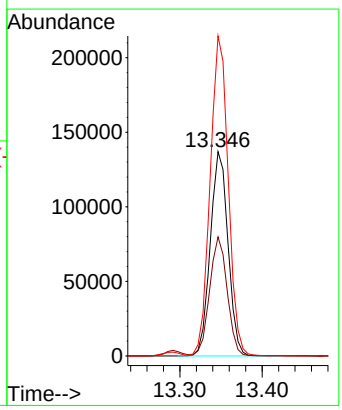
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

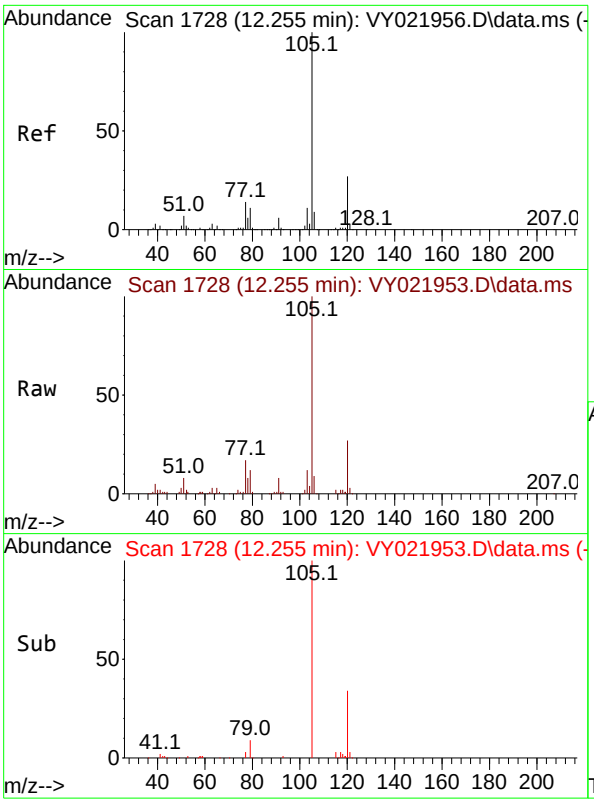


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:152 Resp: 205526

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.0	84.0
150	159.3	0.0	345.6

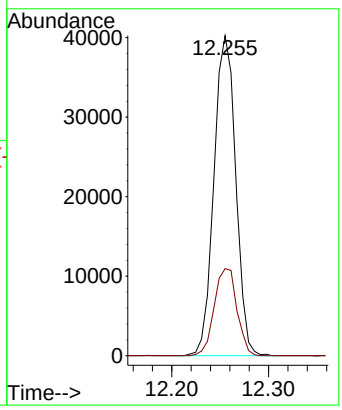




#73
Isopropylbenzene
Concen: 4.582 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:105 Resp: 6291

Ion	Ratio	Lower	Upper
105	100		
120	28.3	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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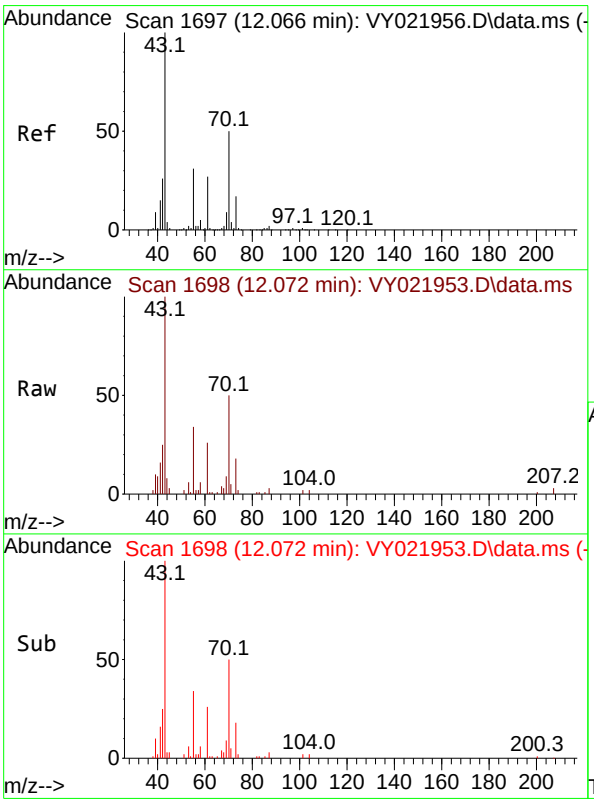
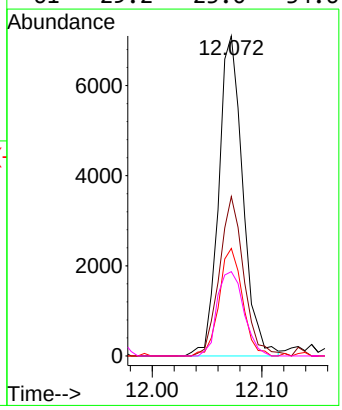
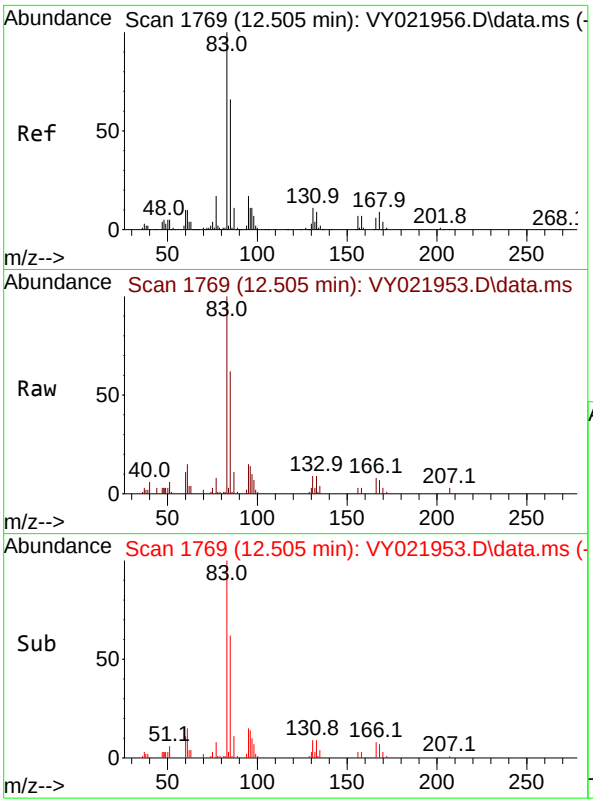


#74
N-amyl acetate
Concen: 4.596 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 43 Resp: 10843

Ion	Ratio	Lower	Upper
43	100		
70	50.3	43.2	64.8
55	32.5	25.7	38.5
61	29.2	23.0	34.6

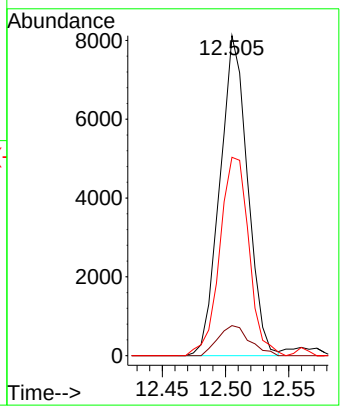




#75
1,1,2,2-Tetrachloroethane
Concen: 5.340 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 83 Resp: 1236

Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.5	16.4
85	65.3	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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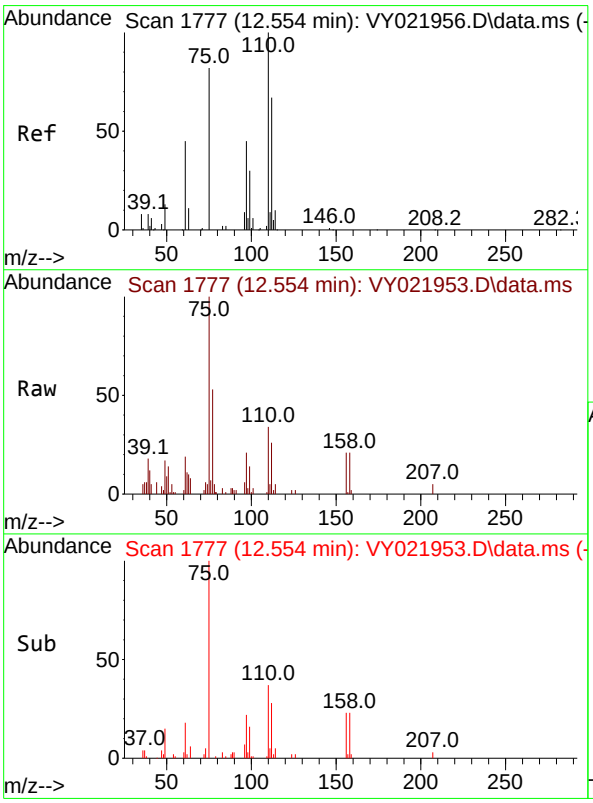
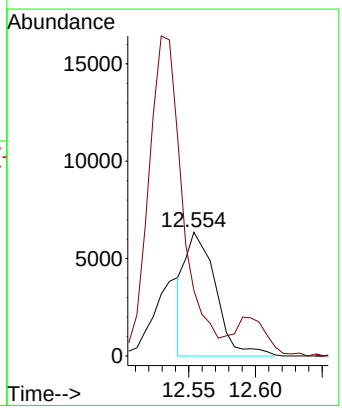
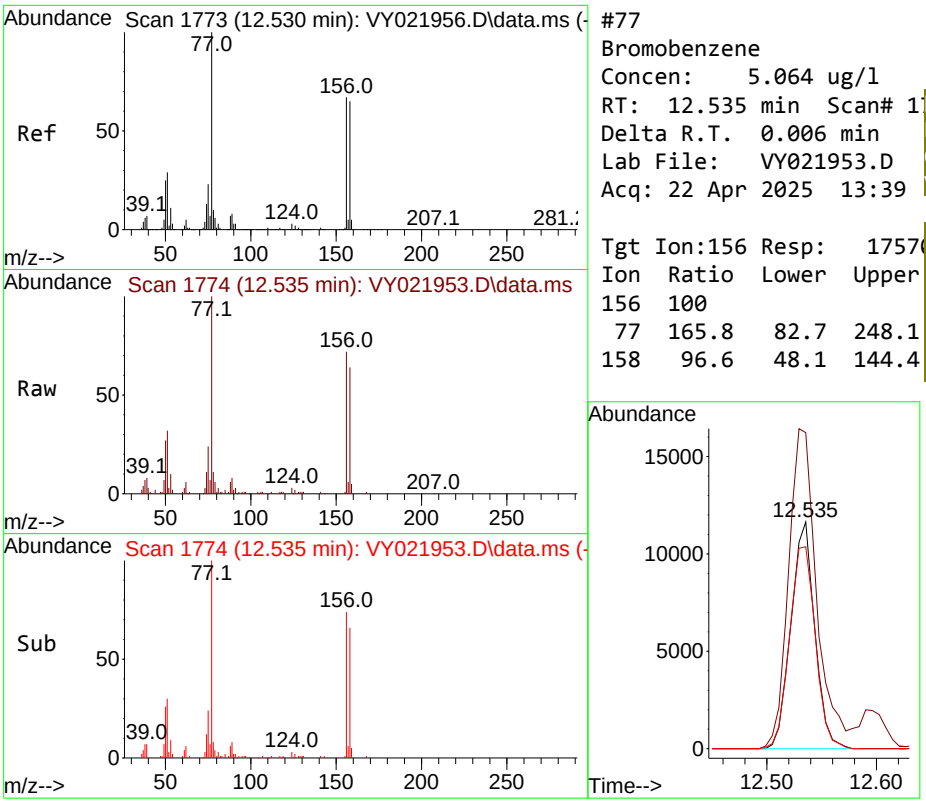


#76
1,2,3-Trichloropropane
Concen: 5.648 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 75 Resp: 10228

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 5.064 ug/l
RT: 12.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:156 Resp: 1757

Ion	Ratio	Lower	Upper
156	100		
77	165.8	82.7	248.1
158	96.6	48.1	144.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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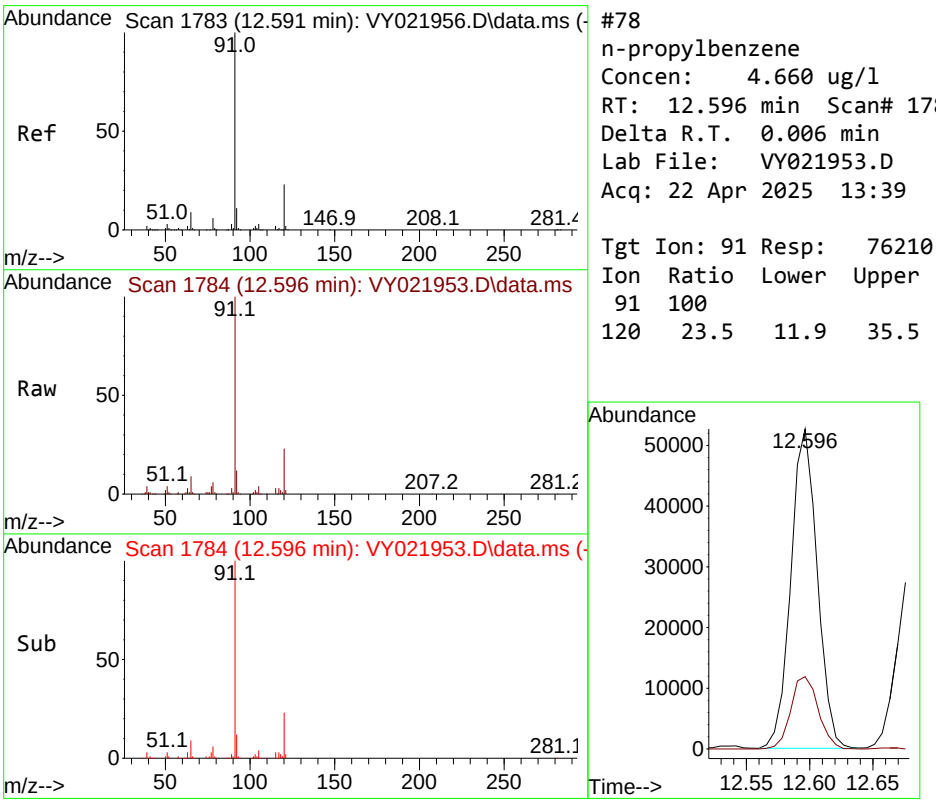
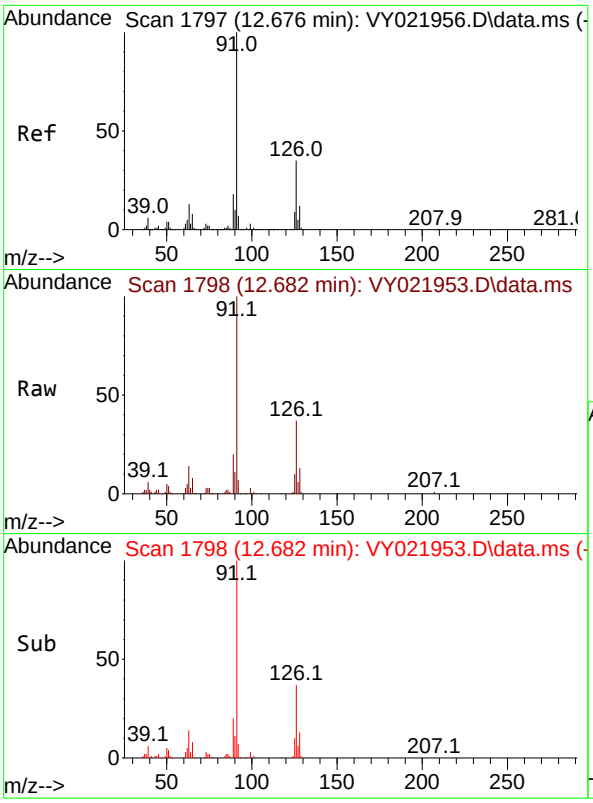
Supervised By :Mahesh Dadoda 04/23/2025



#78
n-propylbenzene
Concen: 4.660 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 91 Resp: 76210

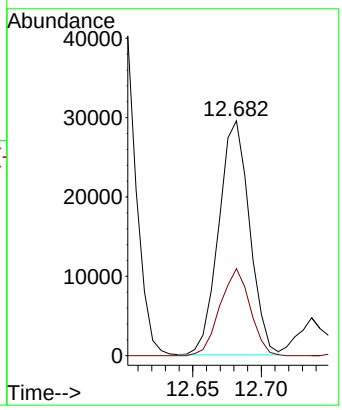
Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.9	35.5



#79
2-Chlorotoluene
Concen: 4.868 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 91 Resp: 4629

Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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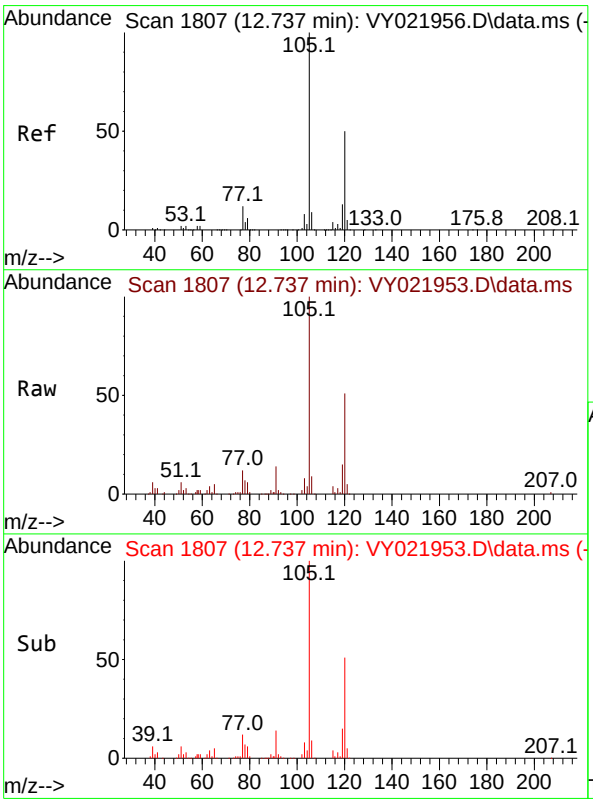
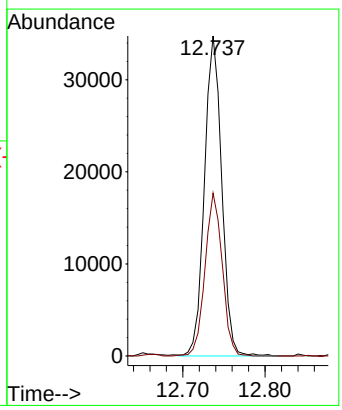
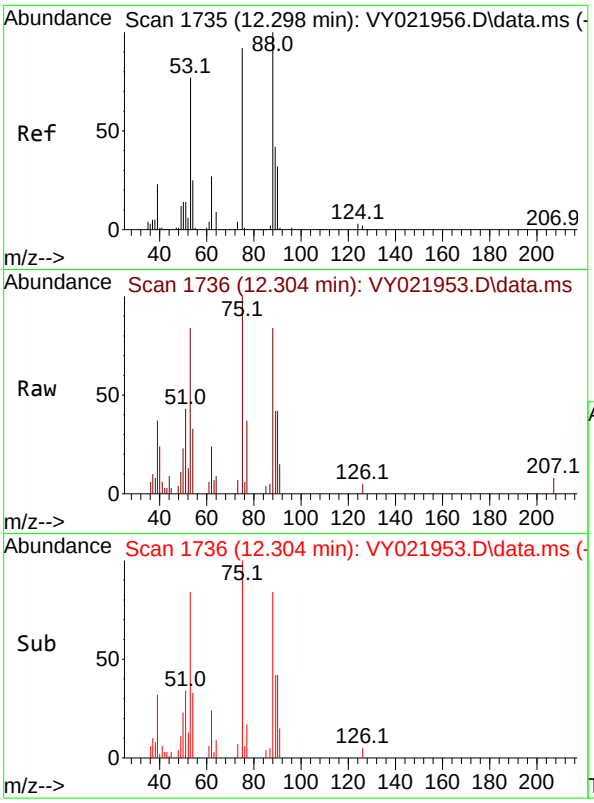


#80
1,3,5-Trimethylbenzene
Concen: 4.481 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:105 Resp: 50699

Ion	Ratio	Lower	Upper
105	100		
120	50.7	25.0	75.0





#81
trans-1,4-Dichloro-2-butene
Concen: 5.191 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 75 Resp: 379

Ion	Ratio	Lower	Upper
75	100		
53	84.6	66.0	99.0
89	46.9	37.2	55.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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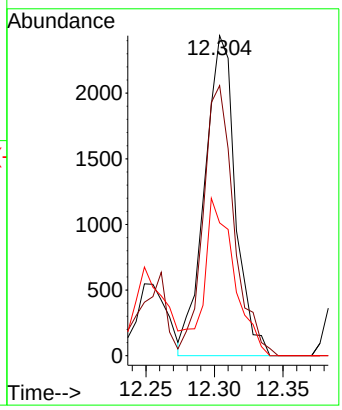
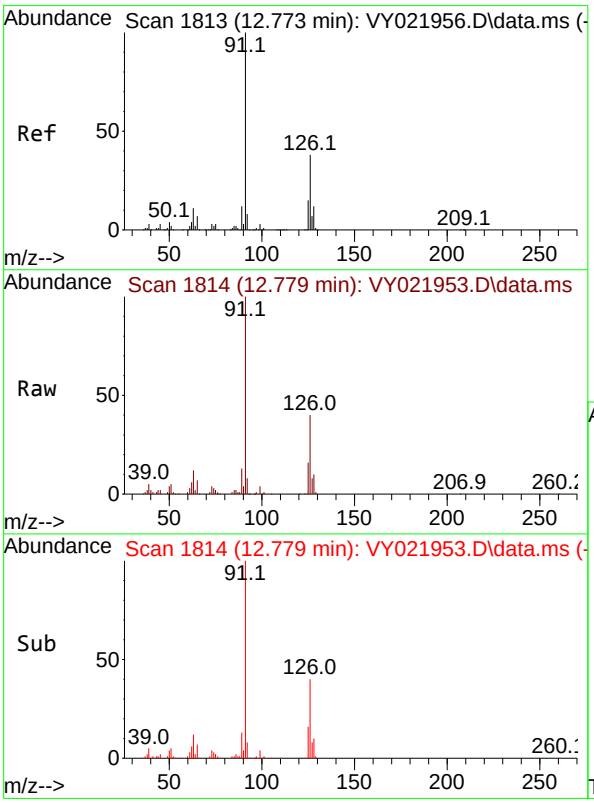
Supervised By :Mahesh Dadoda 04/23/2025

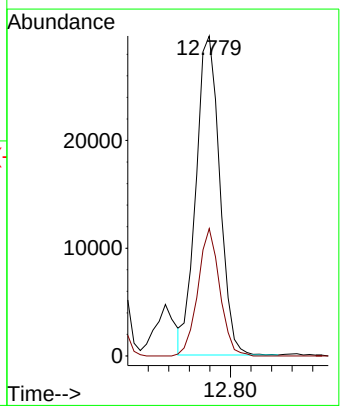


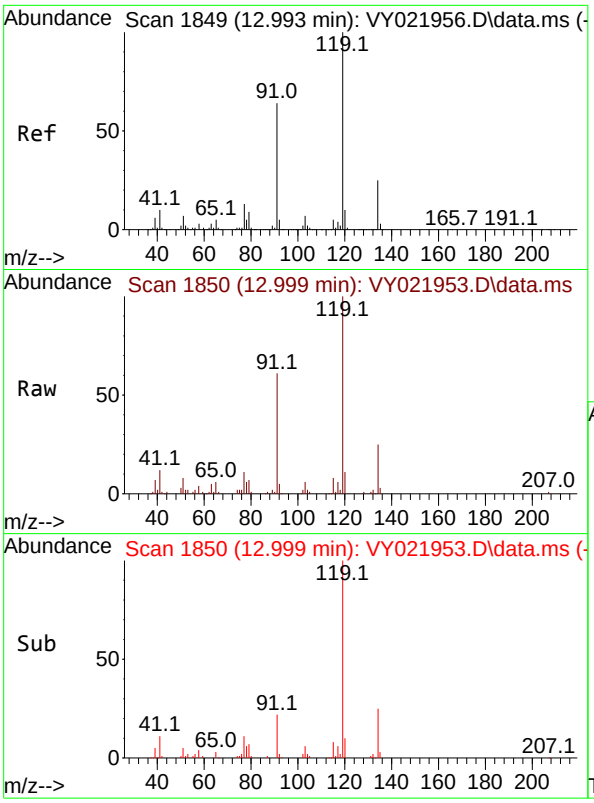


#82
4-Chlorotoluene
Concen: 4.809 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 91 Resp: 47541

Ion	Ratio	Lower	Upper
91	100		
126	36.9	17.9	53.8

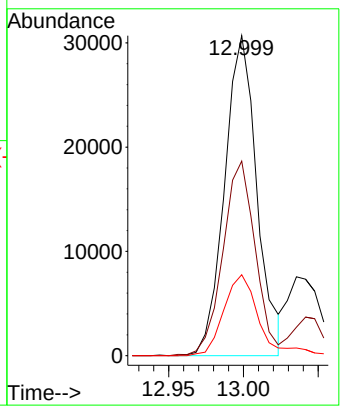




#83
tert-Butylbenzene
Concen: 4.550 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:119 Resp: 4617

Ion	Ratio	Lower	Upper
119	100		
91	60.7	30.3	90.9
134	27.5	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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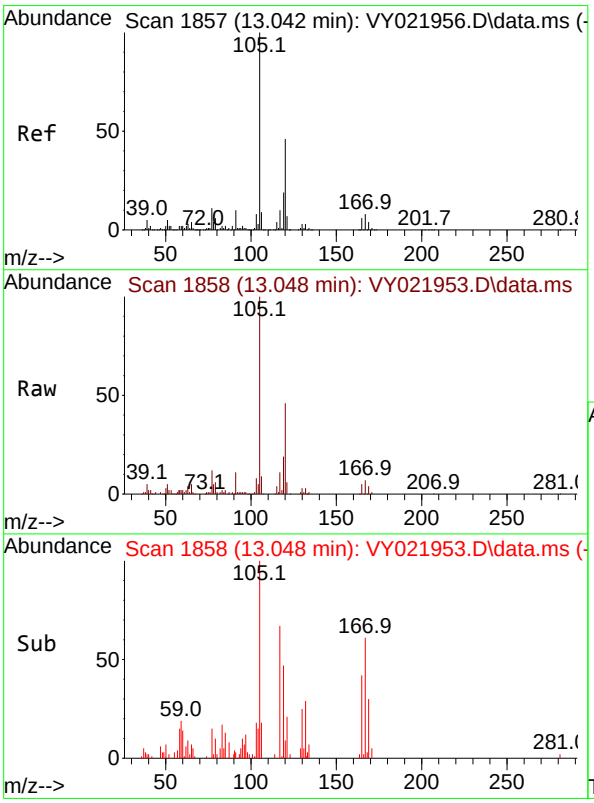
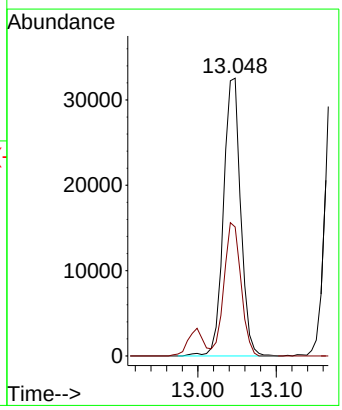
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

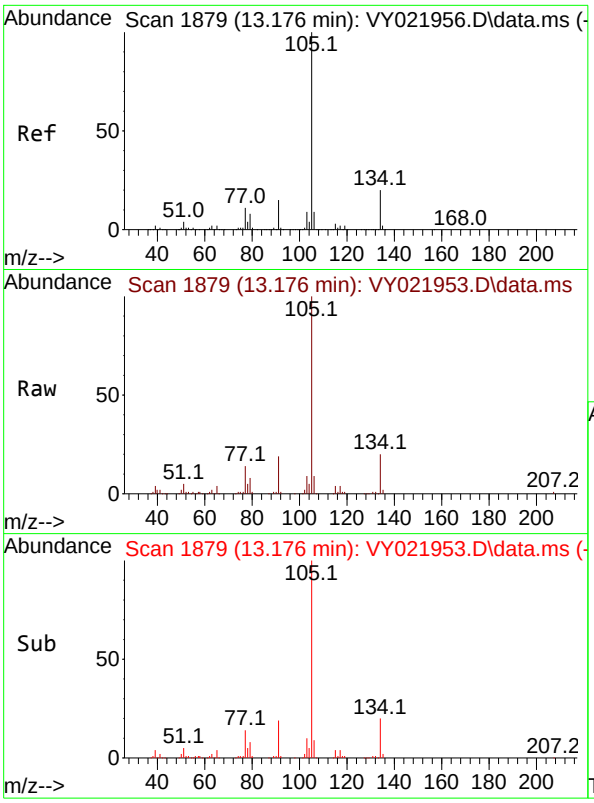


#84
1,2,4-Trimethylbenzene
Concen: 4.387 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:105 Resp: 49642

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.4	70.0

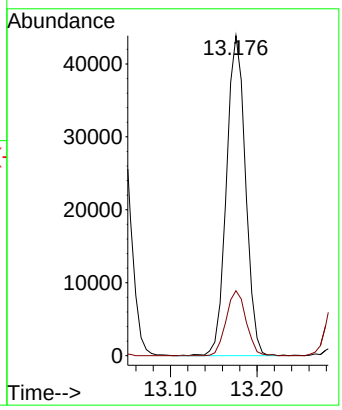




#85
sec-Butylbenzene
Concen: 4.504 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:105 Resp: 6687

Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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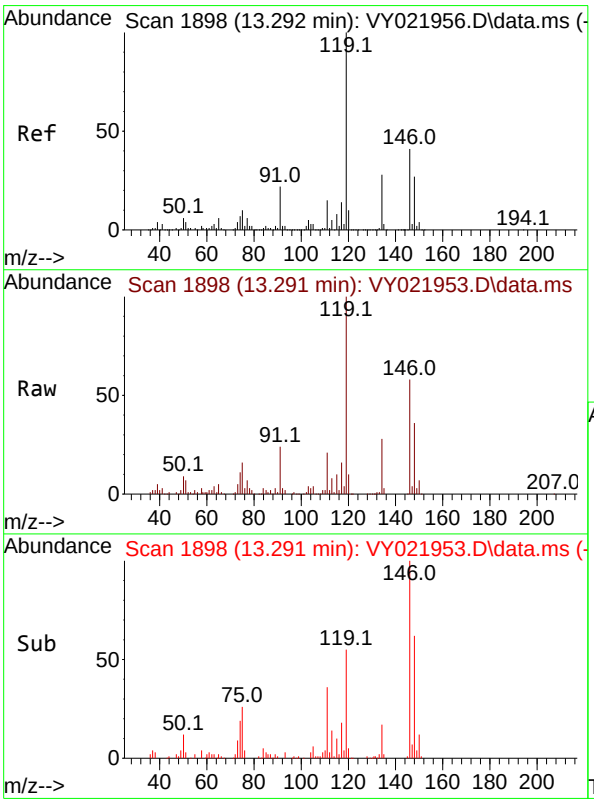
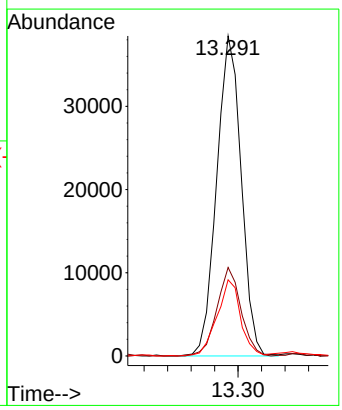
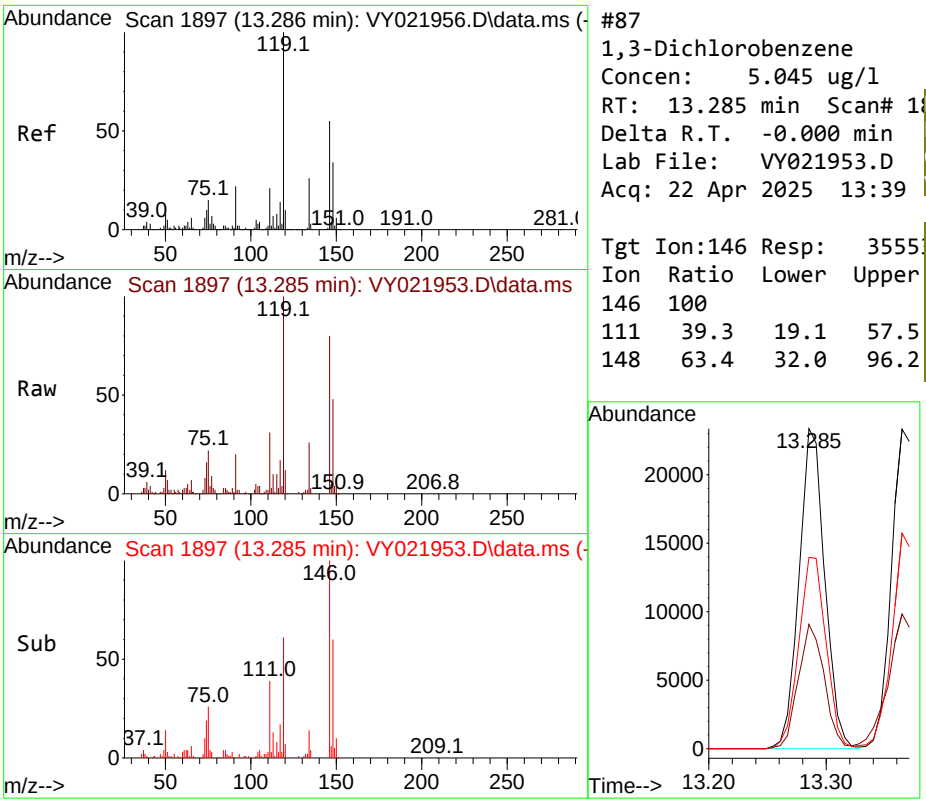


#86
p-Isopropyltoluene
Concen: 4.430 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:119 Resp: 55850

Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.6	40.7
91	22.8	11.0	33.0





#87
1,3-Dichlorobenzene
Concen: 5.045 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:146 Resp: 3555

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.5
148	63.4	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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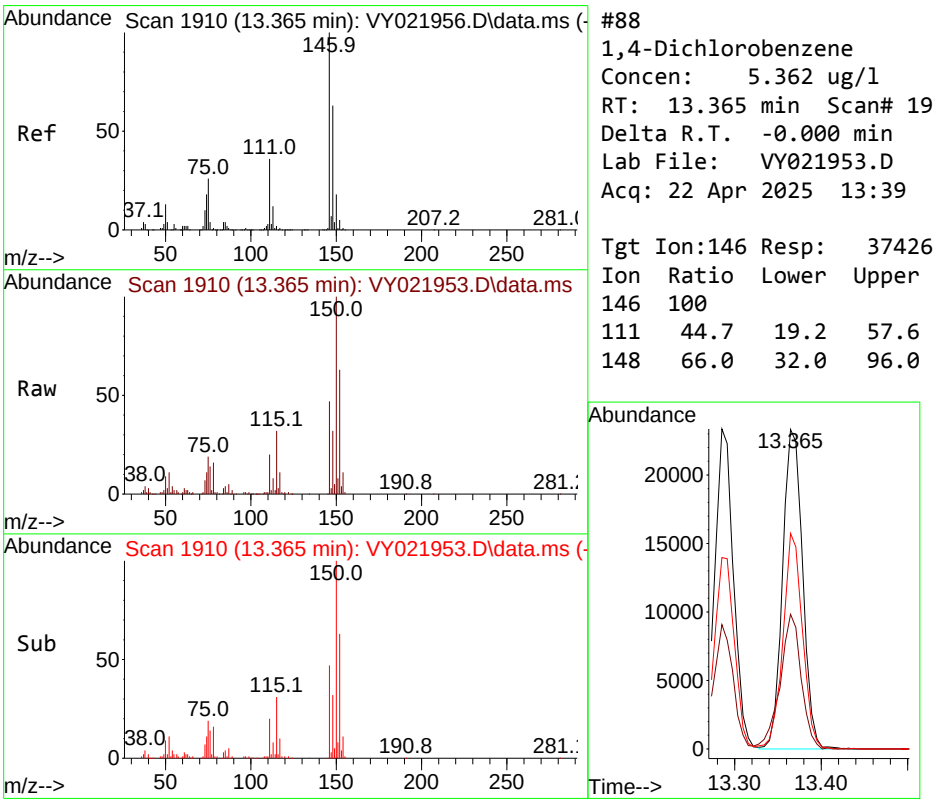
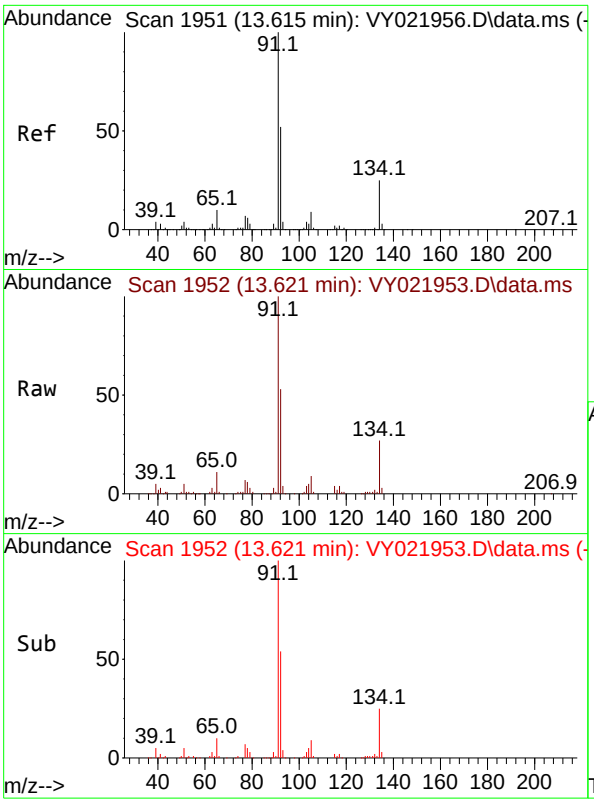


#88
1,4-Dichlorobenzene
Concen: 5.362 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:146 Resp: 37426

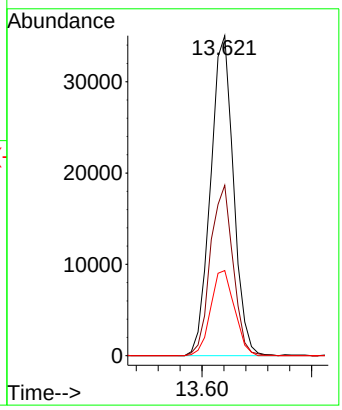
Ion	Ratio	Lower	Upper
146	100		
111	44.7	19.2	57.6
148	66.0	32.0	96.0



#89
n-Butylbenzene
Concen: 4.518 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 91 Resp: 5091

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.5	79.5
134	27.7	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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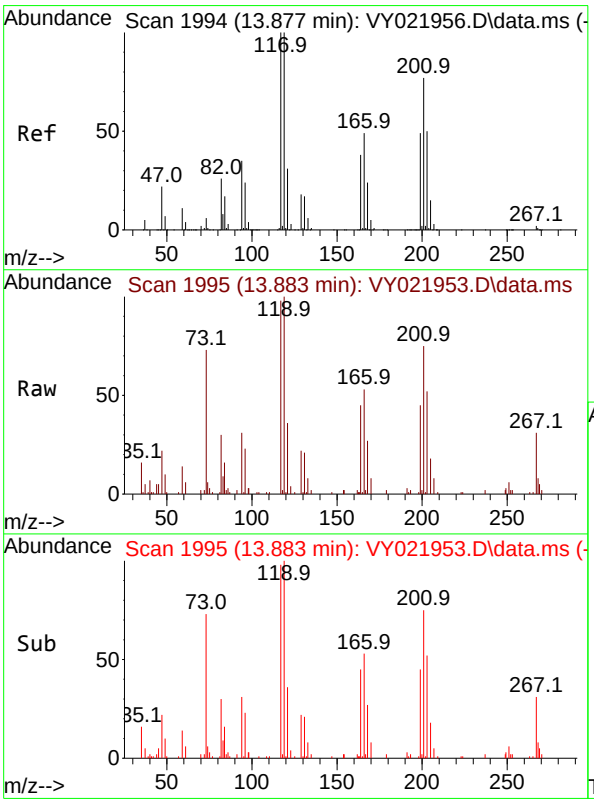
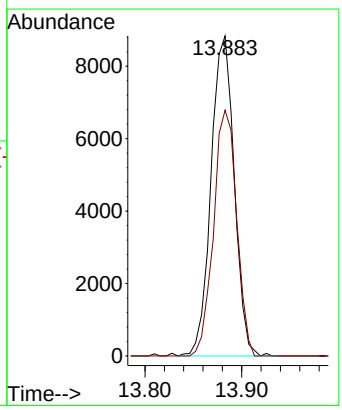
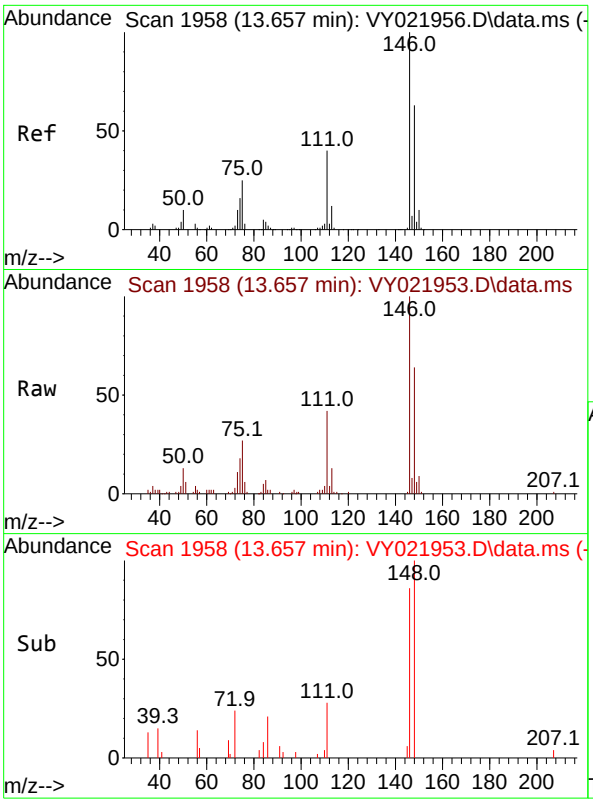


#90
Hexachloroethane
Concen: 5.308 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:117 Resp: 14703

Ion	Ratio	Lower	Upper
117	100		
201	76.1	38.7	116.1

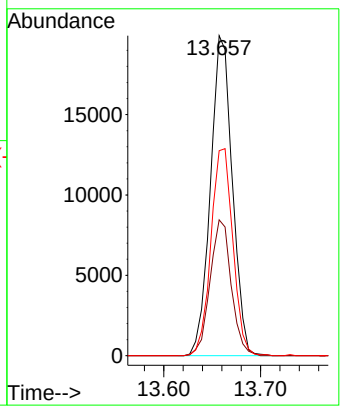




#91
1,2-Dichlorobenzene
Concen: 5.092 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:146 Resp: 3129

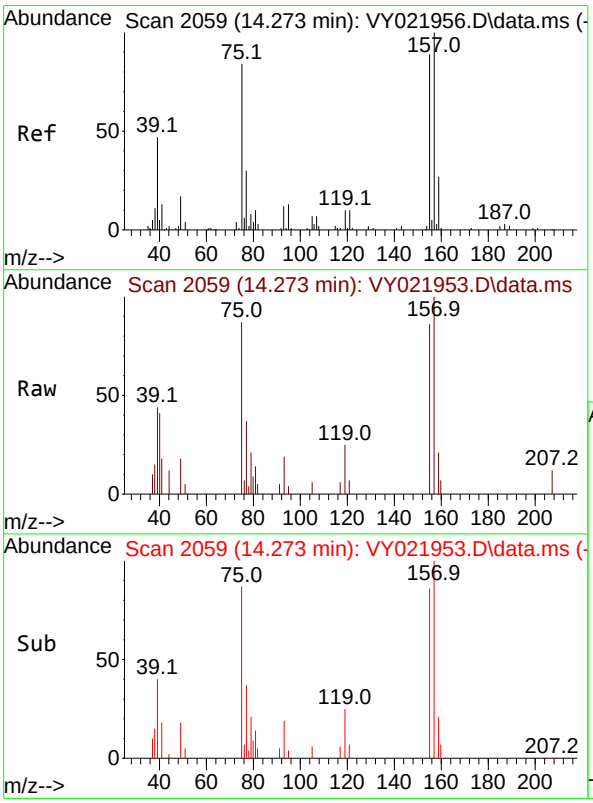
Ion	Ratio	Lower	Upper
146	100		
111	41.1	19.7	59.1
148	64.9	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

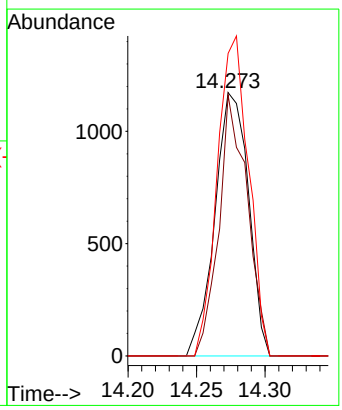
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

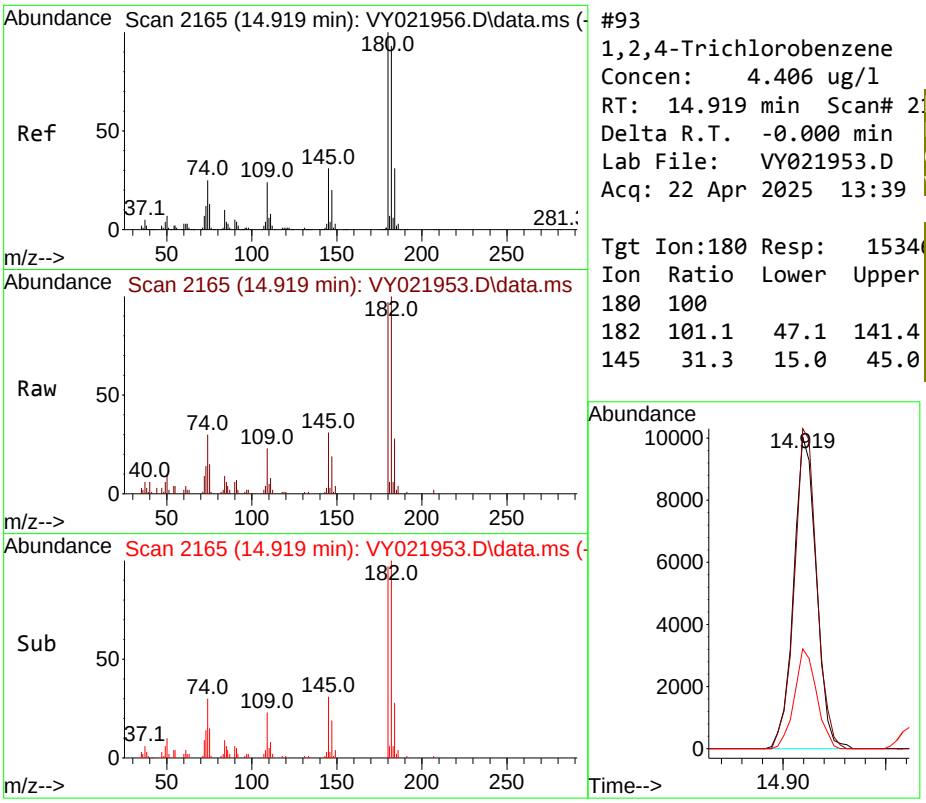


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.430 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion: 75 Resp: 2000

Ion	Ratio	Lower	Upper
75	100		
155	83.8	50.7	152.3
157	113.1	62.6	187.8





#93
1,2,4-Trichlorobenzene
Concen: 4.406 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

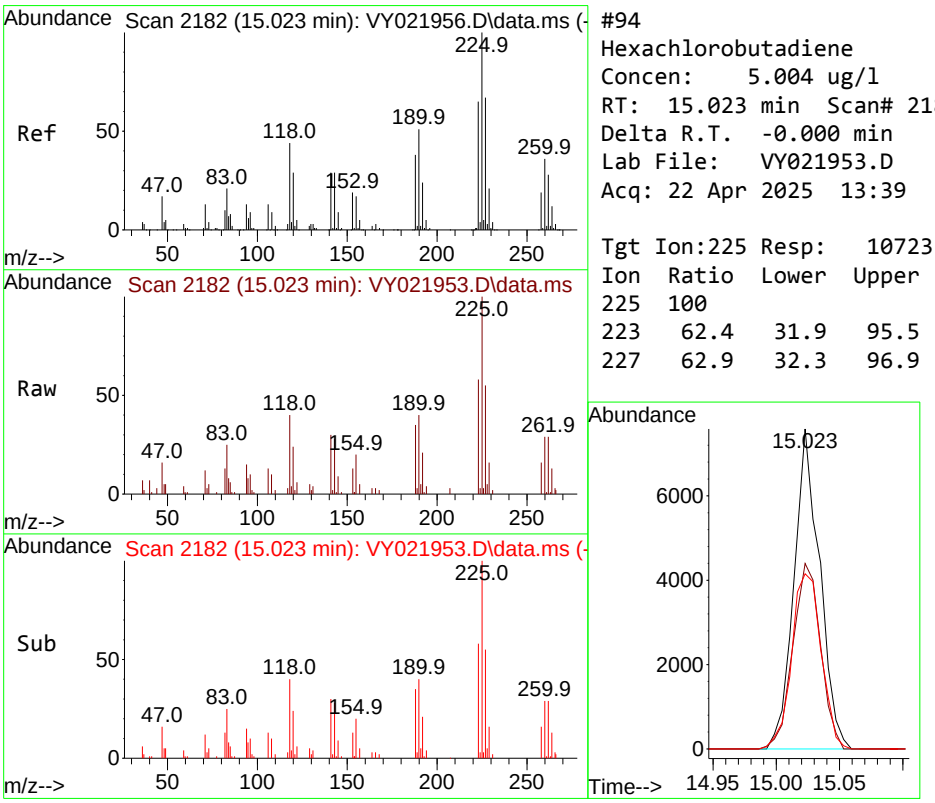
Tgt Ion:180 Resp: 1534

Ion	Ratio	Lower	Upper
180	100		
182	101.1	47.1	141.4
145	31.3	15.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

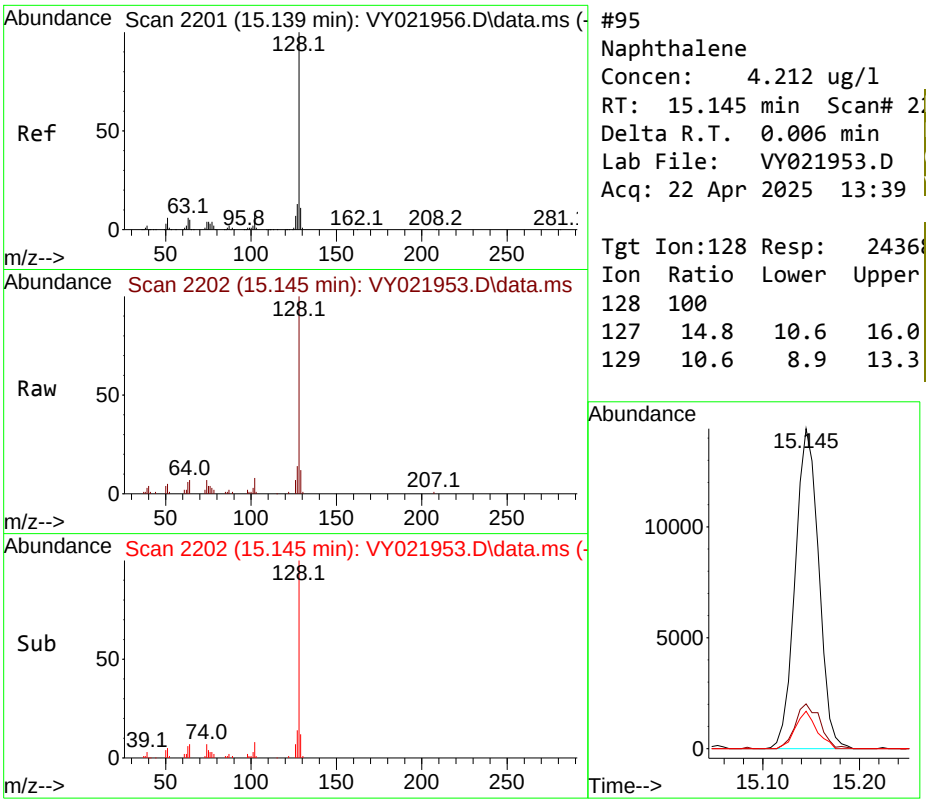
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#94
Hexachlorobutadiene
Concen: 5.004 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:225 Resp: 10723

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.9	95.5
227	62.9	32.3	96.9



#95
Naphthalene
Concen: 4.212 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

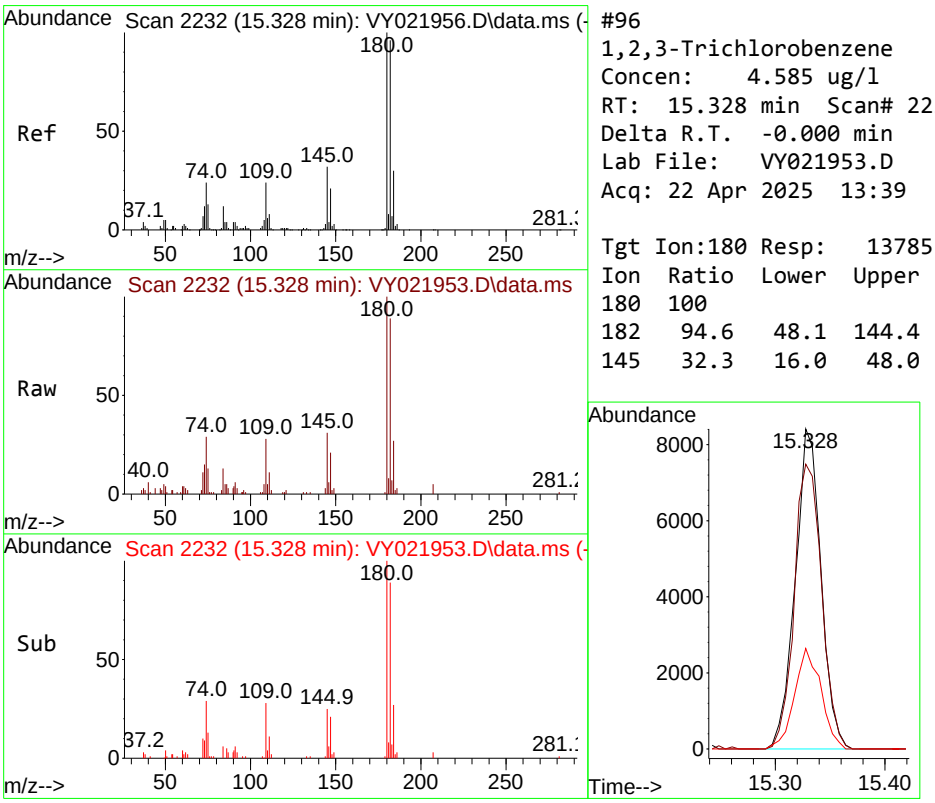
Tgt Ion:128 Resp: 2436

Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.6	16.0
129	10.6	8.9	13.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.585 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY021953.D
Acq: 22 Apr 2025 13:39

Tgt Ion:180 Resp: 13785

Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.1	144.4
145	32.3	16.0	48.0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	292096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	462235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	418471	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	217358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	27856	10.325	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.640%#		
35) Dibromofluoromethane	7.634	113	31560	10.335	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.660%#		
50) Toluene-d8	10.103	98	116480	10.118	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.240%#		
62) 4-Bromofluorobenzene	12.407	95	39704	10.244	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	20.480%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	27882	11.202	ug/l	95
3) Chloromethane	2.068	50	39169	11.052	ug/l	91
4) Vinyl Chloride	2.202	62	48475	11.131	ug/l	98
5) Bromomethane	2.598	94	40742	10.859	ug/l	98
6) Chloroethane	2.732	64	32122	10.830	ug/l	95
7) Trichlorofluoromethane	3.055	101	62819	10.939	ug/l	94
8) Diethyl Ether	3.452	74	15517	10.381	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	34542	11.088	ug/l	99
10) Methyl Iodide	4.000	142	36146	10.021	ug/l	99
11) Tert butyl alcohol	4.866	59	7087	47.846	ug/l	95
12) 1,1-Dichloroethene	3.787	96	31073	10.701	ug/l	94
13) Acrolein	3.647	56	13091	49.243	ug/l	96
14) Allyl chloride	4.378	41	35457	10.487	ug/l	97
15) Acrylonitrile	5.055	53	26314	48.088	ug/l	96
16) Acetone	3.872	43	24497	52.492	ug/l	99
17) Carbon Disulfide	4.104	76	101496	10.962	ug/l	96
18) Methyl Acetate	4.378	43	11687	9.273	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	62306	9.587	ug/l	96
20) Methylene Chloride	4.610	84	36539	10.710	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	33752	10.379	ug/l	97
22) Diisopropyl ether	6.012	45	75451	10.028	ug/l	94
23) Vinyl Acetate	5.957	43	199753	49.260	ug/l	99
24) 1,1-Dichloroethane	5.915	63	55067	10.558	ug/l	97
25) 2-Butanone	6.890	43	31349	50.973	ug/l	100
26) 2,2-Dichloropropane	6.884	77	48501	10.610	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	37281	10.253	ug/l	99
28) Bromochloromethane	7.238	49	21122	10.426	ug/l	99
29) Tetrahydrofuran	7.262	42	18883	47.274	ug/l	100
30) Chloroform	7.414	83	61088	10.559	ug/l	99
31) Cyclohexane	7.701	56	50083	11.229	ug/l #	96
32) 1,1,1-Trichloroethane	7.616	97	55163	10.540	ug/l	97
36) 1,1-Dichloropropene	7.835	75	43496	10.604	ug/l	98
37) Ethyl Acetate	6.982	43	14895m	10.248	ug/l	
38) Carbon Tetrachloride	7.817	117	52079	10.625	ug/l	100
39) Methylcyclohexane	9.109	83	52625	10.194	ug/l	95
40) Benzene	8.079	78	133010	10.373	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	7906m	9.813	ug/l		
42) 1,2-Dichloroethane	8.152	62	33939	10.690	ug/l		99
43) Isopropyl Acetate	8.195	43	27087	9.574	ug/l		98
44) Trichloroethene	8.865	130	37414	10.534	ug/l		91
45) 1,2-Dichloropropane	9.140	63	29327	10.342	ug/l		98
46) Dibromomethane	9.231	93	17848	10.055	ug/l		98
47) Bromodichloromethane	9.420	83	46552	10.498	ug/l		97
48) Methyl methacrylate	9.219	41	12035	9.202	ug/l		97
49) 1,4-Dioxane	9.231	88	3781	199.843	ug/l	#	96
51) 4-Methyl-2-Pentanone	9.999	43	68951	46.490	ug/l		98
52) Toluene	10.170	92	84571	10.189	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	37699	9.911	ug/l		94
54) cis-1,3-Dichloropropene	9.859	75	45133	9.982	ug/l		95
55) 1,1,2-Trichloroethane	10.572	97	24166	10.192	ug/l		98
56) Ethyl methacrylate	10.438	69	23924	8.823	ug/l		98
57) 1,3-Dichloropropane	10.719	76	38787	10.204	ug/l		97
58) 2-Chloroethyl Vinyl ether	9.707	63	55900	42.164	ug/l		98
59) 2-Hexanone	10.761	43	44419	45.407	ug/l		97
60) Dibromochloromethane	10.914	129	32807	9.994	ug/l		99
61) 1,2-Dibromoethane	11.011	107	22427	10.019	ug/l		99
64) Tetrachloroethene	10.646	164	43205	10.944	ug/l		99
65) Chlorobenzene	11.444	112	96442	10.306	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	34237	10.392	ug/l		99
67) Ethyl Benzene	11.517	91	153977	10.058	ug/l		96
68) m/p-Xylenes	11.627	106	120544	19.789	ug/l		100
69) o-Xylene	11.956	106	53458	9.521	ug/l		98
70) Styrene	11.969	104	90382	9.588	ug/l		99
71) Bromoform	12.133	173	18480	9.648	ug/l	#	99
73) Isopropylbenzene	12.255	105	144167	9.928	ug/l		100
74) N-amyl acetate	12.072	43	23058	9.242	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	24413	9.971	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	19328m	10.092	ug/l		
77) Bromobenzene	12.529	156	36127	9.845	ug/l		97
78) n-propylbenzene	12.596	91	173723	10.045	ug/l		98
79) 2-Chlorotoluene	12.682	91	101855	10.127	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	119871	10.018	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	7556	9.773	ug/l		98
82) 4-Chlorotoluene	12.779	91	108734	10.400	ug/l		100
83) tert-Butylbenzene	12.999	119	103541	9.649	ug/l		96
84) 1,2,4-Trimethylbenzene	13.042	105	118119	9.870	ug/l		100
85) sec-Butylbenzene	13.176	105	161907	10.311	ug/l		100
86) p-Isopropyltoluene	13.291	119	131120	9.834	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	77538	10.404	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	75043	10.167	ug/l		98
89) n-Butylbenzene	13.621	91	121297	10.177	ug/l		99
90) Hexachloroethane	13.877	117	30881	10.541	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	66159	10.178	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3955	10.153	ug/l		83
93) 1,2,4-Trichlorobenzene	14.919	180	34793	9.446	ug/l		98
94) Hexachlorobutadiene	15.023	225	23698	10.457	ug/l		98
95) Naphthalene	15.145	128	48366	7.904	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	29276	9.207	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

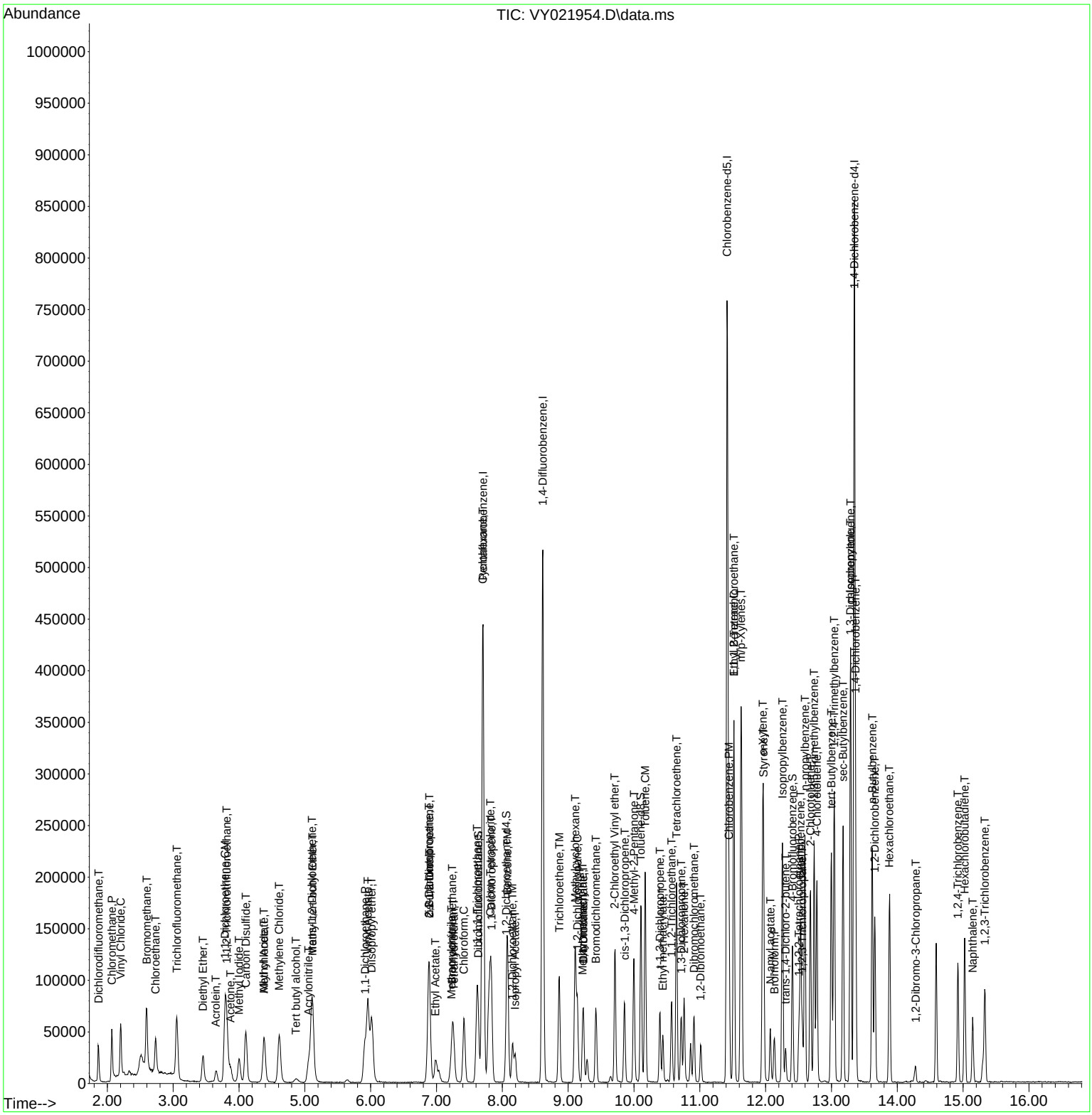
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

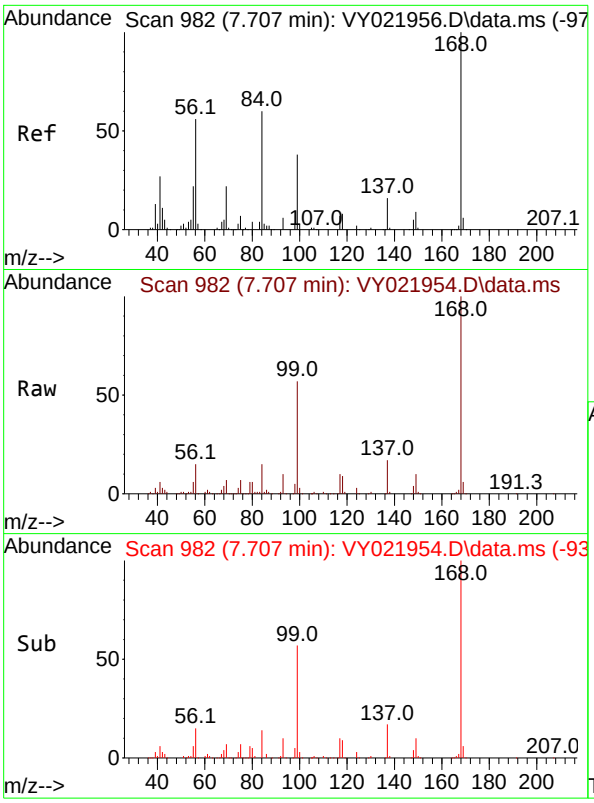
Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

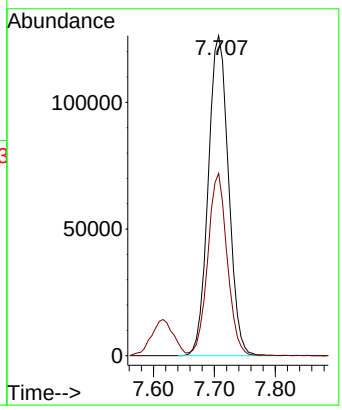




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:168 Resp: 29209

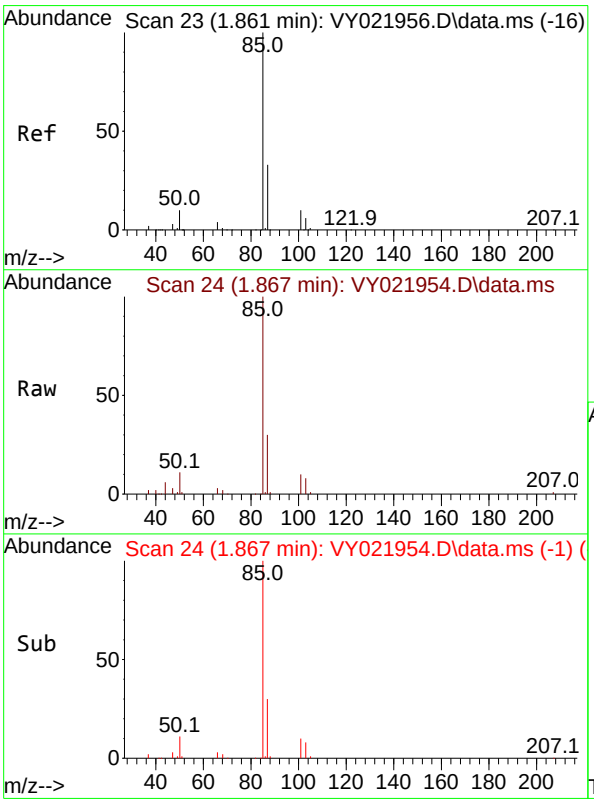
Ion	Ratio	Lower	Upper
168	100		
99	56.9	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

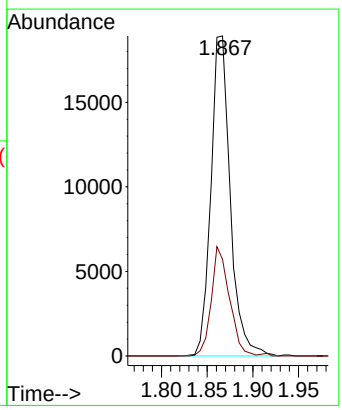
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

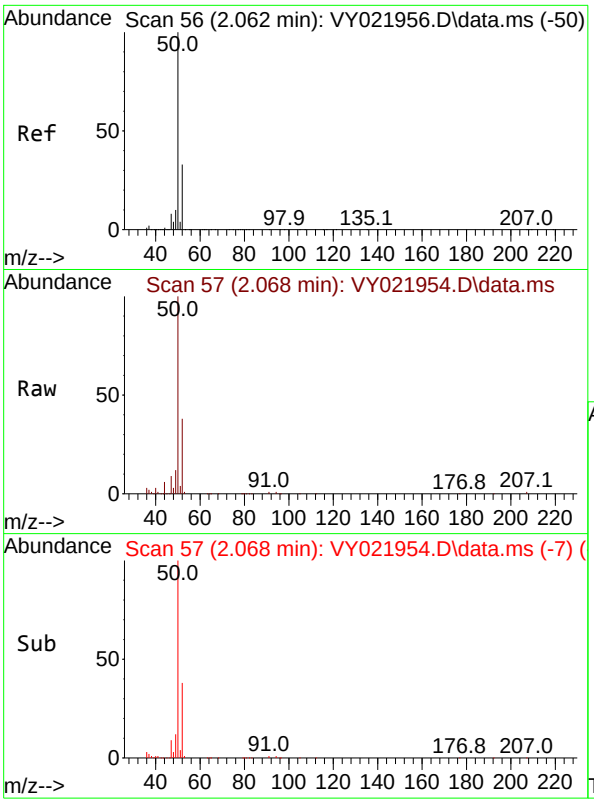


#2
Dichlorodifluoromethane
Concen: 11.202 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 85 Resp: 27882

Ion	Ratio	Lower	Upper
85	100		
87	30.2	16.6	49.7

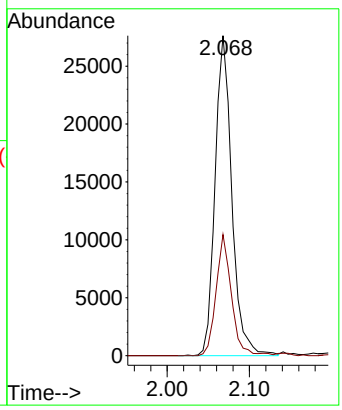




#3
Chloromethane
Concen: 11.052 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 50 Resp: 3916

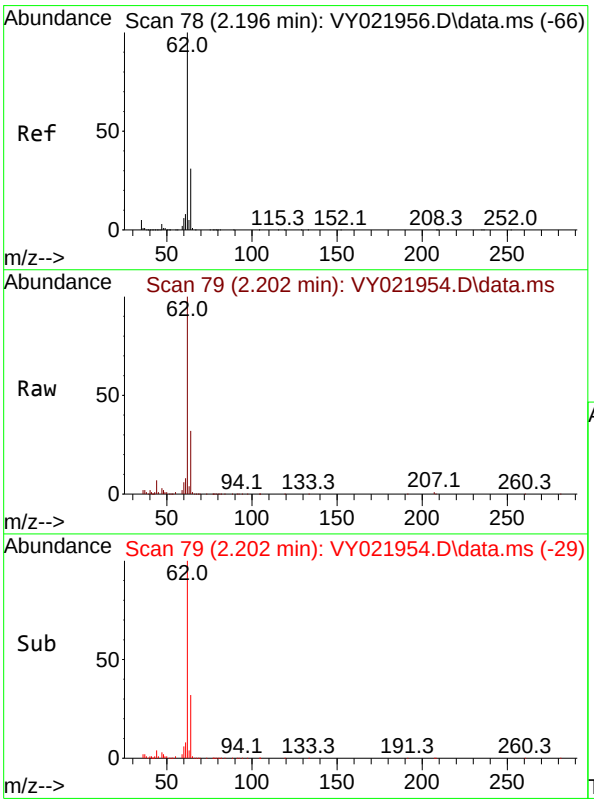
Ion	Ratio	Lower	Upper
50	100		
52	37.8	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

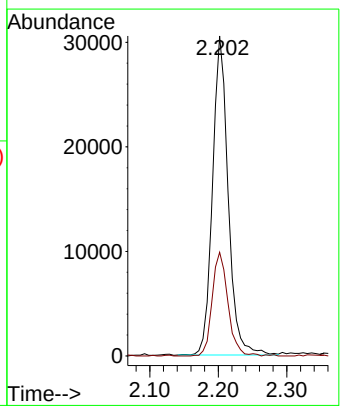
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

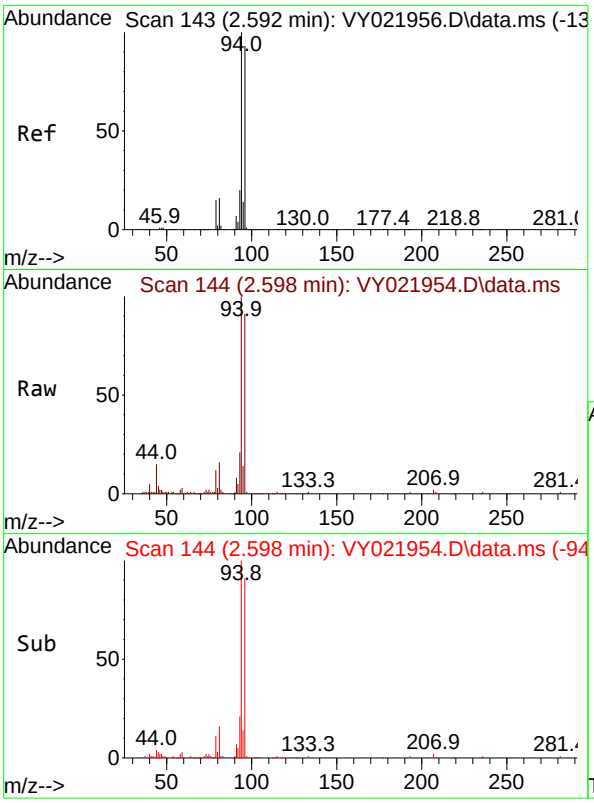


#4
Vinyl Chloride
Concen: 11.131 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 62 Resp: 48475

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.1	37.7

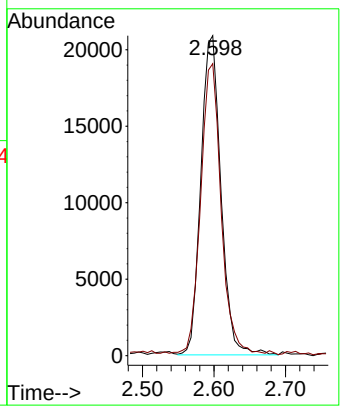




#5
Bromomethane
Concen: 10.859 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 94 Resp: 4074

Ion	Ratio	Lower	Upper
94	100		
96	91.1	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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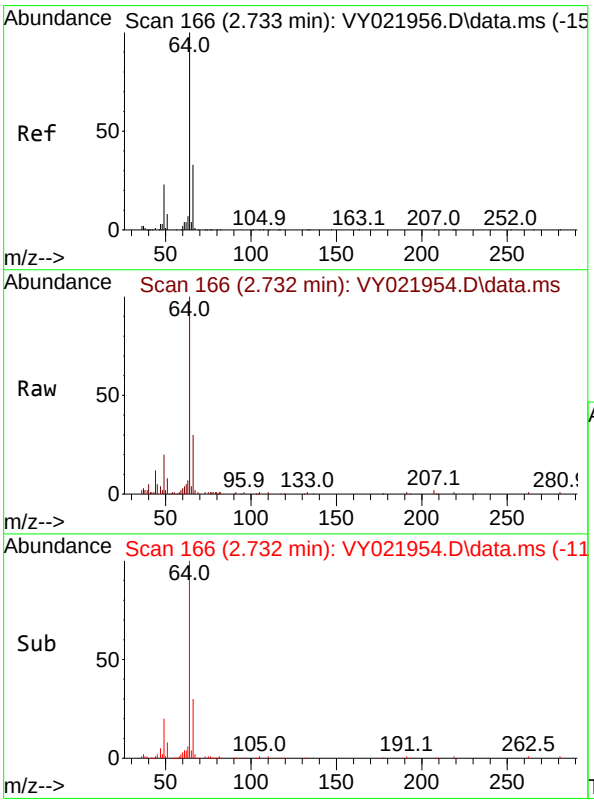
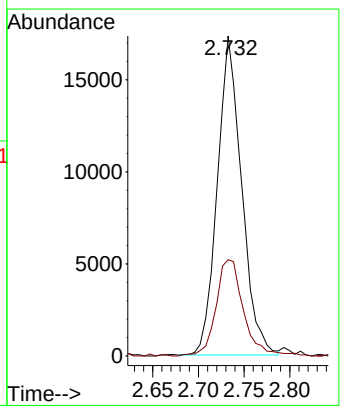
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

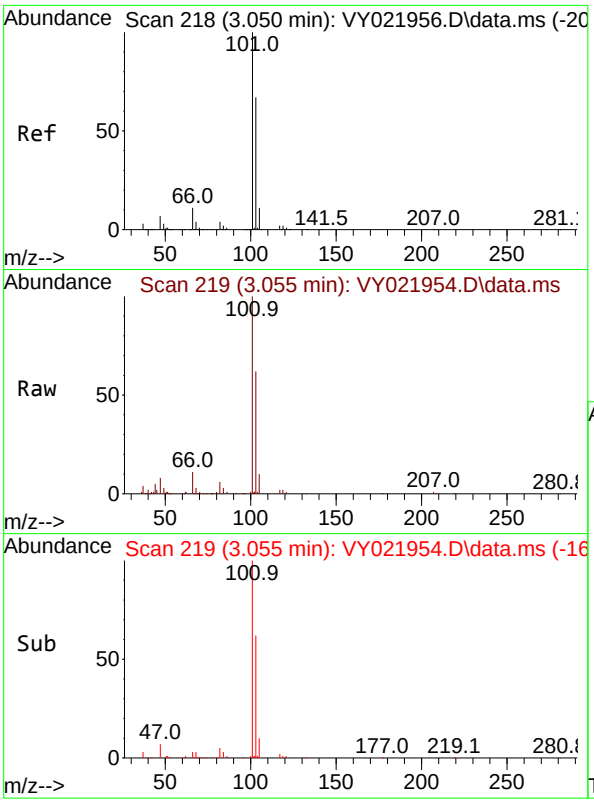


#6
Chloroethane
Concen: 10.830 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 64 Resp: 32122

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.2	39.4

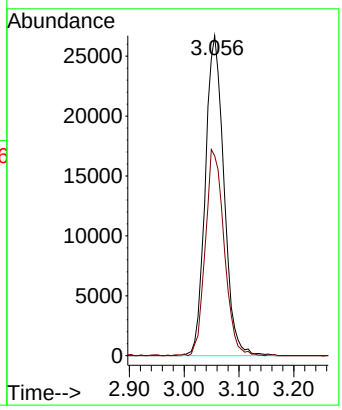




#7
Trichlorofluoromethane
Concen: 10.939 ug/l
RT: 3.055 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:101 Resp: 6281

Ion	Ratio	Lower	Upper
101	100		
103	62.4	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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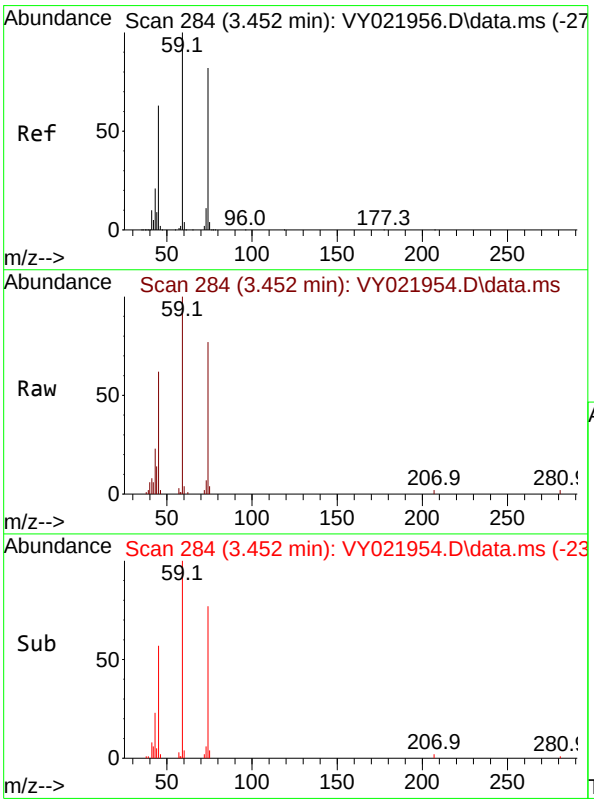
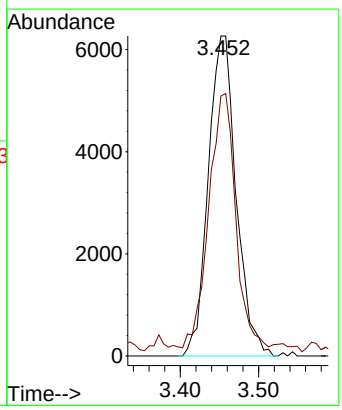
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

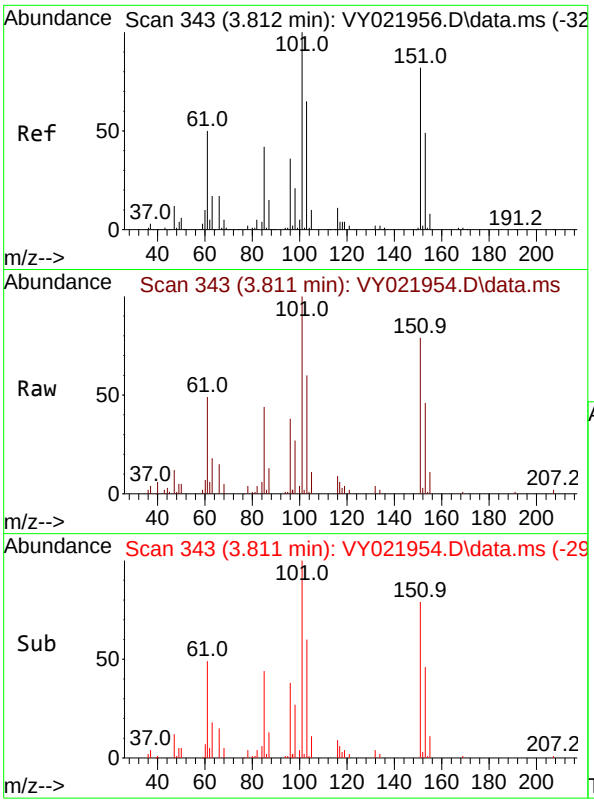


#8
Diethyl Ether
Concen: 10.381 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 74 Resp: 15517

Ion	Ratio	Lower	Upper
74	100		
45	76.1	39.1	117.5

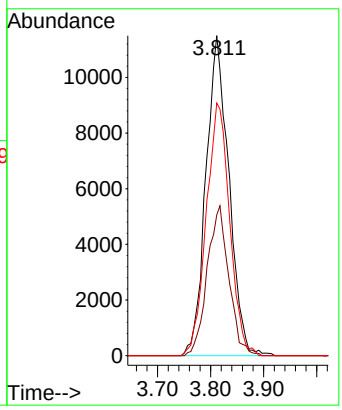




#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.088 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:101 Resp: 3454

Ion	Ratio	Lower	Upper
101	100		
85	44.3	34.6	51.8
151	80.6	63.7	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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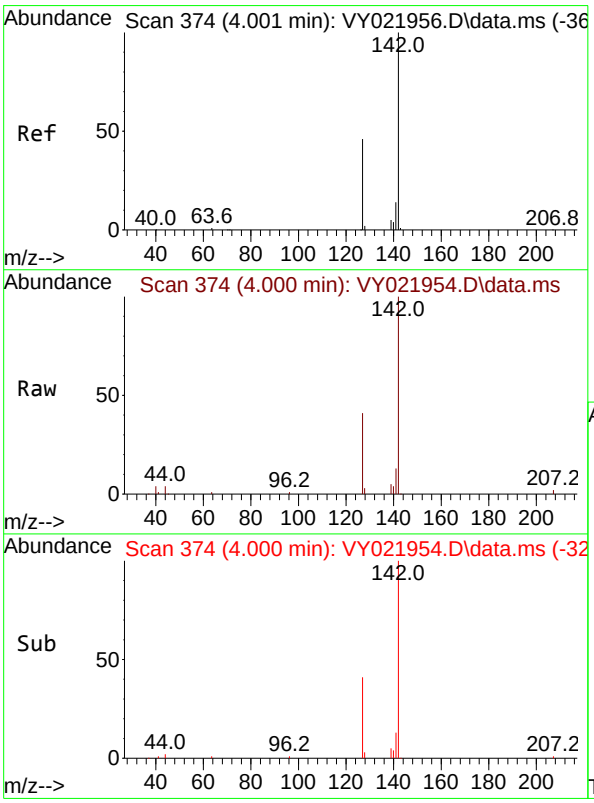
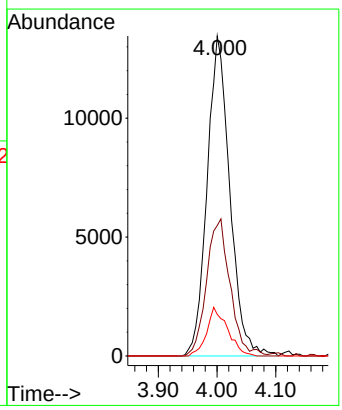
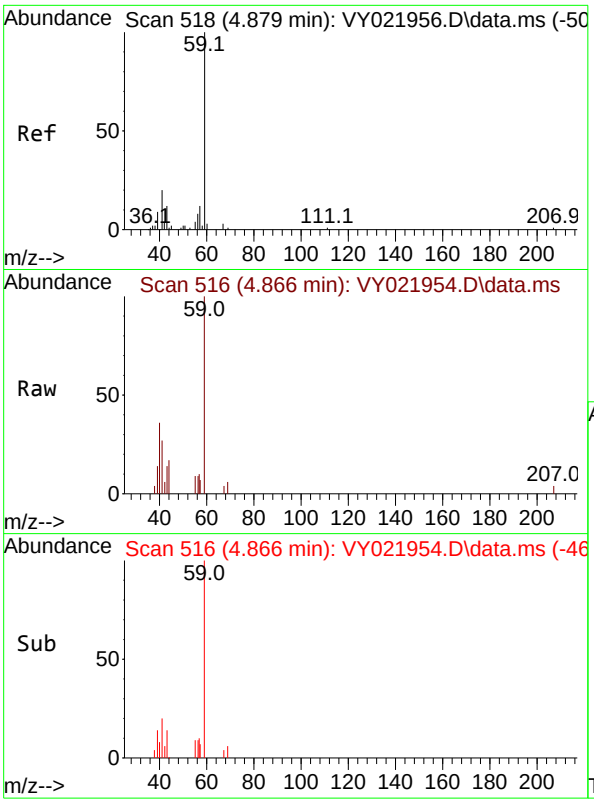


#10
Methyl Iodide
Concen: 10.021 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:142 Resp: 36146

Ion	Ratio	Lower	Upper
142	100		
127	44.3	36.2	54.2
141	14.0	11.7	17.5

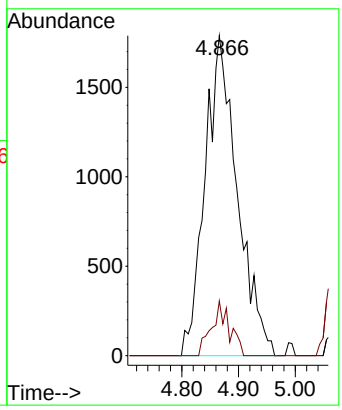




#11
Tert butyl alcohol
Concen: 47.846 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 59 Resp: 708

Ion	Ratio	Lower	Upper
59	100		
57	9.5	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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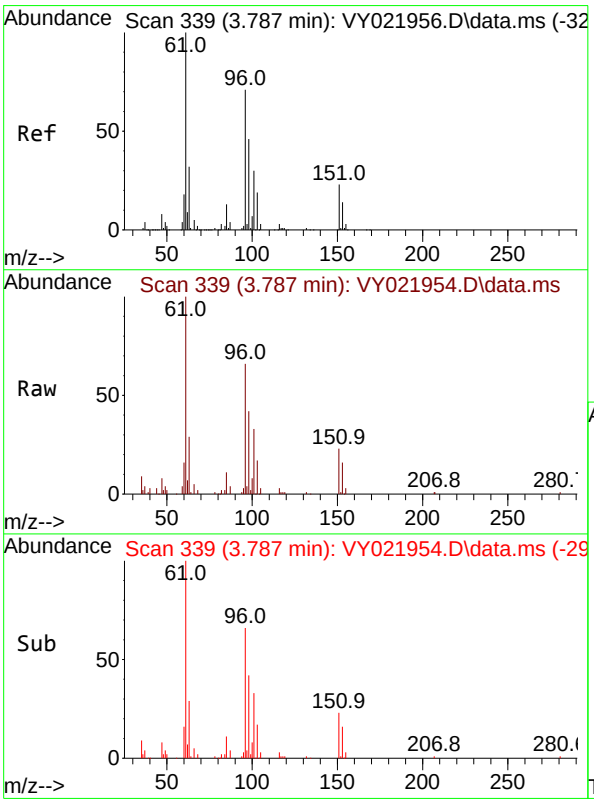
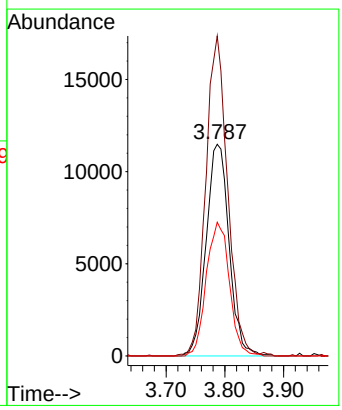
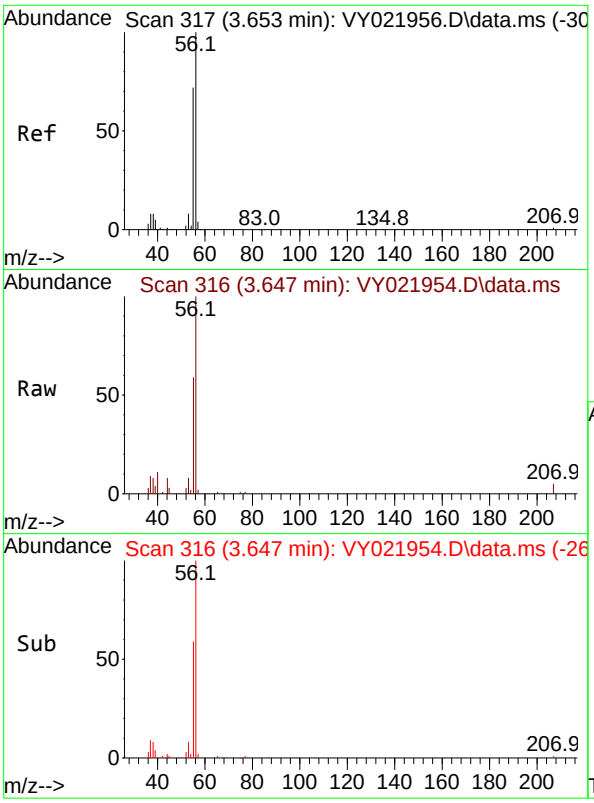


#12
1,1-Dichloroethene
Concen: 10.701 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 96 Resp: 31073

Ion	Ratio	Lower	Upper
96	100		
61	151.2	113.0	169.4
98	63.2	51.4	77.2

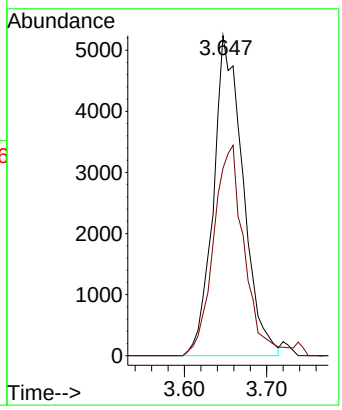




#13
Acrolein
Concen: 49.243 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 56 Resp: 1309

Ion	Ratio	Lower	Upper
56	100		
55	68.5	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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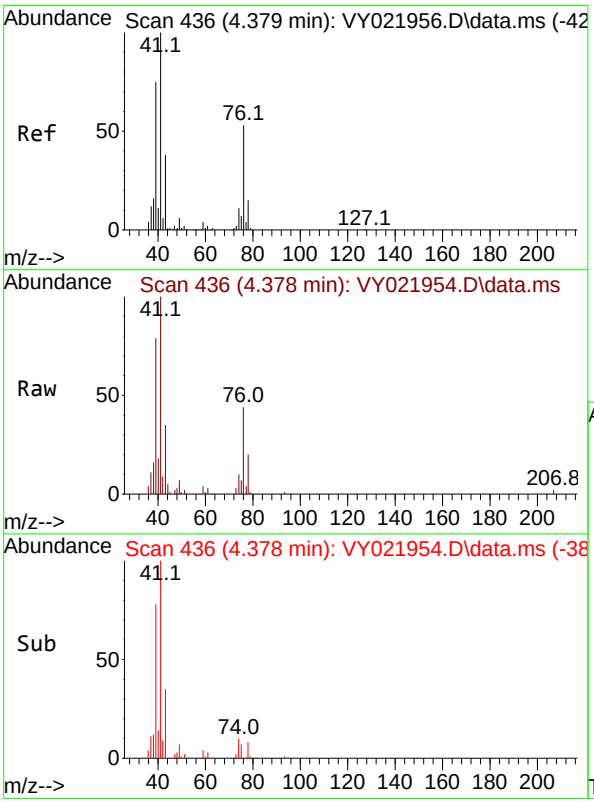
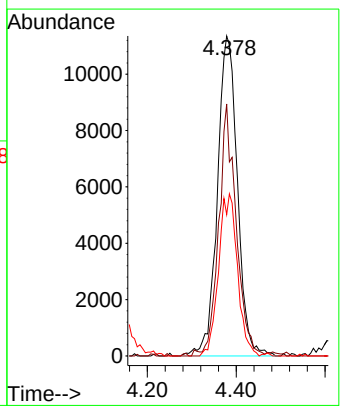
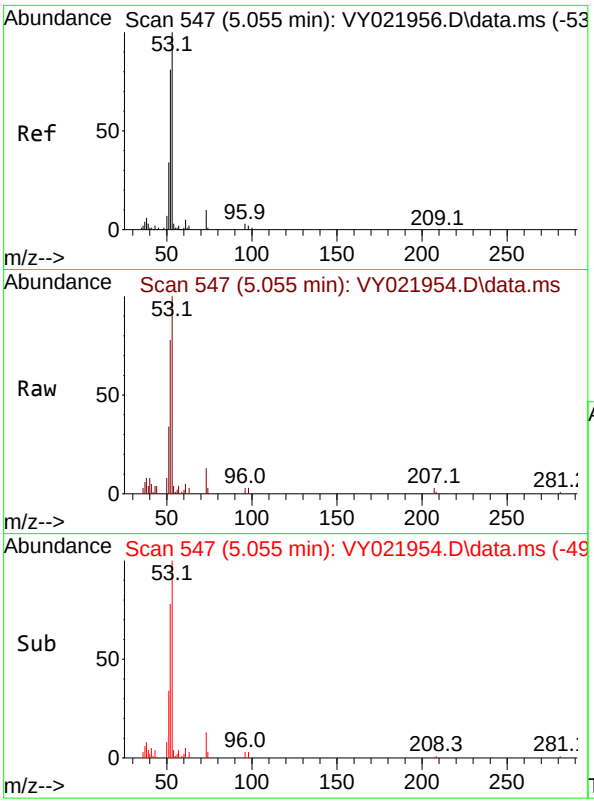


#14
Allyl chloride
Concen: 10.487 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 41 Resp: 35457

Ion	Ratio	Lower	Upper
41	100		
39	68.6	57.2	85.8
76	47.6	39.7	59.5

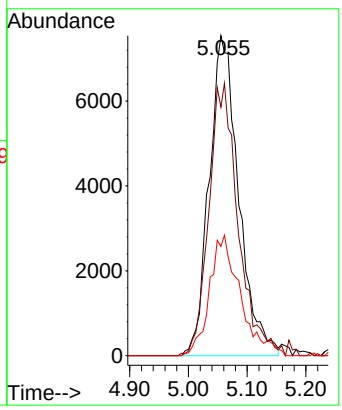




#15
Acrylonitrile
Concen: 48.088 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 53 Resp: 2631

Ion	Ratio	Lower	Upper
53	100		
52	84.1	65.0	97.6
51	39.3	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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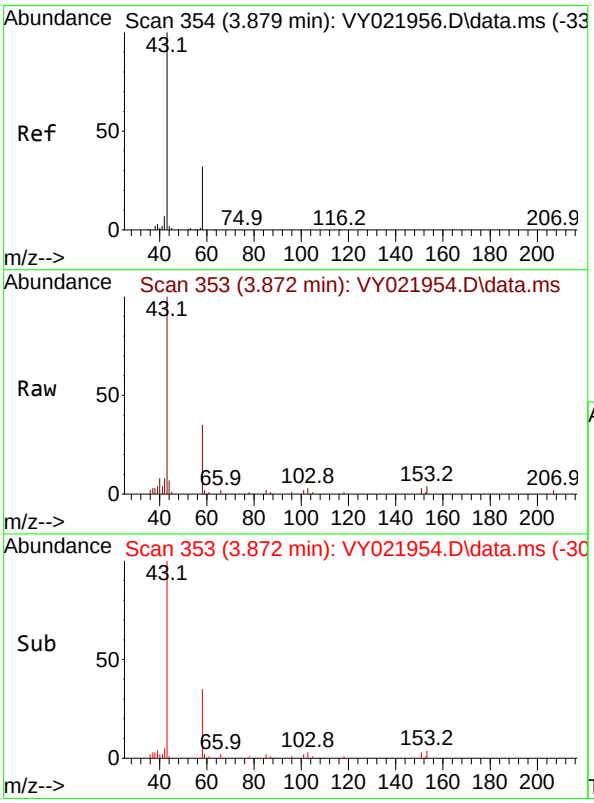
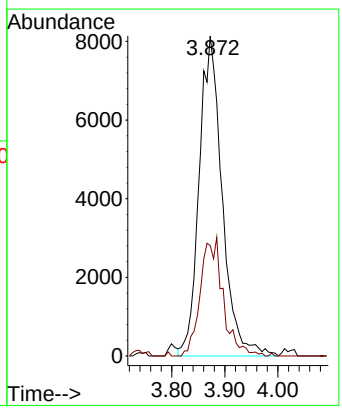
Supervised By :Mahesh Dadoda 04/23/2025

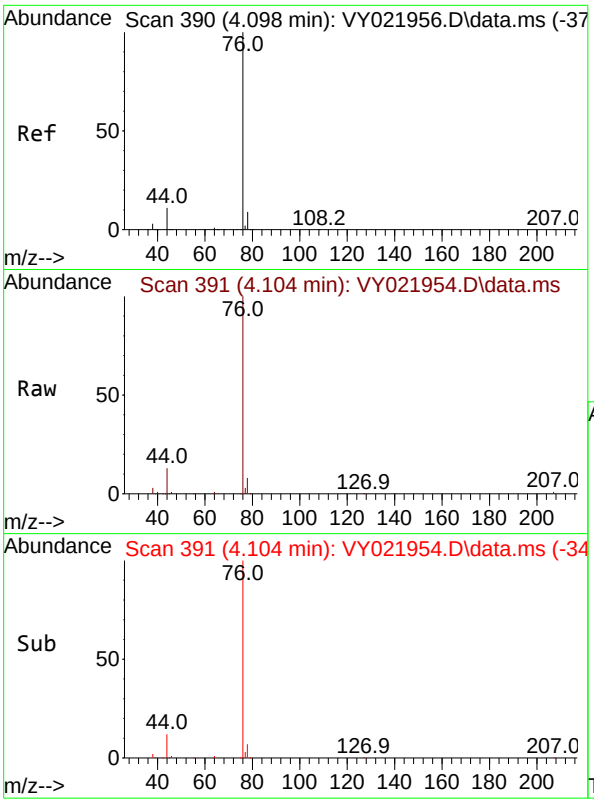


#16
Acetone
Concen: 52.492 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.007 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 24497

Ion	Ratio	Lower	Upper
43	100		
58	34.5	27.0	40.4

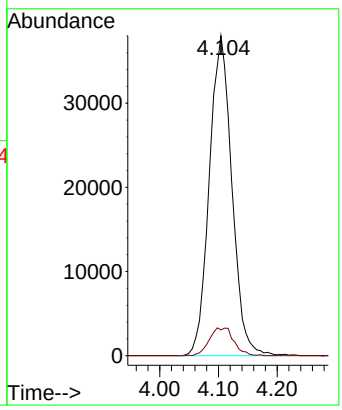




#17
Carbon Disulfide
Concen: 10.962 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 76 Resp: 10149

Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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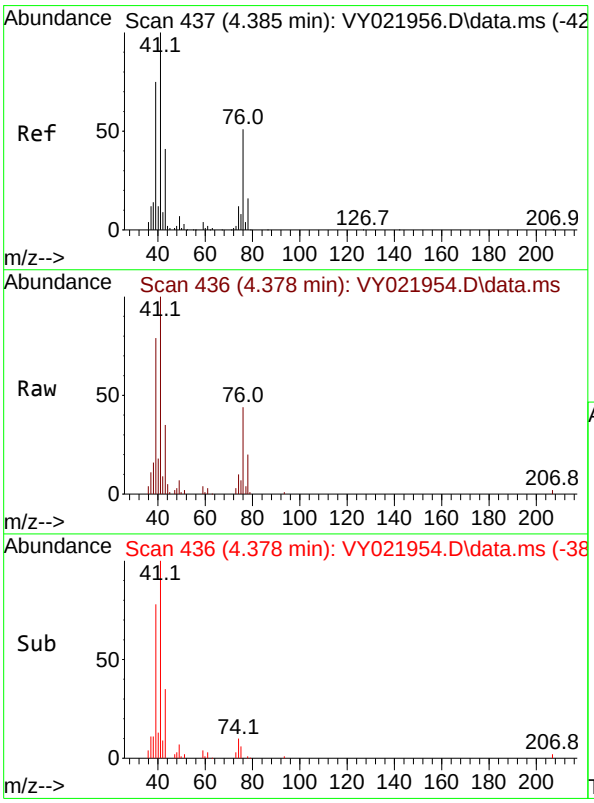
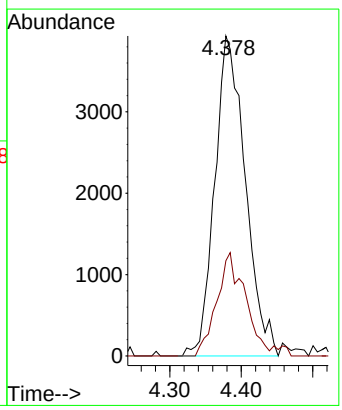
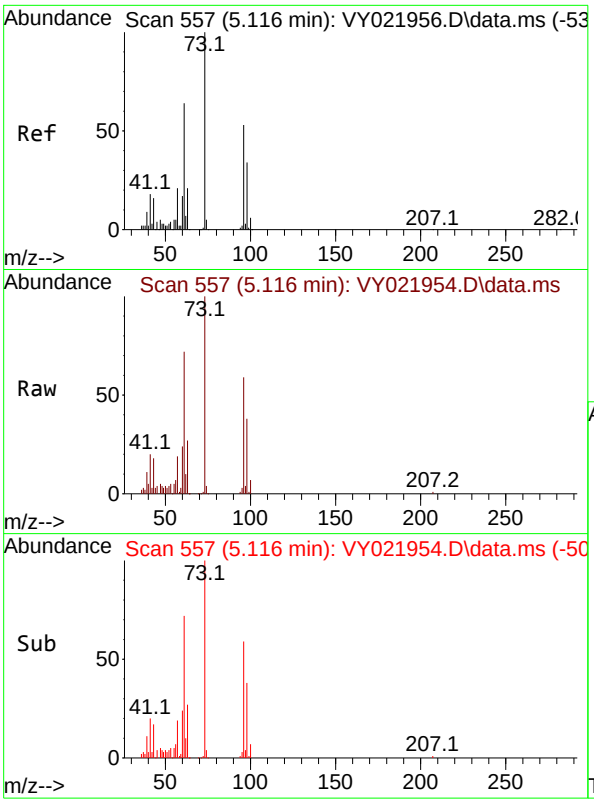


#18
Methyl Acetate
Concen: 9.273 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 11687

Ion	Ratio	Lower	Upper
43	100		
74	29.9	24.2	36.4

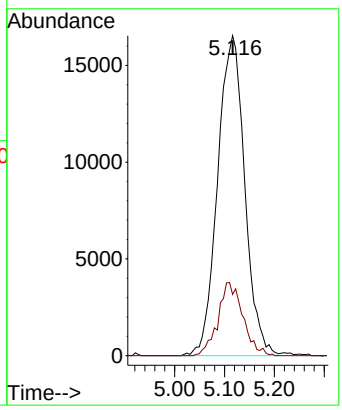




#19
Methyl tert-butyl Ether
Concen: 9.587 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 73 Resp: 6230

Ion	Ratio	Lower	Upper
73	100		
57	19.2	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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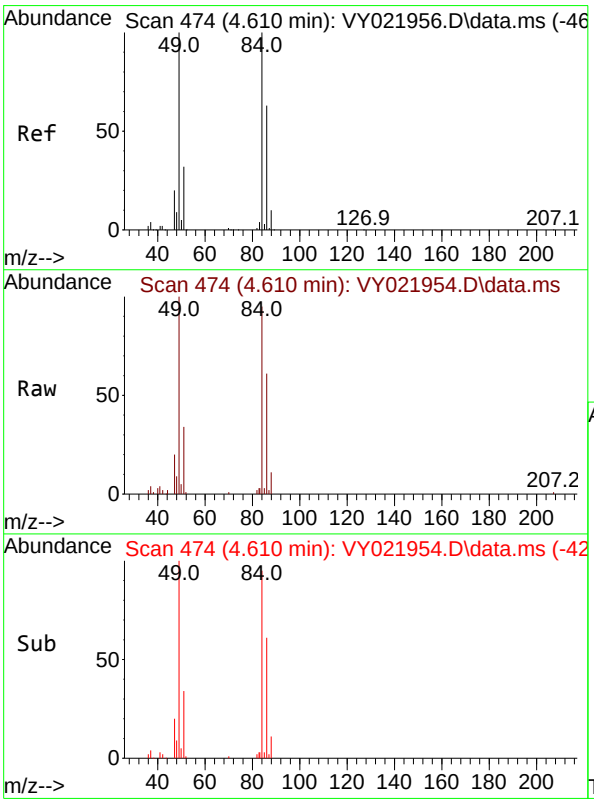
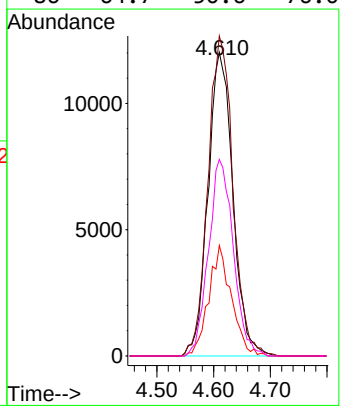
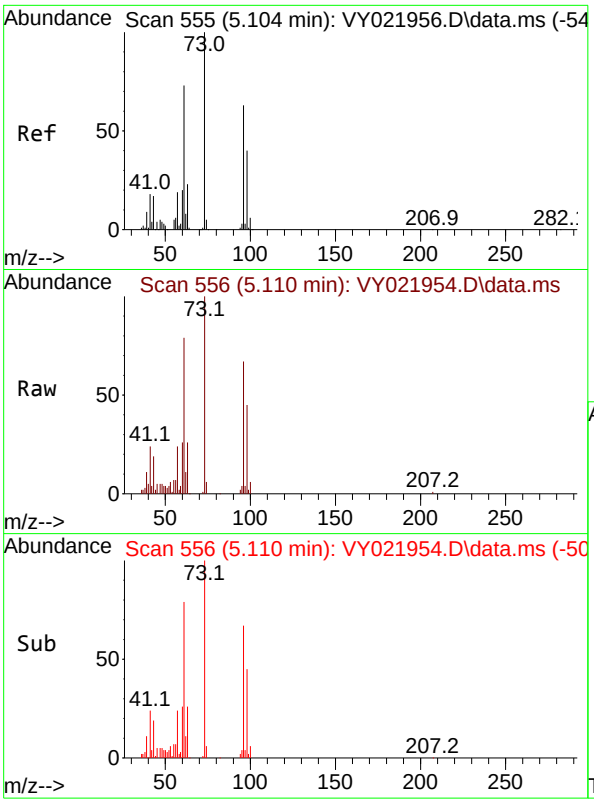


#20
Methylene Chloride
Concen: 10.710 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 84 Resp: 36539

Ion	Ratio	Lower	Upper
84	100		
49	105.4	79.9	119.9
51	36.3	25.4	38.0
86	64.7	50.6	76.0

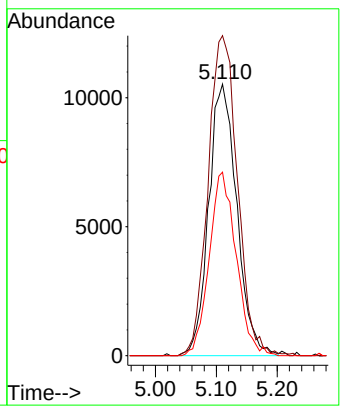




#21
trans-1,2-Dichloroethene
Concen: 10.379 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 96 Resp: 3375

Ion	Ratio	Lower	Upper
96	100		
61	117.9	92.6	138.8
98	67.6	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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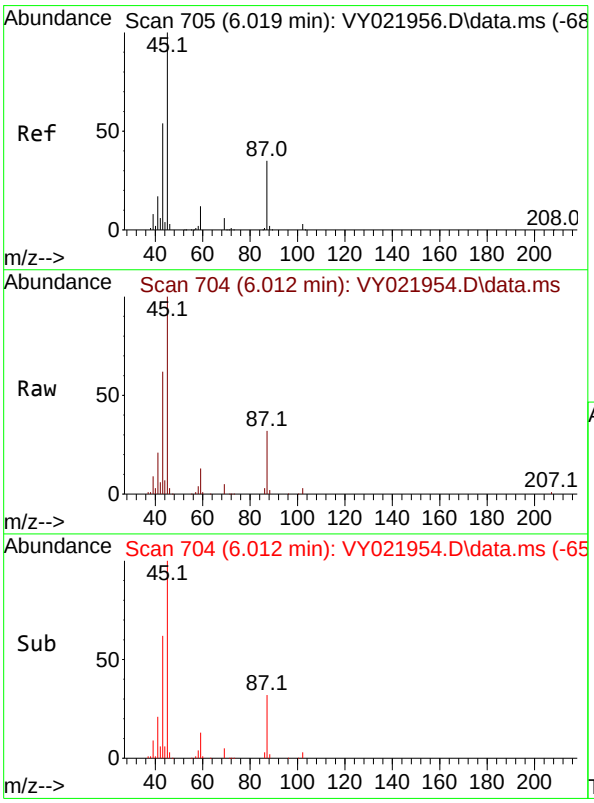
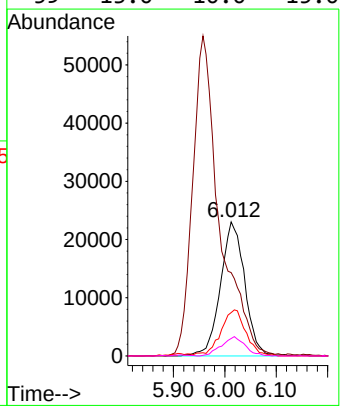
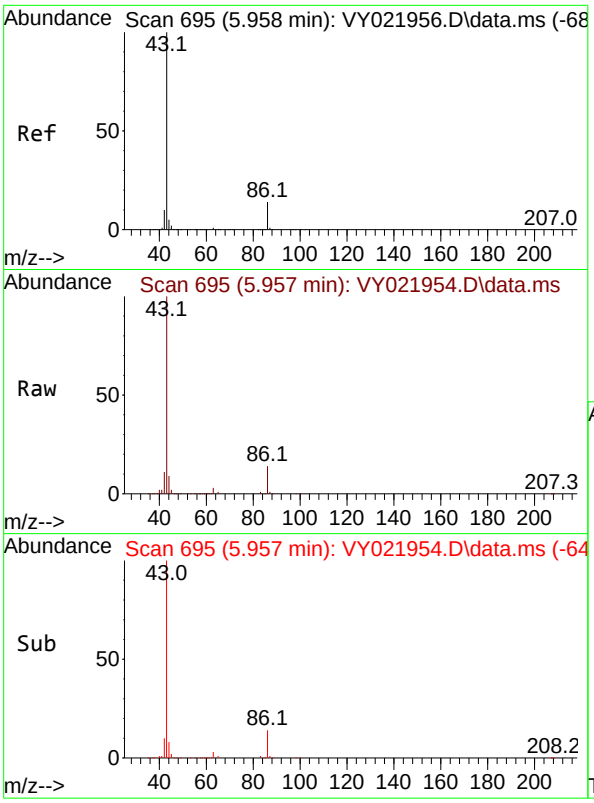


#22
Diisopropyl ether
Concen: 10.028 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 45 Resp: 75451

Ion	Ratio	Lower	Upper
45	100		
43	60.5	43.6	65.4
87	32.4	28.2	42.4
59	13.0	10.0	15.0





#23
Vinyl Acetate
Concen: 49.260 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 19975

Ion	Ratio	Lower	Upper
43	100		
86	14.3	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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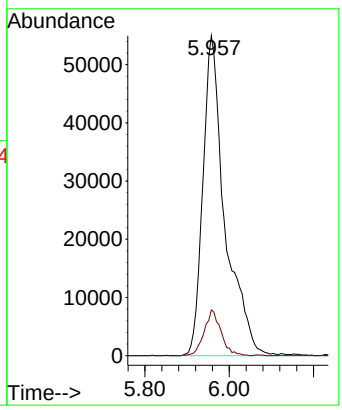
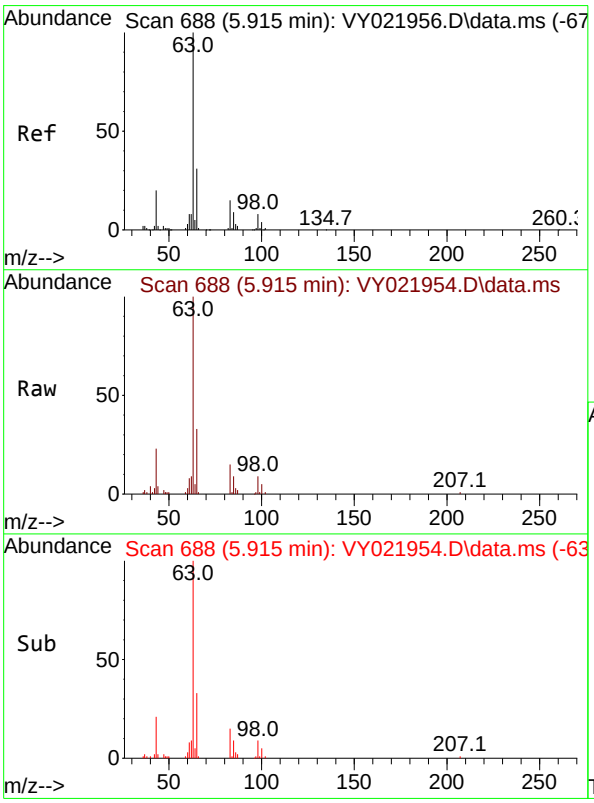
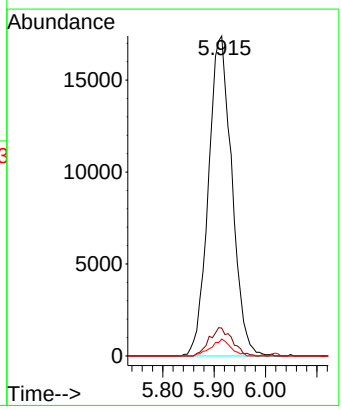


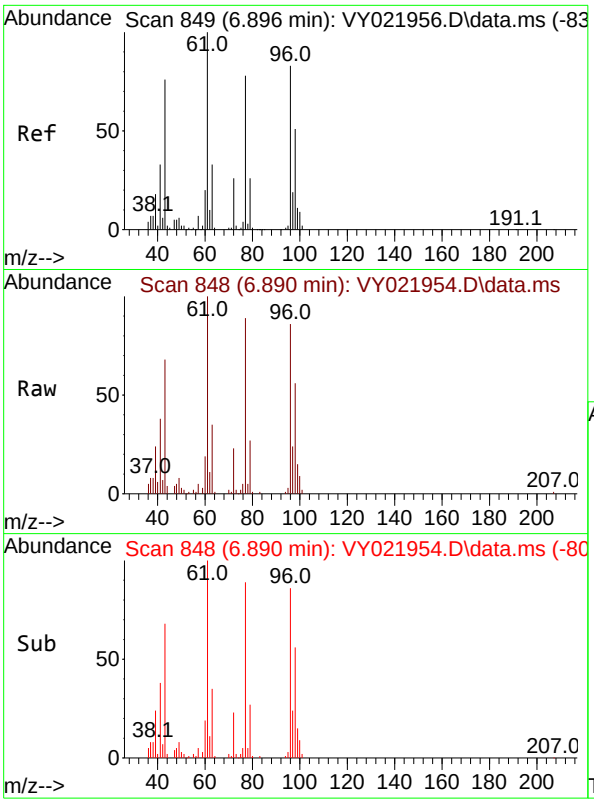


#24
1,1-Dichloroethane
Concen: 10.558 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 63 Resp: 55067

Ion	Ratio	Lower	Upper
63	100		
98	8.7	4.0	11.9
100	5.3	2.0	6.0

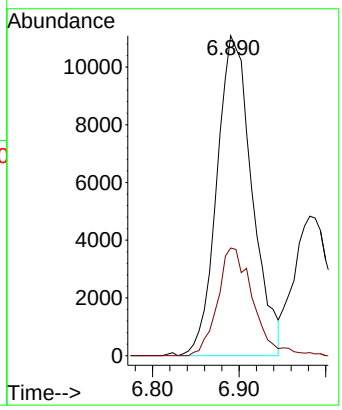




#25
2-Butanone
Concen: 50.973 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 3134

Ion	Ratio	Lower	Upper
43	100		
72	33.6	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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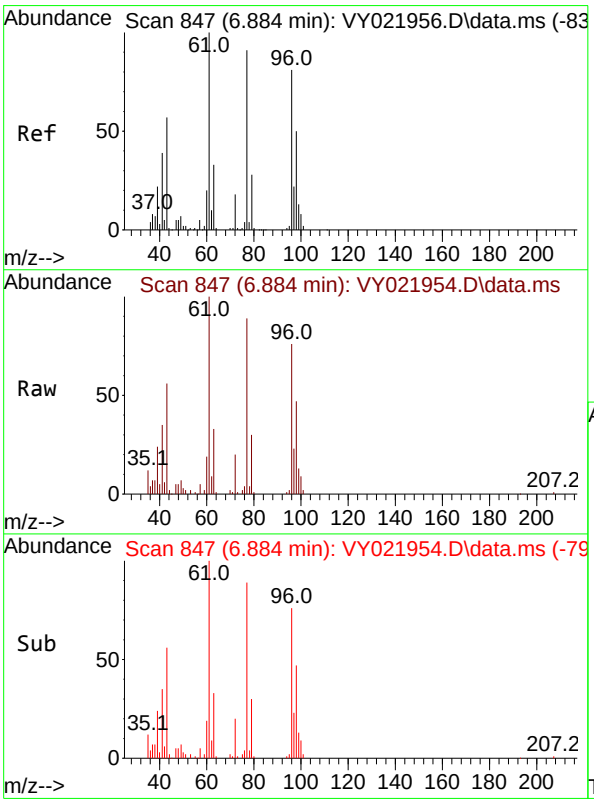
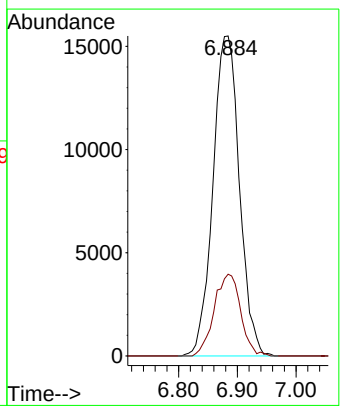
Supervised By :Mahesh Dadoda 04/23/2025

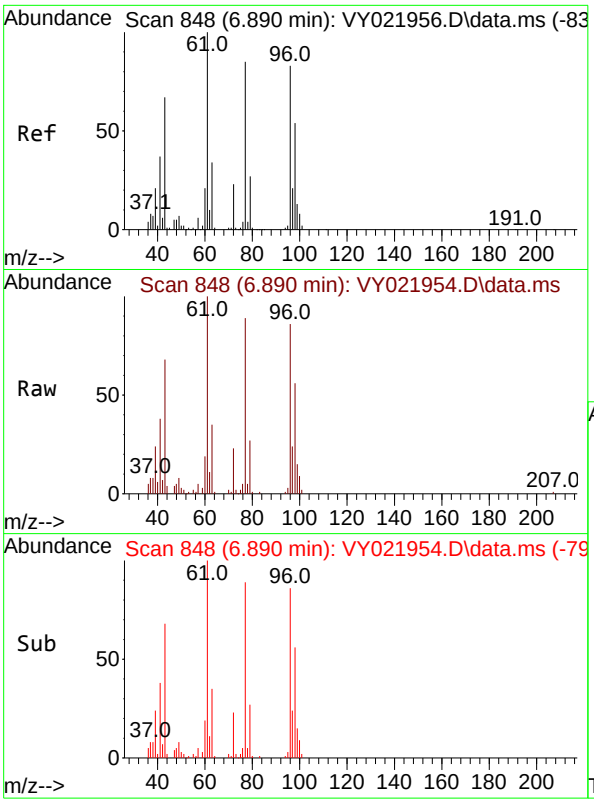


#26
2,2-Dichloropropane
Concen: 10.610 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 77 Resp: 48501

Ion	Ratio	Lower	Upper
77	100		
97	25.5	12.4	37.4

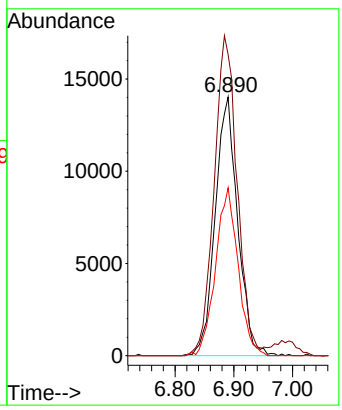




#27
cis-1,2-Dichloroethene
Concen: 10.253 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 96 Resp: 3728

Ion	Ratio	Lower	Upper
96	100		
61	126.6	0.0	251.4
98	65.1	0.0	128.4



Instrument :
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ClientSampleId :
VSTDICC010

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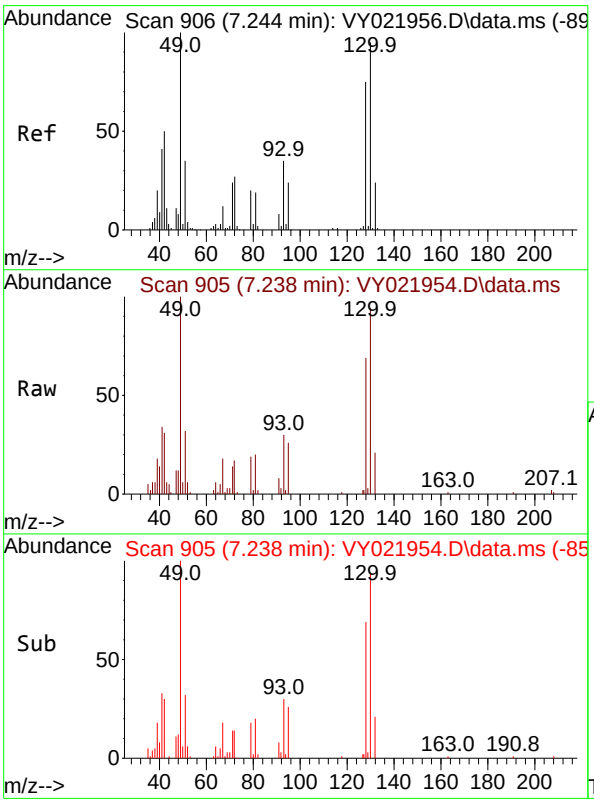
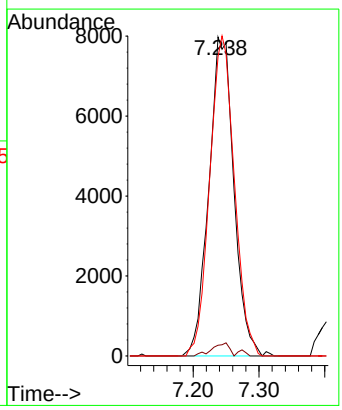
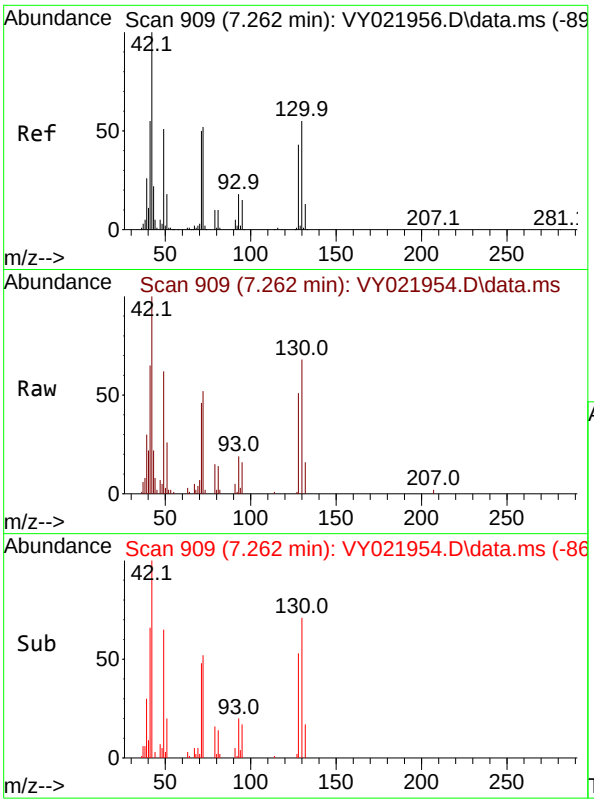


#28
Bromochloromethane
Concen: 10.426 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 49 Resp: 21122

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.0
130	98.7	78.2	117.4

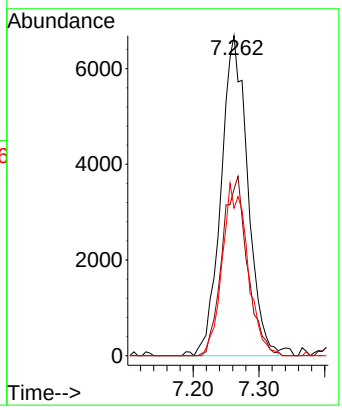




#29
Tetrahydrofuran
Concen: 47.274 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 42 Resp: 1888

Ion	Ratio	Lower	Upper
42	100		
72	53.0	42.6	63.8
71	51.0	40.6	61.0



Instrument :
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ClientSampleId :
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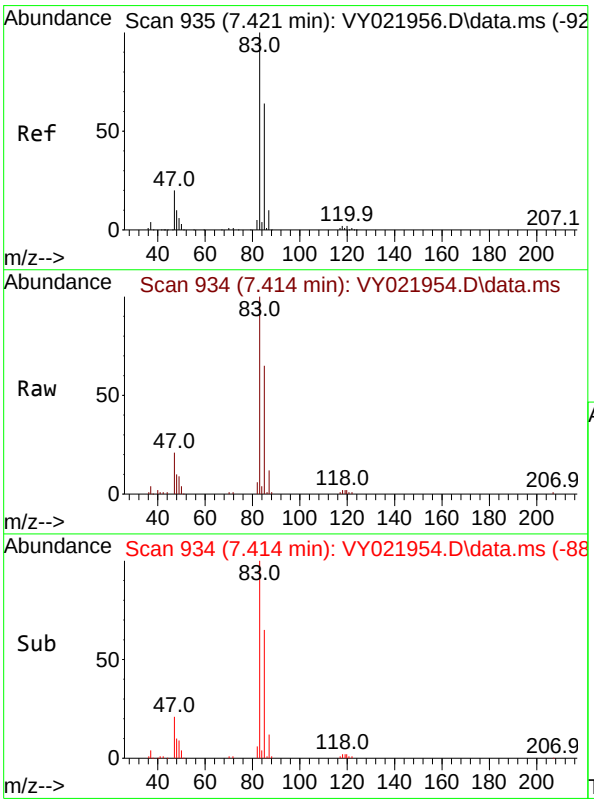
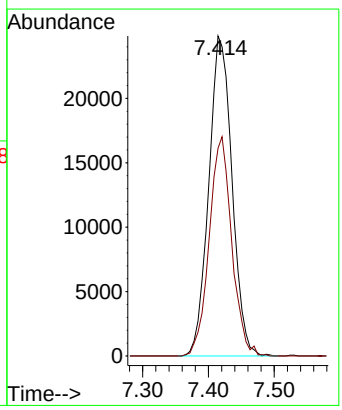
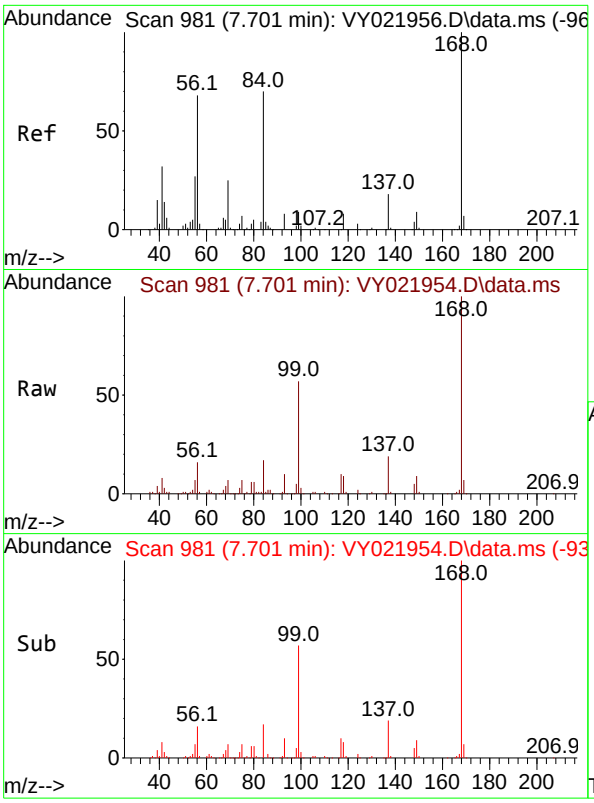


#30
Chloroform
Concen: 10.559 ug/l
RT: 7.414 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 83 Resp: 61088

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.3	76.9

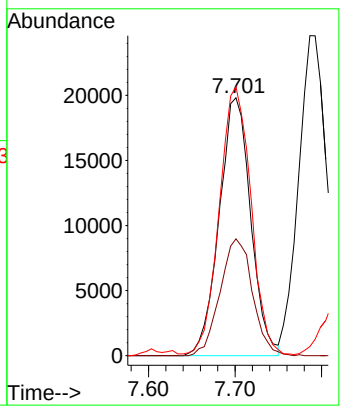




#31
Cyclohexane
Concen: 11.229 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 56 Resp: 5008

Ion	Ratio	Lower	Upper
56	100		
69	45.3	29.4	44.2#
84	103.5	82.2	123.4



Instrument :
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ClientSampleId :
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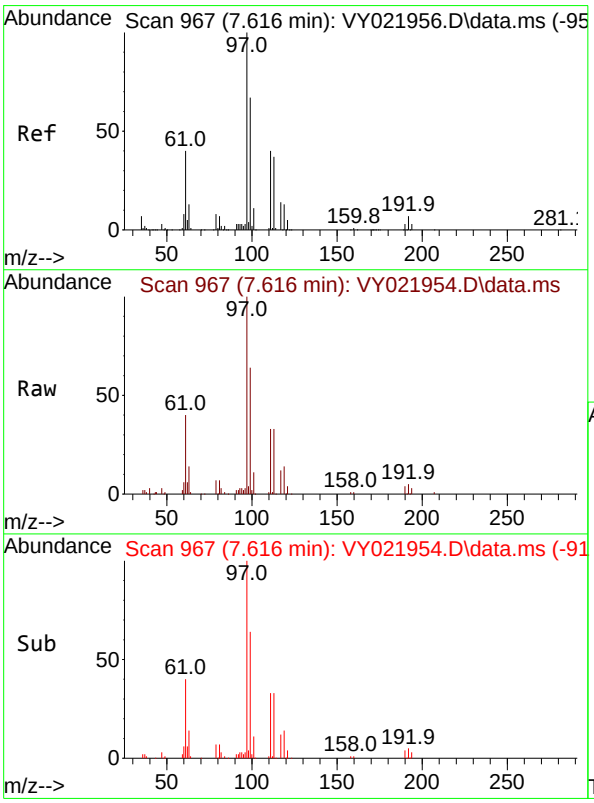
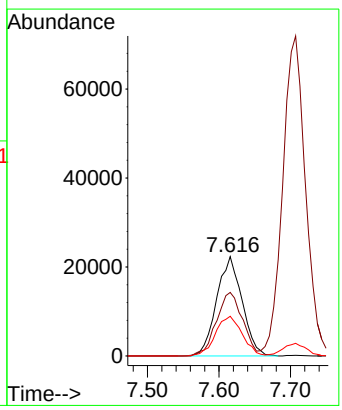
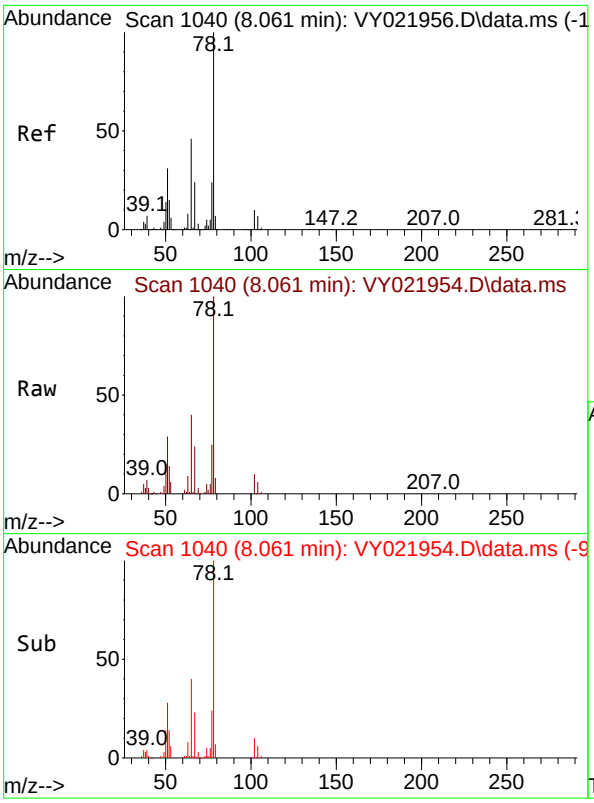


#32
1,1,1-Trichloroethane
Concen: 10.540 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 97 Resp: 55163

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.4	77.2
61	42.0	31.4	47.2

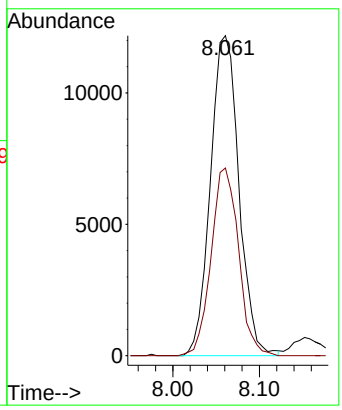




#33
1,2-Dichloroethane-d4
Concen: 10.325 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 65 Resp: 2785

Ion	Ratio	Lower	Upper
65	100		
67	56.4	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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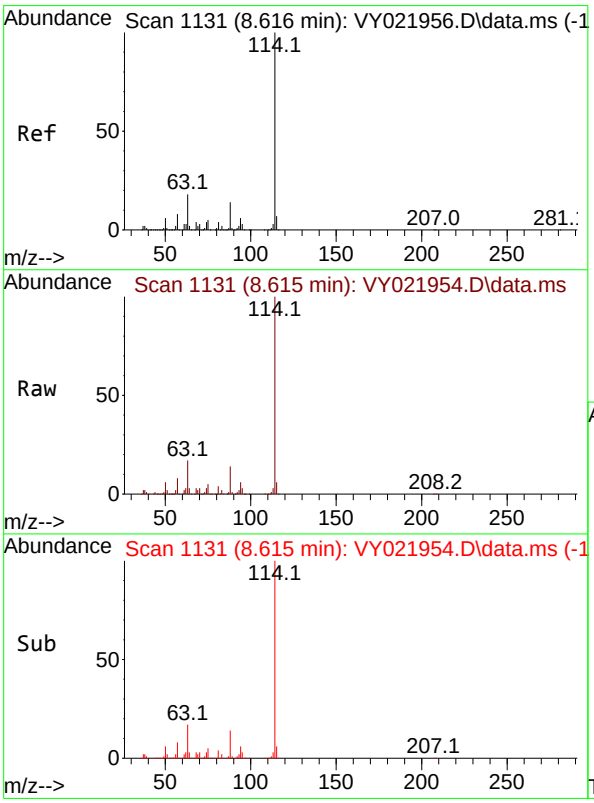
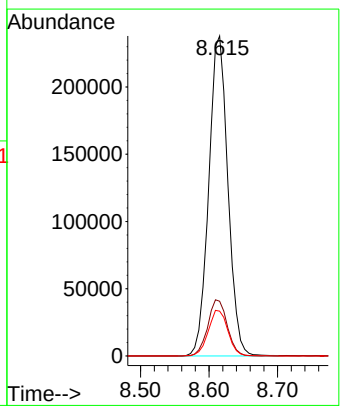
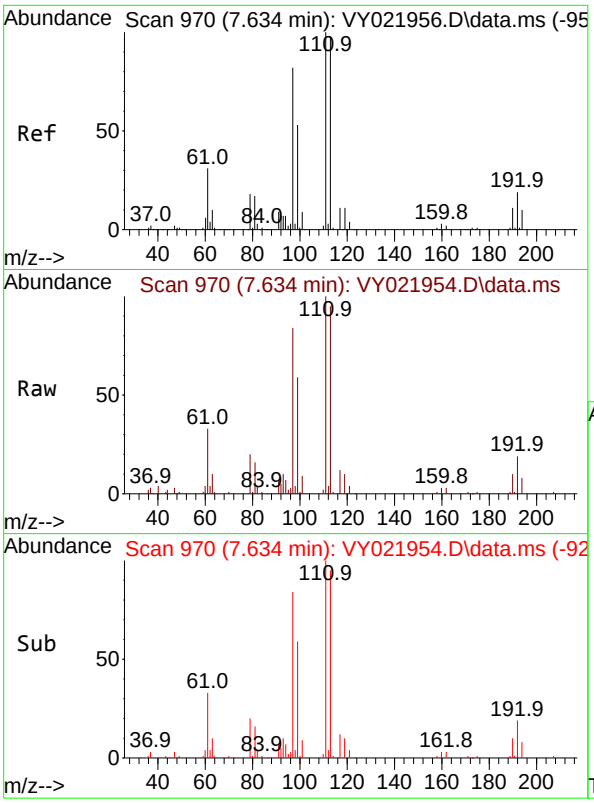


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:114 Resp: 462235

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	35.4
88	14.0	0.0	28.2

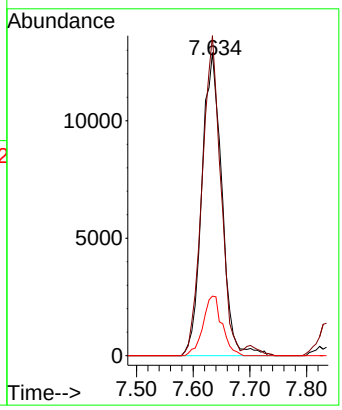




#35
Dibromofluoromethane
Concen: 10.335 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:113 Resp: 3156

Ion	Ratio	Lower	Upper
113	100		
111	98.0	81.8	122.8
192	18.8	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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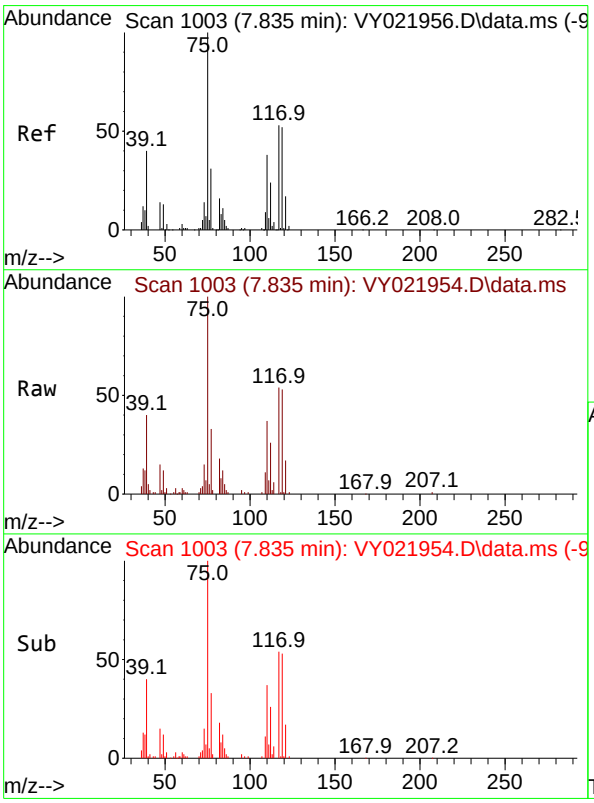
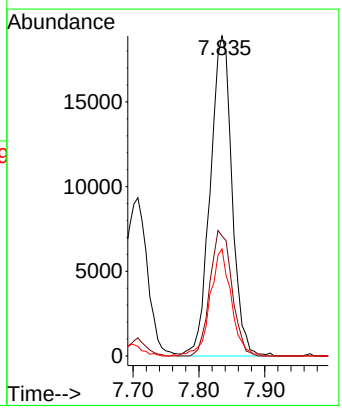
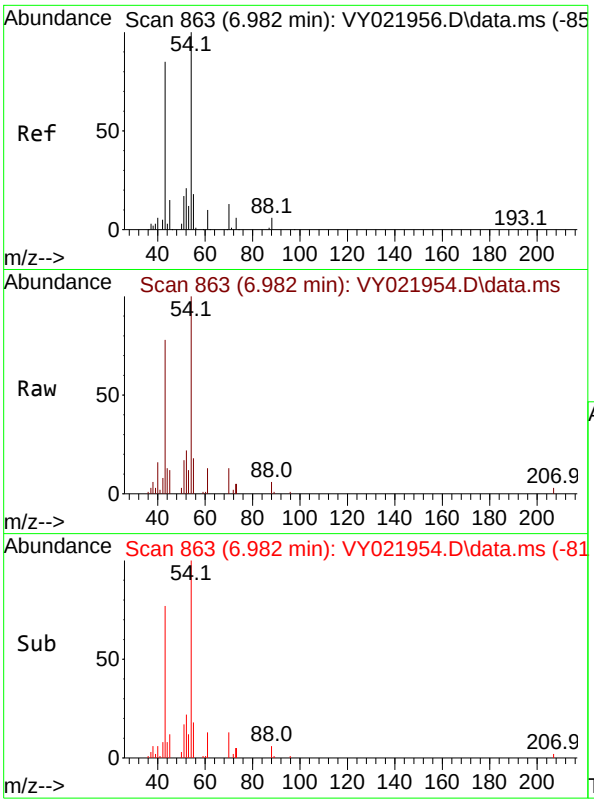


#36
1,1-Dichloropropene
Concen: 10.604 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 75 Resp: 43496

Ion	Ratio	Lower	Upper
75	100		
110	39.7	19.1	57.3
77	32.3	25.5	38.3

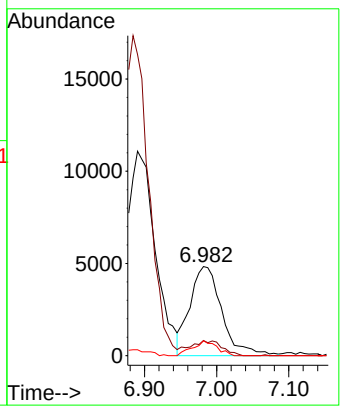




#37
Ethyl Acetate
Concen: 10.248 ug/l m
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 1489

Ion	Ratio	Lower	Upper
43	100		
61	14.7	13.8	20.6
70	12.6	9.2	13.8



Instrument :
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ClientSampleId :
VSTDICC010

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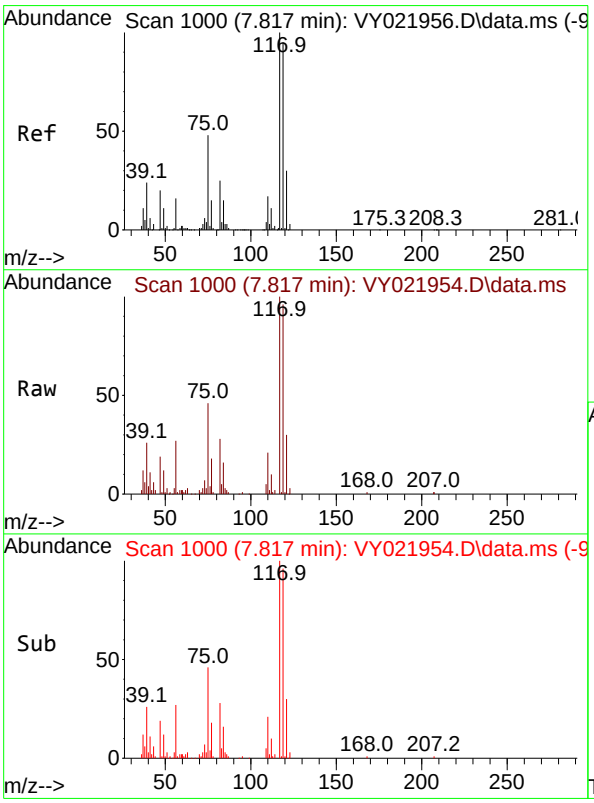
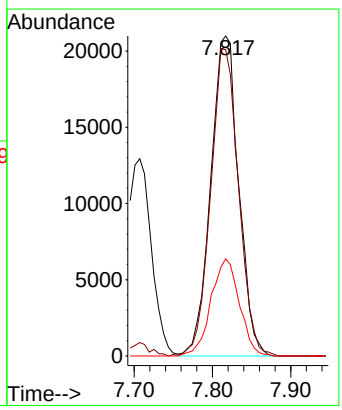
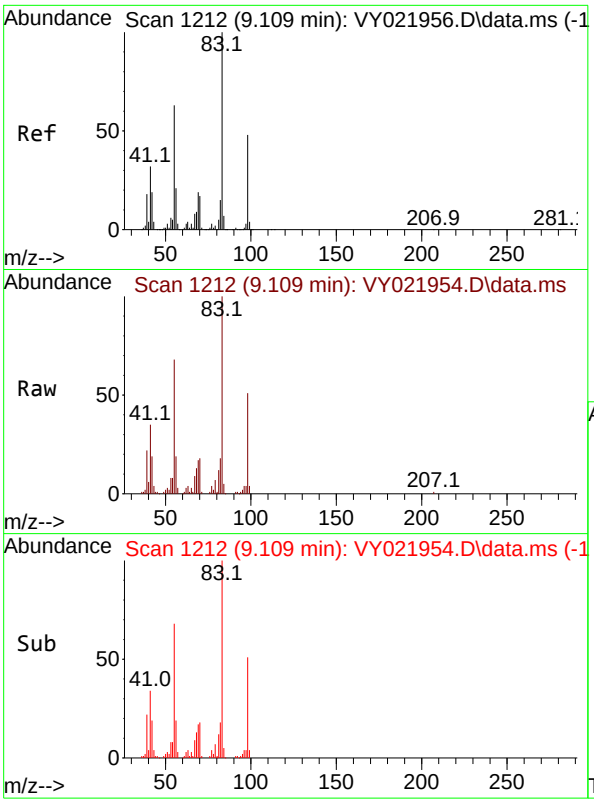


#38
Carbon Tetrachloride
Concen: 10.625 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:117 Resp: 52079

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.2	114.4
121	30.4	24.0	36.0





#39
Methylcyclohexane
Concen: 10.194 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 83 Resp: 5262

Ion	Ratio	Lower	Upper
83	100		
55	68.3	50.6	75.8
98	50.6	38.6	58.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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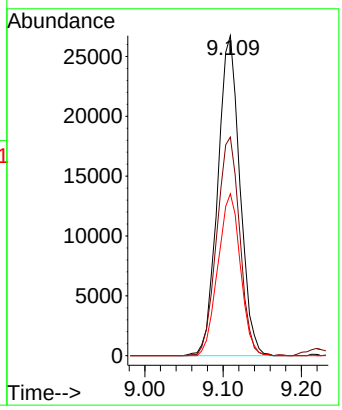
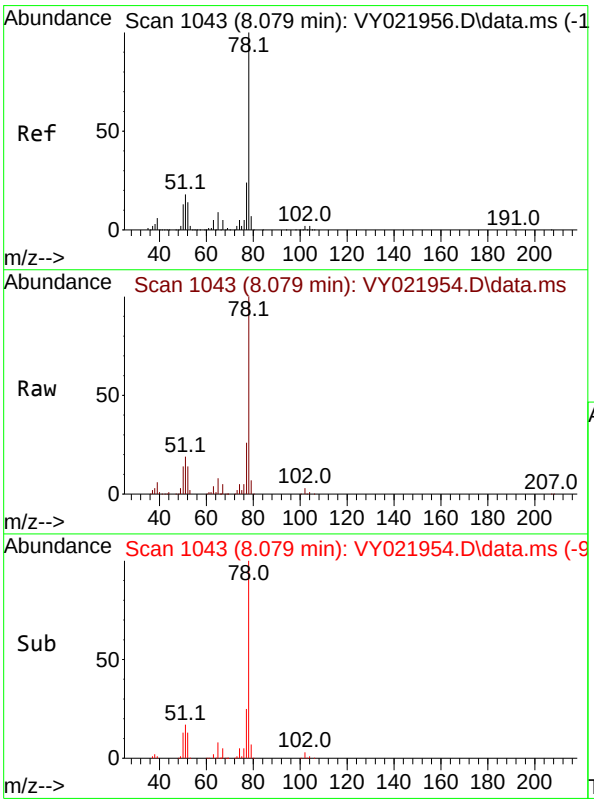
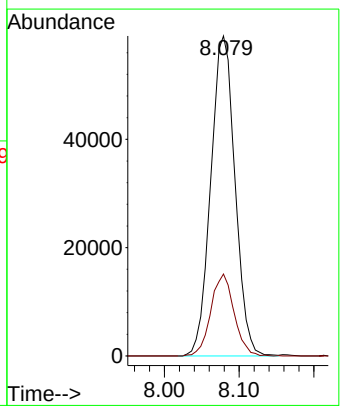


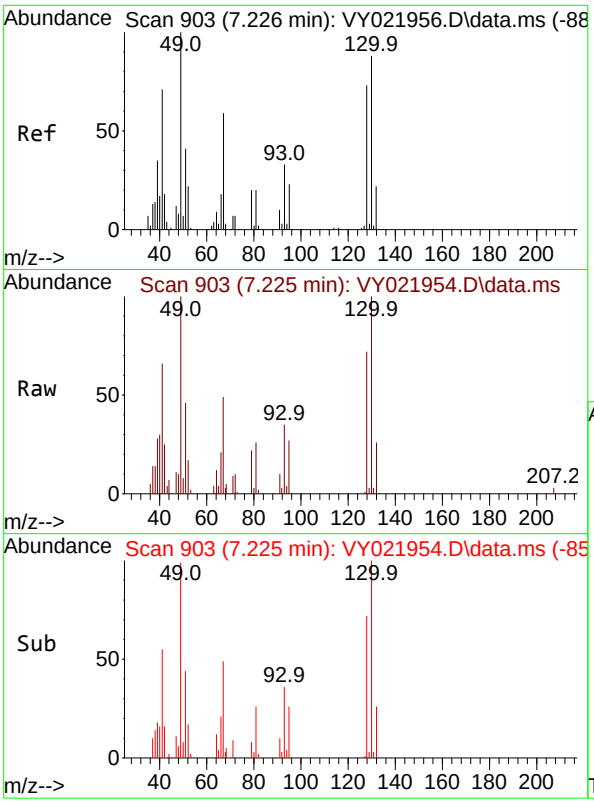


#40
Benzene
Concen: 10.373 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 78 Resp: 133010

Ion	Ratio	Lower	Upper
78	100		
77	25.6	19.3	28.9

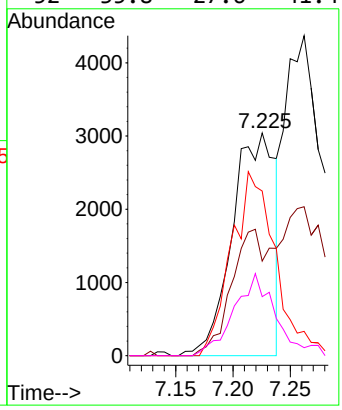




#41
Methacrylonitrile
Concen: 9.813 ug/l m
RT: 7.225 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 41 Resp: 790(

Ion	Ratio	Lower	Upper
41	100		
39	40.9	36.6	55.0
67	85.1	72.2	108.4
52	35.8	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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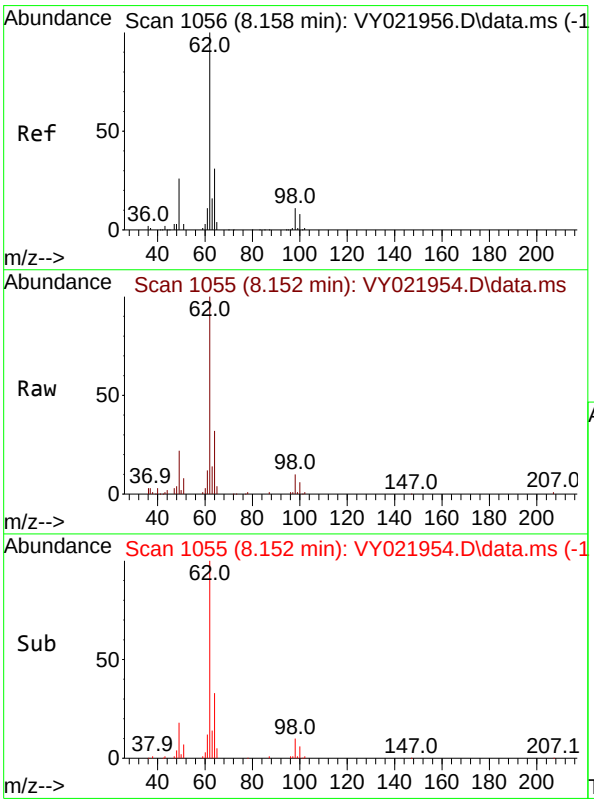
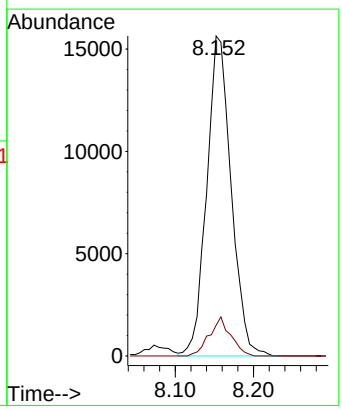
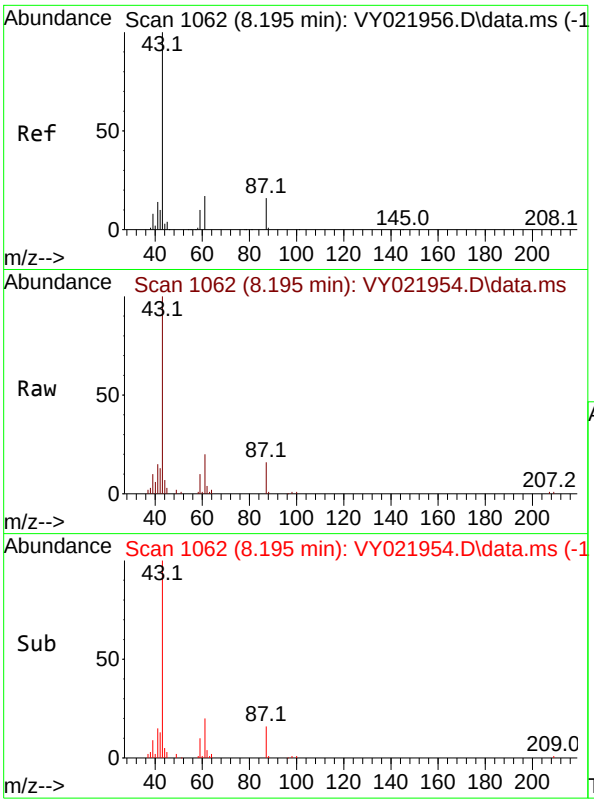


#42
1,2-Dichloroethane
Concen: 10.690 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 62 Resp: 33939

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	22.0





#43
Isopropyl Acetate
Concen: 9.574 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 2708

Ion	Ratio	Lower	Upper
43	100		
61	22.7	18.9	28.3
87	18.1	13.7	20.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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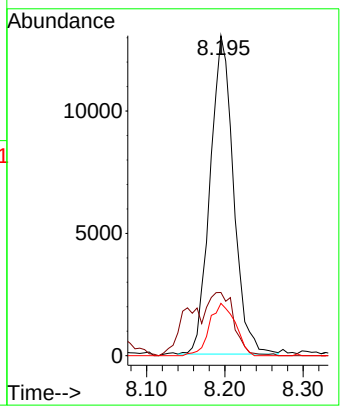
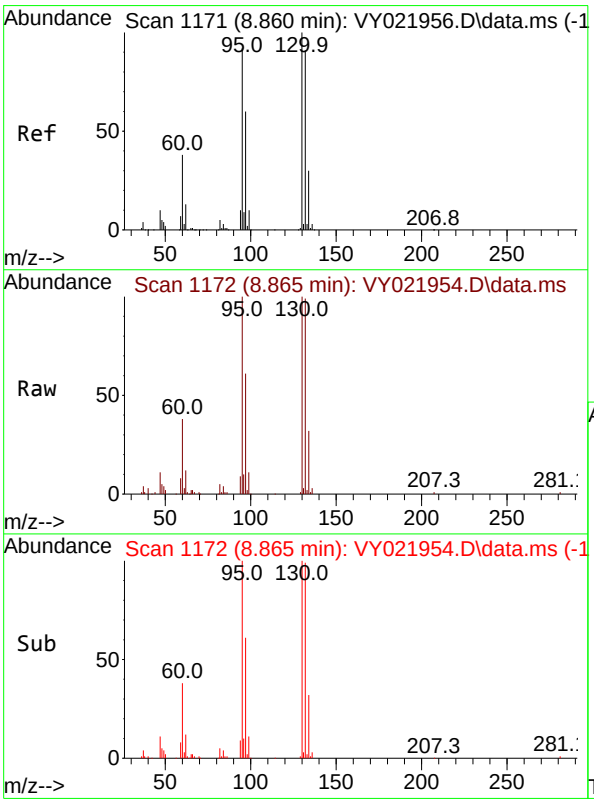
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

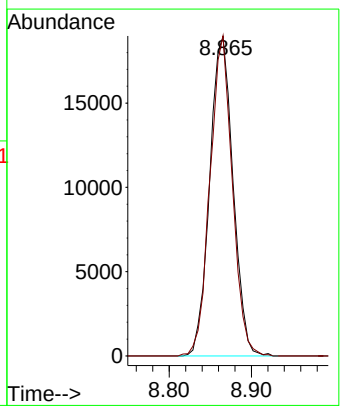


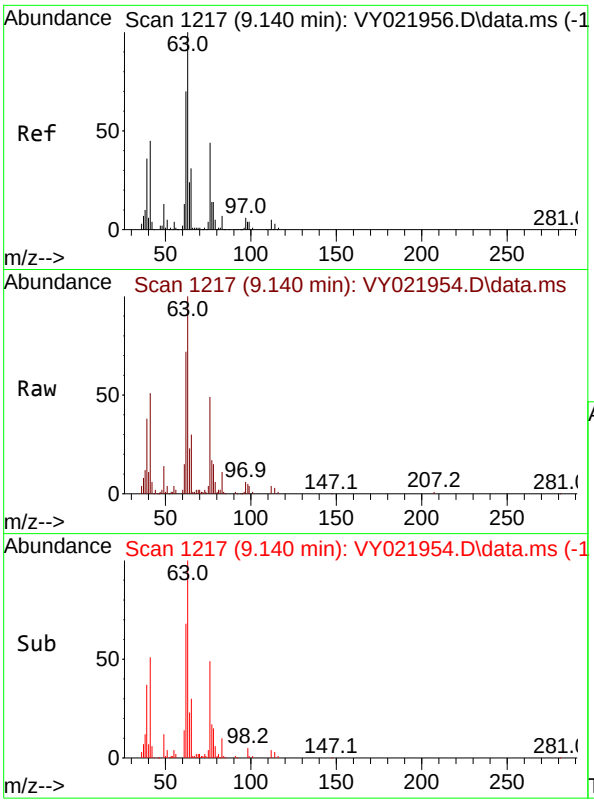


#44
Trichloroethene
Concen: 10.534 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:130 Resp: 37414

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	183.2

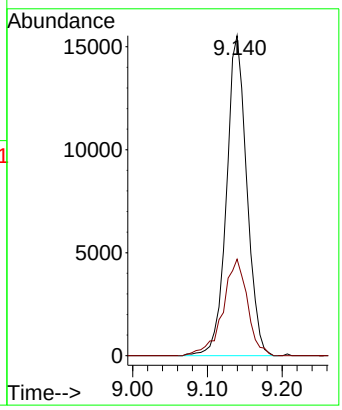




#45
1,2-Dichloropropane
Concen: 10.342 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 63 Resp: 2932

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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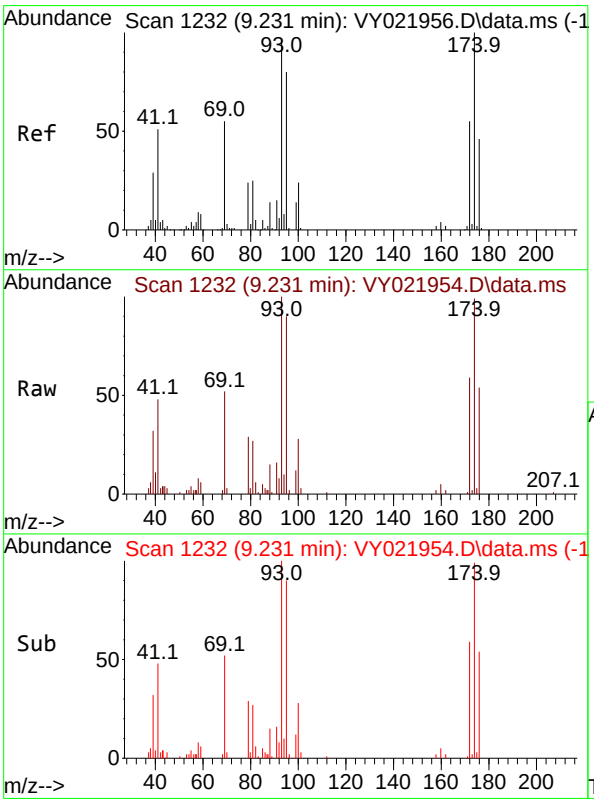
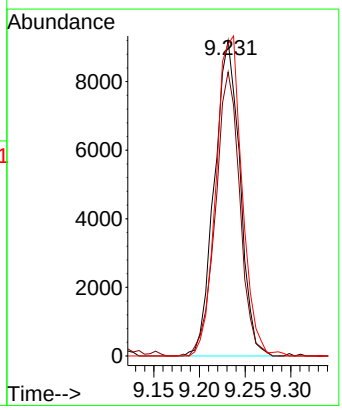
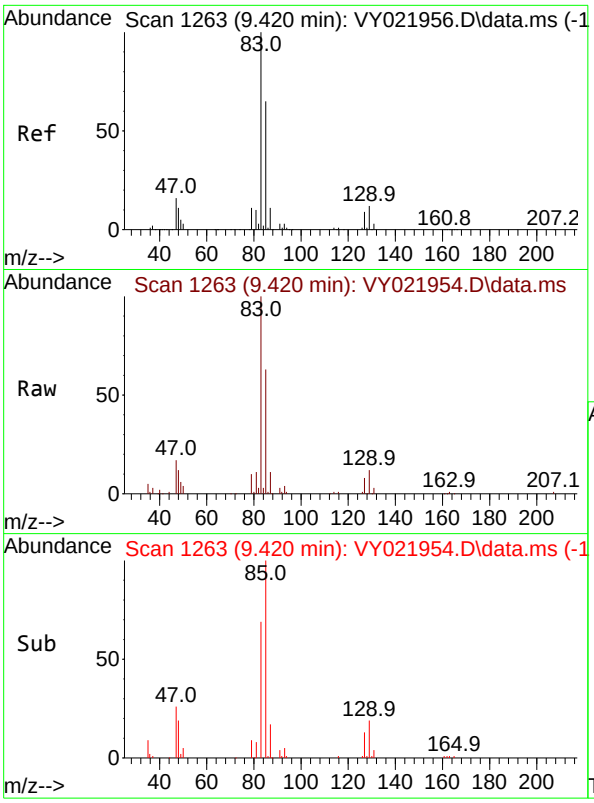


#46
Dibromomethane
Concen: 10.055 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 93 Resp: 17848

Ion	Ratio	Lower	Upper
93	100		
95	85.7	66.7	100.1
174	103.7	84.6	127.0

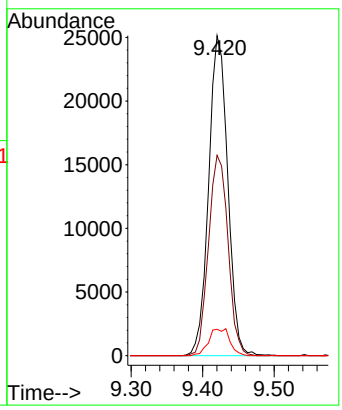




#47
Bromodichloromethane
Concen: 10.498 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 83 Resp: 4655

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.8	77.8
127	8.2	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
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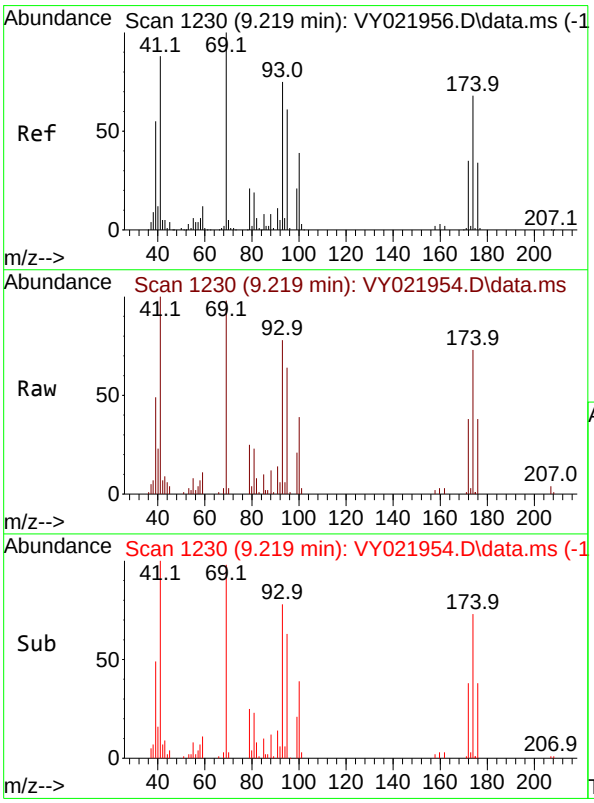
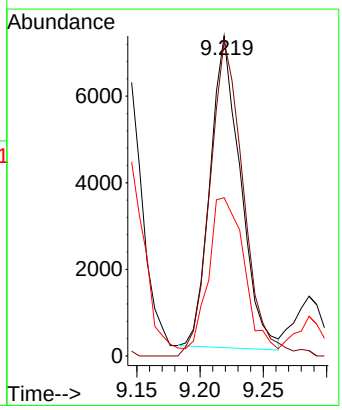
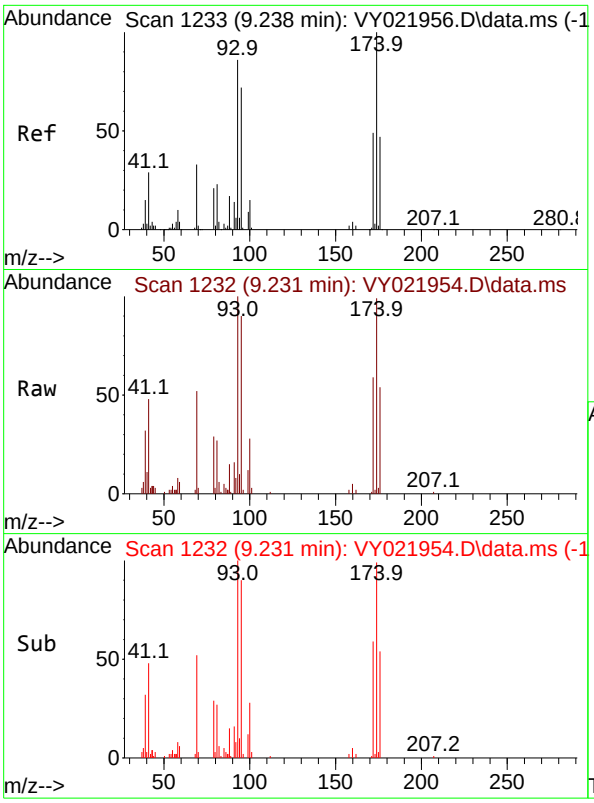


#48
Methyl methacrylate
Concen: 9.202 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 41 Resp: 12035

Ion	Ratio	Lower	Upper
41	100		
69	111.3	85.5	128.3
39	56.4	46.2	69.4

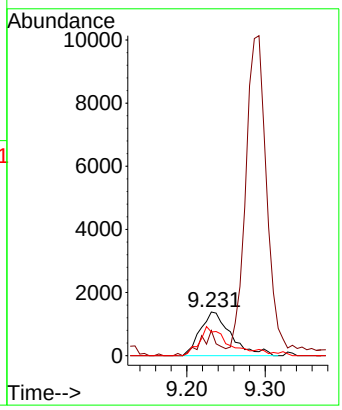




#49
1,4-Dioxane
Concen: 199.843 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 88 Resp: 378

Ion	Ratio	Lower	Upper
88	100		
43	32.0	21.3	31.9
58	64.2	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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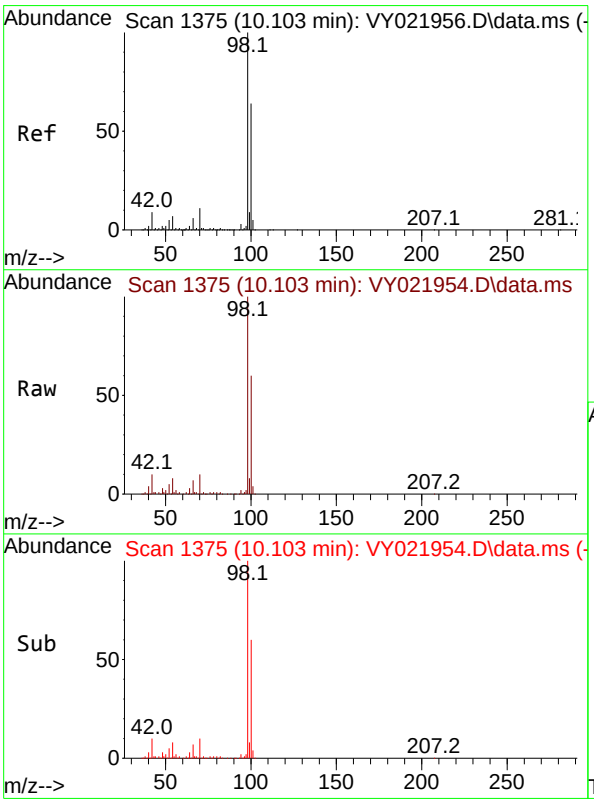
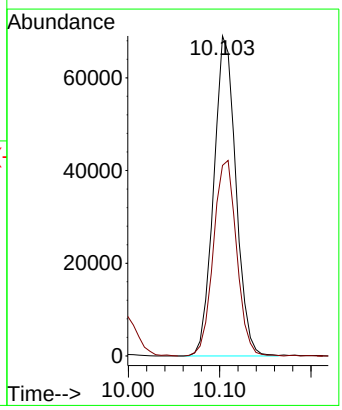
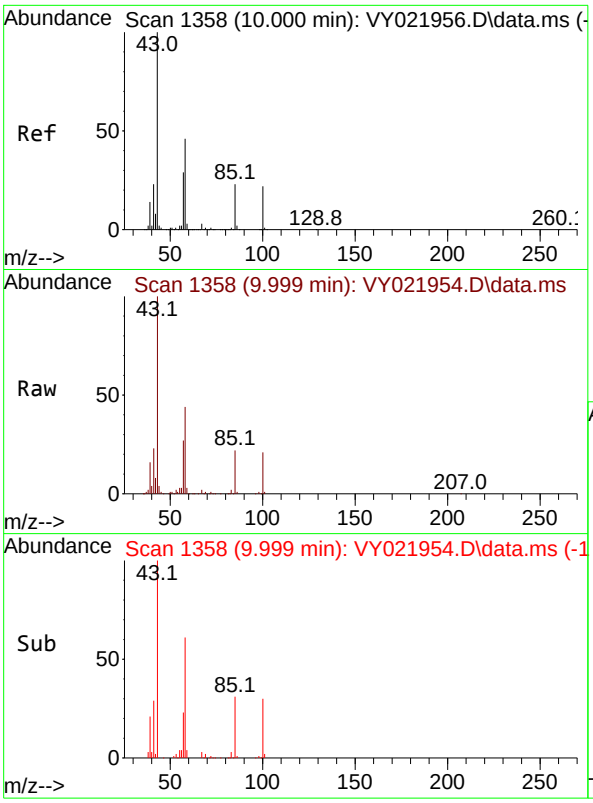


#50
Toluene-d8
Concen: 10.118 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 98 Resp: 116480

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.6	77.4

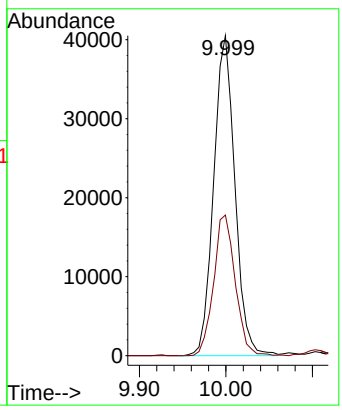




#51
4-Methyl-2-Pentanone
Concen: 46.490 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 6895

Ion	Ratio	Lower	Upper
43	100		
58	44.8	36.6	55.0



Instrument :
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ClientSampleId :
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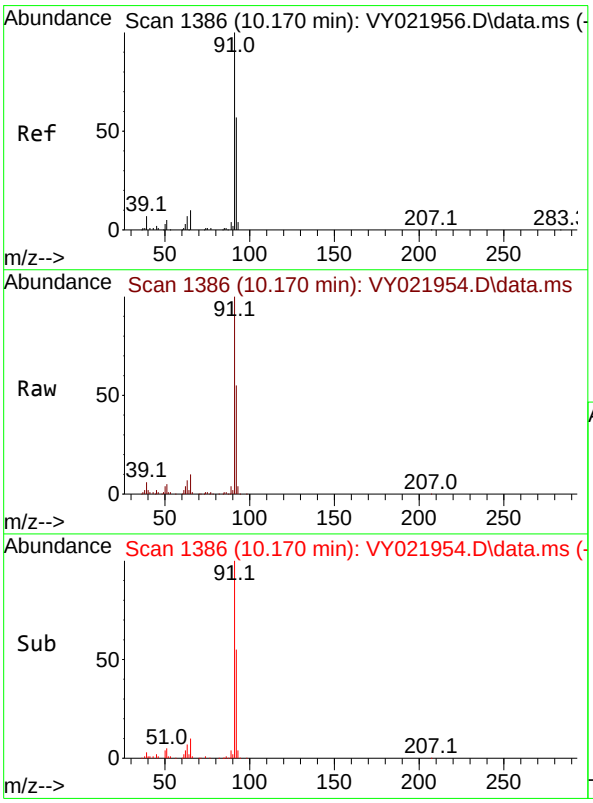
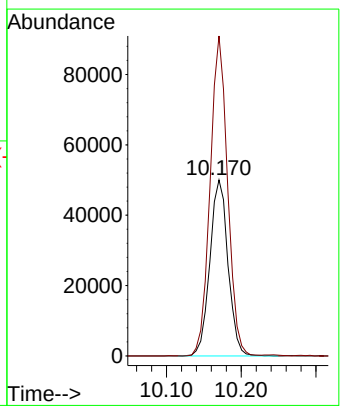
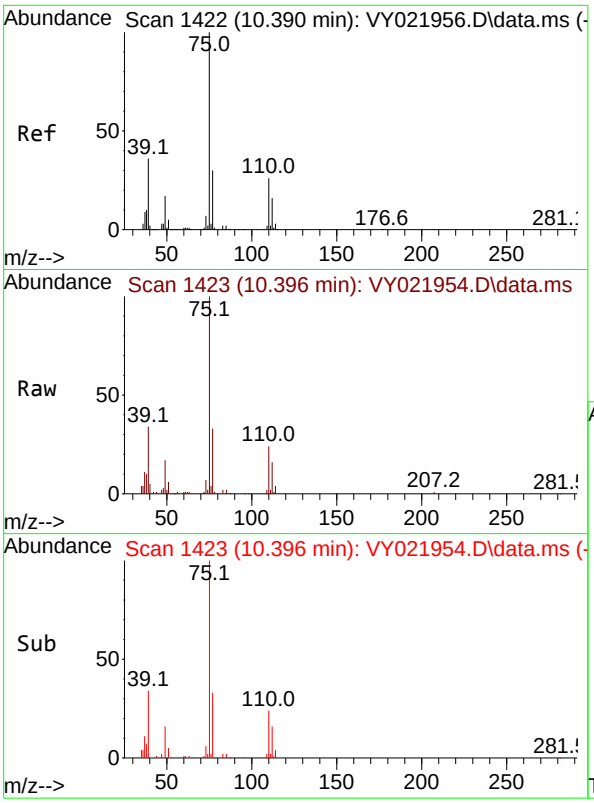


#52
Toluene
Concen: 10.189 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 92 Resp: 84571

Ion	Ratio	Lower	Upper
92	100		
91	175.1	138.6	207.8

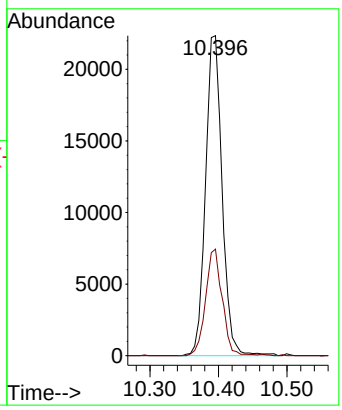




#53
t-1,3-Dichloropropene
Concen: 9.911 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 75 Resp: 3769

Ion	Ratio	Lower	Upper
75	100		
77	33.3	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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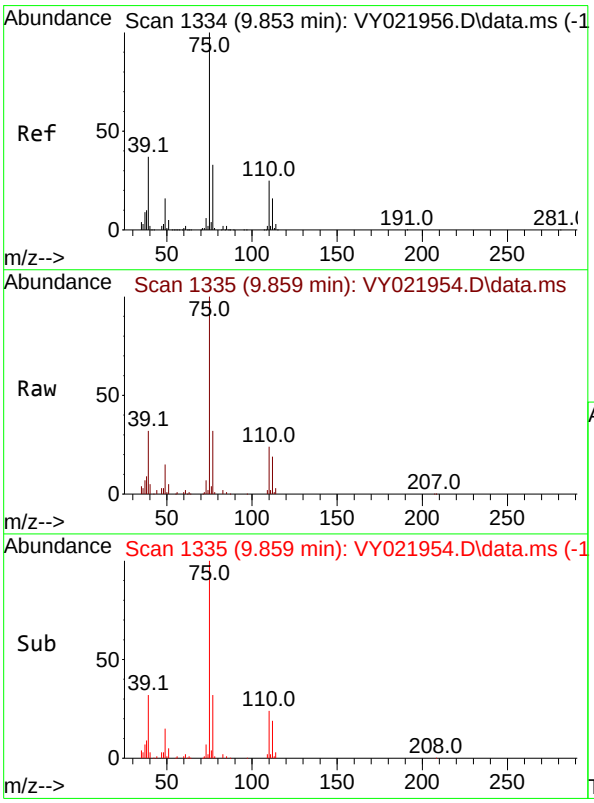
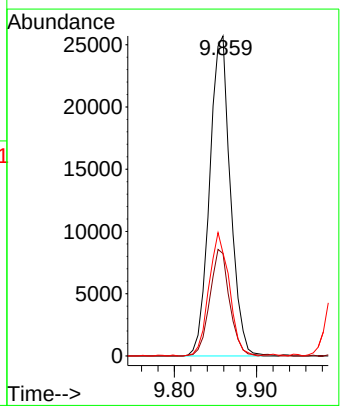
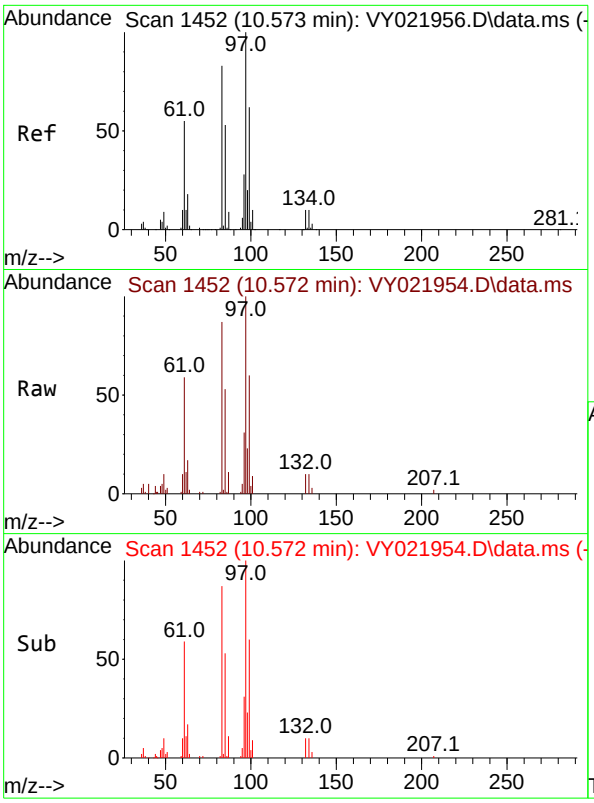


#54
cis-1,3-Dichloropropene
Concen: 9.982 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 75 Resp: 45133

Ion	Ratio	Lower	Upper
75	100		
77	32.0	26.6	40.0
39	32.2	29.6	44.4

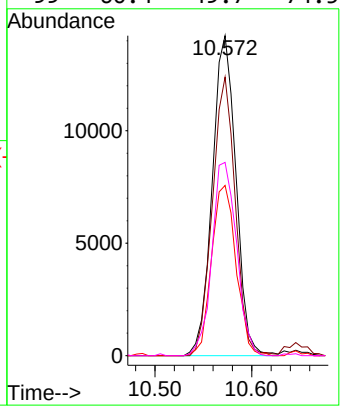




#55
1,1,2-Trichloroethane
Concen: 10.192 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 97 Resp: 2416

Ion	Ratio	Lower	Upper
97	100		
83	87.1	66.7	100.1
85	53.2	42.6	64.0
99	60.4	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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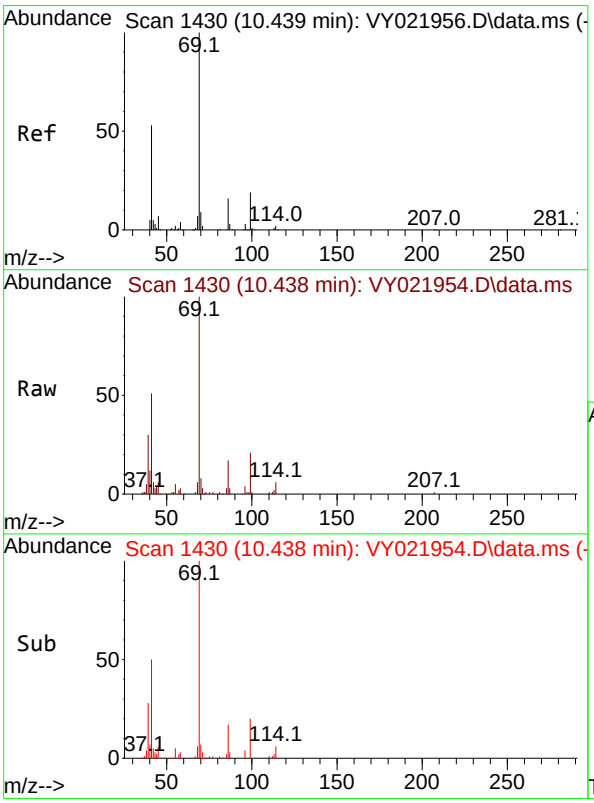
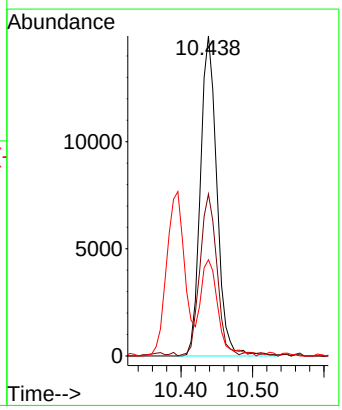
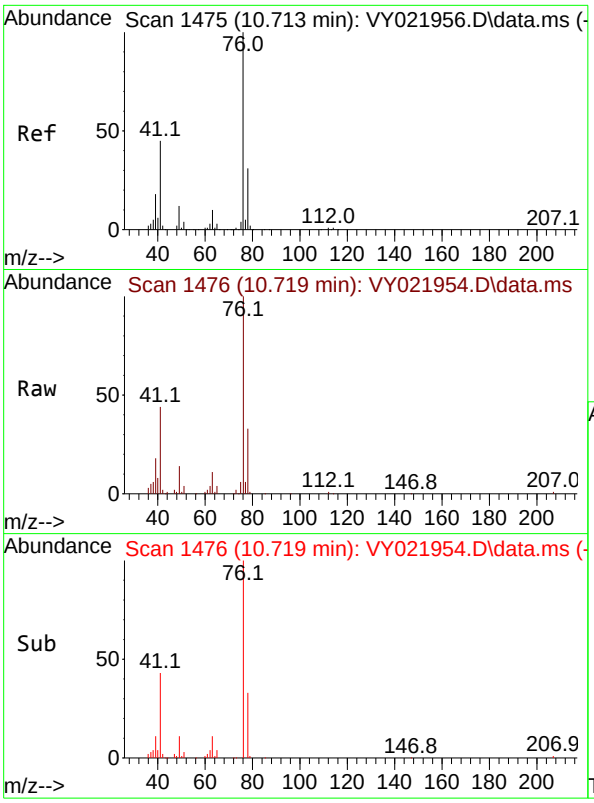


#56
Ethyl methacrylate
Concen: 8.823 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 69 Resp: 23924

Ion	Ratio	Lower	Upper
69	100		
41	52.1	40.7	61.1
39	31.1	23.3	34.9

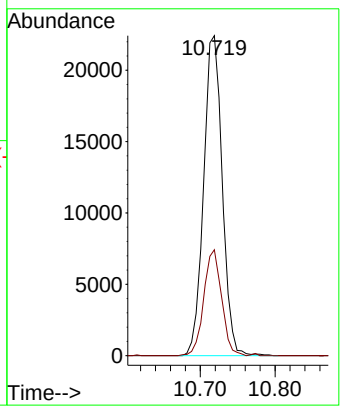




#57
1,3-Dichloropropane
Concen: 10.204 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 76 Resp: 3878

Ion	Ratio	Lower	Upper
76	100		
78	31.6	26.6	39.8



Instrument :
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ClientSampleId :
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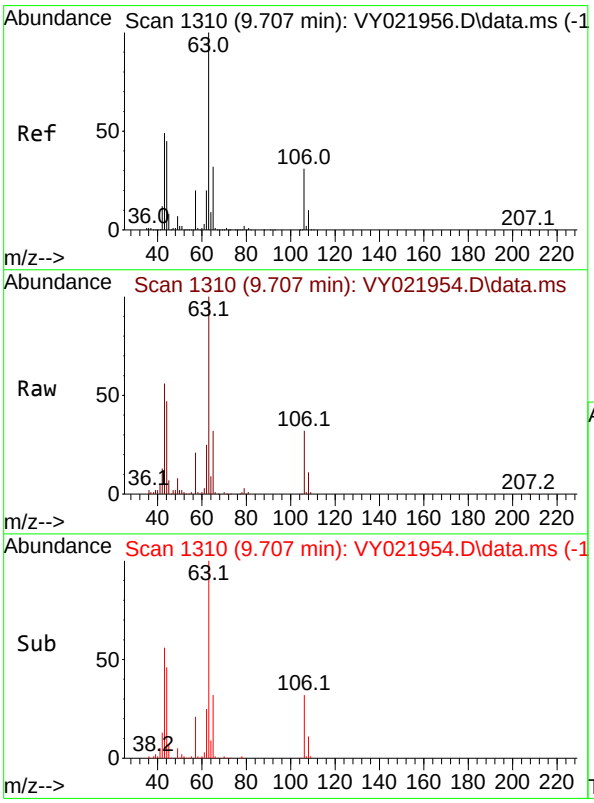
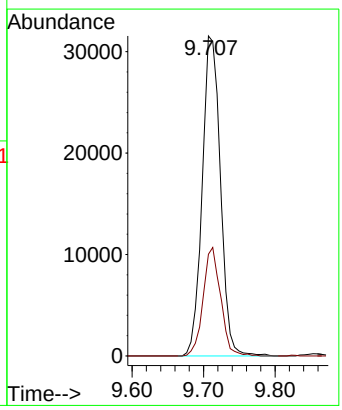
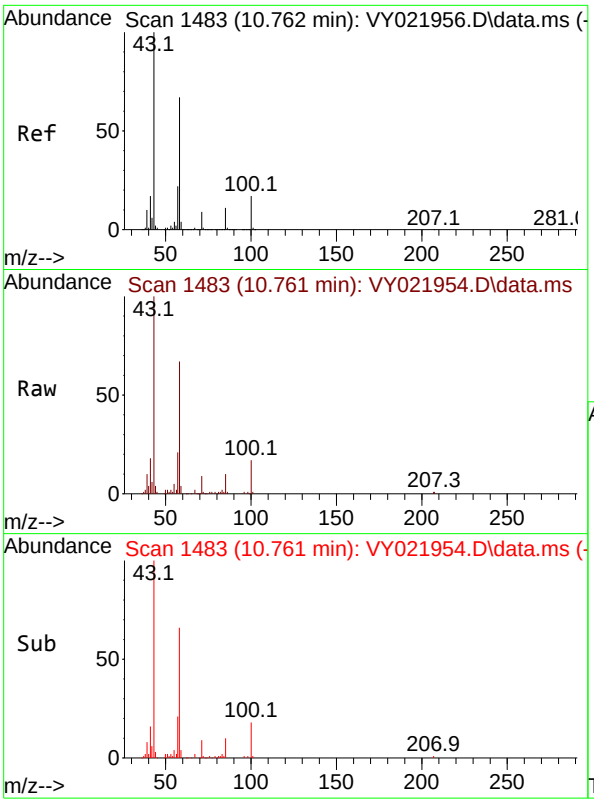


#58
2-Chloroethyl Vinyl ether
Concen: 42.164 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 63 Resp: 55900

Ion	Ratio	Lower	Upper
63	100		
106	32.5	25.3	37.9





#59
2-Hexanone
Concen: 45.407 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 4441

Ion	Ratio	Lower	Upper
43	100		
58	61.8	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
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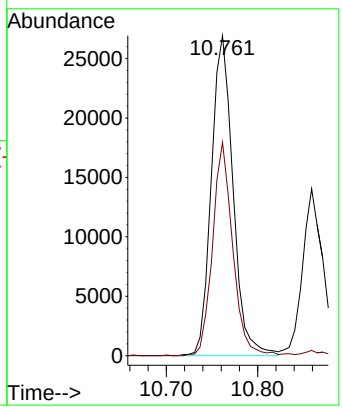
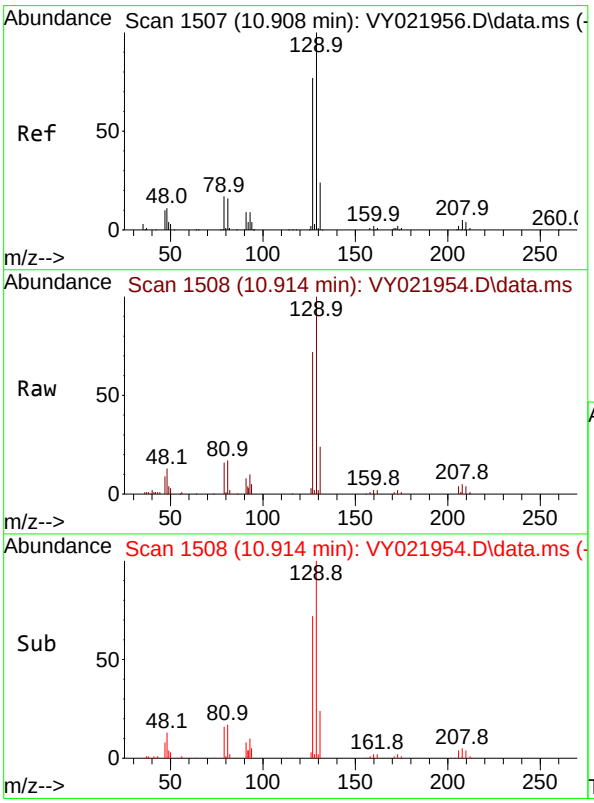
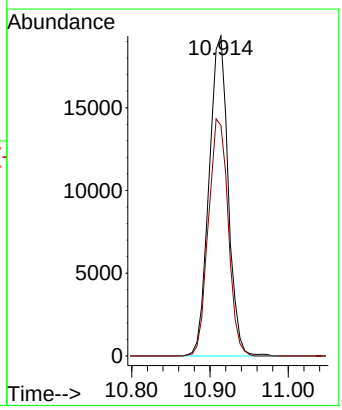


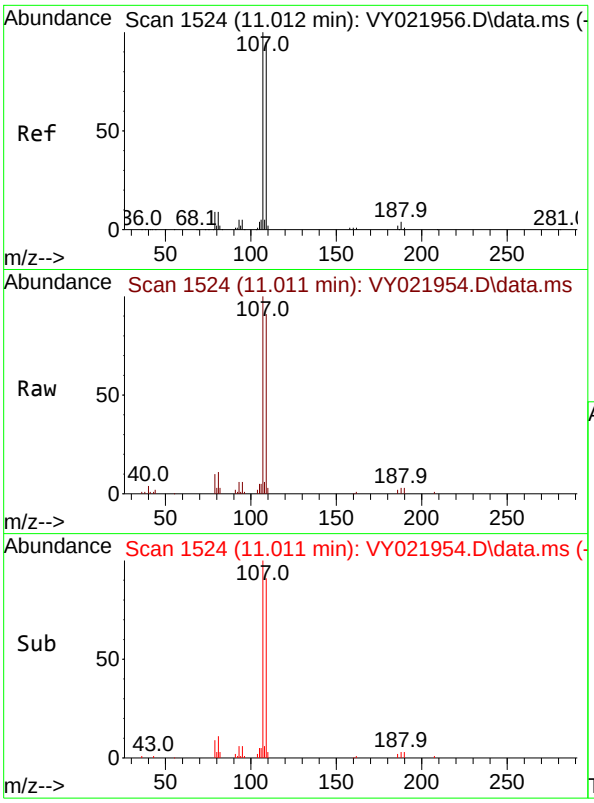


#60
Dibromochloromethane
Concen: 9.994 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:129 Resp: 32807

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.5	115.3

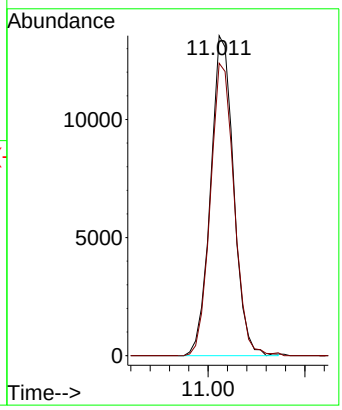




#61
1,2-Dibromoethane
Concen: 10.019 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:107 Resp: 2242

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
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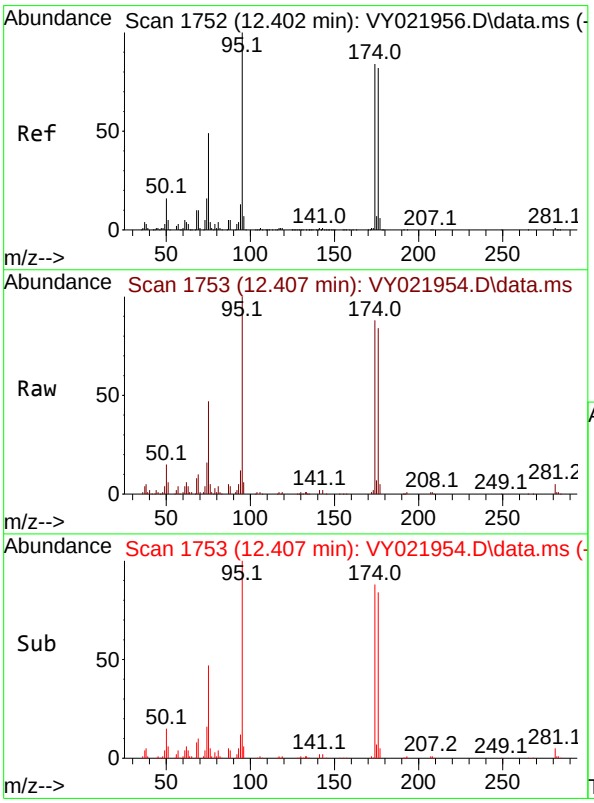
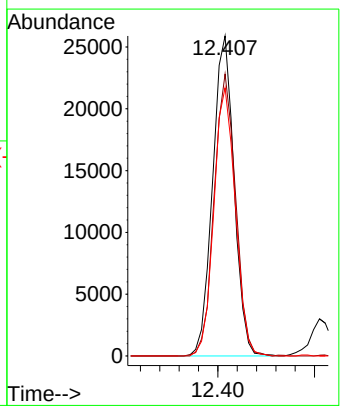
Supervised By :Mahesh Dadoda 04/23/2025

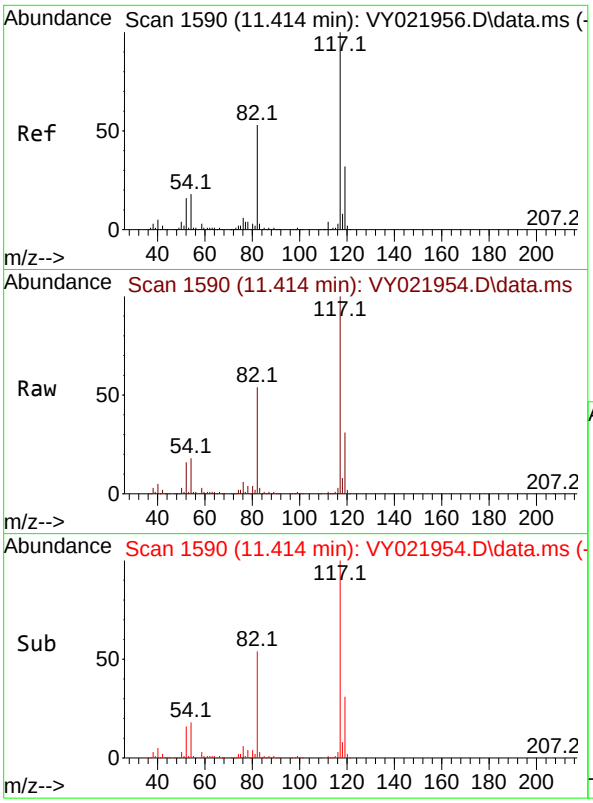


#62
4-Bromofluorobenzene
Concen: 10.244 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 95 Resp: 39704

Ion	Ratio	Lower	Upper
95	100		
174	88.3	0.0	179.0
176	84.2	0.0	171.8

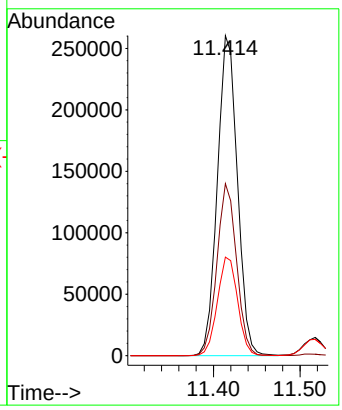




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:117 Resp: 41847

Ion	Ratio	Lower	Upper
117	100		
82	53.7	42.1	63.1
119	30.8	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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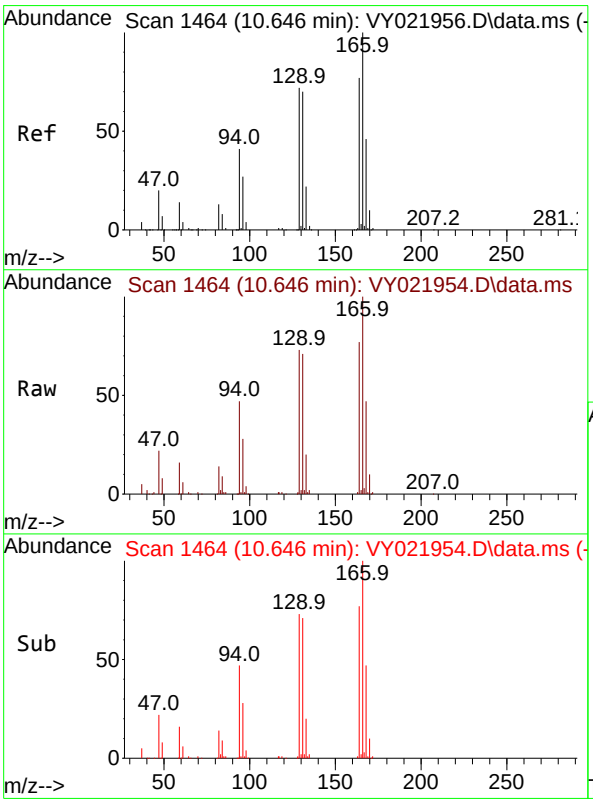
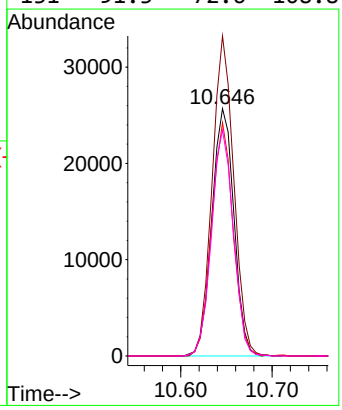
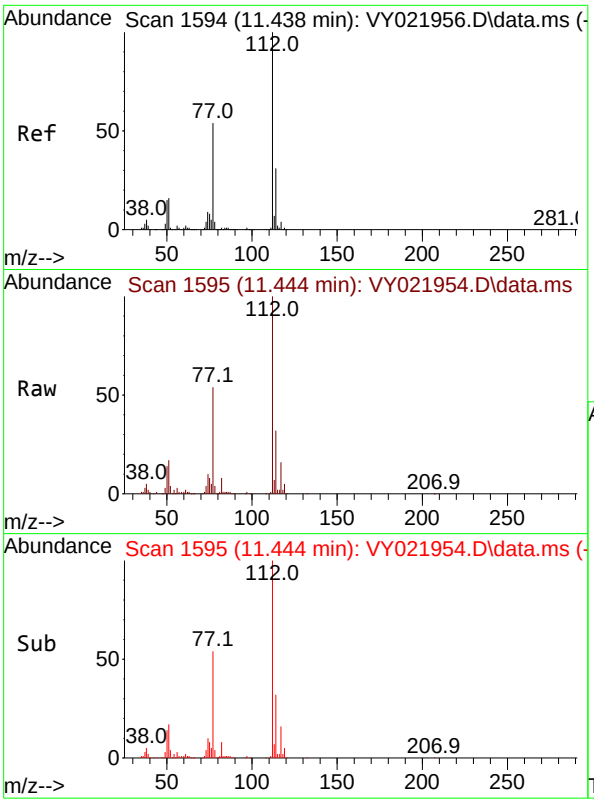


#64
Tetrachloroethene
Concen: 10.944 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:164 Resp: 43205

Ion	Ratio	Lower	Upper
164	100		
166	129.4	103.6	155.4
129	94.2	74.2	111.4
131	91.3	72.6	108.8

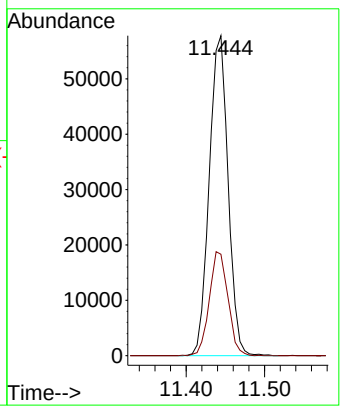




#65
Chlorobenzene
Concen: 10.306 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:112 Resp: 9644

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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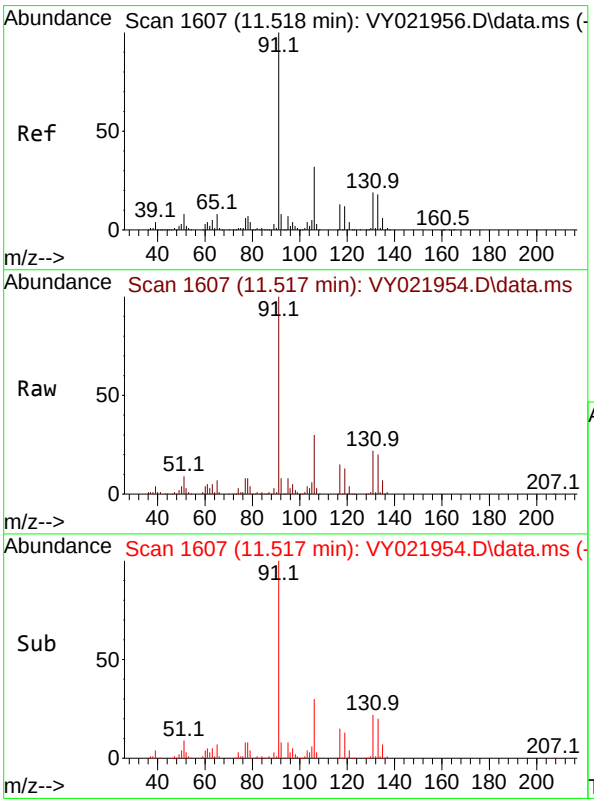
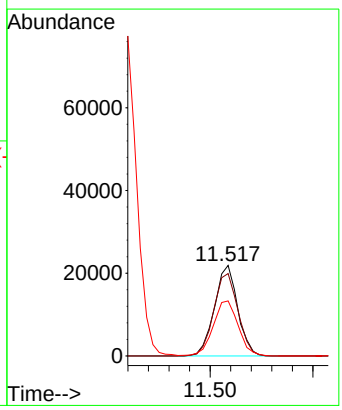
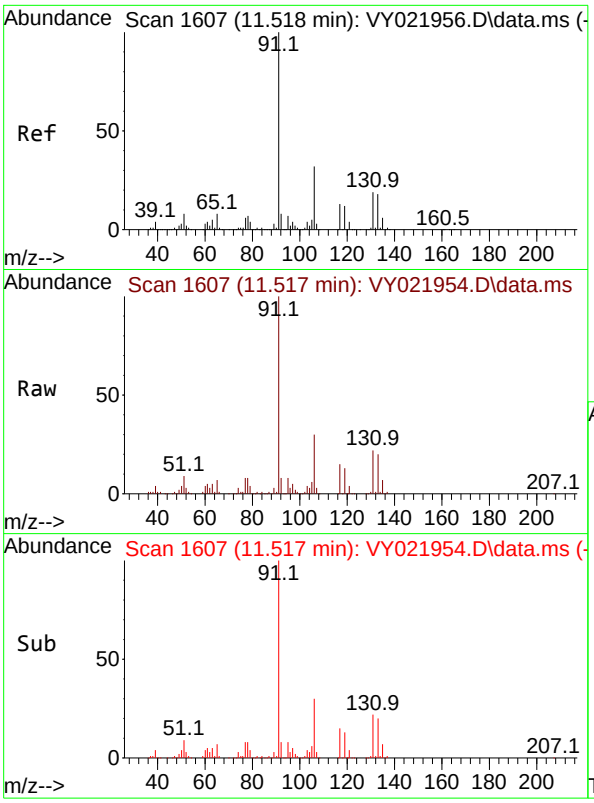


#66
1,1,1,2-Tetrachloroethane
Concen: 10.392 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:131 Resp: 34237

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.8	143.3
119	65.7	32.4	97.0

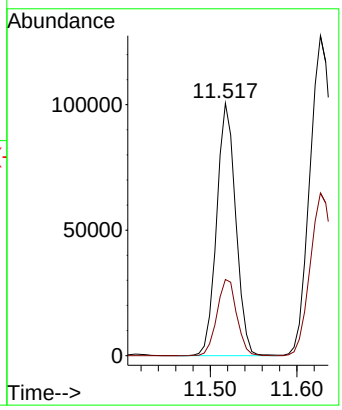




#67
Ethyl Benzene
Concen: 10.058 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 91 Resp: 15397

Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
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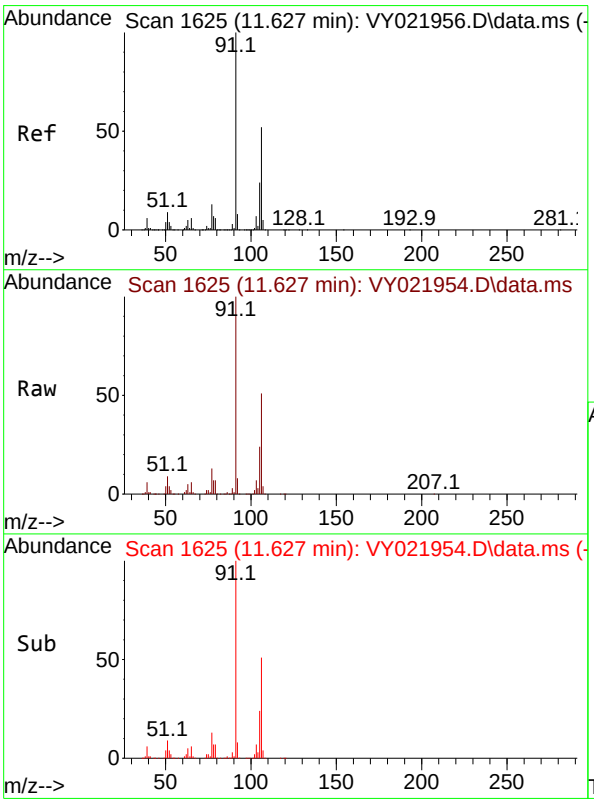
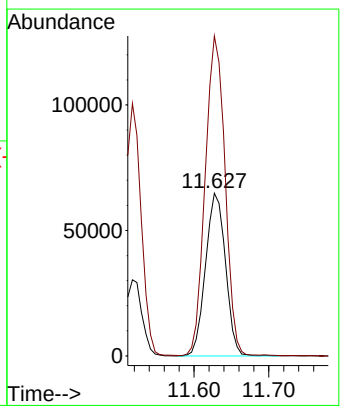
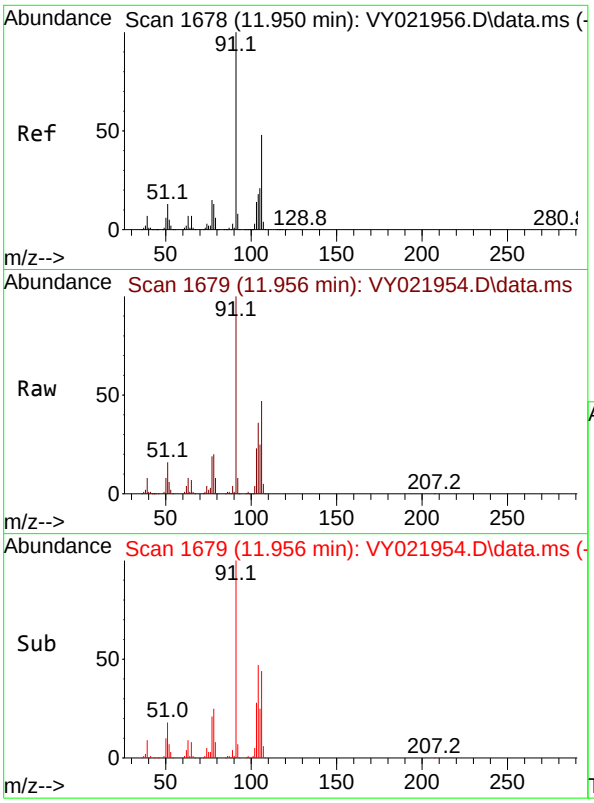


#68
m/p-Xylenes
Concen: 19.789 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:106 Resp: 120544

Ion	Ratio	Lower	Upper
106	100		
91	194.6	156.2	234.2

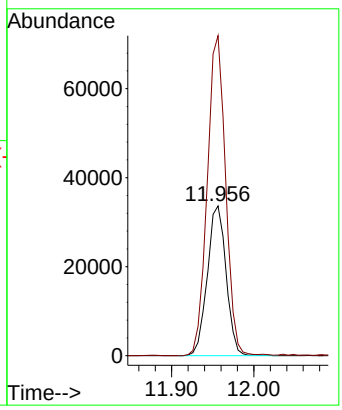




#69
o-Xylene
Concen: 9.521 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:106 Resp: 5345

Ion	Ratio	Lower	Upper
106	100		
91	208.8	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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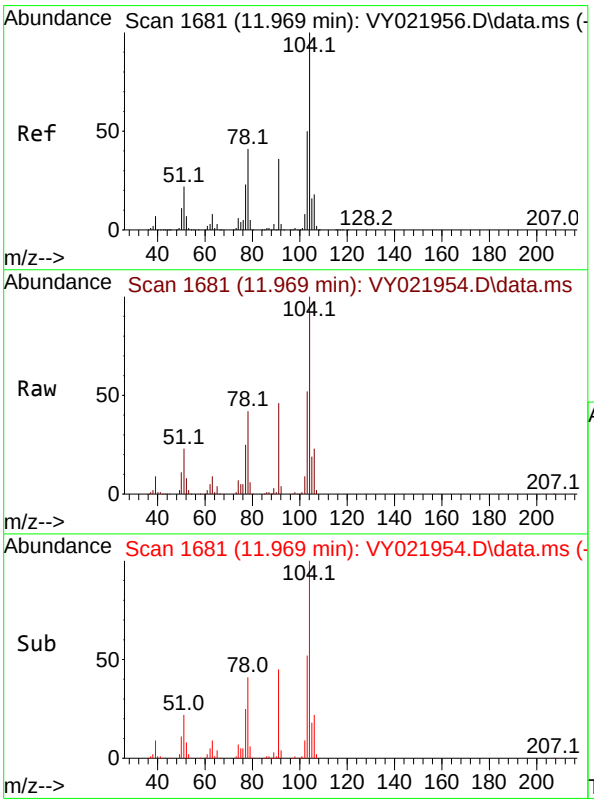
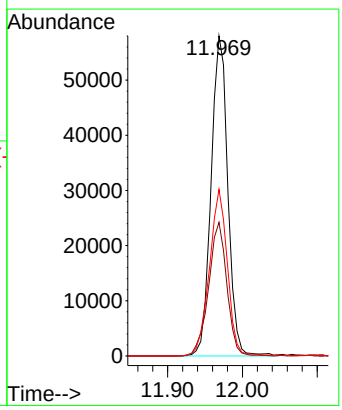
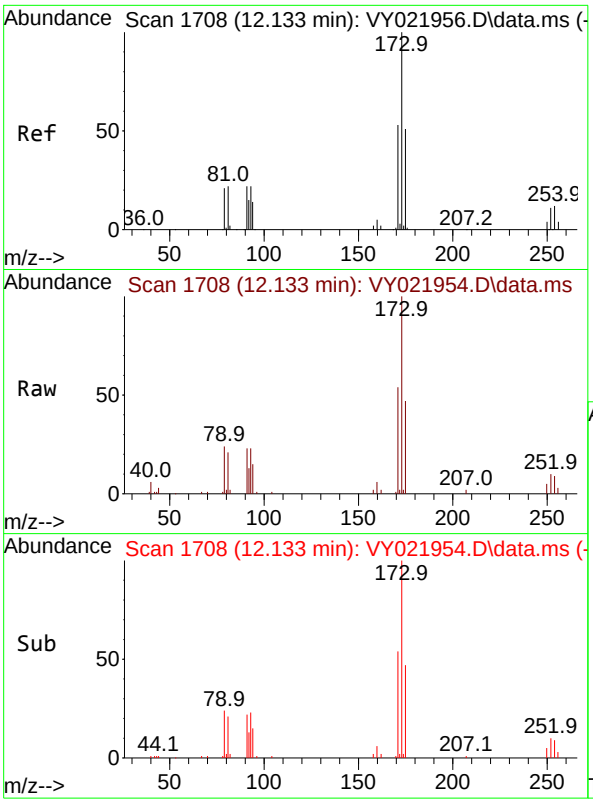


#70
Styrene
Concen: 9.588 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:104 Resp: 90382

Ion	Ratio	Lower	Upper
104	100		
78	45.5	36.6	54.8
103	55.7	43.8	65.8

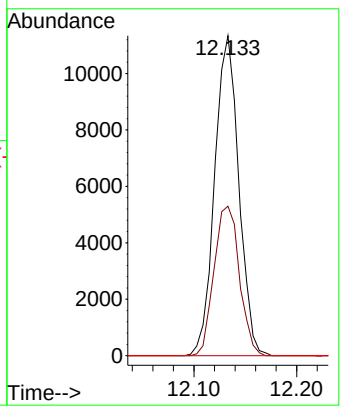




#71
Bromoform
Concen: 9.648 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:173 Resp: 1848

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.3	72.8
254	0.0	0.0	0.0



Instrument :
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ClientSampleId :
VSTDICC010

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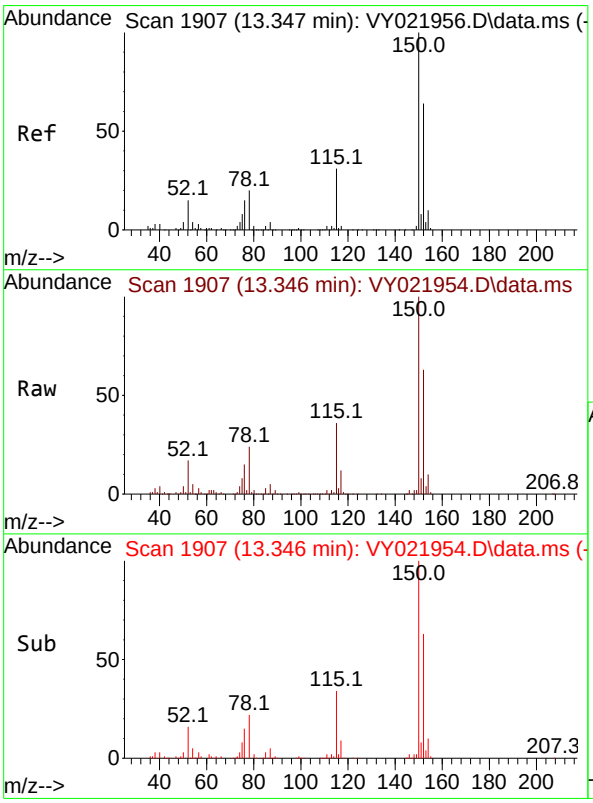
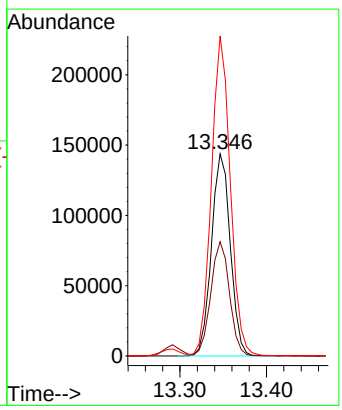
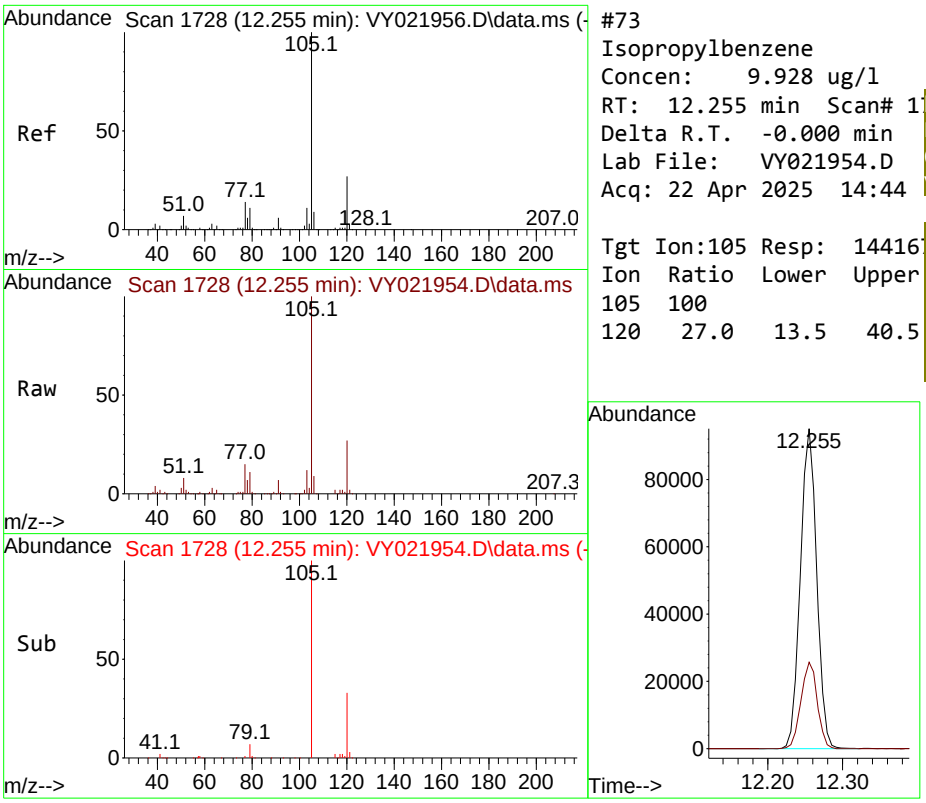


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:152 Resp: 217358

Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.0	84.0
150	158.8	0.0	345.6





#73
Isopropylbenzene
Concen: 9.928 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:105 Resp: 14416

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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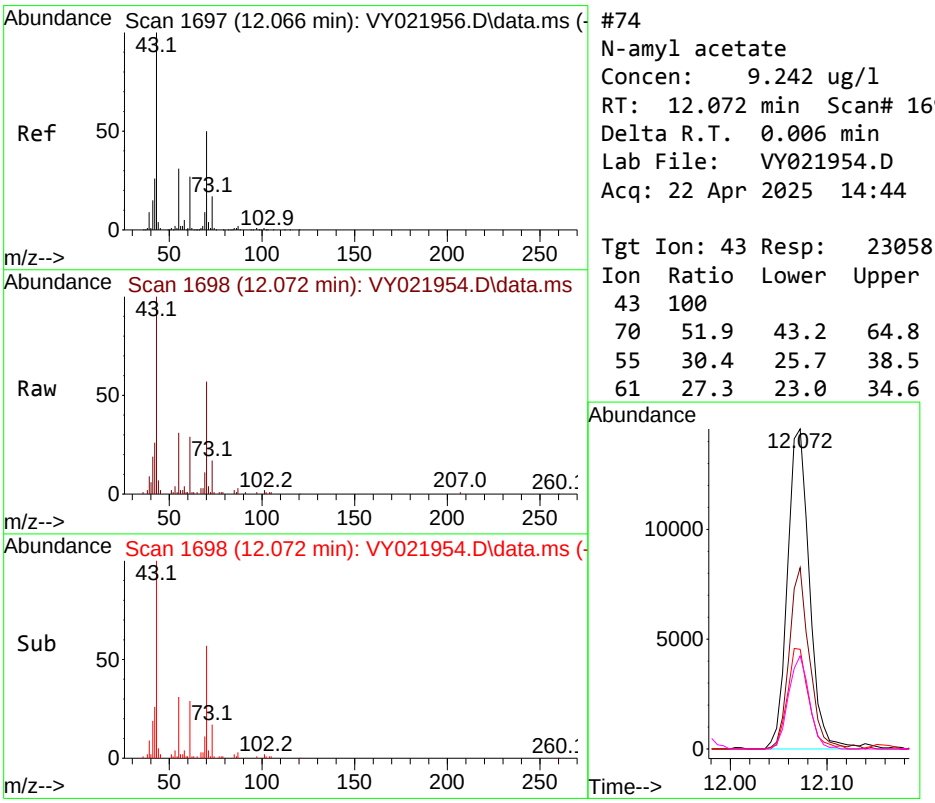
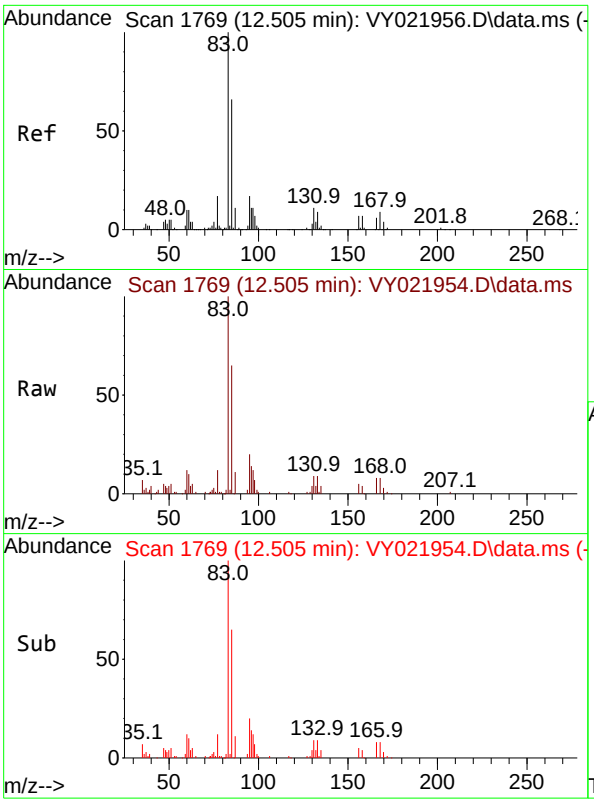


#74
N-amyl acetate
Concen: 9.242 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 43 Resp: 23058

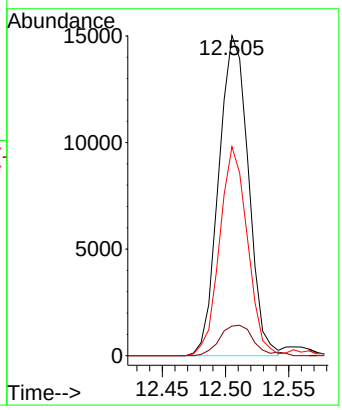
Ion	Ratio	Lower	Upper
43	100		
70	51.9	43.2	64.8
55	30.4	25.7	38.5
61	27.3	23.0	34.6



#75
1,1,2,2-Tetrachloroethane
Concen: 9.971 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 83 Resp: 2441

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.5	16.4
85	61.5	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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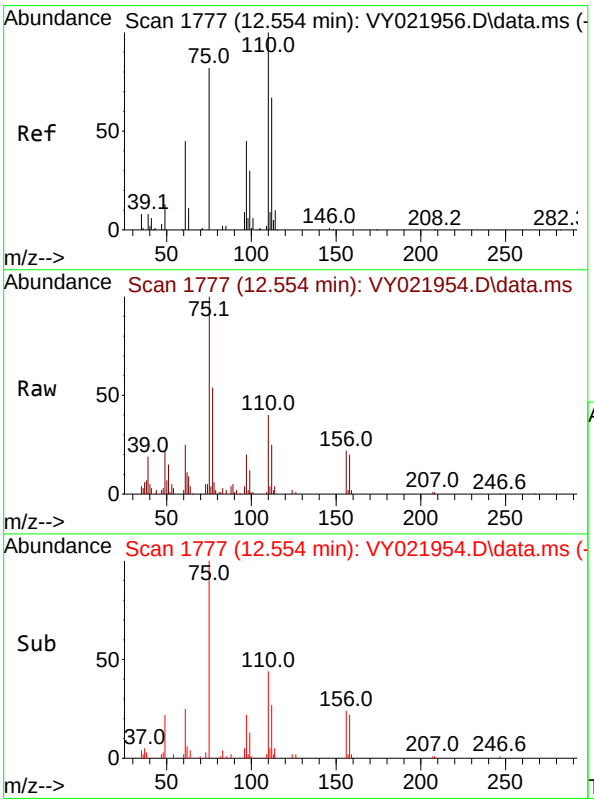
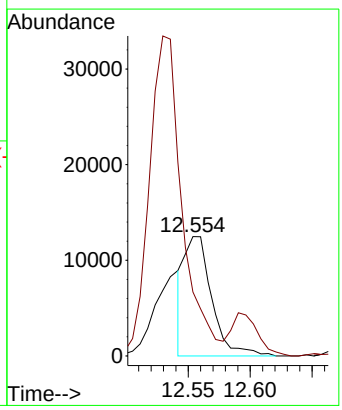
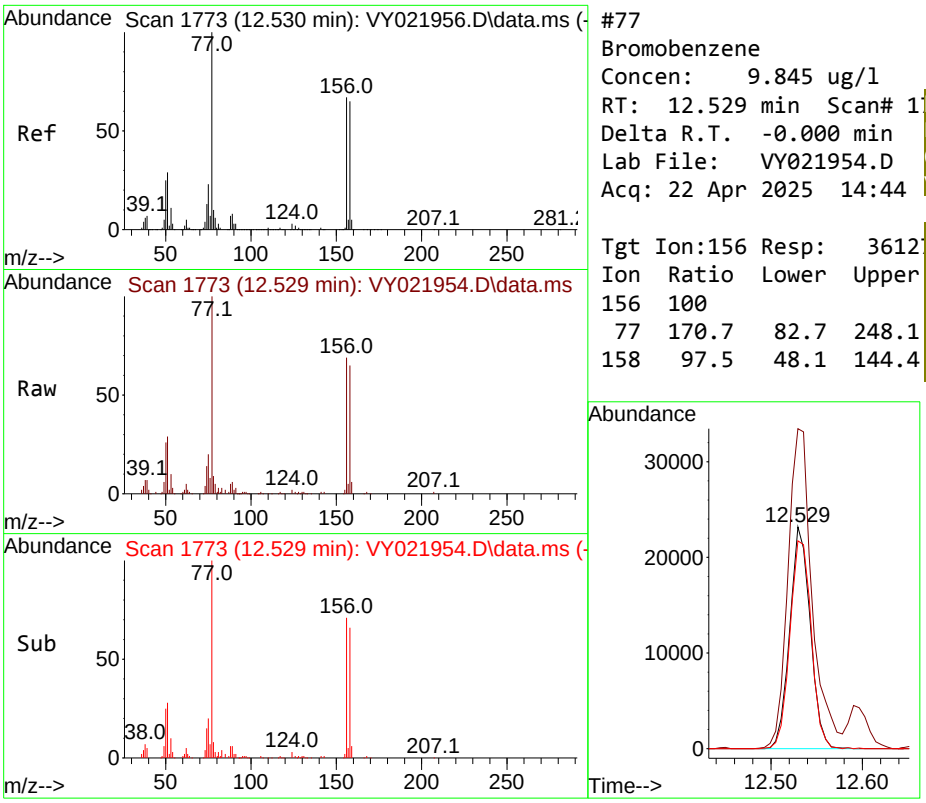


#76
1,2,3-Trichloropropane
Concen: 10.092 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 75 Resp: 19328

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 9.845 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:156 Resp: 3612

Ion	Ratio	Lower	Upper
156	100		
77	170.7	82.7	248.1
158	97.5	48.1	144.4

Instrument :
MSVOA_Y
ClientSampleId :
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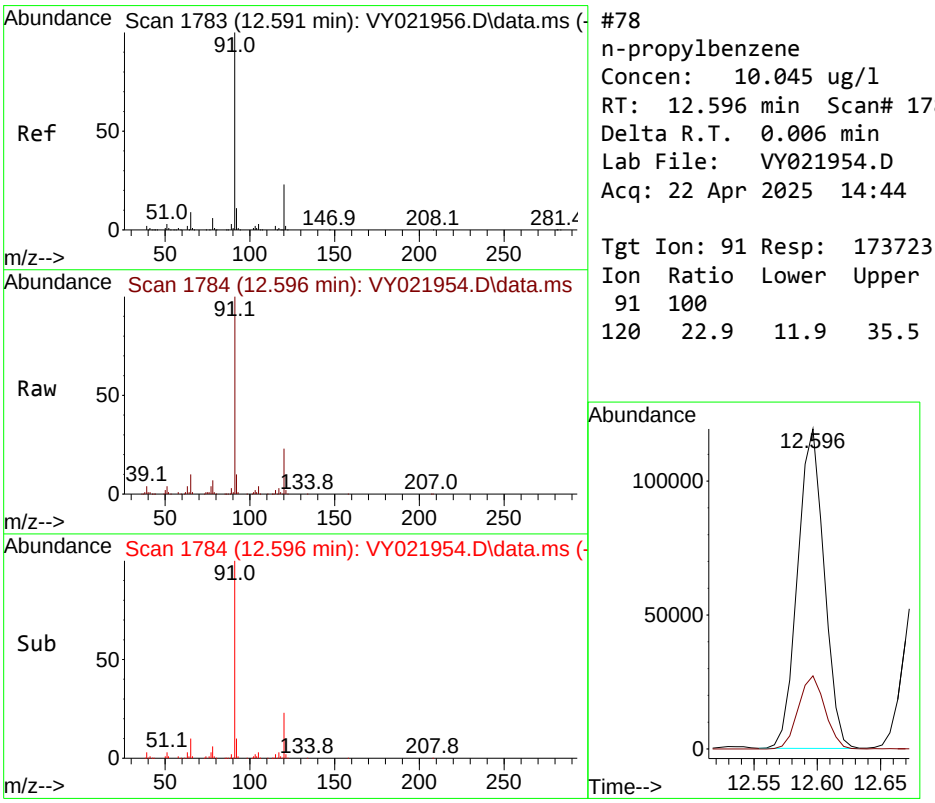
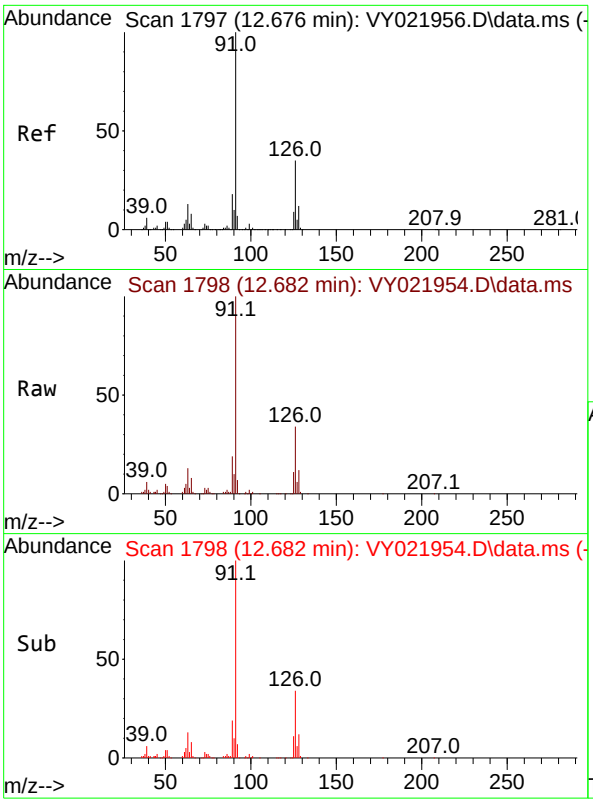


#78
n-propylbenzene
Concen: 10.045 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 91 Resp: 173723

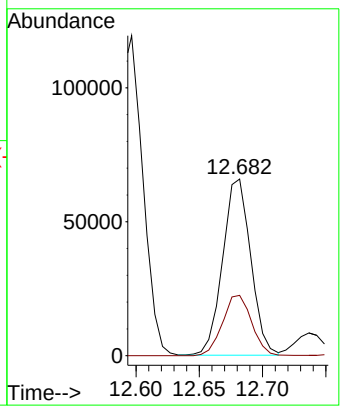
Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.9	35.5



#79
2-Chlorotoluene
Concen: 10.127 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 91 Resp: 10185

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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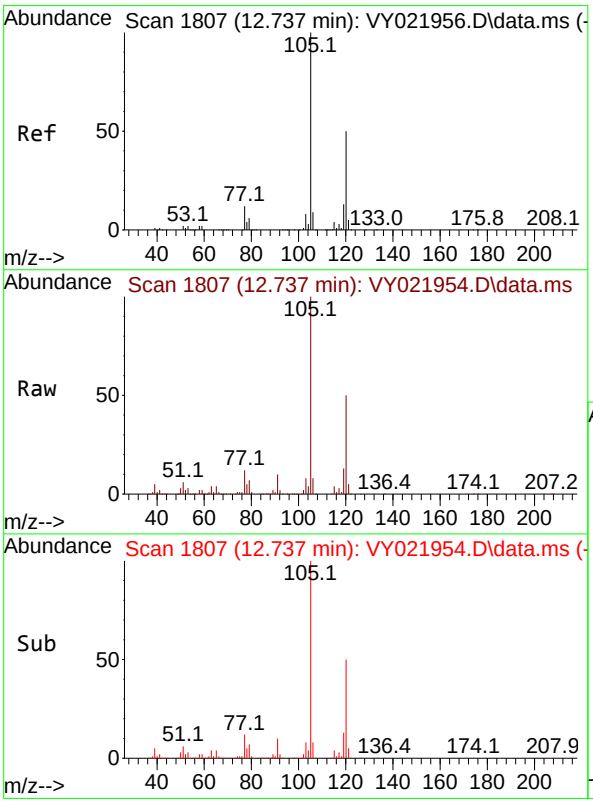
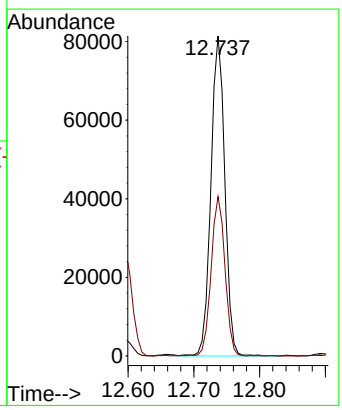
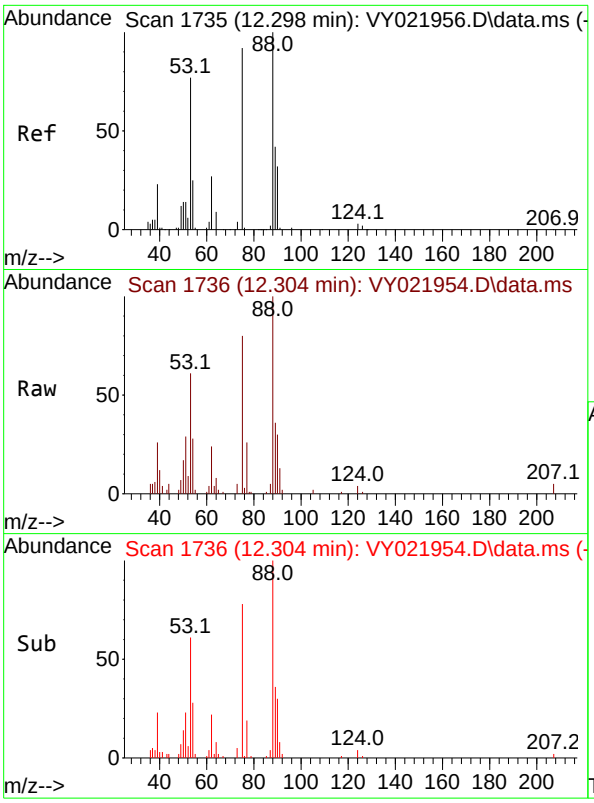


#80
1,3,5-Trimethylbenzene
Concen: 10.018 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:105 Resp: 119871

Ion	Ratio	Lower	Upper
105	100		
120	49.6	25.0	75.0





#81
trans-1,4-Dichloro-2-butene
Concen: 9.773 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 75 Resp: 755

Ion	Ratio	Lower	Upper
75	100		
53	84.6	66.0	99.0
89	47.0	37.2	55.8

Instrument :
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ClientSampleId :
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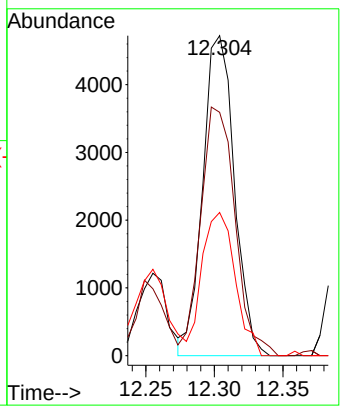
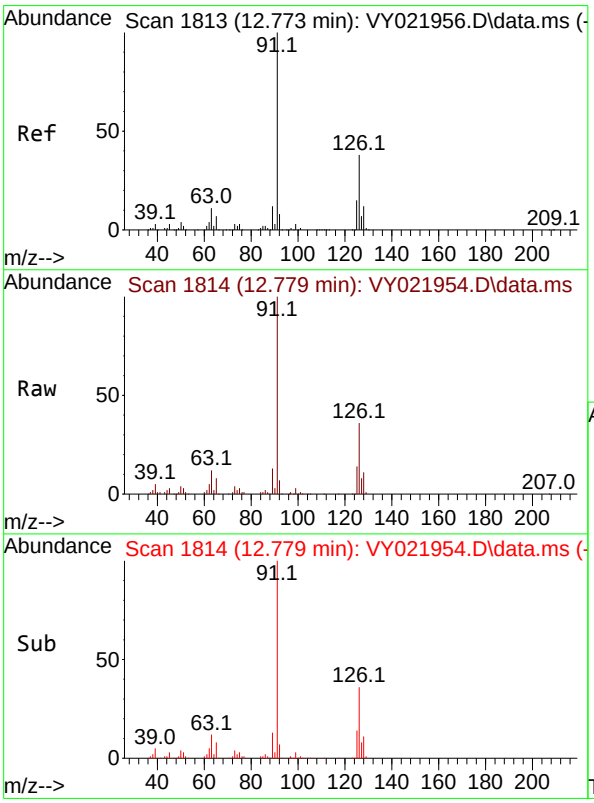
Supervised By :Mahesh Dadoda 04/23/2025

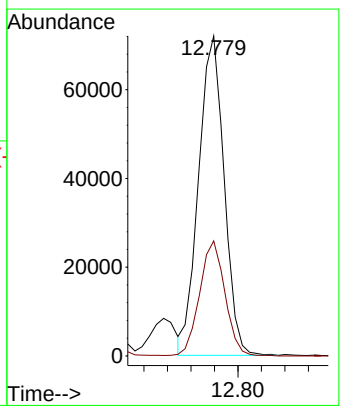


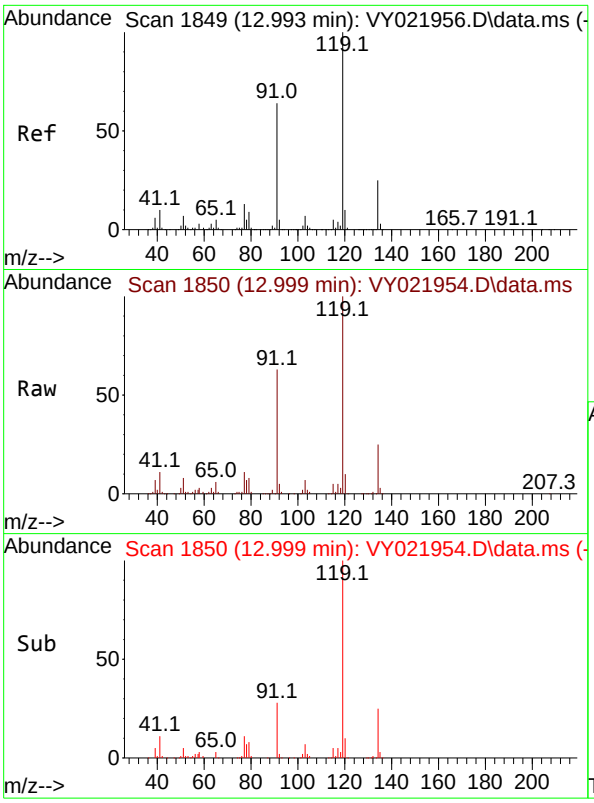


#82
4-Chlorotoluene
Concen: 10.400 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 91 Resp: 108734

Ion	Ratio	Lower	Upper
91	100		
126	35.8	17.9	53.8

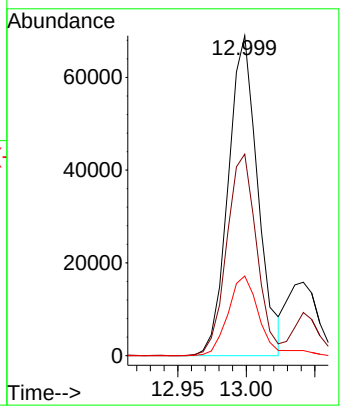




#83
tert-Butylbenzene
Concen: 9.649 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:119 Resp: 10354

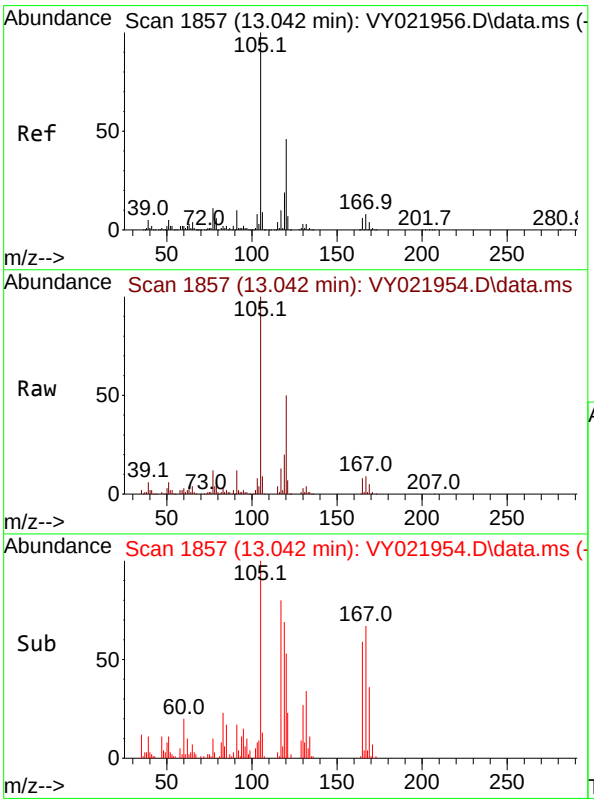
Ion	Ratio	Lower	Upper
119	100		
91	63.8	30.3	90.9
134	26.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

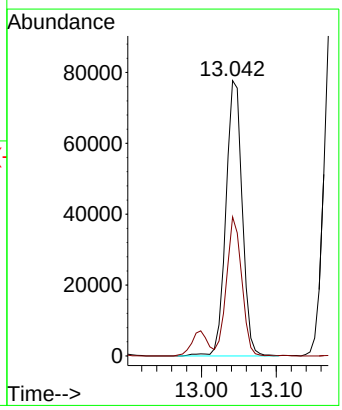
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

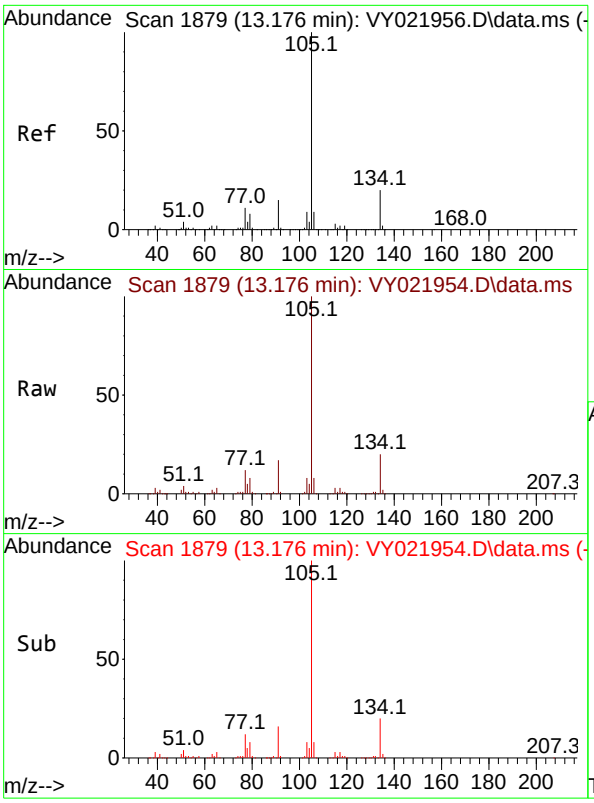


#84
1,2,4-Trimethylbenzene
Concen: 9.870 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:105 Resp: 118119

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.4	70.0

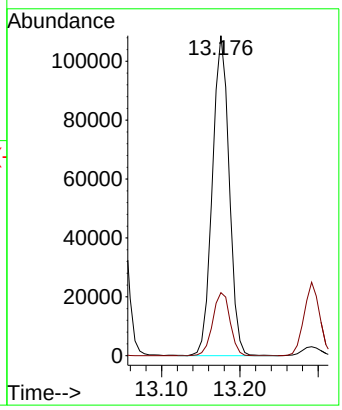




#85
sec-Butylbenzene
Concen: 10.311 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:105 Resp: 16190

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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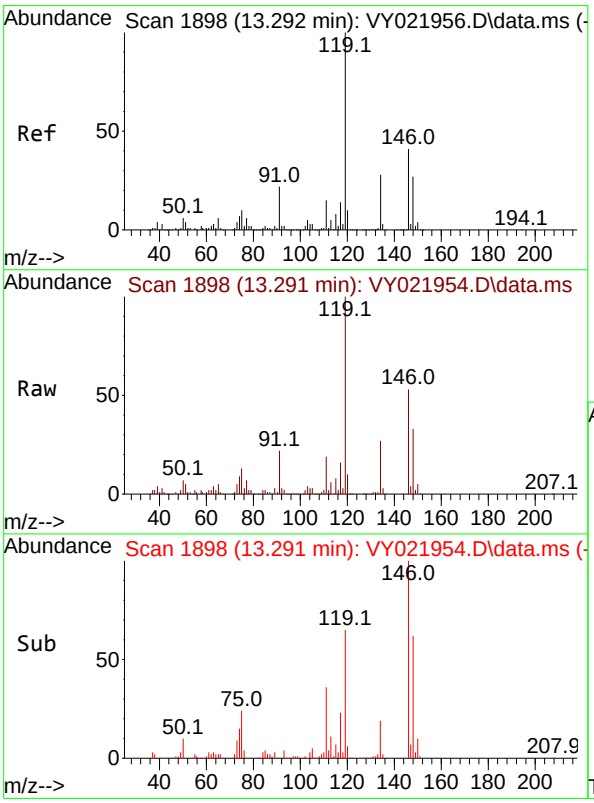
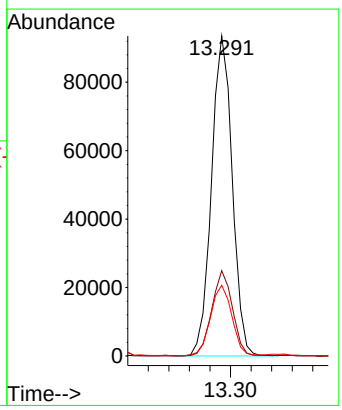
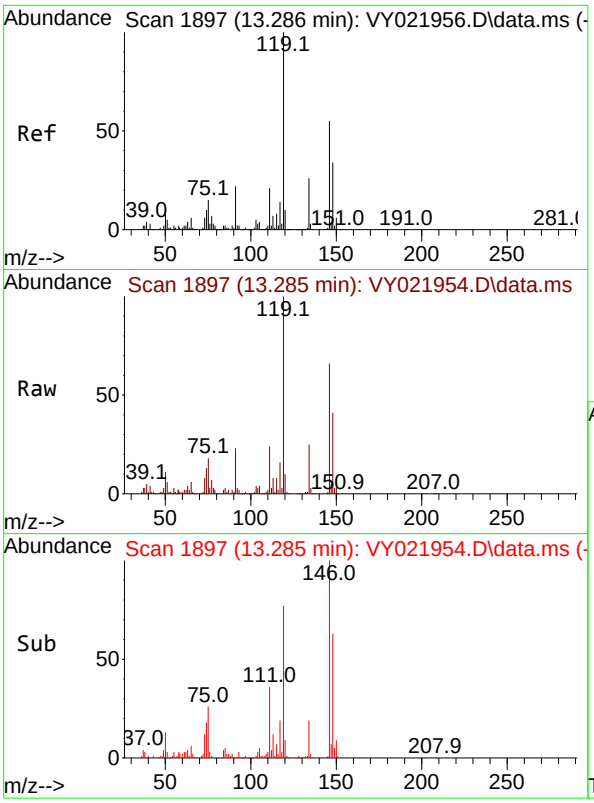


#86
p-Isopropyltoluene
Concen: 9.834 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:119 Resp: 131120

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.6	40.7
91	22.5	11.0	33.0

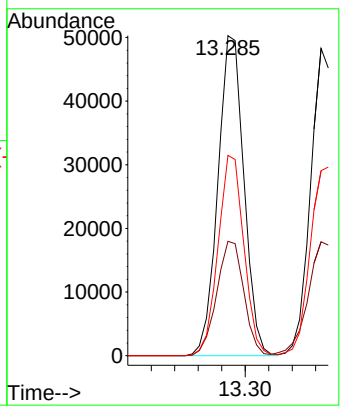




#87
1,3-Dichlorobenzene
Concen: 10.404 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:146 Resp: 7753

Ion	Ratio	Lower	Upper
146	100		
111	37.1	19.1	57.5
148	61.9	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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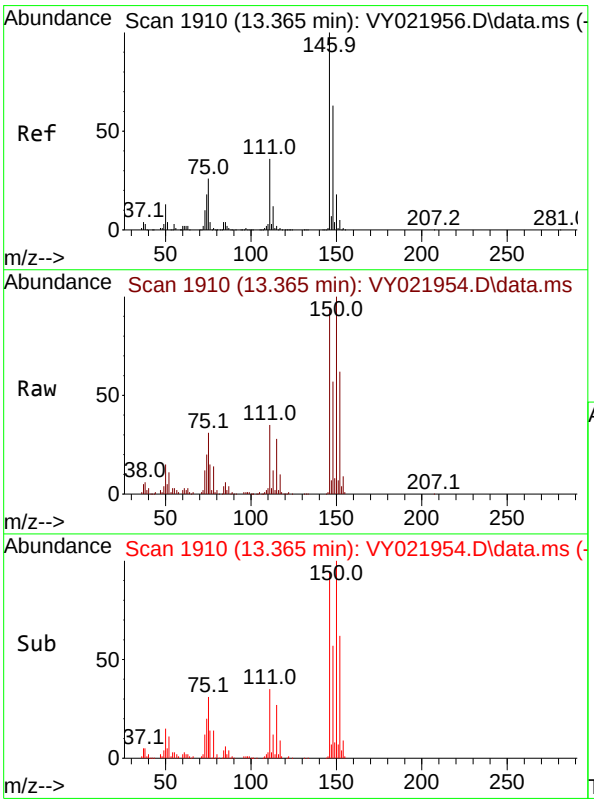
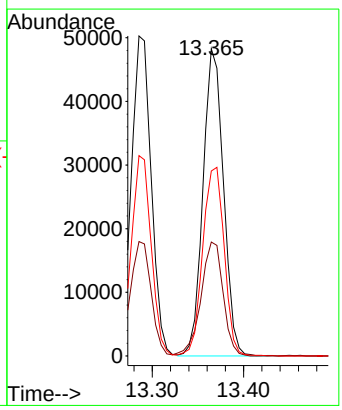
Supervised By :Mahesh Dadoda 04/23/2025

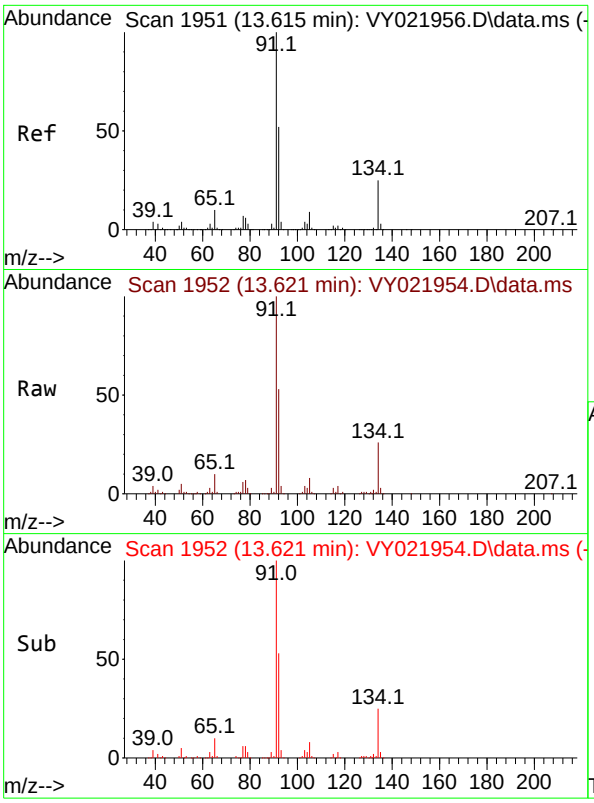


#88
1,4-Dichlorobenzene
Concen: 10.167 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:146 Resp: 75043

Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.2	57.6
148	64.6	32.0	96.0

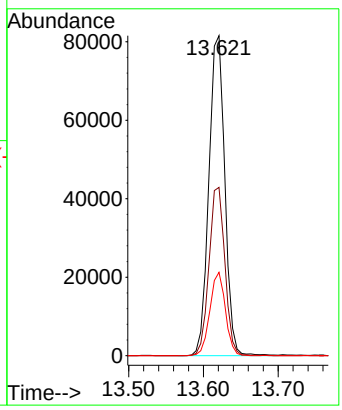




#89
n-Butylbenzene
Concen: 10.177 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 91 Resp: 12129

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.5	79.5
134	25.3	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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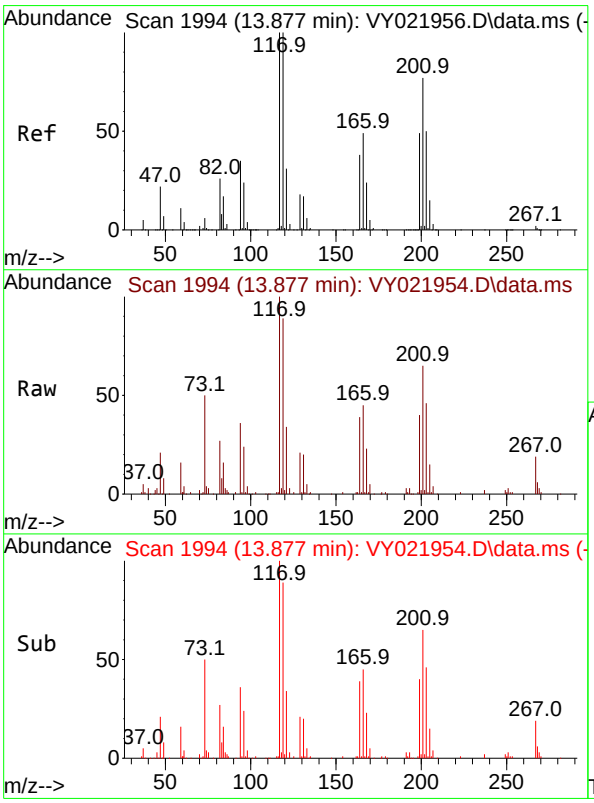
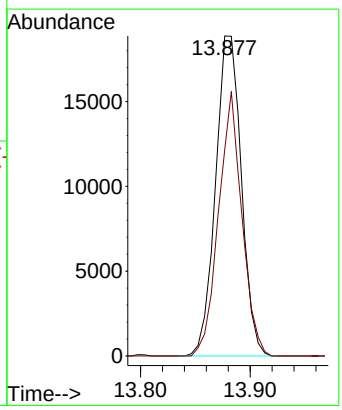
Supervised By :Mahesh Dadoda 04/23/2025

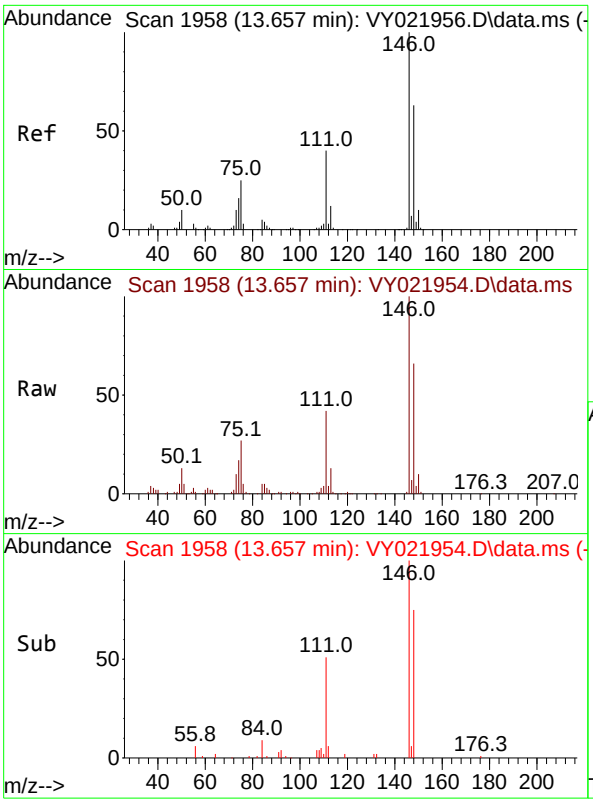


#90
Hexachloroethane
Concen: 10.541 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:117 Resp: 30881

Ion	Ratio	Lower	Upper
117	100		
201	74.6	38.7	116.1

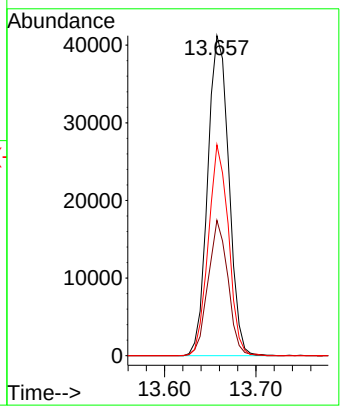




#91
1,2-Dichlorobenzene
Concen: 10.178 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:146 Resp: 6615

Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.1
148	62.9	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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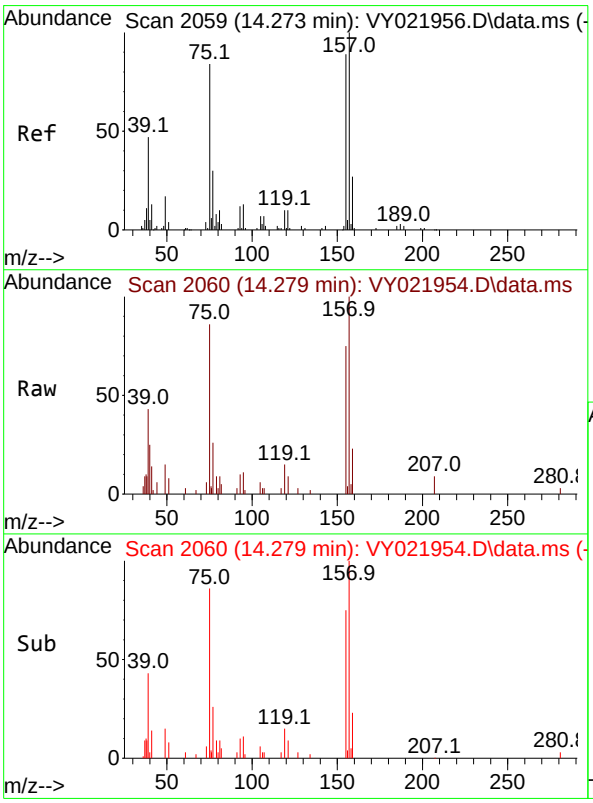
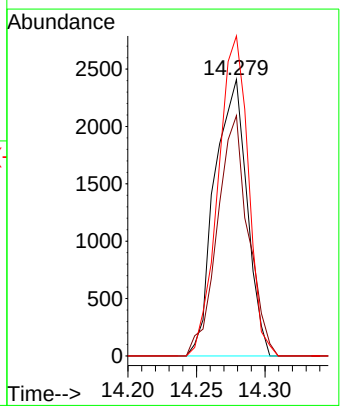
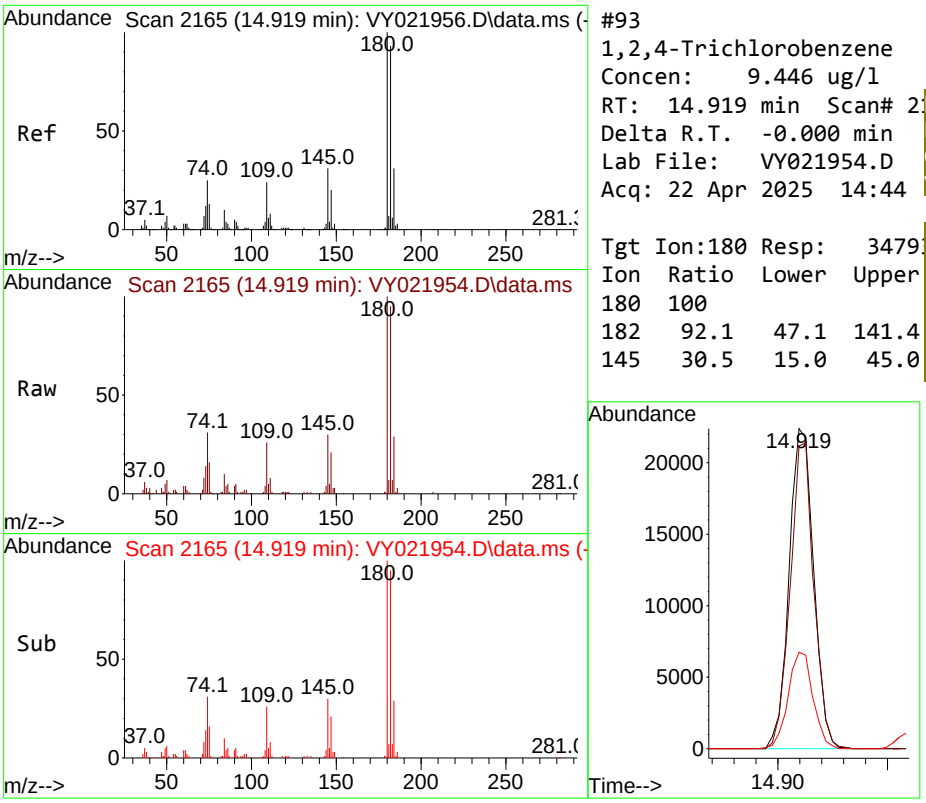


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.153 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion: 75 Resp: 3955

Ion	Ratio	Lower	Upper
75	100		
155	82.8	50.7	152.3
157	108.3	62.6	187.8





#93
1,2,4-Trichlorobenzene
Concen: 9.446 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:180 Resp: 3479

Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.1	141.4
145	30.5	15.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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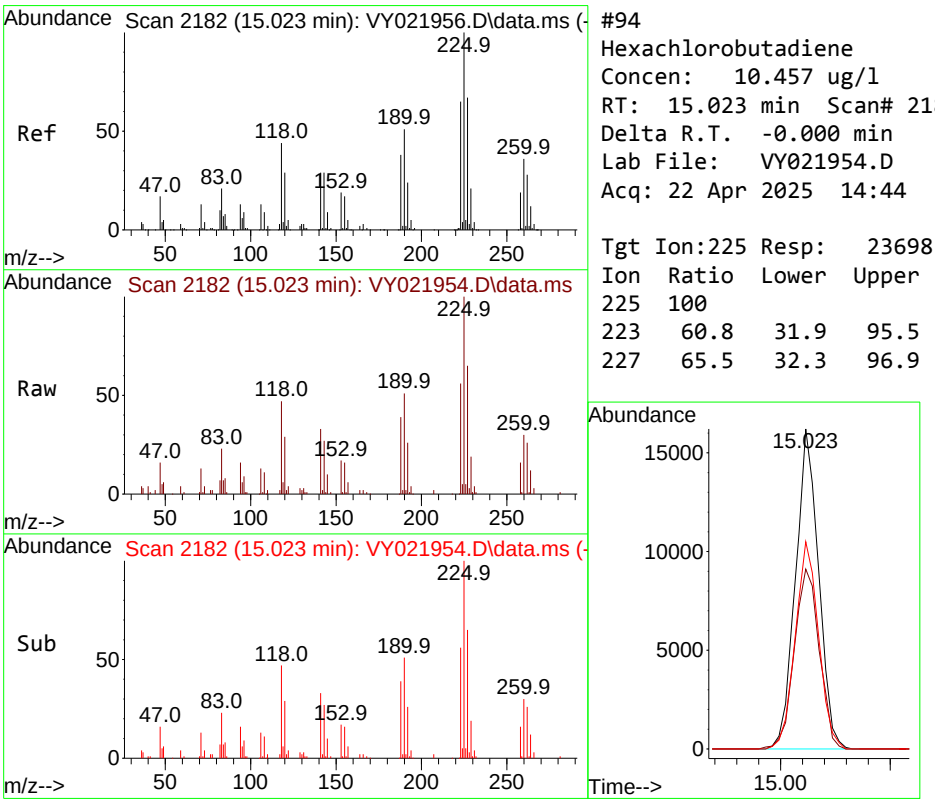
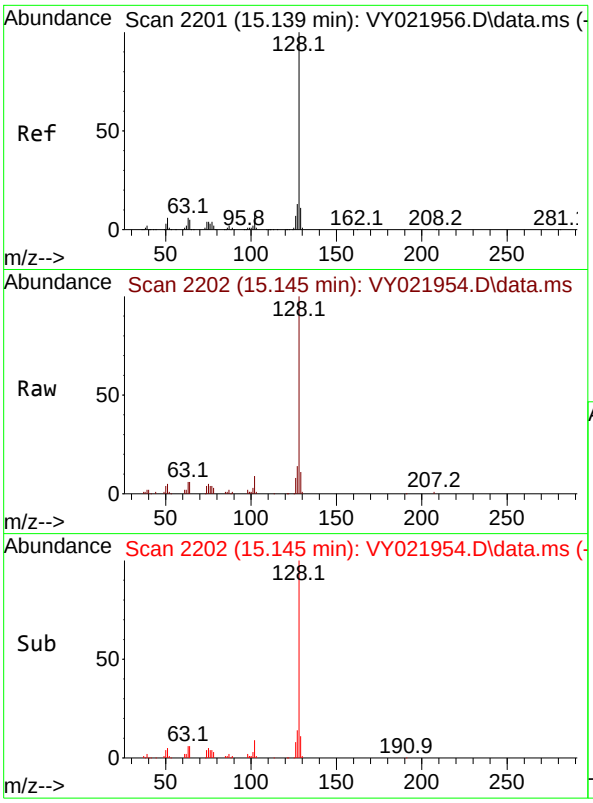
Supervised By :Mahesh Dadoda 04/23/2025



#94
Hexachlorobutadiene
Concen: 10.457 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:225 Resp: 23698

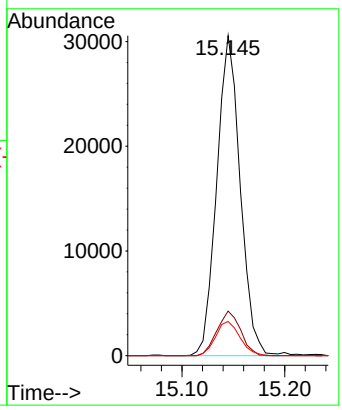
Ion	Ratio	Lower	Upper
225	100		
223	60.8	31.9	95.5
227	65.5	32.3	96.9



#95
Naphthalene
Concen: 7.904 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:128 Resp: 4836

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	16.0
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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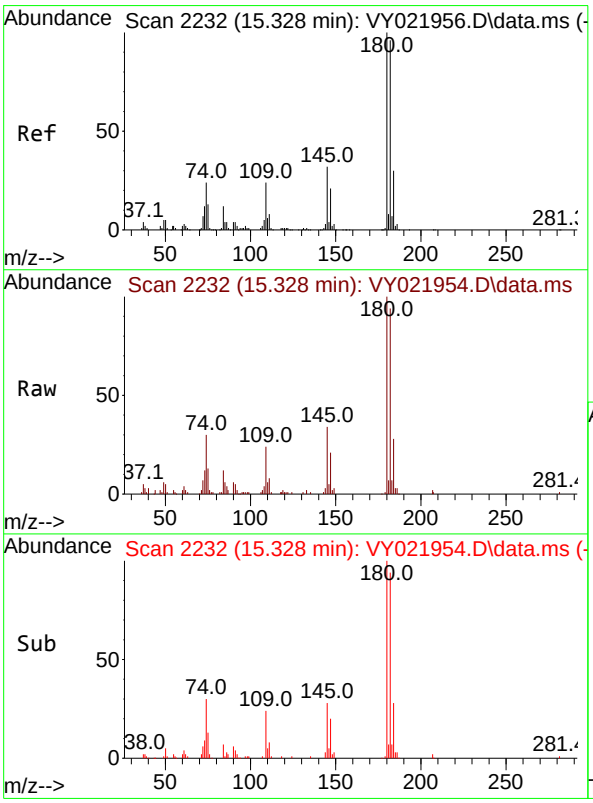
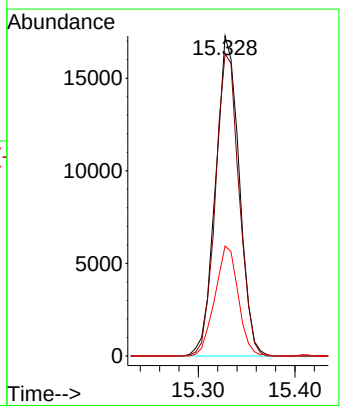


#96
1,2,3-Trichlorobenzene
Concen: 9.207 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY021954.D
Acq: 22 Apr 2025 14:44

Tgt Ion:180 Resp: 29276

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.1	144.4
145	34.0	16.0	48.0



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Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	302781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	479908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	443014	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	236548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55629	19.891	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 39.780%#			
35) Dibromofluoromethane	7.634	113	63419	20.003	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 40.000%#			
50) Toluene-d8	10.103	98	232431	19.446	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 38.900%#			
62) 4-Bromofluorobenzene	12.408	95	77034	19.144	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 38.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	49065	19.018	ug/l	94
3) Chloromethane	2.062	50	76990	20.957	ug/l	99
4) Vinyl Chloride	2.202	62	91757	20.326	ug/l	100
5) Bromomethane	2.586	94	81602	20.981	ug/l	95
6) Chloroethane	2.726	64	63501	20.654	ug/l	99
7) Trichlorofluoromethane	3.050	101	119529	20.079	ug/l	97
8) Diethyl Ether	3.452	74	30609	19.755	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	64172	19.872	ug/l	99
10) Methyl Iodide	4.001	142	73189	19.575	ug/l	100
11) Tert butyl alcohol	4.866	59	16584	108.012	ug/l #	89
12) 1,1-Dichloroethene	3.787	96	58505	19.437	ug/l	97
13) Acrolein	3.653	56	30883	112.069	ug/l	98
14) Allyl chloride	4.379	41	67622	19.294	ug/l	99
15) Acrylonitrile	5.061	53	59926	105.648	ug/l	98
16) Acetone	3.873	43	40190	96.689	ug/l	94
17) Carbon Disulfide	4.098	76	189988	19.796	ug/l	95
18) Methyl Acetate	4.385	43	27988	21.423	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	133523	19.820	ug/l	98
20) Methylene Chloride	4.610	84	69571	19.673	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	64547	19.148	ug/l	92
22) Diisopropyl ether	6.012	45	159414	20.439	ug/l	96
23) Vinyl Acetate	5.958	43	424128	100.901	ug/l	100
24) 1,1-Dichloroethane	5.915	63	108156	20.006	ug/l	99
25) 2-Butanone	6.896	43	65464	102.688	ug/l	96
26) 2,2-Dichloropropane	6.878	77	92415	19.503	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	73114	19.398	ug/l	97
28) Bromochloromethane	7.244	49	44154	21.027	ug/l	99
29) Tetrahydrofuran	7.262	42	43665	105.459	ug/l	99
30) Chloroform	7.421	83	117934	19.666	ug/l	97
31) Cyclohexane	7.701	56	89380	19.333	ug/l	91
32) 1,1,1-Trichloroethane	7.610	97	108468	19.993	ug/l	98
36) 1,1-Dichloropropene	7.835	75	81459	19.127	ug/l	99
37) Ethyl Acetate	6.982	43	31319	20.755	ug/l	99
38) Carbon Tetrachloride	7.817	117	98308	19.318	ug/l	98
39) Methylcyclohexane	9.109	83	99570	18.578	ug/l	95
40) Benzene	8.079	78	259371	19.482	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 23 02:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	19946m	23.846	ug/l		
42) 1,2-Dichloroethane	8.158	62	67235	20.398	ug/l		100
43) Isopropyl Acetate	8.195	43	60204	20.495	ug/l	#	87
44) Trichloroethene	8.866	130	70896	19.226	ug/l		96
45) 1,2-Dichloropropane	9.140	63	57934	19.678	ug/l		98
46) Dibromomethane	9.225	93	36893	20.018	ug/l		97
47) Bromodichloromethane	9.420	83	89049	19.341	ug/l		99
48) Methyl methacrylate	9.219	41	28211	20.775	ug/l		97
49) 1,4-Dioxane	9.237	88	8497	432.566	ug/l		96
51) 4-Methyl-2-Pentanone	9.999	43	159902	103.844	ug/l		99
52) Toluene	10.170	92	168035	19.499	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	76629	19.404	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	92726	19.753	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	50105	20.353	ug/l		99
56) Ethyl methacrylate	10.438	69	55703	19.786	ug/l		99
57) 1,3-Dichloropropane	10.713	76	77652	19.676	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	140435	102.027	ug/l		99
59) 2-Hexanone	10.762	43	104321	102.714	ug/l		98
60) Dibromochloromethane	10.908	129	67988	19.948	ug/l		99
61) 1,2-Dibromoethane	11.012	107	46699	20.093	ug/l		98
64) Tetrachloroethene	10.646	164	81915	19.600	ug/l		98
65) Chlorobenzene	11.438	112	186901	18.866	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	66586	19.091	ug/l		99
67) Ethyl Benzene	11.518	91	304501	18.789	ug/l		99
68) m/p-Xylenes	11.627	106	247677	38.407	ug/l		99
69) o-Xylene	11.956	106	112603	18.945	ug/l		100
70) Styrene	11.969	104	191106	19.149	ug/l		99
71) Bromoform	12.133	173	39690	19.573	ug/l	#	98
73) Isopropylbenzene	12.255	105	293481	18.570	ug/l		100
74) N-amyl acetate	12.072	43	52325	19.271	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	52524	19.713	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	39530m	18.965	ug/l		
77) Bromobenzene	12.530	156	73838	18.490	ug/l		97
78) n-propylbenzene	12.597	91	357438	18.992	ug/l		99
79) 2-Chlorotoluene	12.676	91	206212	18.840	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	247372	18.997	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	16123	19.163	ug/l		96
82) 4-Chlorotoluene	12.773	91	214776	18.876	ug/l		100
83) tert-Butylbenzene	12.999	119	214149	18.337	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	248902	19.110	ug/l		99
85) sec-Butylbenzene	13.176	105	322522	18.873	ug/l		100
86) p-Isopropyltoluene	13.292	119	271440	18.706	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	150873	18.602	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	151864	18.905	ug/l		99
89) n-Butylbenzene	13.615	91	240816	18.566	ug/l		98
90) Hexachloroethane	13.877	117	58060	18.211	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	135650	19.175	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8864	20.910	ug/l		89
93) 1,2,4-Trichlorobenzene	14.919	180	74289	18.532	ug/l		99
94) Hexachlorobutadiene	15.023	225	45722	18.538	ug/l		98
95) Naphthalene	15.145	128	121454	18.238	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	64735	18.707	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 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\VY042225\
Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 23 02:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
VSTDICC020

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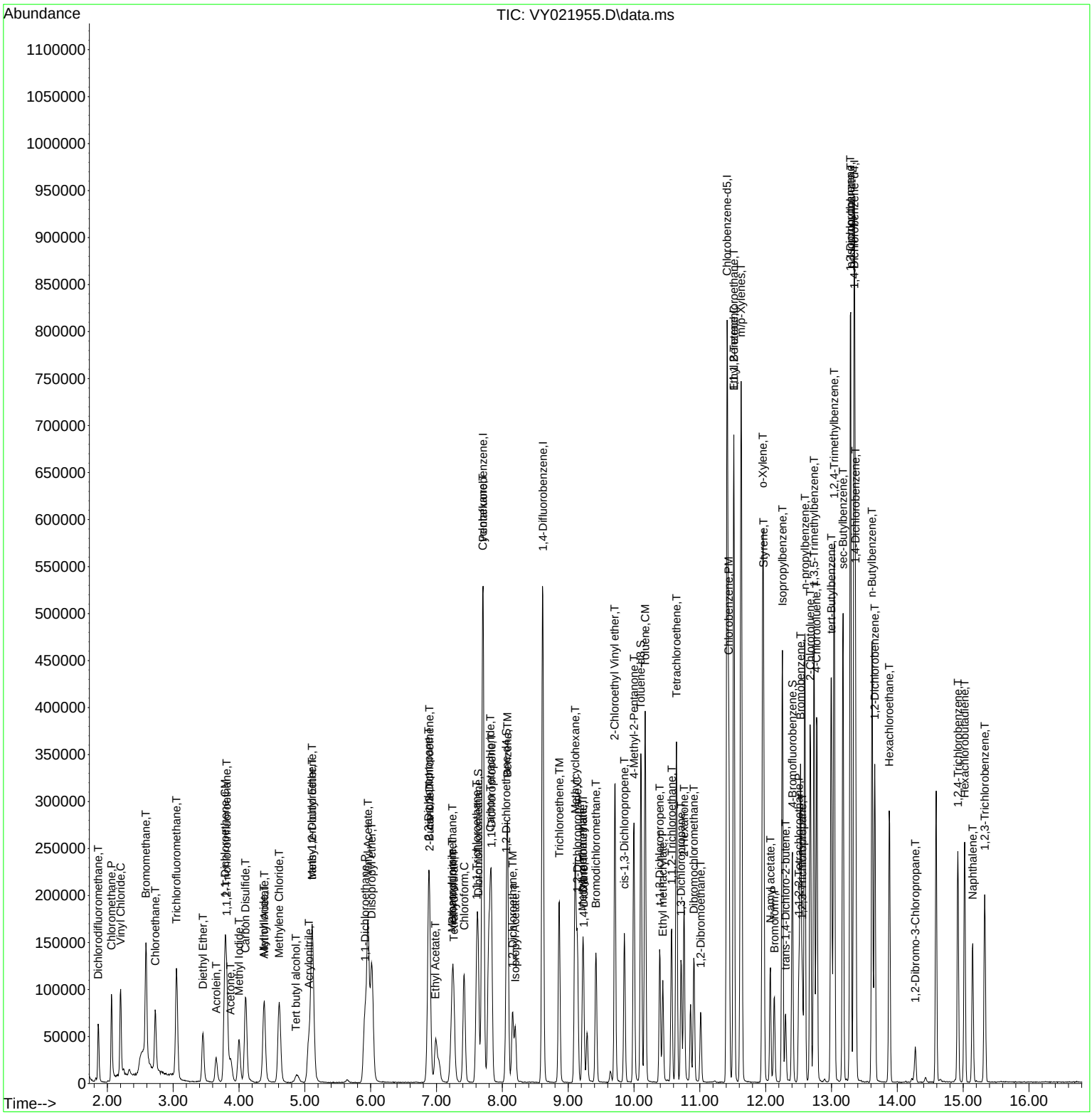
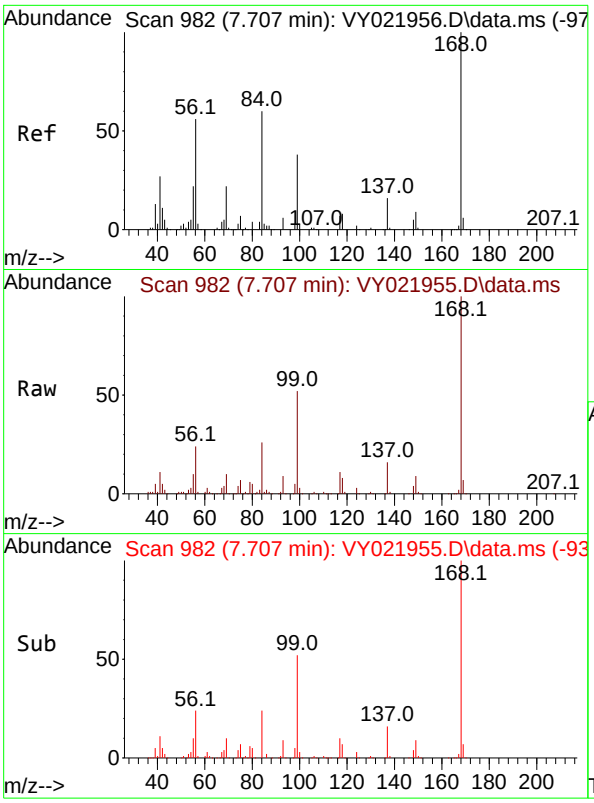
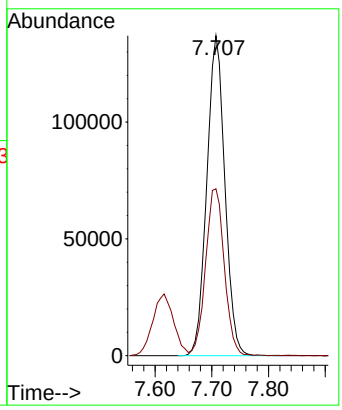




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:168 Resp: 30278

Ion	Ratio	Lower	Upper
168	100		
99	52.1	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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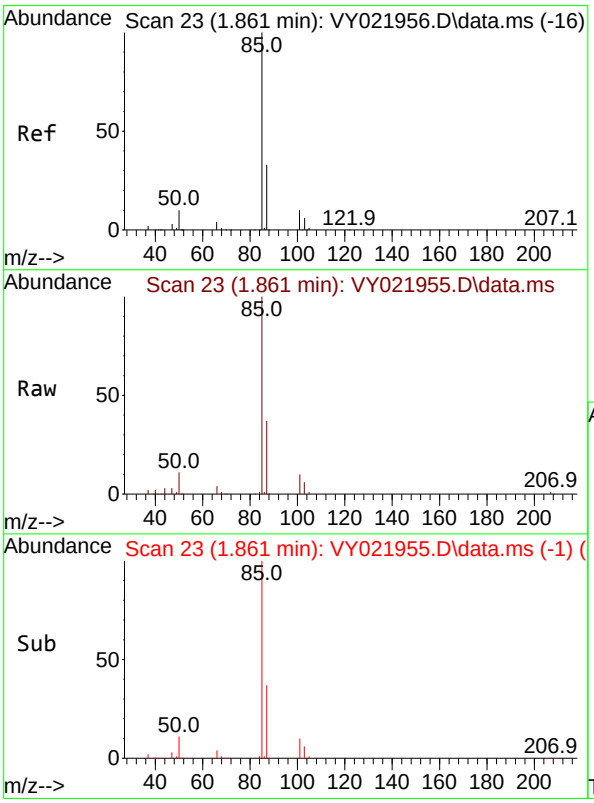
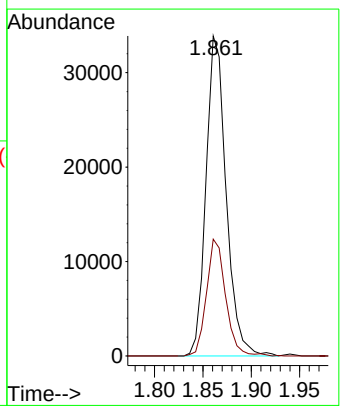
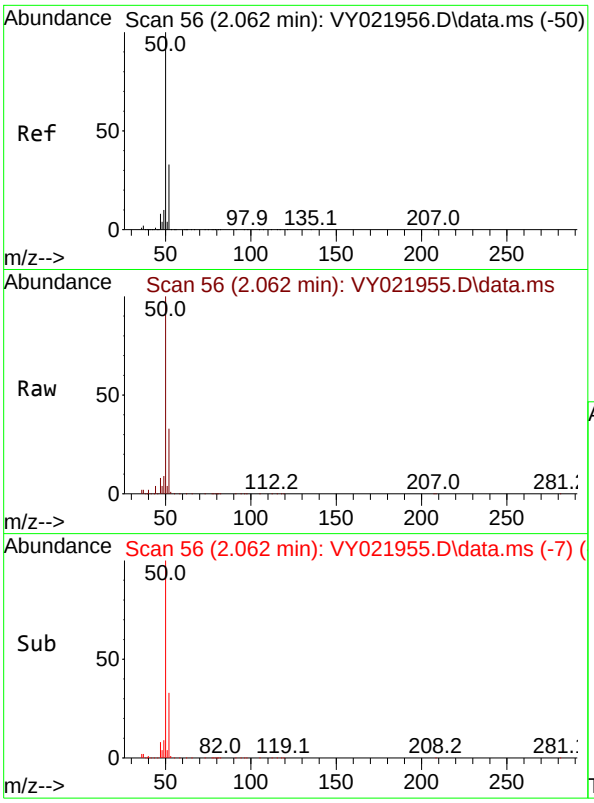


#2
Dichlorodifluoromethane
Concen: 19.018 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 85 Resp: 49065

Ion	Ratio	Lower	Upper
85	100		
87	36.5	16.6	49.7

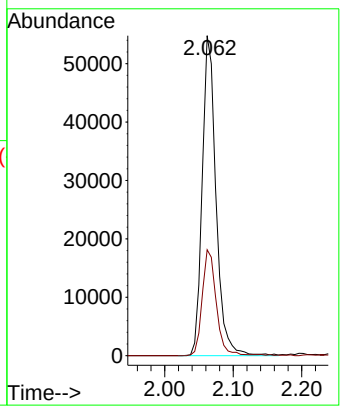




#3
Chloromethane
Concen: 20.957 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 50 Resp: 7699

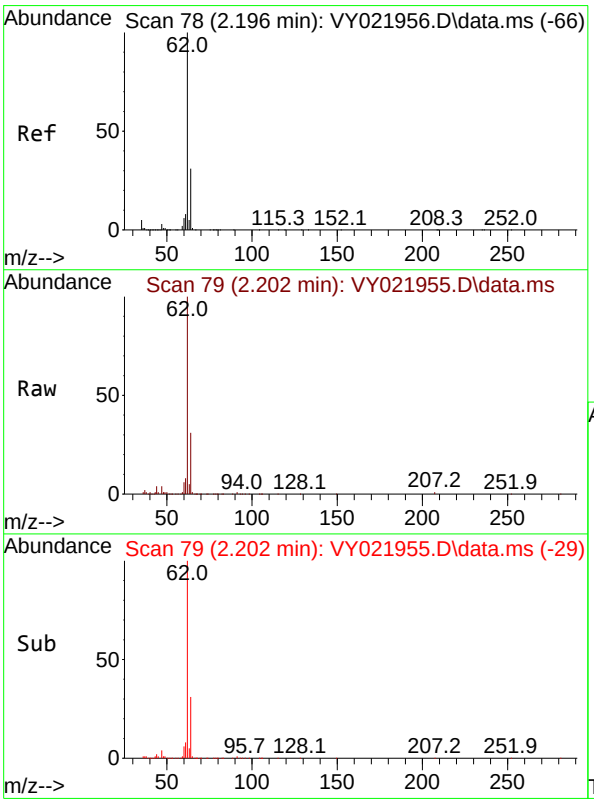
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

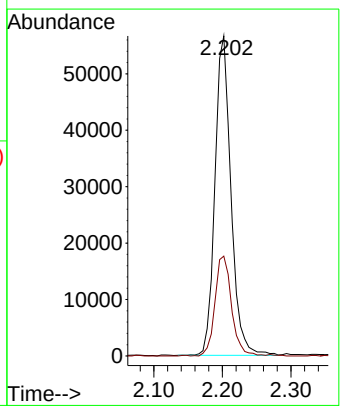
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

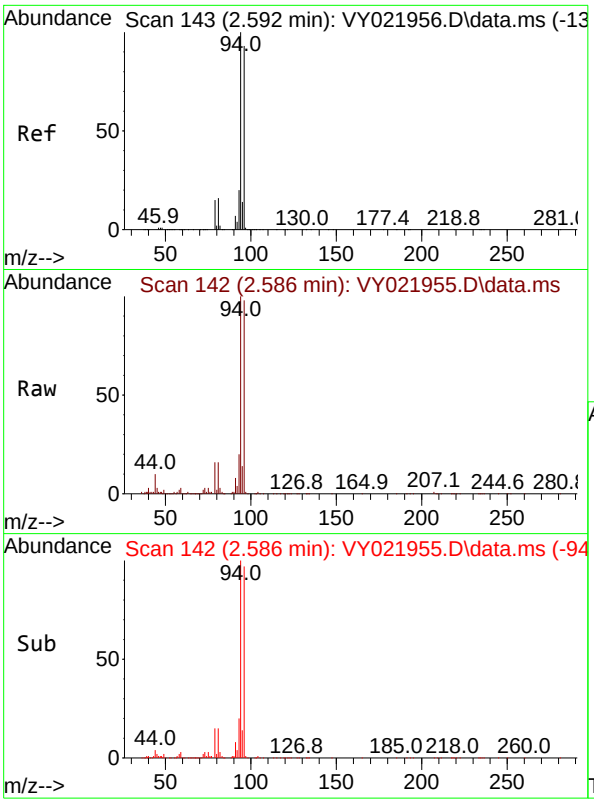


#4
Vinyl Chloride
Concen: 20.326 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 62 Resp: 91757

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.1	37.7

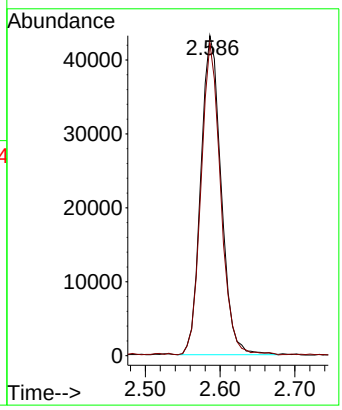




#5
Bromomethane
Concen: 20.981 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 94 Resp: 8160

Ion	Ratio	Lower	Upper
94	100		
96	97.7	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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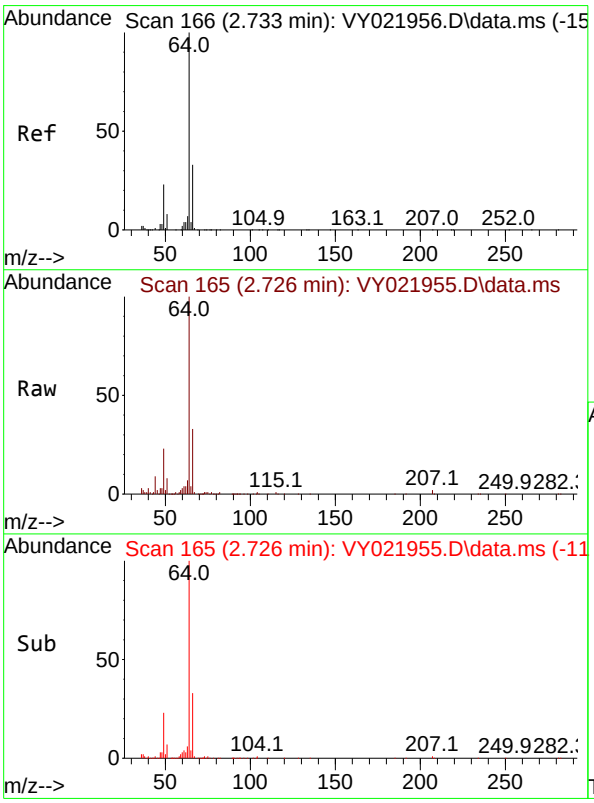
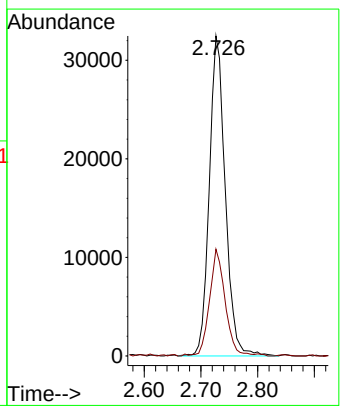
Supervised By :Mahesh Dadoda 04/23/2025

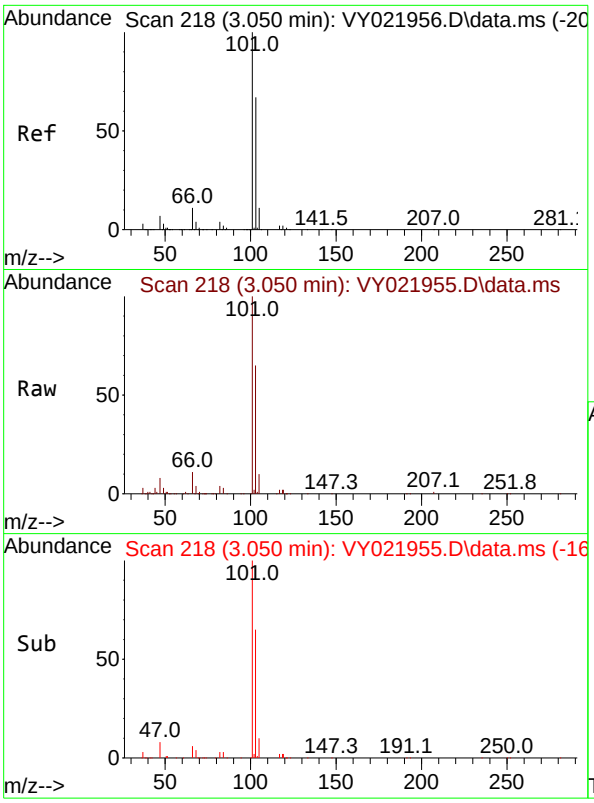


#6
Chloroethane
Concen: 20.654 ug/l
RT: 2.726 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 64 Resp: 63501

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.2	39.4

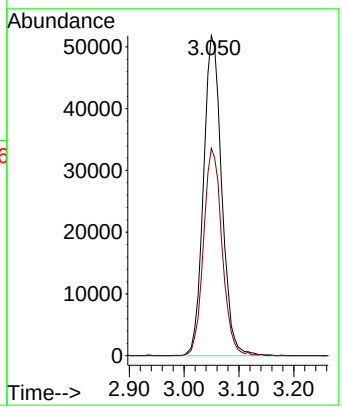




#7
Trichlorofluoromethane
Concen: 20.079 ug/l
RT: 3.050 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:101 Resp: 11952

Ion	Ratio	Lower	Upper
101	100		
103	64.8	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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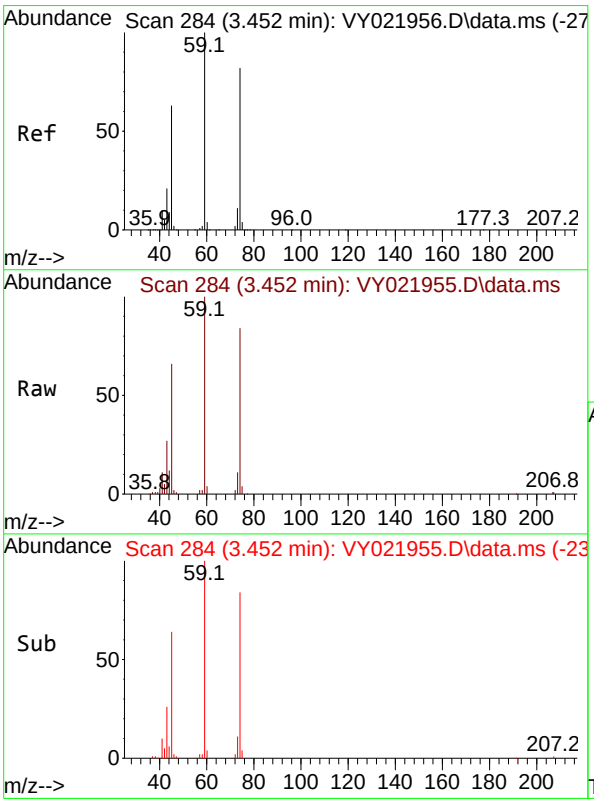
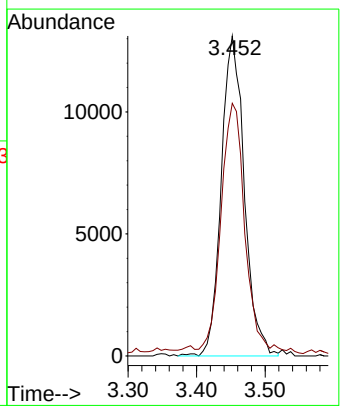
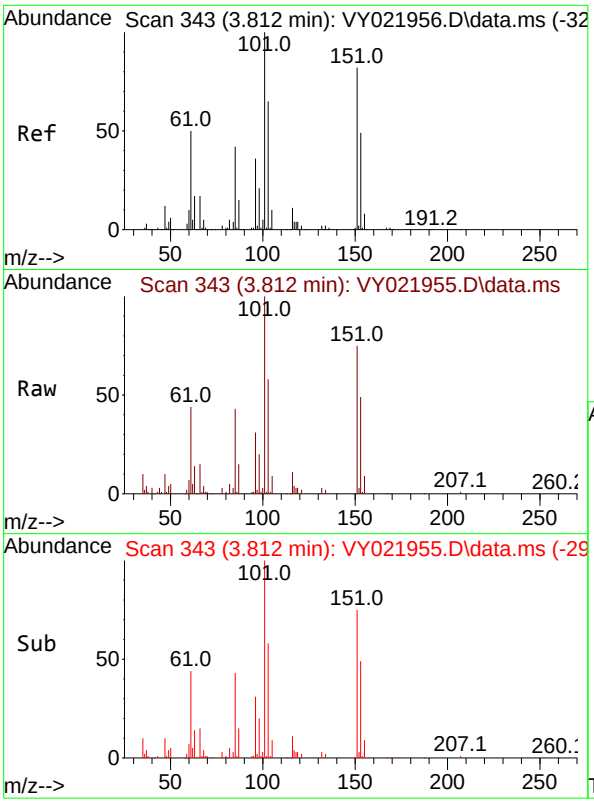


#8
Diethyl Ether
Concen: 19.755 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 74 Resp: 30609

Ion	Ratio	Lower	Upper
74	100		
45	81.9	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.872 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:101 Resp: 6417

Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.6	51.8
151	78.5	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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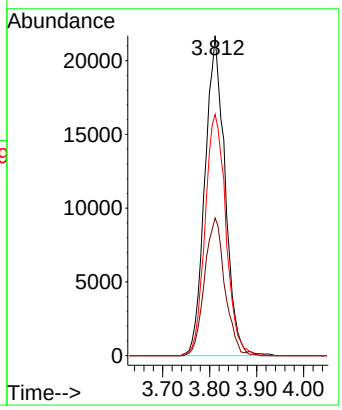
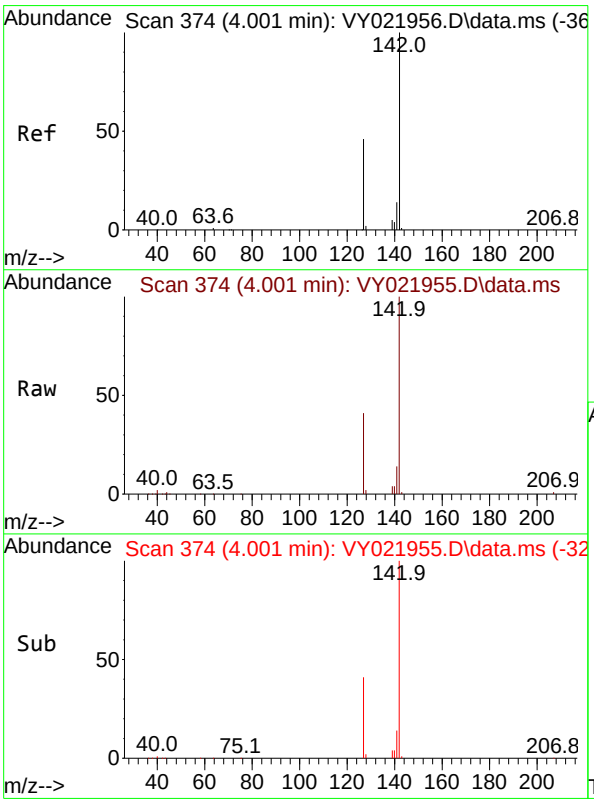
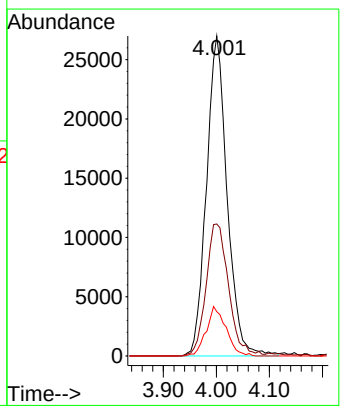


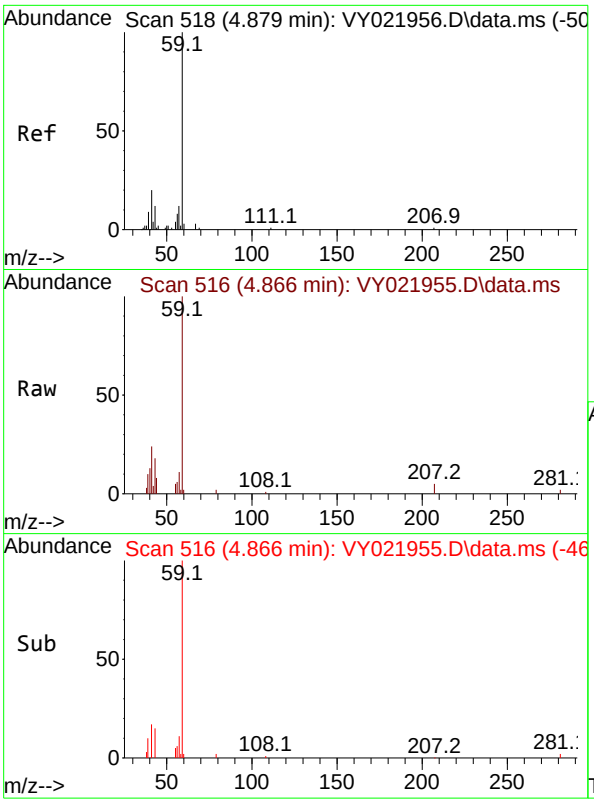


#10
Methyl Iodide
Concen: 19.575 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:142 Resp: 73189

Ion	Ratio	Lower	Upper
142	100		
127	44.9	36.2	54.2
141	14.8	11.7	17.5

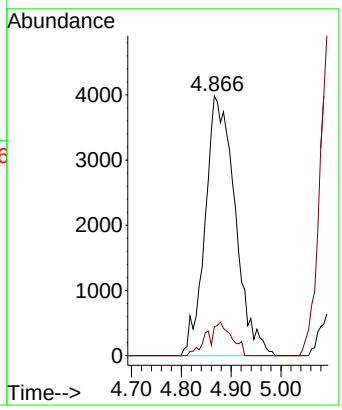




#11
Tert butyl alcohol
Concen: 108.012 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 59 Resp: 1658

Ion	Ratio	Lower	Upper
59	100		
57	7.5	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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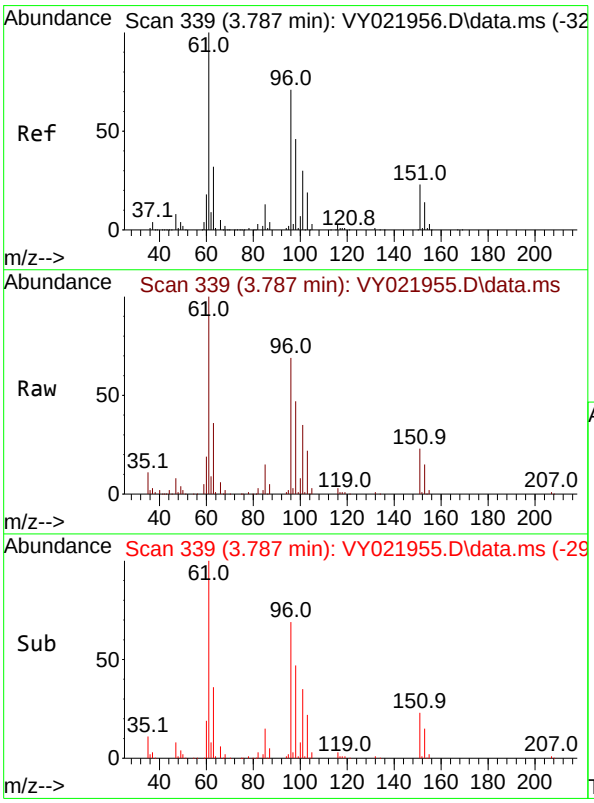
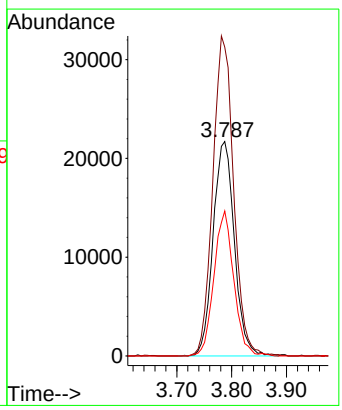
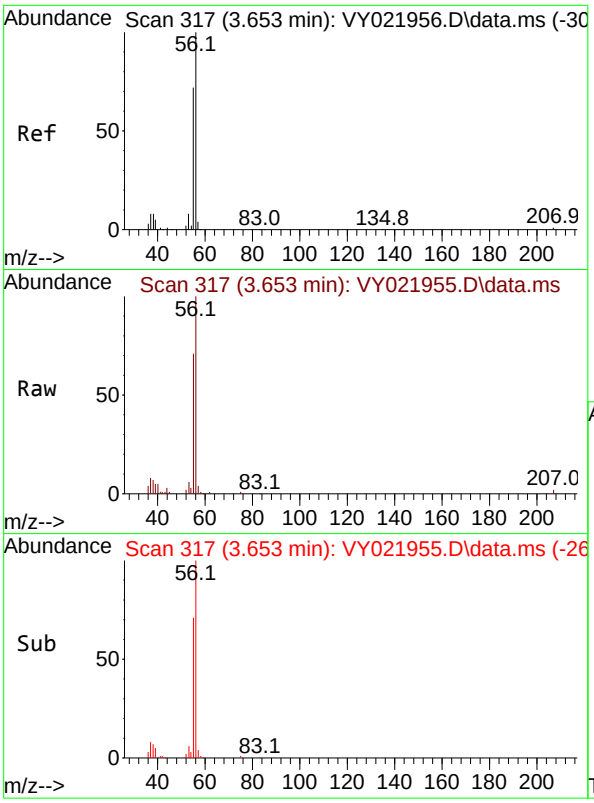


#12
1,1-Dichloroethene
Concen: 19.437 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 96 Resp: 58505

Ion	Ratio	Lower	Upper
96	100		
61	144.0	113.0	169.4
98	67.6	51.4	77.2

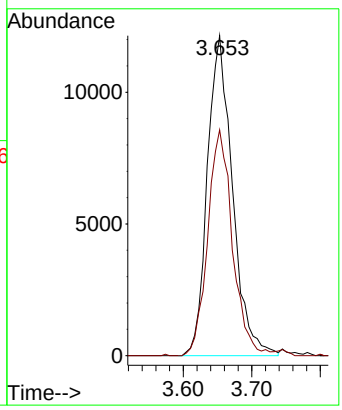




#13
Acrolein
Concen: 112.069 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 56 Resp: 3088

Ion	Ratio	Lower	Upper
56	100		
55	69.8	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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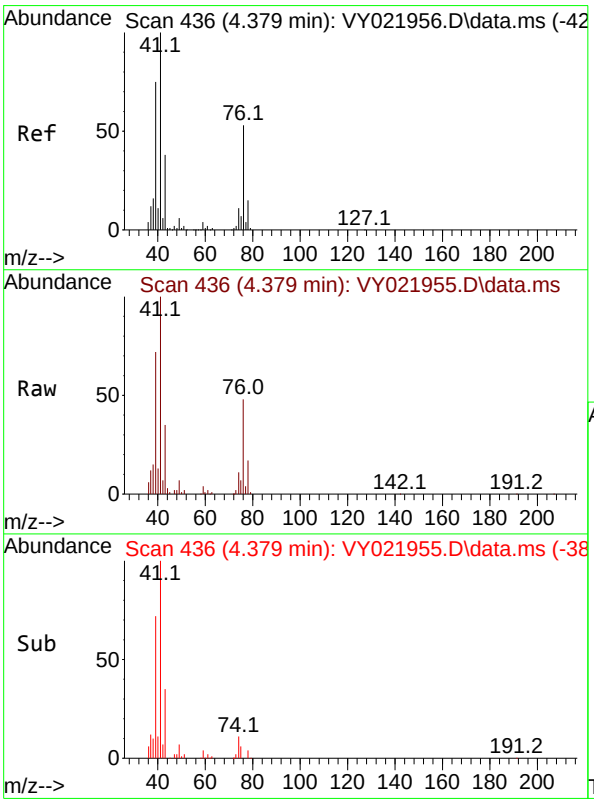
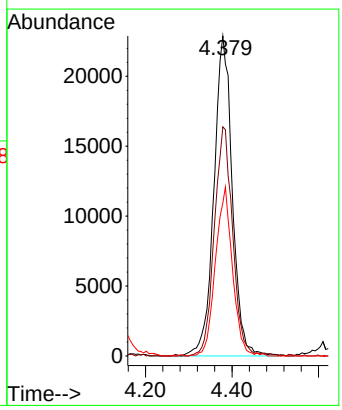
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

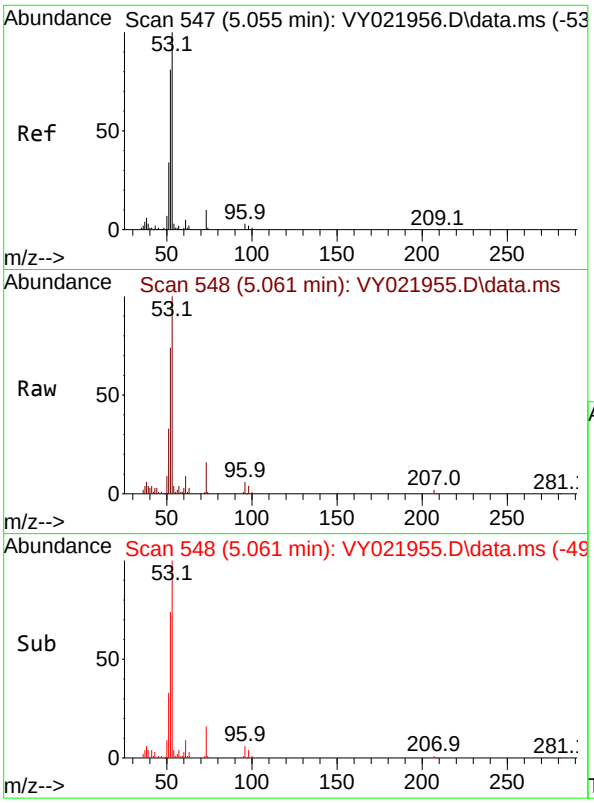


#14
Allyl chloride
Concen: 19.294 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 41 Resp: 67622

Ion	Ratio	Lower	Upper
41	100		
39	71.5	57.2	85.8
76	48.5	39.7	59.5

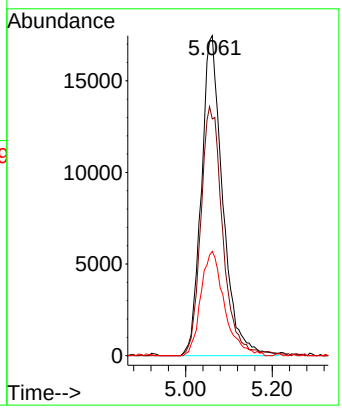




#15
Acrylonitrile
Concen: 105.648 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 53 Resp: 5992

Ion	Ratio	Lower	Upper
53	100		
52	79.4	65.0	97.6
51	36.0	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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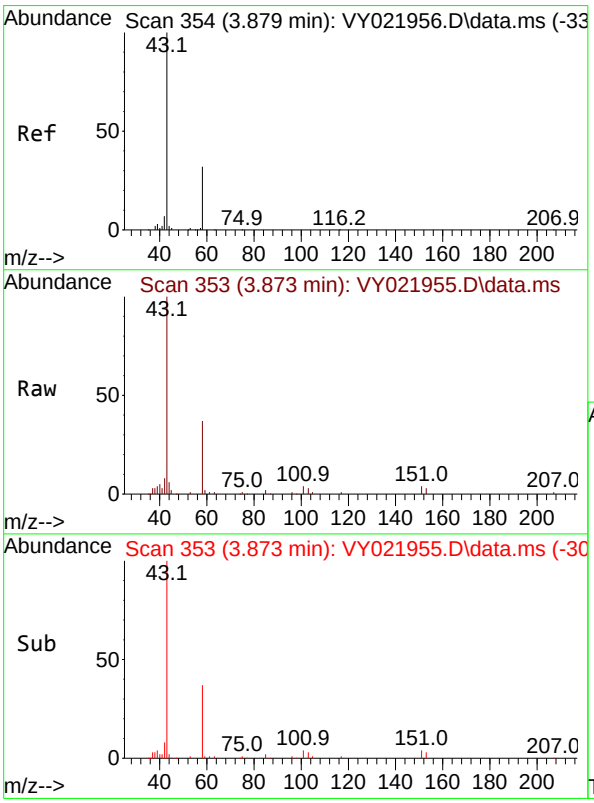
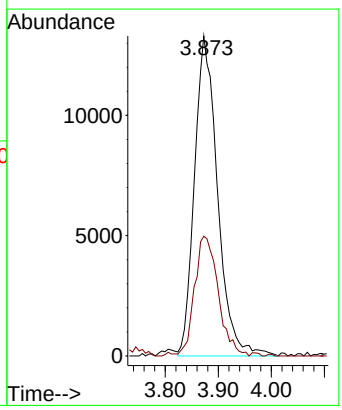
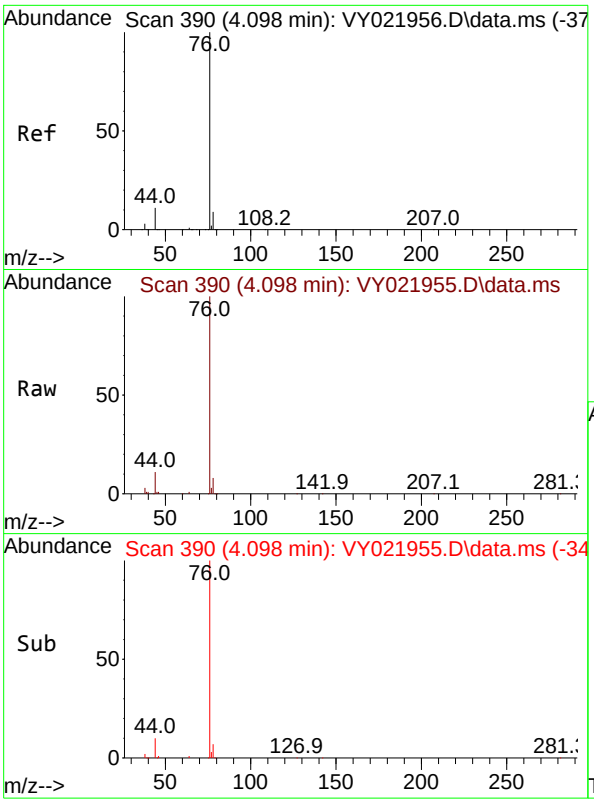


#16
Acetone
Concen: 96.689 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 40190

Ion	Ratio	Lower	Upper
43	100		
58	37.4	27.0	40.4





#17
Carbon Disulfide
Concen: 19.796 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 76 Resp: 18998

Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.6	11.4

Instrument :
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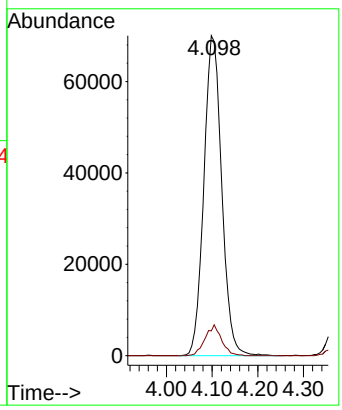
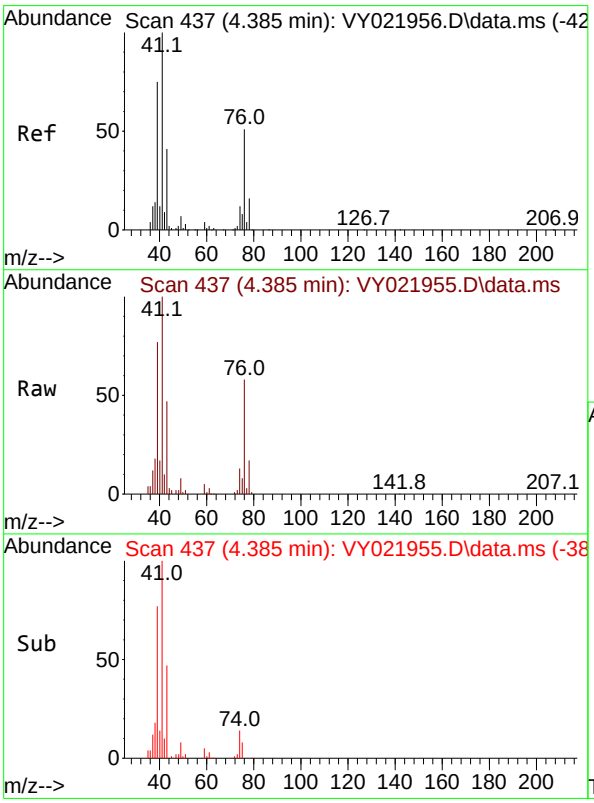
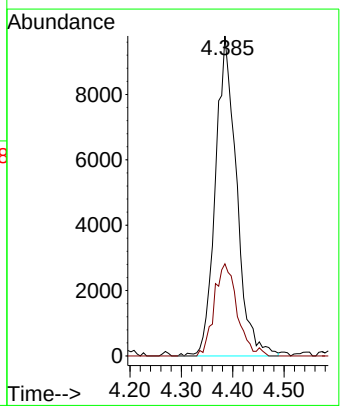


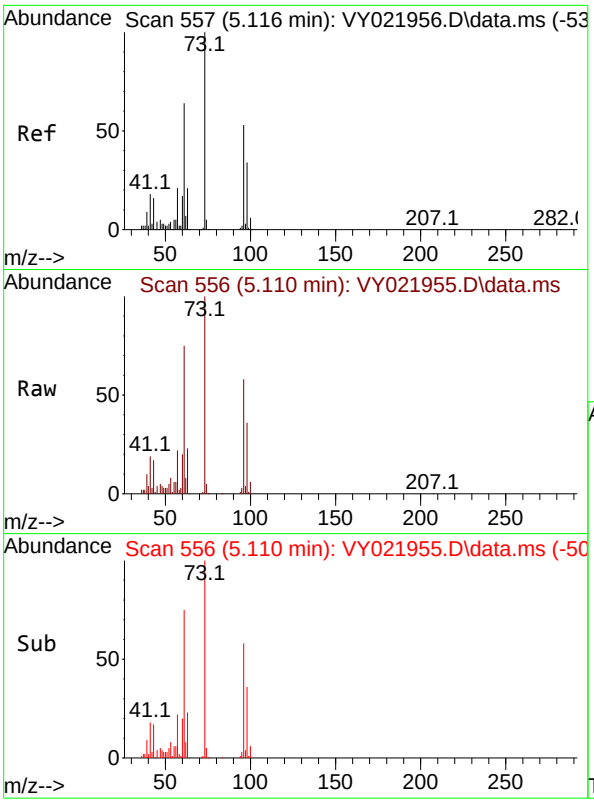


#18
Methyl Acetate
Concen: 21.423 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 27988

Ion	Ratio	Lower	Upper
43	100		
74	30.7	24.2	36.4

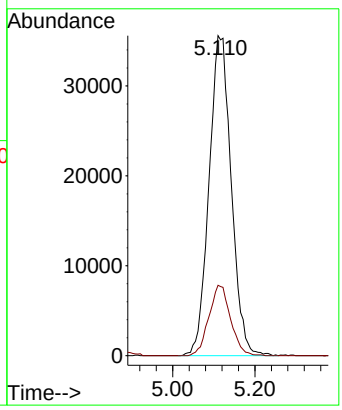




#19
Methyl tert-butyl Ether
Concen: 19.820 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 73 Resp: 13352

Ion	Ratio	Lower	Upper
73	100		
57	22.0	16.9	25.3



Instrument :
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ClientSampleId :
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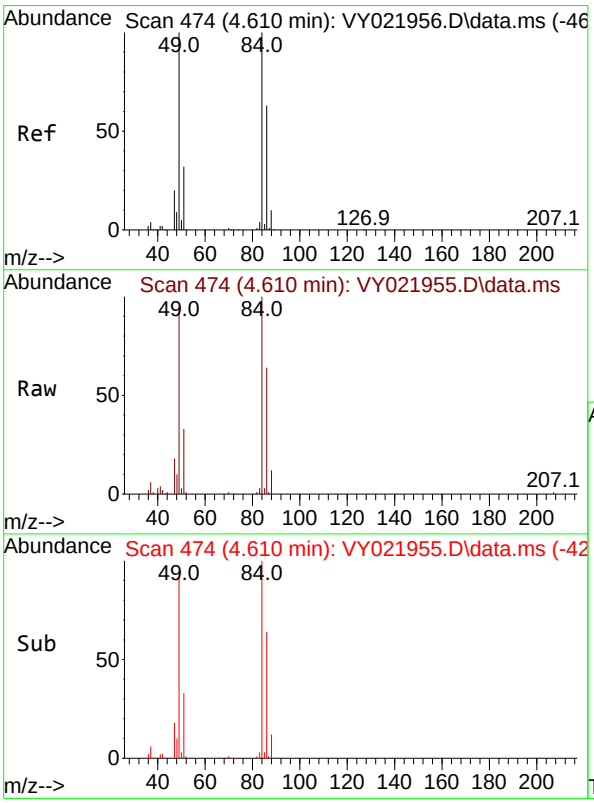
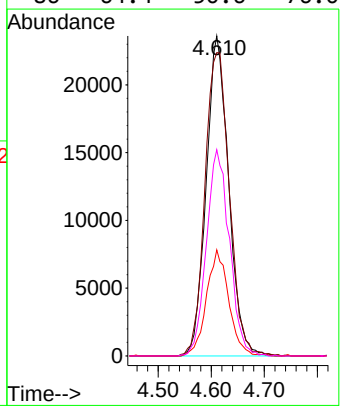
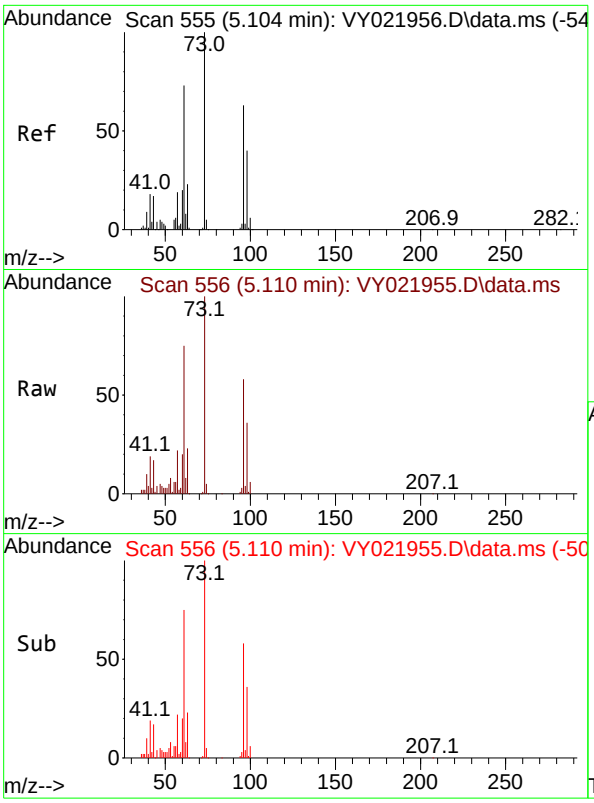


#20
Methylene Chloride
Concen: 19.673 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 84 Resp: 69571

Ion	Ratio	Lower	Upper
84	100		
49	94.8	79.9	119.9
51	33.2	25.4	38.0
86	64.4	50.6	76.0

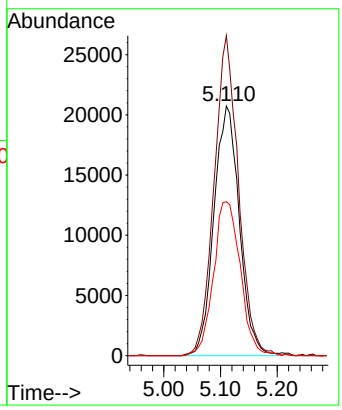




#21
trans-1,2-Dichloroethene
Concen: 19.148 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 96 Resp: 6454

Ion	Ratio	Lower	Upper
96	100		
61	128.2	92.6	138.8
98	61.7	50.2	75.4



Instrument :
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ClientSampleId :
VSTDICC020

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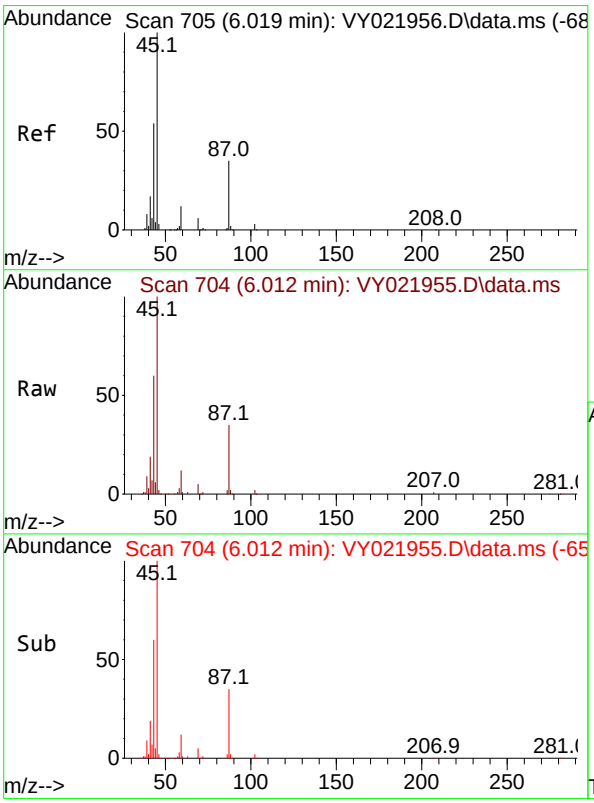
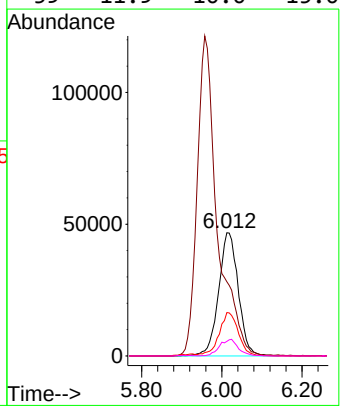
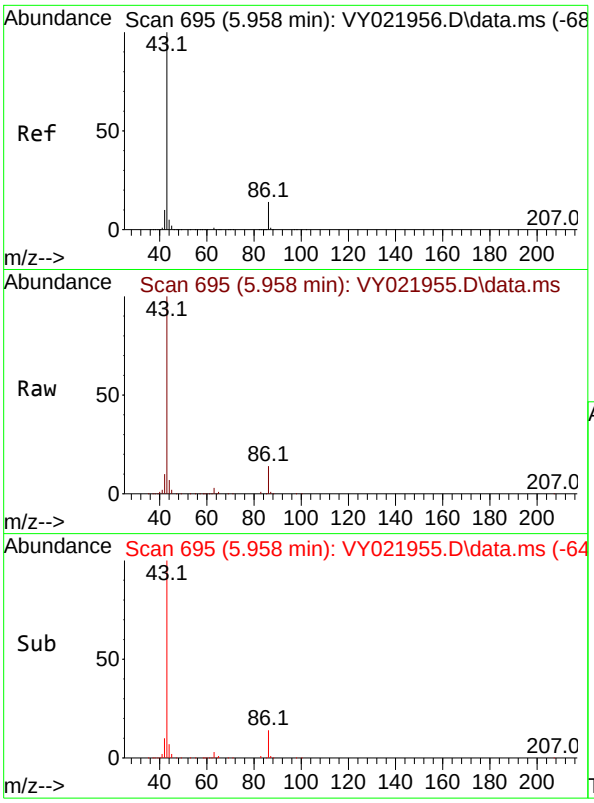


#22
Diisopropyl ether
Concen: 20.439 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 45 Resp: 159414

Ion	Ratio	Lower	Upper
45	100		
43	59.8	43.6	65.4
87	35.2	28.2	42.4
59	11.9	10.0	15.0





#23
Vinyl Acetate
Concen: 100.901 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 42412

Ion	Ratio	Lower	Upper
43	100		
86	13.9	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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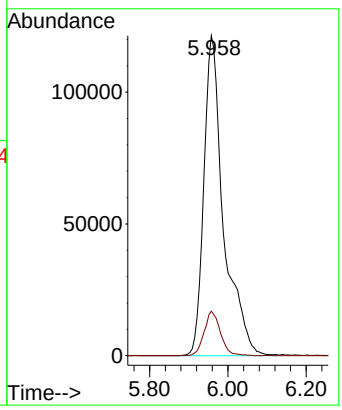
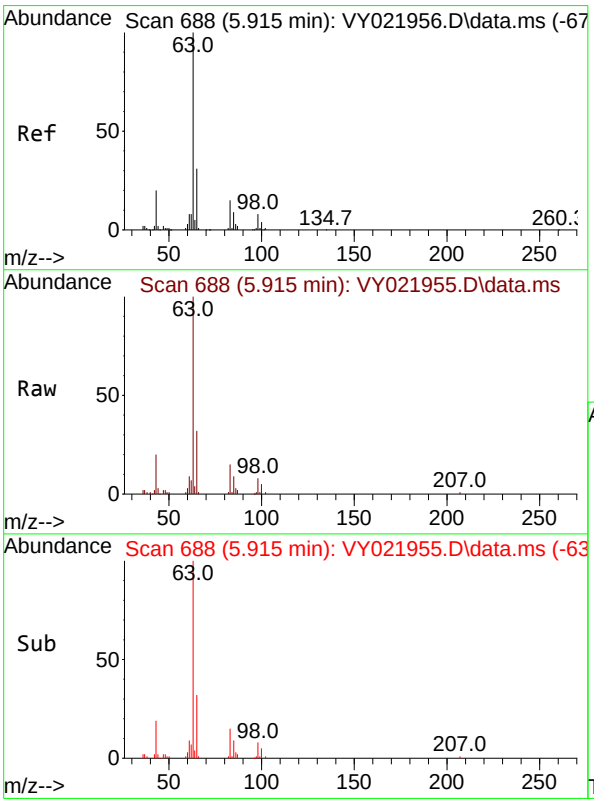
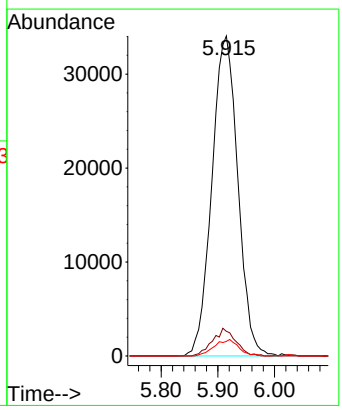


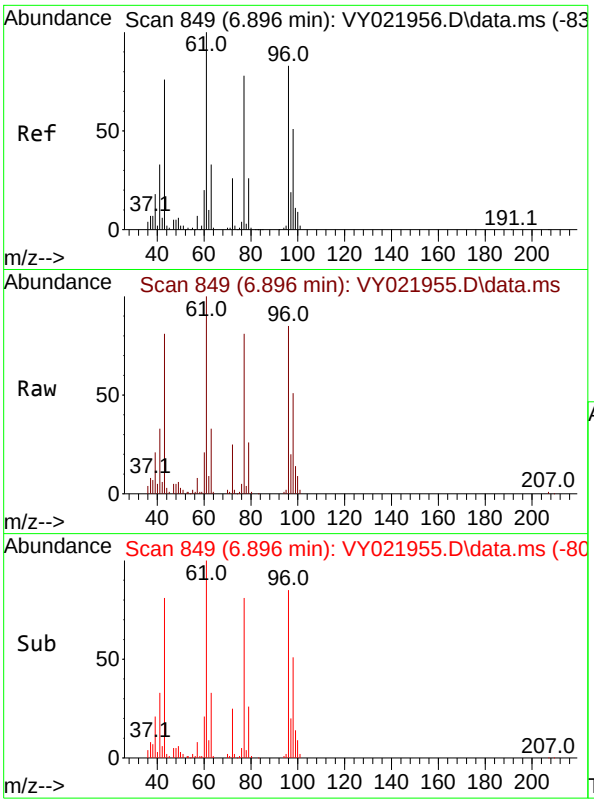


#24
1,1-Dichloroethane
Concen: 20.006 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 63 Resp: 108156

Ion	Ratio	Lower	Upper
63	100		
98	7.7	4.0	11.9
100	4.5	2.0	6.0





#25
2-Butanone
Concen: 102.688 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 6546

Ion	Ratio	Lower	Upper
43	100		
72	31.3	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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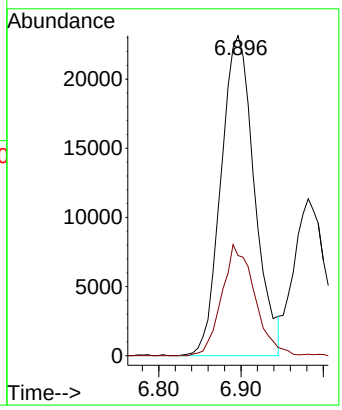
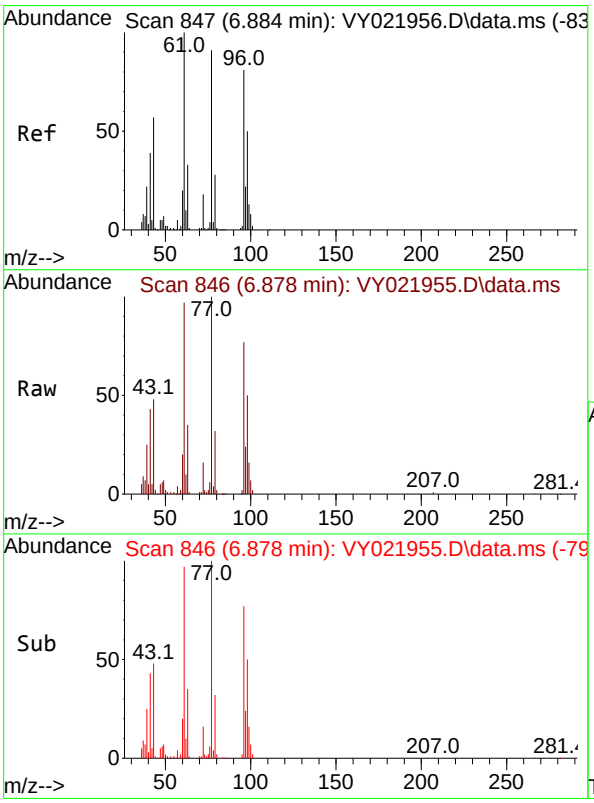
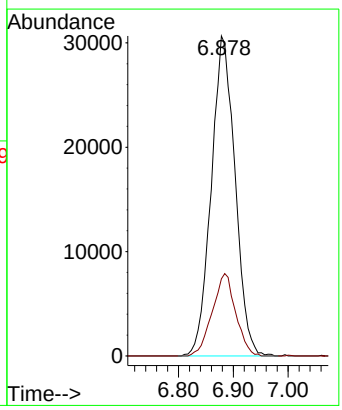


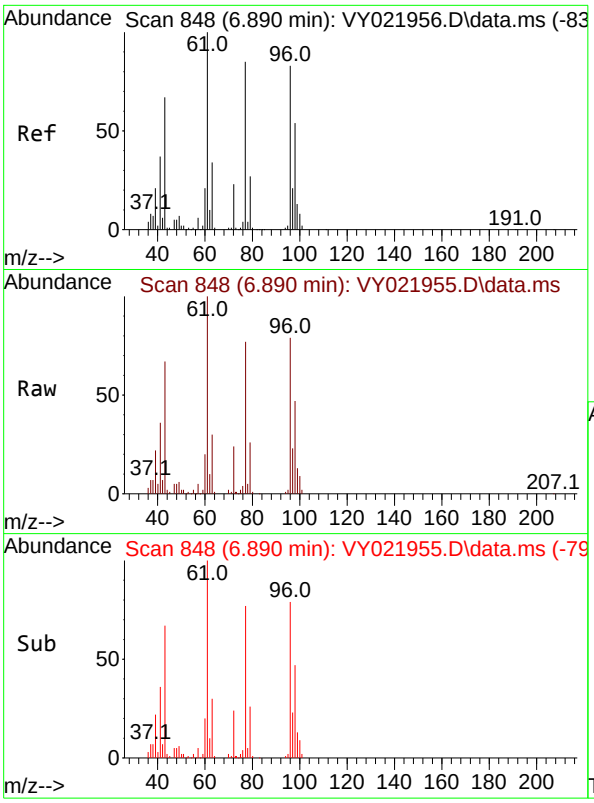


#26
2,2-Dichloropropane
Concen: 19.503 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 77 Resp: 92415

Ion	Ratio	Lower	Upper
77	100		
97	25.3	12.4	37.4

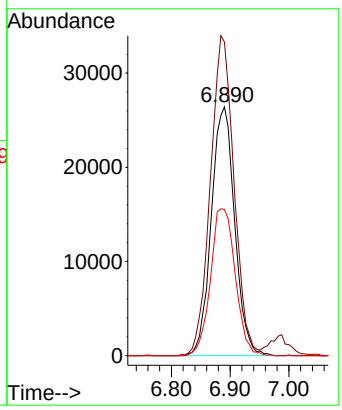




#27
cis-1,2-Dichloroethene
Concen: 19.398 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 96 Resp: 7311

Ion	Ratio	Lower	Upper
96	100		
61	129.9	0.0	251.4
98	62.5	0.0	128.4



Instrument :
MSVOA_Y
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Manual Integrations
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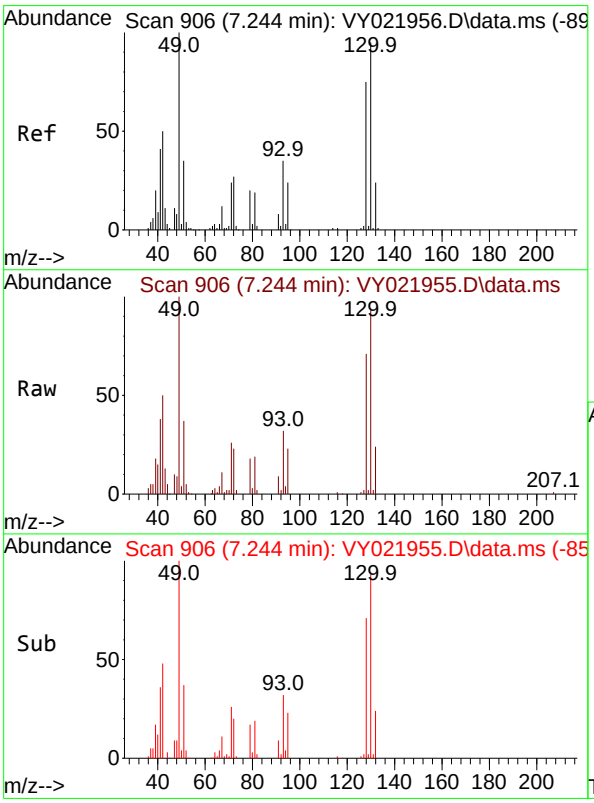
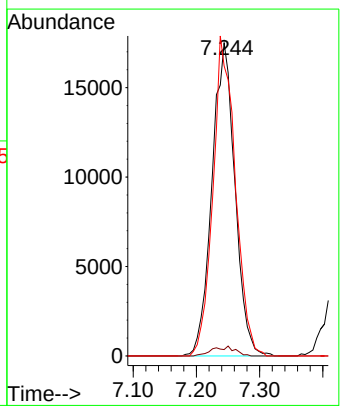
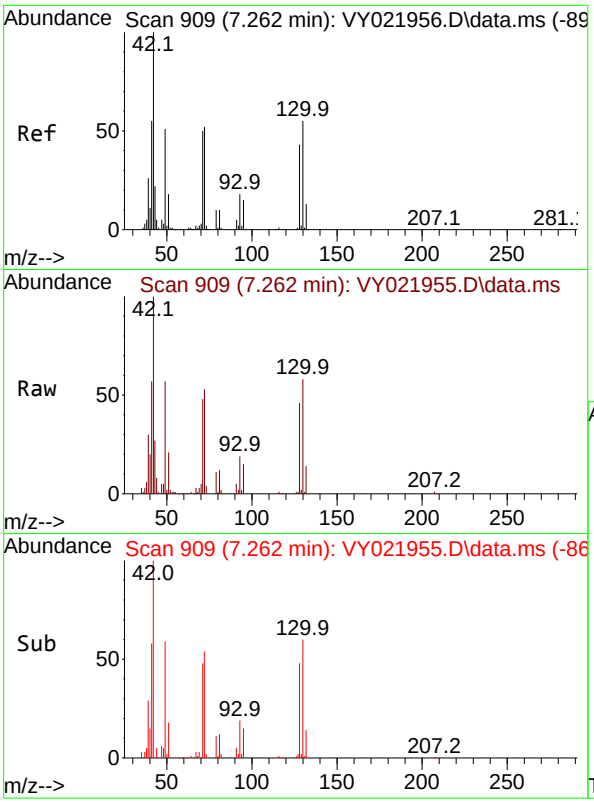


#28
Bromochloromethane
Concen: 21.027 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 49 Resp: 44154

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	5.0
130	99.1	78.2	117.4

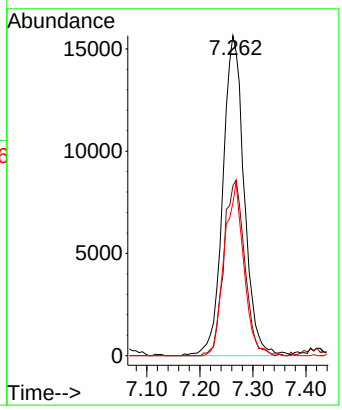




#29
Tetrahydrofuran
Concen: 105.459 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 42 Resp: 4366

Ion	Ratio	Lower	Upper
42	100		
72	53.6	42.6	63.8
71	50.0	40.6	61.0



Instrument :
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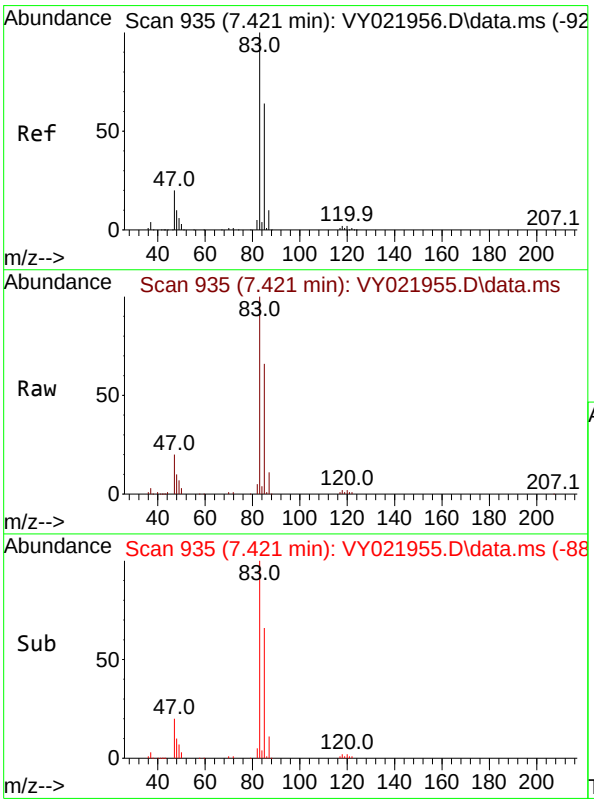
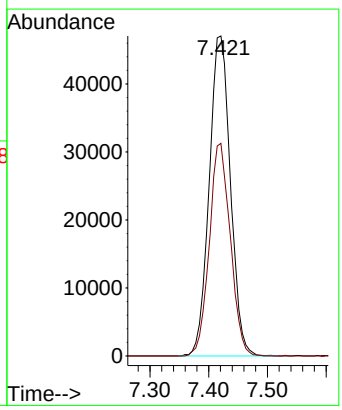
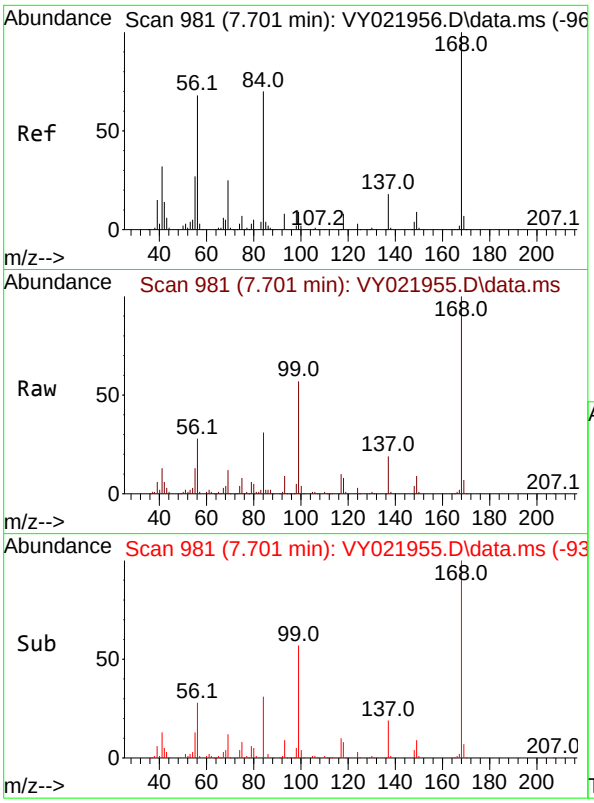


#30
Chloroform
Concen: 19.666 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 83 Resp: 117934

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.3	76.9

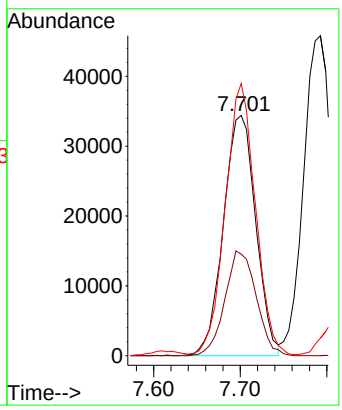




#31
Cyclohexane
Concen: 19.333 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 56 Resp: 8938

Ion	Ratio	Lower	Upper
56	100		
69	42.3	29.4	44.2
84	112.0	82.2	123.4



Instrument :
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ClientSampleId :
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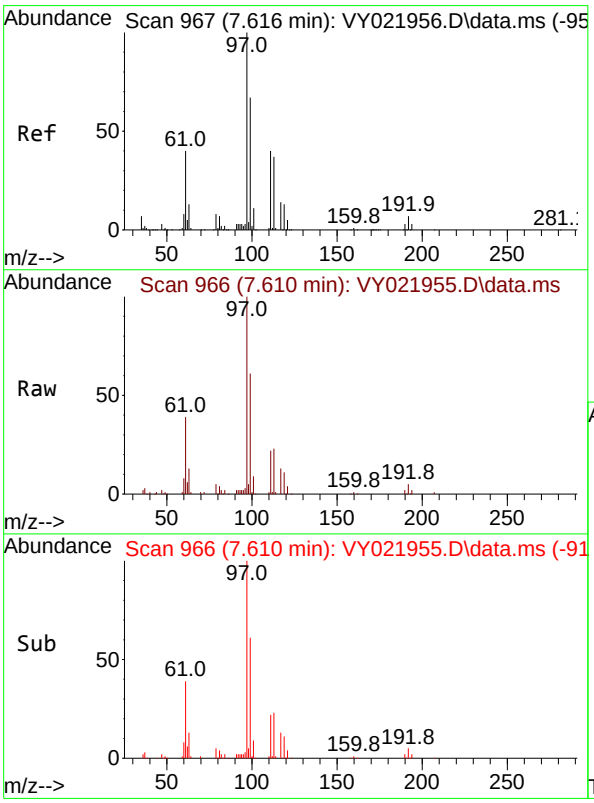
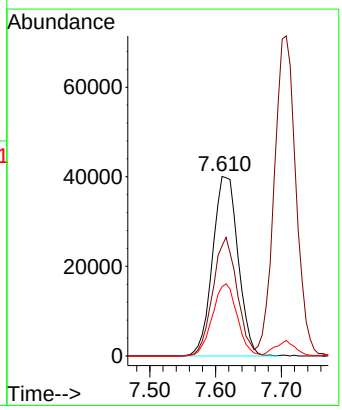
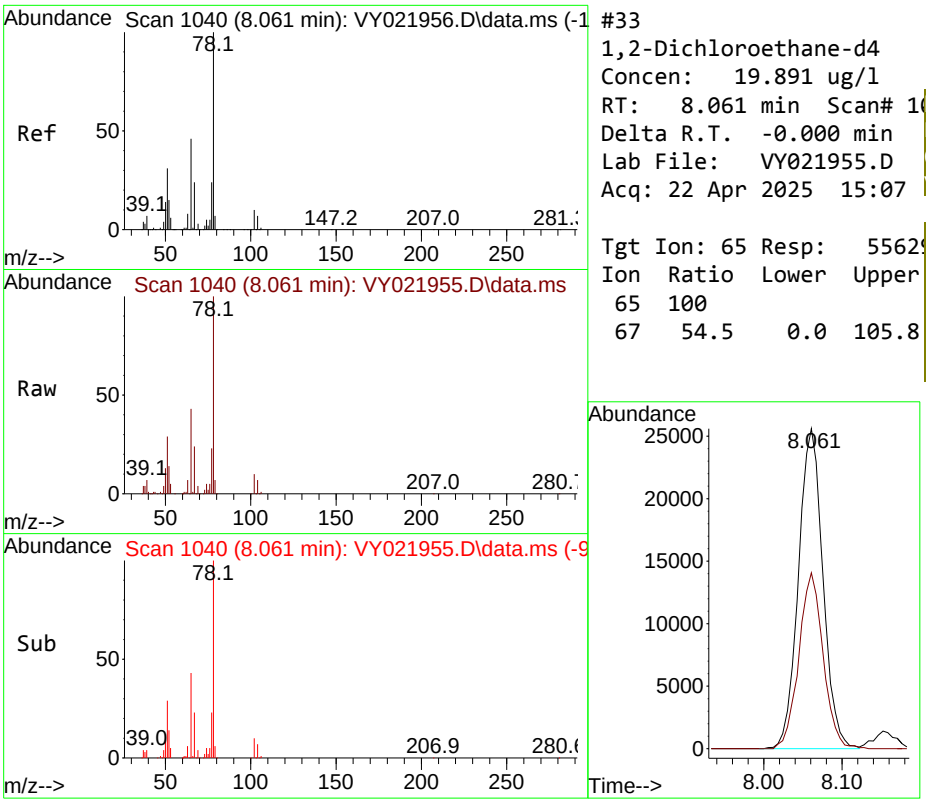


#32
1,1,1-Trichloroethane
Concen: 19.993 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 97 Resp: 108468

Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.4	77.2
61	39.0	31.4	47.2





#33
1,2-Dichloroethane-d4
Concen: 19.891 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 65 Resp: 5562

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	105.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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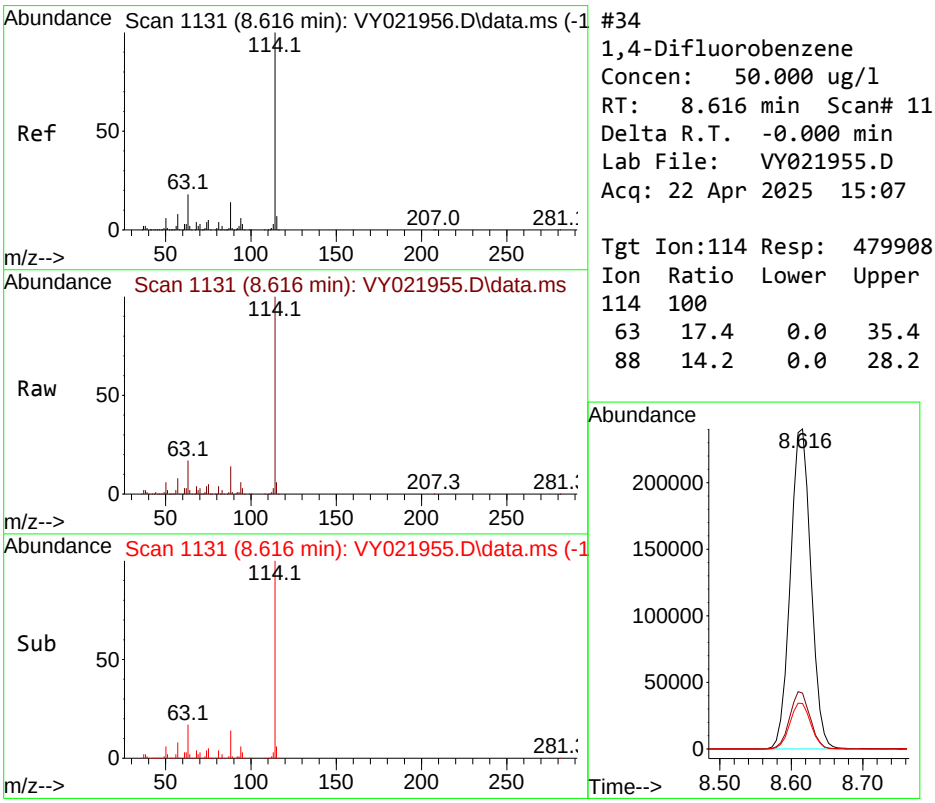
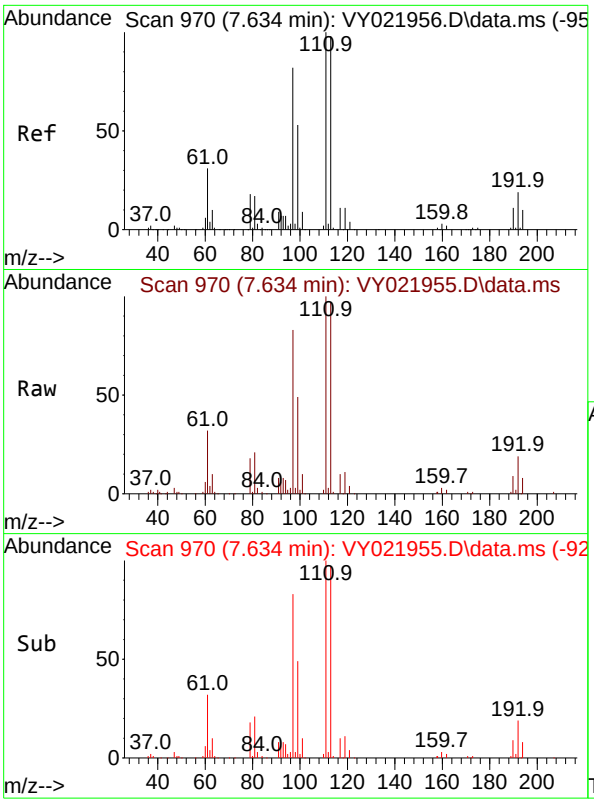
Supervised By :Mahesh Dadoda 04/23/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:114 Resp: 479908

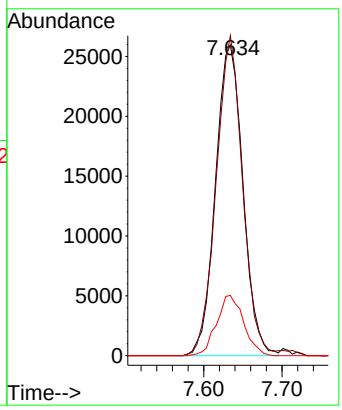
Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	35.4
88	14.2	0.0	28.2



#35
Dibromofluoromethane
Concen: 20.003 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:113 Resp: 6341

Ion	Ratio	Lower	Upper
113	100		
111	98.7	81.8	122.8
192	19.1	15.6	23.4



Instrument :
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ClientSampleId :
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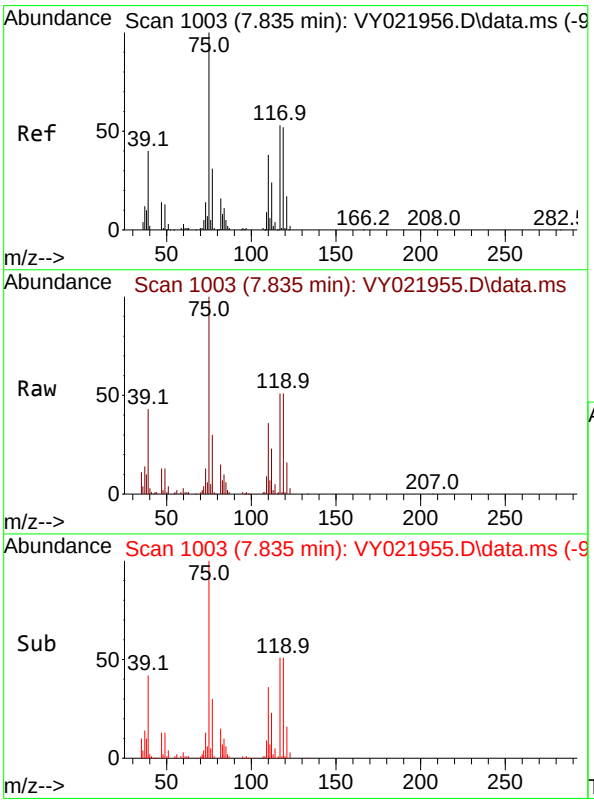
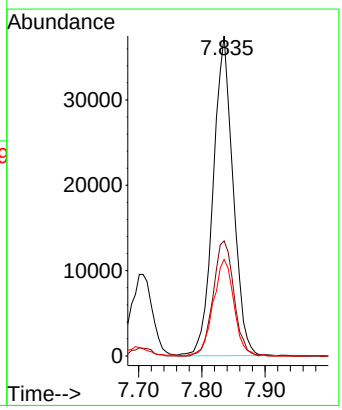
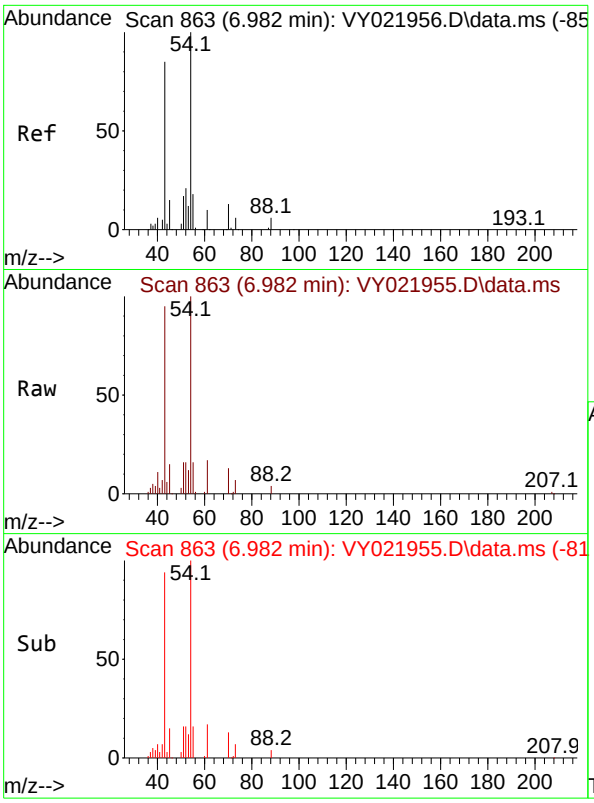


#36
1,1-Dichloropropene
Concen: 19.127 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 75 Resp: 81459

Ion	Ratio	Lower	Upper
75	100		
110	37.7	19.1	57.3
77	31.6	25.5	38.3

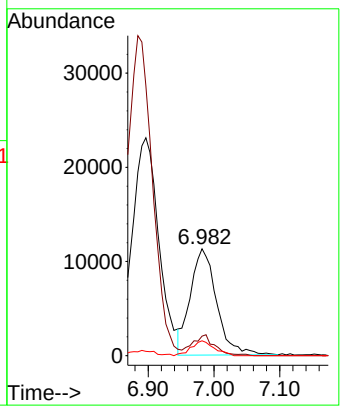




#37
Ethyl Acetate
Concen: 20.755 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 3131

Ion	Ratio	Lower	Upper
43	100		
61	16.7	13.8	20.6
70	12.2	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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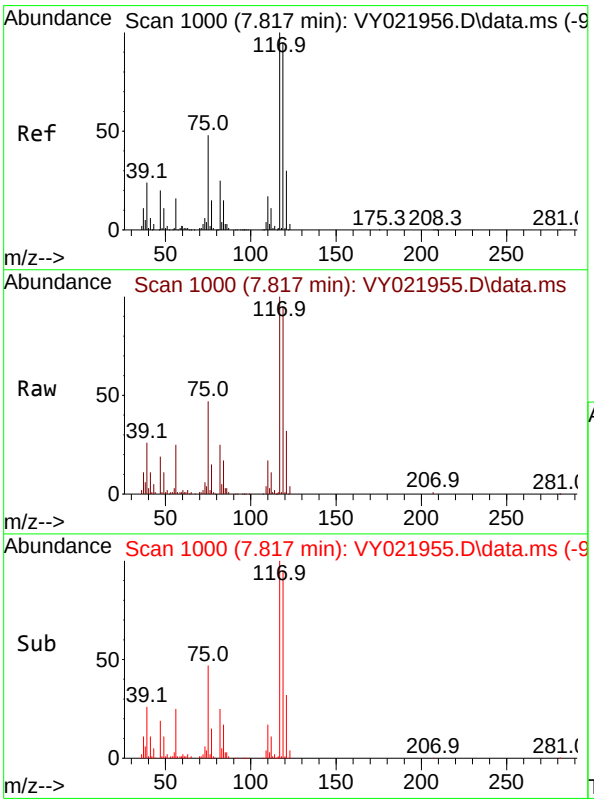
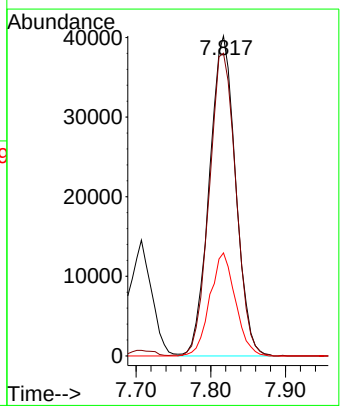
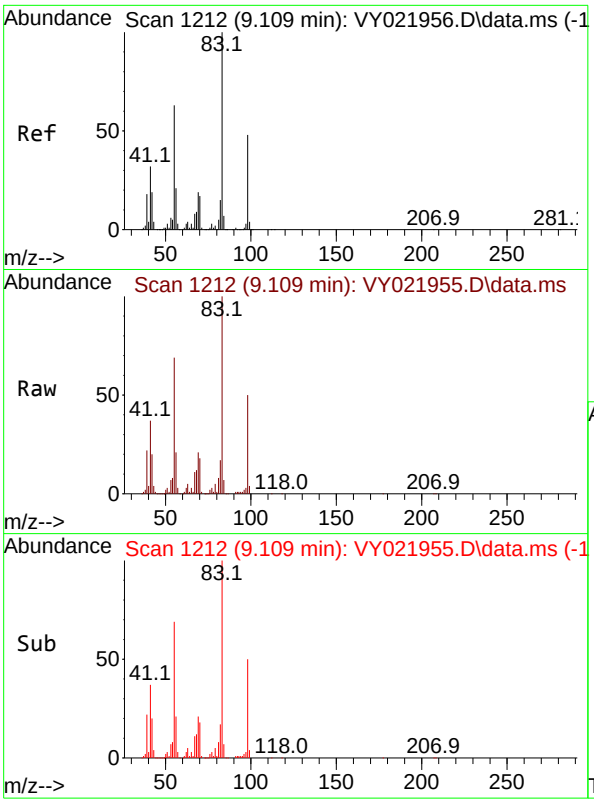


#38
Carbon Tetrachloride
Concen: 19.318 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:117 Resp: 98308

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.2	114.4
121	32.2	24.0	36.0

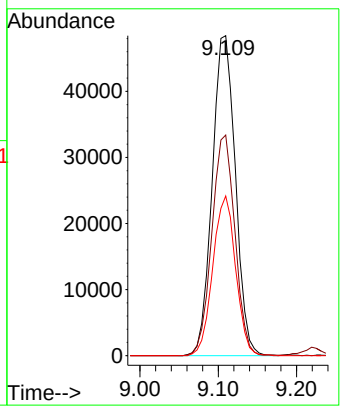




#39
Methylcyclohexane
Concen: 18.578 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 83 Resp: 9957

Ion	Ratio	Lower	Upper
83	100		
55	69.0	50.6	75.8
98	49.9	38.6	58.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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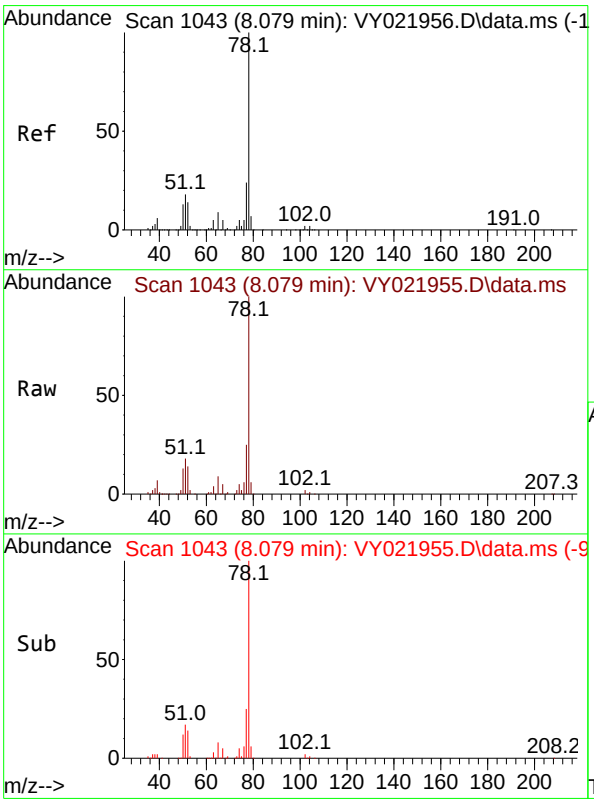
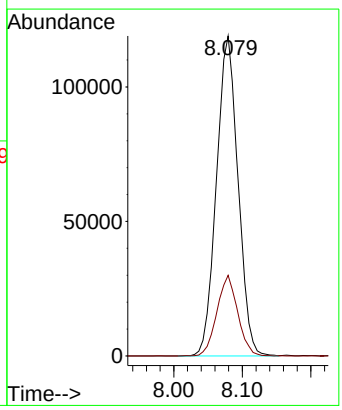
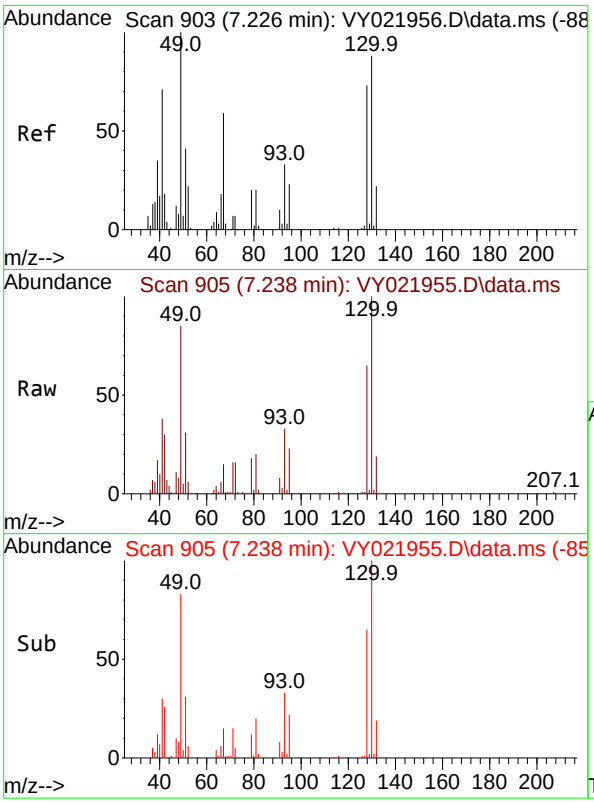


#40
Benzene
Concen: 19.482 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 78 Resp: 259371

Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.3	28.9

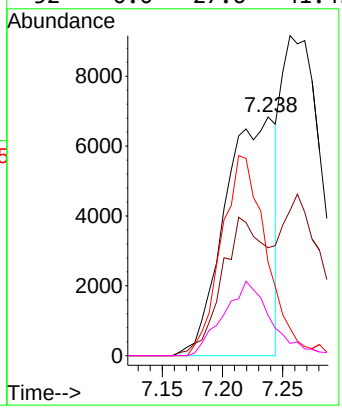




#41
Methacrylonitrile
Concen: 23.846 ug/l m
RT: 7.238 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 41 Resp: 1994

Ion	Ratio	Lower	Upper
41	100		
39	53.3	36.6	55.0
67	0.0	72.2	108.4#
52	0.0	27.6	41.4#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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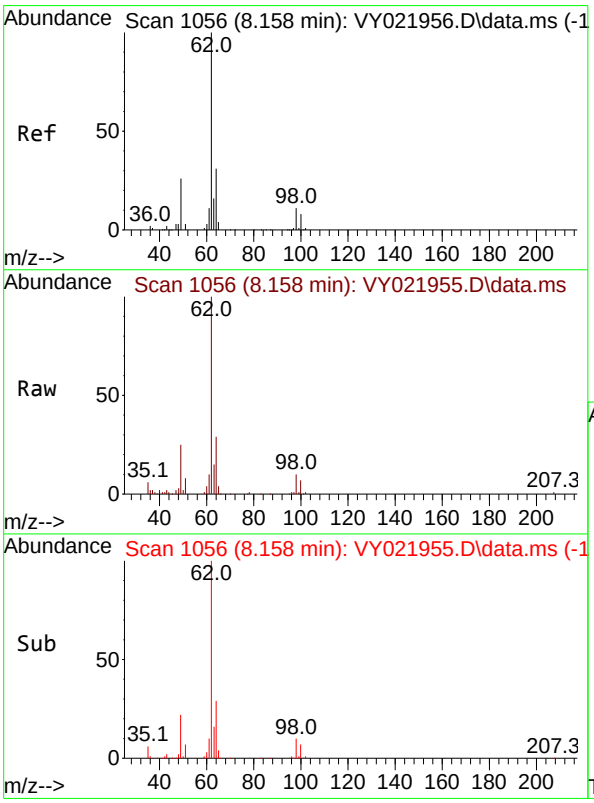
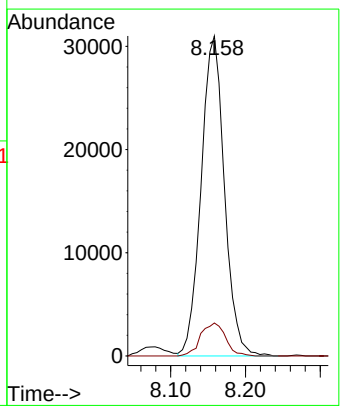
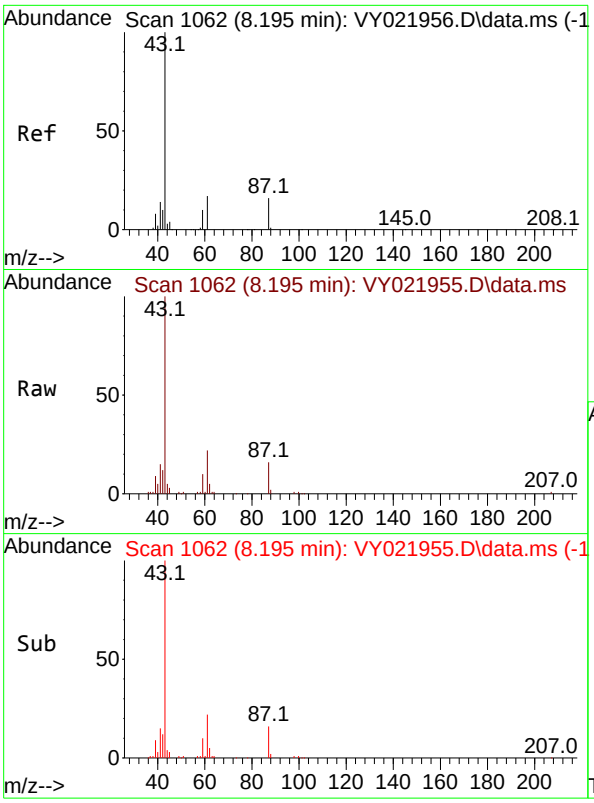


#42
1,2-Dichloroethane
Concen: 20.398 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 62 Resp: 67235

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	22.0





#43
Isopropyl Acetate
Concen: 20.495 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 6020

Ion	Ratio	Lower	Upper
43	100		
61	34.7	18.9	28.3#
87	16.8	13.7	20.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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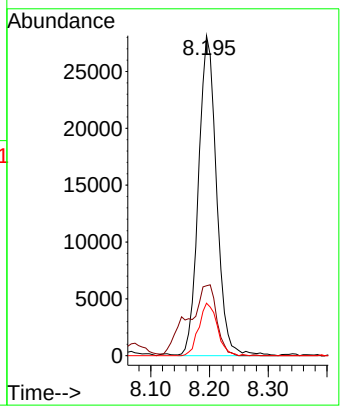
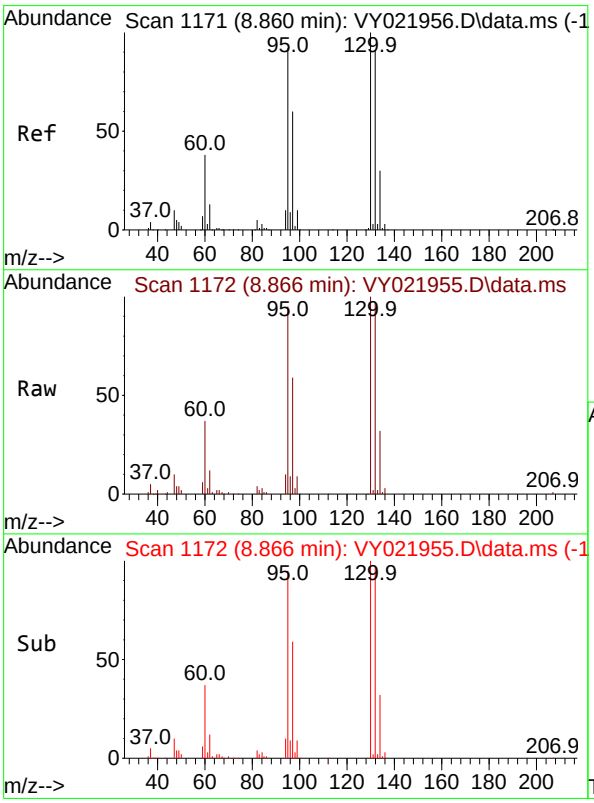
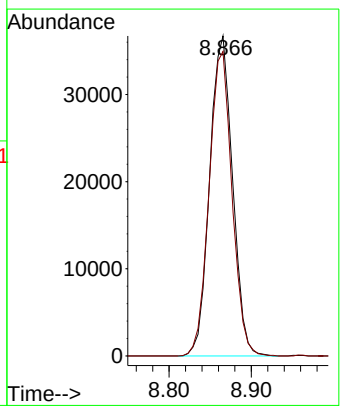


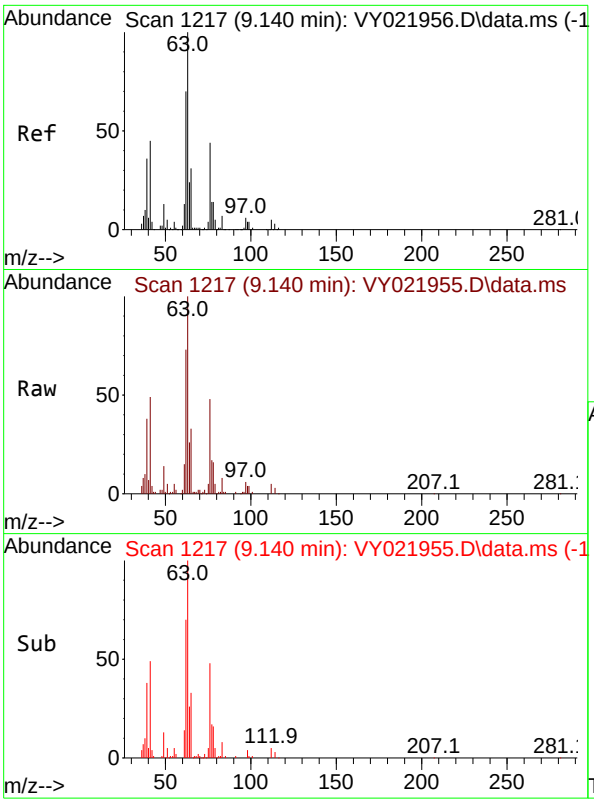


#44
Trichloroethene
Concen: 19.226 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:130 Resp: 70896

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	183.2

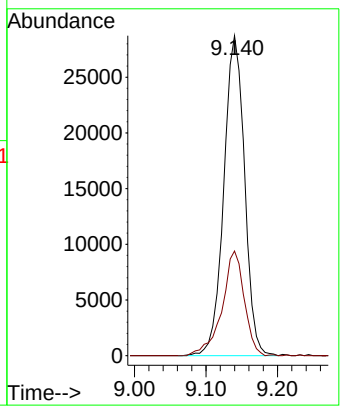




#45
1,2-Dichloropropane
Concen: 19.678 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 63 Resp: 5793

Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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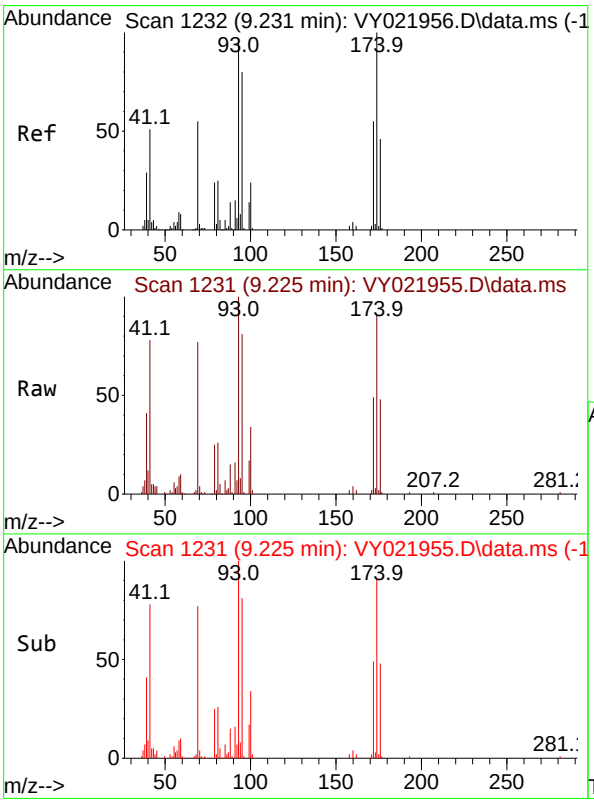
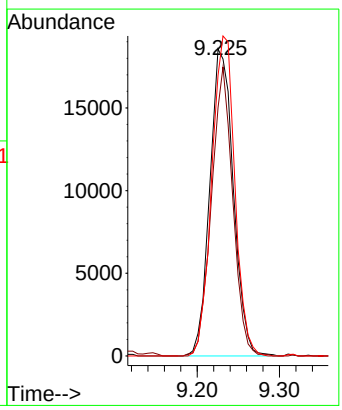
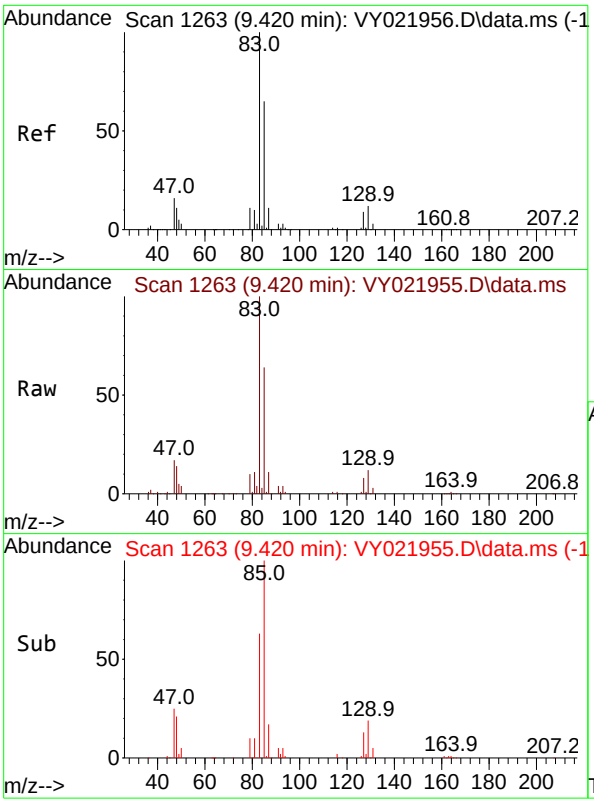


#46
Dibromomethane
Concen: 20.018 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 93 Resp: 36893

Ion	Ratio	Lower	Upper
93	100		
95	85.2	66.7	100.1
174	102.1	84.6	127.0

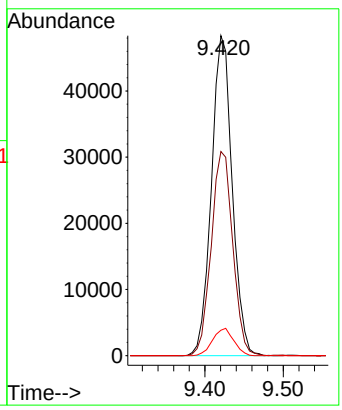




#47
Bromodichloromethane
Concen: 19.341 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 83 Resp: 8904

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.8	77.8
127	8.0	7.0	10.6



Instrument :
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ClientSampleId :
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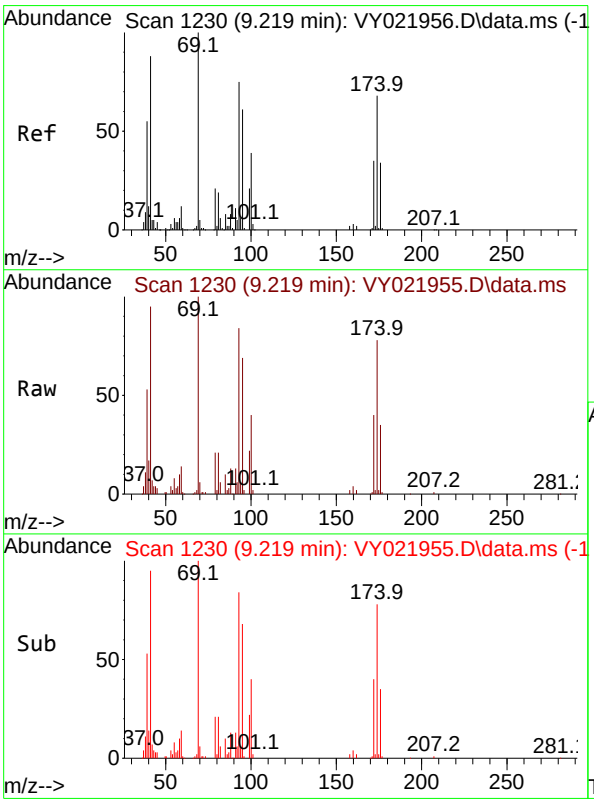
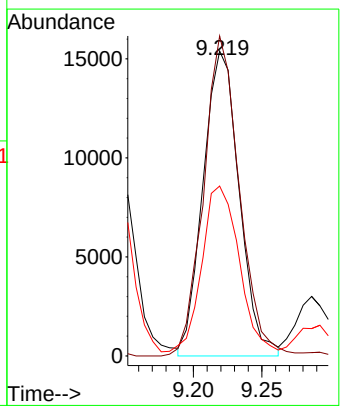
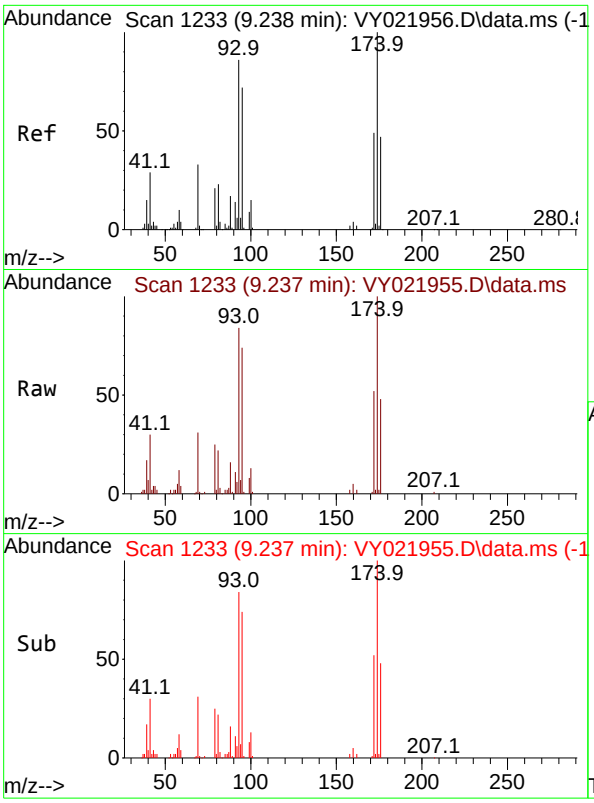


#48
Methyl methacrylate
Concen: 20.775 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 41 Resp: 28211

Ion	Ratio	Lower	Upper
41	100		
69	104.1	85.5	128.3
39	55.5	46.2	69.4

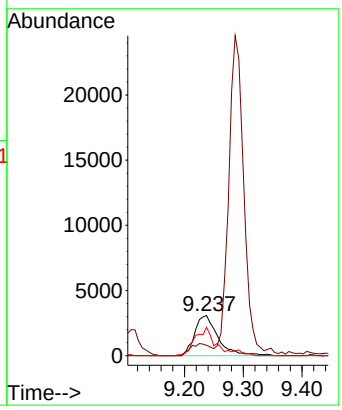




#49
1,4-Dioxane
Concen: 432.566 ug/l
RT: 9.237 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 88 Resp: 849

Ion	Ratio	Lower	Upper
88	100		
43	25.9	21.3	31.9
58	59.2	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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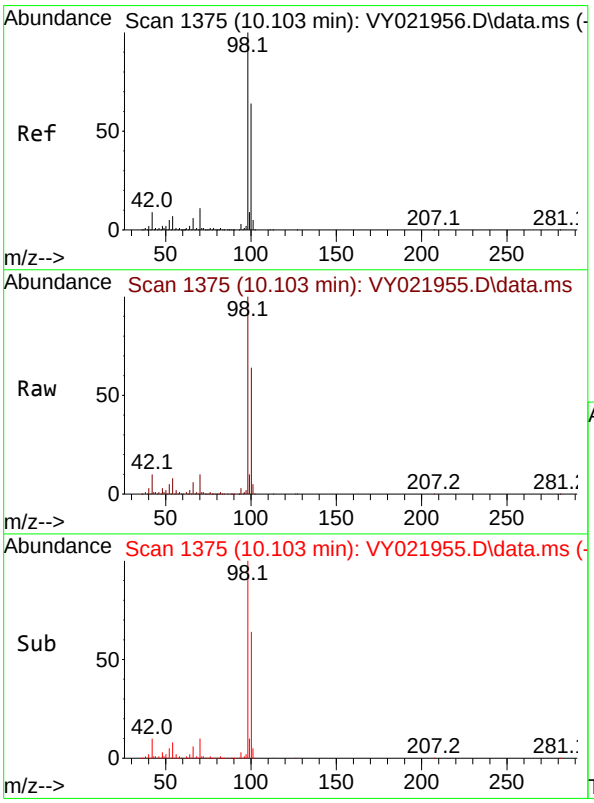
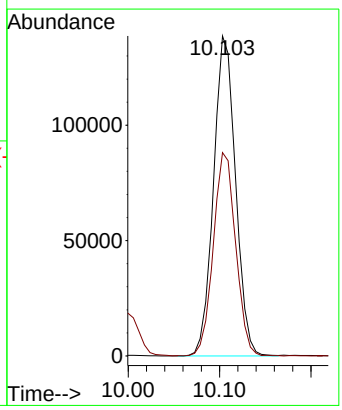
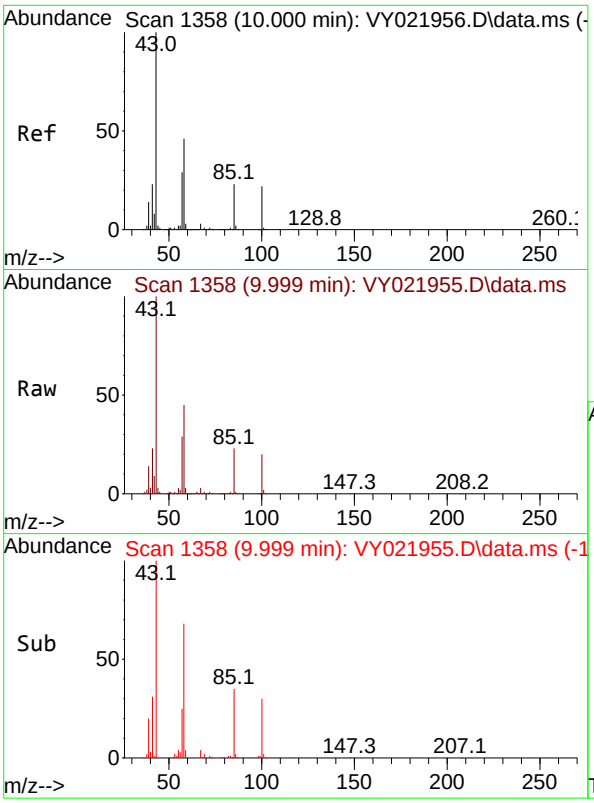


#50
Toluene-d8
Concen: 19.446 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 98 Resp: 232431

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.6	77.4





#51
4-Methyl-2-Pentanone
Concen: 103.844 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 15990

Ion	Ratio	Lower	Upper
43	100		
58	44.9	36.6	55.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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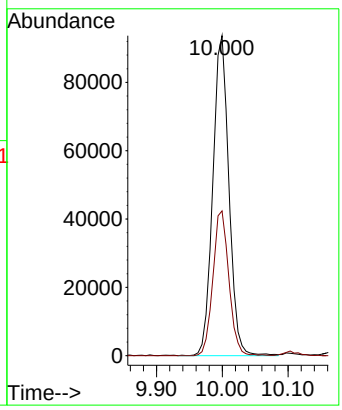
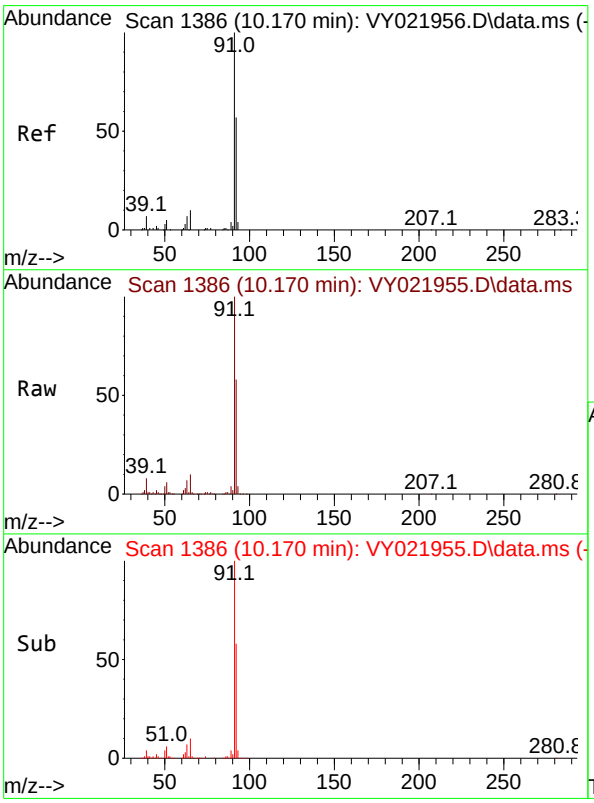
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

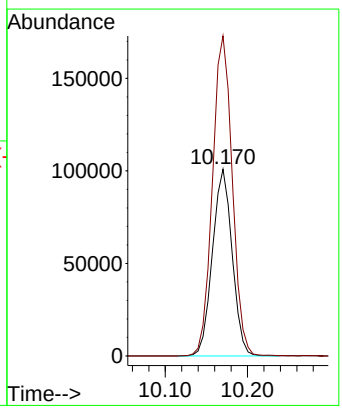


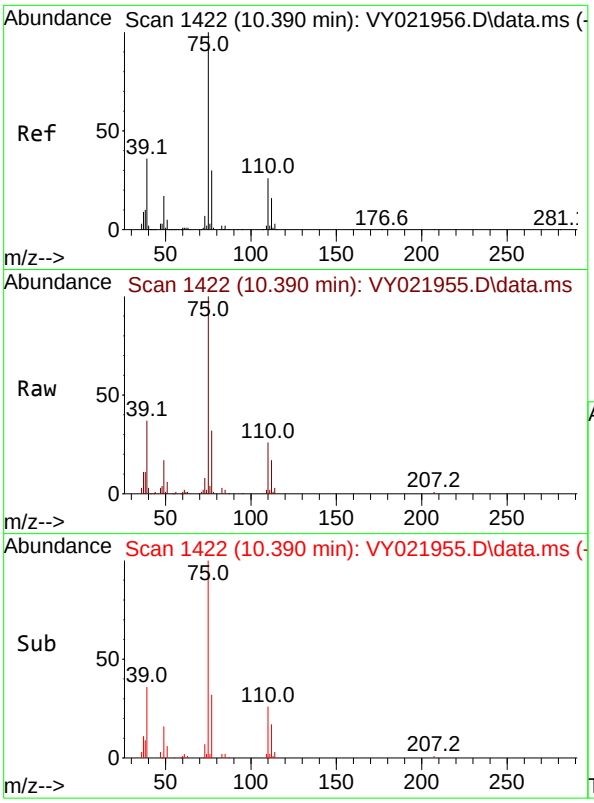


#52
Toluene
Concen: 19.499 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 92 Resp: 168035

Ion	Ratio	Lower	Upper
92	100		
91	172.7	138.6	207.8

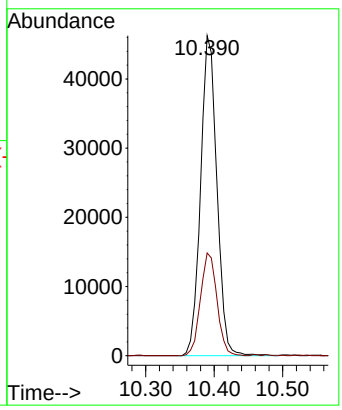




#53
t-1,3-Dichloropropene
Concen: 19.404 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 75 Resp: 7662

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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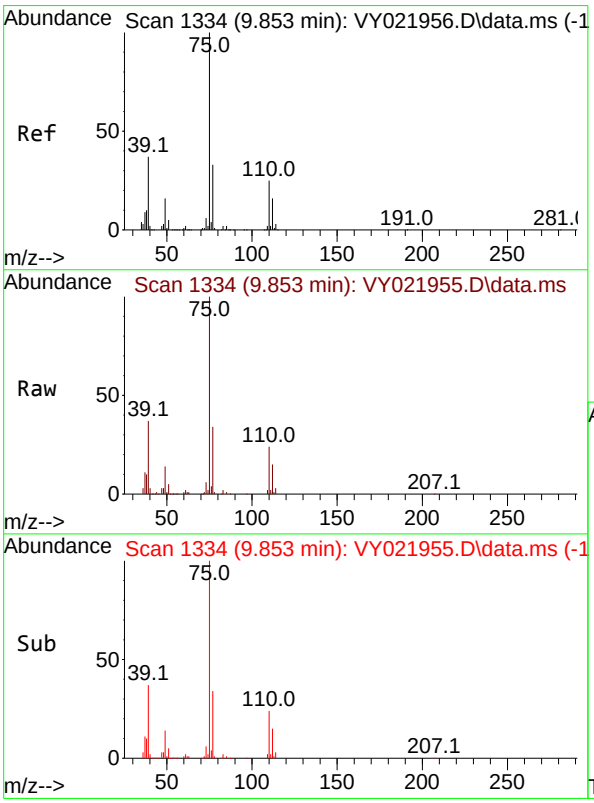
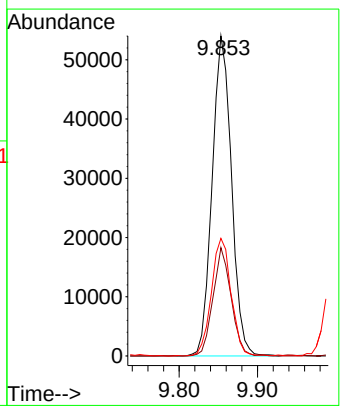
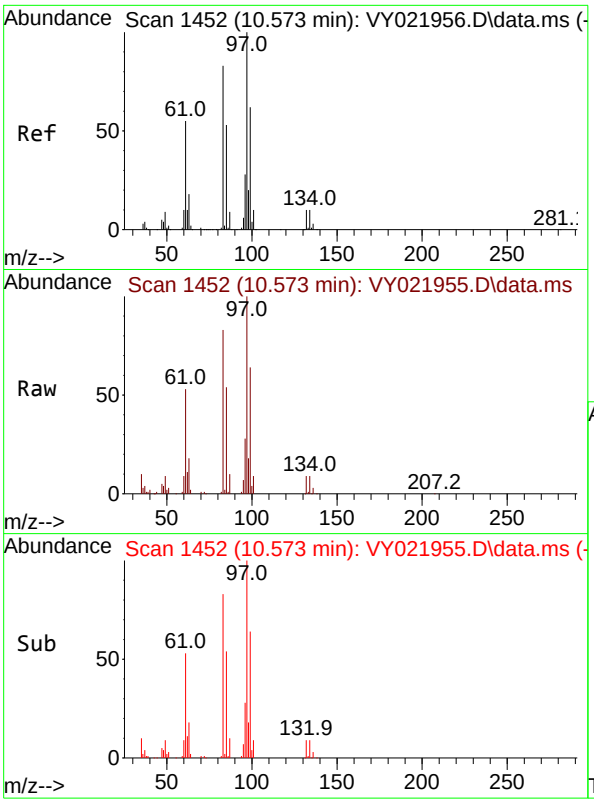


#54
cis-1,3-Dichloropropene
Concen: 19.753 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 75 Resp: 92726

Ion	Ratio	Lower	Upper
75	100		
77	33.8	26.6	40.0
39	36.6	29.6	44.4

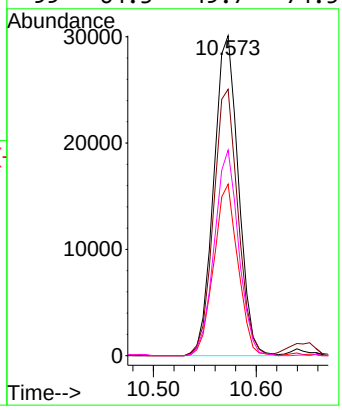




#55
1,1,2-Trichloroethane
Concen: 20.353 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 97 Resp: 5010

Ion	Ratio	Lower	Upper
97	100		
83	83.3	66.7	100.1
85	53.6	42.6	64.0
99	64.3	49.7	74.5



Instrument :
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ClientSampleId :
VSTDICC020

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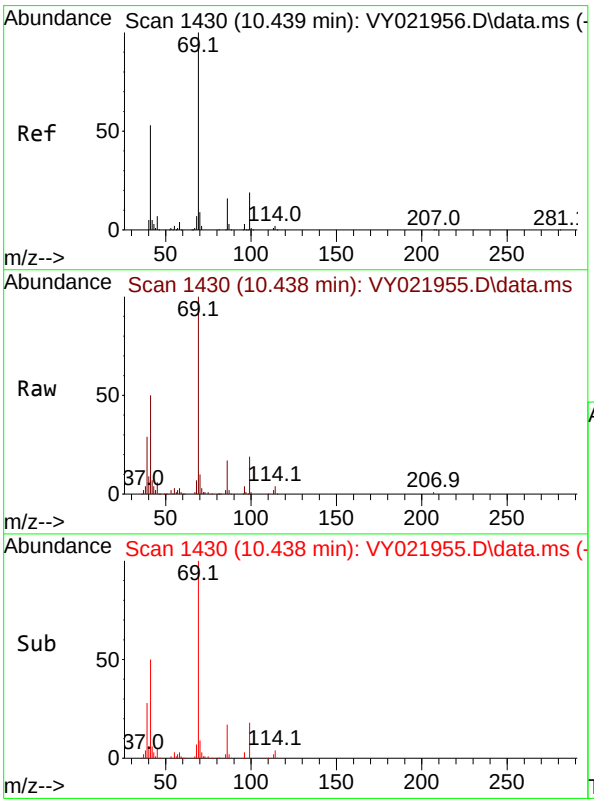
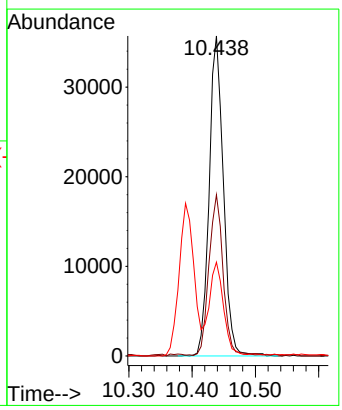
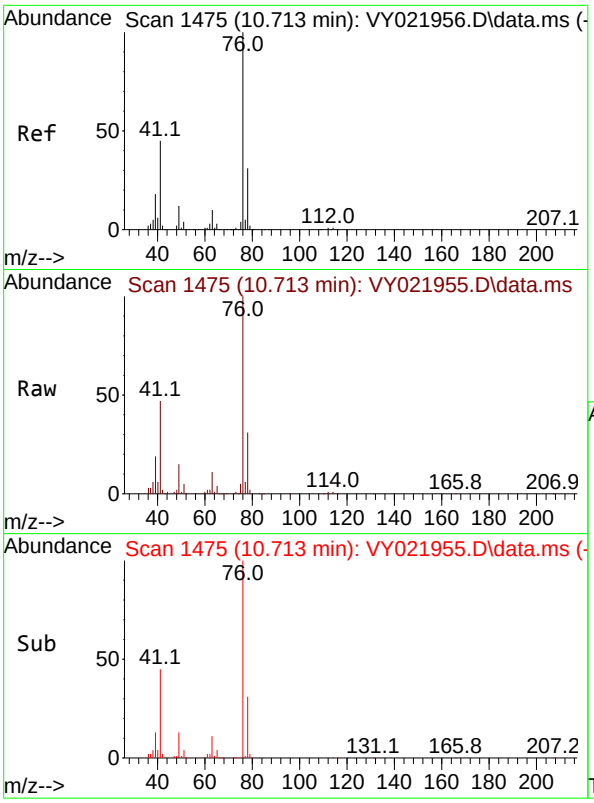


#56
Ethyl methacrylate
Concen: 19.786 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 69 Resp: 55703

Ion	Ratio	Lower	Upper
69	100		
41	49.8	40.7	61.1
39	29.3	23.3	34.9





#57
1,3-Dichloropropane
Concen: 19.676 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 76 Resp: 7765

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
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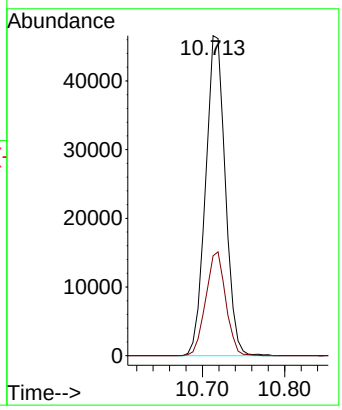
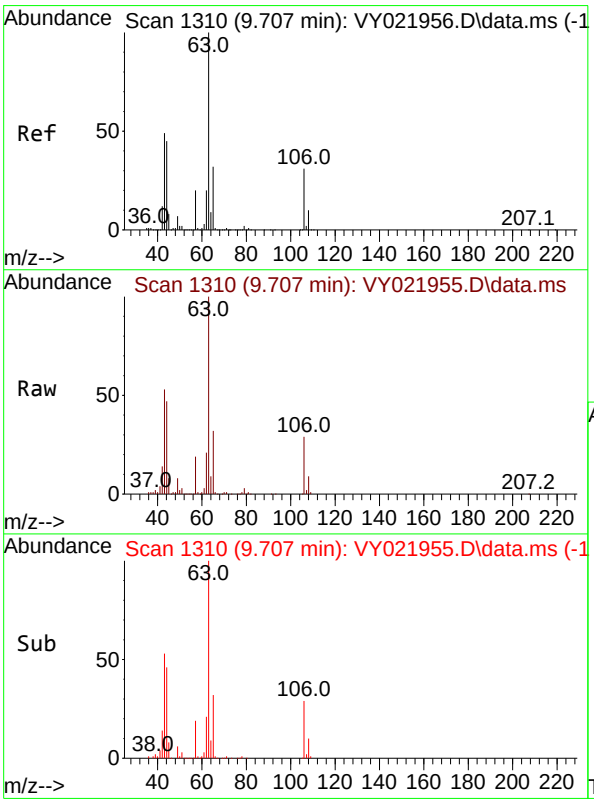
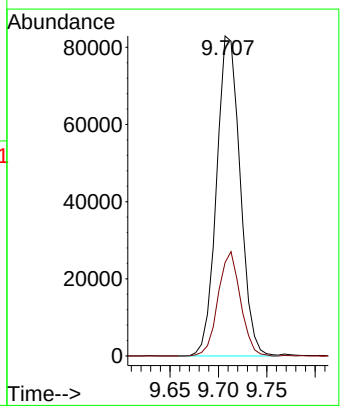


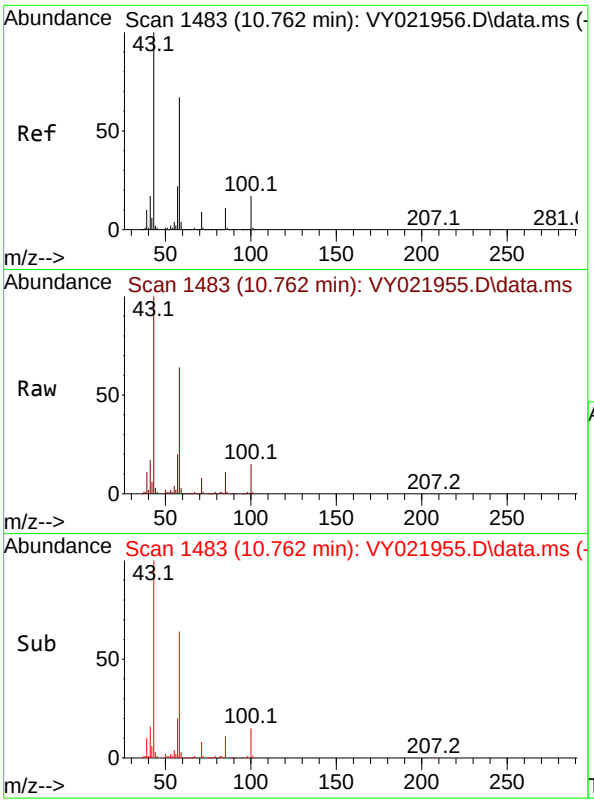


#58
2-Chloroethyl Vinyl ether
Concen: 102.027 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 63 Resp: 140435

Ion	Ratio	Lower	Upper
63	100		
106	30.9	25.3	37.9

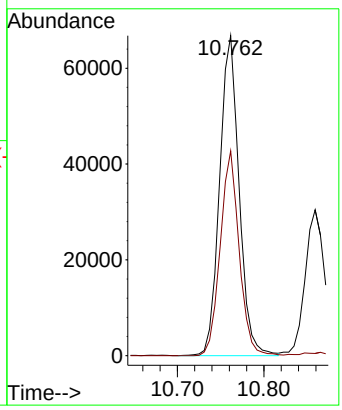




#59
2-Hexanone
Concen: 102.714 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 10432

Ion	Ratio	Lower	Upper
43	100		
58	62.1	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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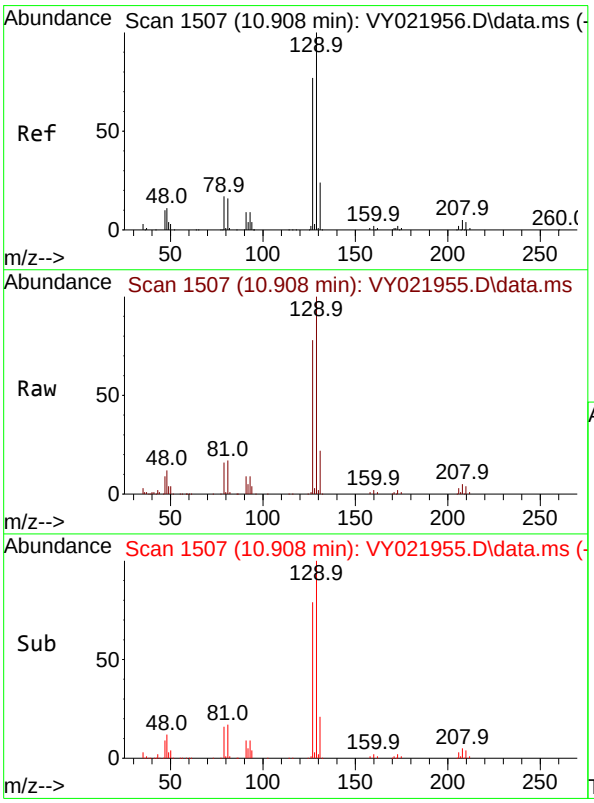
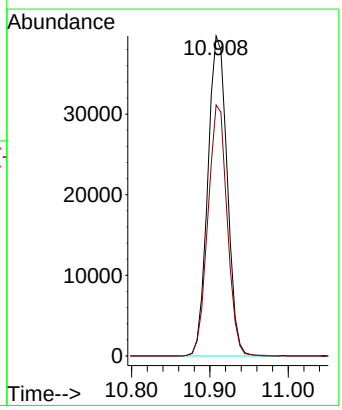
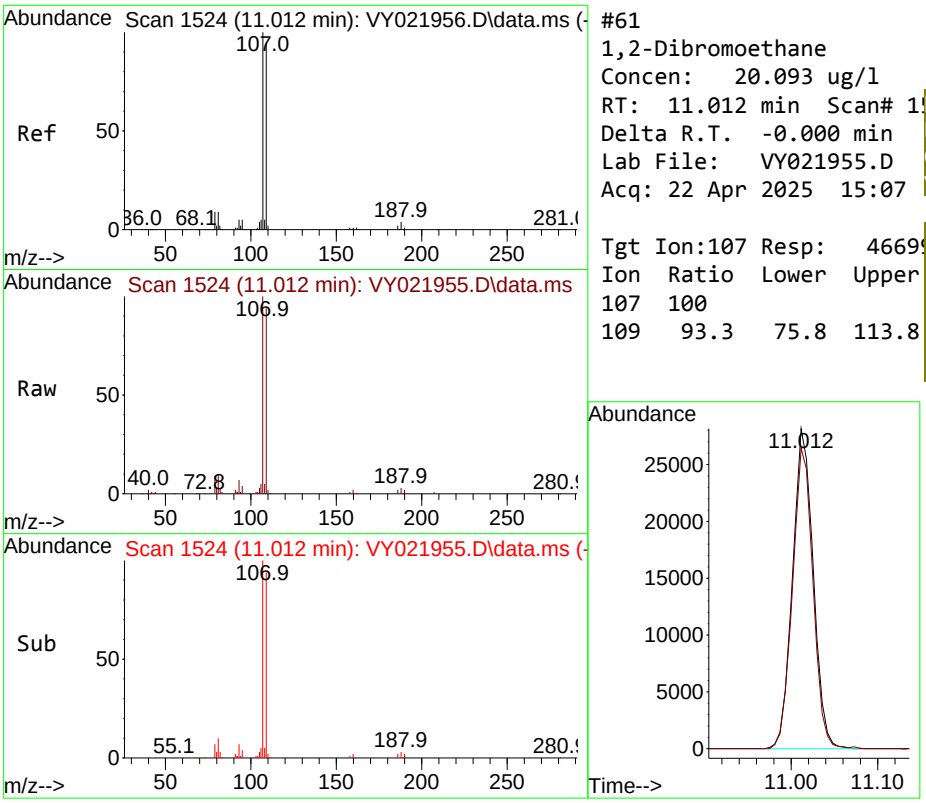


#60
Dibromochloromethane
Concen: 19.948 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:129 Resp: 67988

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.3





#61
1,2-Dibromoethane
Concen: 20.093 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:107 Resp: 4669

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.8	113.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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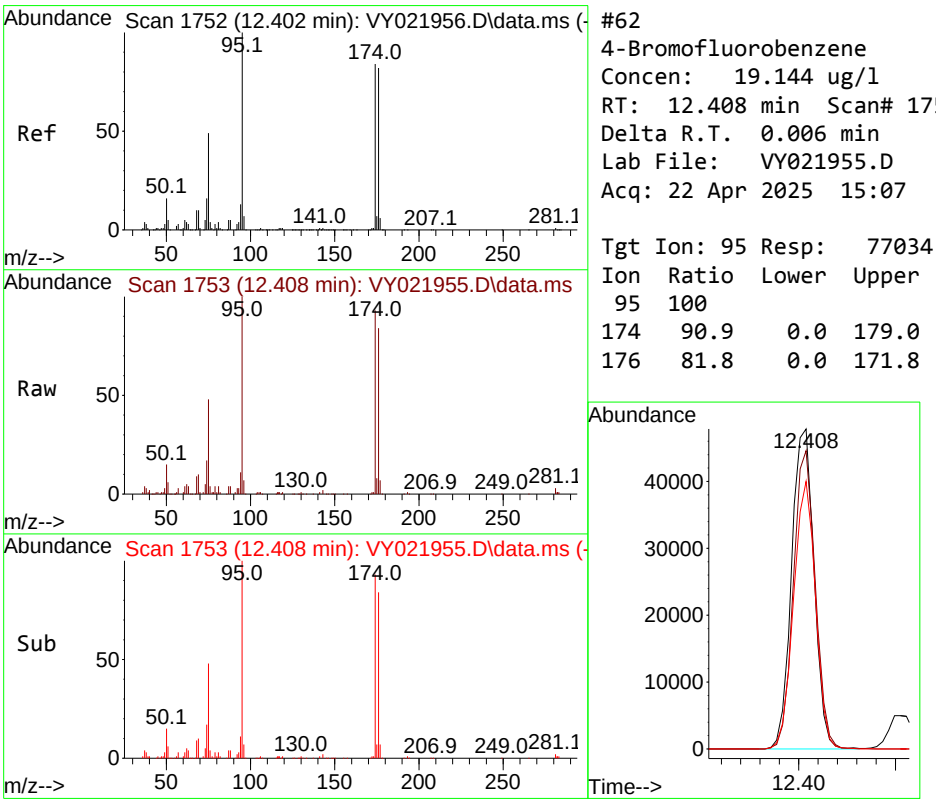
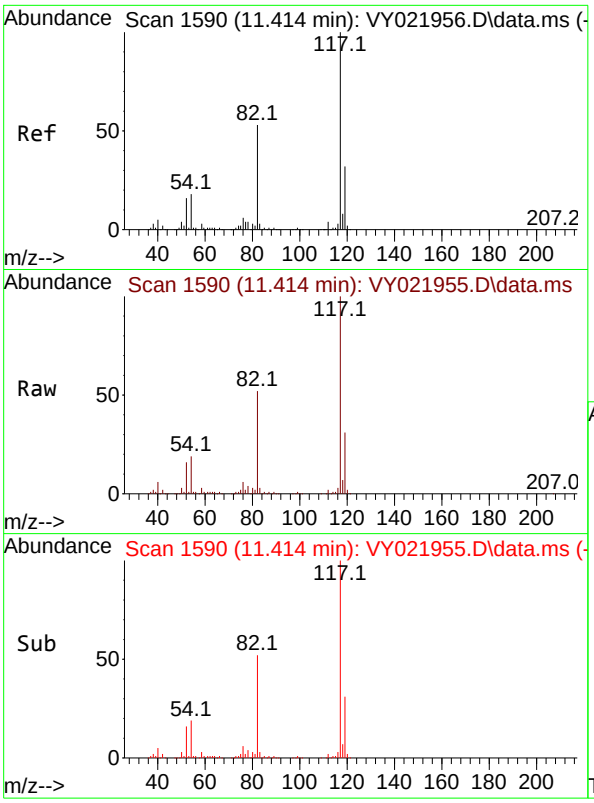


#62
4-Bromofluorobenzene
Concen: 19.144 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 95 Resp: 77034

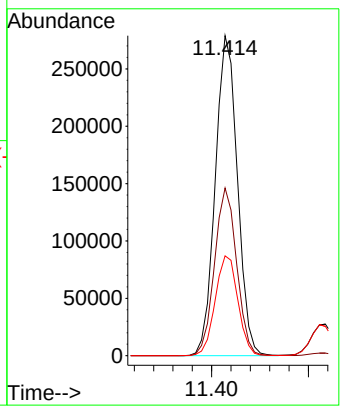
Ion	Ratio	Lower	Upper
95	100		
174	90.9	0.0	179.0
176	81.8	0.0	171.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:117 Resp: 44301

Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.1	63.1
119	31.2	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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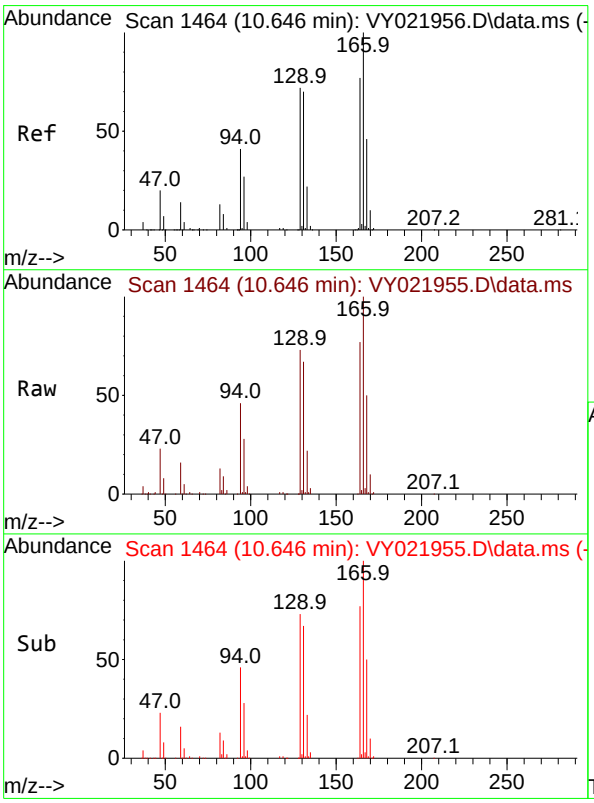
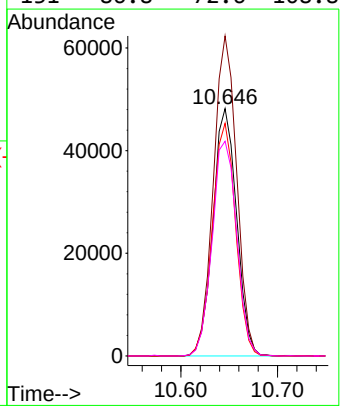
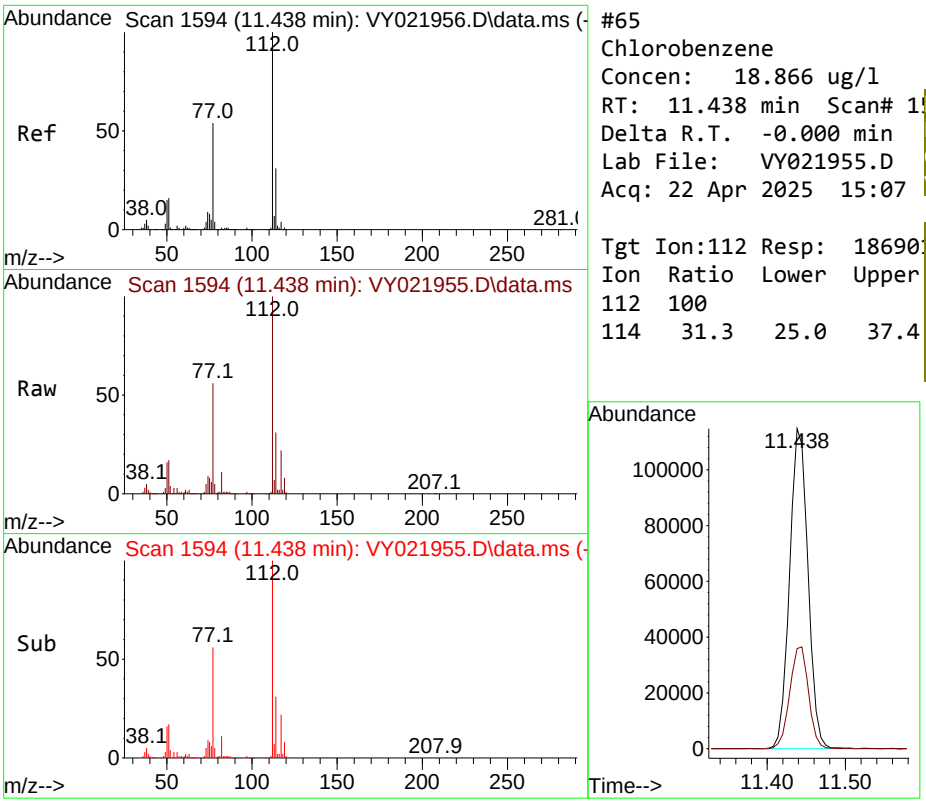


#64
Tetrachloroethene
Concen: 19.600 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:164 Resp: 81915

Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.6	155.4
129	94.0	74.2	111.4
131	86.8	72.6	108.8





#65
Chlorobenzene
Concen: 18.866 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:112 Resp: 18690

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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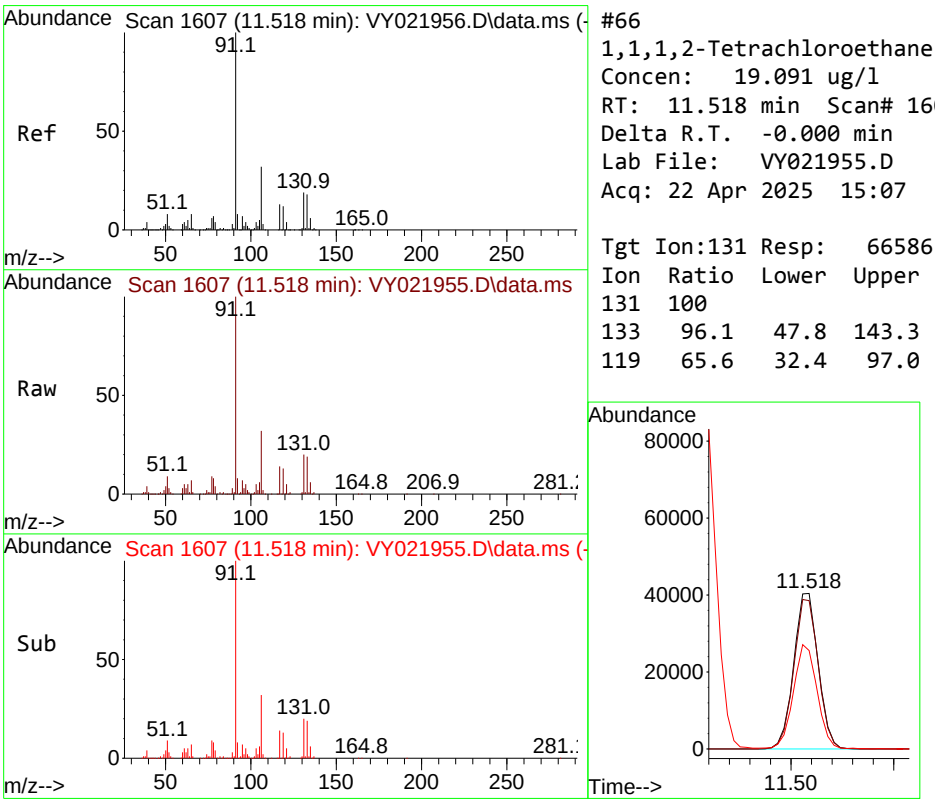
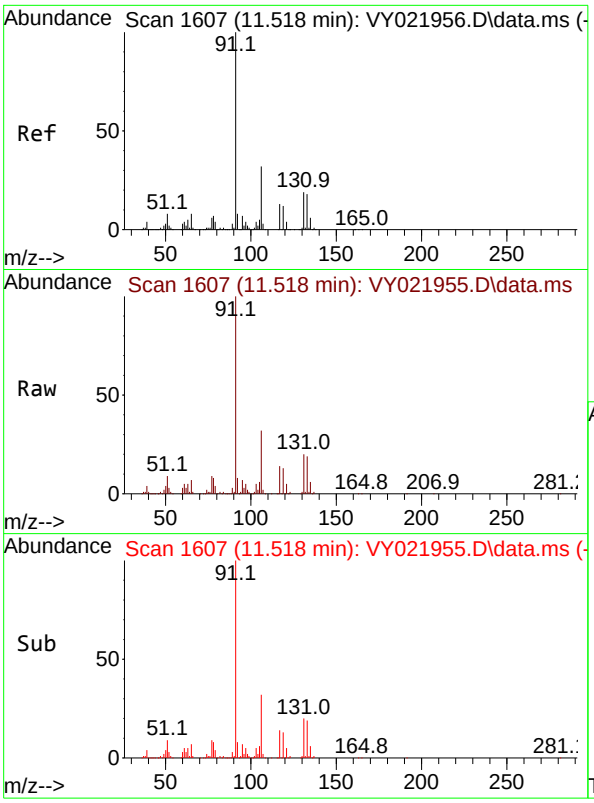


#66
1,1,1,2-Tetrachloroethane
Concen: 19.091 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:131 Resp: 66586

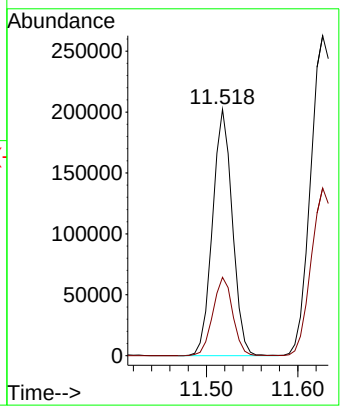
Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.8	143.3
119	65.6	32.4	97.0



#67
Ethyl Benzene
Concen: 18.789 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 91 Resp: 30450

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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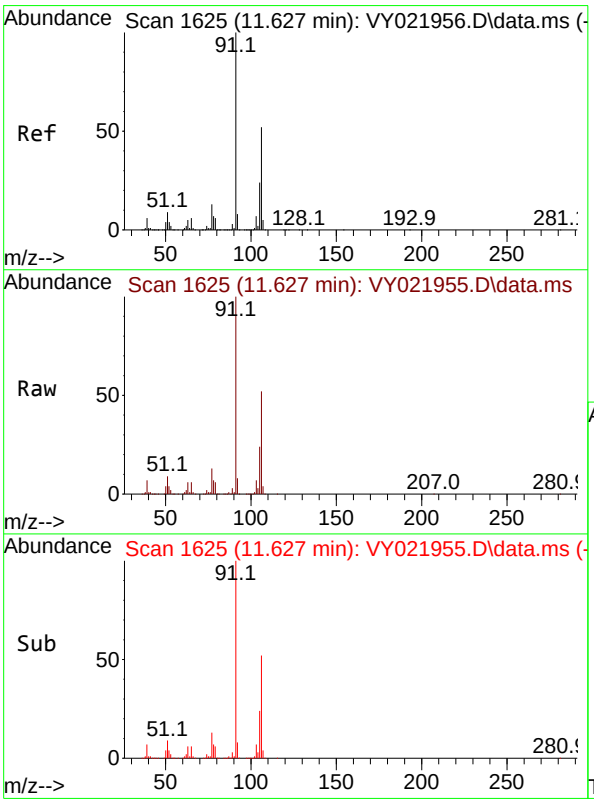
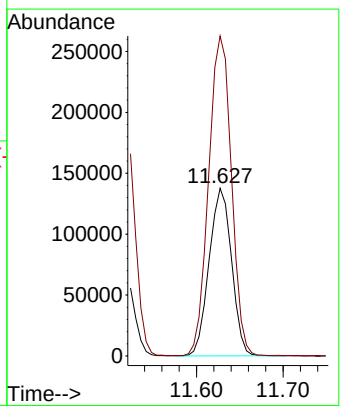
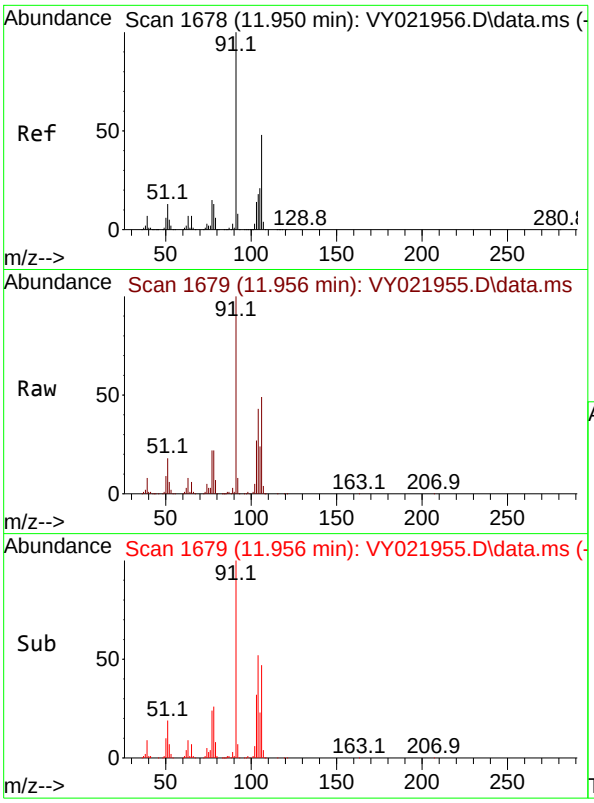


#68
m/p-Xylenes
Concen: 38.407 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:106 Resp: 247677

Ion	Ratio	Lower	Upper
106	100		
91	194.2	156.2	234.2

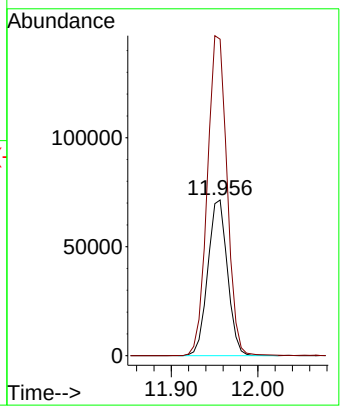




#69
o-Xylene
Concen: 18.945 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:106 Resp: 11260

Ion	Ratio	Lower	Upper
106	100		
91	206.1	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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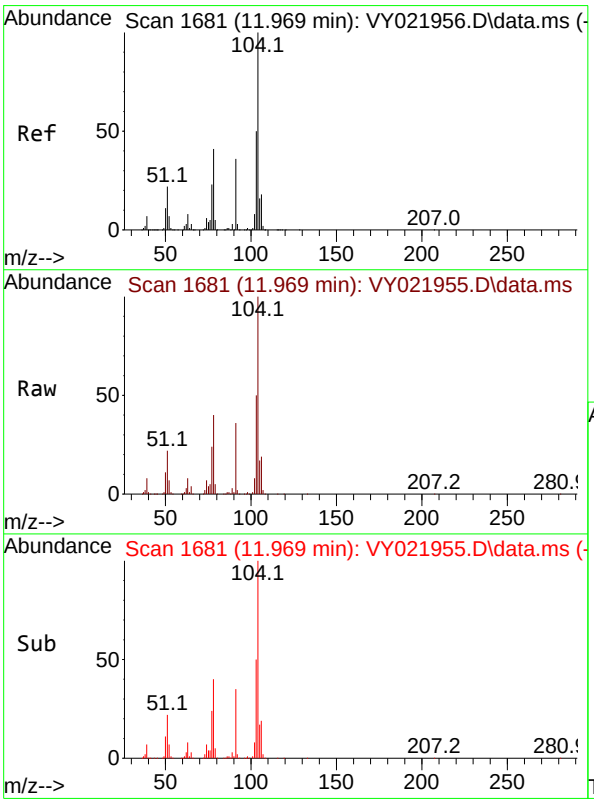
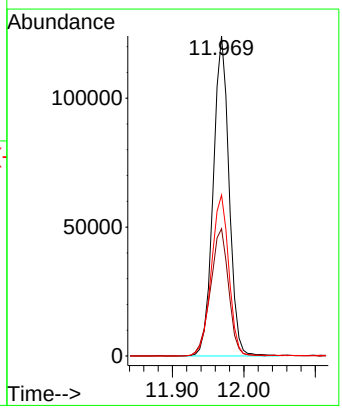
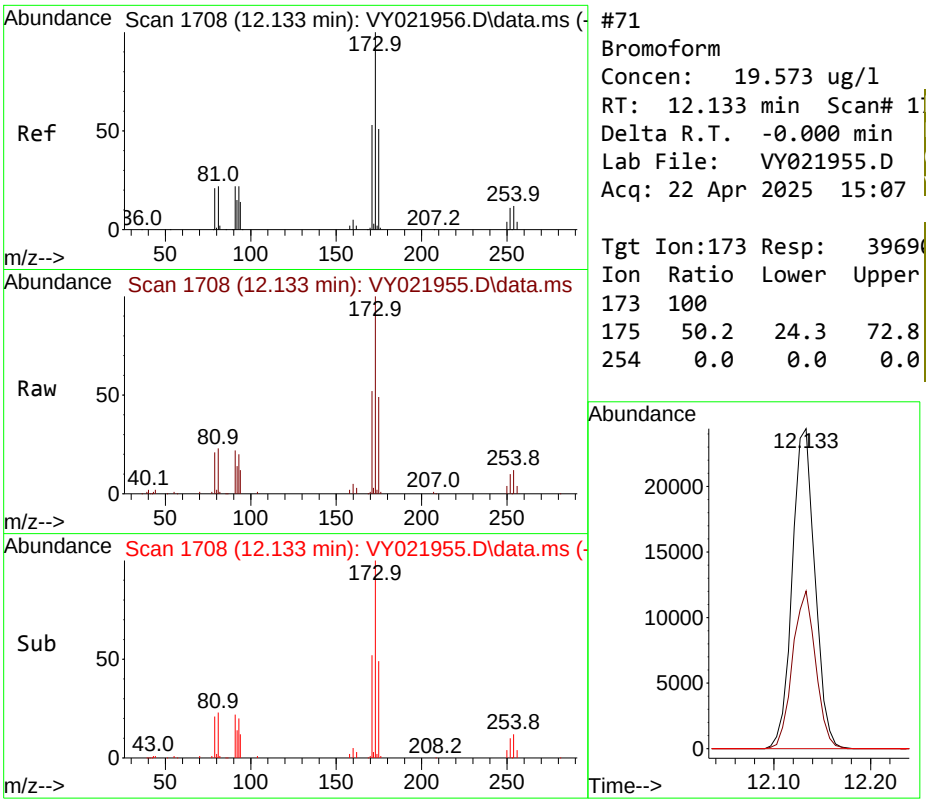


#70
Styrene
Concen: 19.149 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:104 Resp: 191106

Ion	Ratio	Lower	Upper
104	100		
78	45.3	36.6	54.8
103	55.3	43.8	65.8





#71
Bromoform
Concen: 19.573 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:173 Resp: 3969

Ion	Ratio	Lower	Upper
173	100		
175	50.2	24.3	72.8
254	0.0	0.0	0.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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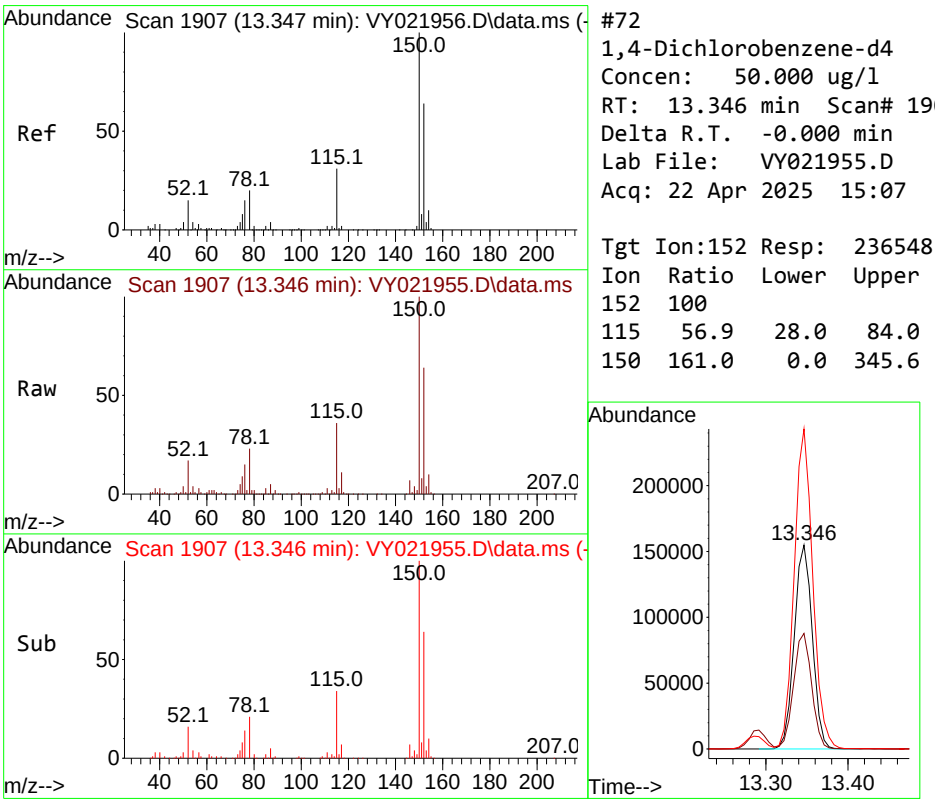
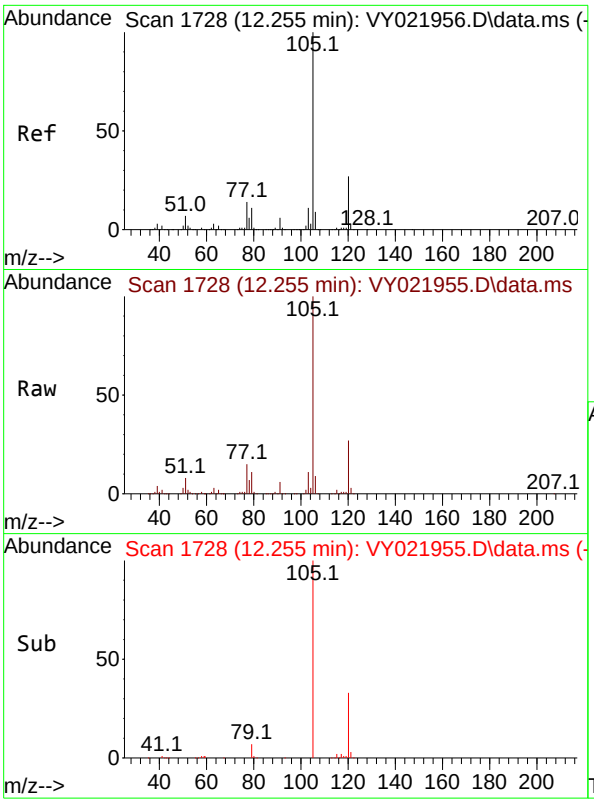
Supervised By :Mahesh Dadoda 04/23/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:152 Resp: 236548

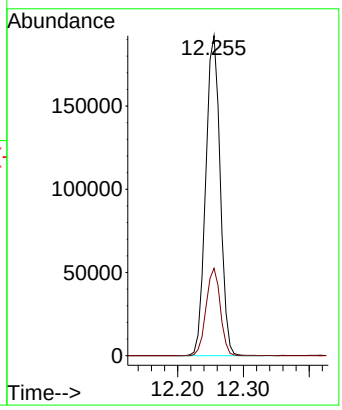
Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.0	84.0
150	161.0	0.0	345.6



#73
Isopropylbenzene
Concen: 18.570 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:105 Resp: 29348

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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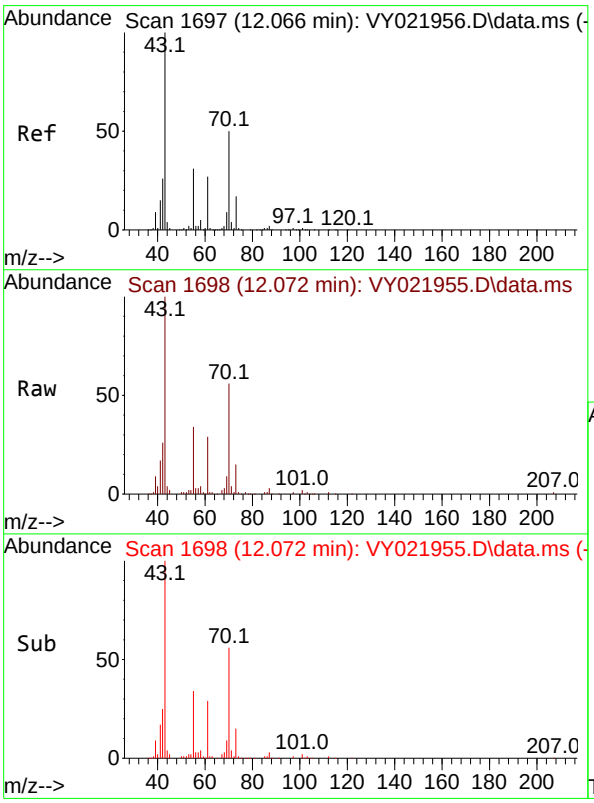
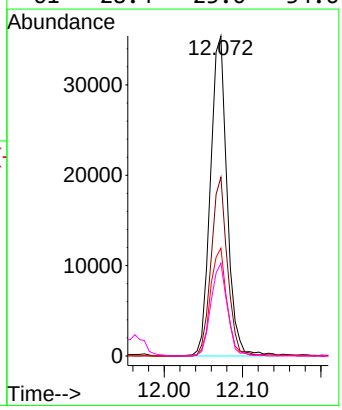
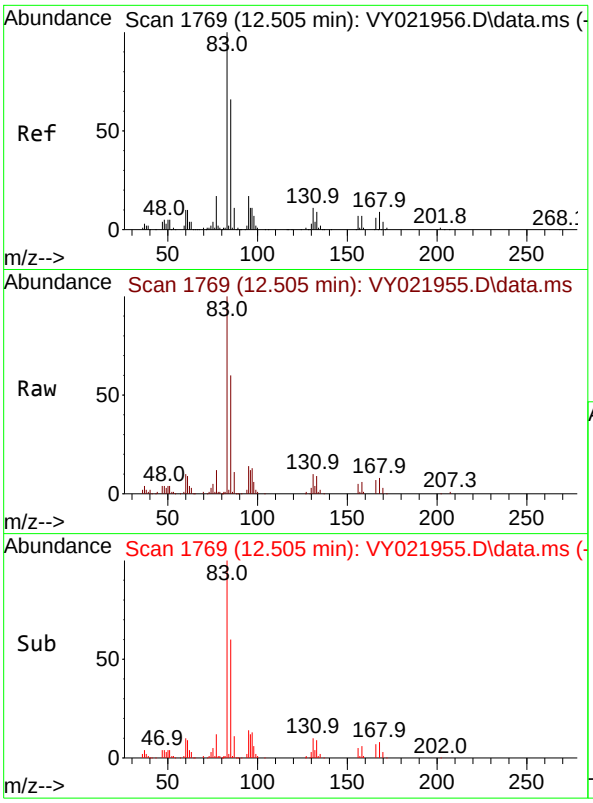


#74
N-amyl acetate
Concen: 19.271 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 43 Resp: 52325

Ion	Ratio	Lower	Upper
43	100		
70	54.1	43.2	64.8
55	33.2	25.7	38.5
61	28.4	23.0	34.6

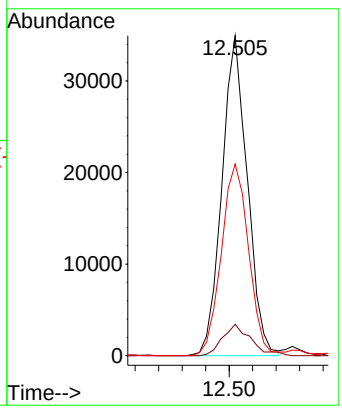




#75
1,1,2,2-Tetrachloroethane
Concen: 19.713 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 83 Resp: 5252

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.5	16.4
85	64.5	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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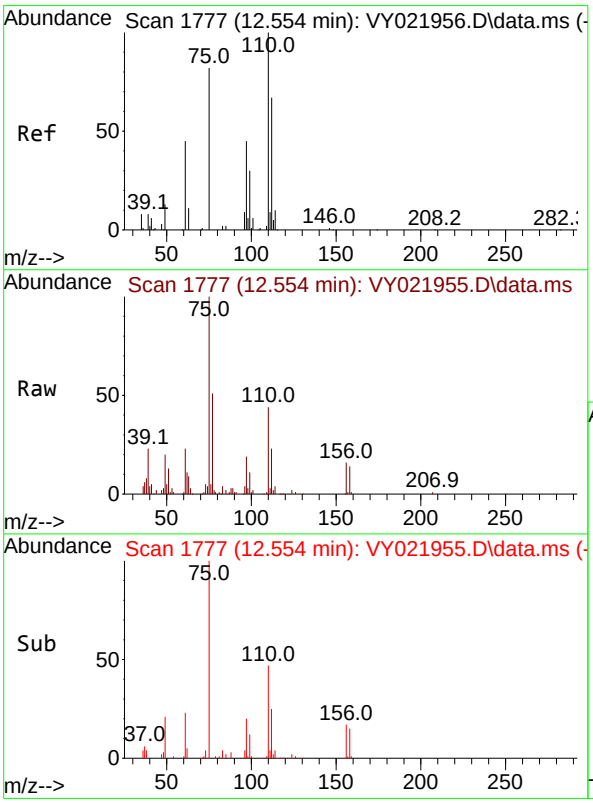
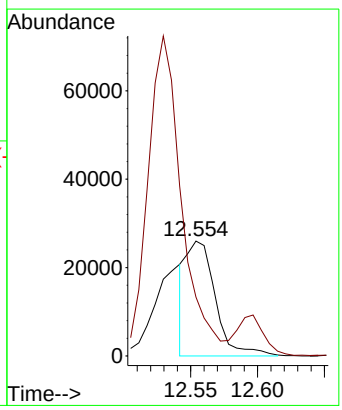
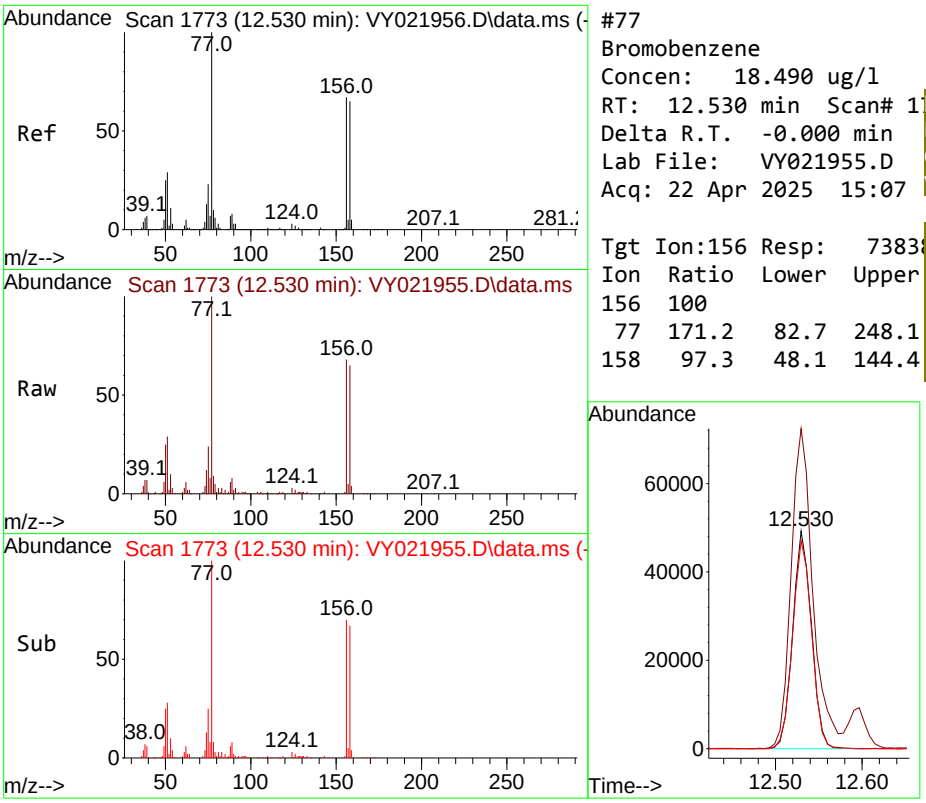


#76
1,2,3-Trichloropropane
Concen: 18.965 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 75 Resp: 39530

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 18.490 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:156 Resp: 7383

Ion	Ratio	Lower	Upper
156	100		
77	171.2	82.7	248.1
158	97.3	48.1	144.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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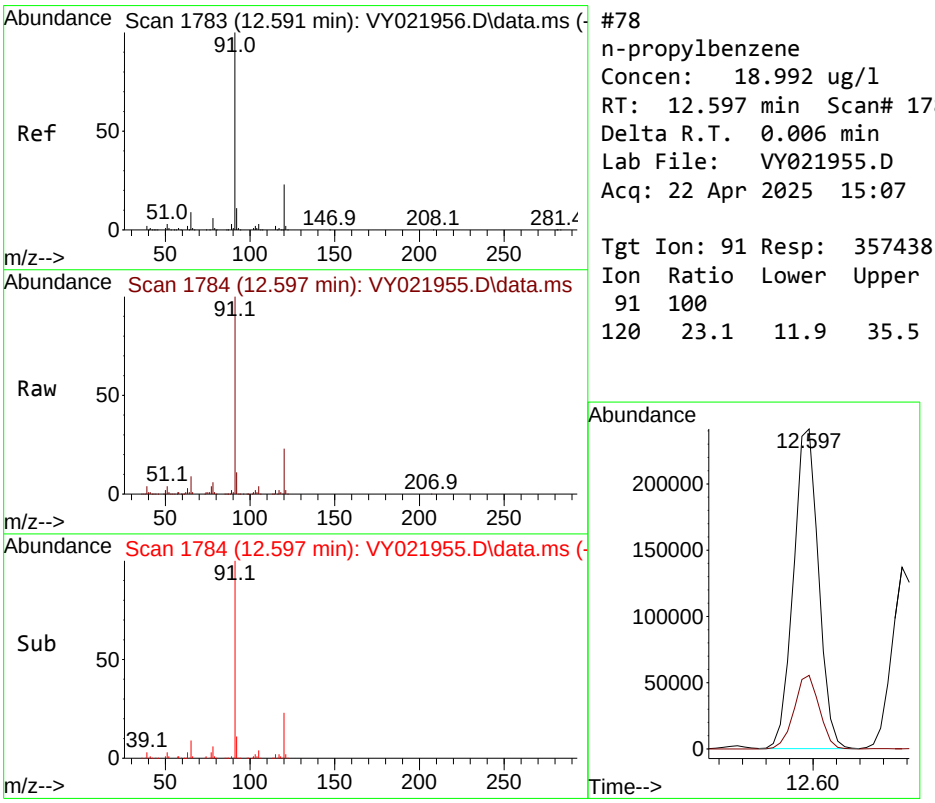
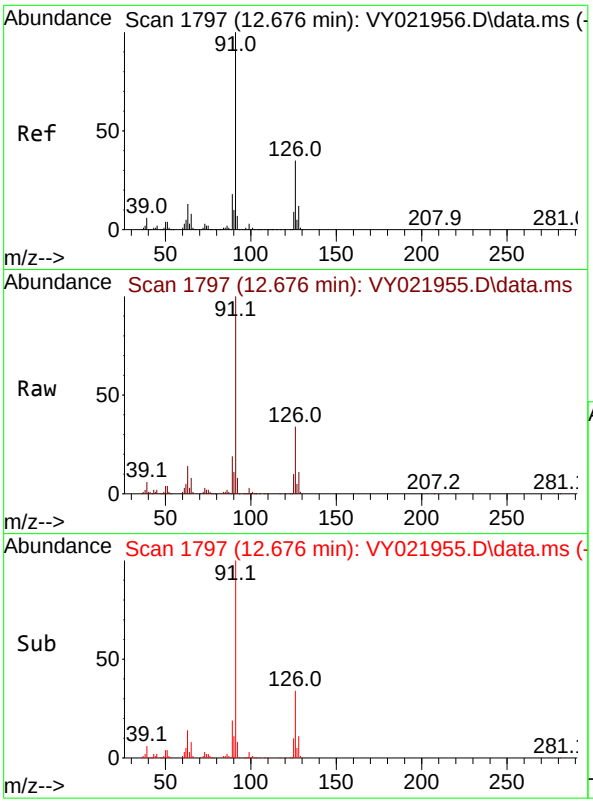


#78
n-propylbenzene
Concen: 18.992 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 91 Resp: 357438

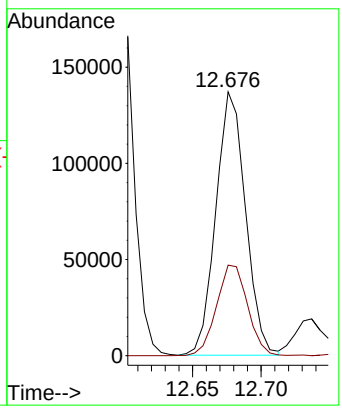
Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.9	35.5



#79
2-Chlorotoluene
Concen: 18.840 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 91 Resp: 20621

Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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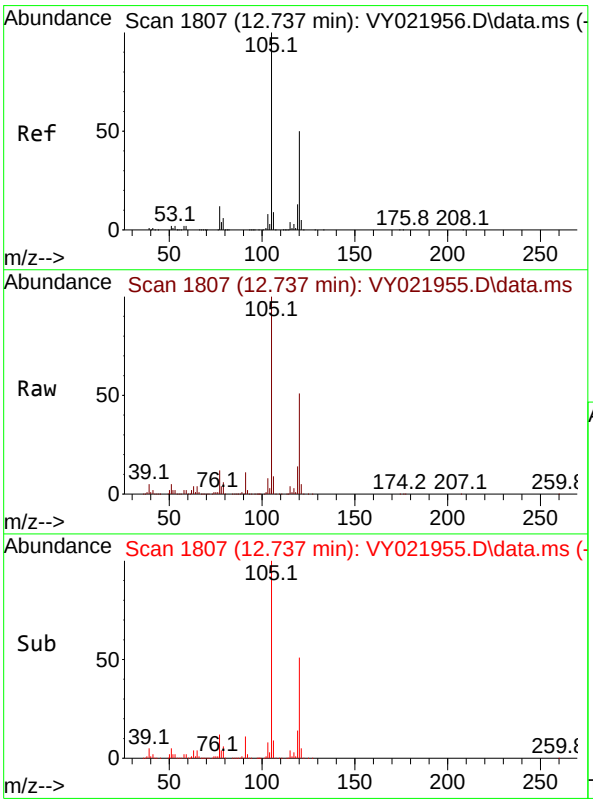
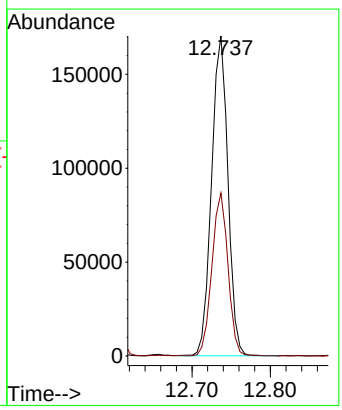
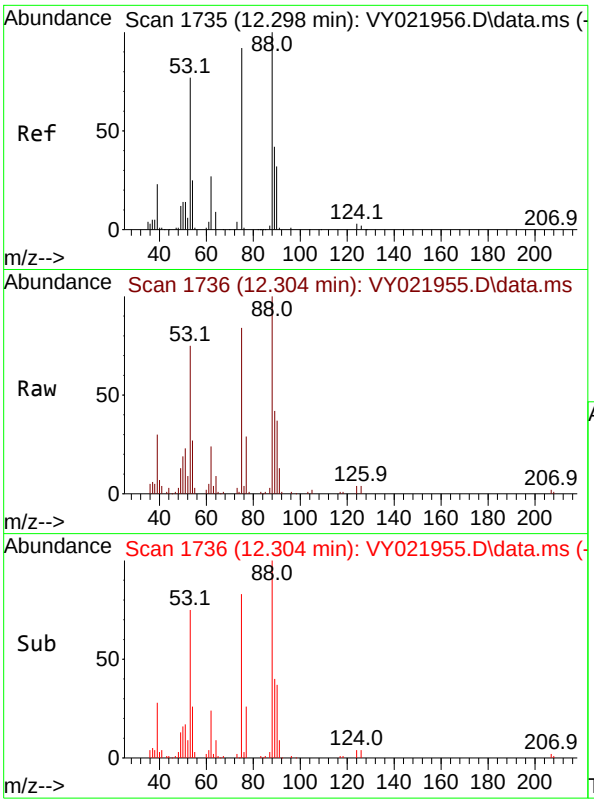


#80
1,3,5-Trimethylbenzene
Concen: 18.997 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:105 Resp: 247372

Ion	Ratio	Lower	Upper
105	100		
120	50.1	25.0	75.0





#81
trans-1,4-Dichloro-2-butene
Concen: 19.163 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 75 Resp: 1612

Ion	Ratio	Lower	Upper
75	100		
53	85.8	66.0	99.0
89	49.1	37.2	55.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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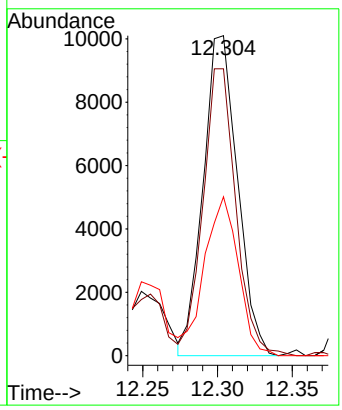
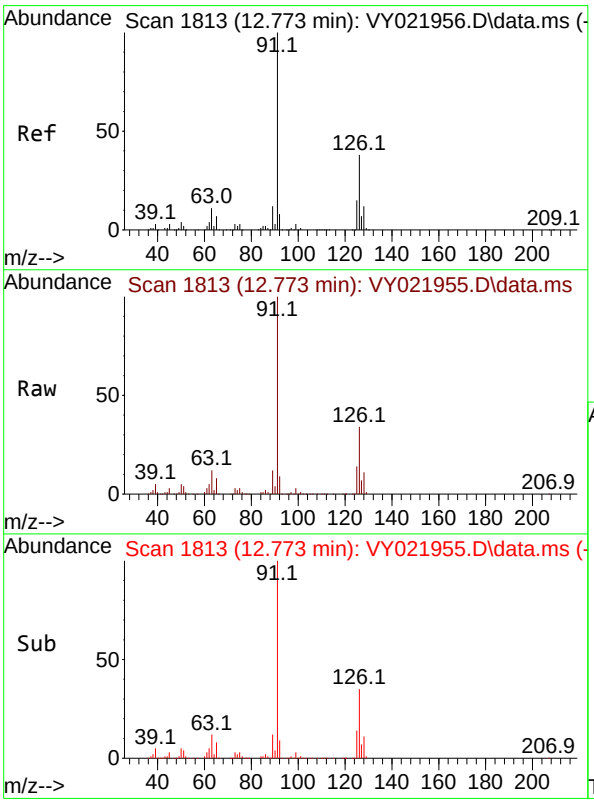
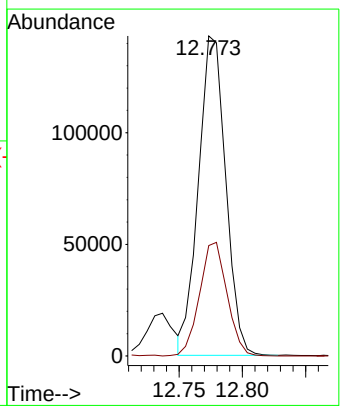


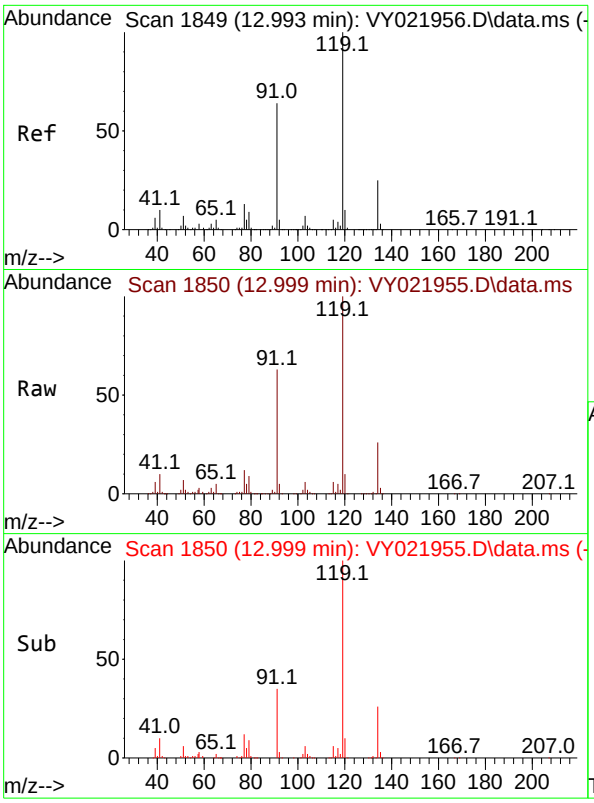


#82
4-Chlorotoluene
Concen: 18.876 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 91 Resp: 214776

Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.9	53.8

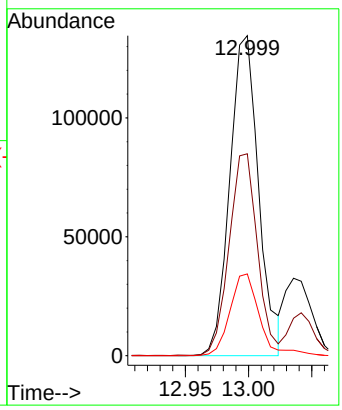




#83
tert-Butylbenzene
Concen: 18.337 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:119 Resp: 21414

Ion	Ratio	Lower	Upper
119	100		
91	61.8	30.3	90.9
134	26.2	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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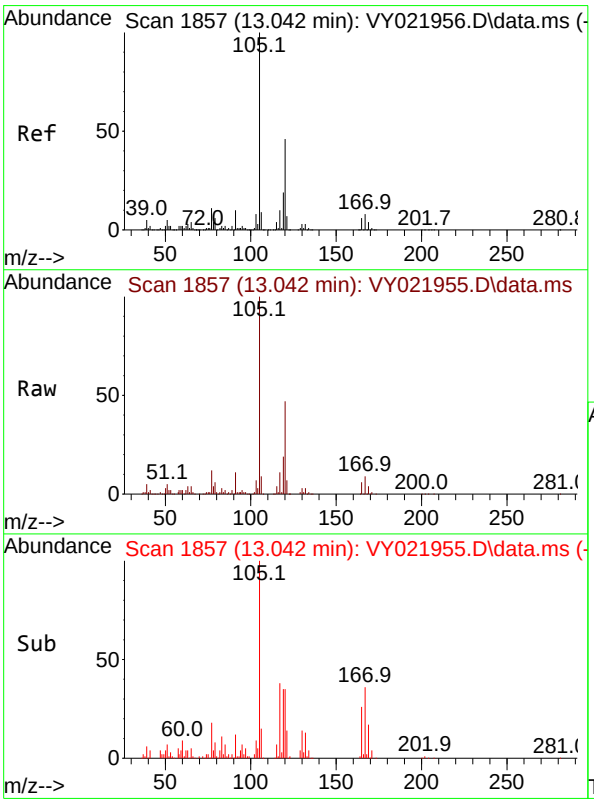
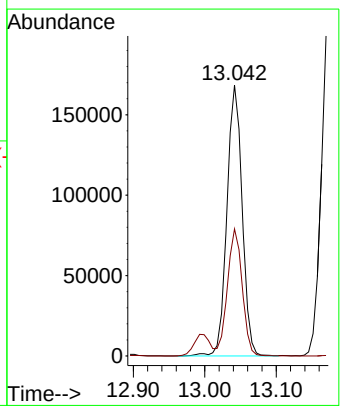
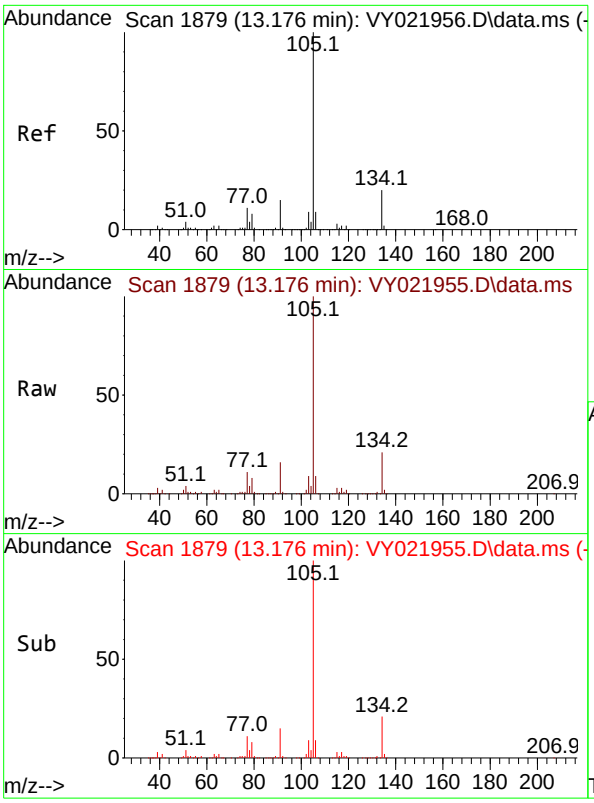


#84
1,2,4-Trimethylbenzene
Concen: 19.110 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:105 Resp: 248902

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.4	70.0

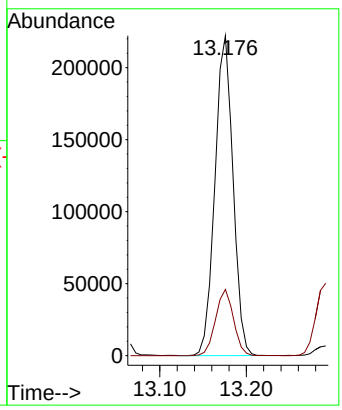




#85
sec-Butylbenzene
Concen: 18.873 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:105 Resp: 32252

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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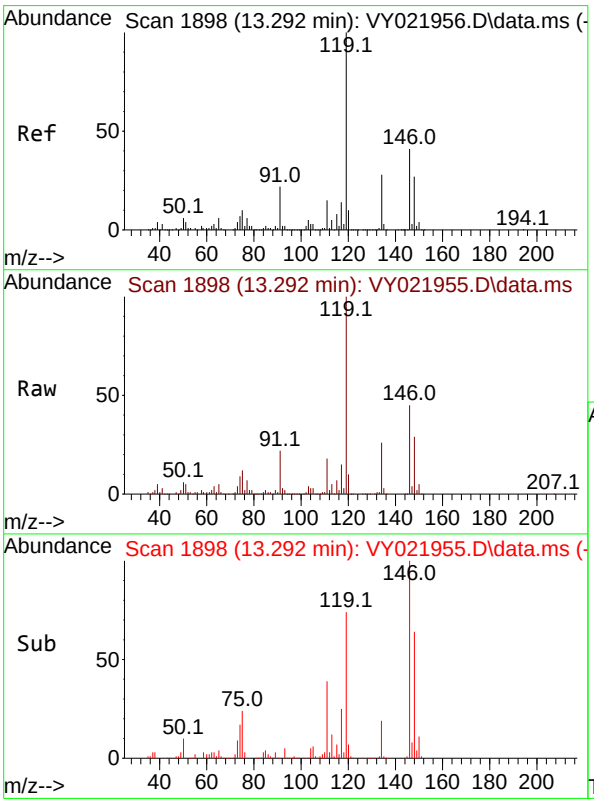
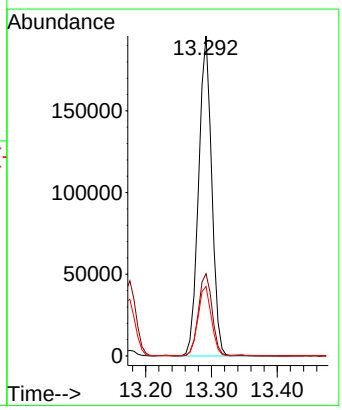
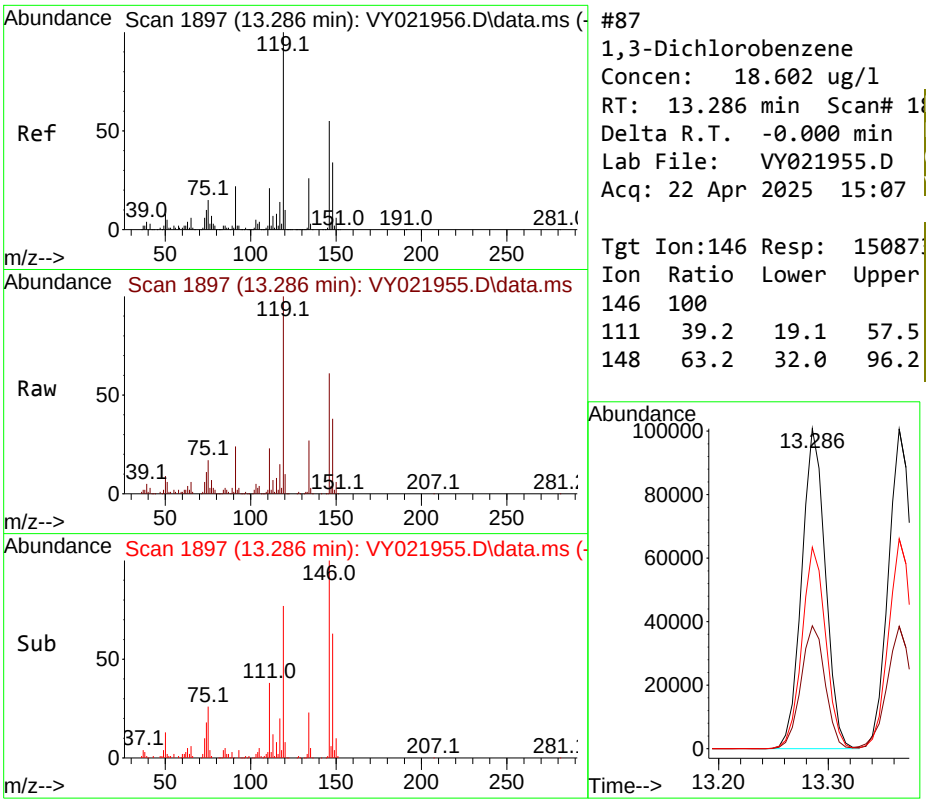


#86
p-Isopropyltoluene
Concen: 18.706 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:119 Resp: 271440

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.6	40.7
91	22.1	11.0	33.0





#87
1,3-Dichlorobenzene
Concen: 18.602 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:146 Resp: 15087

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.1	57.5
148	63.2	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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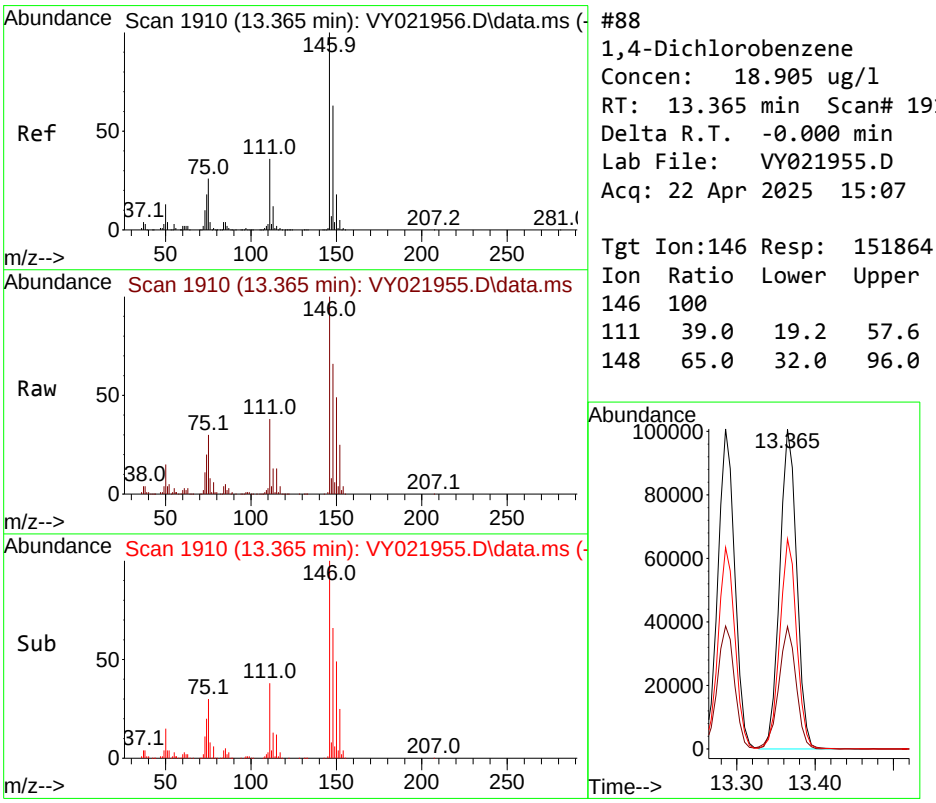
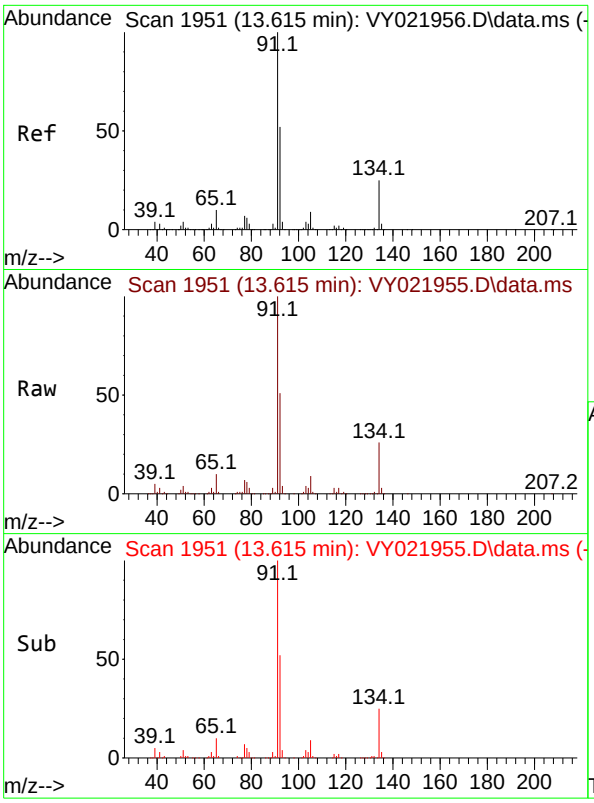


#88
1,4-Dichlorobenzene
Concen: 18.905 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:146 Resp: 151864

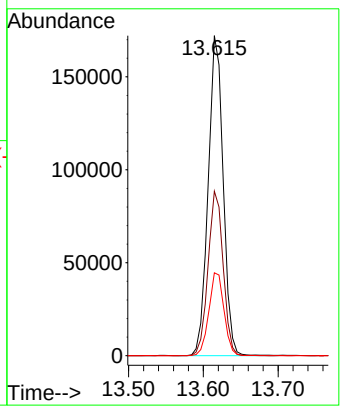
Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.2	57.6
148	65.0	32.0	96.0



#89
n-Butylbenzene
Concen: 18.566 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 91 Resp: 24081

Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.5	79.5
134	26.2	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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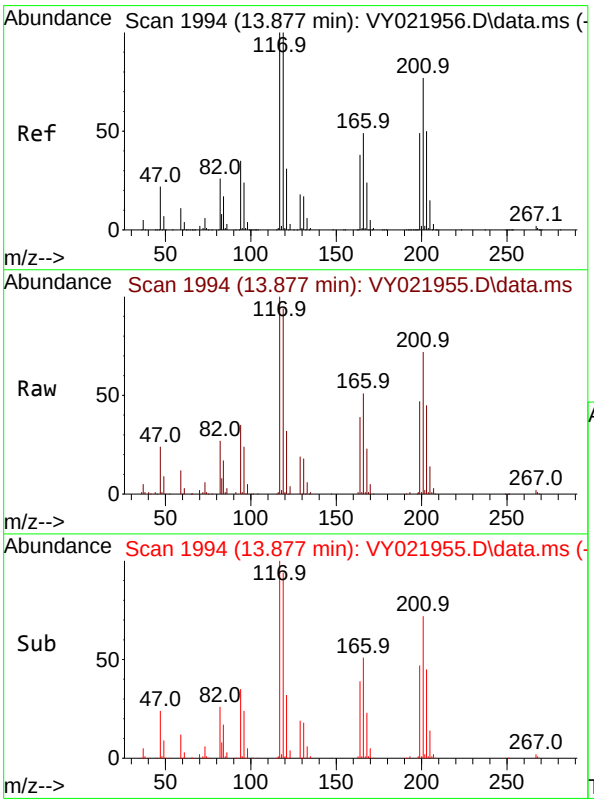
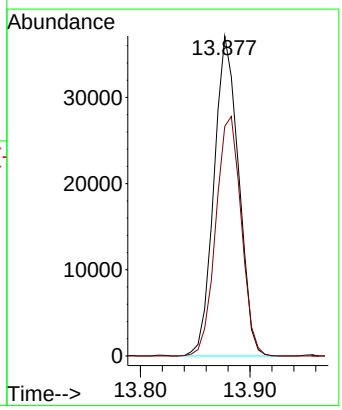
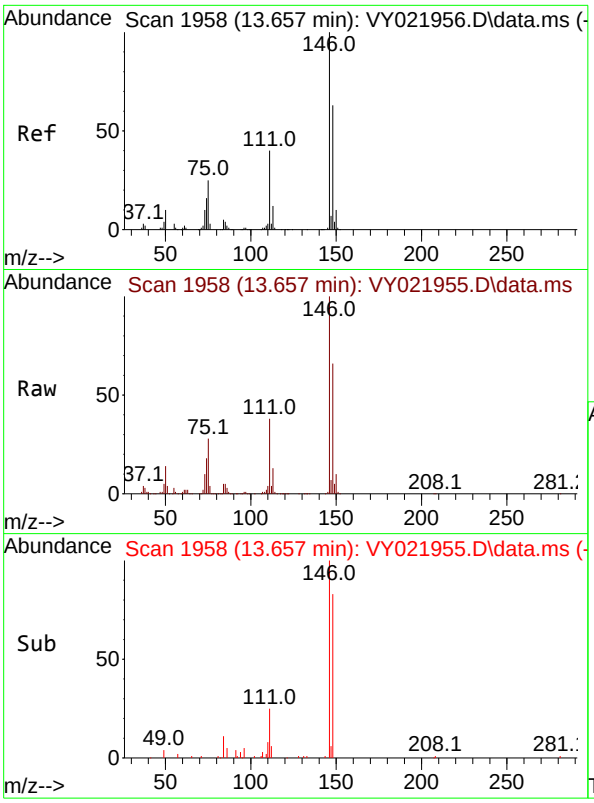


#90
Hexachloroethane
Concen: 18.211 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:117 Resp: 58060

Ion	Ratio	Lower	Upper
117	100		
201	76.9	38.7	116.1

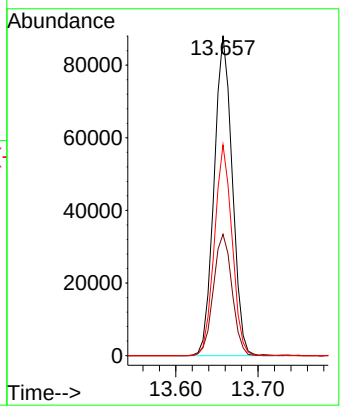




#91
1,2-Dichlorobenzene
Concen: 19.175 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:146 Resp: 13565

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.7	59.1
148	63.8	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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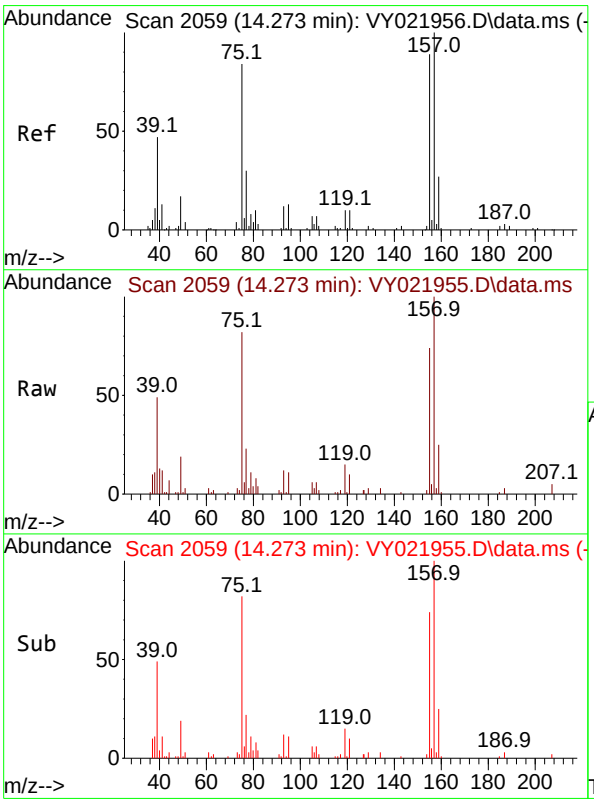
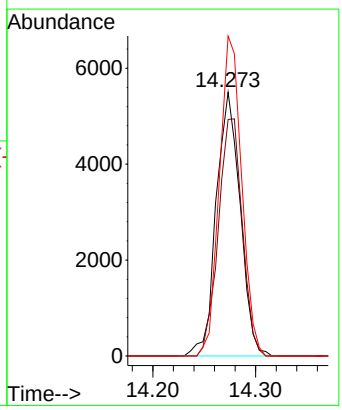
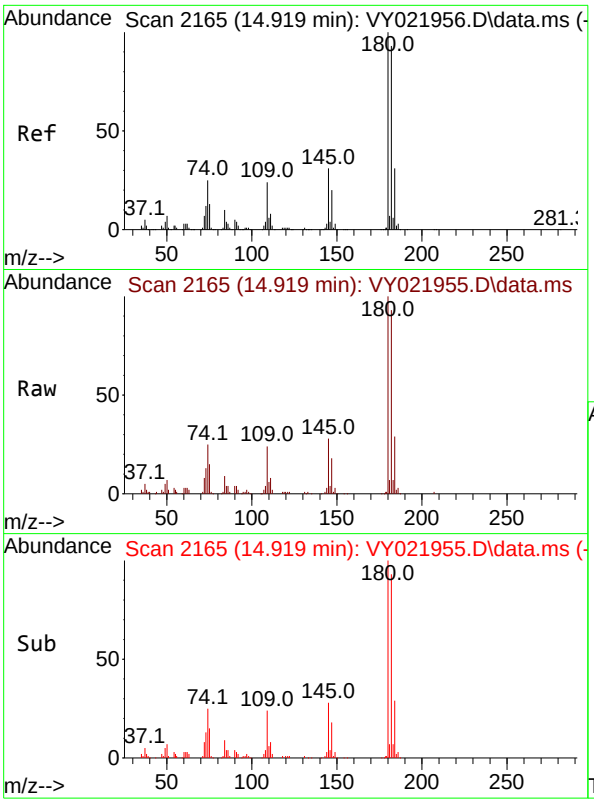


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.910 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion: 75 Resp: 8864

Ion	Ratio	Lower	Upper
75	100		
155	90.1	50.7	152.3
157	113.1	62.6	187.8

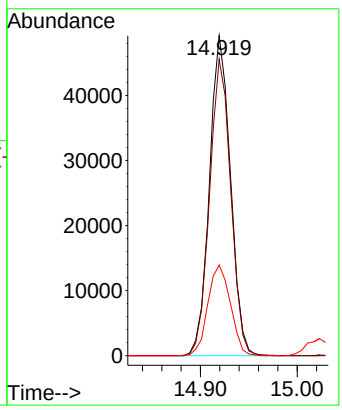




#93
1,2,4-Trichlorobenzene
Concen: 18.532 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:180 Resp: 7428

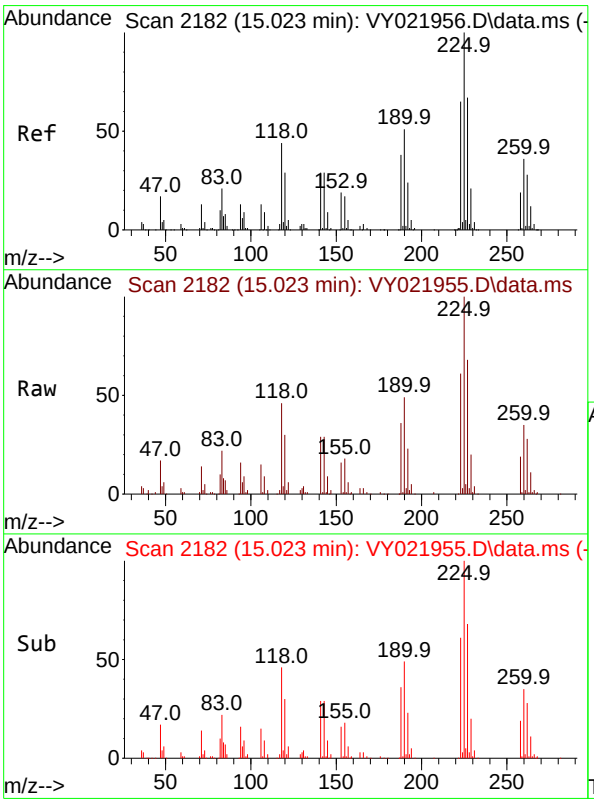
Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.1	141.4
145	30.4	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

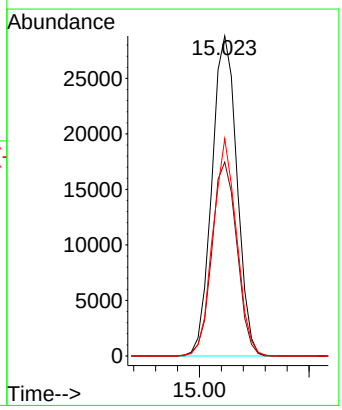
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

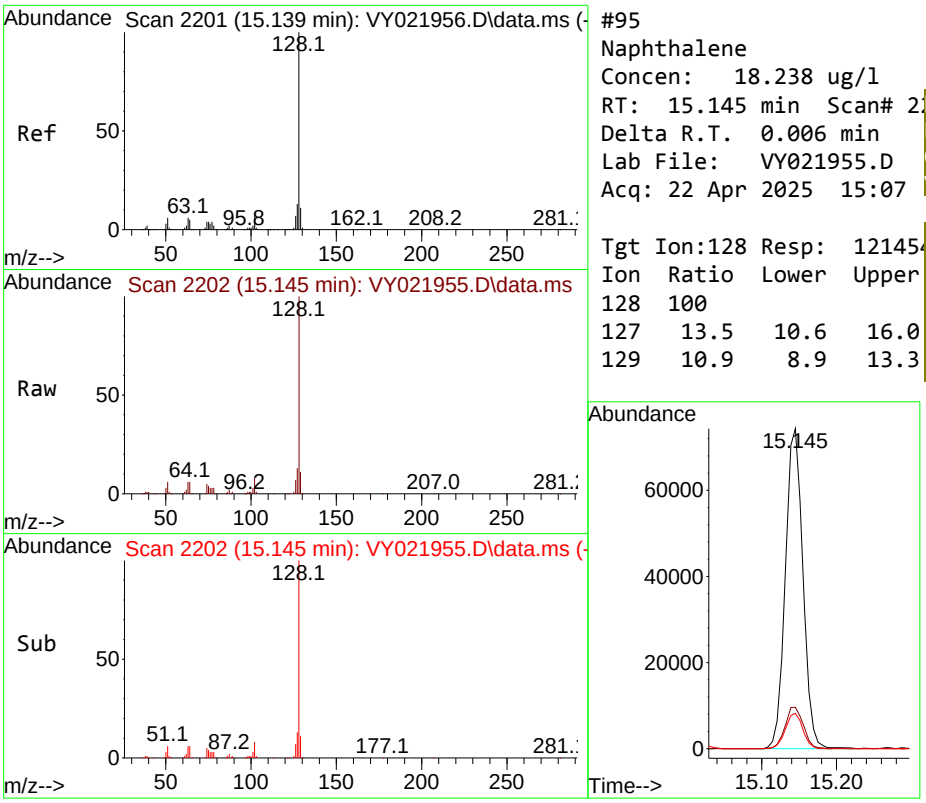


#94
Hexachlorobutadiene
Concen: 18.538 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:225 Resp: 45722

Ion	Ratio	Lower	Upper
225	100		
223	60.5	31.9	95.5
227	64.3	32.3	96.9





#95
Naphthalene
Concen: 18.238 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

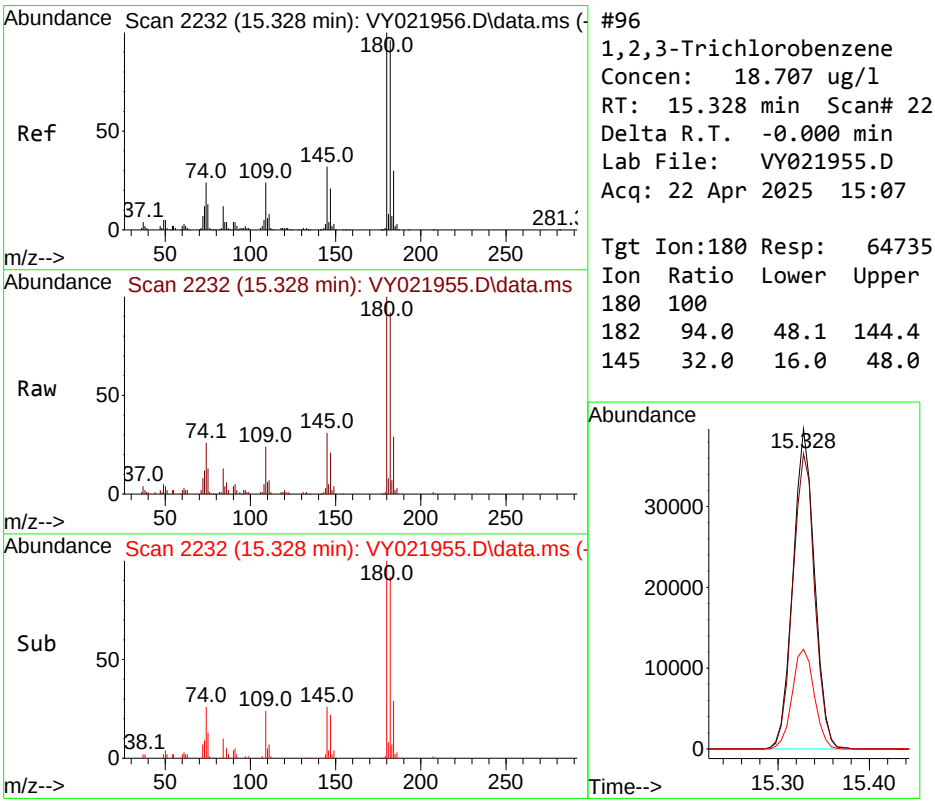
Tgt Ion:128 Resp: 12145

Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	16.0
129	10.9	8.9	13.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.707 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY021955.D
Acq: 22 Apr 2025 15:07

Tgt Ion:180 Resp: 64735

Ion	Ratio	Lower	Upper
180	100		
182	94.0	48.1	144.4
145	32.0	16.0	48.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	321453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	499724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	458508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	245926	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	149695	50.416	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.840%			
35) Dibromofluoromethane	7.634	113	164867	49.938	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.880%			
50) Toluene-d8	10.103	98	637767	51.241	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.480%			
62) 4-Bromofluorobenzene	12.402	95	212936	50.820	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	126242	46.089	ug/l	100
3) Chloromethane	2.062	50	193657	49.653	ug/l	100
4) Vinyl Chloride	2.196	62	234756	48.981	ug/l	100
5) Bromomethane	2.592	94	191530	46.385	ug/l	100
6) Chloroethane	2.733	64	158887	48.677	ug/l	100
7) Trichlorofluoromethane	3.050	101	308523	48.817	ug/l	100
8) Diethyl Ether	3.452	74	79512	48.337	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	157297	45.881	ug/l	100
10) Methyl Iodide	4.001	142	202276	50.959	ug/l	100
11) Tert butyl alcohol	4.879	59	41968	257.462	ug/l	100
12) 1,1-Dichloroethene	3.787	96	151531	47.419	ug/l	100
13) Acrolein	3.653	56	68275	233.366	ug/l	100
14) Allyl chloride	4.379	41	178559	47.988	ug/l	100
15) Acrylonitrile	5.055	53	150181	249.387	ug/l	100
16) Acetone	3.879	43	101417	261.973	ug/l	100
17) Carbon Disulfide	4.098	76	479842	47.094	ug/l	100
18) Methyl Acetate	4.385	43	71756	51.735	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	364107	50.907	ug/l	100
20) Methylene Chloride	4.610	84	171472	45.671	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	171054	47.796	ug/l	100
22) Diisopropyl ether	6.019	45	414816	50.096	ug/l	100
23) Vinyl Acetate	5.958	43	1151100	257.942	ug/l	100
24) 1,1-Dichloroethane	5.915	63	274136	47.762	ug/l	100
25) 2-Butanone	6.896	43	169727	250.772	ug/l	100
26) 2,2-Dichloropropane	6.884	77	238816	47.472	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	196712	49.157	ug/l	100
28) Bromochloromethane	7.244	49	110399	49.520	ug/l	100
29) Tetrahydrofuran	7.262	42	117311	266.870	ug/l	100
30) Chloroform	7.421	83	307243	48.259	ug/l	100
31) Cyclohexane	7.701	56	227735	46.398	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	274062	47.581	ug/l	100
36) 1,1-Dichloropropene	7.835	75	212523	47.923	ug/l	100
37) Ethyl Acetate	6.982	43	80627	51.312	ug/l	100
38) Carbon Tetrachloride	7.817	117	253502	47.838	ug/l	100
39) Methylcyclohexane	9.109	83	274408	49.170	ug/l	100
40) Benzene	8.079	78	667899	48.179	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	45898	52.696	ug/l		100
42) 1,2-Dichloroethane	8.158	62	167612	48.835	ug/l		100
43) Isopropyl Acetate	8.195	43	155835	50.948	ug/l		100
44) Trichloroethene	8.860	130	183327	47.744	ug/l		100
45) 1,2-Dichloropropane	9.140	63	149687	48.827	ug/l		100
46) Dibromomethane	9.231	93	93536	48.740	ug/l		100
47) Bromodichloromethane	9.420	83	234964	49.010	ug/l		100
48) Methyl methacrylate	9.219	41	75057	53.082	ug/l		100
49) 1,4-Dioxane	9.238	88	20303	992.601	ug/l		100
51) 4-Methyl-2-Pentanone	10.000	43	428635	267.326	ug/l		100
52) Toluene	10.170	92	446525	49.760	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	208479	50.698	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	241637	49.432	ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	128082	49.965	ug/l		100
56) Ethyl methacrylate	10.439	69	157986	53.893	ug/l		100
57) 1,3-Dichloropropane	10.713	76	204196	49.688	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	401030	279.797	ug/l		100
59) 2-Hexanone	10.762	43	286755	271.141	ug/l		100
60) Dibromochloromethane	10.908	129	176120	49.624	ug/l		100
61) 1,2-Dibromoethane	11.012	107	120604	49.835	ug/l		100
64) Tetrachloroethene	10.646	164	208756	48.263	ug/l		100
65) Chlorobenzene	11.438	112	496647	48.437	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	177151	49.075	ug/l		100
67) Ethyl Benzene	11.518	91	841384	50.163	ug/l		100
68) m/p-Xylenes	11.627	106	673159	100.858	ug/l		100
69) o-Xylene	11.950	106	315731	51.325	ug/l		100
70) Styrene	11.969	104	535957	51.890	ug/l		100
71) Bromoform	12.133	173	105166	50.110	ug/l	#	100
73) Isopropylbenzene	12.255	105	817740	49.770	ug/l		100
74) N-amyl acetate	12.066	43	145415	51.512	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	134856	48.682	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	99679m	45.999	ug/l		
77) Bromobenzene	12.530	156	203522	49.021	ug/l		100
78) n-propylbenzene	12.591	91	977958	49.981	ug/l		100
79) 2-Chlorotoluene	12.676	91	560805	49.283	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	688578	50.863	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	43472	49.698	ug/l		100
82) 4-Chlorotoluene	12.773	91	585277	49.478	ug/l		100
83) tert-Butylbenzene	12.993	119	613293	50.513	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	684634	50.560	ug/l		100
85) sec-Butylbenzene	13.176	105	885790	49.857	ug/l		100
86) p-Isopropyltoluene	13.292	119	760829	50.431	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	405153	48.048	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	398336	47.697	ug/l		100
89) n-Butylbenzene	13.615	91	674346	50.008	ug/l		100
90) Hexachloroethane	13.877	117	156957	47.353	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	357028	48.544	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	20698	46.964	ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	202386	48.561	ug/l		100
94) Hexachlorobutadiene	15.023	225	117976	46.009	ug/l		100
95) Naphthalene	15.139	128	353130	51.007	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	173778	48.304	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

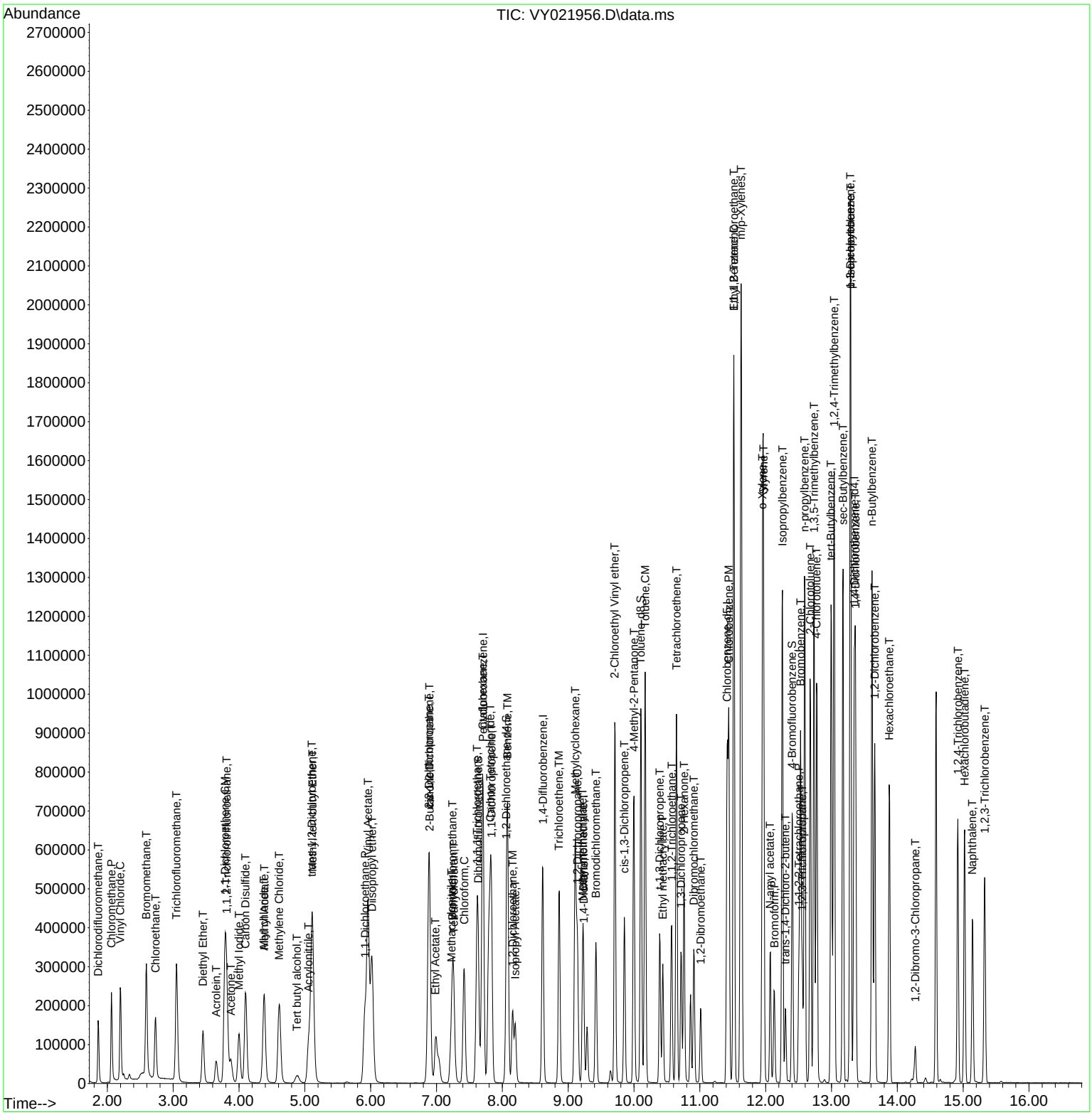
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

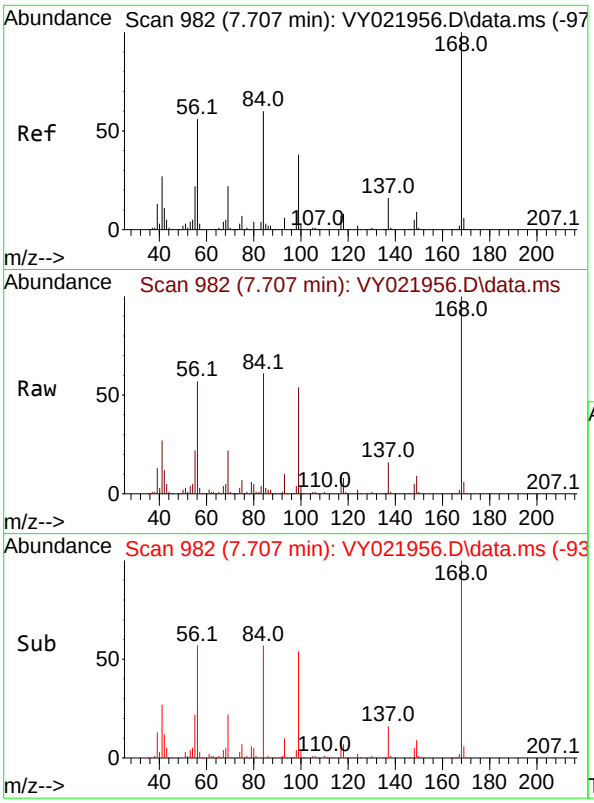
Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

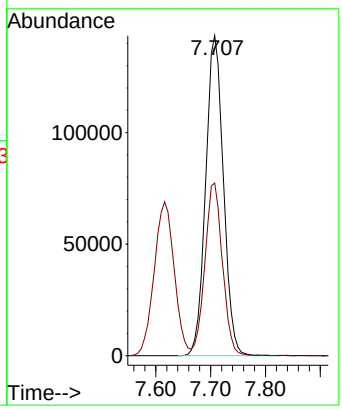




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:168 Resp: 32145

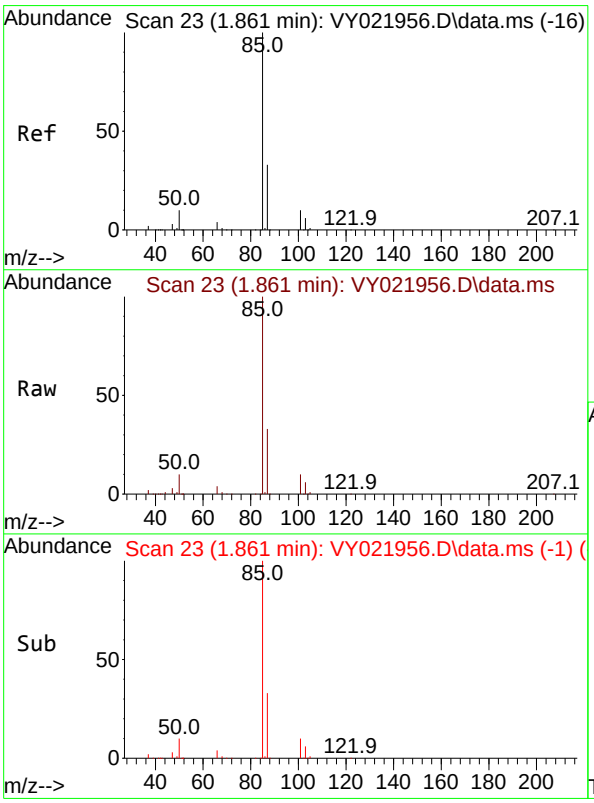
Ion	Ratio	Lower	Upper
168	100		
99	53.9	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

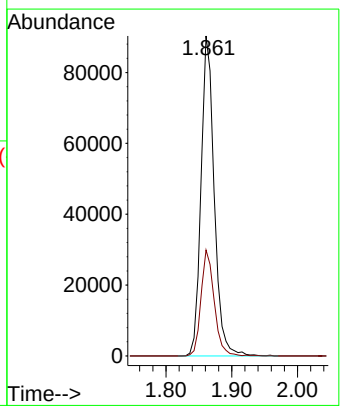
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

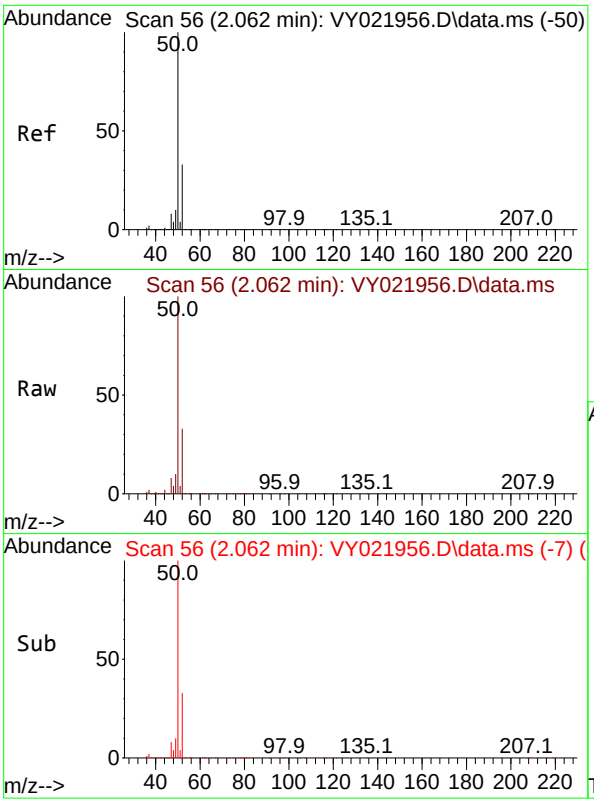


#2
Dichlorodifluoromethane
Concen: 46.089 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 85 Resp: 126242

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.6	49.7

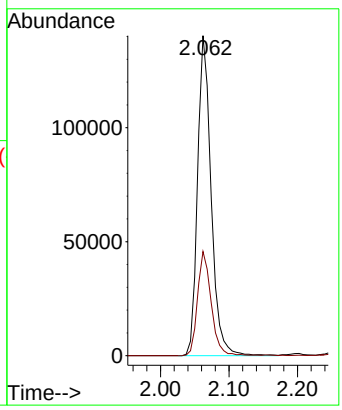




#3
Chloromethane
Concen: 49.653 ug/l
RT: 2.062 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 50 Resp: 19365

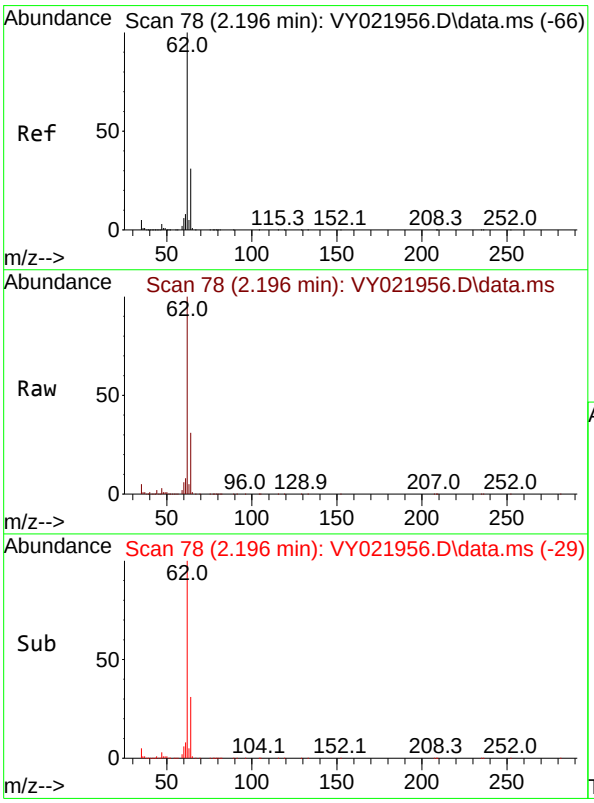
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

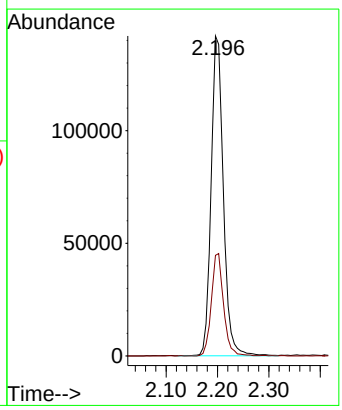
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

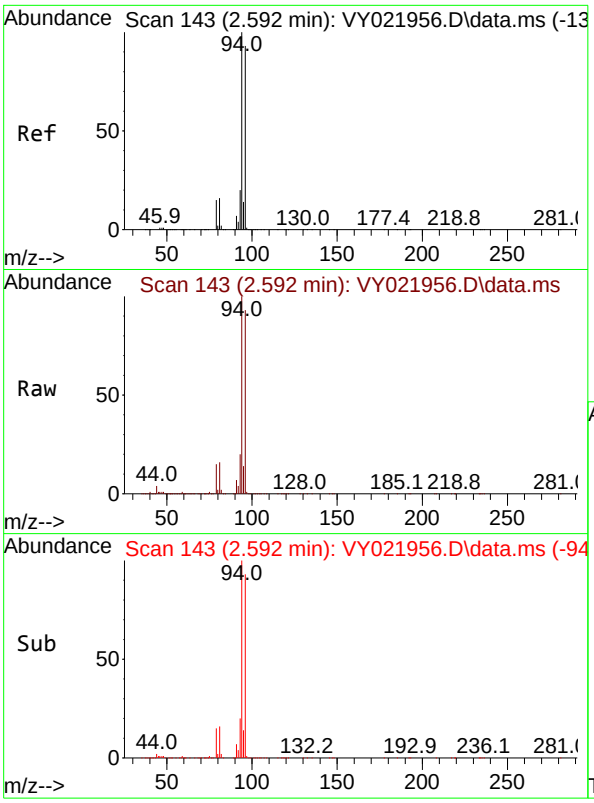


#4
Vinyl Chloride
Concen: 48.981 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 62 Resp: 234756

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.1	37.7

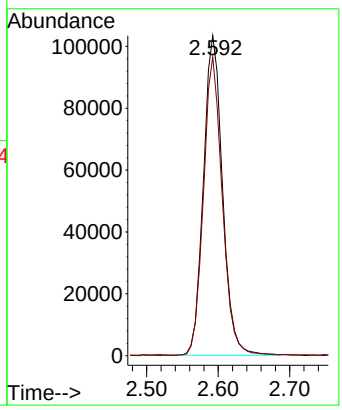




#5
Bromomethane
Concen: 46.385 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 94 Resp: 19153(

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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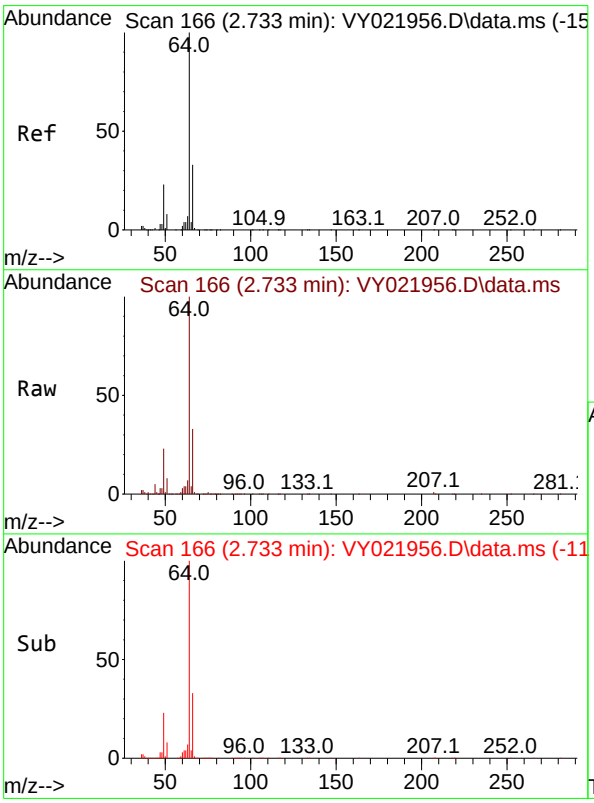
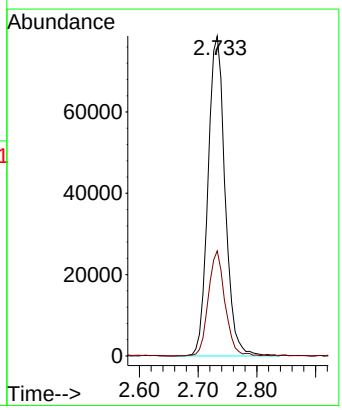
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

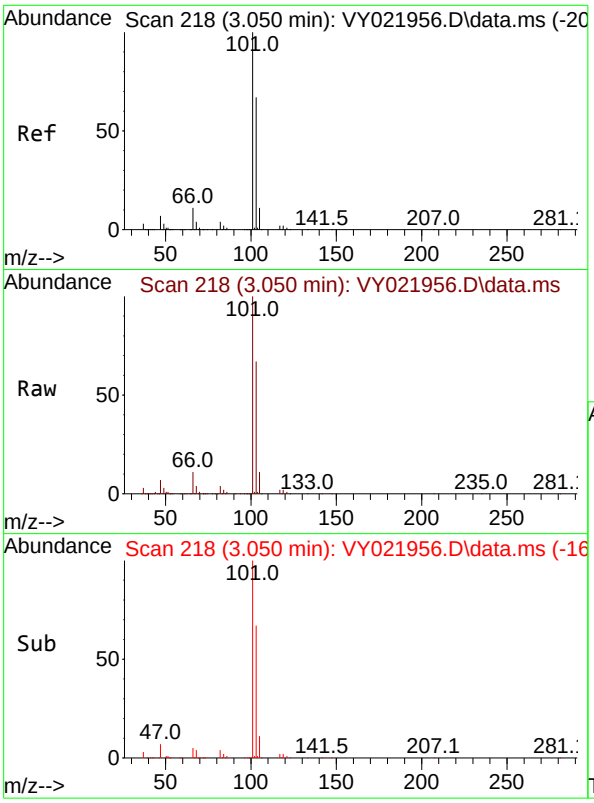


#6
Chloroethane
Concen: 48.677 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 64 Resp: 158887

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.2	39.4

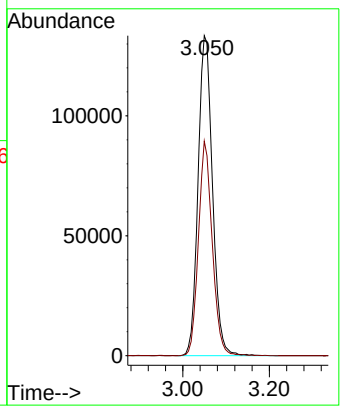




#7
Trichlorofluoromethane
Concen: 48.817 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:101 Resp: 30852

Ion	Ratio	Lower	Upper
101	100		
103	67.0	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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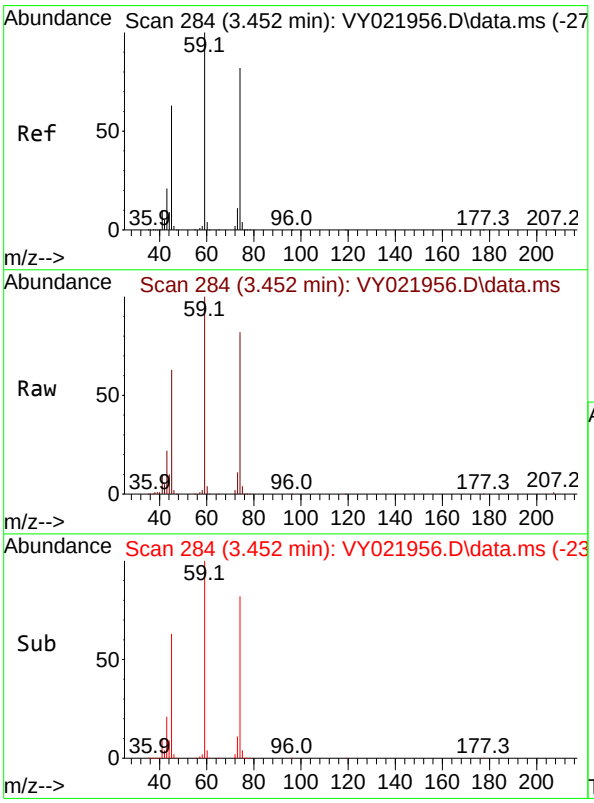
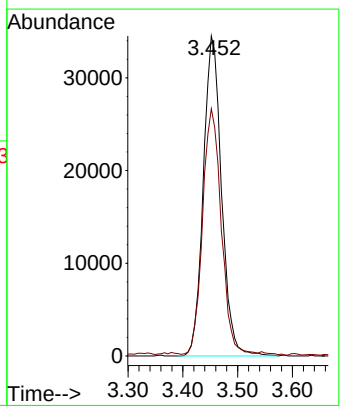
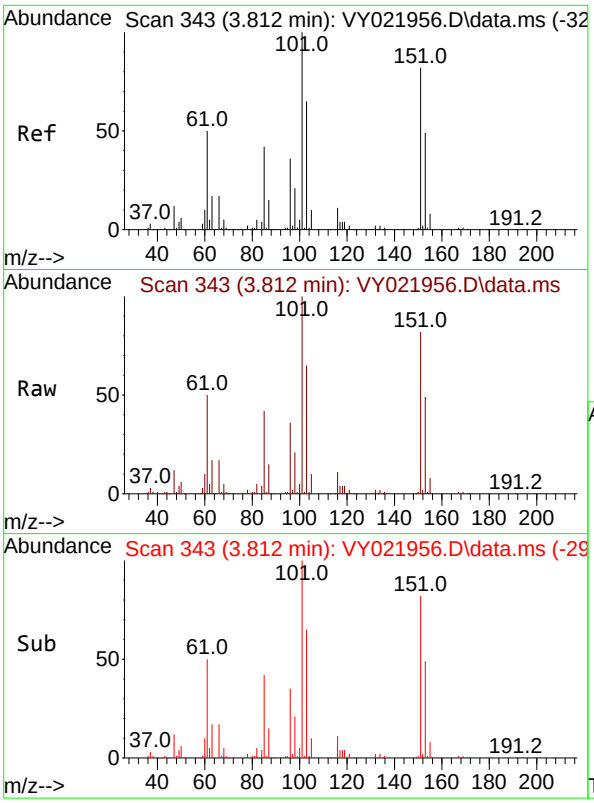


#8
Diethyl Ether
Concen: 48.337 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 74 Resp: 79512

Ion	Ratio	Lower	Upper
74	100		
45	78.3	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.881 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:101 Resp: 15729

Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	79.6	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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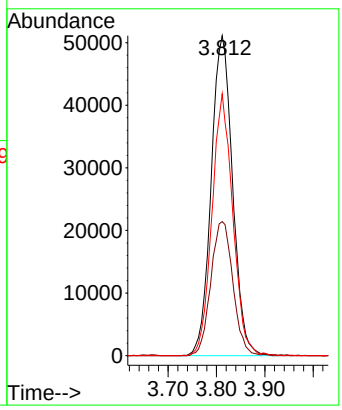
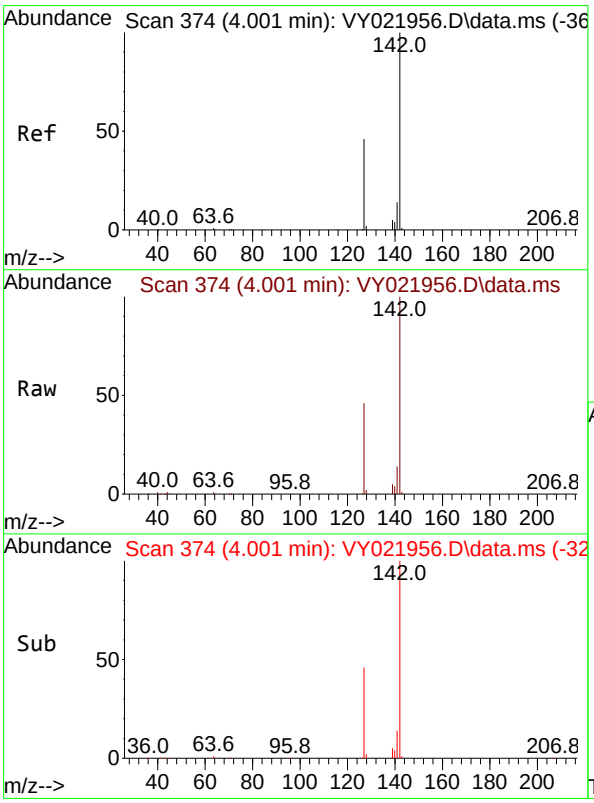
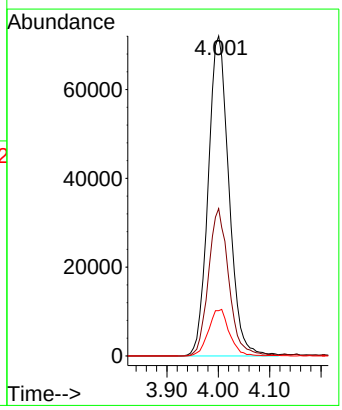


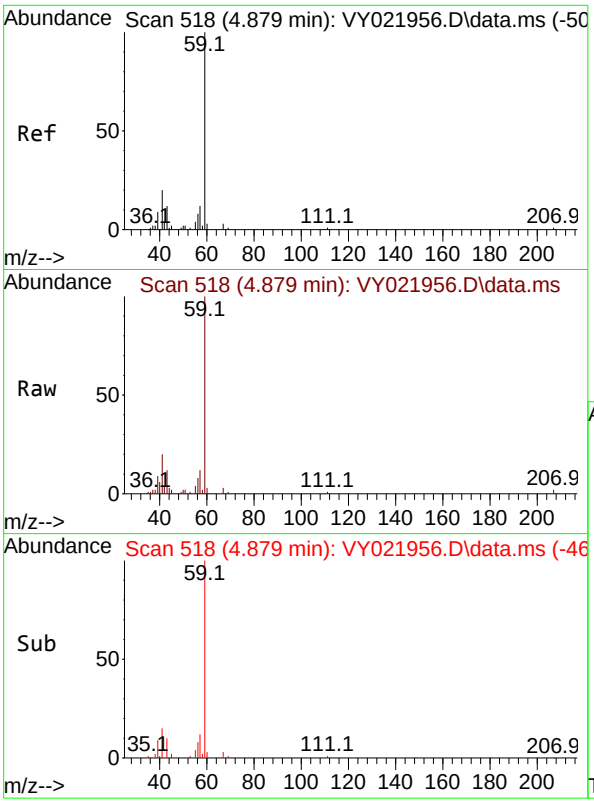


#10
Methyl Iodide
Concen: 50.959 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:142 Resp: 202276

Ion	Ratio	Lower	Upper
142	100		
127	45.2	36.2	54.2
141	14.6	11.7	17.5

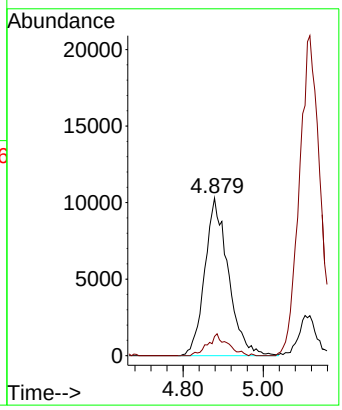




#11
Tert butyl alcohol
Concen: 257.462 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 59 Resp: 4196

Ion	Ratio	Lower	Upper
59	100		
57	11.6	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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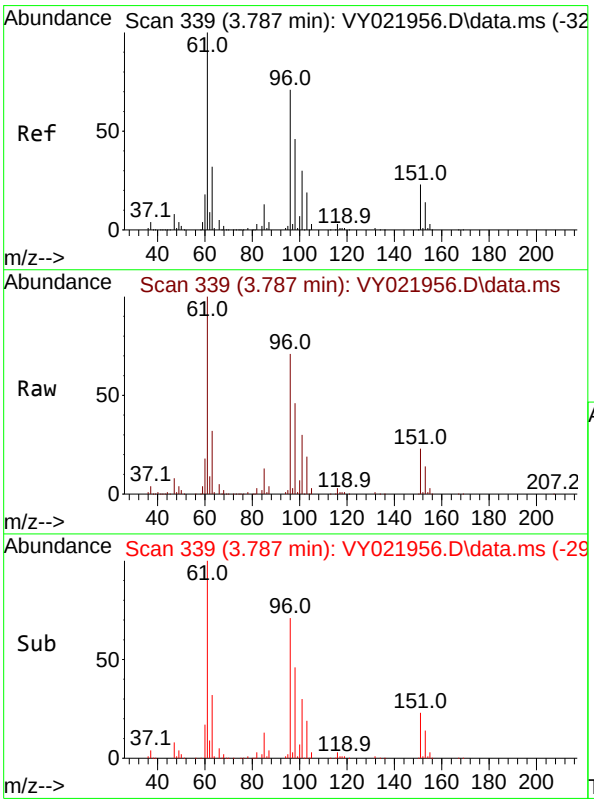
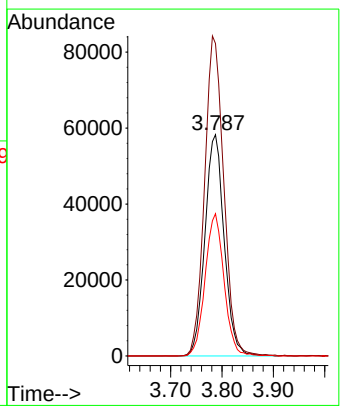
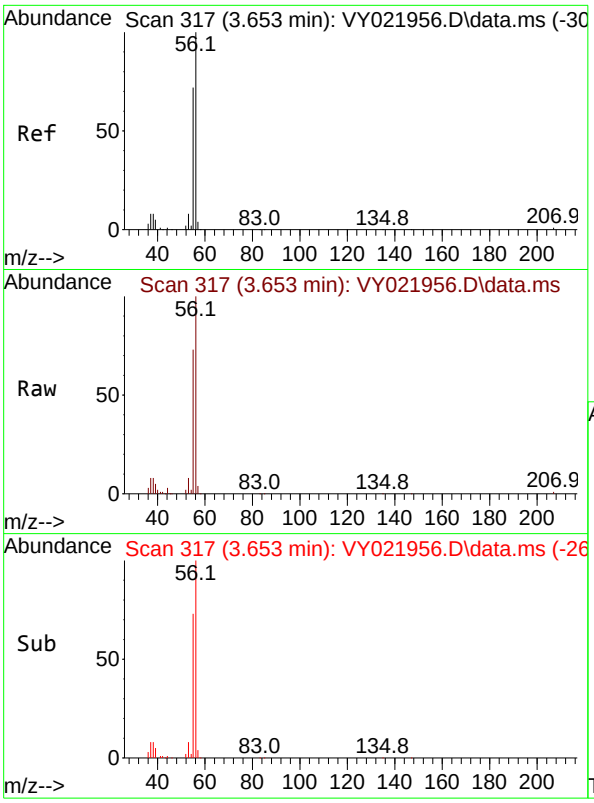


#12
1,1-Dichloroethene
Concen: 47.419 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 96 Resp: 151531

Ion	Ratio	Lower	Upper
96	100		
61	141.2	113.0	169.4
98	64.3	51.4	77.2

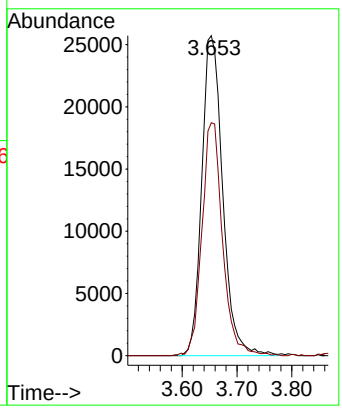




#13
Acrolein
Concen: 233.366 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 56 Resp: 6827

Ion	Ratio	Lower	Upper
56	100		
55	71.7	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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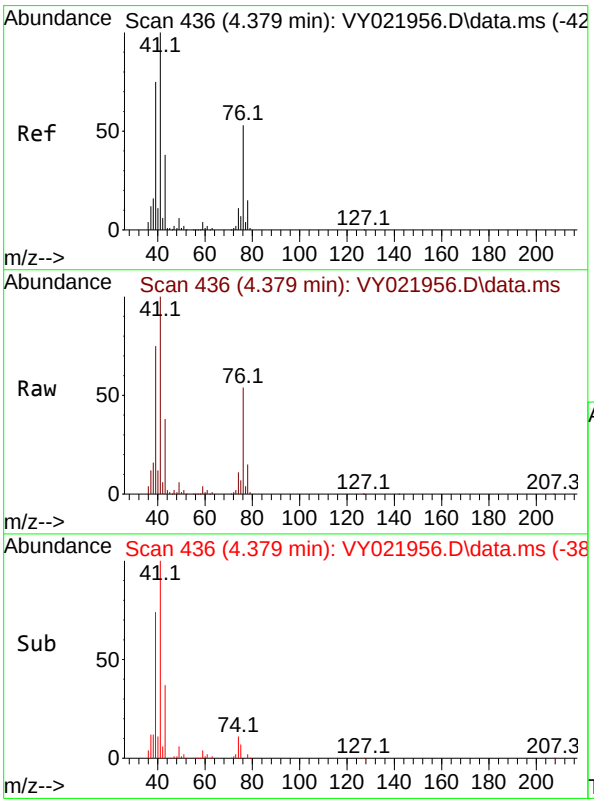
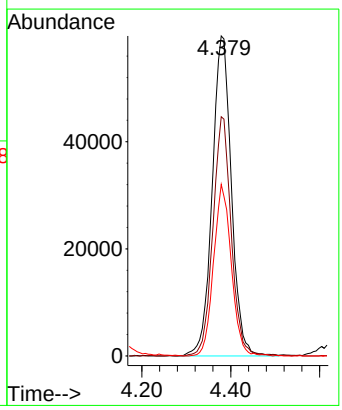
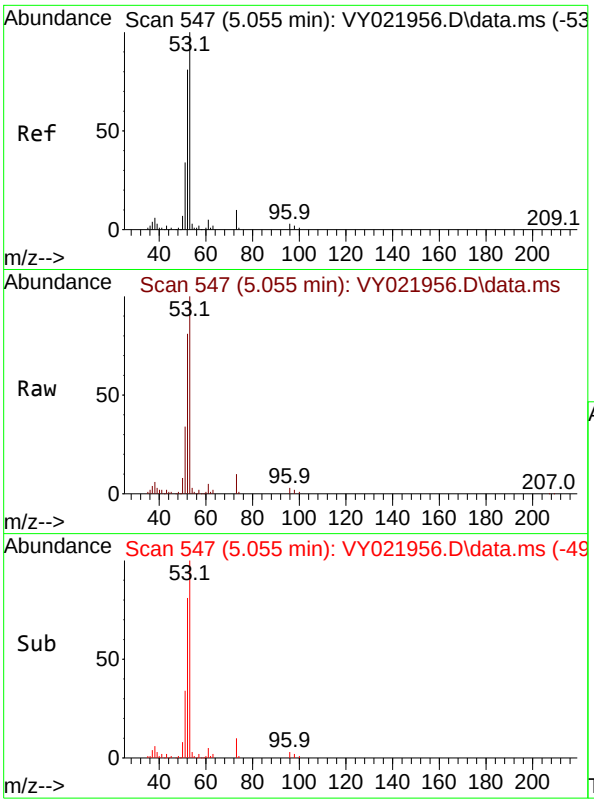


#14
Allyl chloride
Concen: 47.988 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 41 Resp: 178559

Ion	Ratio	Lower	Upper
41	100		
39	71.5	57.2	85.8
76	49.6	39.7	59.5

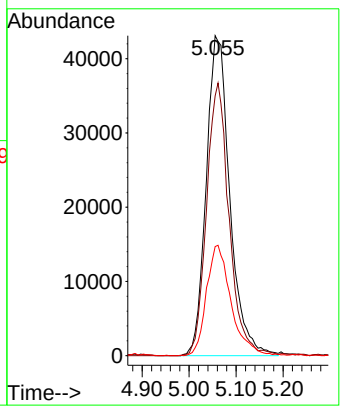




#15
Acrylonitrile
Concen: 249.387 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 53 Resp: 15018

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	36.1	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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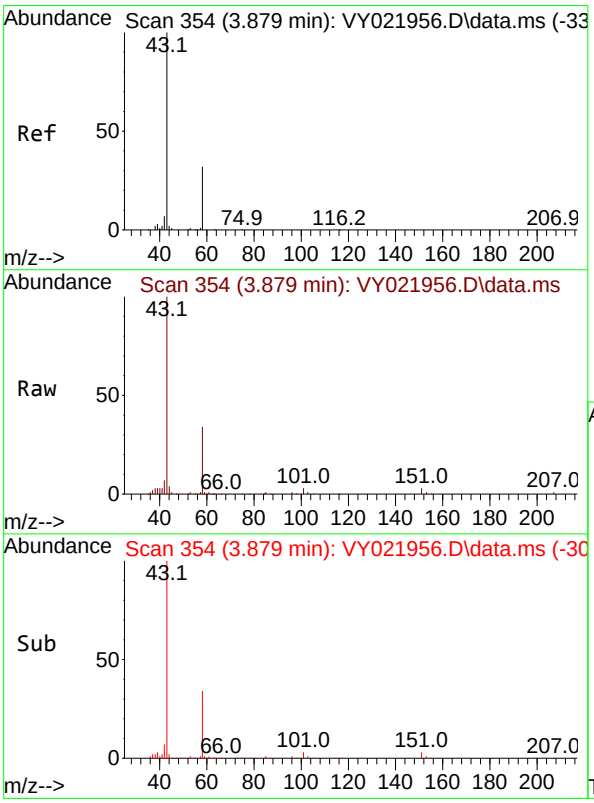
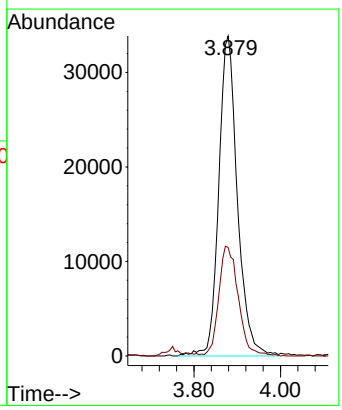
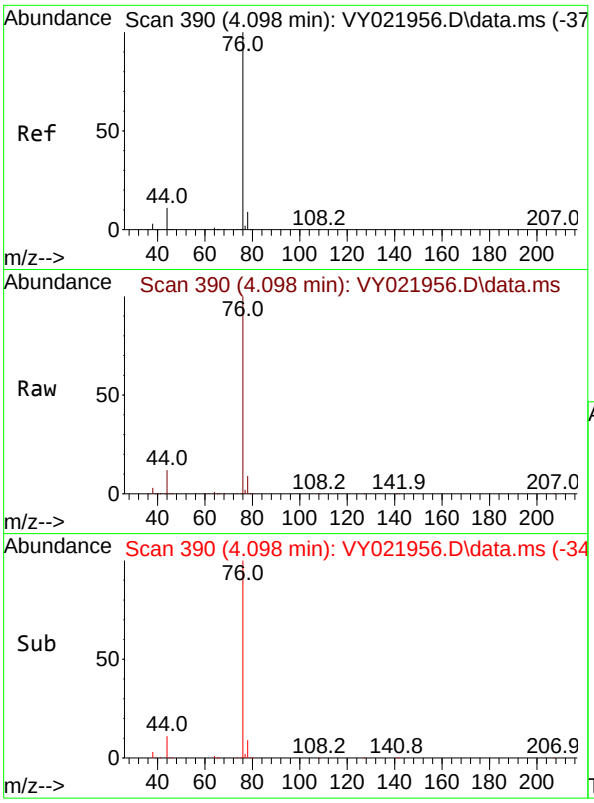


#16
Acetone
Concen: 261.973 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 101417

Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.0	40.4





#17
Carbon Disulfide
Concen: 47.094 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 76 Resp: 47984

Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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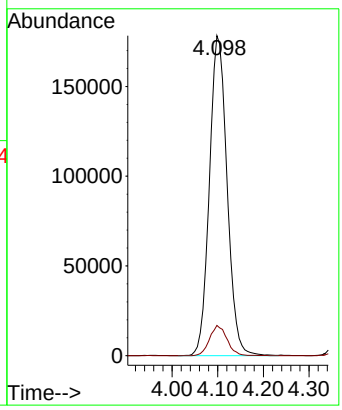
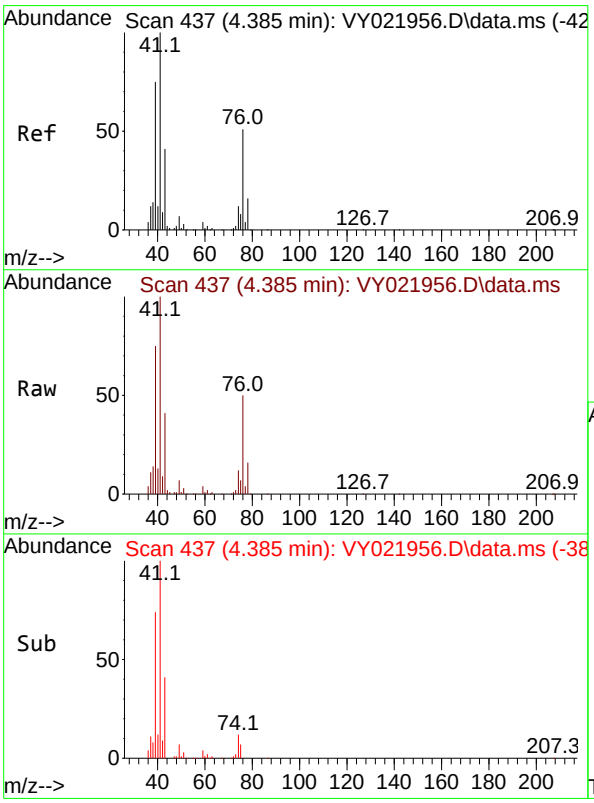
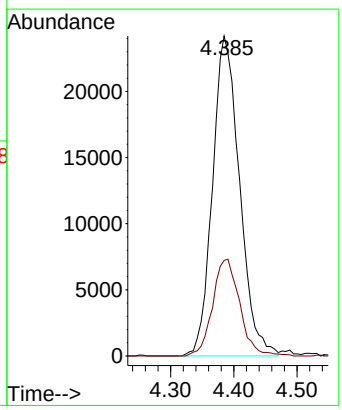


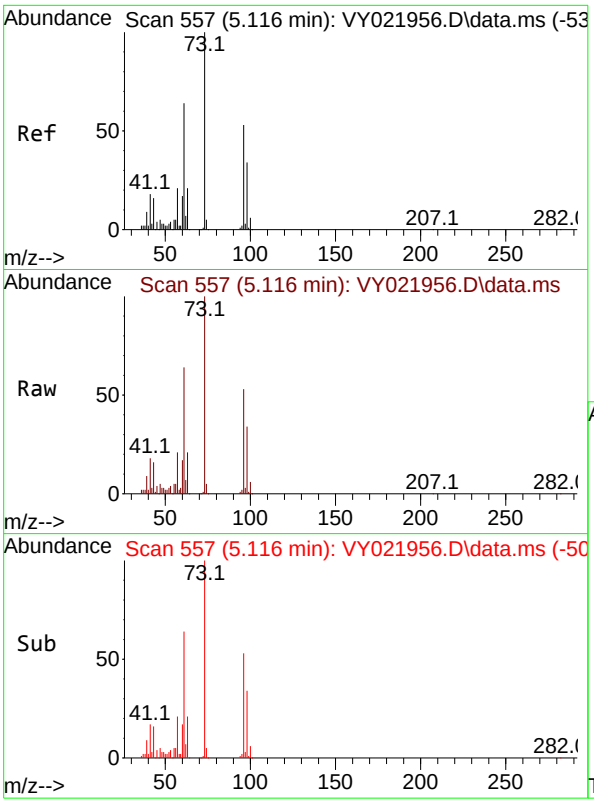


#18
Methyl Acetate
Concen: 51.735 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 71756

Ion	Ratio	Lower	Upper
43	100		
74	30.3	24.2	36.4

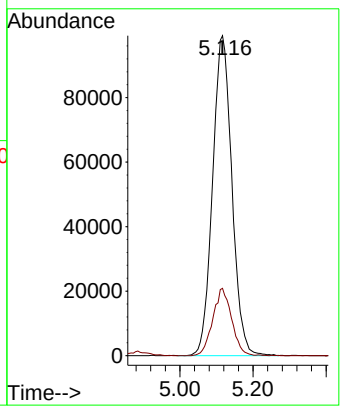




#19
Methyl tert-butyl Ether
Concen: 50.907 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 73 Resp: 36410

Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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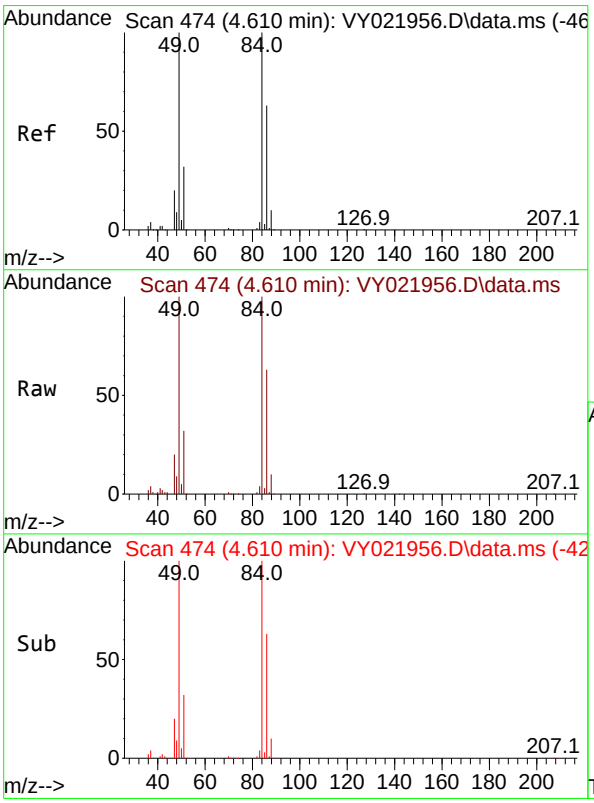
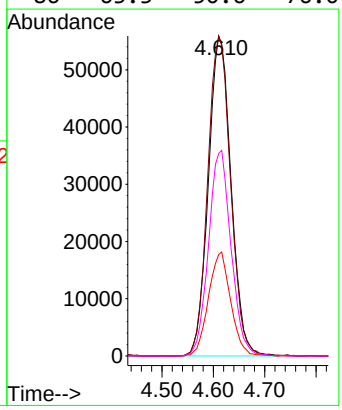
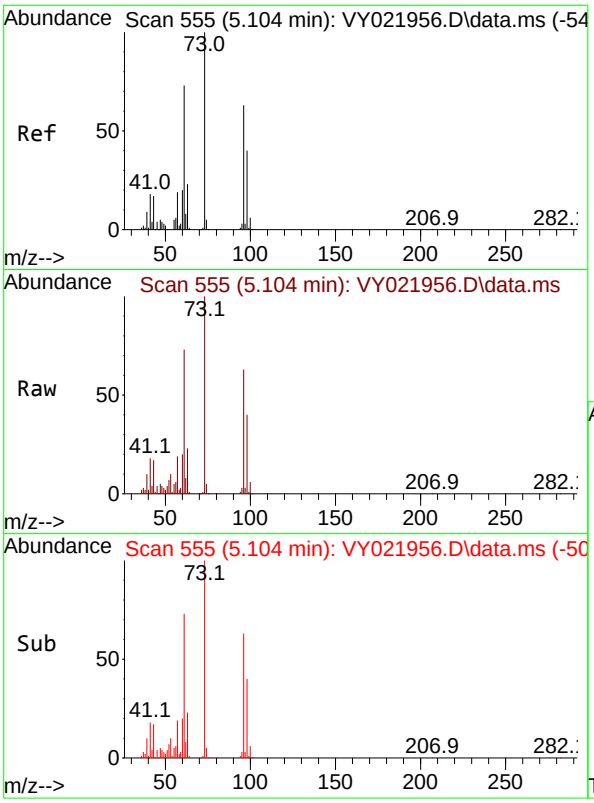


#20
Methylene Chloride
Concen: 45.671 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 84 Resp: 171472

Ion	Ratio	Lower	Upper
84	100		
49	99.9	79.9	119.9
51	31.7	25.4	38.0
86	63.3	50.6	76.0

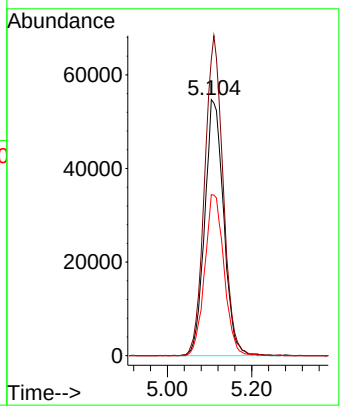




#21
trans-1,2-Dichloroethene
Concen: 47.796 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 96 Resp: 17105

Ion	Ratio	Lower	Upper
96	100		
61	115.7	92.6	138.8
98	62.8	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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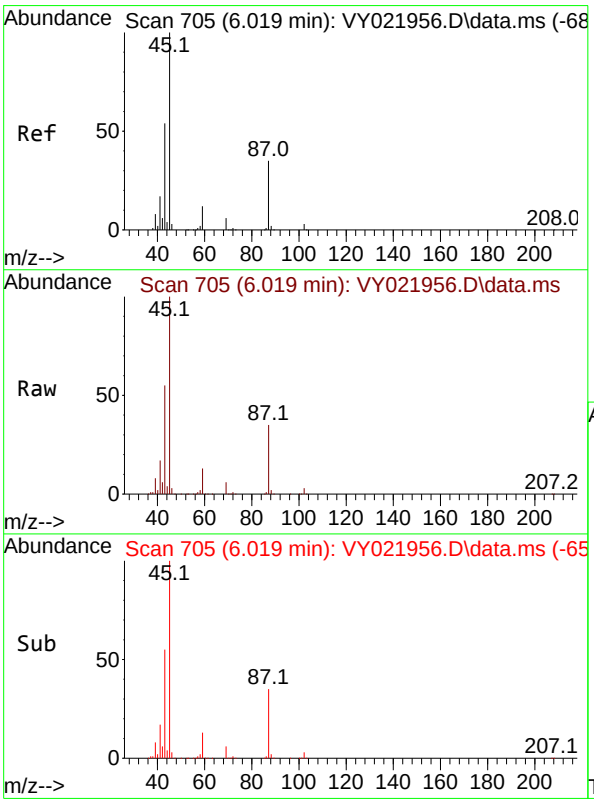
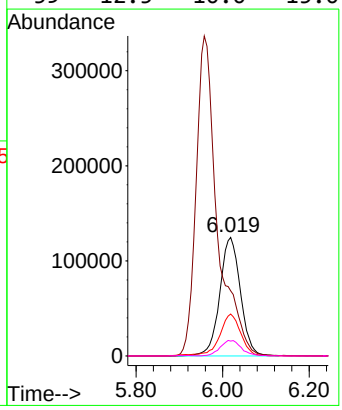
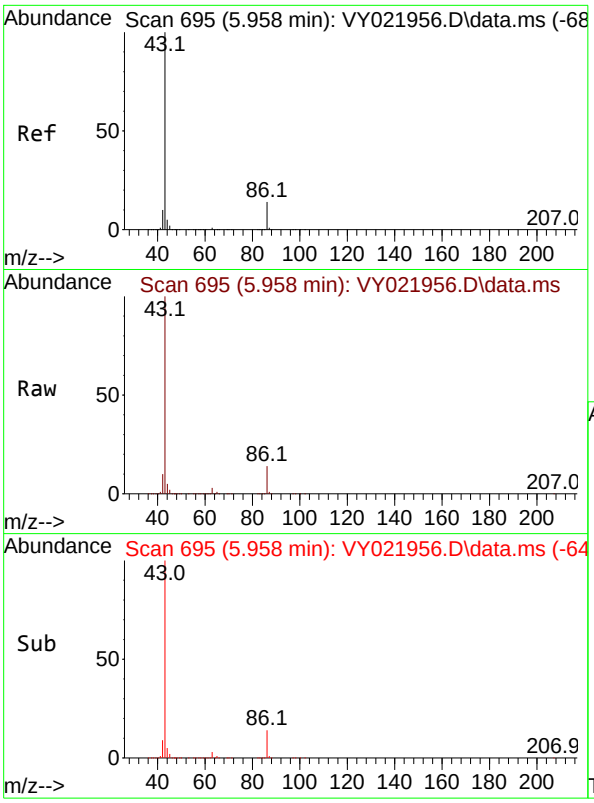


#22
Diisopropyl ether
Concen: 50.096 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 45 Resp: 414816

Ion	Ratio	Lower	Upper
45	100		
43	54.5	43.6	65.4
87	35.3	28.2	42.4
59	12.5	10.0	15.0

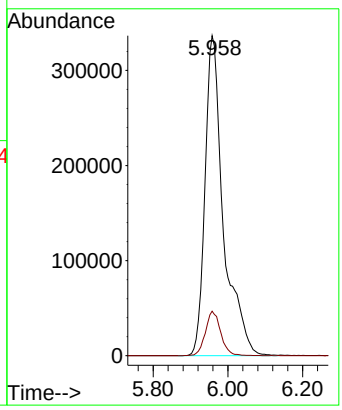




#23
Vinyl Acetate
Concen: 257.942 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 115110

Ion	Ratio	Lower	Upper
43	100		
86	13.9	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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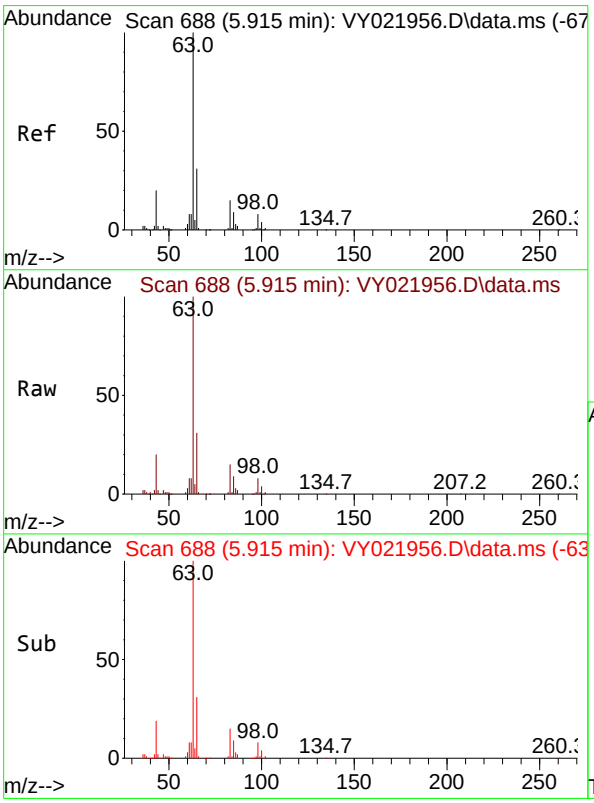
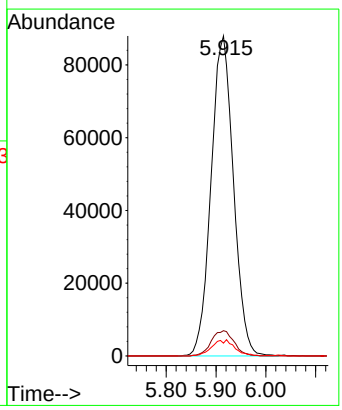
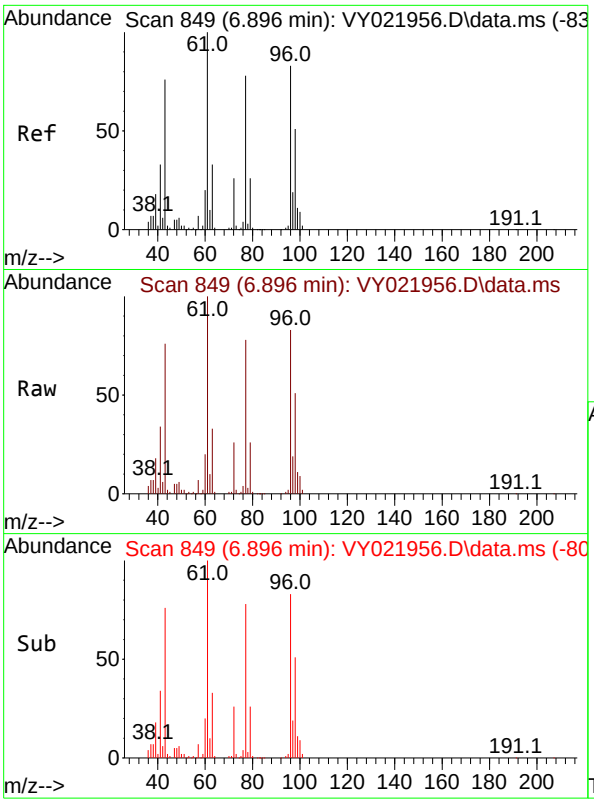


#24
1,1-Dichloroethane
Concen: 47.762 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 63 Resp: 274136

Ion	Ratio	Lower	Upper
63	100		
98	7.9	4.0	11.9
100	4.0	2.0	6.0





#25
2-Butanone
Concen: 250.772 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 16972

Ion	Ratio	Lower	Upper
43	100		
72	33.7	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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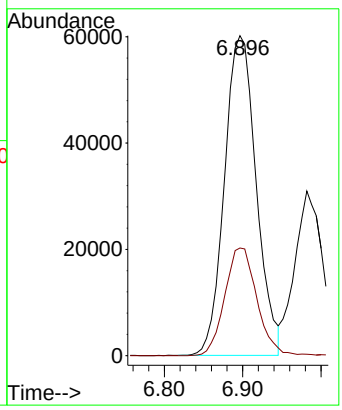
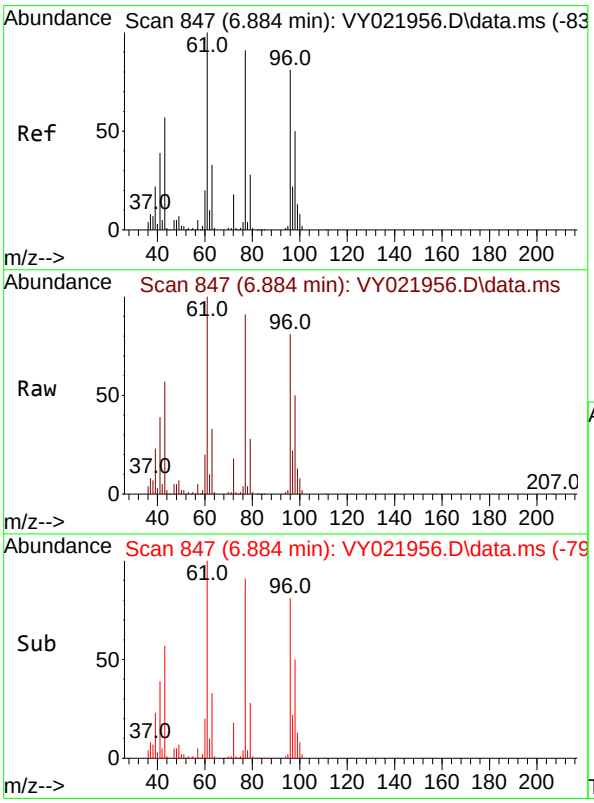
Supervised By :Mahesh Dadoda 04/23/2025

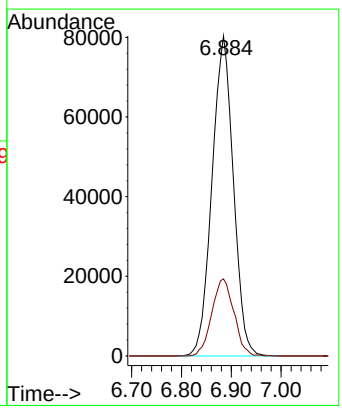


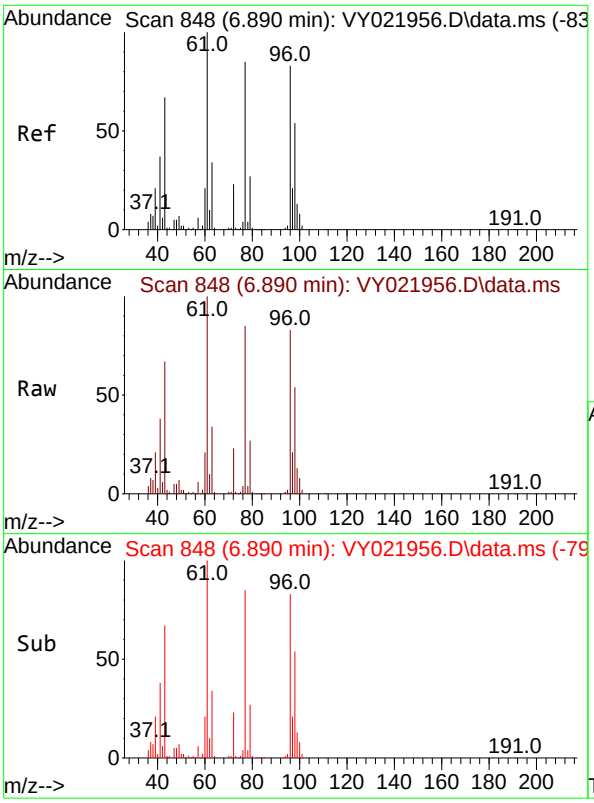


#26
2,2-Dichloropropane
Concen: 47.472 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 77 Resp: 238816

Ion	Ratio	Lower	Upper
77	100		
97	24.9	12.4	37.4





#27
cis-1,2-Dichloroethene
Concen: 49.157 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 96 Resp: 19671

Ion	Ratio	Lower	Upper
96	100		
61	125.7	0.0	251.4
98	64.2	0.0	128.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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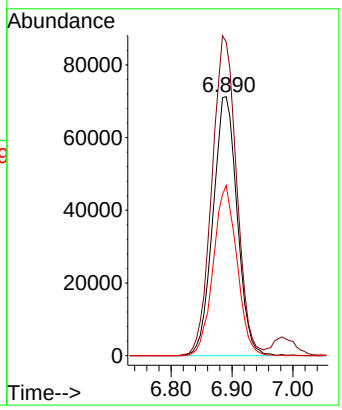
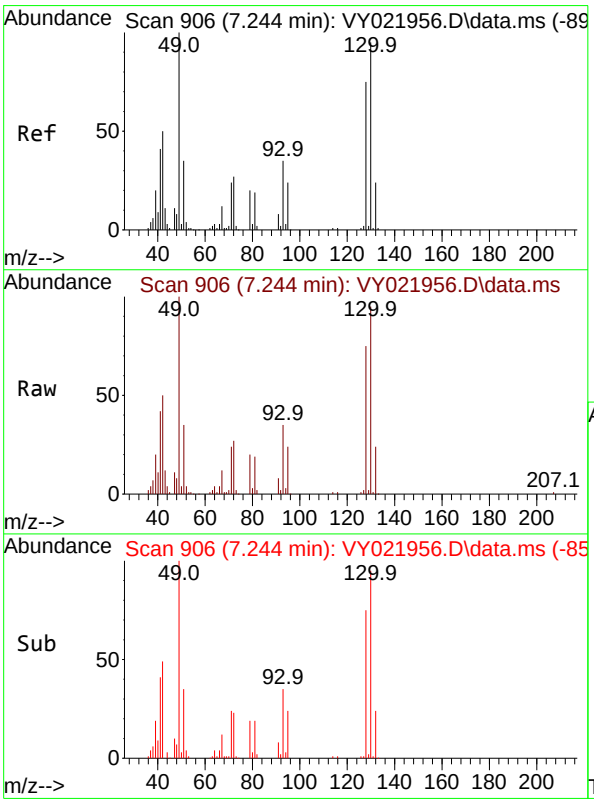
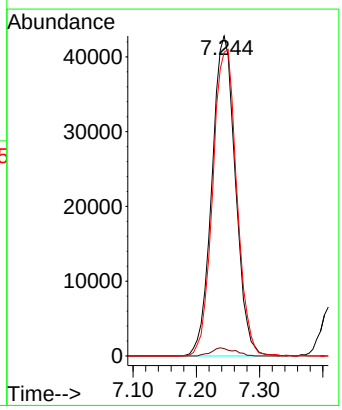


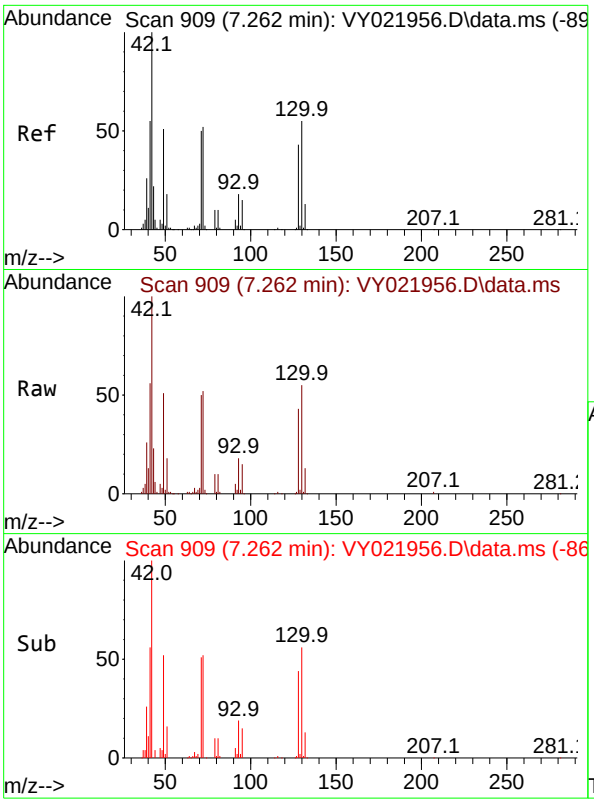


#28
Bromochloromethane
Concen: 49.520 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 49 Resp: 110399

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	5.0
130	97.8	78.2	117.4

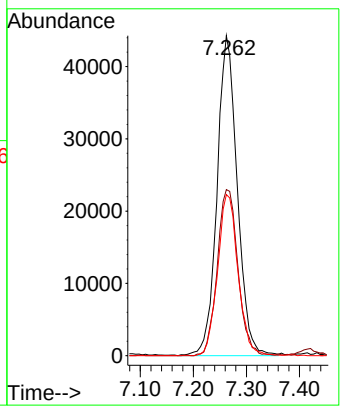




#29
Tetrahydrofuran
Concen: 266.870 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 42 Resp: 11731

Ion	Ratio	Lower	Upper
42	100		
72	53.2	42.6	63.8
71	50.8	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
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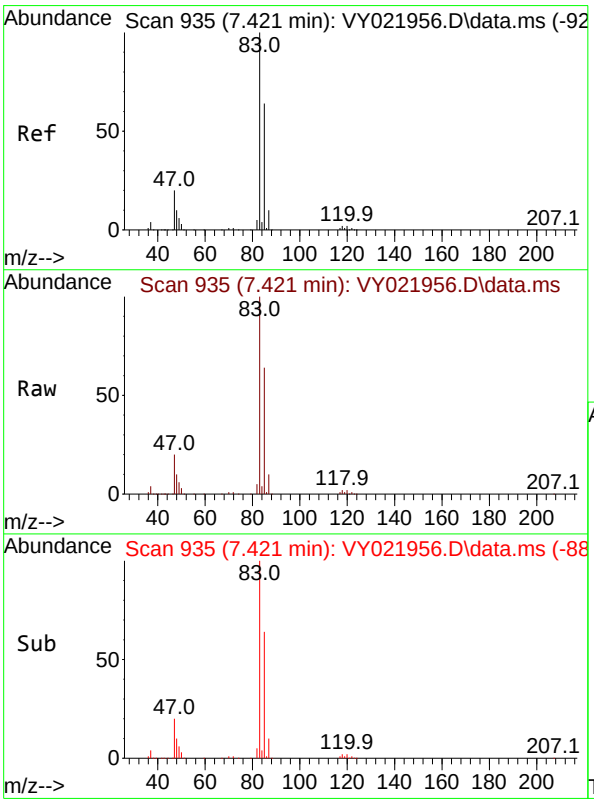
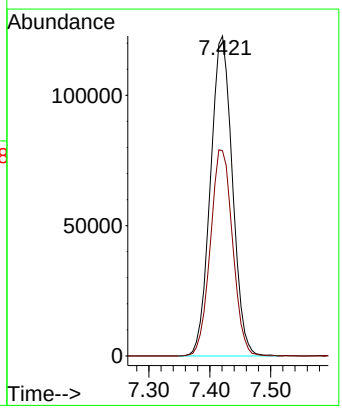
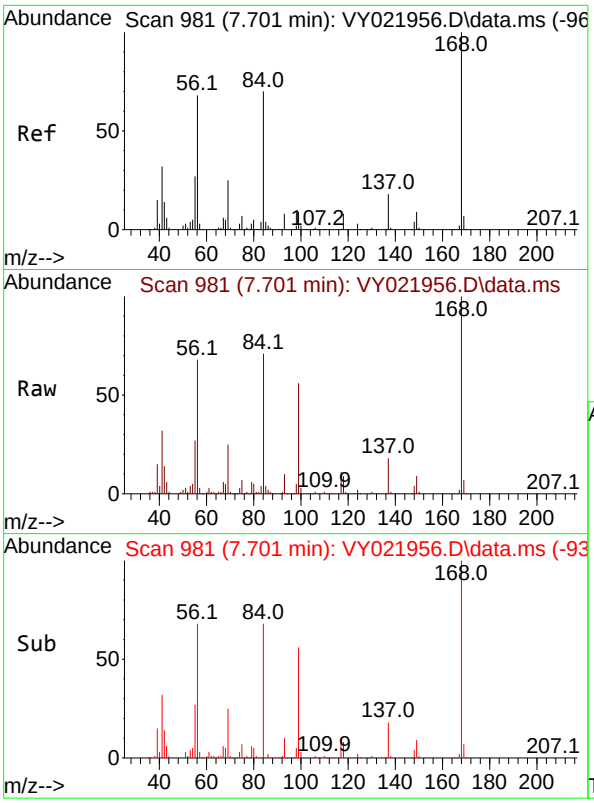


#30
Chloroform
Concen: 48.259 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 83 Resp: 307243

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.3	76.9

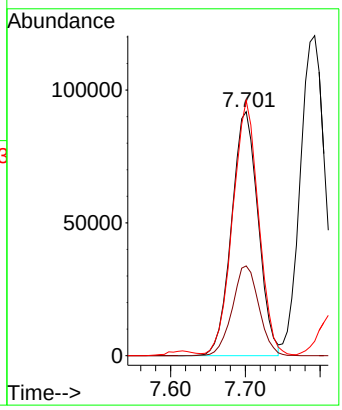




#31
Cyclohexane
Concen: 46.398 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 56 Resp: 22773

Ion	Ratio	Lower	Upper
56	100		
69	36.8	29.4	44.2
84	102.8	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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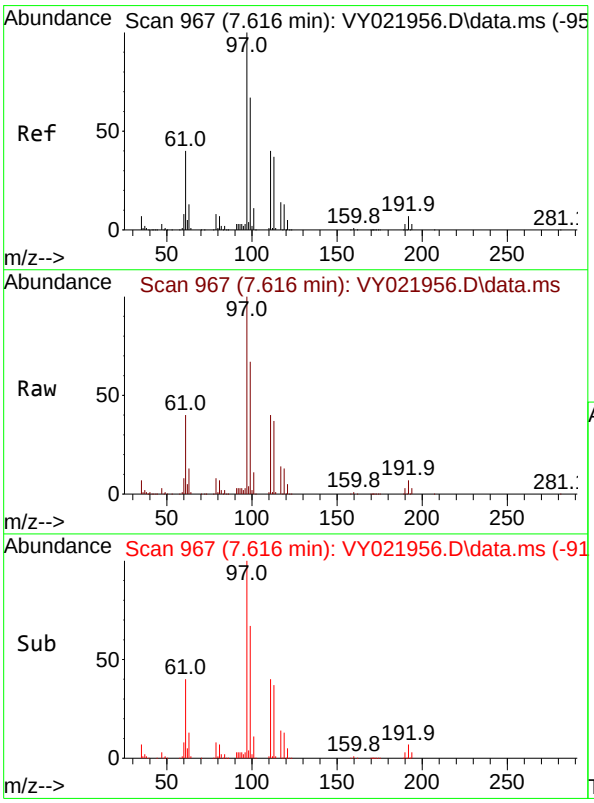
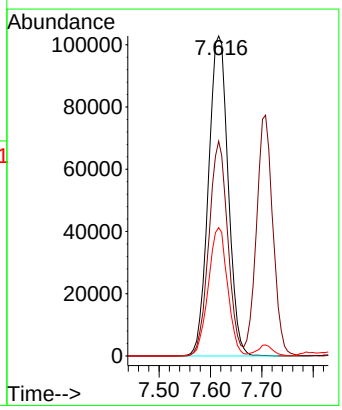
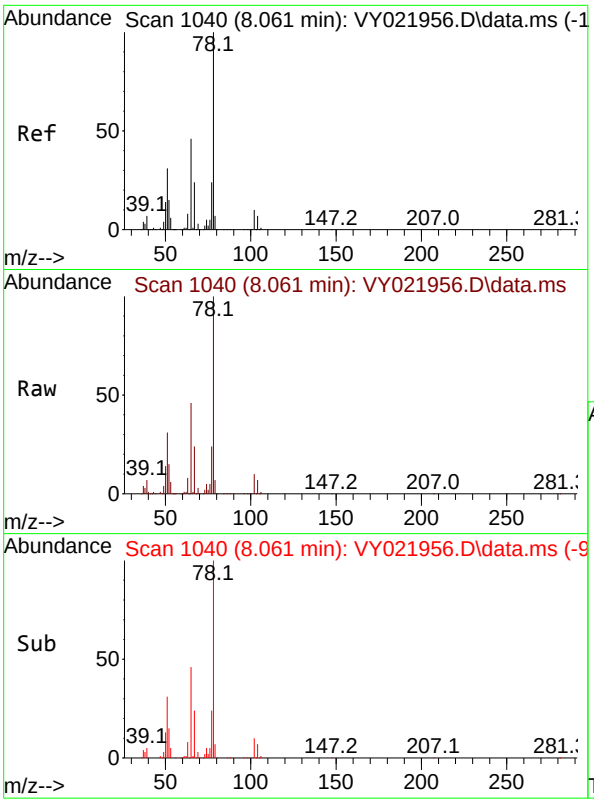


#32
1,1,1-Trichloroethane
Concen: 47.581 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 97 Resp: 274062

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	39.3	31.4	47.2

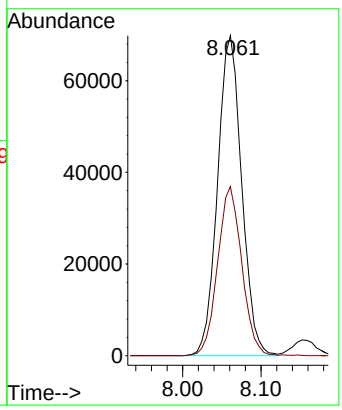




#33
1,2-Dichloroethane-d4
Concen: 50.416 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 65 Resp: 14969

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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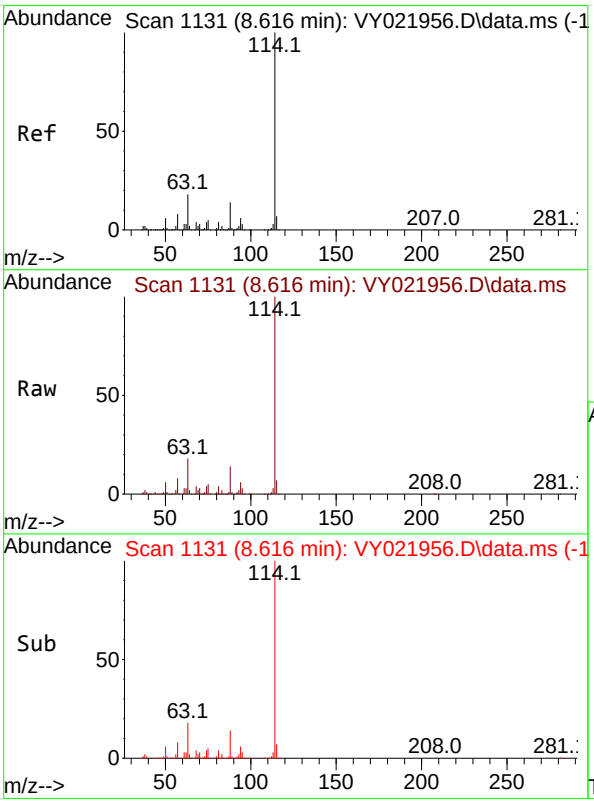
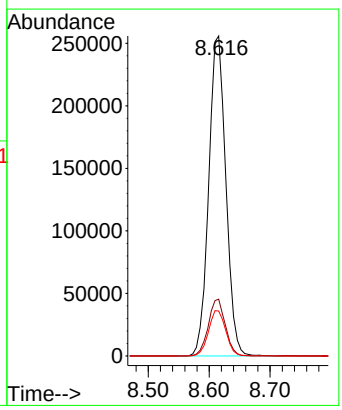
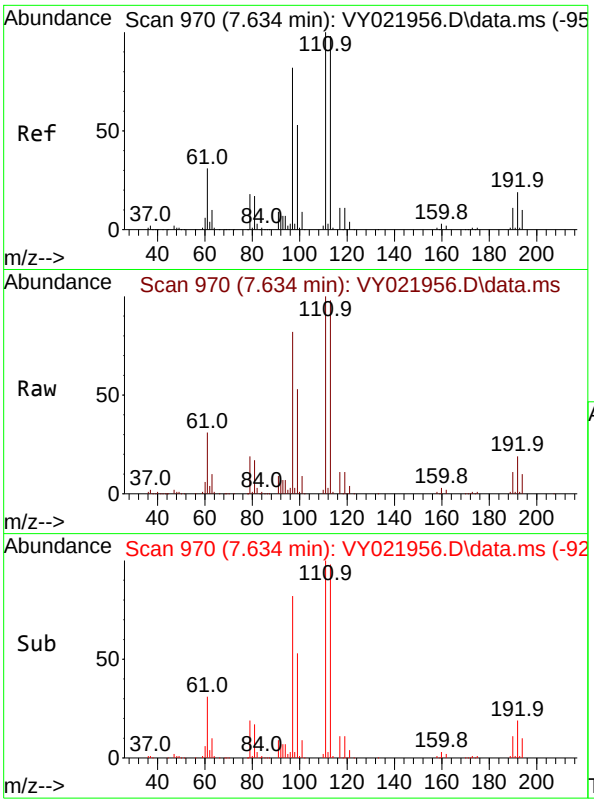


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:114 Resp: 499724

Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	35.4
88	14.1	0.0	28.2

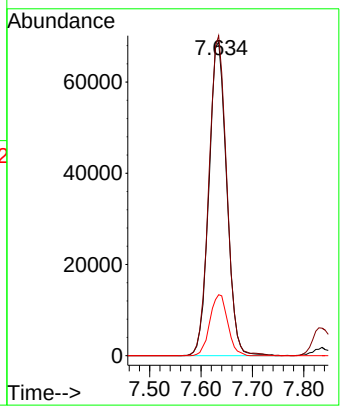




#35
Dibromofluoromethane
Concen: 49.938 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:113 Resp: 16486

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	19.5	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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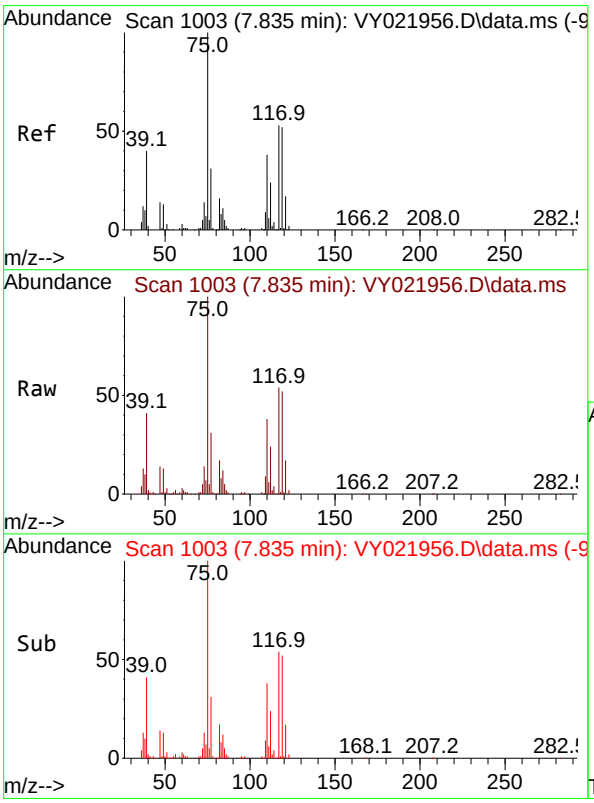
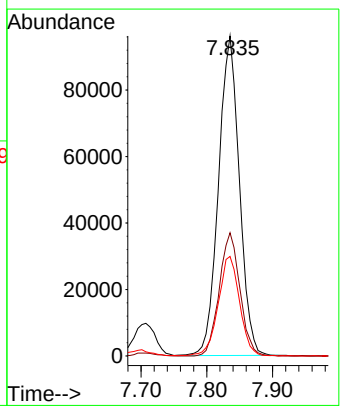
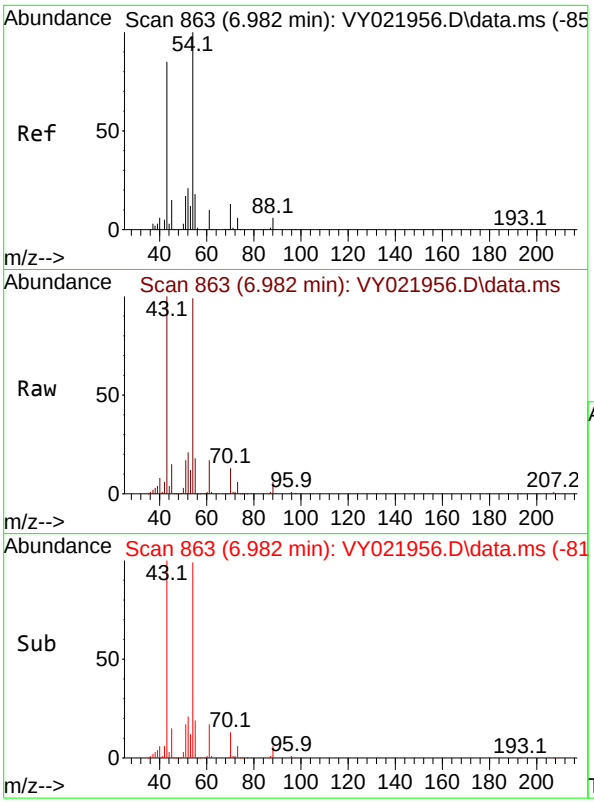


#36
1,1-Dichloropropene
Concen: 47.923 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 75 Resp: 212523

Ion	Ratio	Lower	Upper
75	100		
110	38.2	19.1	57.3
77	31.9	25.5	38.3





#37
Ethyl Acetate
Concen: 51.312 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 8062

Ion	Ratio	Lower	Upper
43	100		
61	17.2	13.8	20.6
70	11.5	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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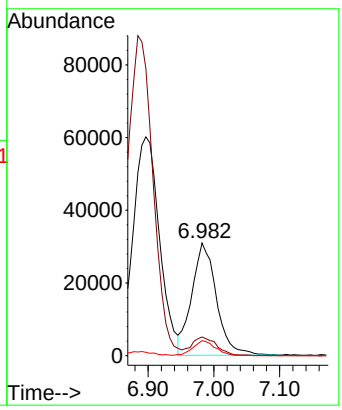
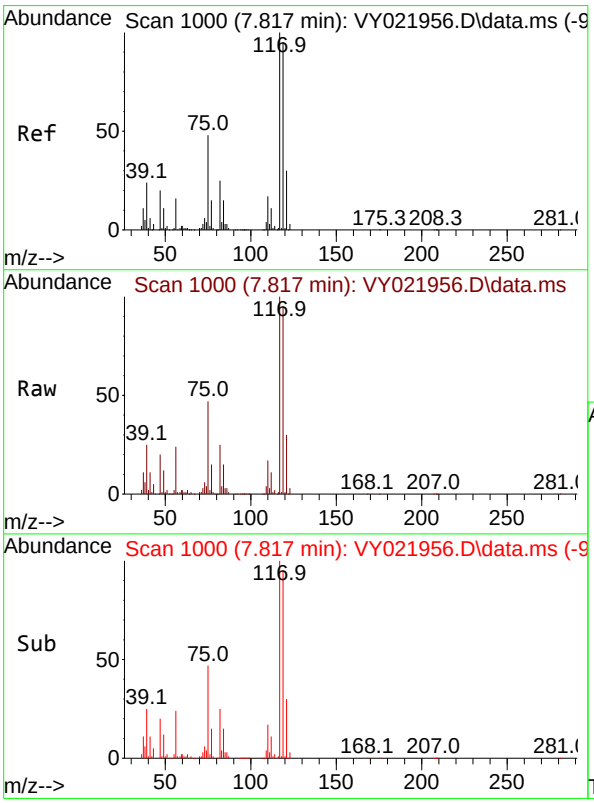
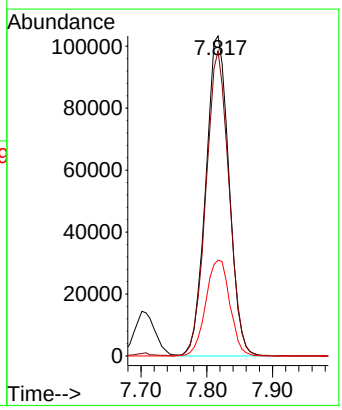


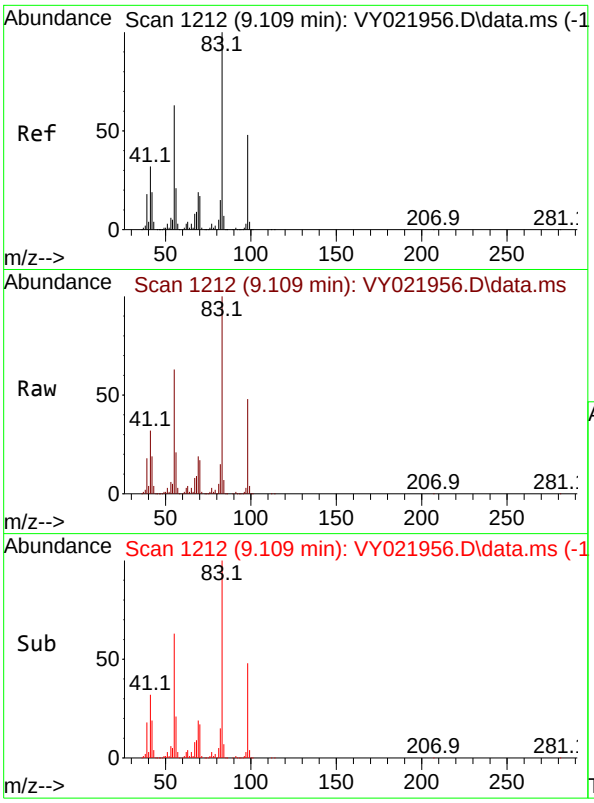


#38
Carbon Tetrachloride
Concen: 47.838 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:117 Resp: 253502

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.2	114.4
121	30.0	24.0	36.0

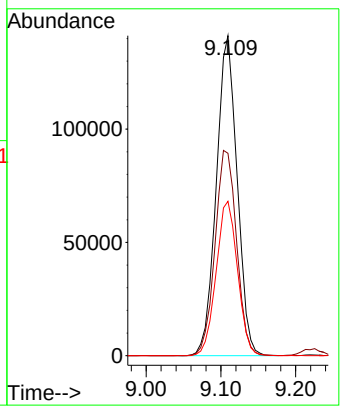




#39
Methylcyclohexane
Concen: 49.170 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 83 Resp: 27440

Ion	Ratio	Lower	Upper
83	100		
55	63.2	50.6	75.8
98	48.3	38.6	58.0



Instrument :
MSVOA_Y
ClientSampleId :
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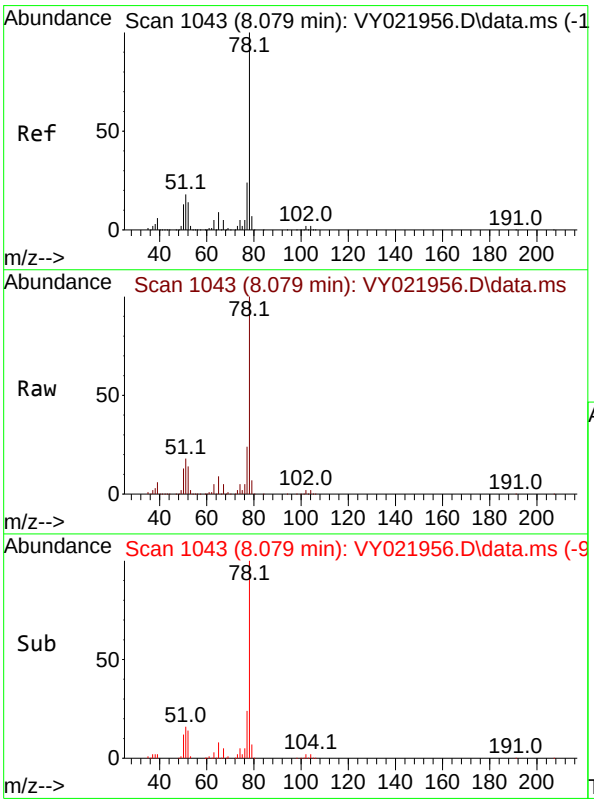
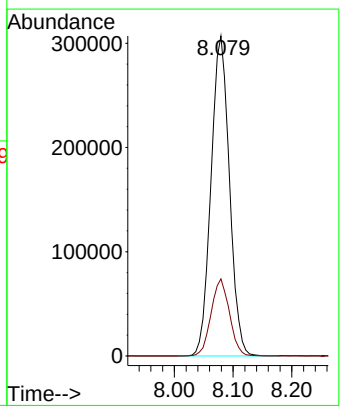
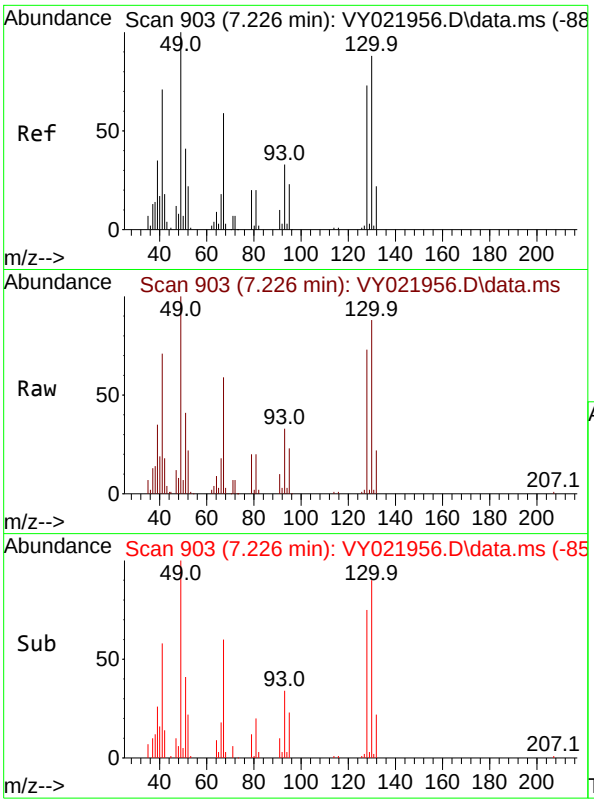


#40
Benzene
Concen: 48.179 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 78 Resp: 667899

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9

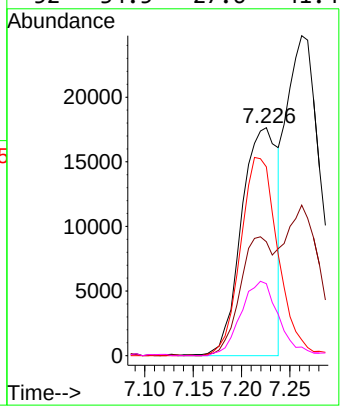




#41
Methacrylonitrile
Concen: 52.696 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 41 Resp: 4589

Ion	Ratio	Lower	Upper
41	100		
39	45.8	36.6	55.0
67	90.3	72.2	108.4
52	34.5	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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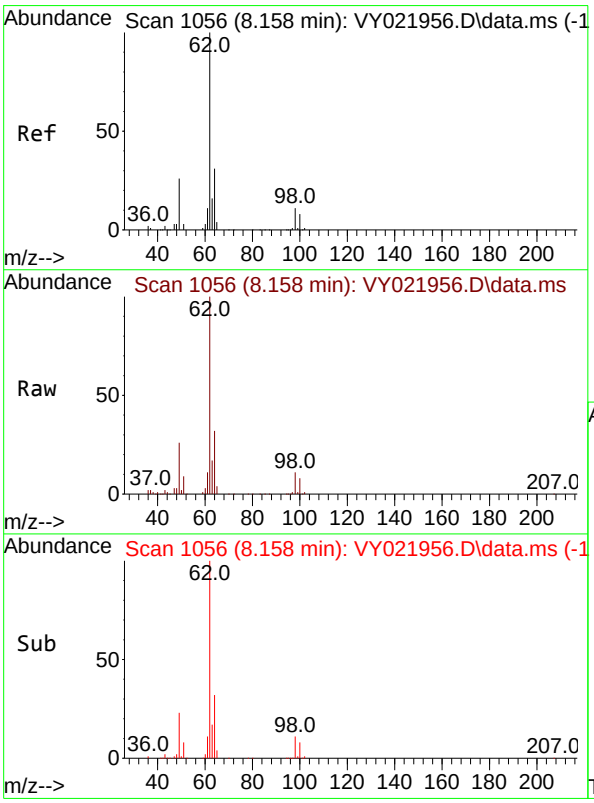
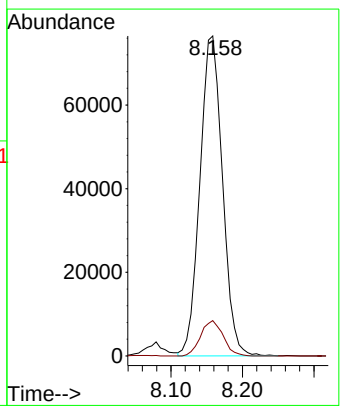
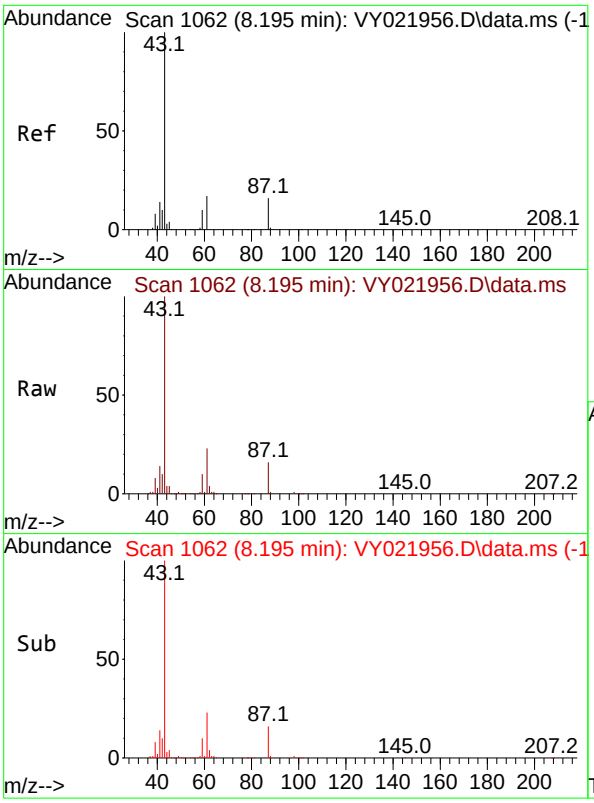


#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 62 Resp: 167612

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	22.0

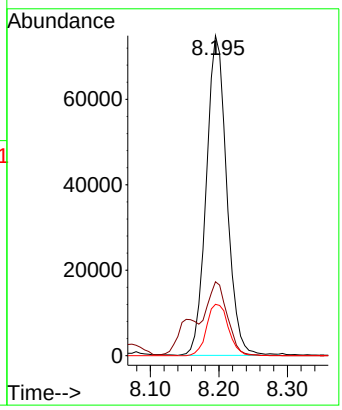




#43
Isopropyl Acetate
Concen: 50.948 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 15583

Ion	Ratio	Lower	Upper
43	100		
61	23.6	18.9	28.3
87	17.1	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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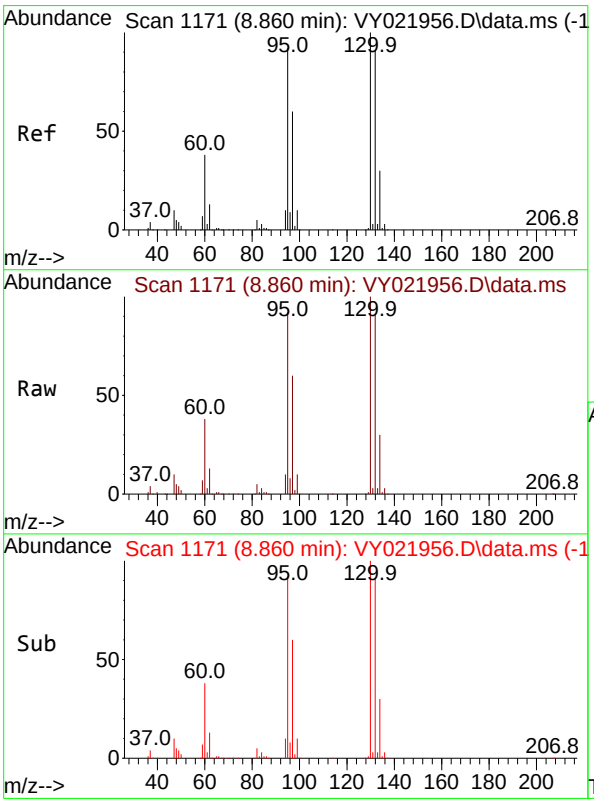
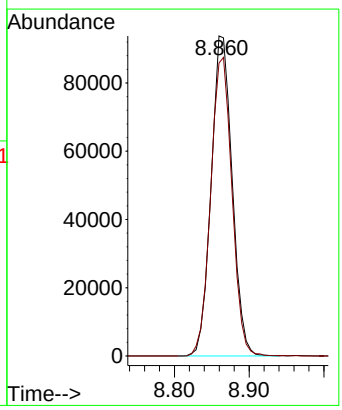
Supervised By :Mahesh Dadoda 04/23/2025

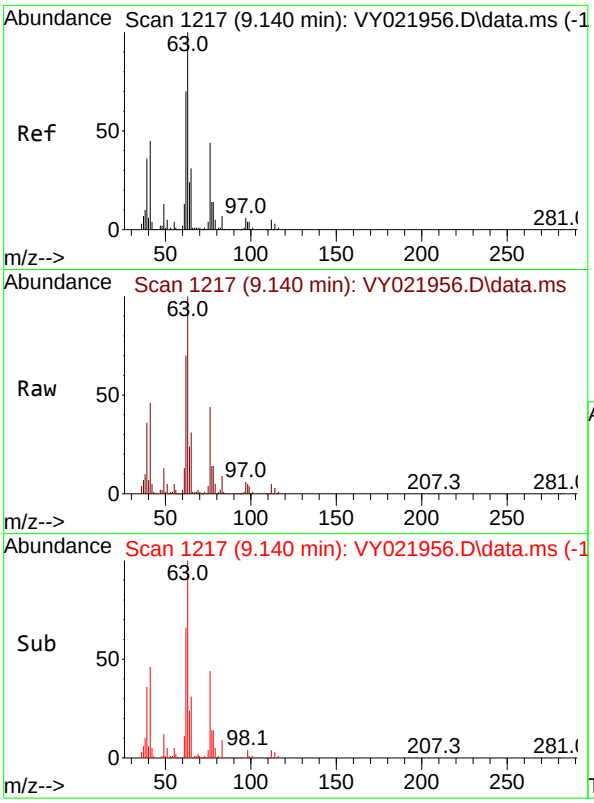


#44
Trichloroethene
Concen: 47.744 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:130 Resp: 183327

Ion	Ratio	Lower	Upper
130	100		
95	91.6	0.0	183.2

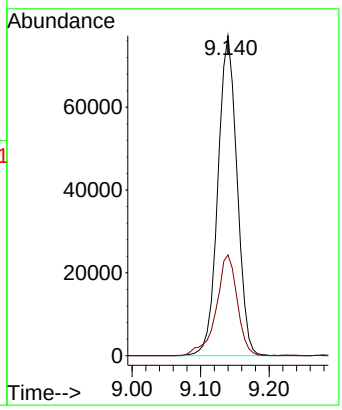




#45
1,2-Dichloropropane
Concen: 48.827 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 63 Resp: 14968

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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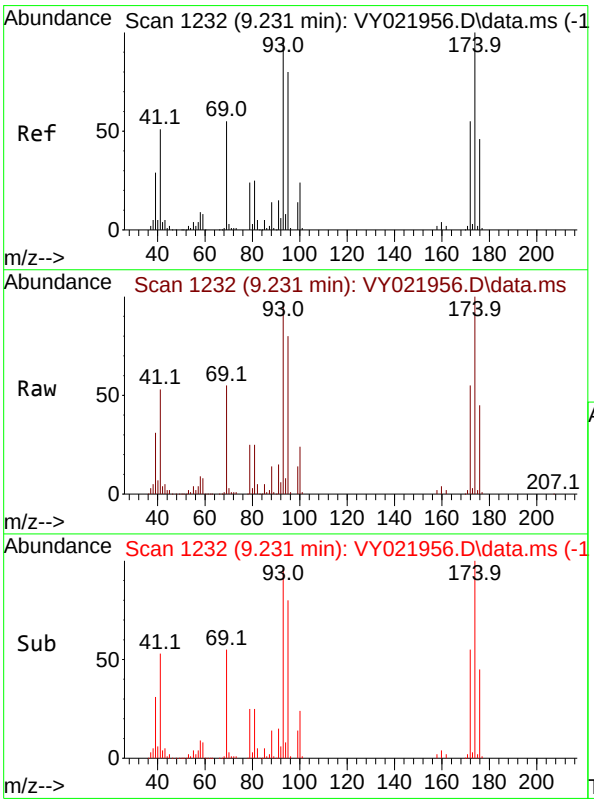
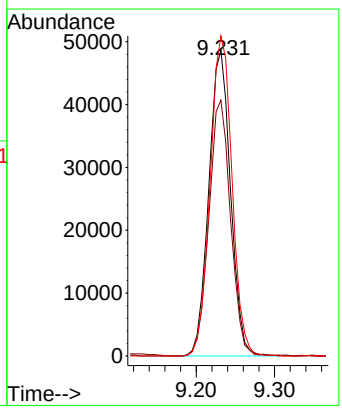
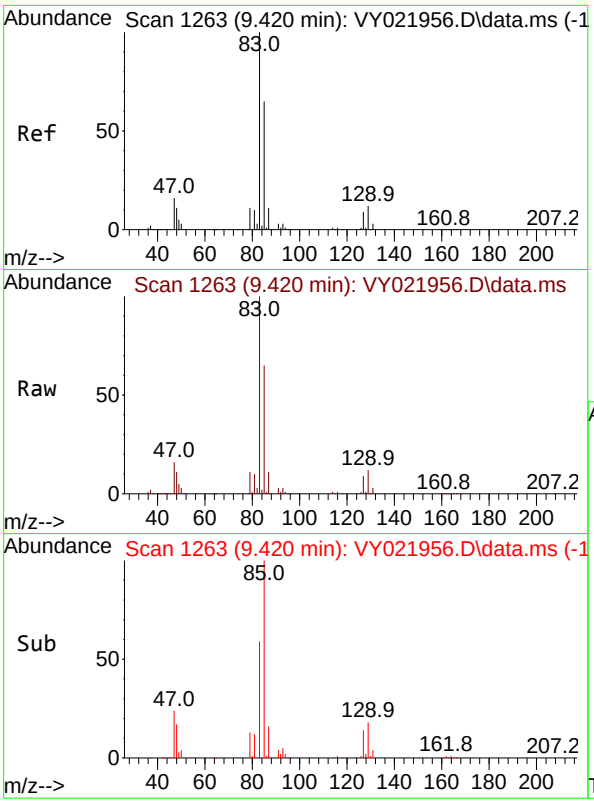


#46
Dibromomethane
Concen: 48.740 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 93 Resp: 93536

Ion	Ratio	Lower	Upper
93	100		
95	83.4	66.7	100.1
174	105.8	84.6	127.0

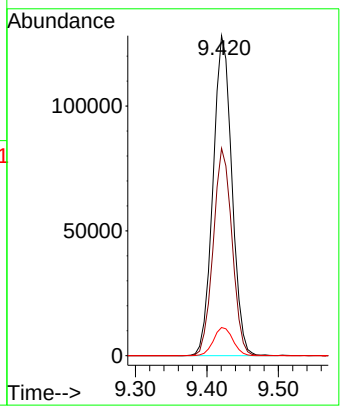




#47
Bromodichloromethane
Concen: 49.010 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 83 Resp: 23496

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.8
127	8.8	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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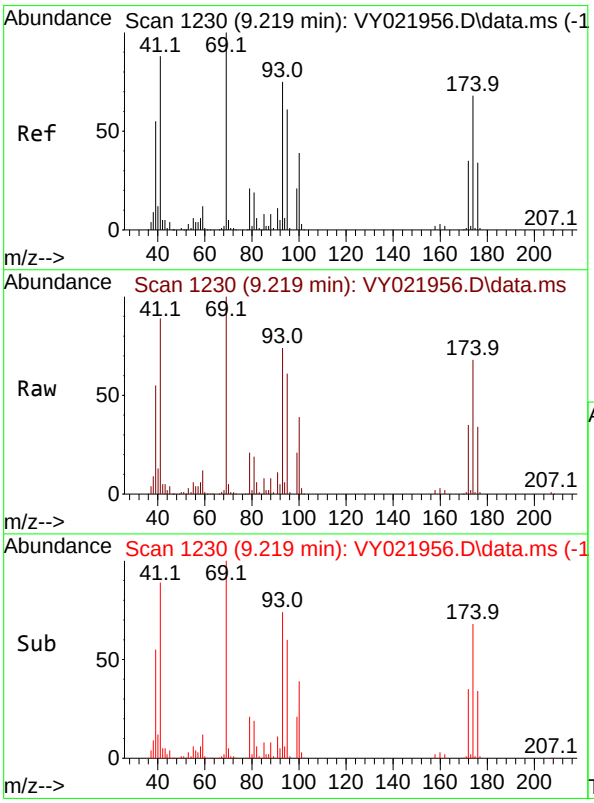
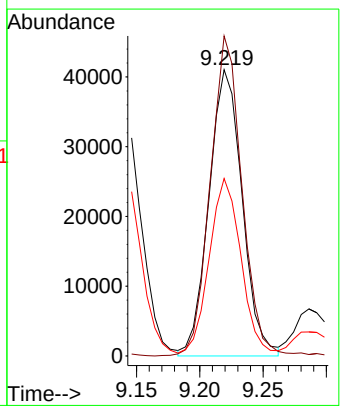
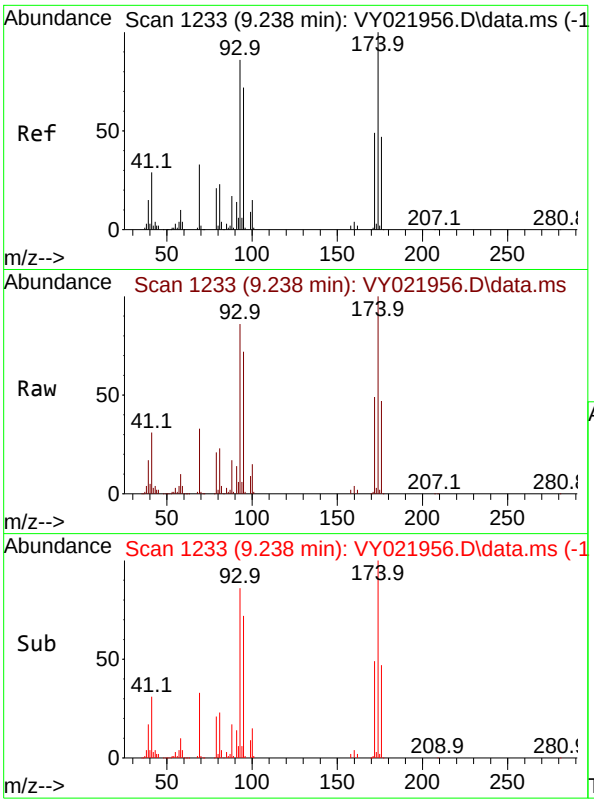


#48
Methyl methacrylate
Concen: 53.082 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 41 Resp: 75057

Ion	Ratio	Lower	Upper
41	100		
69	106.9	85.5	128.3
39	57.8	46.2	69.4

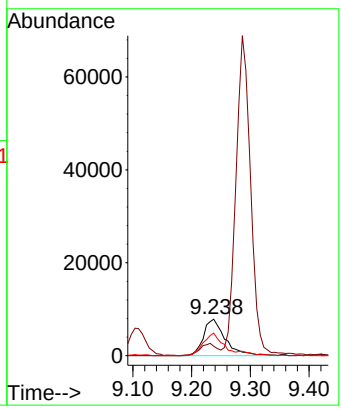




#49
1,4-Dioxane
Concen: 992.601 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 88 Resp: 2030

Ion	Ratio	Lower	Upper
88	100		
43	26.6	21.3	31.9
58	63.1	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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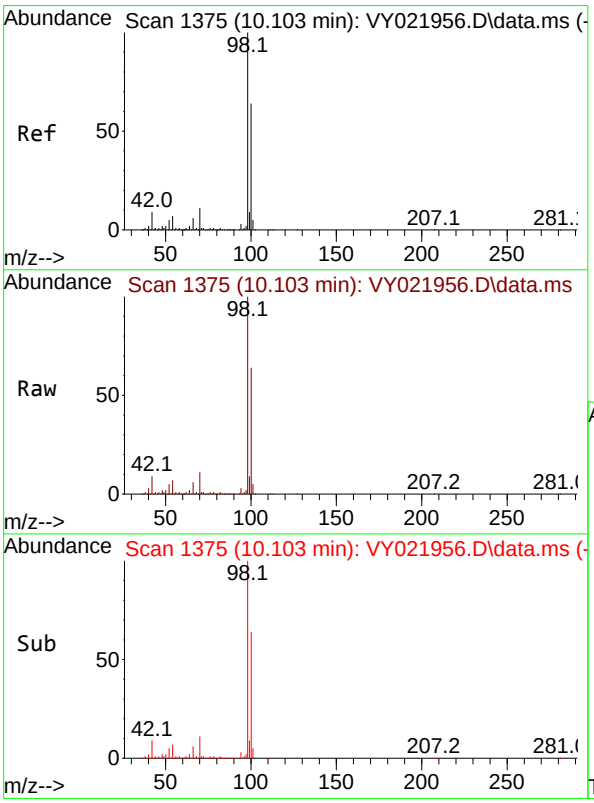
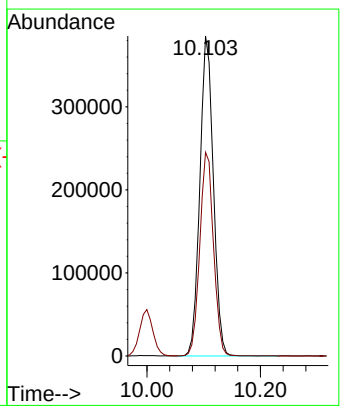
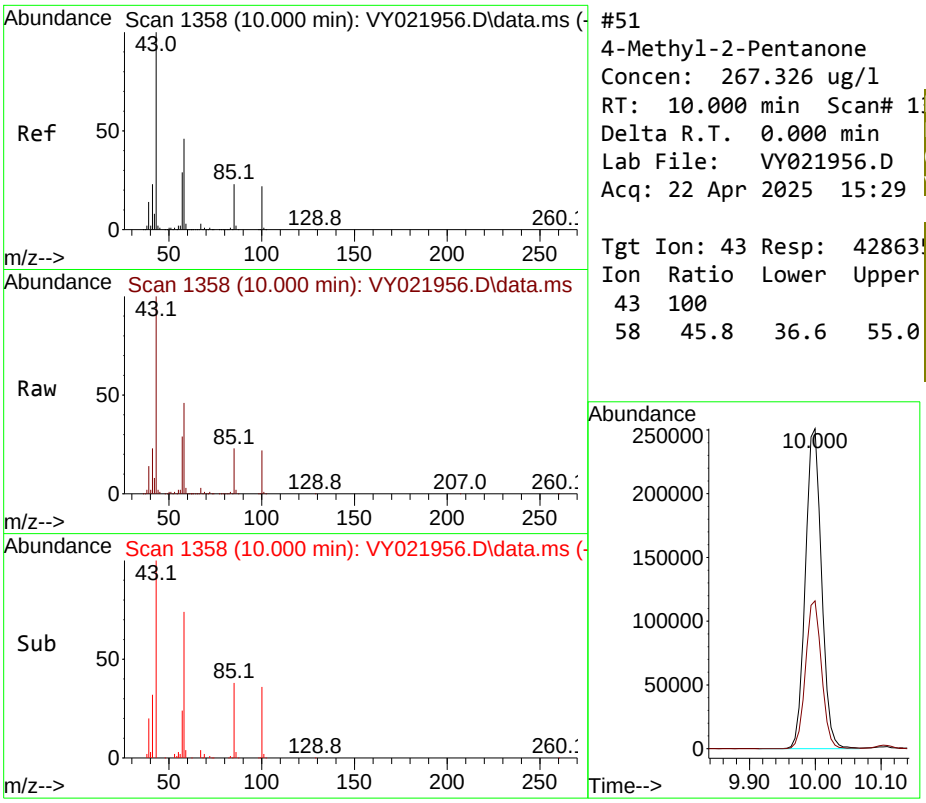


#50
Toluene-d8
Concen: 51.241 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 98 Resp: 637767

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.6	77.4





#51
4-Methyl-2-Pentanone
Concen: 267.326 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 42863

Ion	Ratio	Lower	Upper
43	100		
58	45.8	36.6	55.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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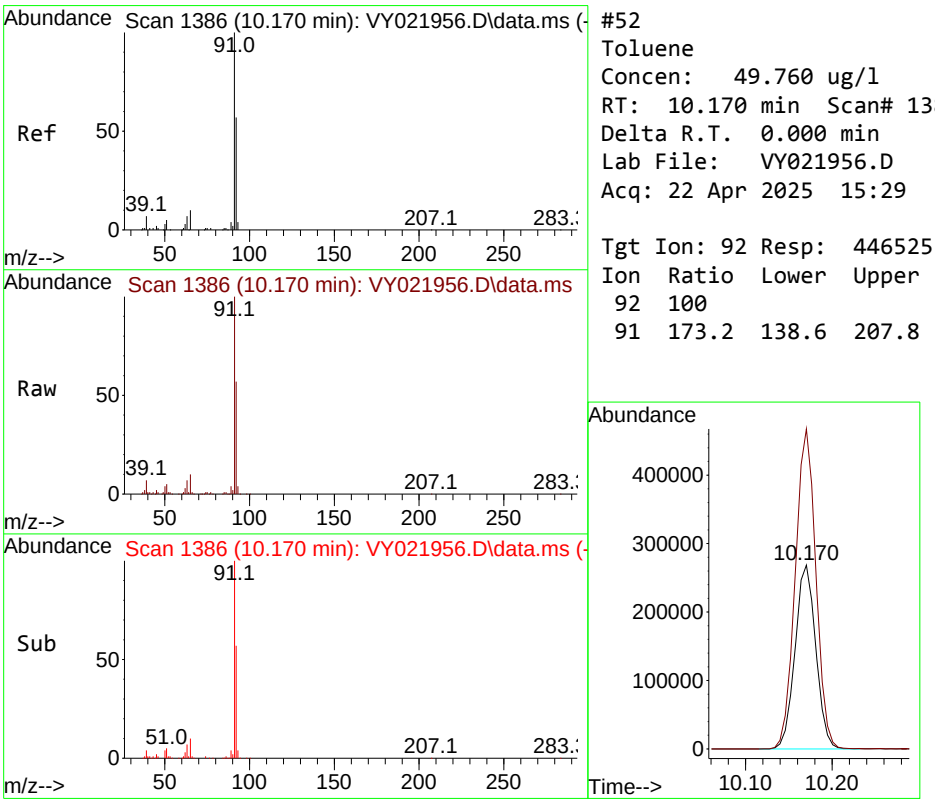
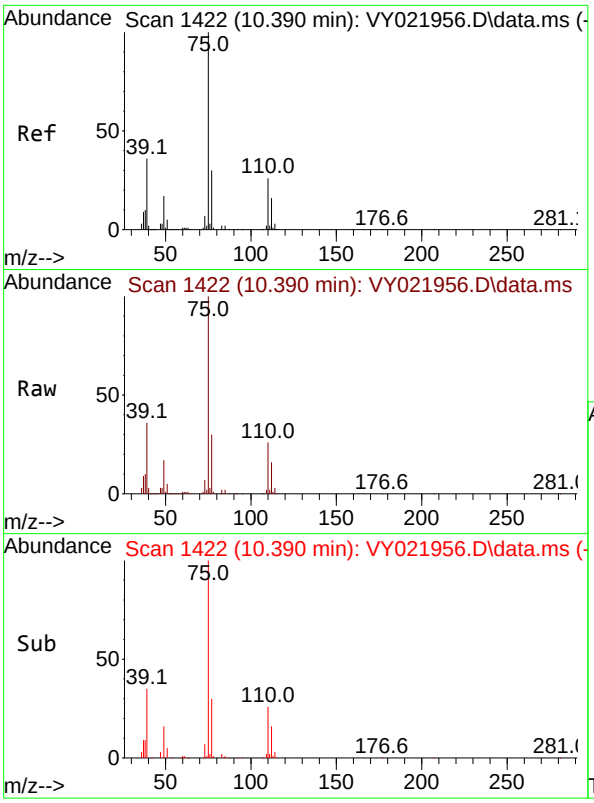


#52
Toluene
Concen: 49.760 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 92 Resp: 446525

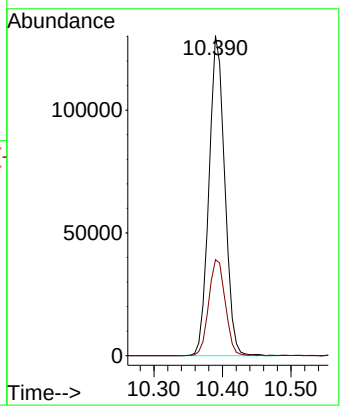
Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.6	207.8



#53
t-1,3-Dichloropropene
Concen: 50.698 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 75 Resp: 20847

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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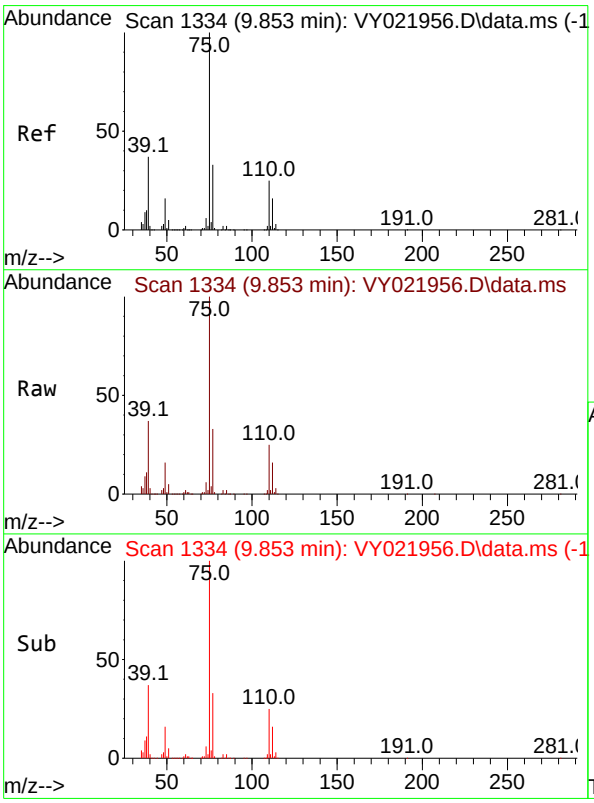
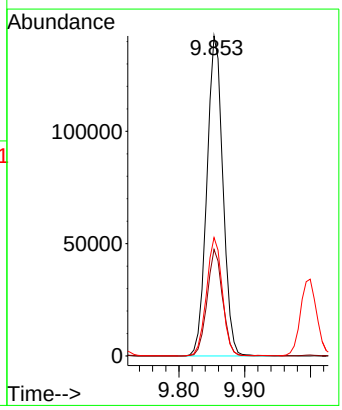
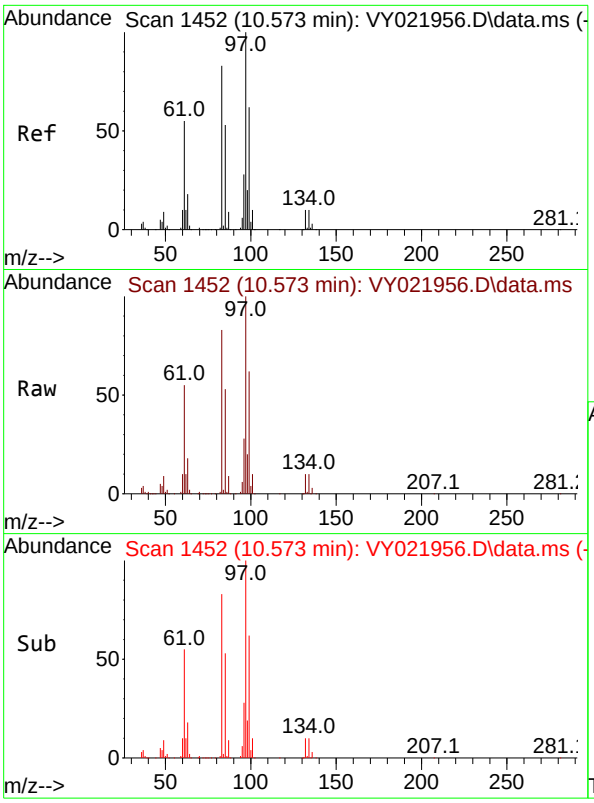


#54
cis-1,3-Dichloropropene
Concen: 49.432 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 75 Resp: 241637

Ion	Ratio	Lower	Upper
75	100		
77	33.3	26.6	40.0
39	37.0	29.6	44.4

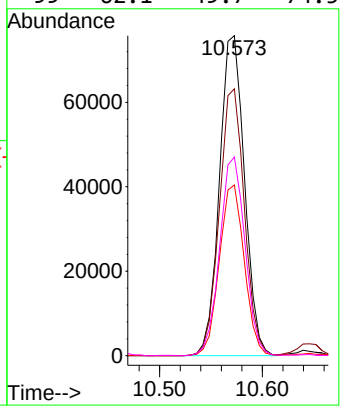




#55
1,1,2-Trichloroethane
Concen: 49.965 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 97 Resp: 12808

Ion	Ratio	Lower	Upper
97	100		
83	83.4	66.7	100.1
85	53.3	42.6	64.0
99	62.1	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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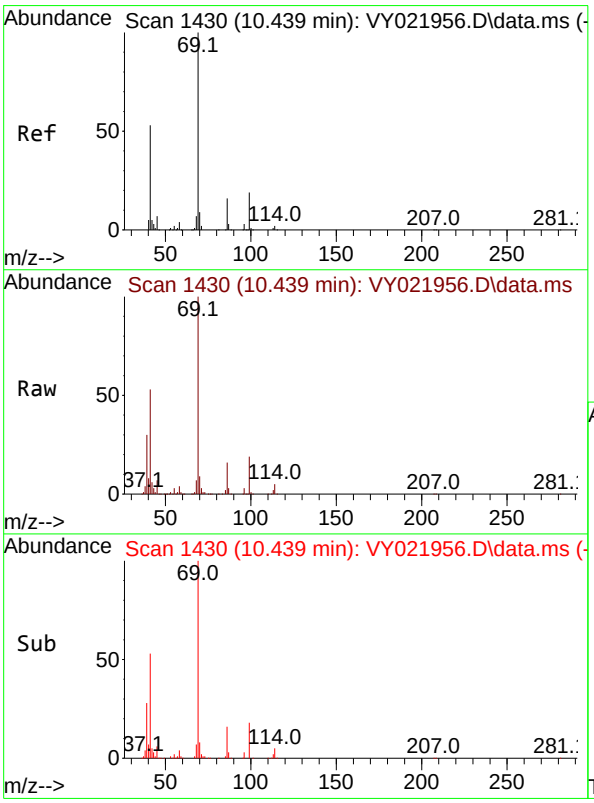
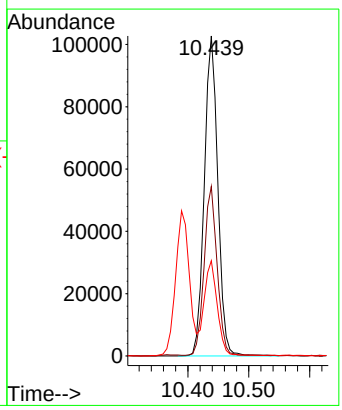
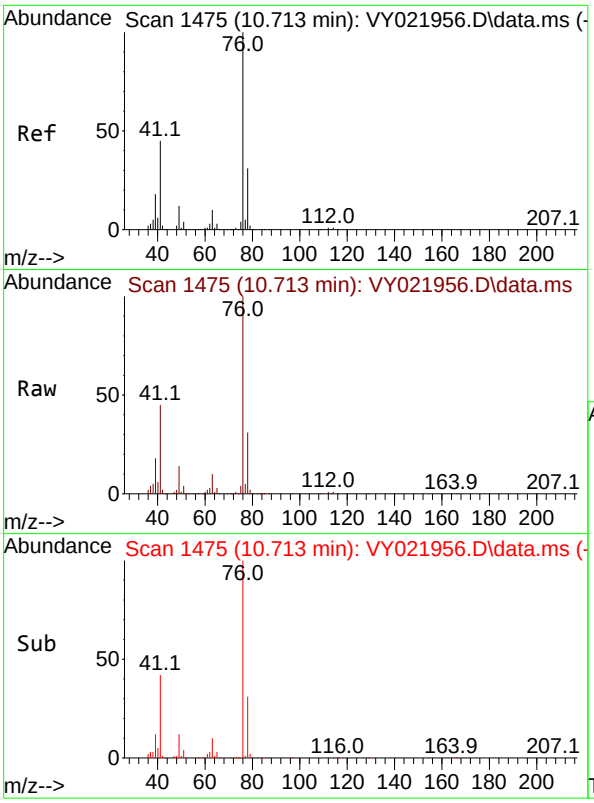


#56
Ethyl methacrylate
Concen: 53.893 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 69 Resp: 157986

Ion	Ratio	Lower	Upper
69	100		
41	50.9	40.7	61.1
39	29.1	23.3	34.9

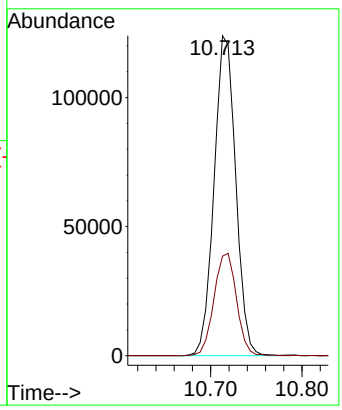




#57
1,3-Dichloropropane
Concen: 49.688 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 76 Resp: 20419

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
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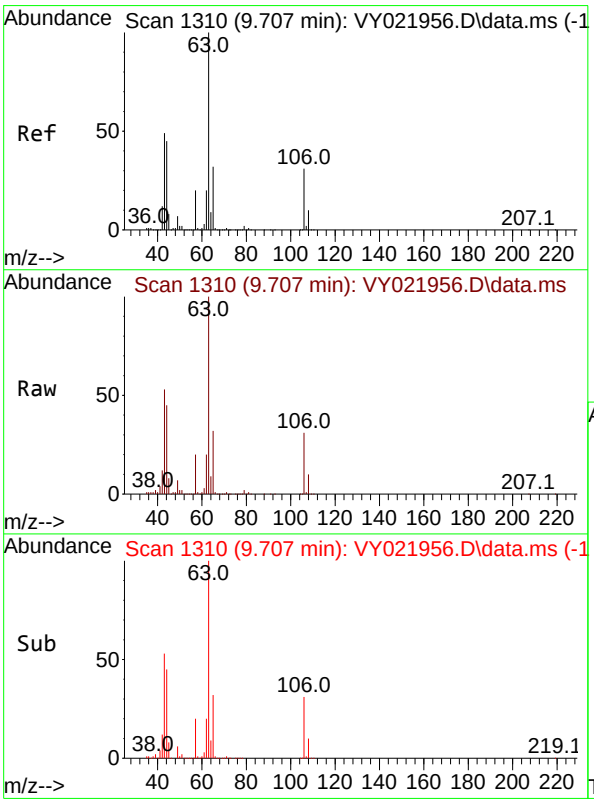
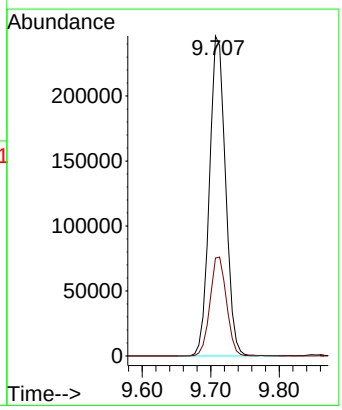
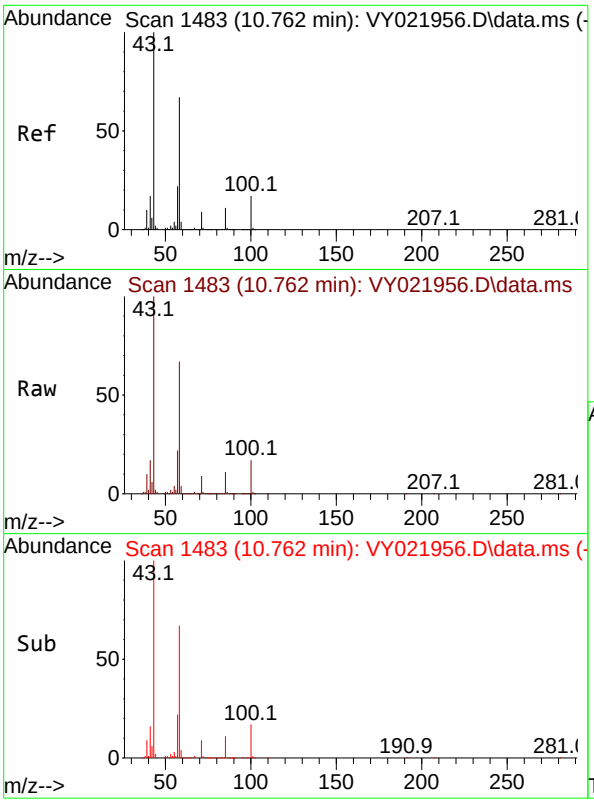


#58
2-Chloroethyl Vinyl ether
Concen: 279.797 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 63 Resp: 401030

Ion	Ratio	Lower	Upper
63	100		
106	31.6	25.3	37.9

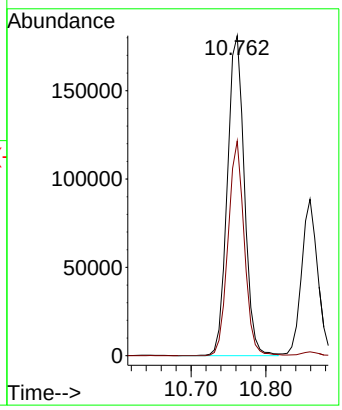




#59
2-Hexanone
Concen: 271.141 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 28675

Ion	Ratio	Lower	Upper
43	100		
58	64.0	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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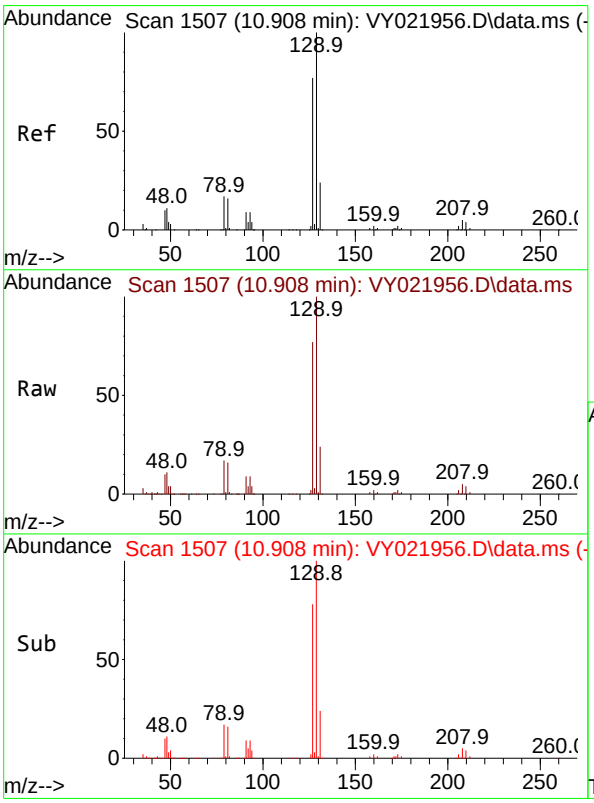
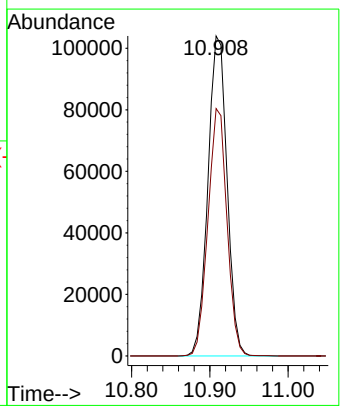
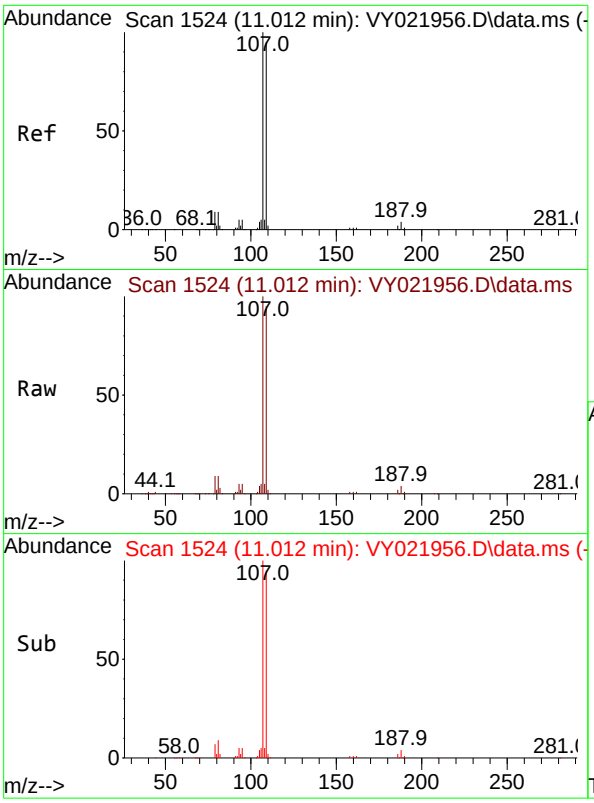


#60
Dibromochloromethane
Concen: 49.624 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:129 Resp: 176120

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.5	115.3

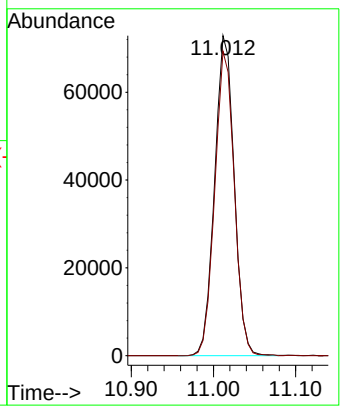




#61
1,2-Dibromoethane
Concen: 49.835 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:107 Resp: 12060

Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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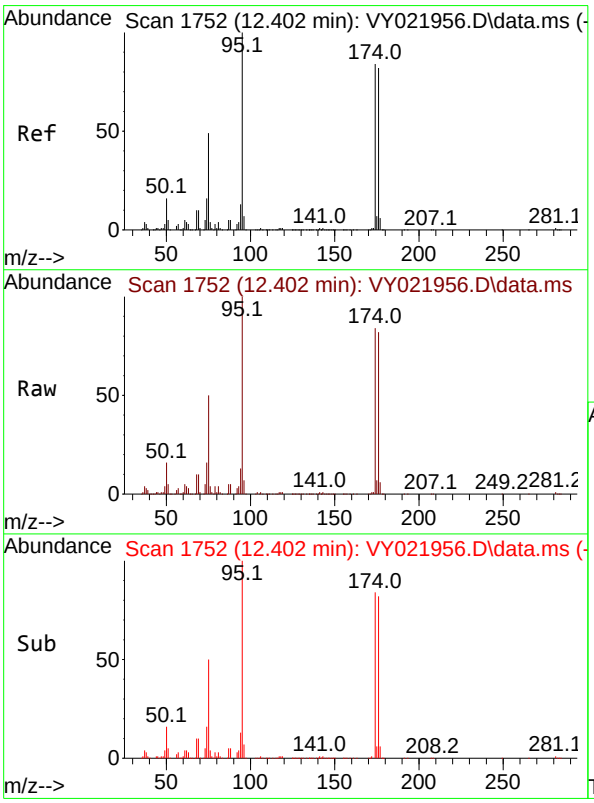
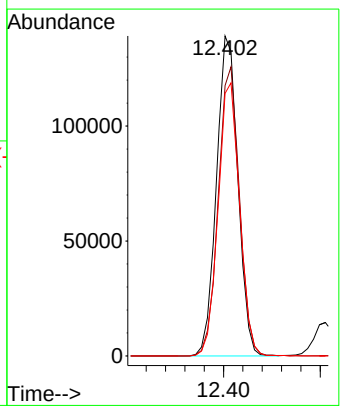
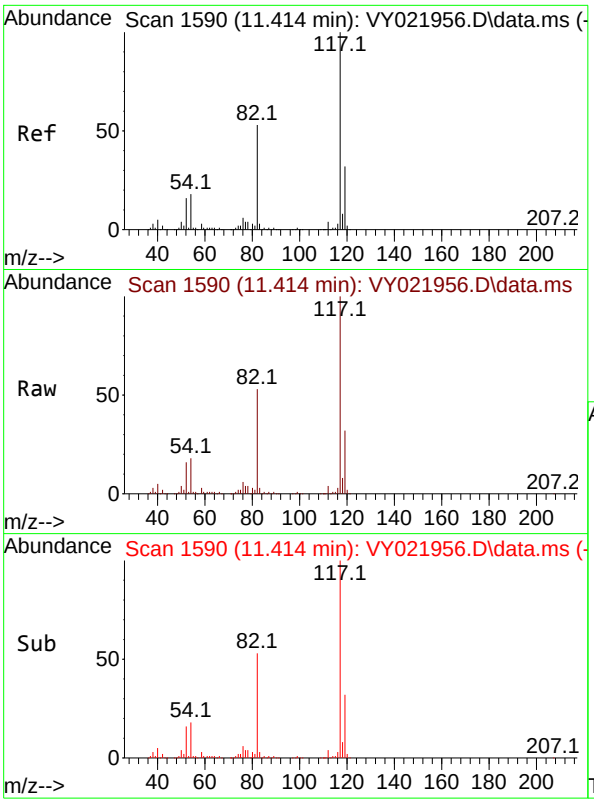


#62
4-Bromofluorobenzene
Concen: 50.820 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 95 Resp: 212936

Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	179.0
176	85.9	0.0	171.8

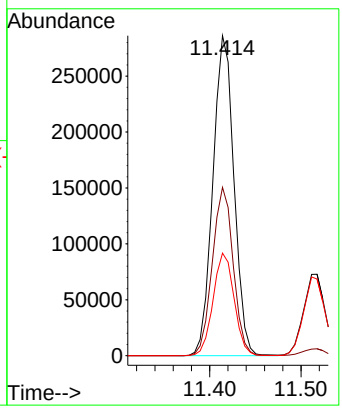




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:117 Resp: 45850

Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.1	63.1
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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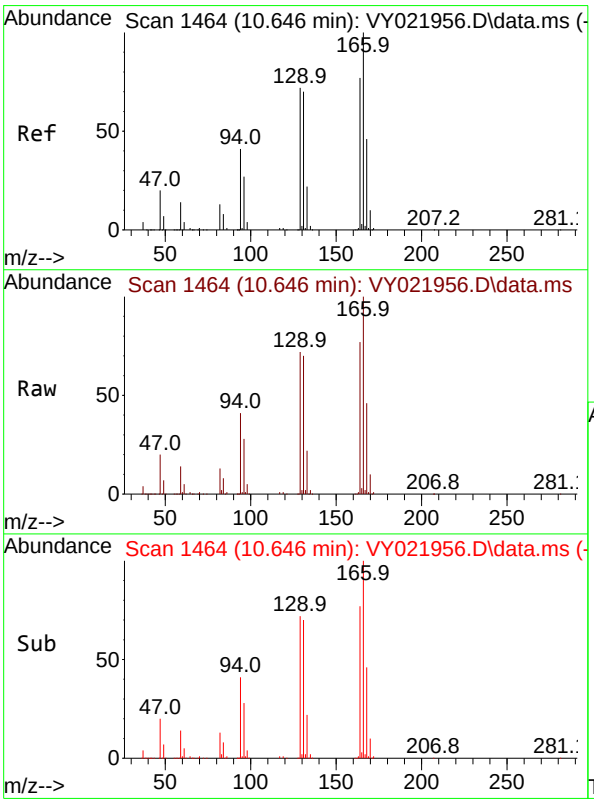
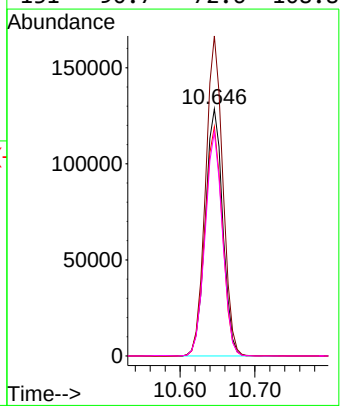
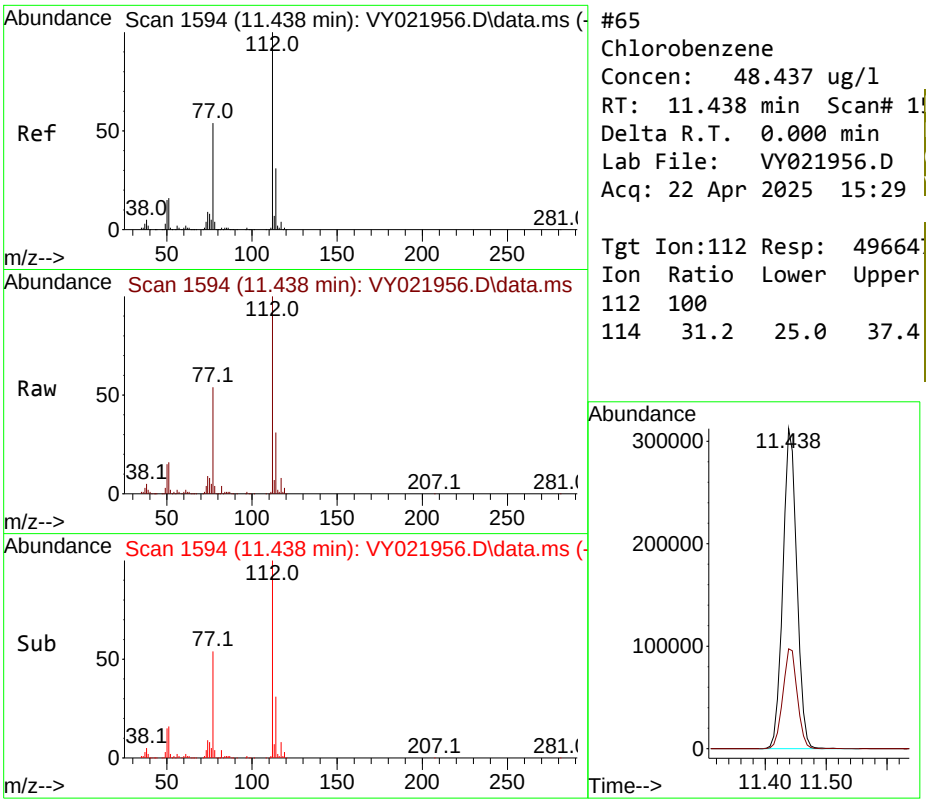


#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:164 Resp: 208756

Ion	Ratio	Lower	Upper
164	100		
166	129.5	103.6	155.4
129	92.8	74.2	111.4
131	90.7	72.6	108.8





#65
Chlorobenzene
Concen: 48.437 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:112 Resp: 49664

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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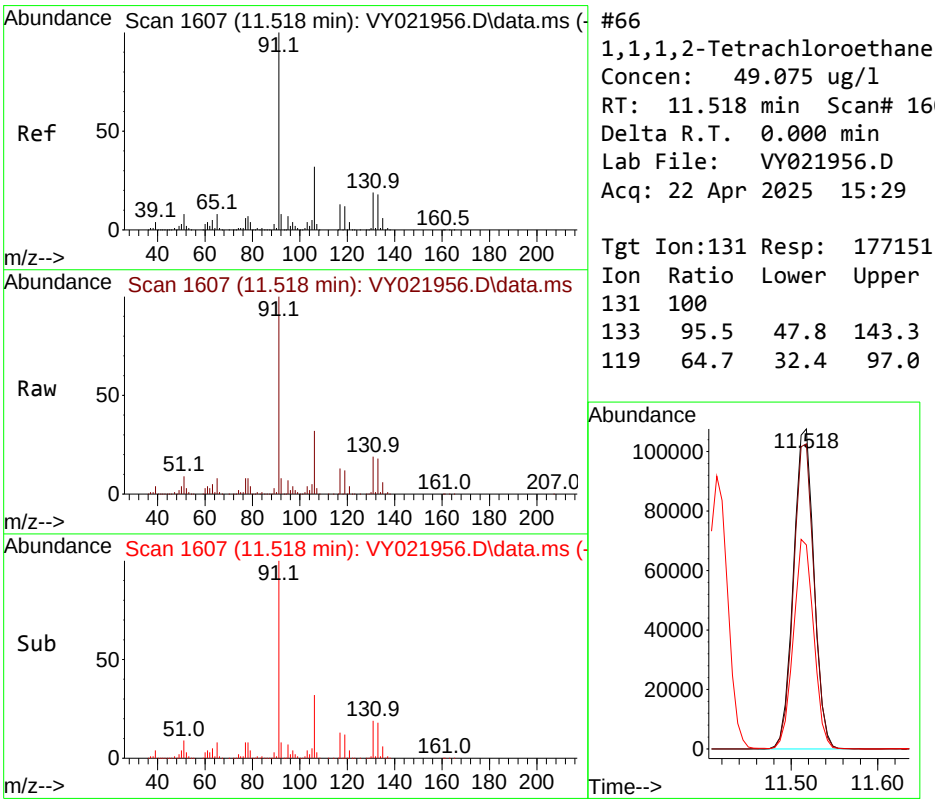
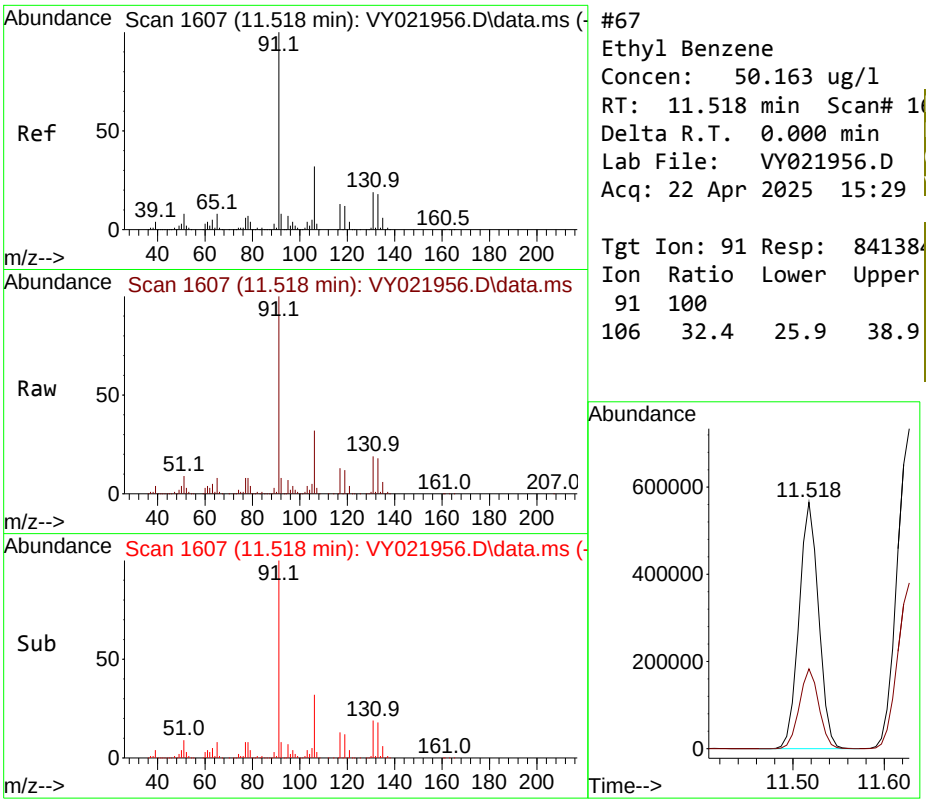


#66
1,1,1,2-Tetrachloroethane
Concen: 49.075 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:131 Resp: 177151

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.8	143.3
119	64.7	32.4	97.0



#67
Ethyl Benzene
Concen: 50.163 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 91 Resp: 84138

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.9	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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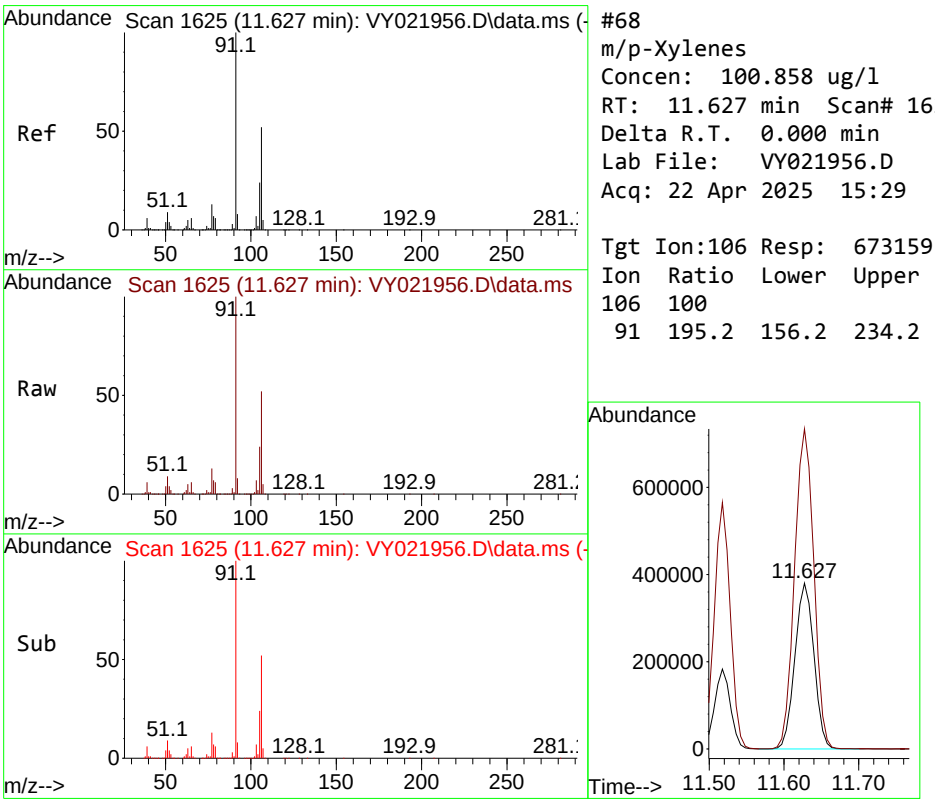
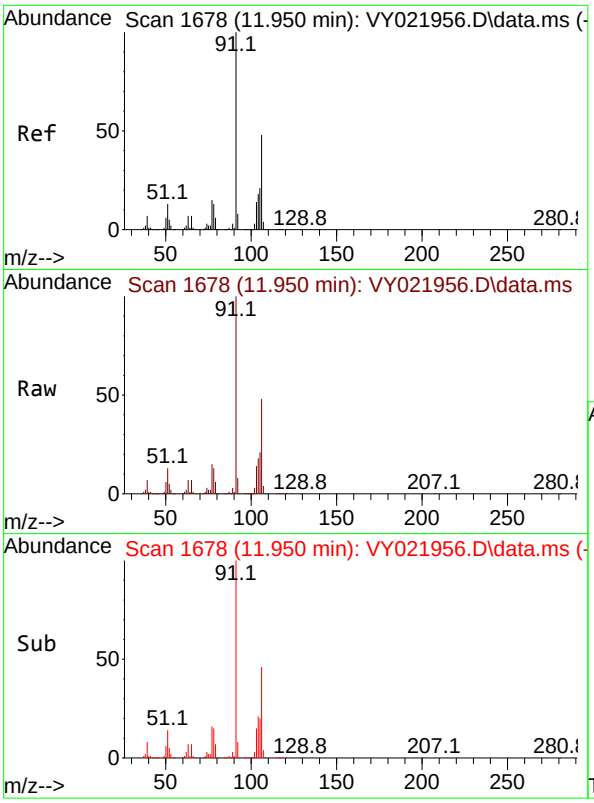


#68
m/p-Xylenes
Concen: 100.858 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:106 Resp: 673159

Ion	Ratio	Lower	Upper
106	100		
91	195.2	156.2	234.2



#69
o-Xylene
Concen: 51.325 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:106 Resp: 31573

Ion	Ratio	Lower	Upper
106	100		
91	205.9	103.0	308.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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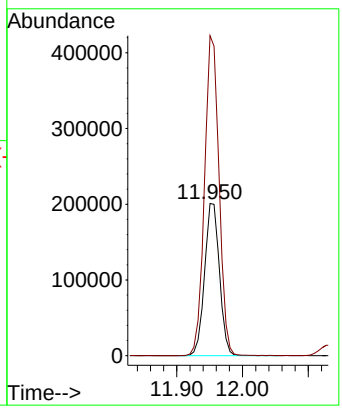
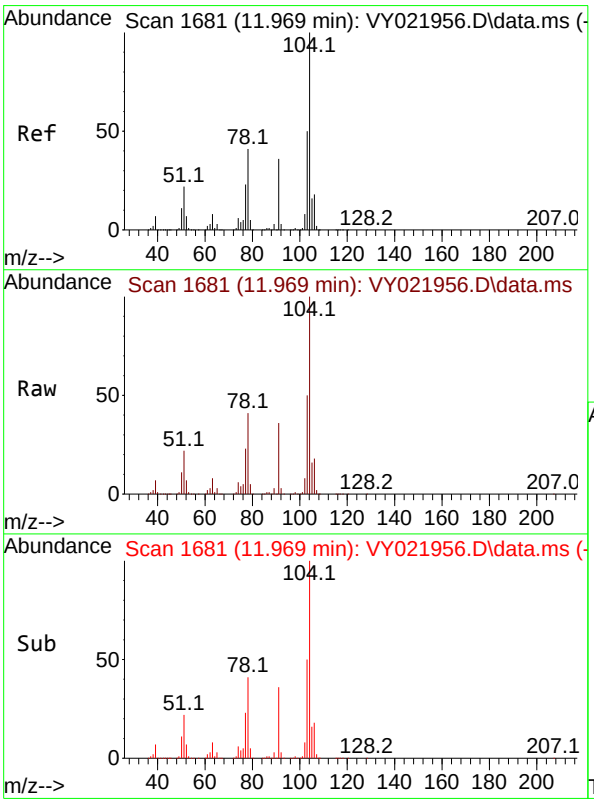
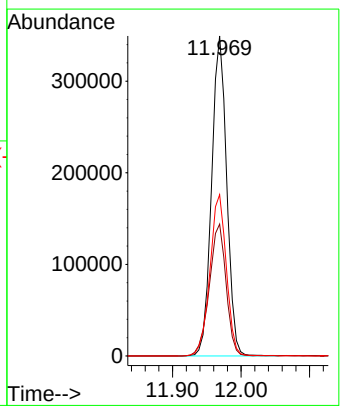


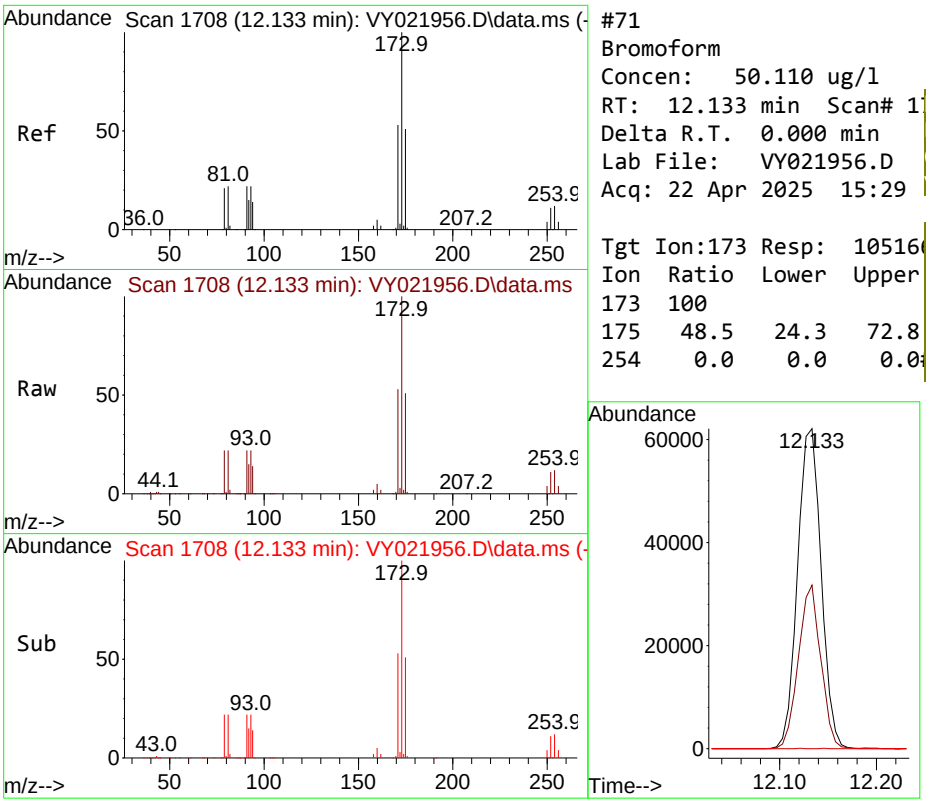


#70
Styrene
Concen: 51.890 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:104 Resp: 535957

Ion	Ratio	Lower	Upper
104	100		
78	45.7	36.6	54.8
103	54.8	43.8	65.8





#71
Bromoform
Concen: 50.110 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:173 Resp: 10516

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.8
254	0.0	0.0	0.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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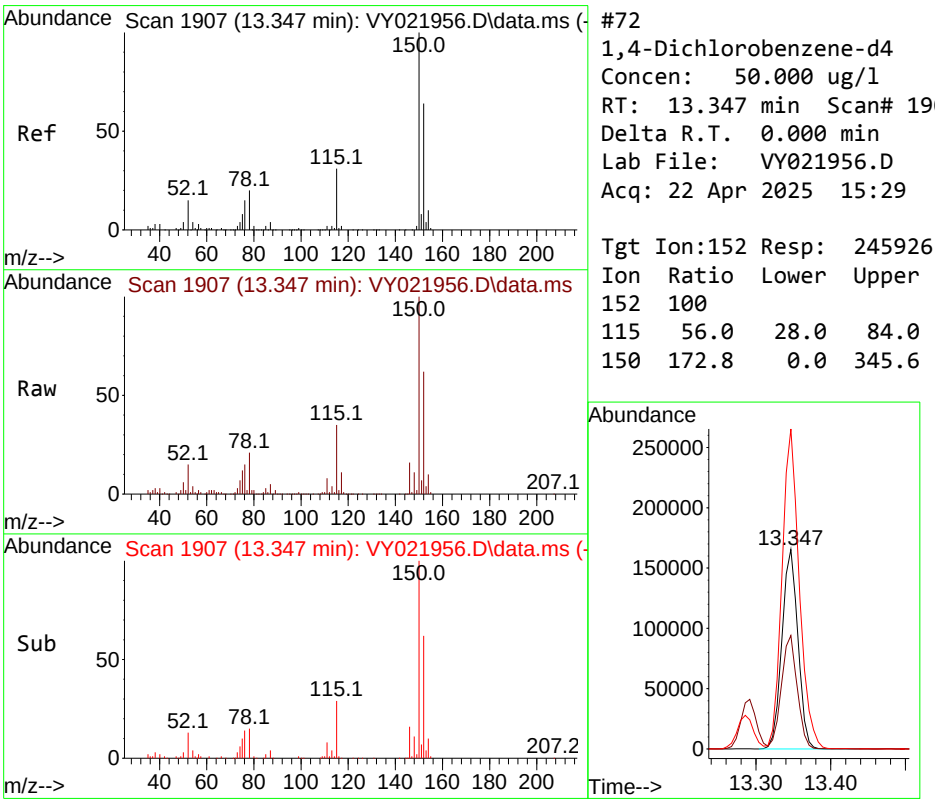
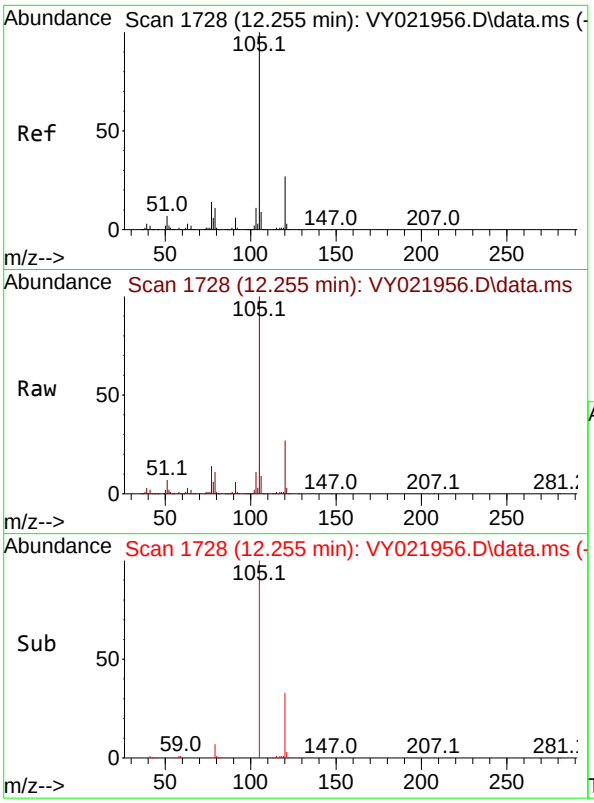


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:152 Resp: 245926

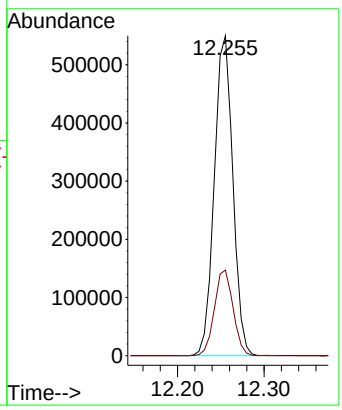
Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.0	84.0
150	172.8	0.0	345.6



#73
Isopropylbenzene
Concen: 49.770 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:105 Resp: 81774

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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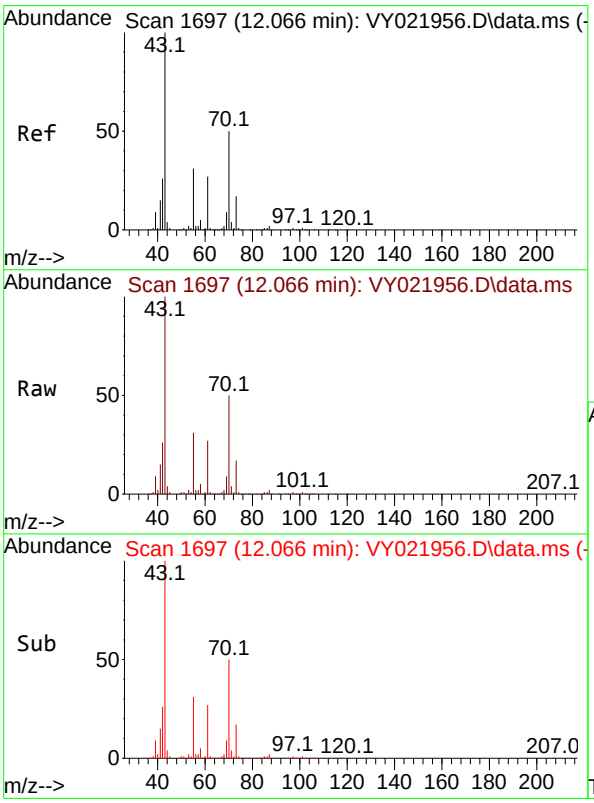
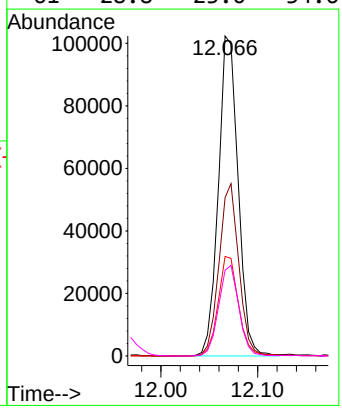
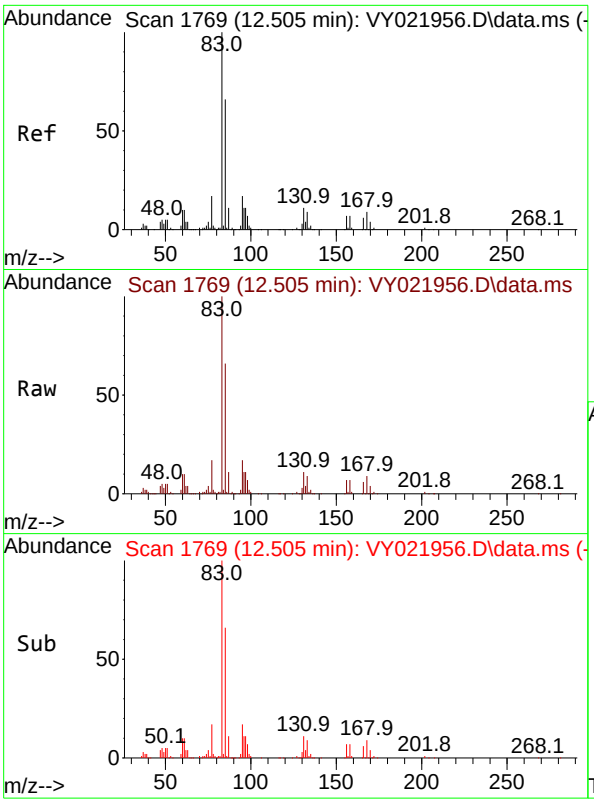


#74
N-amyl acetate
Concen: 51.512 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 43 Resp: 145415

Ion	Ratio	Lower	Upper
43	100		
70	54.0	43.2	64.8
55	32.1	25.7	38.5
61	28.8	23.0	34.6

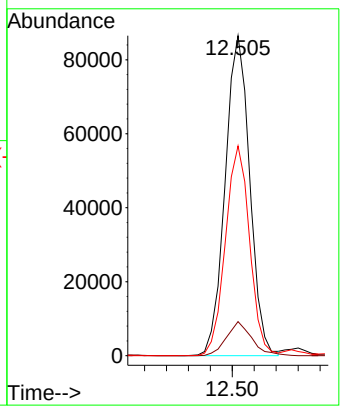




#75
1,1,2,2-Tetrachloroethane
Concen: 48.682 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 83 Resp: 13485

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.5	16.4
85	64.5	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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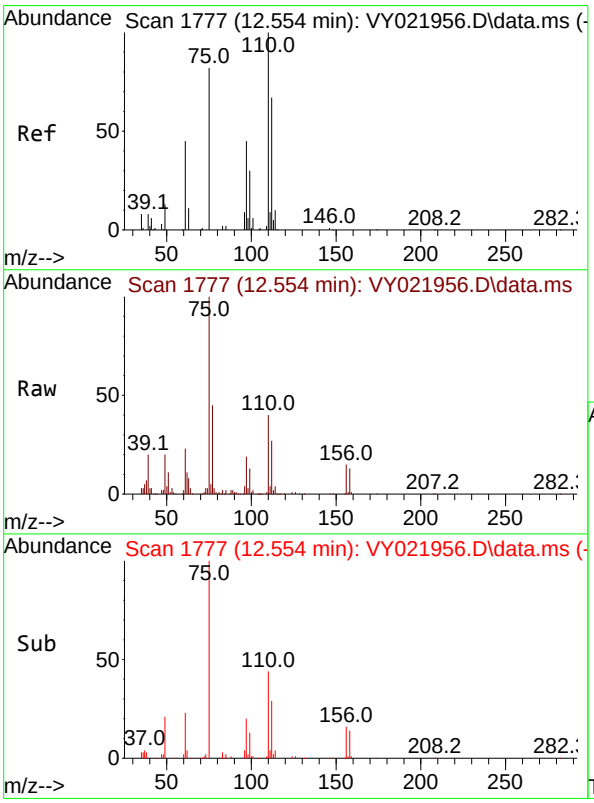
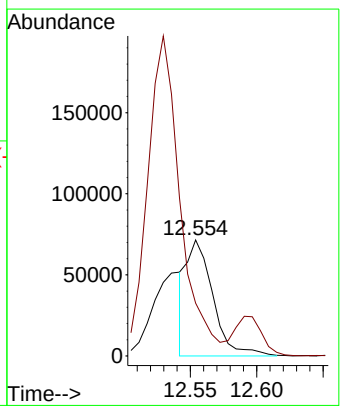
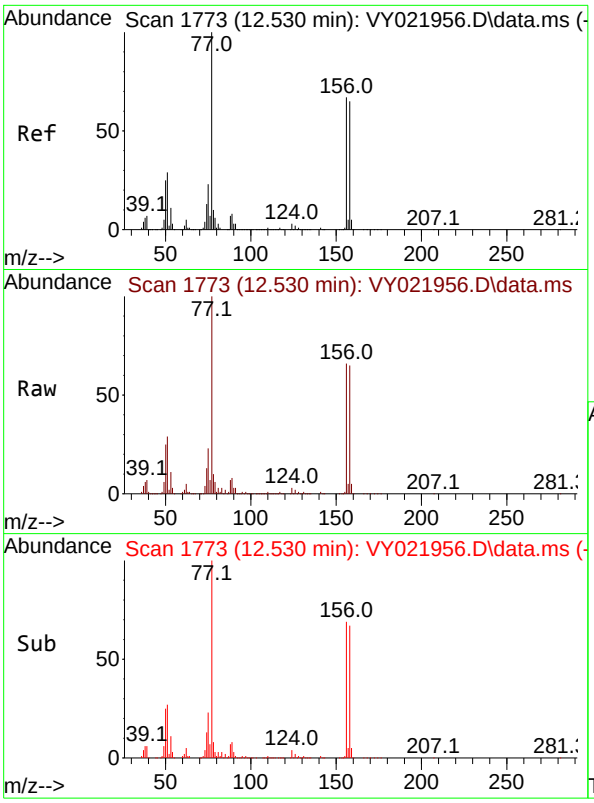


#76
1,2,3-Trichloropropane
Concen: 45.999 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 75 Resp: 99679

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

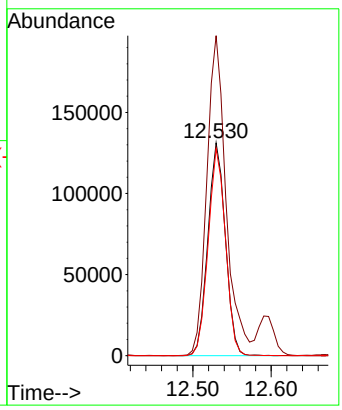




#77
Bromobenzene
Concen: 49.021 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:156 Resp: 20352

Ion	Ratio	Lower	Upper
156	100		
77	165.4	82.7	248.1
158	96.3	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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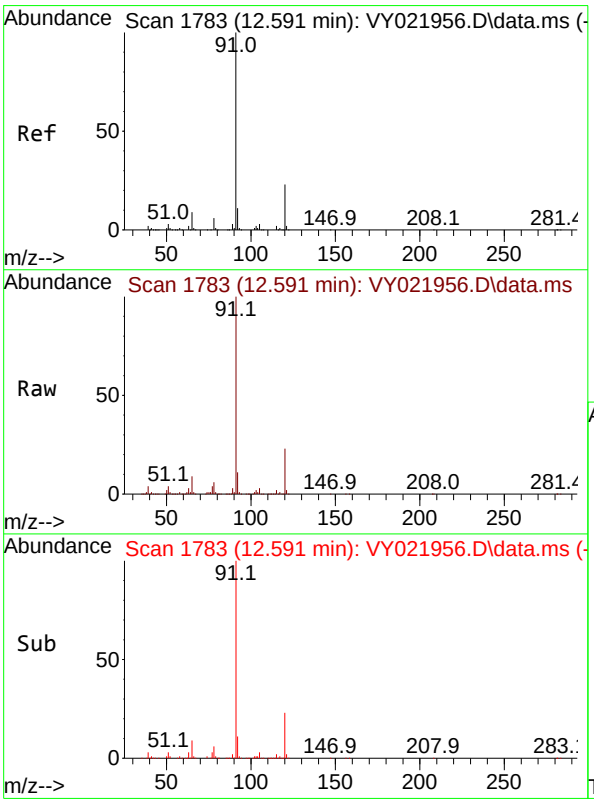
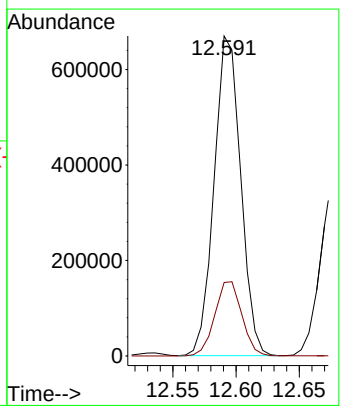
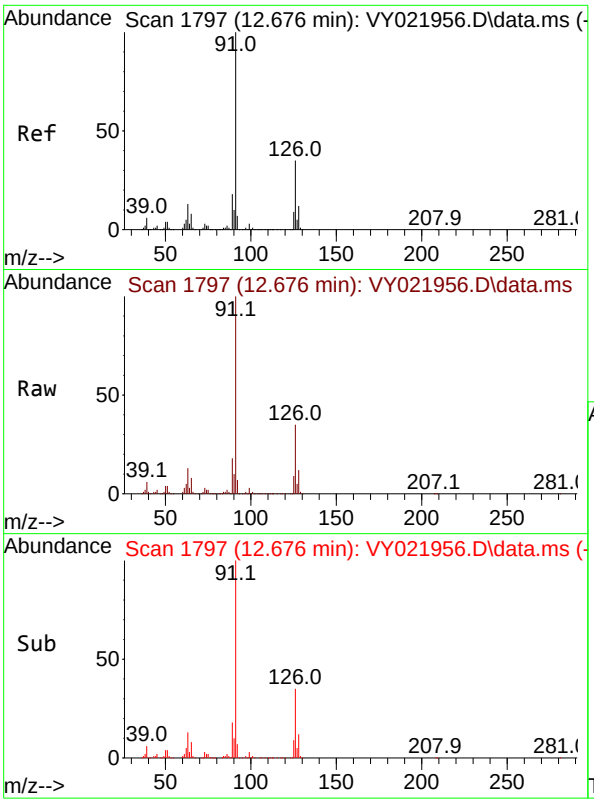


#78
n-propylbenzene
Concen: 49.981 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 91 Resp: 977958

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.9	35.5

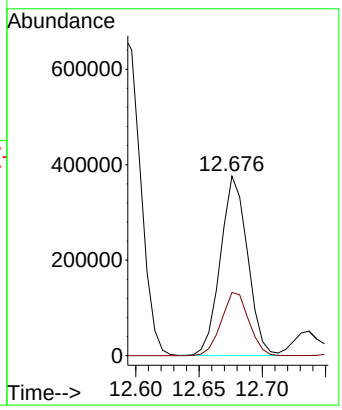




#79
2-Chlorotoluene
Concen: 49.283 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 91 Resp: 56080

Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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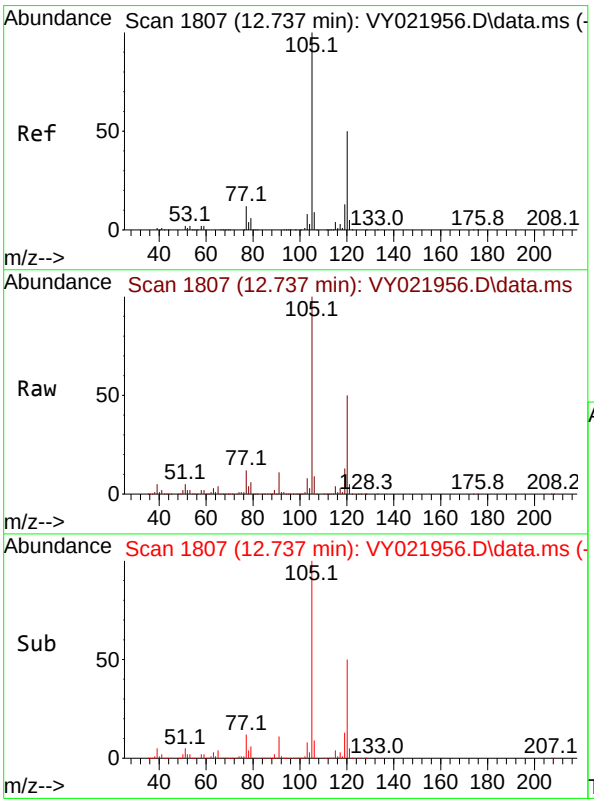
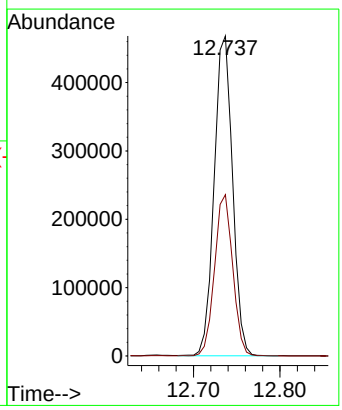
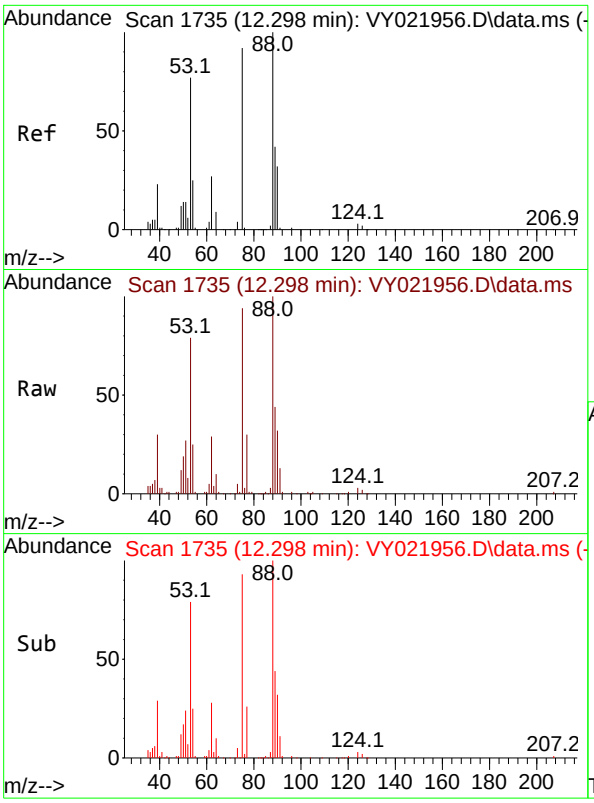


#80
1,3,5-Trimethylbenzene
Concen: 50.863 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:105 Resp: 688578

Ion	Ratio	Lower	Upper
105	100		
120	50.0	25.0	75.0

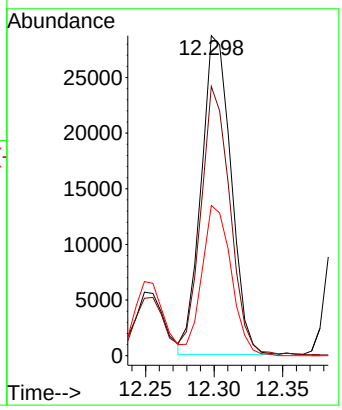




#81
trans-1,4-Dichloro-2-butene
Concen: 49.698 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 75 Resp: 4347

Ion	Ratio	Lower	Upper
75	100		
53	82.5	66.0	99.0
89	46.5	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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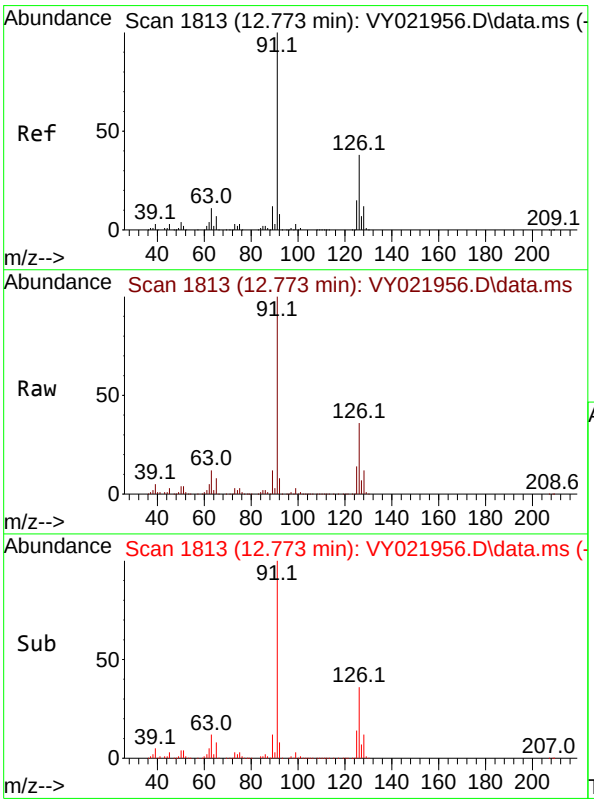
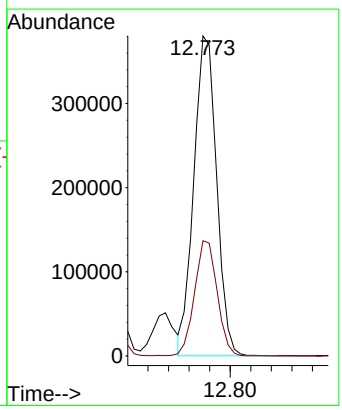
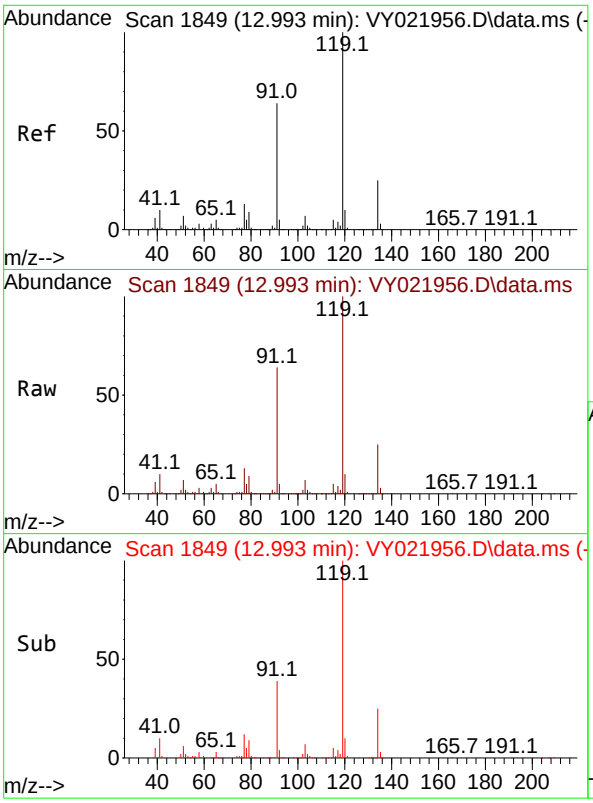


#82
4-Chlorotoluene
Concen: 49.478 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 91 Resp: 585277

Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.9	53.8

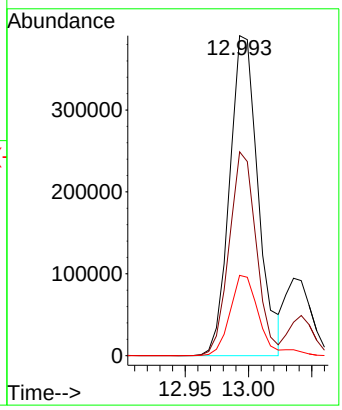




#83
tert-Butylbenzene
Concen: 50.513 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:119 Resp: 61329

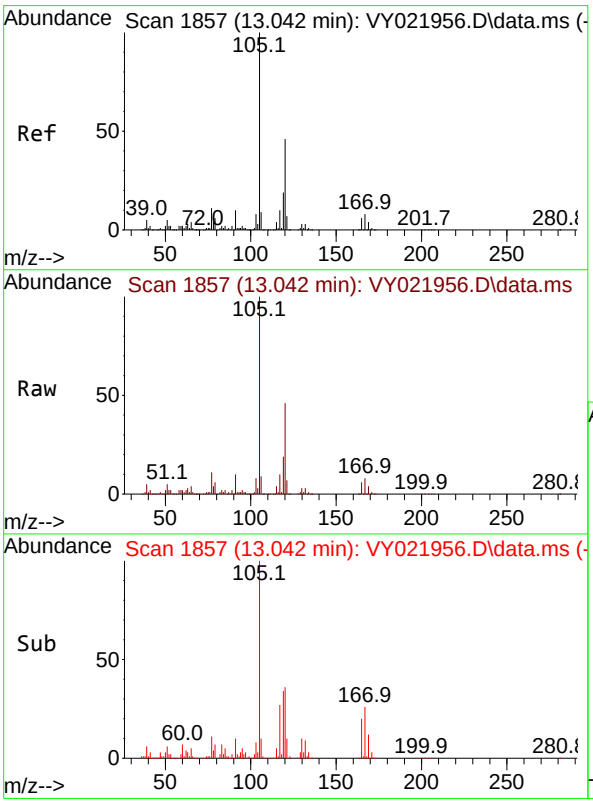
Ion	Ratio	Lower	Upper
119	100		
91	60.6	30.3	90.9
134	25.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

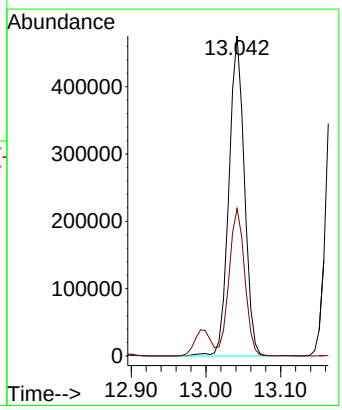
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

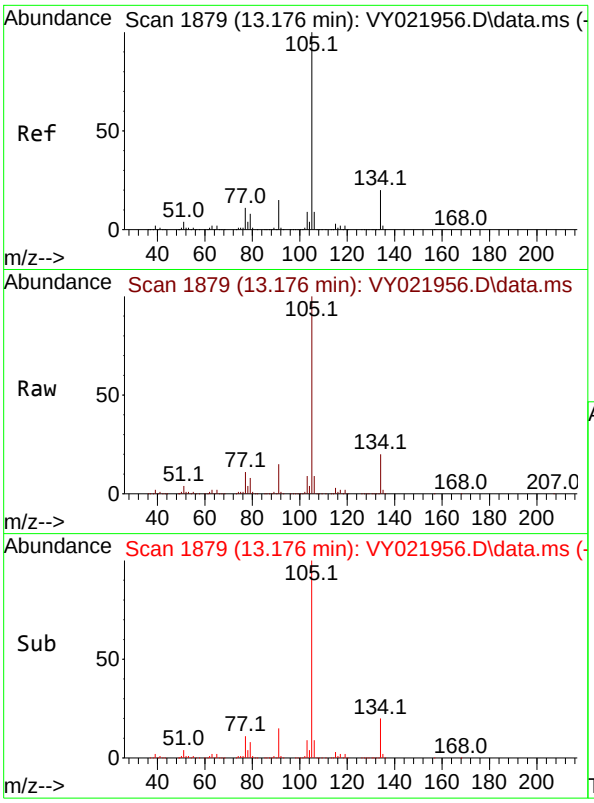


#84
1,2,4-Trimethylbenzene
Concen: 50.560 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:105 Resp: 684634

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.0

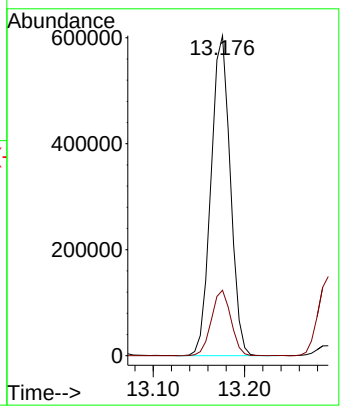




#85
sec-Butylbenzene
Concen: 49.857 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:105 Resp: 88579

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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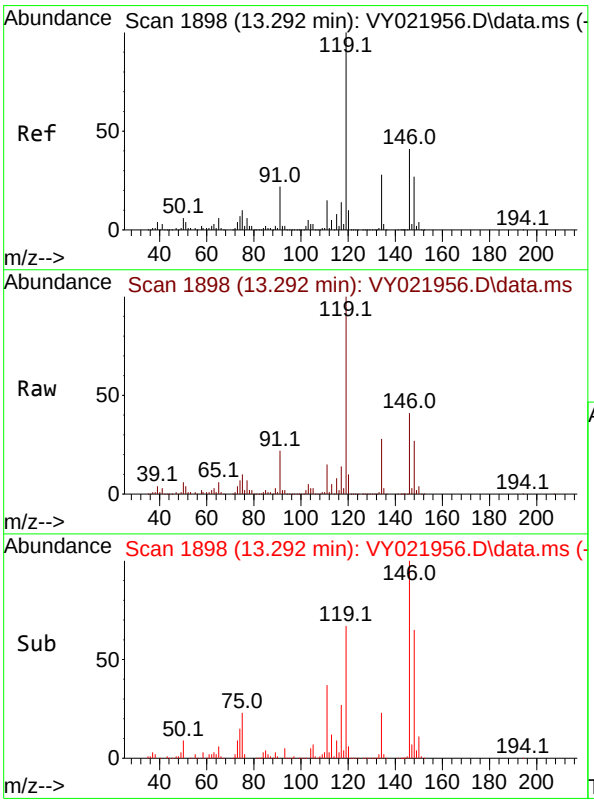
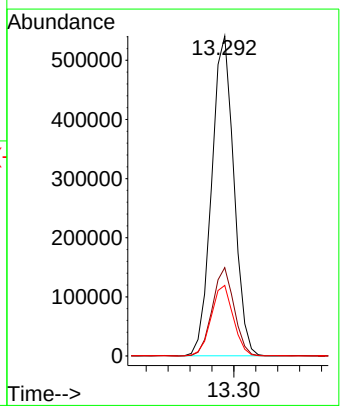
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

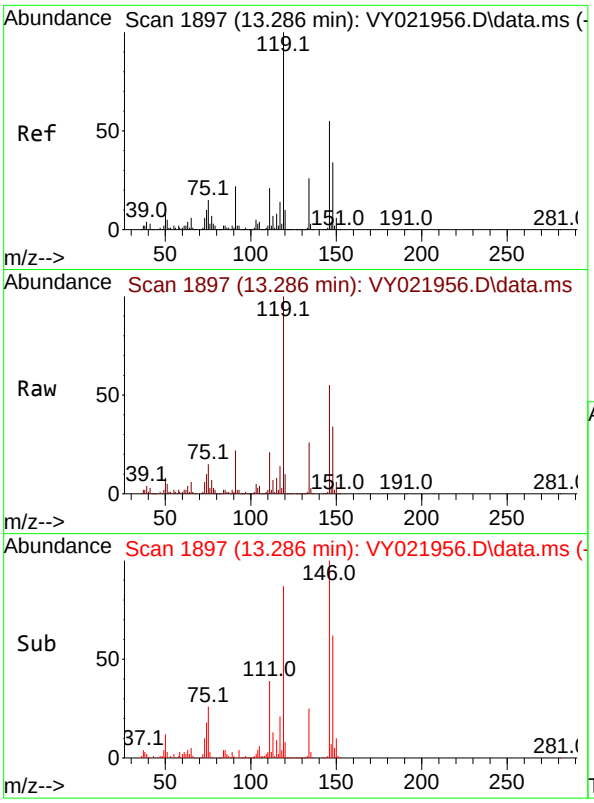


#86
p-Isopropyltoluene
Concen: 50.431 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:119 Resp: 760829

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.6	40.7
91	22.0	11.0	33.0

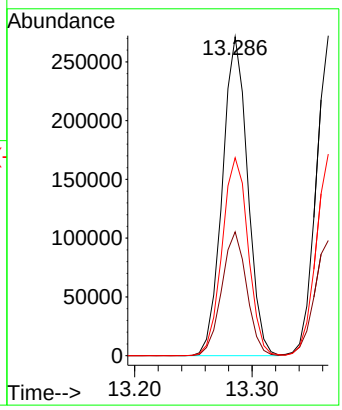




#87
1,3-Dichlorobenzene
Concen: 48.048 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:146 Resp: 40515

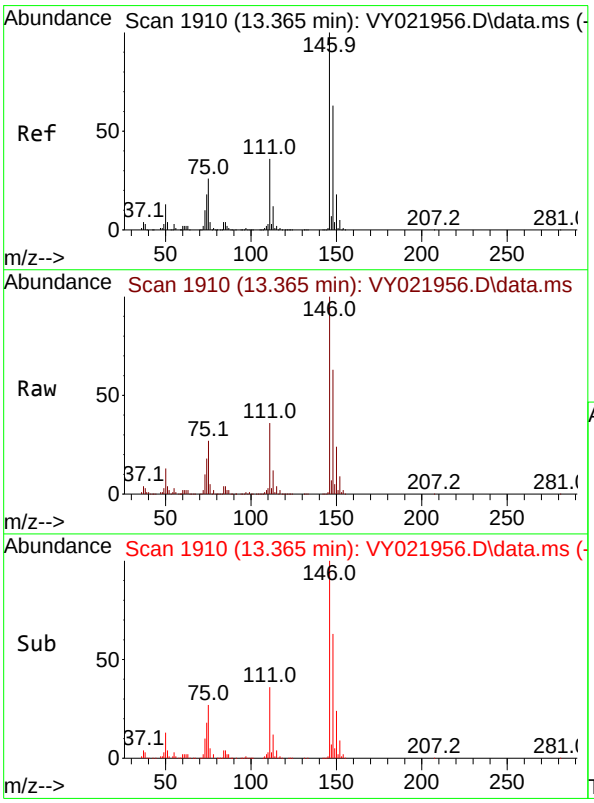
Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.5
148	64.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

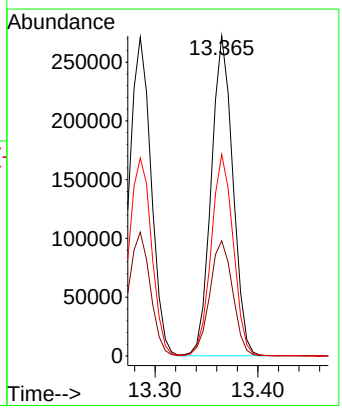
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

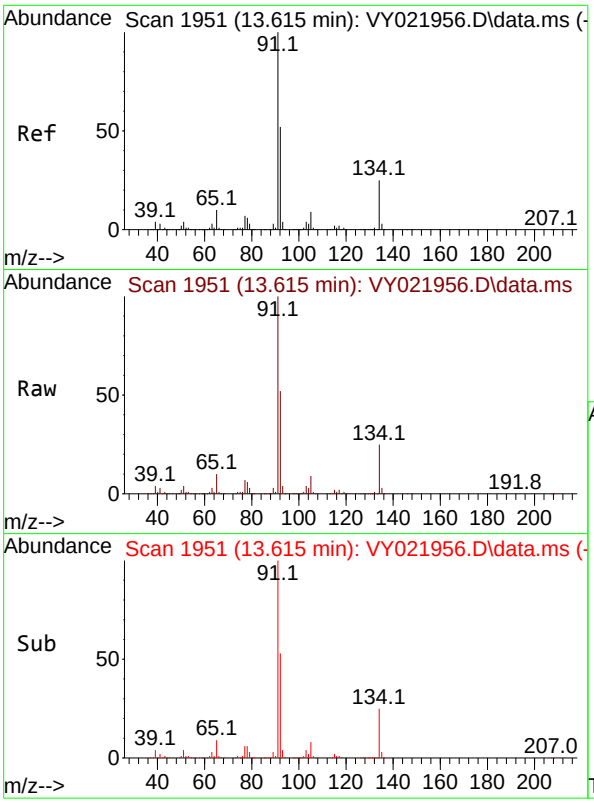


#88
1,4-Dichlorobenzene
Concen: 47.697 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:146 Resp: 398336

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	64.0	32.0	96.0

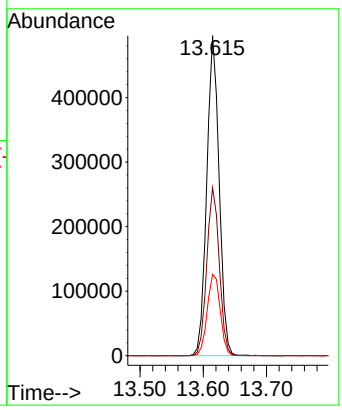




#89
n-Butylbenzene
Concen: 50.008 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 91 Resp: 67434

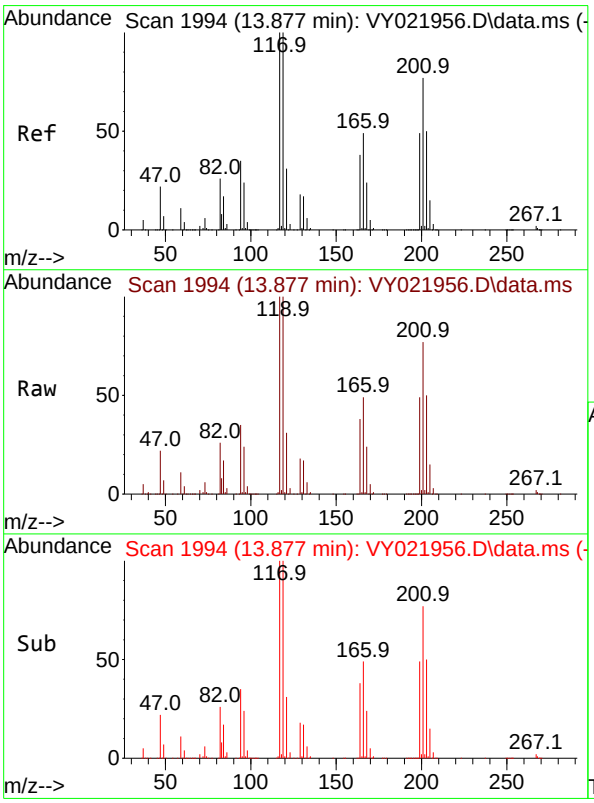
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.5	79.5
134	26.7	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

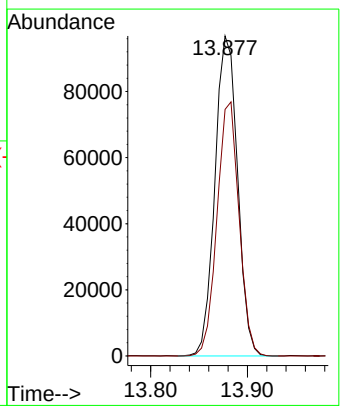
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

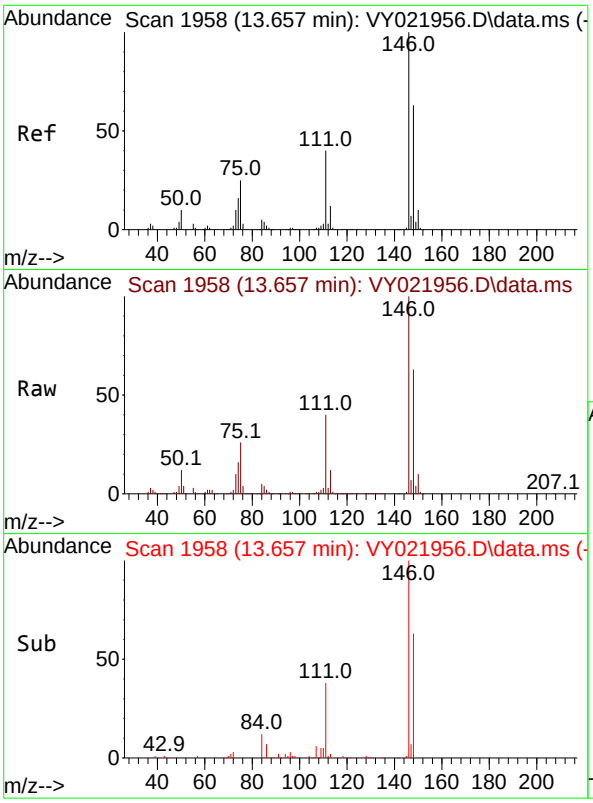


#90
Hexachloroethane
Concen: 47.353 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:117 Resp: 156957

Ion	Ratio	Lower	Upper
117	100		
201	77.4	38.7	116.1

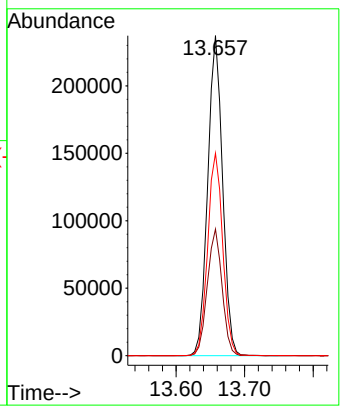




#91
1,2-Dichlorobenzene
Concen: 48.544 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:146 Resp: 35702

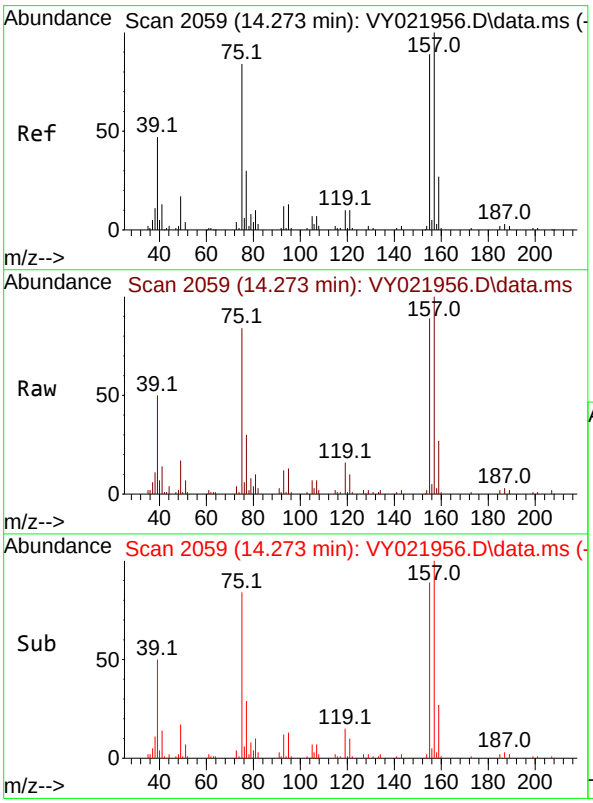
Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.7	59.1
148	64.2	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

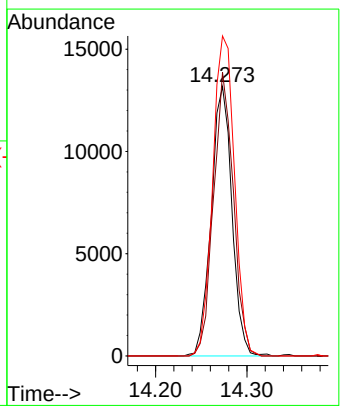
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

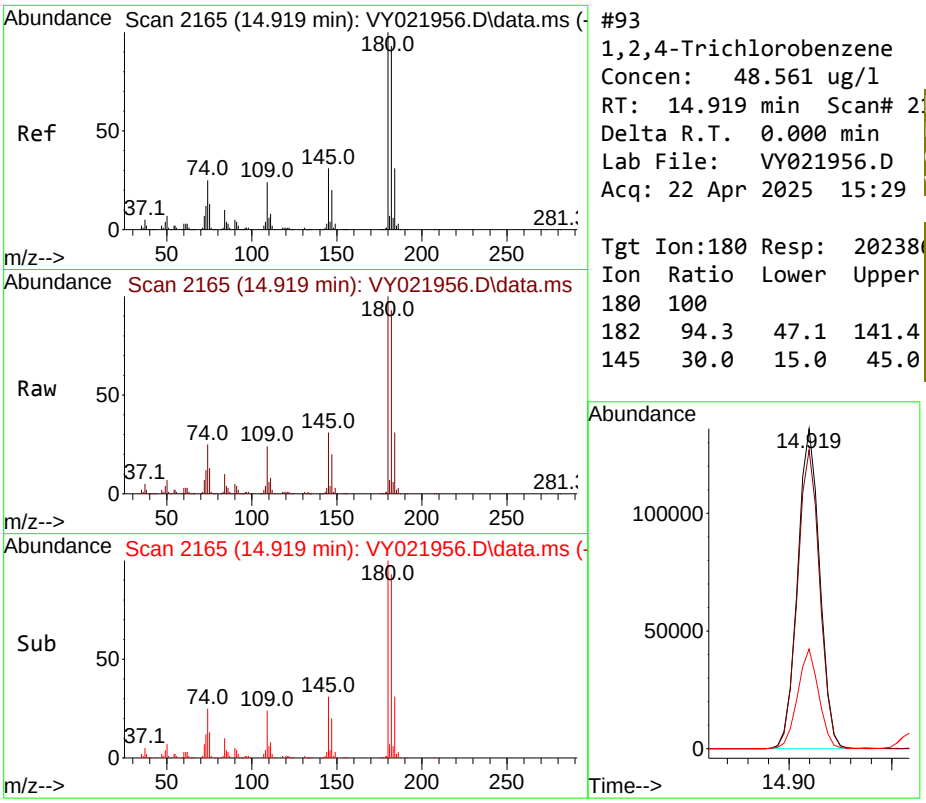


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.964 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion: 75 Resp: 20698

Ion	Ratio	Lower	Upper
75	100		
155	101.5	50.7	152.3
157	125.2	62.6	187.8





#93
1,2,4-Trichlorobenzene
Concen: 48.561 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:180 Resp: 20238

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	30.0	15.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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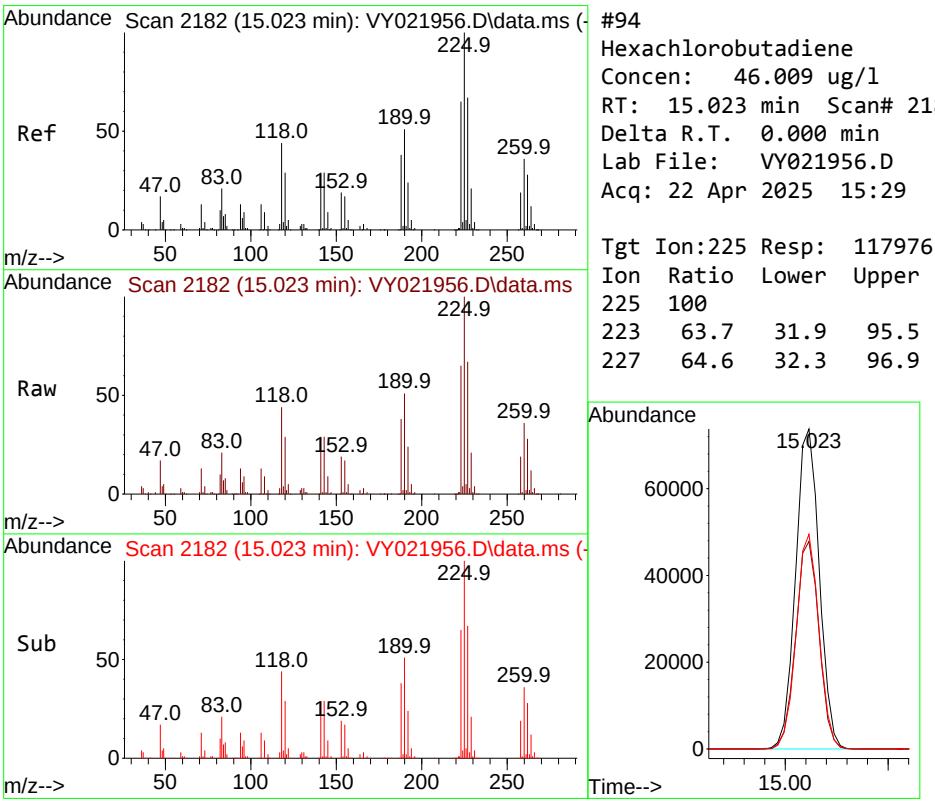
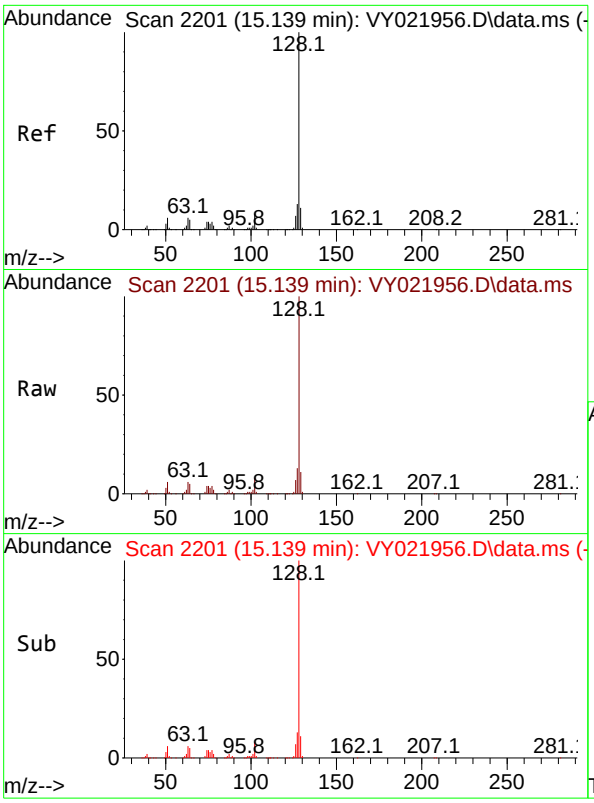
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#94
Hexachlorobutadiene
Concen: 46.009 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:225 Resp: 117976

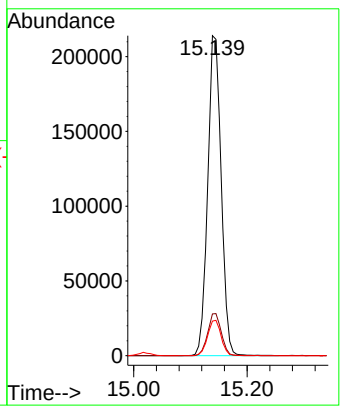
Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.5
227	64.6	32.3	96.9



#95
Naphthalene
Concen: 51.007 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:128 Resp: 35313

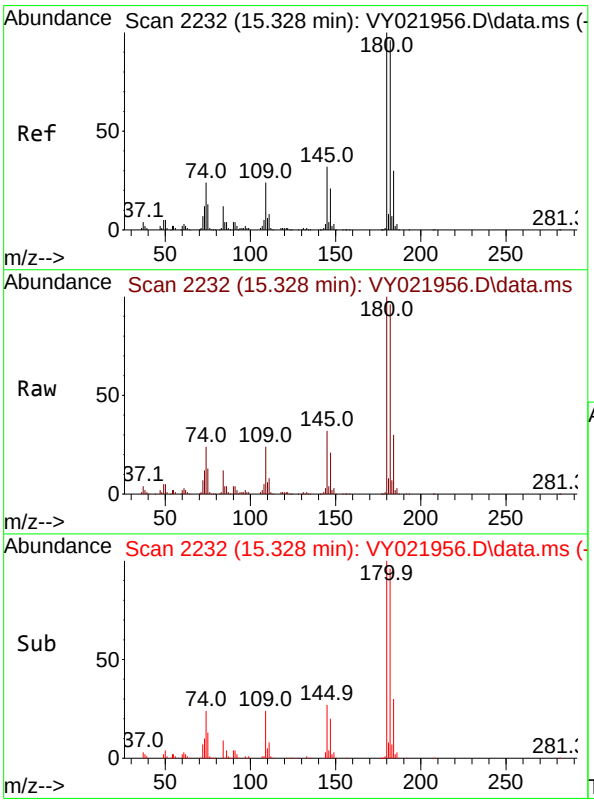
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

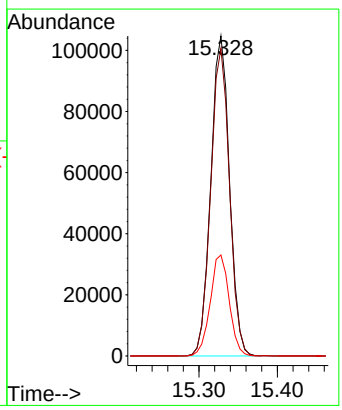
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.304 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021956.D
Acq: 22 Apr 2025 15:29

Tgt Ion:180 Resp: 173778

Ion	Ratio	Lower	Upper
180	100		
182	96.3	48.1	144.4
145	32.0	16.0	48.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	344392	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	517970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	479774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	253936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	287743	90.454	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 180.900%#			
35) Dibromofluoromethane	7.634	113	329983	96.430	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 192.860%#			
50) Toluene-d8	10.103	98	1288287	99.860	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 199.720%#			
62) 4-Bromofluorobenzene	12.402	95	437911	100.832	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 201.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	280742	95.668	ug/l	99
3) Chloromethane	2.068	50	364659	87.270	ug/l	99
4) Vinyl Chloride	2.202	62	468044	91.152	ug/l	100
5) Bromomethane	2.586	94	381632	86.267	ug/l	98
6) Chloroethane	2.733	64	317008	90.651	ug/l	98
7) Trichlorofluoromethane	3.050	101	634632	93.728	ug/l	97
8) Diethyl Ether	3.452	74	169496	96.177	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	342220	93.171	ug/l	99
10) Methyl Iodide	4.001	142	448644	105.498	ug/l	100
11) Tert butyl alcohol	4.872	59	79446	454.915	ug/l	97
12) 1,1-Dichloroethene	3.787	96	335292	97.935	ug/l	98
13) Acrolein	3.647	56	137299	438.034	ug/l	97
14) Allyl chloride	4.379	41	395924	99.318	ug/l	99
15) Acrylonitrile	5.055	53	303243	470.017	ug/l	100
16) Acetone	3.873	43	198486	497.873	ug/l	92
17) Carbon Disulfide	4.104	76	1044296	95.665	ug/l	99
18) Methyl Acetate	4.385	43	142939	96.193	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	785760	102.542	ug/l	97
20) Methylene Chloride	4.610	84	356477	88.623	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	376278	98.137	ug/l	97
22) Diisopropyl ether	6.019	45	895700	100.965	ug/l	98
23) Vinyl Acetate	5.958	43	2455946	513.679	ug/l	99
24) 1,1-Dichloroethane	5.909	63	589137	95.806	ug/l	98
25) 2-Butanone	6.890	43	342128	471.826	ug/l	99
26) 2,2-Dichloropropane	6.884	77	530549	98.439	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	436196	101.743	ug/l	100
28) Bromochloromethane	7.244	49	221300	92.652	ug/l	97
29) Tetrahydrofuran	7.262	42	228438	485.059	ug/l	96
30) Chloroform	7.421	83	659805	96.733	ug/l	100
31) Cyclohexane	7.701	56	502812	95.618	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	595919	96.568	ug/l	99
36) 1,1-Dichloropropene	7.835	75	466424	101.471	ug/l	99
37) Ethyl Acetate	6.982	43	158846	97.530	ug/l	98
38) Carbon Tetrachloride	7.817	117	554665	100.983	ug/l	97
39) Methylcyclohexane	9.109	83	621199	107.388	ug/l	98
40) Benzene	8.079	78	1466182	102.038	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 23 02:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	84524	93.624	ug/l	#	89
42) 1,2-Dichloroethane	8.158	62	348314	97.908	ug/l		100
43) Isopropyl Acetate	8.195	43	319666	100.828	ug/l		98
44) Trichloroethene	8.866	130	401139	100.789	ug/l		99
45) 1,2-Dichloropropane	9.140	63	318648	100.279	ug/l		99
46) Dibromomethane	9.231	93	197509	99.293	ug/l		99
47) Bromodichloromethane	9.420	83	507797	102.188	ug/l		99
48) Methyl methacrylate	9.219	41	155528	106.117	ug/l		97
49) 1,4-Dioxane	9.231	88	43176	2036.490	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	859904	517.403	ug/l		99
52) Toluene	10.170	92	986553	106.068	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	452714	106.213	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	532092	105.017	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	267477	100.667	ug/l		99
56) Ethyl methacrylate	10.438	69	343556	113.068	ug/l		100
57) 1,3-Dichloropropane	10.713	76	432340	101.498	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	796991	536.469	ug/l		99
59) 2-Hexanone	10.762	43	573925	523.558	ug/l		99
60) Dibromochloromethane	10.908	129	380014	103.302	ug/l		99
61) 1,2-Dibromoethane	11.012	107	256079	102.087	ug/l		98
64) Tetrachloroethene	10.646	164	446995	98.761	ug/l		99
65) Chlorobenzene	11.438	112	1092542	101.831	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	384924	101.907	ug/l		99
67) Ethyl Benzene	11.518	91	1909638	108.806	ug/l		100
68) m/p-Xylenes	11.627	106	1528954	218.926	ug/l		98
69) o-Xylene	11.956	106	716652	111.334	ug/l		99
70) Styrene	11.969	104	1220634	112.940	ug/l		99
71) Bromoform	12.133	173	226072	102.945	ug/l	#	98
73) Isopropylbenzene	12.255	105	1848306	108.944	ug/l		99
74) N-amyl acetate	12.066	43	312577	107.236	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	281769	98.509	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	207056m	92.537	ug/l		
77) Bromobenzene	12.530	156	451913	105.415	ug/l		98
78) n-propylbenzene	12.597	91	2162620	107.039	ug/l		99
79) 2-Chlorotoluene	12.676	91	1236457	105.231	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1512269	108.183	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	91833	101.673	ug/l		97
82) 4-Chlorotoluene	12.773	91	1280377	104.825	ug/l		99
83) tert-Butylbenzene	12.993	119	1383923	110.389	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1537175	109.940	ug/l		99
85) sec-Butylbenzene	13.176	105	1979821	107.920	ug/l		100
86) p-Isopropyltoluene	13.292	119	1719877	110.405	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	908577	104.350	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	880300	102.083	ug/l		99
89) n-Butylbenzene	13.615	91	1511238	108.535	ug/l		99
90) Hexachloroethane	13.877	117	349860	102.221	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	780600	102.789	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43006	94.503	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	492590	114.465	ug/l		100
94) Hexachlorobutadiene	15.023	225	281711	106.397	ug/l		99
95) Naphthalene	15.145	128	858079	120.033	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	420859	113.294	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 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\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 23 02:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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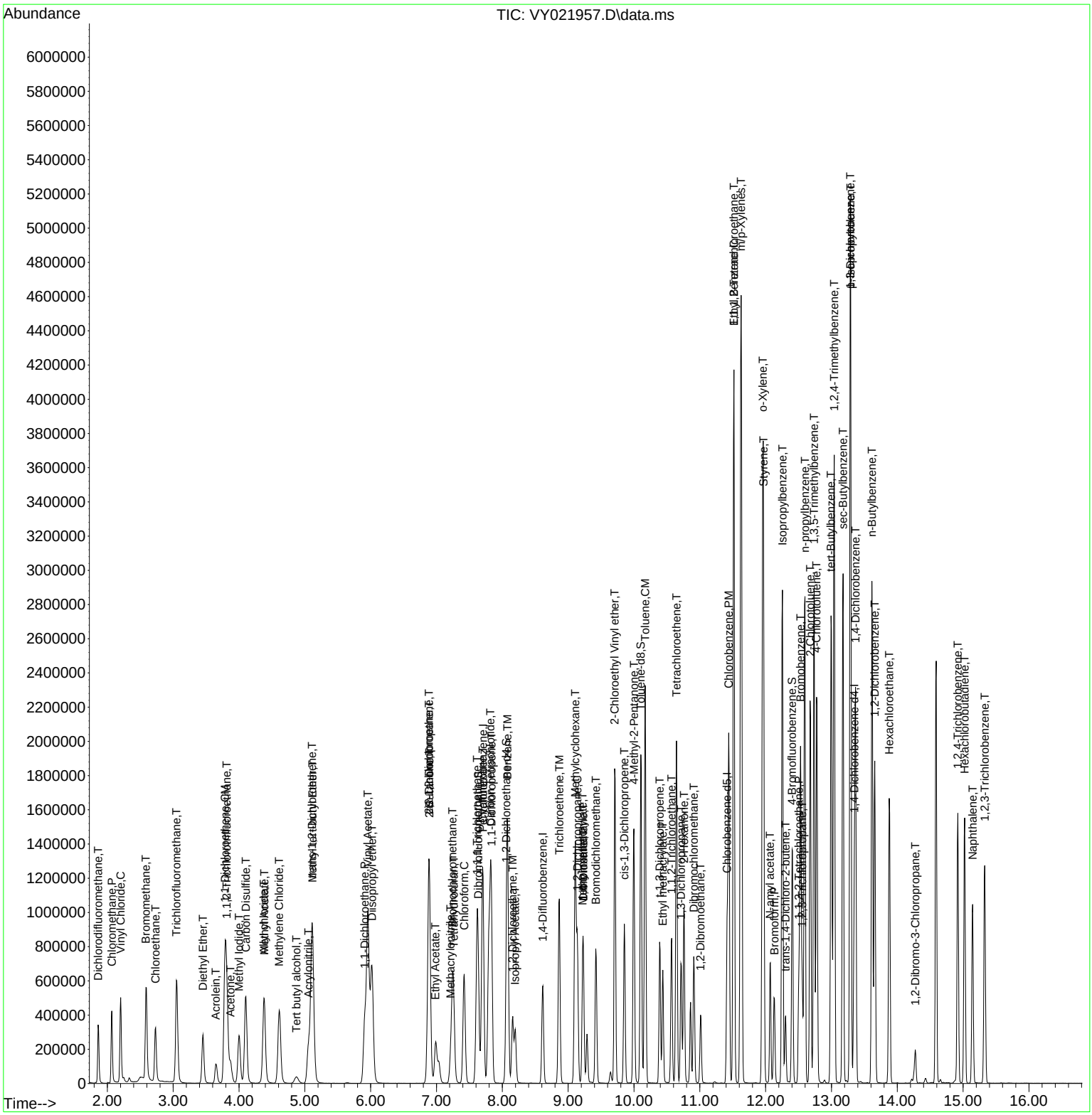

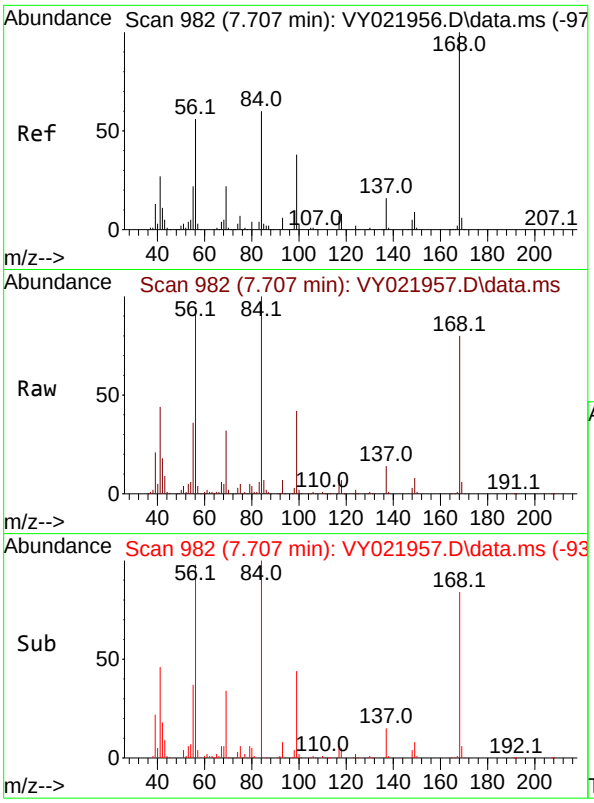

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:168 Resp: 34439

Ion	Ratio	Lower	Upper
168	100		
99	52.1	43.1	64.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
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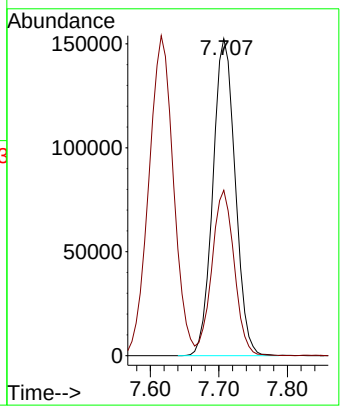
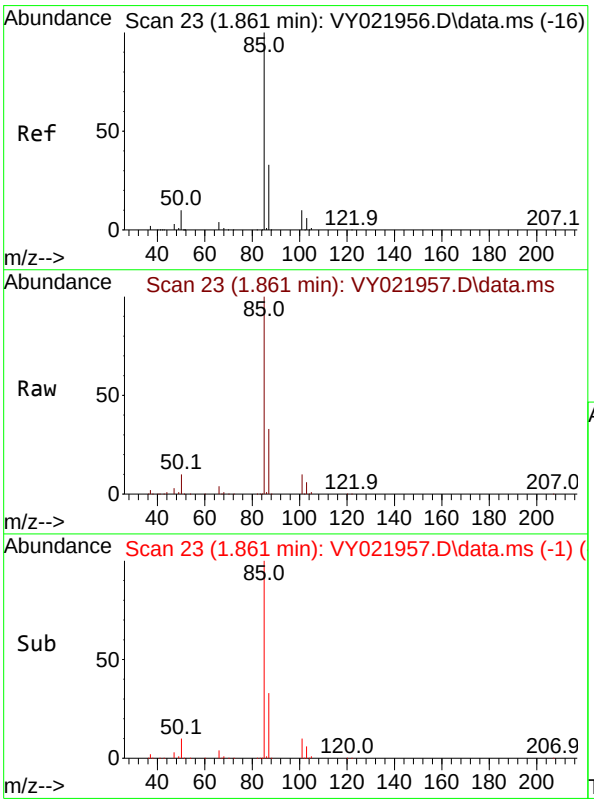
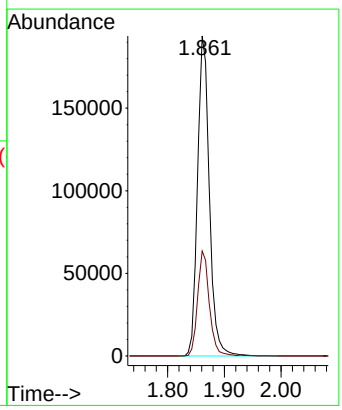


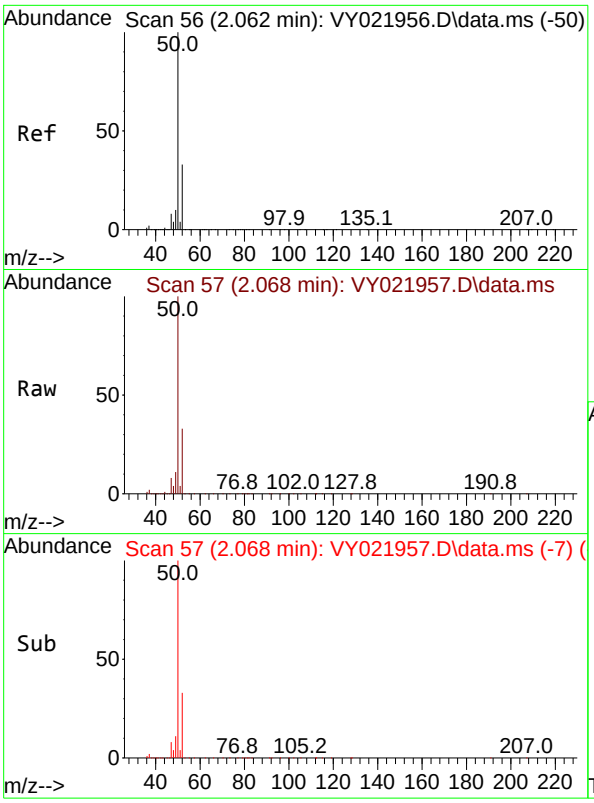


#2
Dichlorodifluoromethane
Concen: 95.668 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 85 Resp: 280742

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.6	49.7

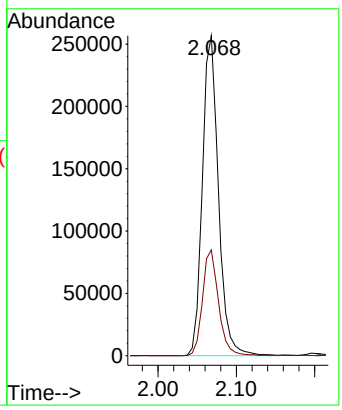




#3
Chloromethane
Concen: 87.270 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 50 Resp: 36465

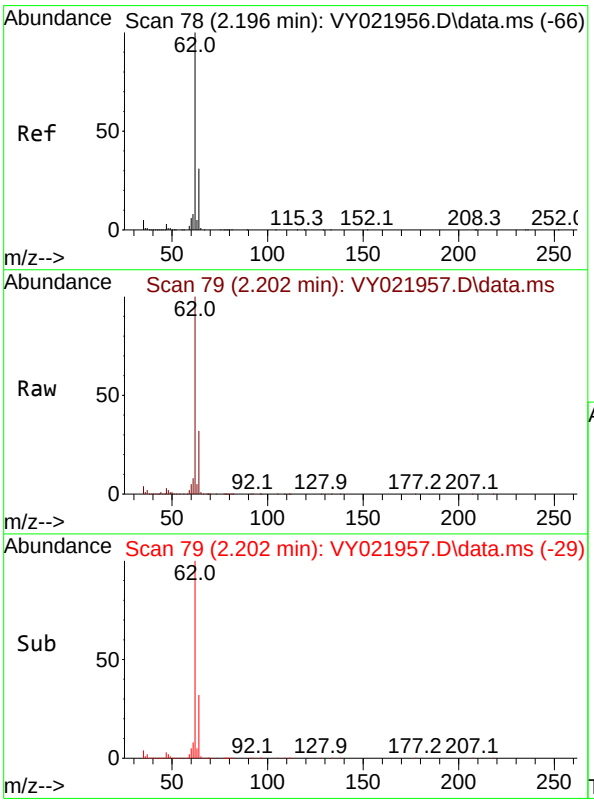
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

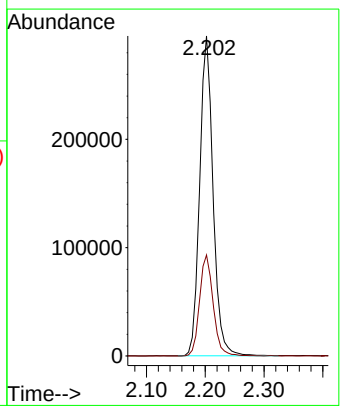
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

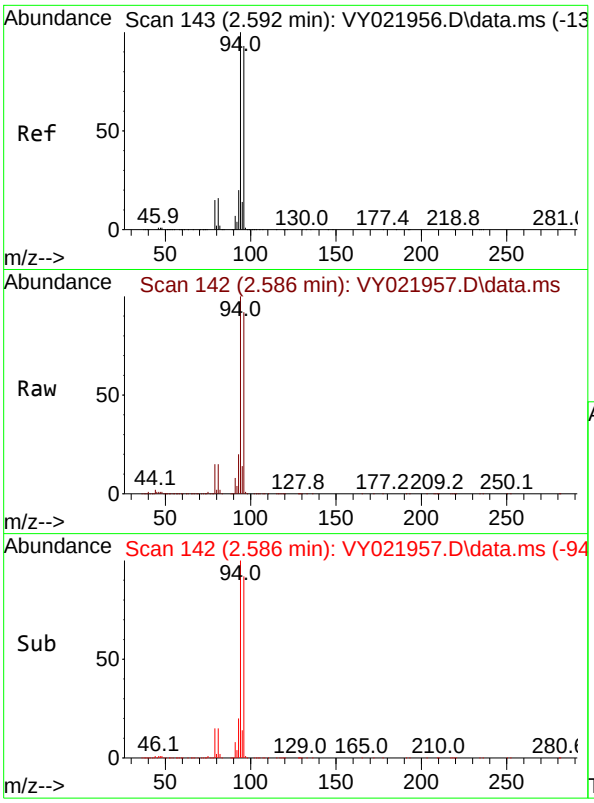


#4
Vinyl Chloride
Concen: 91.152 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 62 Resp: 468044

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.1	37.7

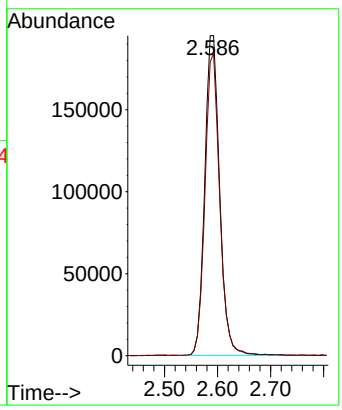




#5
Bromomethane
Concen: 86.267 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 94 Resp: 38163

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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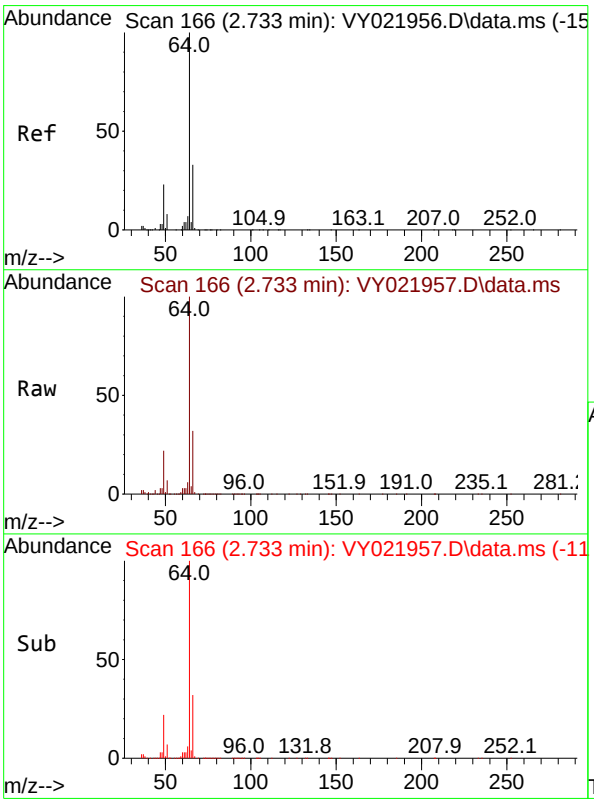
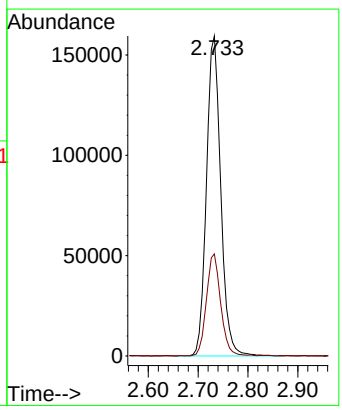
Supervised By :Mahesh Dadoda 04/23/2025

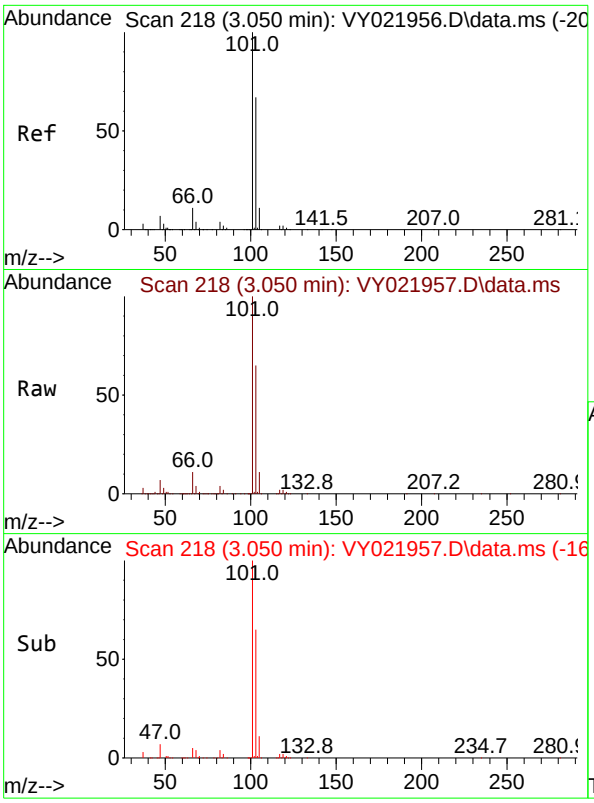


#6
Chloroethane
Concen: 90.651 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 64 Resp: 317008

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.2	39.4





#7
Trichlorofluoromethane
Concen: 93.728 ug/l
RT: 3.050 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

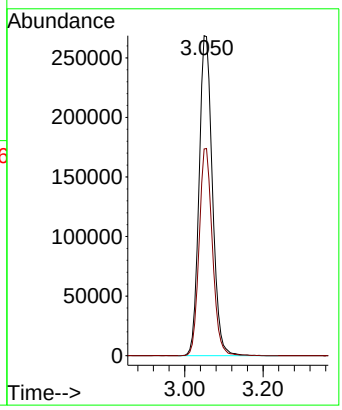
Tgt Ion:101 Resp: 63463

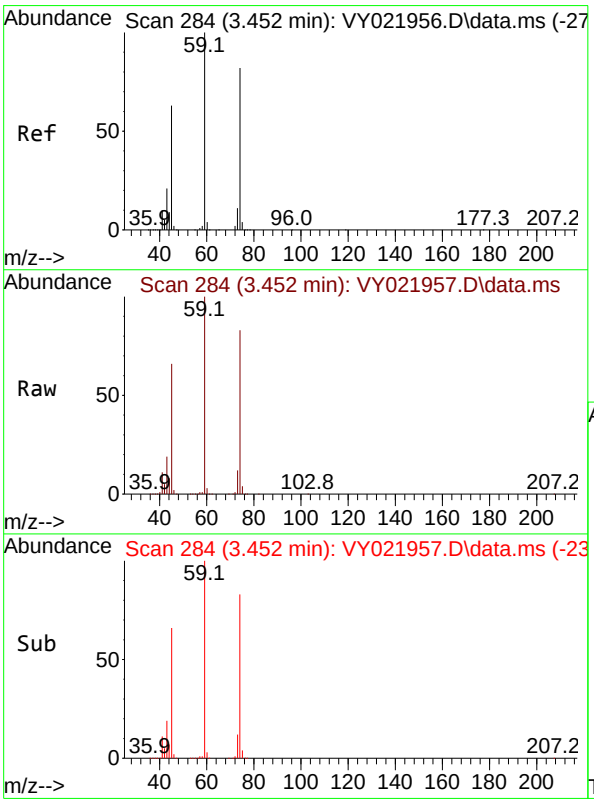
Ion	Ratio	Lower	Upper
101	100		
103	64.6	53.6	80.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

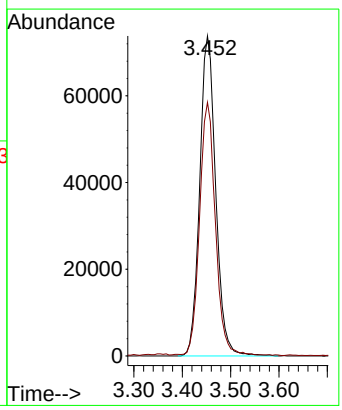


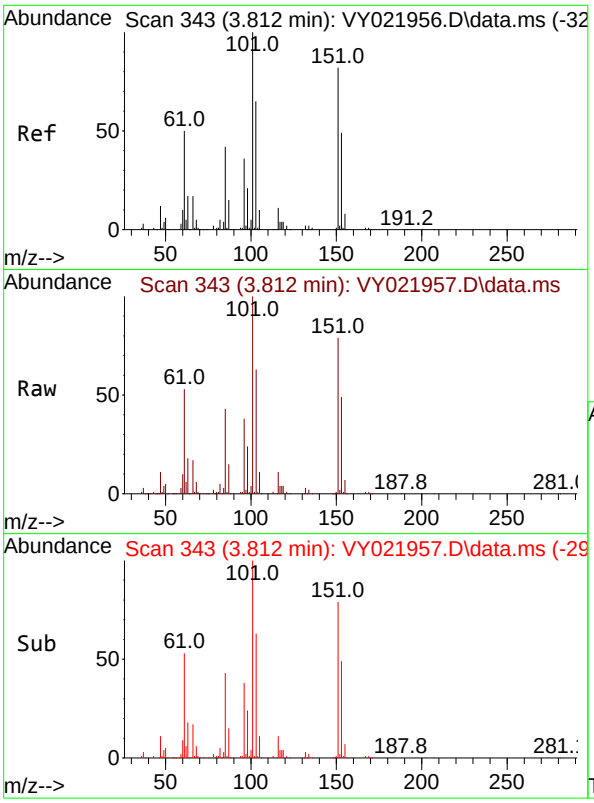


#8
Diethyl Ether
Concen: 96.177 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 74 Resp: 169496

Ion	Ratio	Lower	Upper
74	100		
45	77.7	39.1	117.5

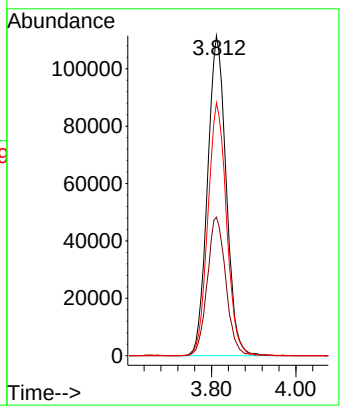




#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.171 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:101 Resp: 34222

Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	78.9	63.7	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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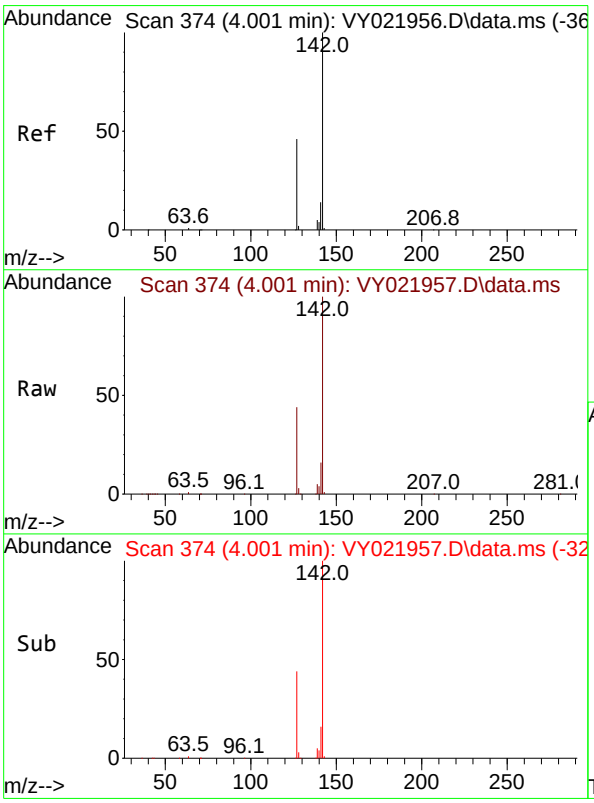
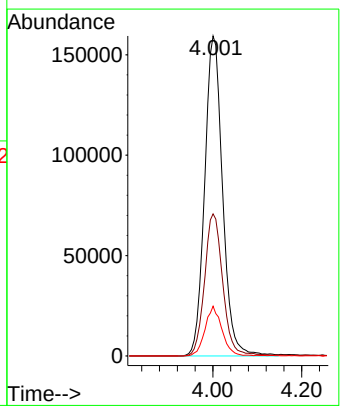
Supervised By :Mahesh Dadoda 04/23/2025

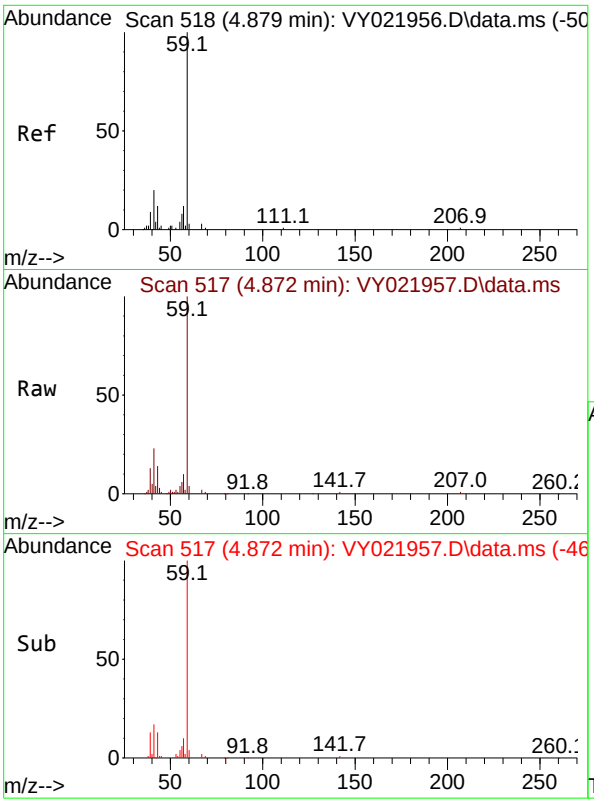


#10
Methyl Iodide
Concen: 105.498 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:142 Resp: 448644

Ion	Ratio	Lower	Upper
142	100		
127	45.0	36.2	54.2
141	14.6	11.7	17.5

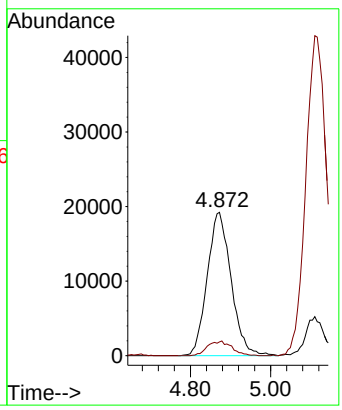




#11
Tert butyl alcohol
Concen: 454.915 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 59 Resp: 7944

Ion	Ratio	Lower	Upper
59	100		
57	10.4	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/23/2025
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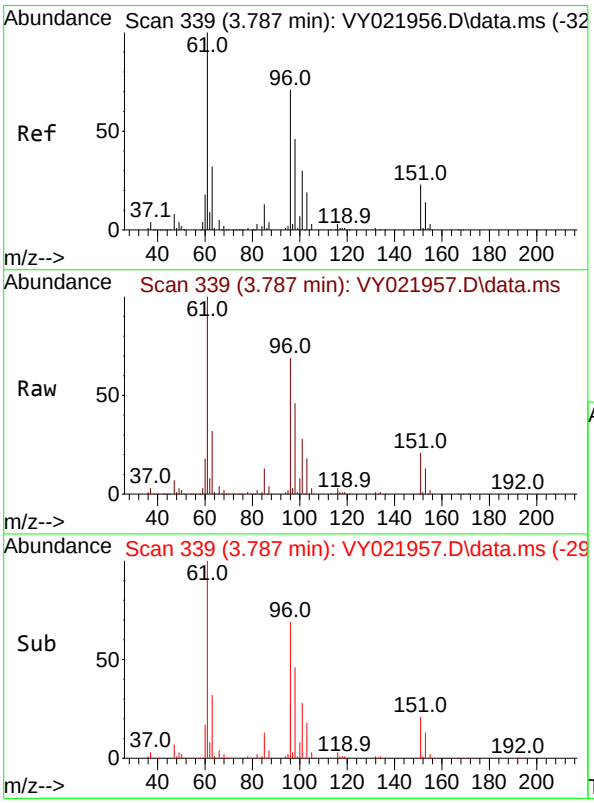
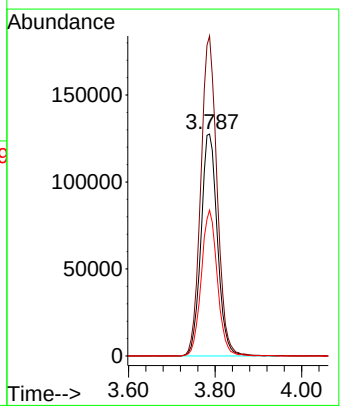
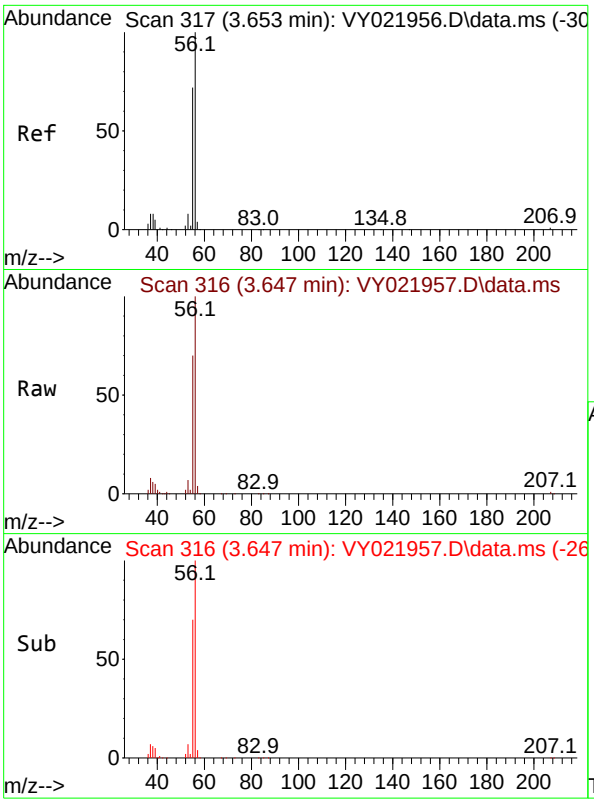


#12
1,1-Dichloroethene
Concen: 97.935 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 96 Resp: 335292

Ion	Ratio	Lower	Upper
96	100		
61	144.2	113.0	169.4
98	65.7	51.4	77.2

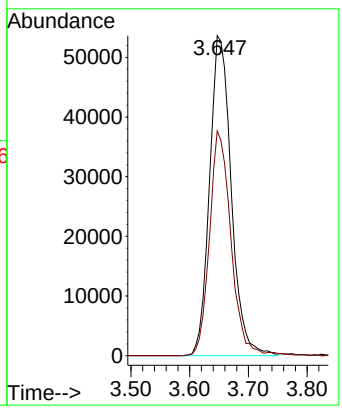




#13
Acrolein
Concen: 438.034 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 56 Resp: 13729

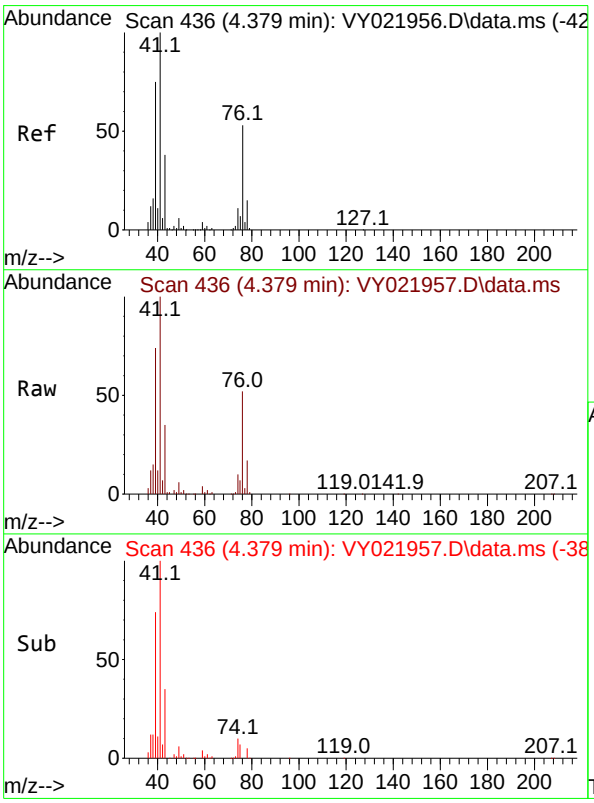
Ion	Ratio	Lower	Upper
56	100		
55	69.1	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

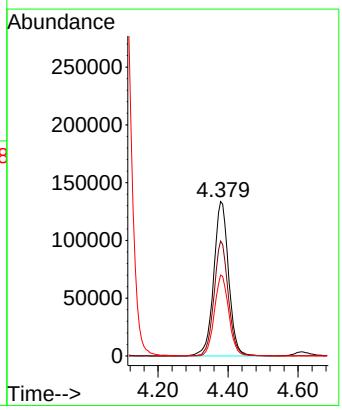
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

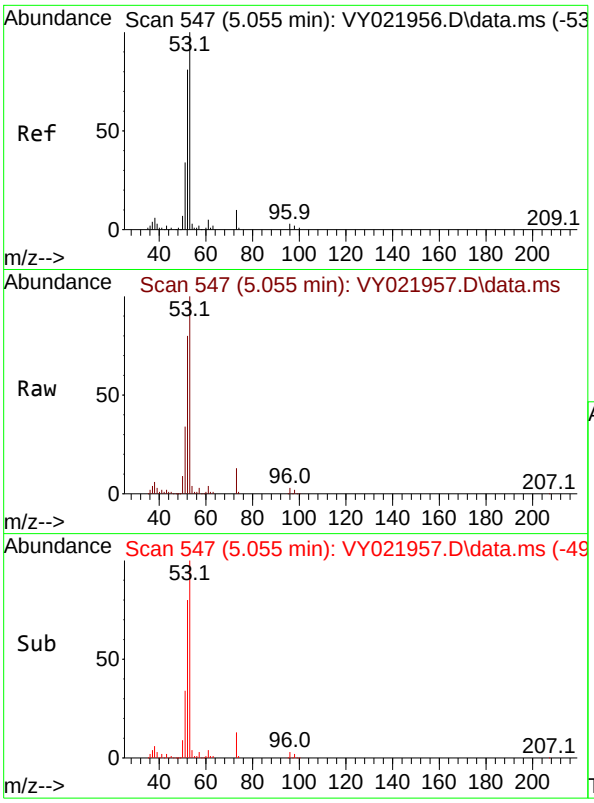


#14
Allyl chloride
Concen: 99.318 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 41 Resp: 395924

Ion	Ratio	Lower	Upper
41	100		
39	71.7	57.2	85.8
76	50.5	39.7	59.5

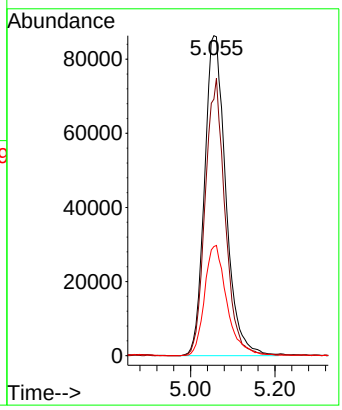




#15
Acrylonitrile
Concen: 470.017 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 53 Resp: 30324

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.0	97.6
51	36.1	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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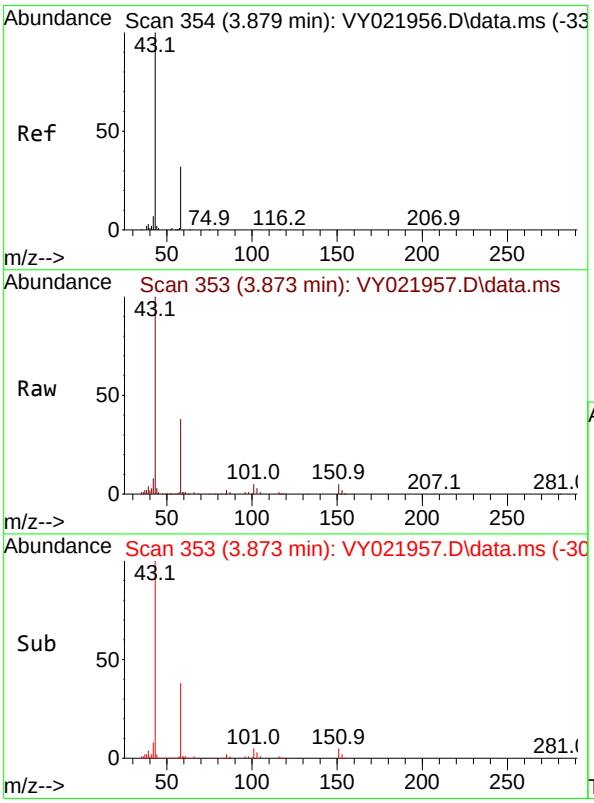
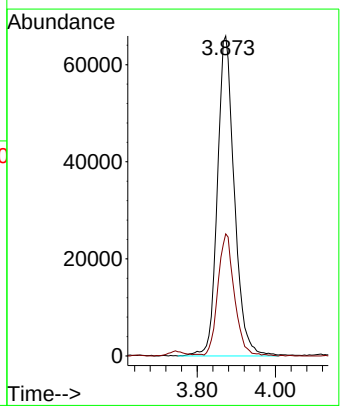
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

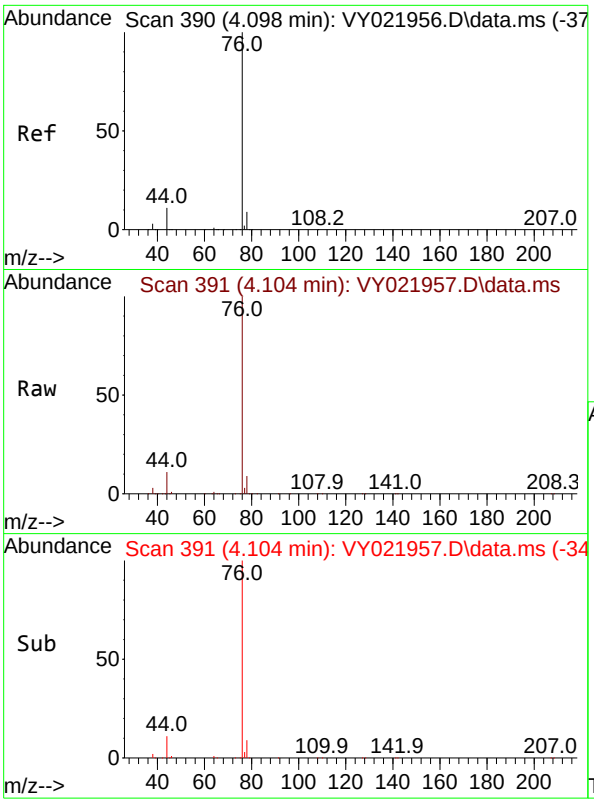


#16
Acetone
Concen: 497.873 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 198486

Ion	Ratio	Lower	Upper
43	100		
58	38.2	27.0	40.4

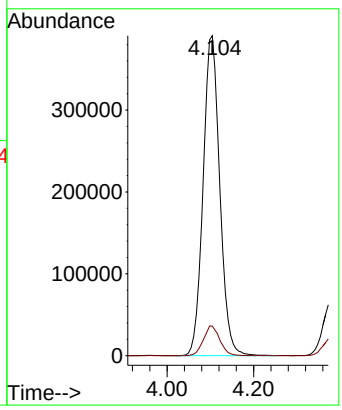




#17
Carbon Disulfide
Concen: 95.665 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 76 Resp: 104429

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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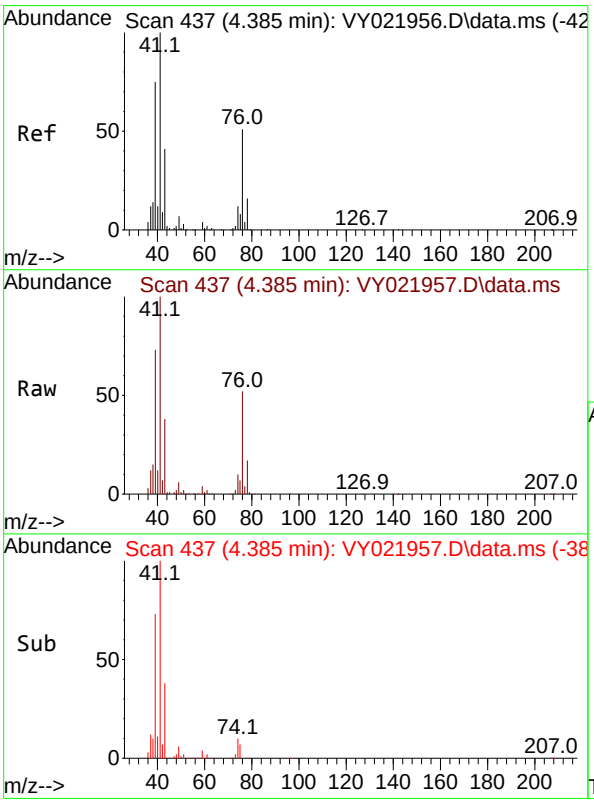
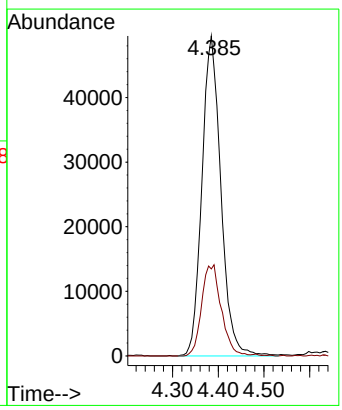
Supervised By :Mahesh Dadoda 04/23/2025

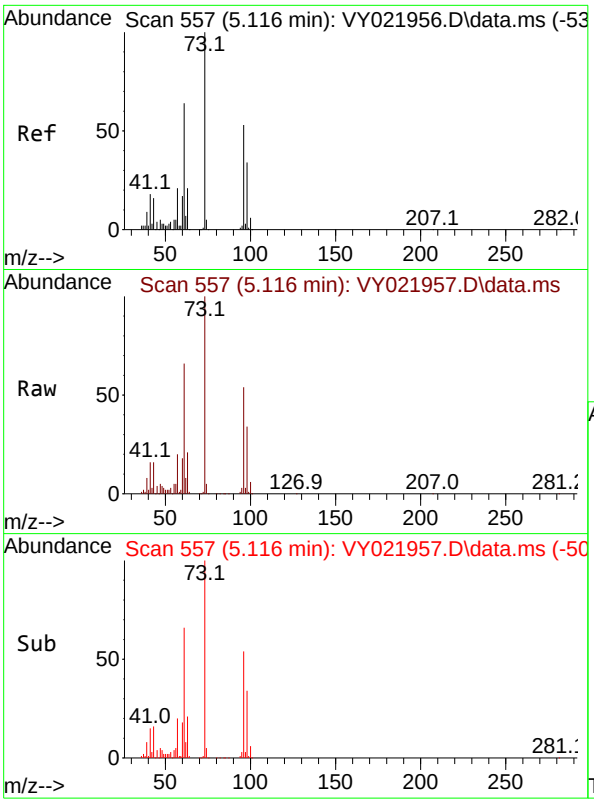


#18
Methyl Acetate
Concen: 96.193 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 142939

Ion	Ratio	Lower	Upper
43	100		
74	29.5	24.2	36.4

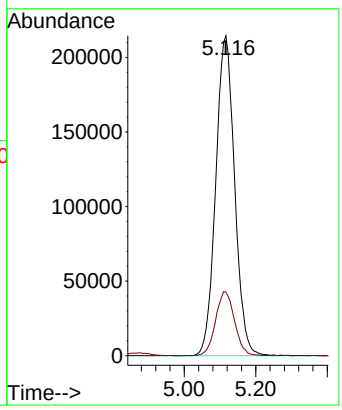




#19
Methyl tert-butyl Ether
Concen: 102.542 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 73 Resp: 78576

Ion	Ratio	Lower	Upper
73	100		
57	19.9	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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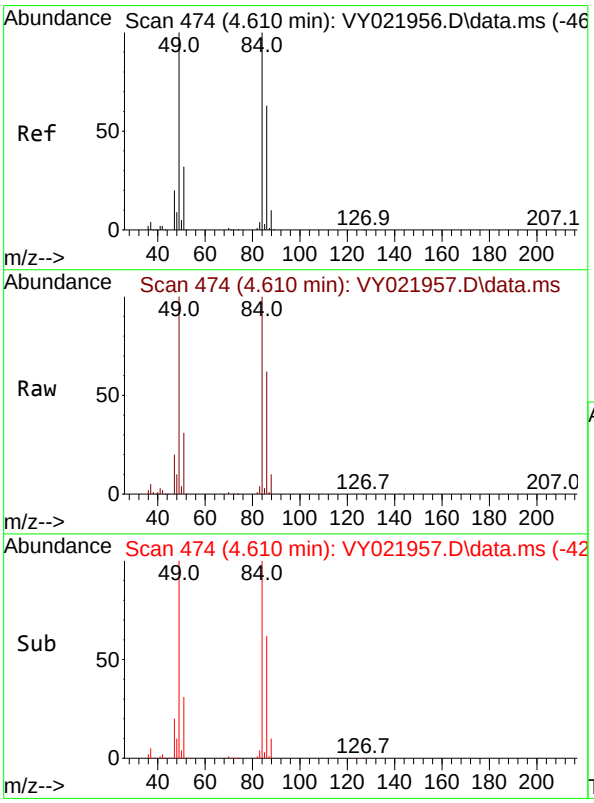
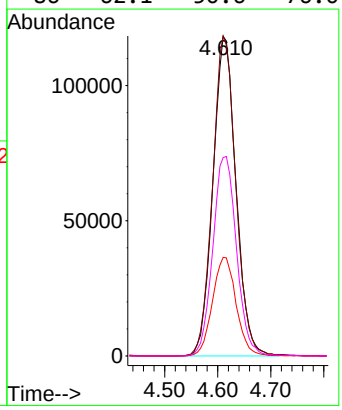
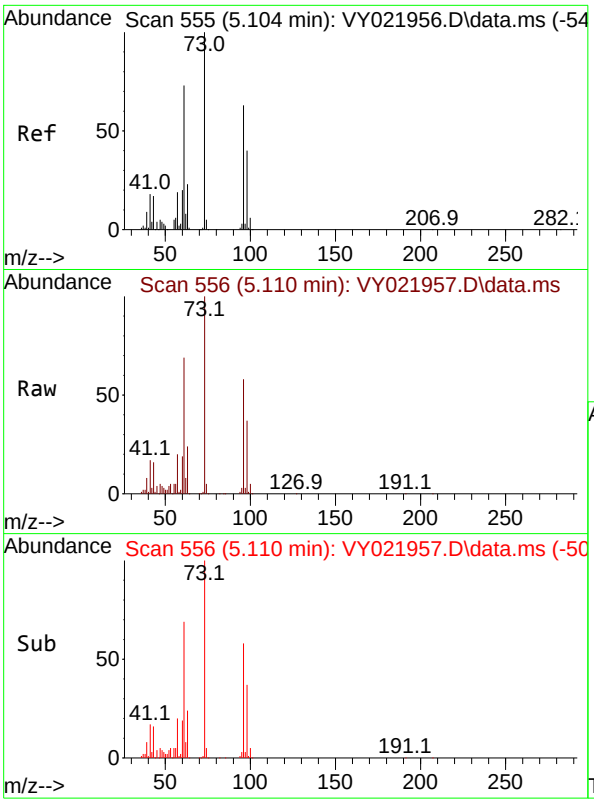


#20
Methylene Chloride
Concen: 88.623 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 84 Resp: 356477

Ion	Ratio	Lower	Upper
84	100		
49	100.1	79.9	119.9
51	30.8	25.4	38.0
86	62.1	50.6	76.0

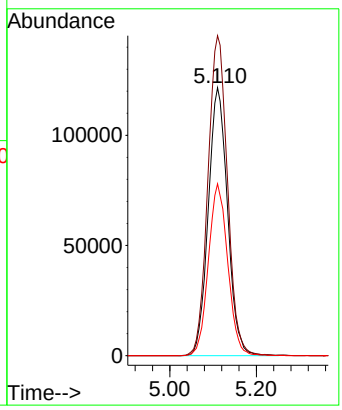




#21
trans-1,2-Dichloroethene
Concen: 98.137 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 96 Resp: 37627

Ion	Ratio	Lower	Upper
96	100		
61	119.4	92.6	138.8
98	64.1	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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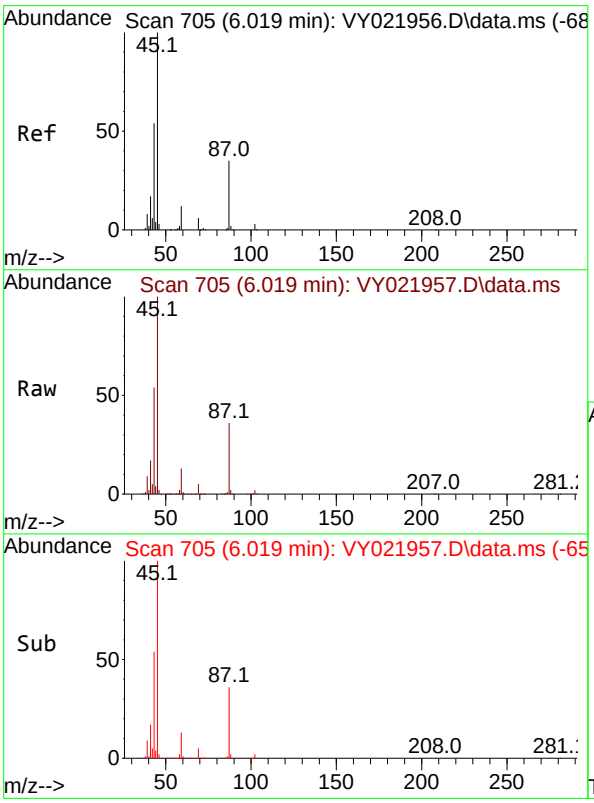
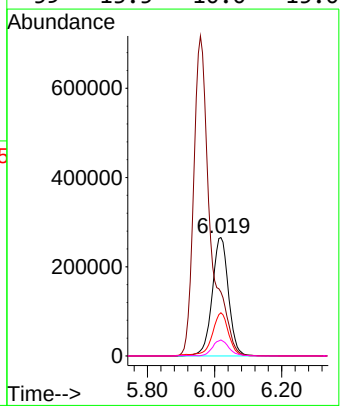
Supervised By :Mahesh Dadoda 04/23/2025

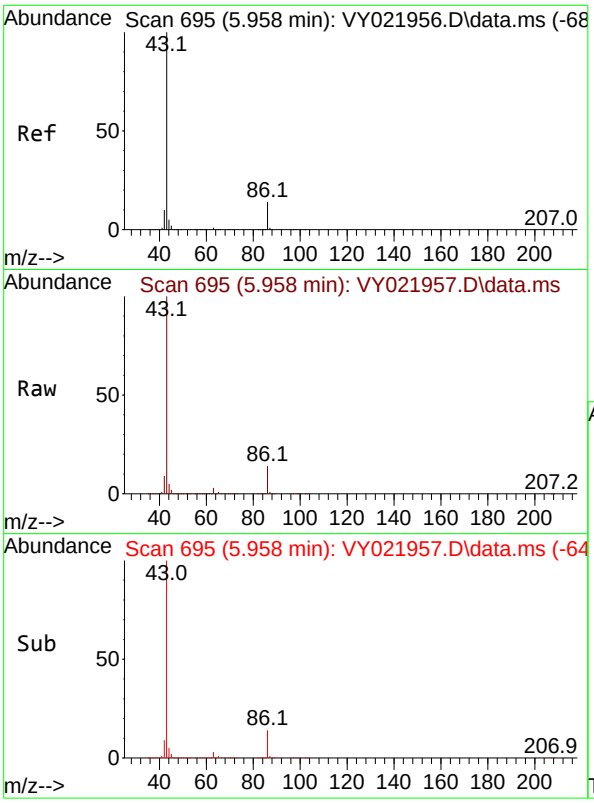


#22
Diisopropyl ether
Concen: 100.965 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 45 Resp: 895700

Ion	Ratio	Lower	Upper
45	100		
43	53.8	43.6	65.4
87	36.5	28.2	42.4
59	13.5	10.0	15.0

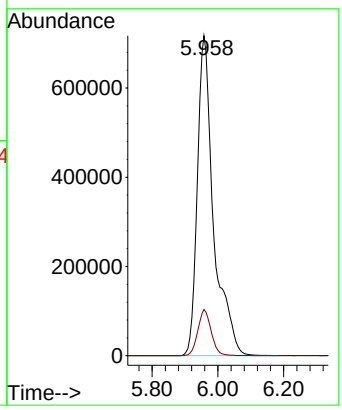




#23
Vinyl Acetate
Concen: 513.679 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 245594

Ion	Ratio	Lower	Upper
43	100		
86	14.5	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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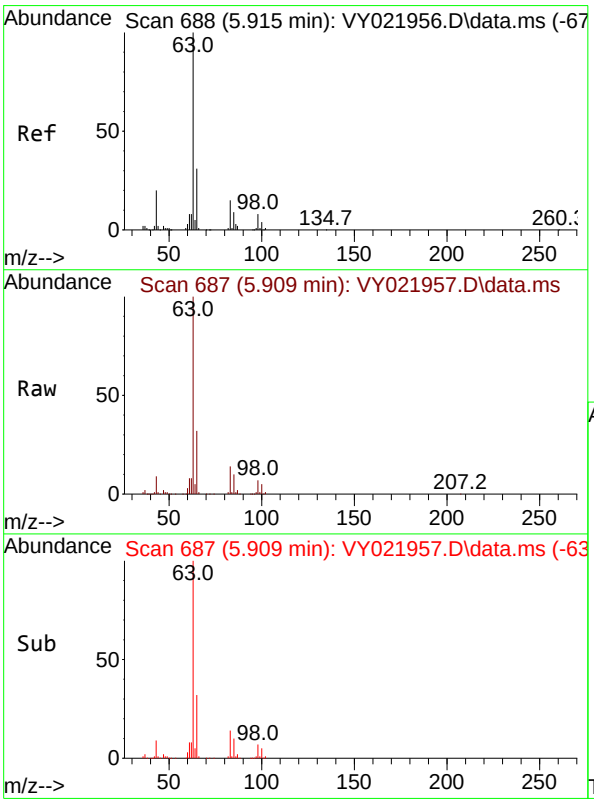
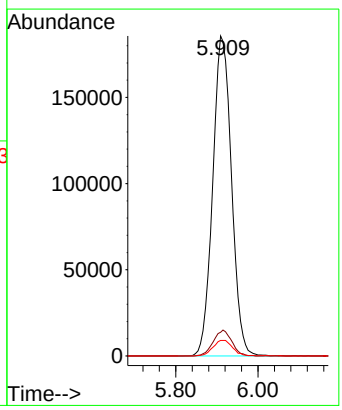
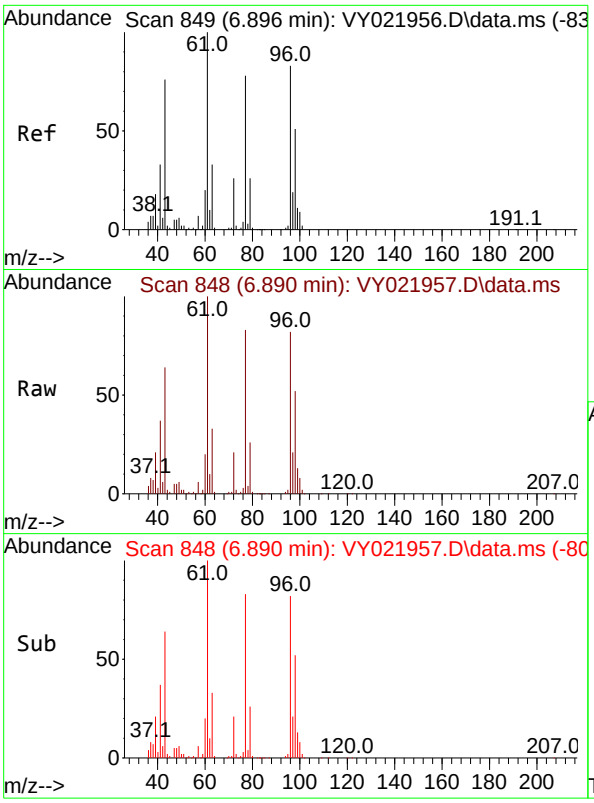


#24
1,1-Dichloroethane
Concen: 95.806 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 63 Resp: 589137

Ion	Ratio	Lower	Upper
63	100		
98	7.4	4.0	11.9
100	4.8	2.0	6.0

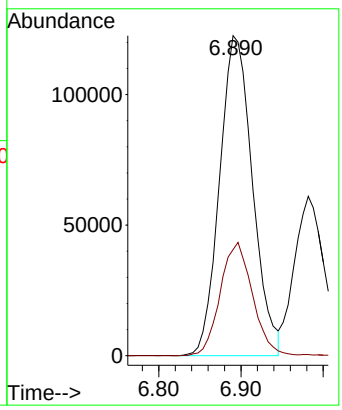




#25
2-Butanone
Concen: 471.826 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 34212

Ion	Ratio	Lower	Upper
43	100		
72	33.2	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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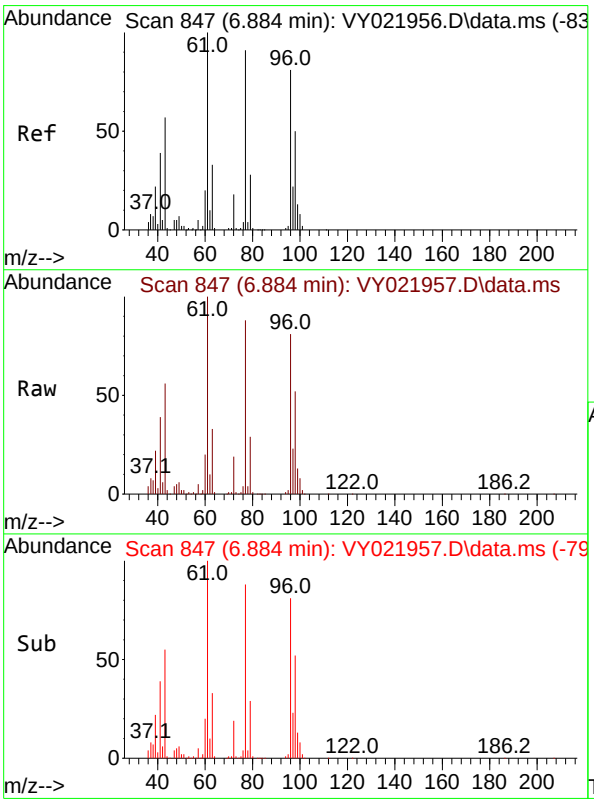
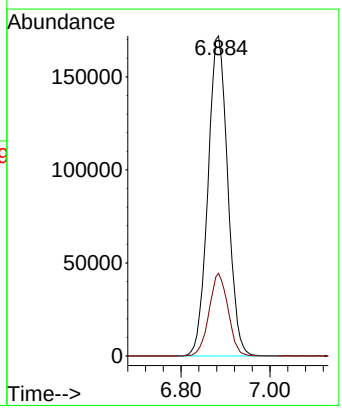
Supervised By :Mahesh Dadoda 04/23/2025

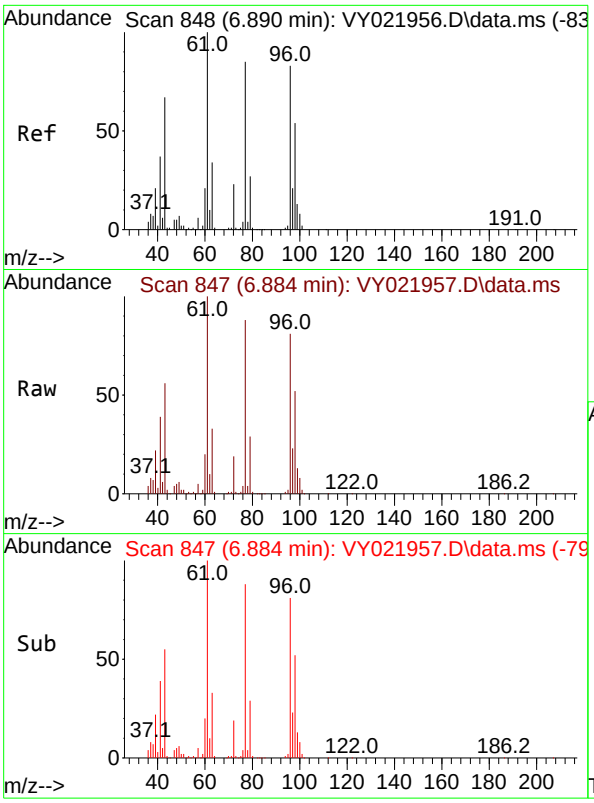


#26
2,2-Dichloropropane
Concen: 98.439 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 77 Resp: 530549

Ion	Ratio	Lower	Upper
77	100		
97	24.8	12.4	37.4

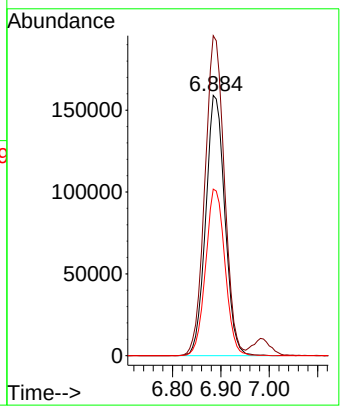




#27
cis-1,2-Dichloroethene
Concen: 101.743 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 96 Resp: 43619

Ion	Ratio	Lower	Upper
96	100		
61	125.5	0.0	251.4
98	64.8	0.0	128.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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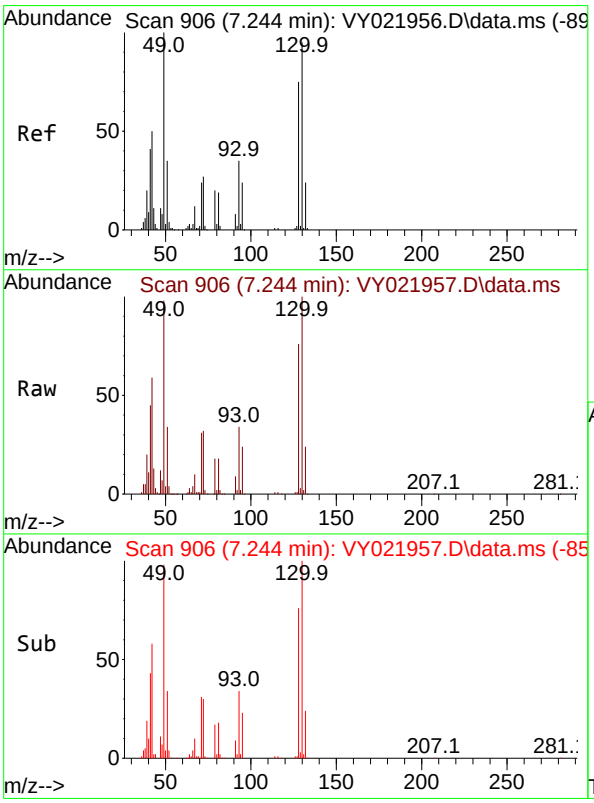
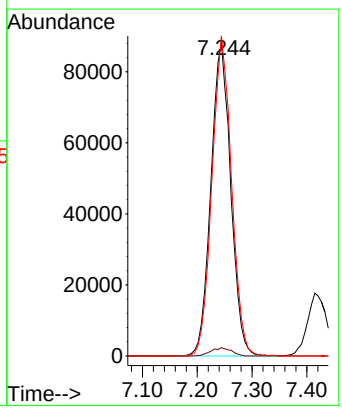
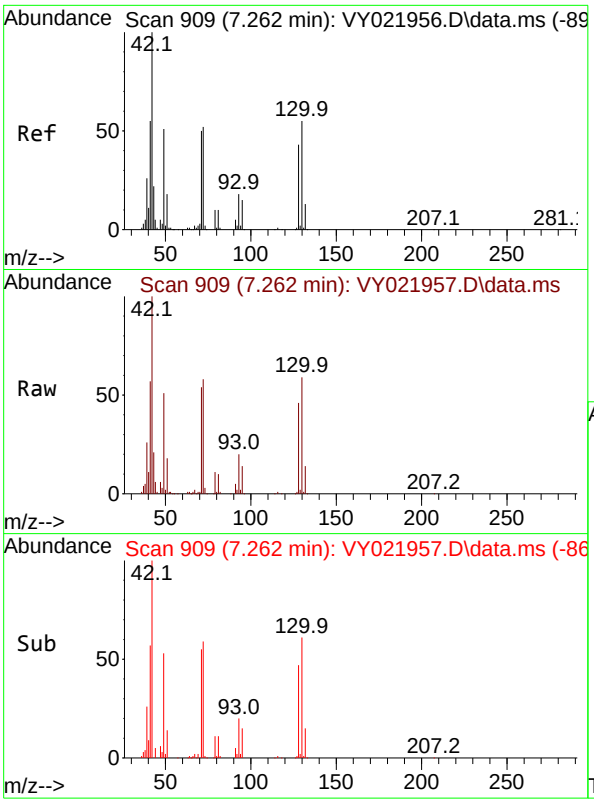


#28
Bromochloromethane
Concen: 92.652 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 49 Resp: 221300

Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	5.0
130	100.7	78.2	117.4

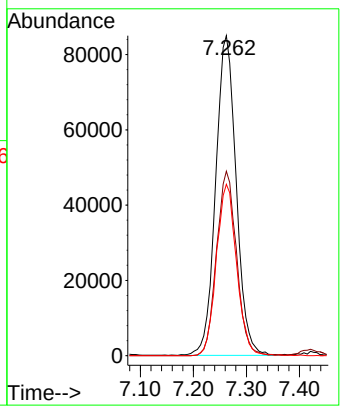




#29
Tetrahydrofuran
Concen: 485.059 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 42 Resp: 22843

Ion	Ratio	Lower	Upper
42	100		
72	56.3	42.6	63.8
71	52.8	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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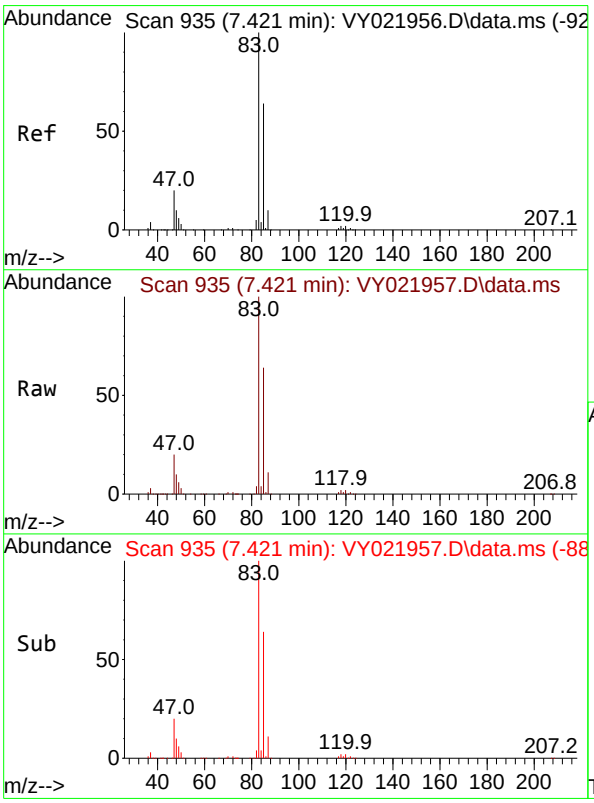
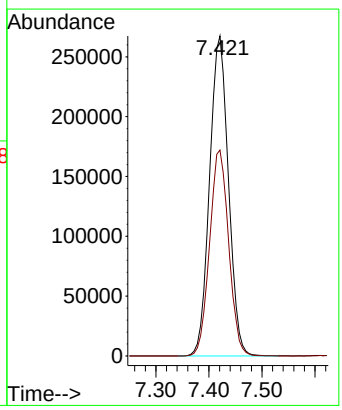
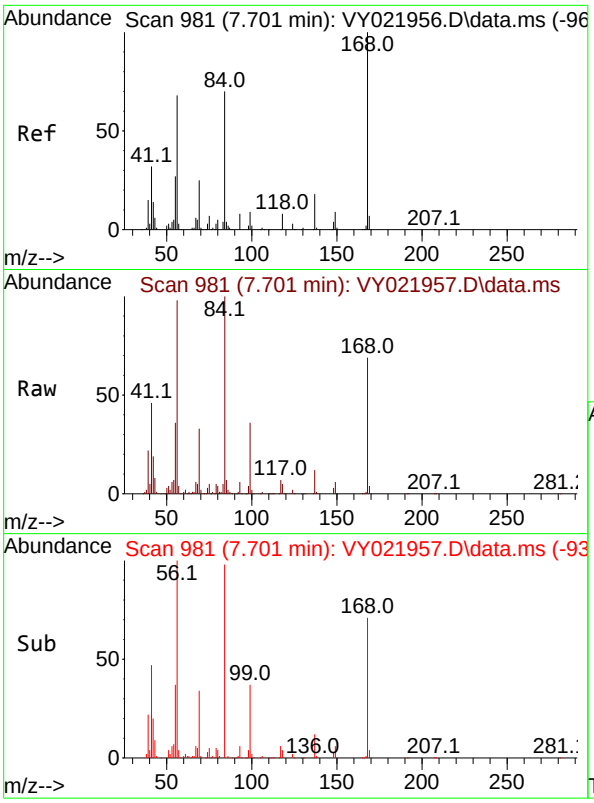


#30
Chloroform
Concen: 96.733 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 83 Resp: 659805

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.3	76.9

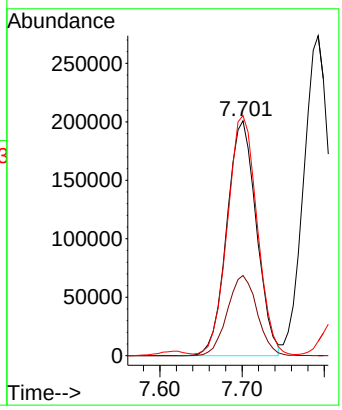




#31
Cyclohexane
Concen: 95.618 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 56 Resp: 50281

Ion	Ratio	Lower	Upper
56	100		
69	34.1	29.4	44.2
84	100.3	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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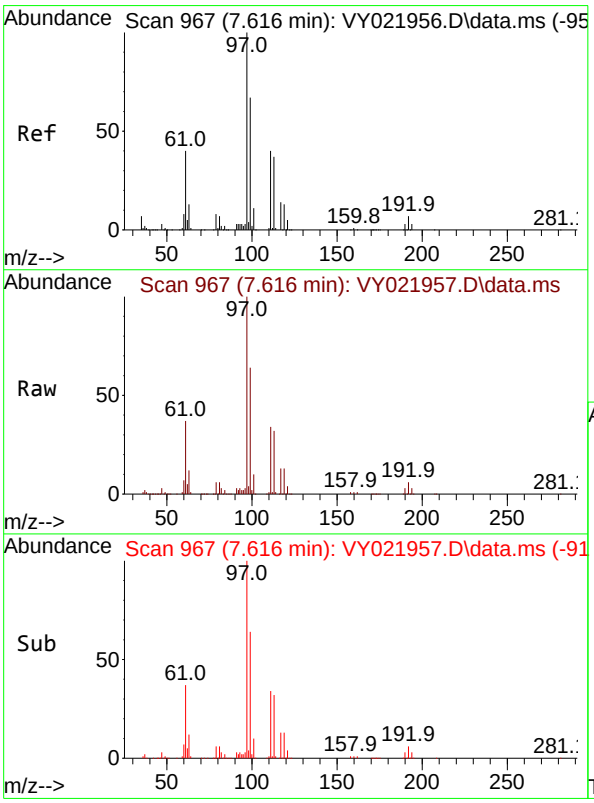
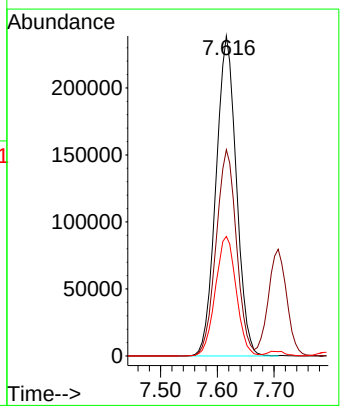
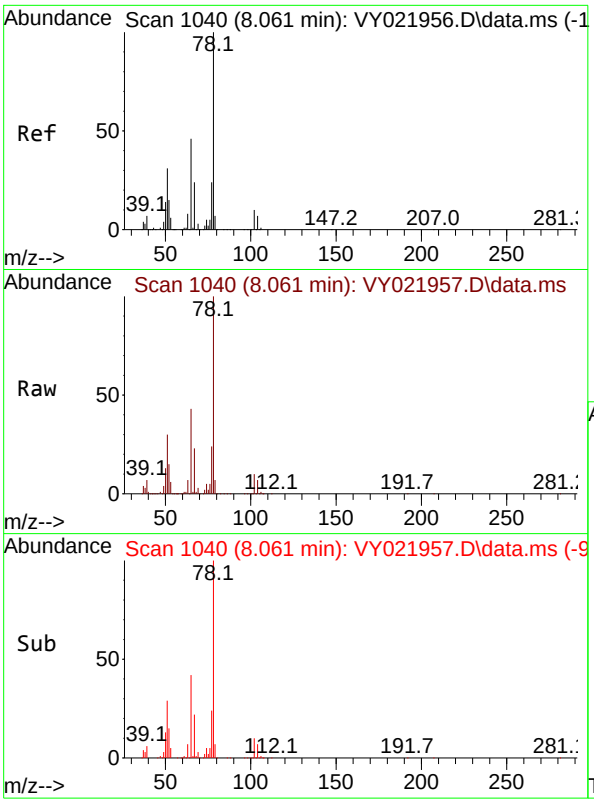


#32
1,1,1-Trichloroethane
Concen: 96.568 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 97 Resp: 595919

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.4	77.2
61	38.4	31.4	47.2

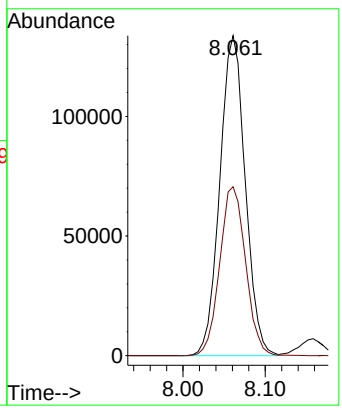




#33
1,2-Dichloroethane-d4
Concen: 90.454 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 65 Resp: 28774

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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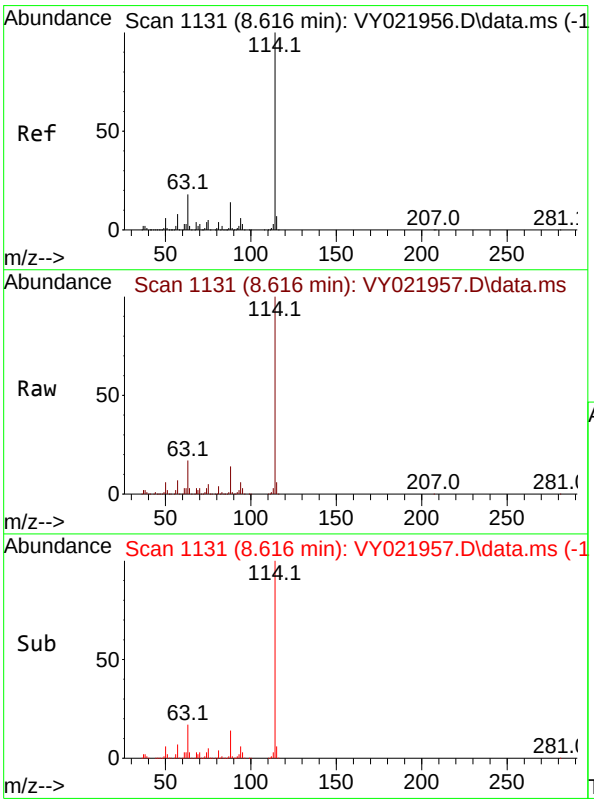
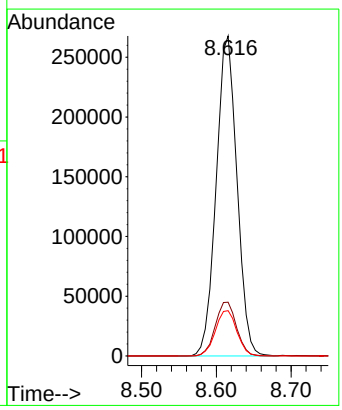
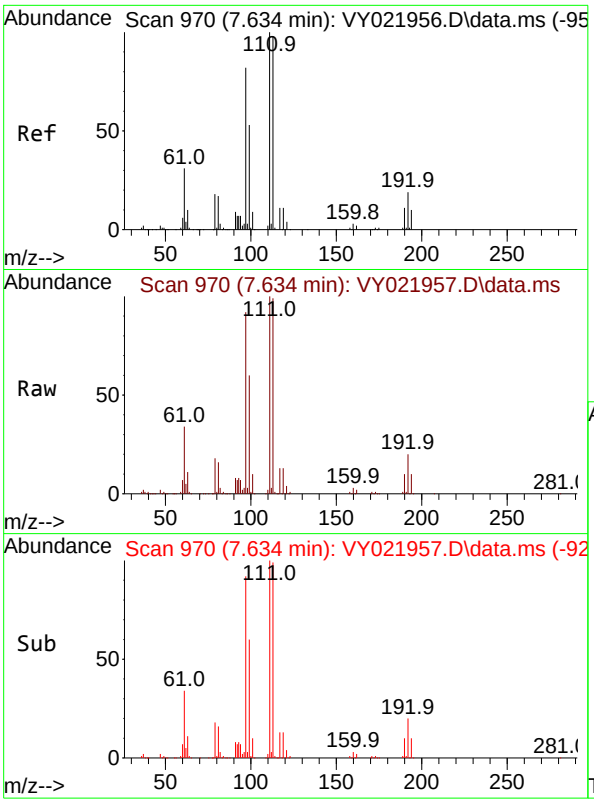


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:114 Resp: 517970

Ion	Ratio	Lower	Upper
114	100		
63	16.8	0.0	35.4
88	14.2	0.0	28.2





#35
Dibromofluoromethane
Concen: 96.430 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:113 Resp: 32998

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	19.7	15.6	23.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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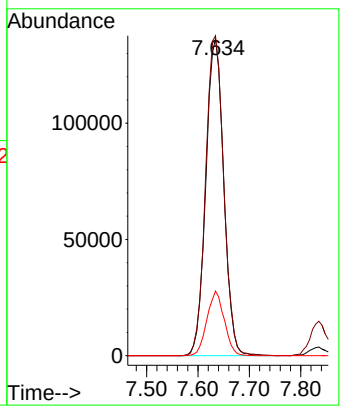
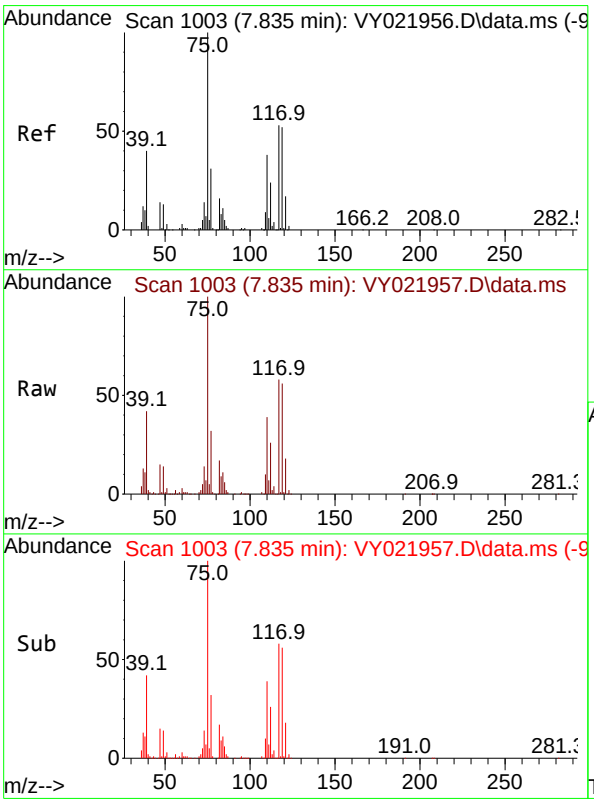
Supervised By :Mahesh Dadoda 04/23/2025

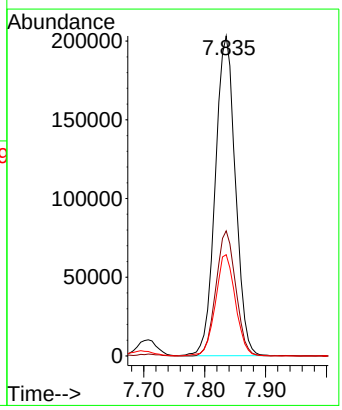


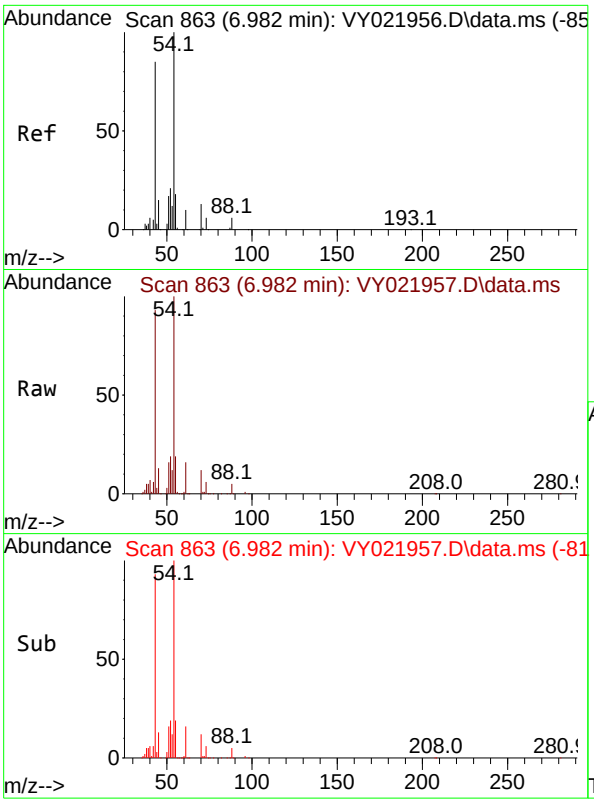


#36
1,1-Dichloropropene
Concen: 101.471 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 75 Resp: 466424

Ion	Ratio	Lower	Upper
75	100		
110	38.6	19.1	57.3
77	31.5	25.5	38.3

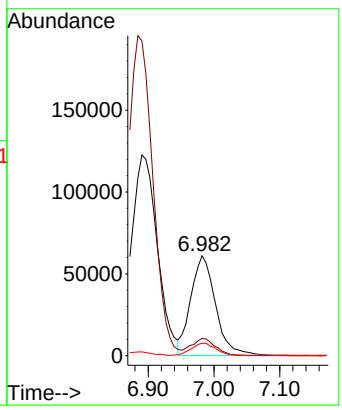




#37
Ethyl Acetate
Concen: 97.530 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 15884

Ion	Ratio	Lower	Upper
43	100		
61	16.9	13.8	20.6
70	12.6	9.2	13.8



Instrument :
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ClientSampleId :
VSTDICC100

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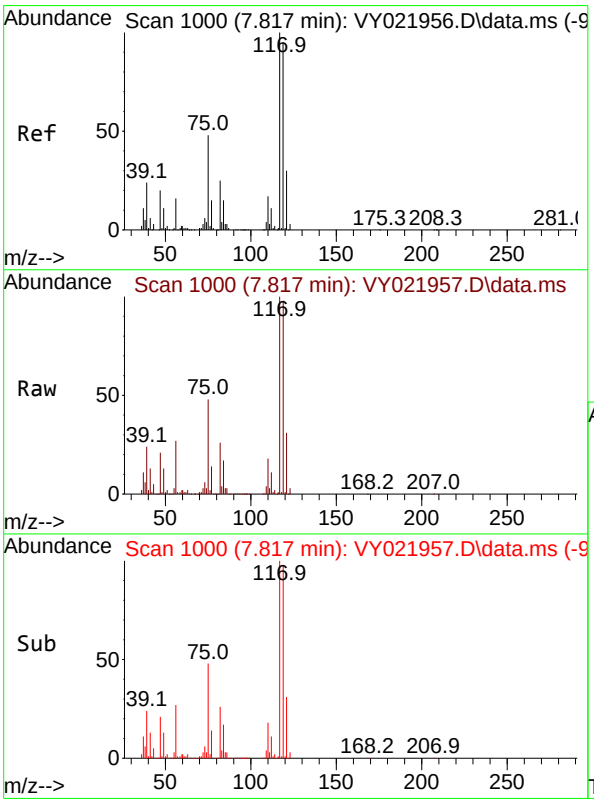
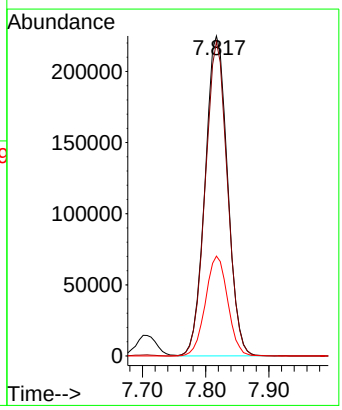
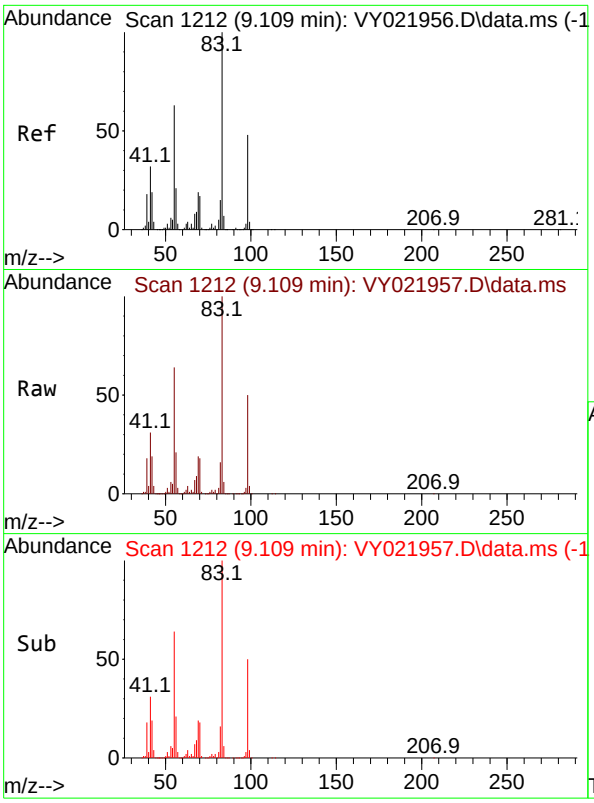


#38
Carbon Tetrachloride
Concen: 100.983 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:117 Resp: 554665

Ion	Ratio	Lower	Upper
117	100		
119	98.2	76.2	114.4
121	31.2	24.0	36.0





#39
Methylcyclohexane
Concen: 107.388 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 83 Resp: 62119

Ion	Ratio	Lower	Upper
83	100		
55	63.7	50.6	75.8
98	50.2	38.6	58.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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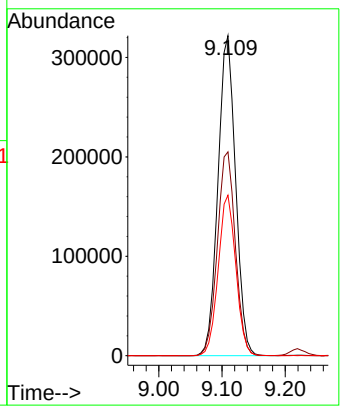
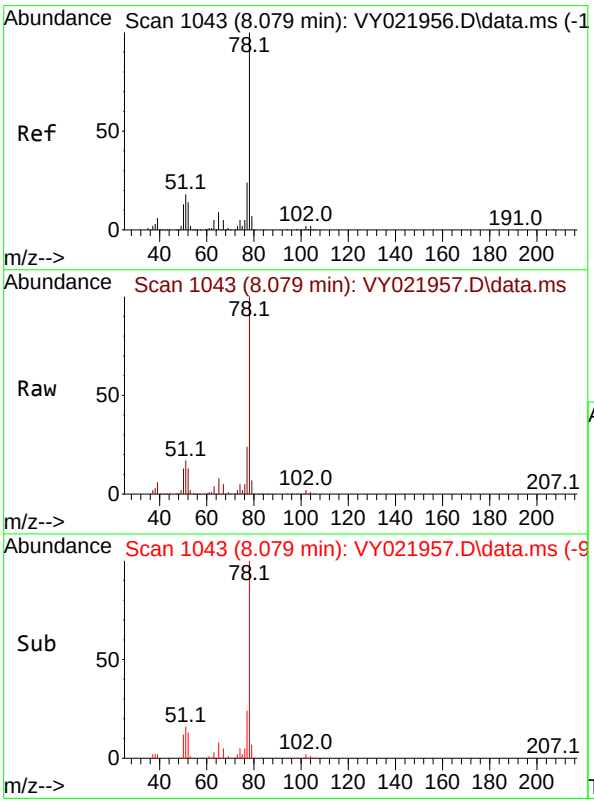
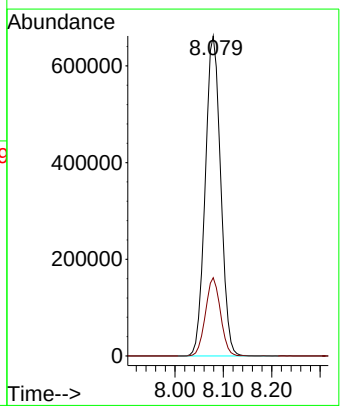


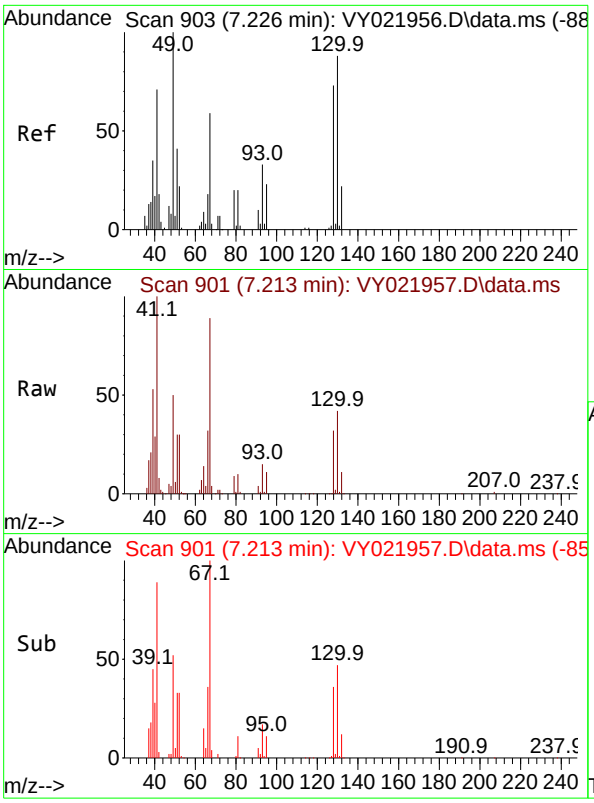


#40
Benzene
Concen: 102.038 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 78 Resp: 1466182

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9

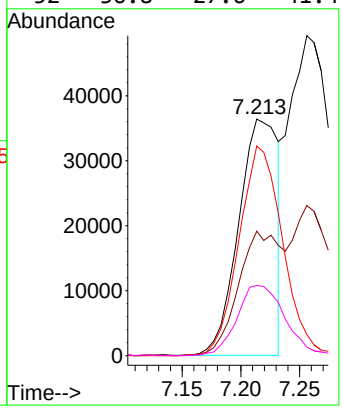




#41
Methacrylonitrile
Concen: 93.624 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 41 Resp: 8452

Ion	Ratio	Lower	Upper
41	100		
39	59.6	36.6	55.0
67	99.3	72.2	108.4
52	36.8	27.6	41.4



Instrument :
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ClientSampleId :
VSTDICC100

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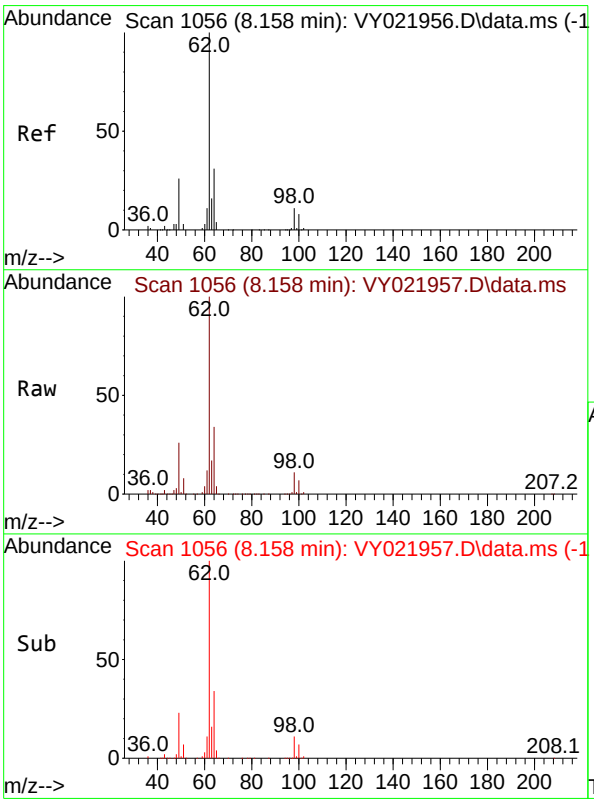
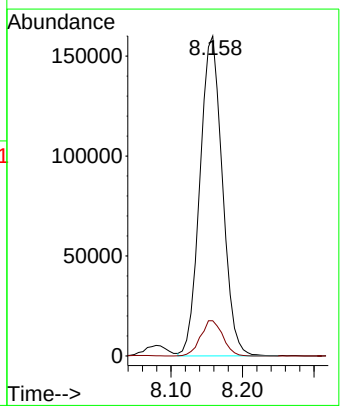
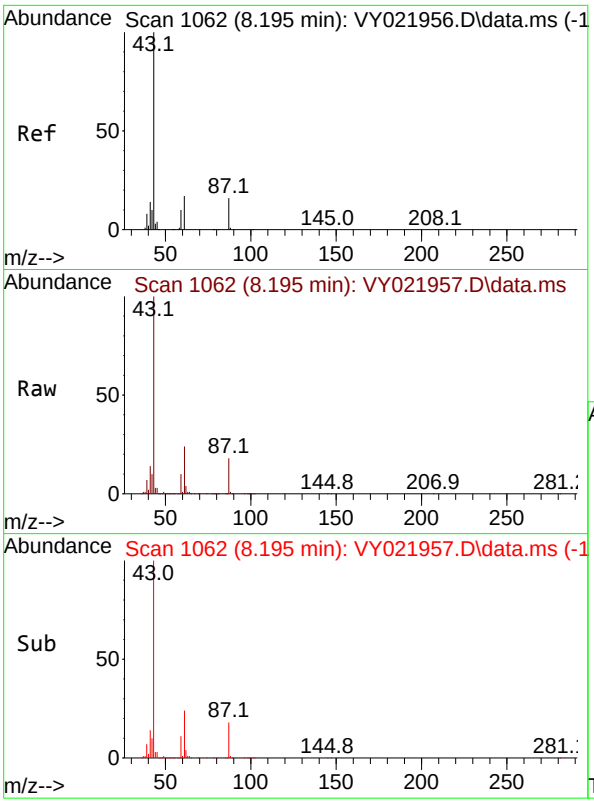


#42
1,2-Dichloroethane
Concen: 97.908 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 62 Resp: 348314

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	22.0

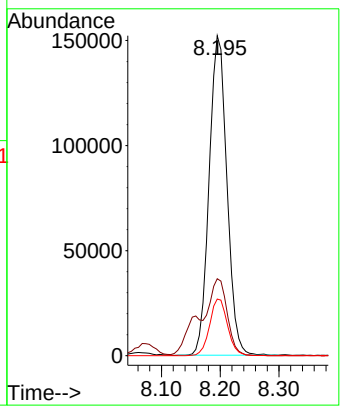




#43
Isopropyl Acetate
Concen: 100.828 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 31966

Ion	Ratio	Lower	Upper
43	100		
61	24.6	18.9	28.3
87	17.8	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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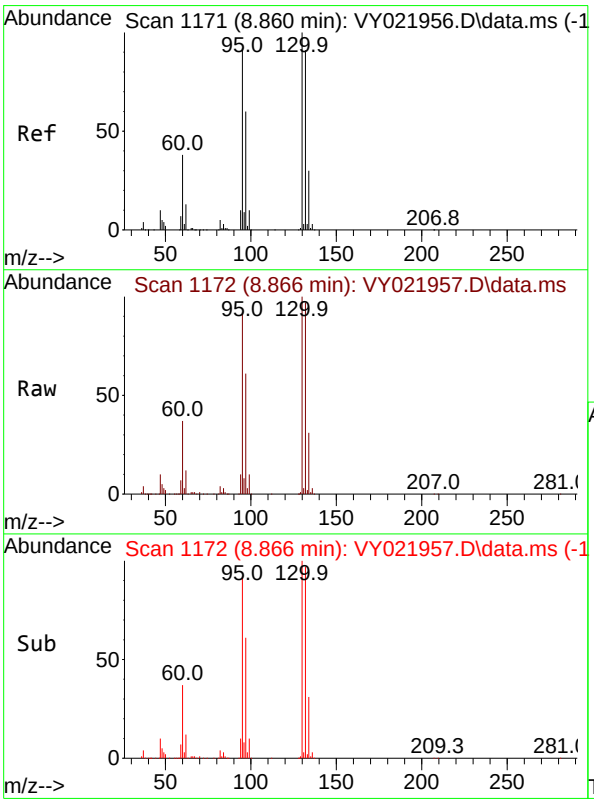
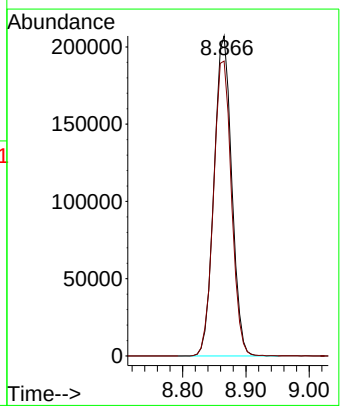
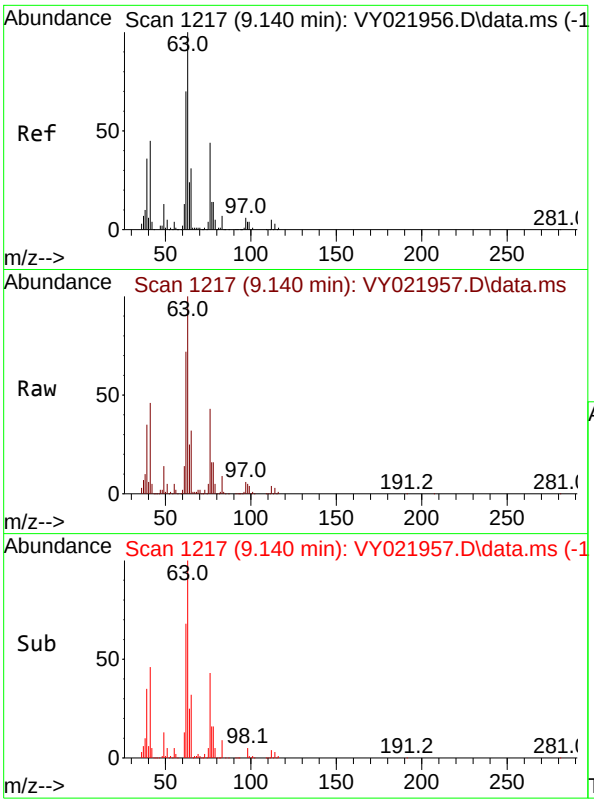


#44
Trichloroethene
Concen: 100.789 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:130 Resp: 401139

Ion	Ratio	Lower	Upper
130	100		
95	92.2	0.0	183.2

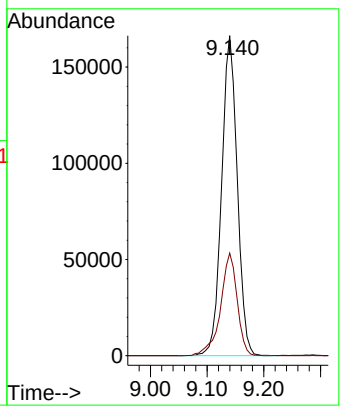




#45
1,2-Dichloropropane
Concen: 100.279 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 63 Resp: 31864

Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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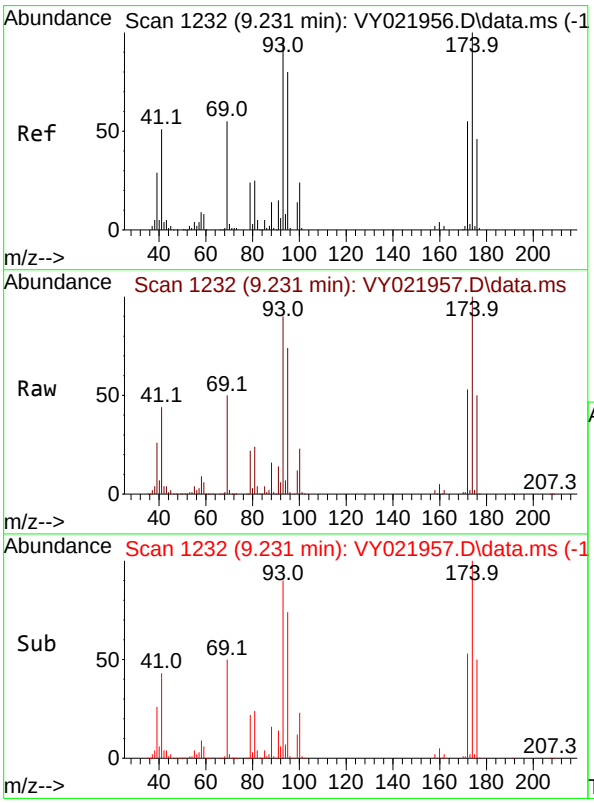
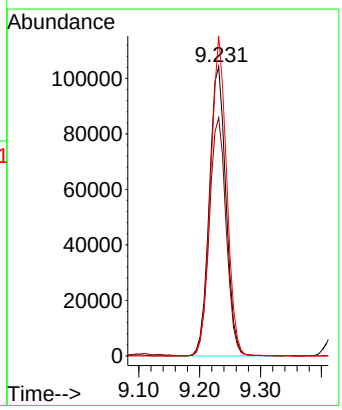
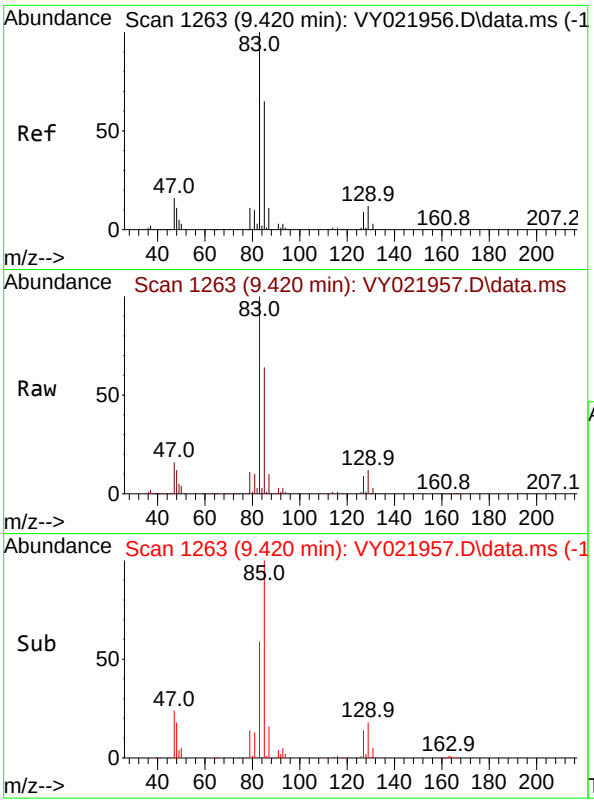


#46
Dibromomethane
Concen: 99.293 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 93 Resp: 197509

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.7	100.1
174	106.6	84.6	127.0

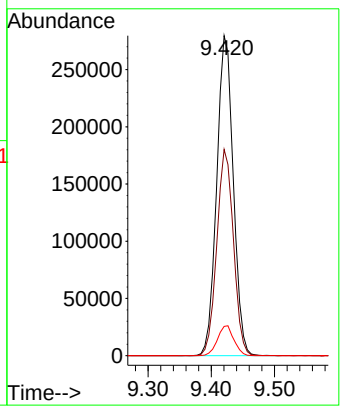




#47
Bromodichloromethane
Concen: 102.188 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 83 Resp: 50779

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.8	77.8
127	9.2	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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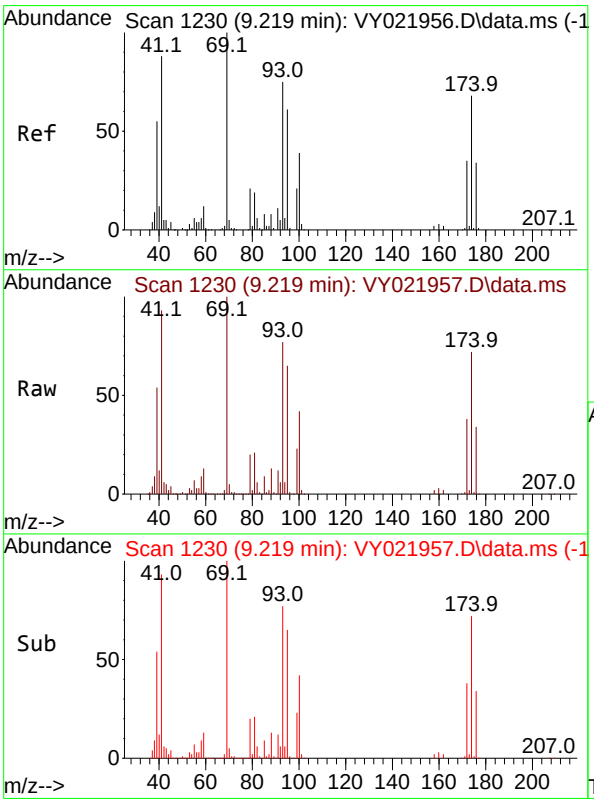
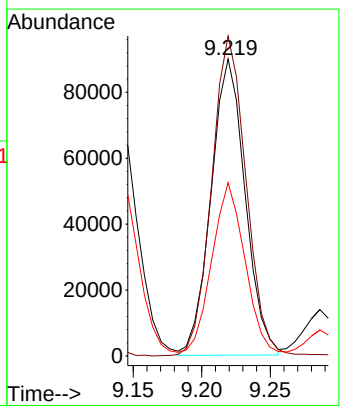
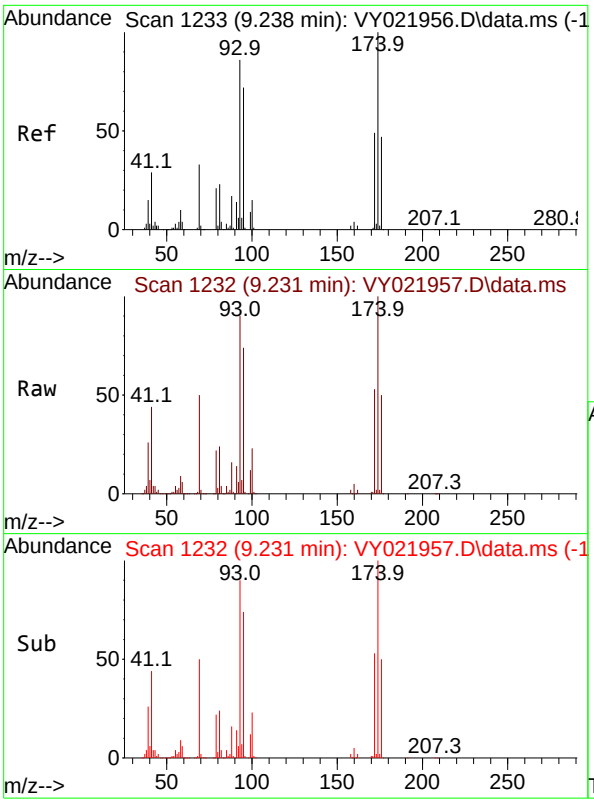


#48
Methyl methacrylate
Concen: 106.117 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 41 Resp: 155528

Ion	Ratio	Lower	Upper
41	100		
69	109.2	85.5	128.3
39	55.1	46.2	69.4

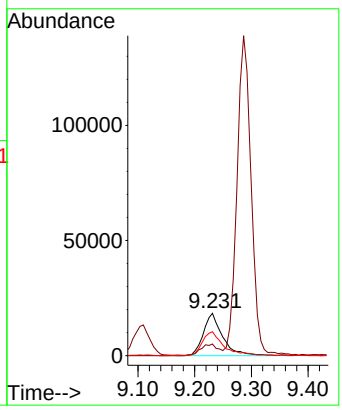




#49
1,4-Dioxane
Concen: 2036.490 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 88 Resp: 4317

Ion	Ratio	Lower	Upper
88	100		
43	24.3	21.3	31.9
58	62.9	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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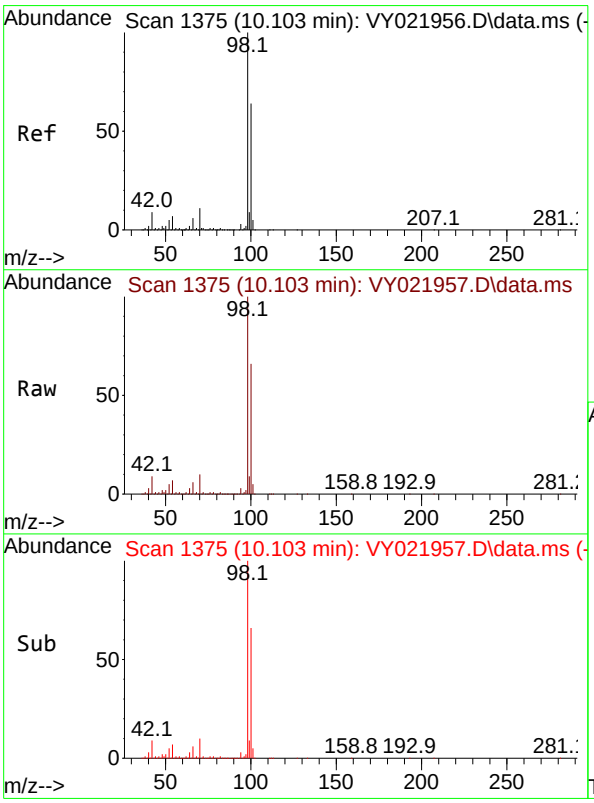
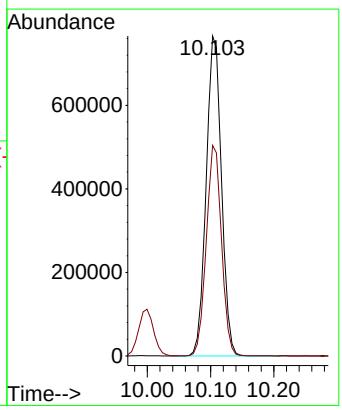
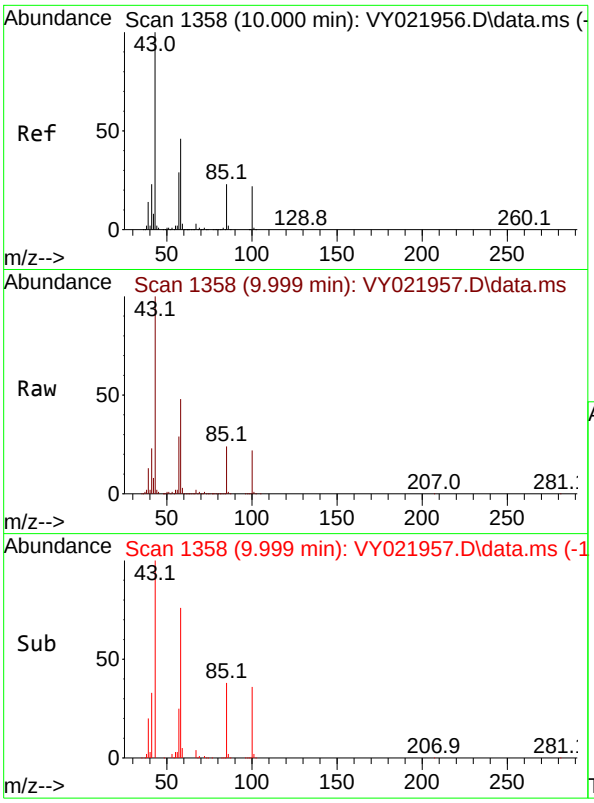


#50
Toluene-d8
Concen: 99.860 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 98 Resp: 1288287

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.6	77.4

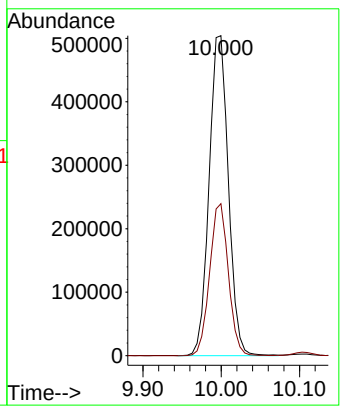




#51
4-Methyl-2-Pentanone
Concen: 517.403 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 85990

Ion	Ratio	Lower	Upper
43	100		
58	46.3	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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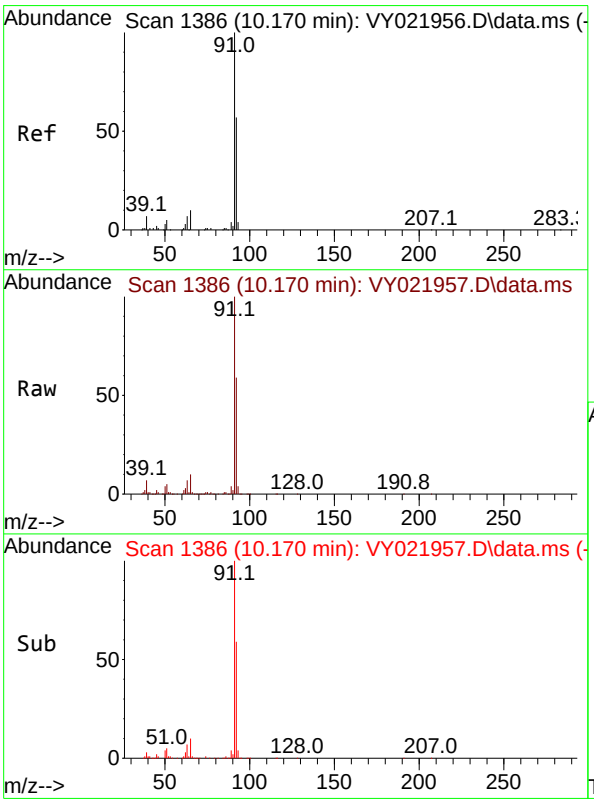
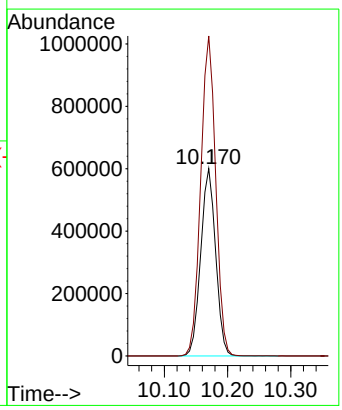
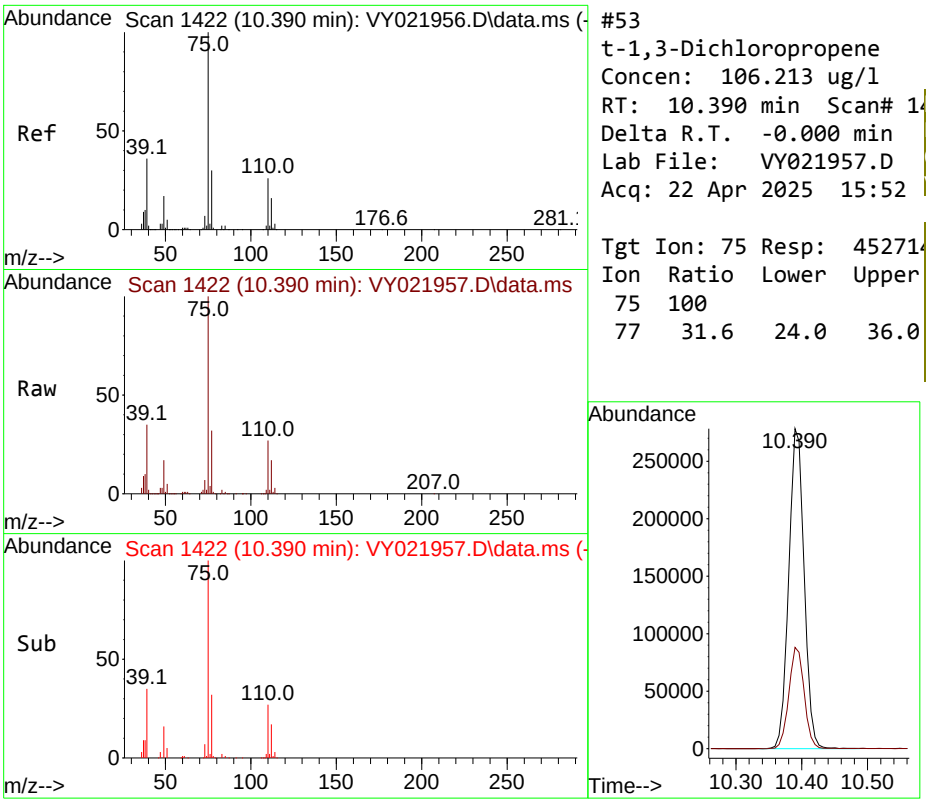


#52
Toluene
Concen: 106.068 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 92 Resp: 986553

Ion	Ratio	Lower	Upper
92	100		
91	171.9	138.6	207.8





#53
t-1,3-Dichloropropene
Concen: 106.213 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 75 Resp: 45271

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.0	36.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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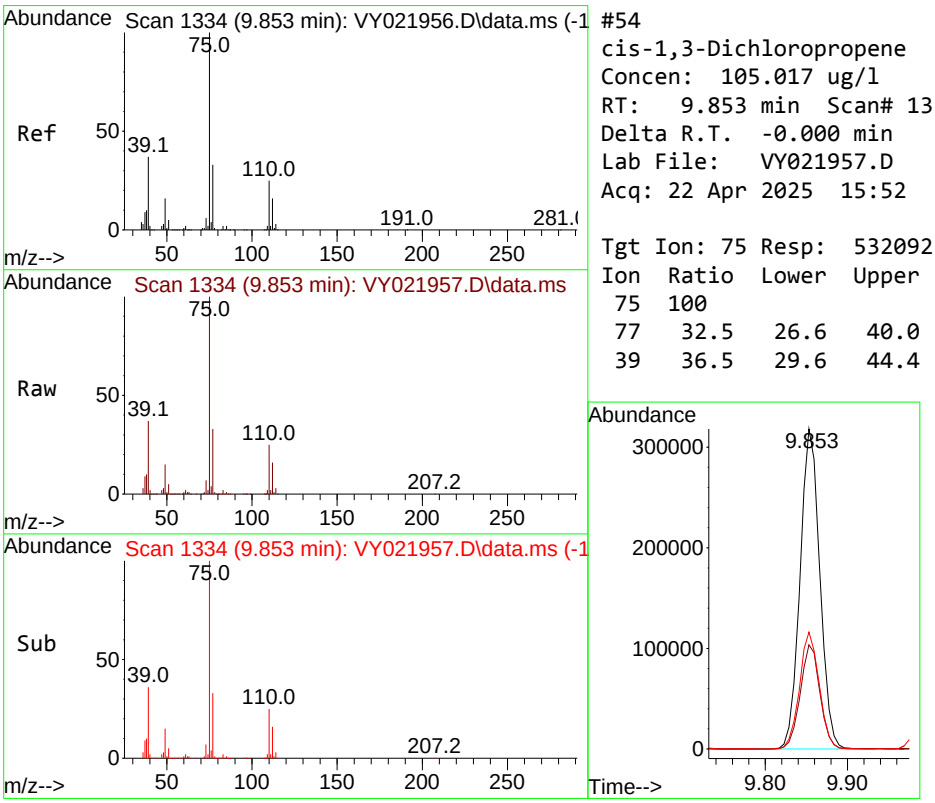
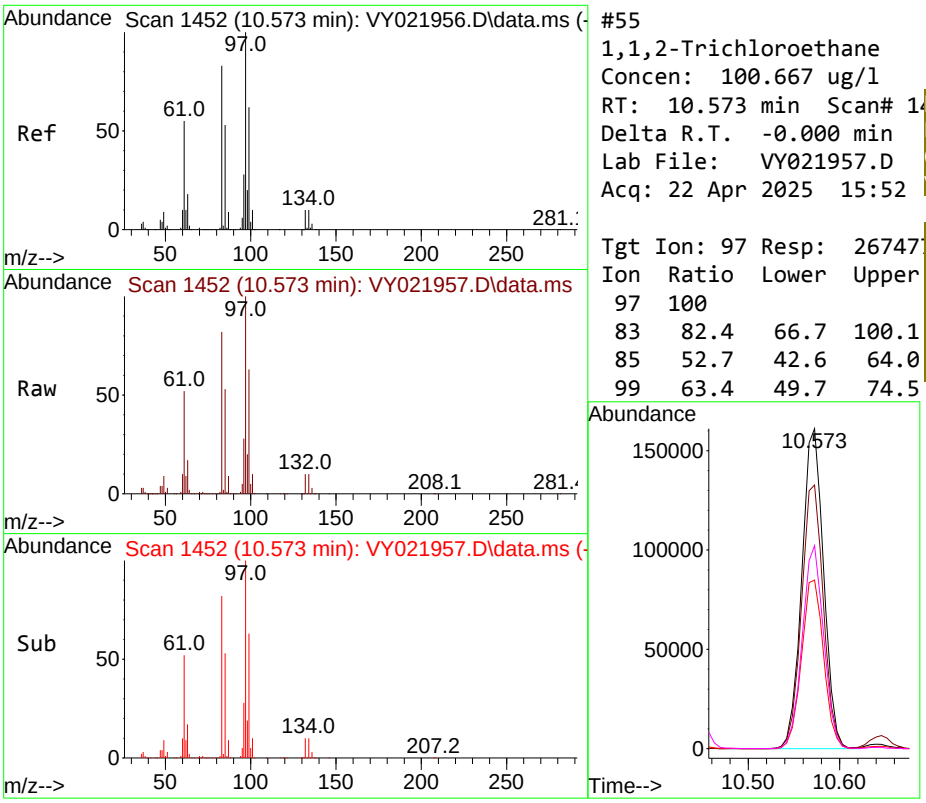
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#54
cis-1,3-Dichloropropene
Concen: 105.017 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 75 Resp: 532092

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.6	40.0
39	36.5	29.6	44.4



#55
1,1,2-Trichloroethane
Concen: 100.667 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 97 Resp: 26747

Ion	Ratio	Lower	Upper
97	100		
83	82.4	66.7	100.1
85	52.7	42.6	64.0
99	63.4	49.7	74.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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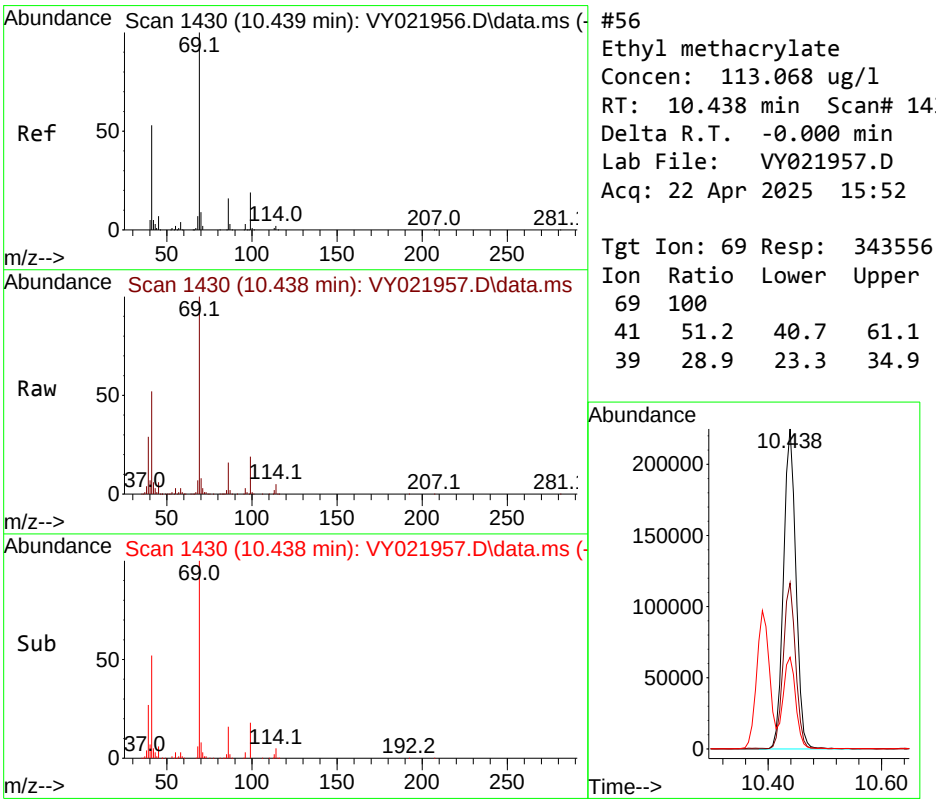
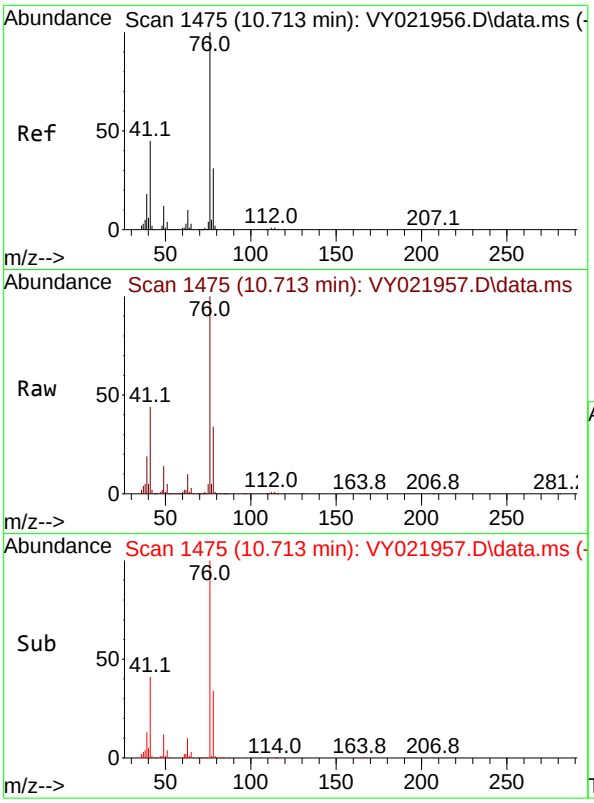


#56
Ethyl methacrylate
Concen: 113.068 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 69 Resp: 343556

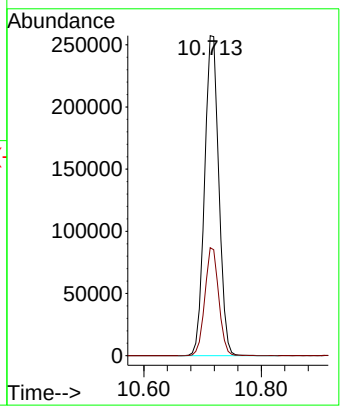
Ion	Ratio	Lower	Upper
69	100		
41	51.2	40.7	61.1
39	28.9	23.3	34.9



#57
1,3-Dichloropropane
Concen: 101.498 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 76 Resp: 43234

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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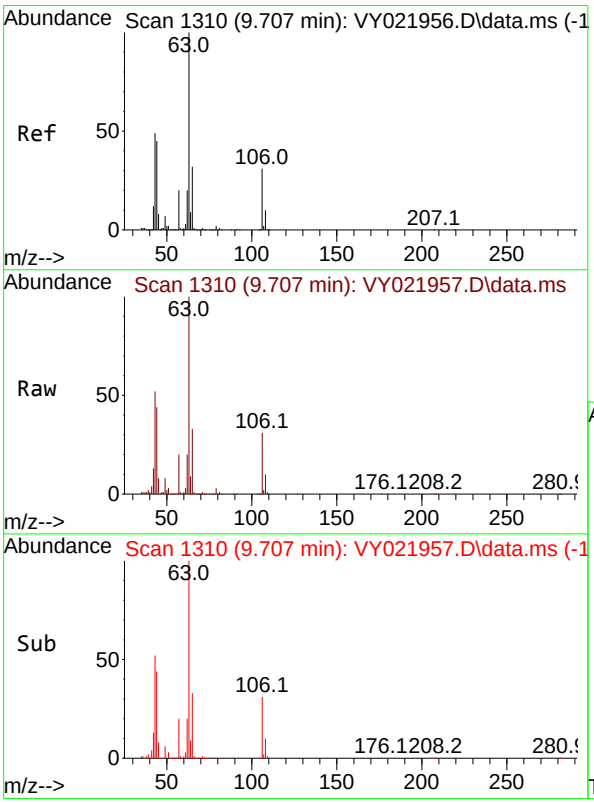
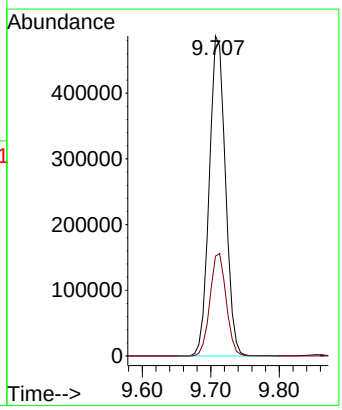
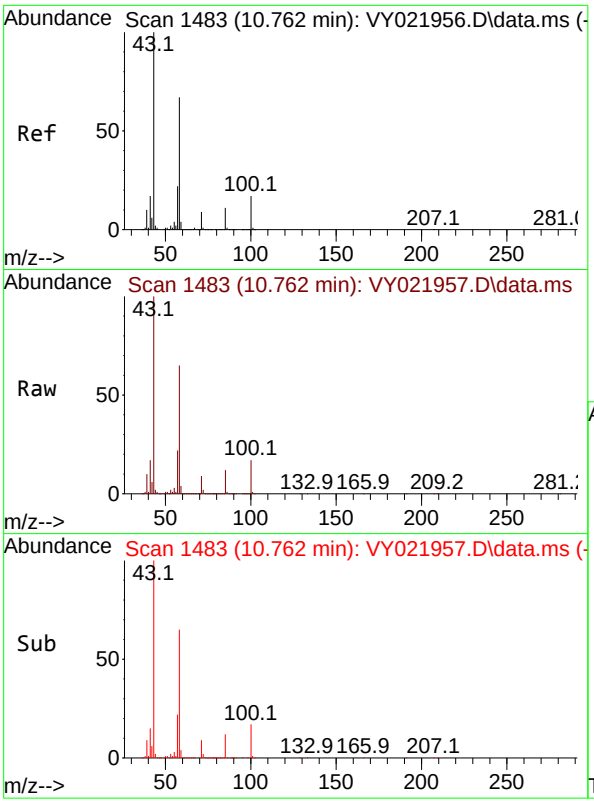


#58
2-Chloroethyl Vinyl ether
Concen: 536.469 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 63 Resp: 796991

Ion	Ratio	Lower	Upper
63	100		
106	32.1	25.3	37.9

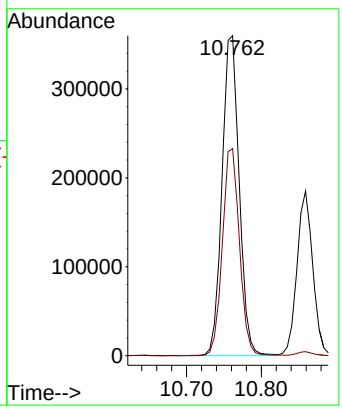




#59
2-Hexanone
Concen: 523.558 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 57392

Ion	Ratio	Lower	Upper
43	100		
58	64.5	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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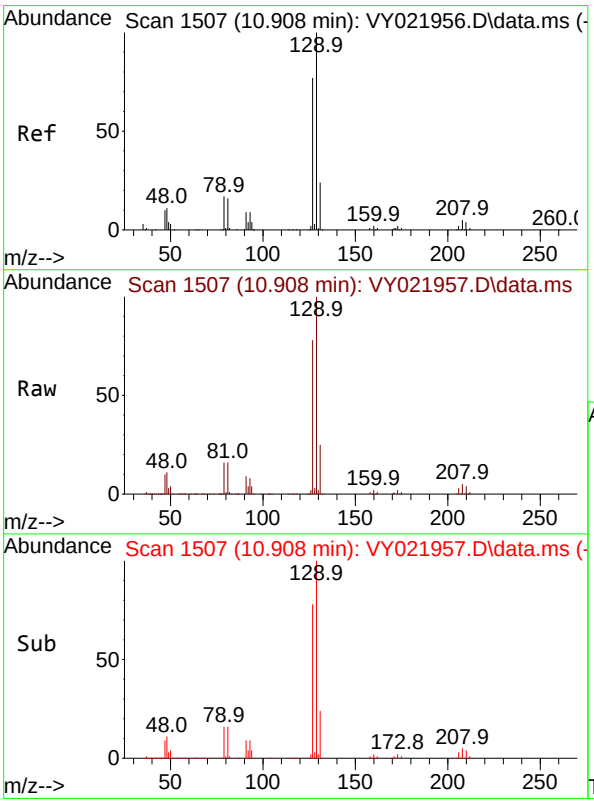
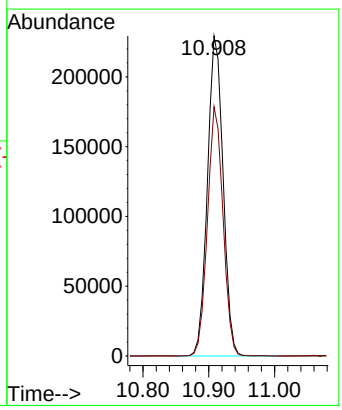
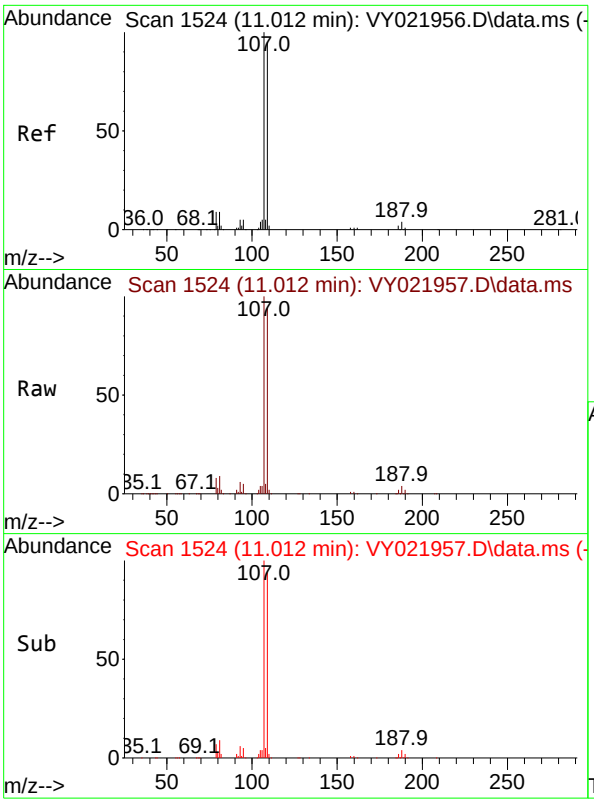


#60
Dibromochloromethane
Concen: 103.302 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:129 Resp: 380014

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.5	115.3

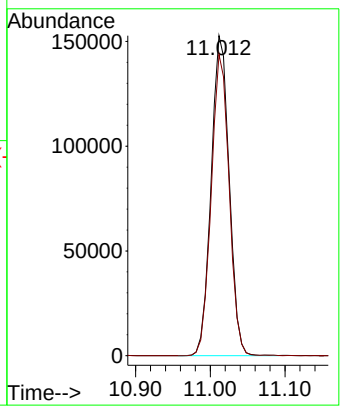




#61
1,2-Dibromoethane
Concen: 102.087 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:107 Resp: 25607

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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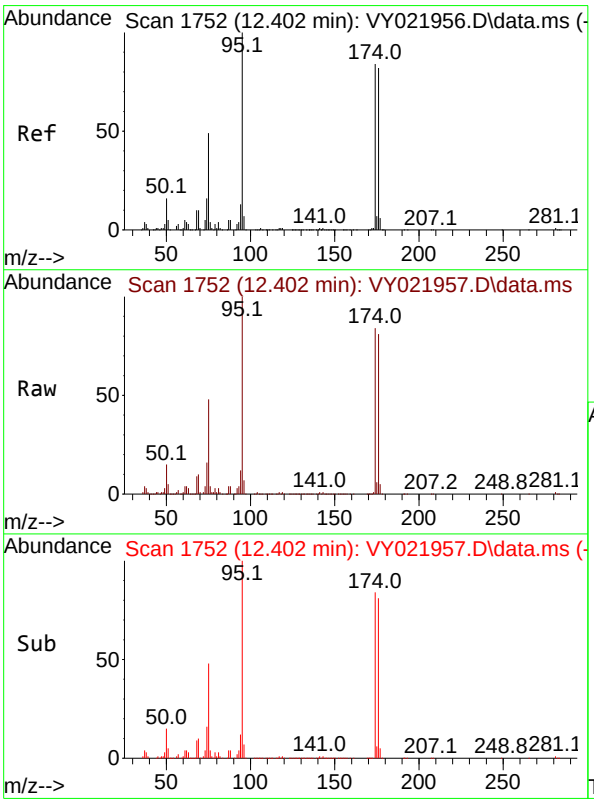
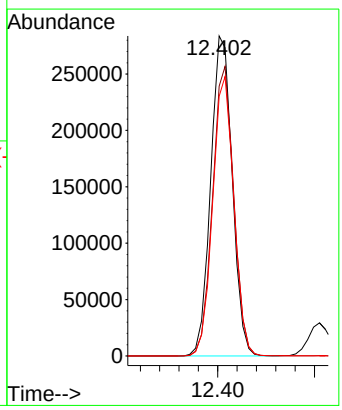
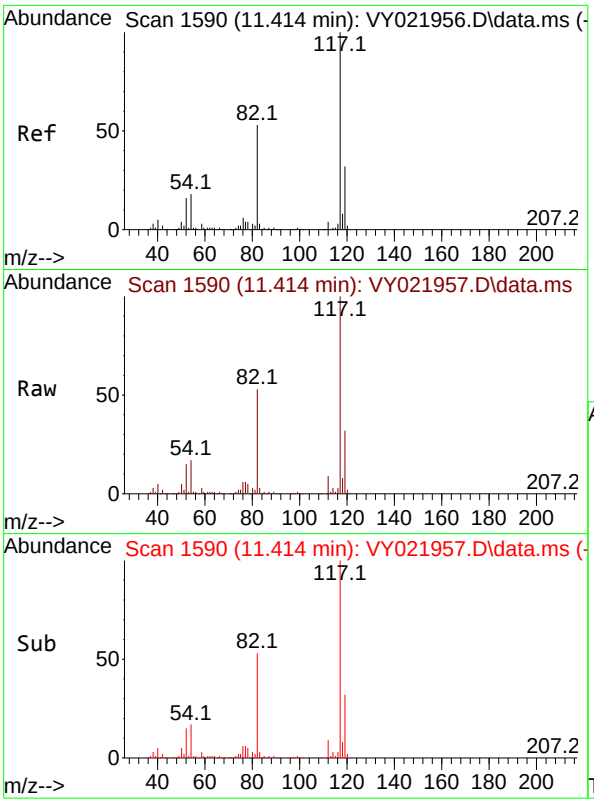


#62
4-Bromofluorobenzene
Concen: 100.832 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 95 Resp: 437911

Ion	Ratio	Lower	Upper
95	100		
174	88.8	0.0	179.0
176	85.8	0.0	171.8

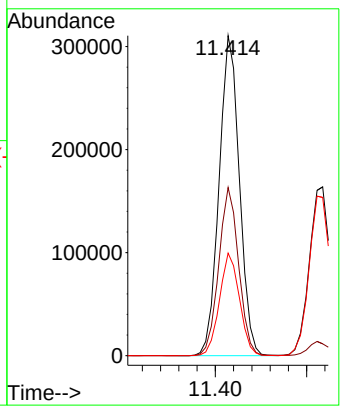




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:117 Resp: 47977

Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.1	63.1
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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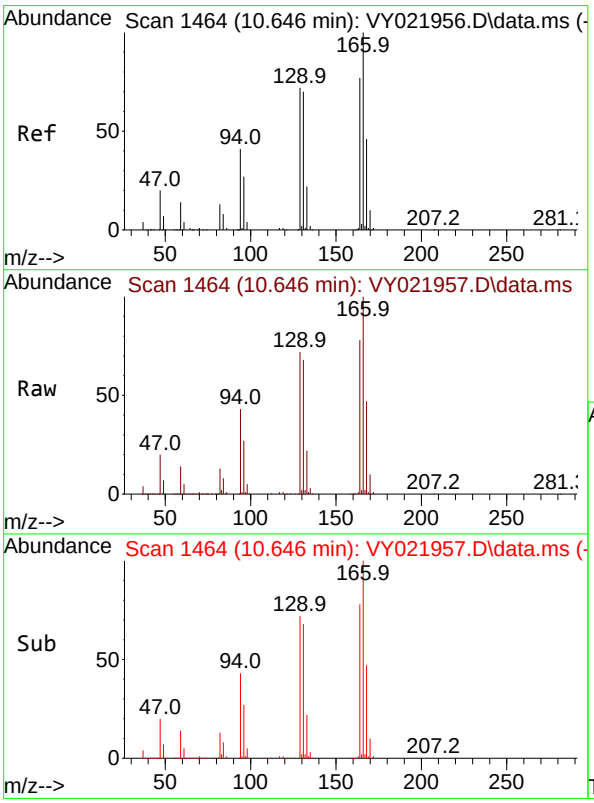
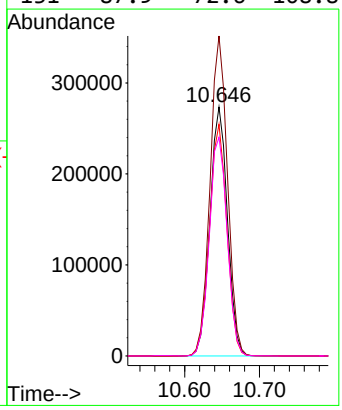
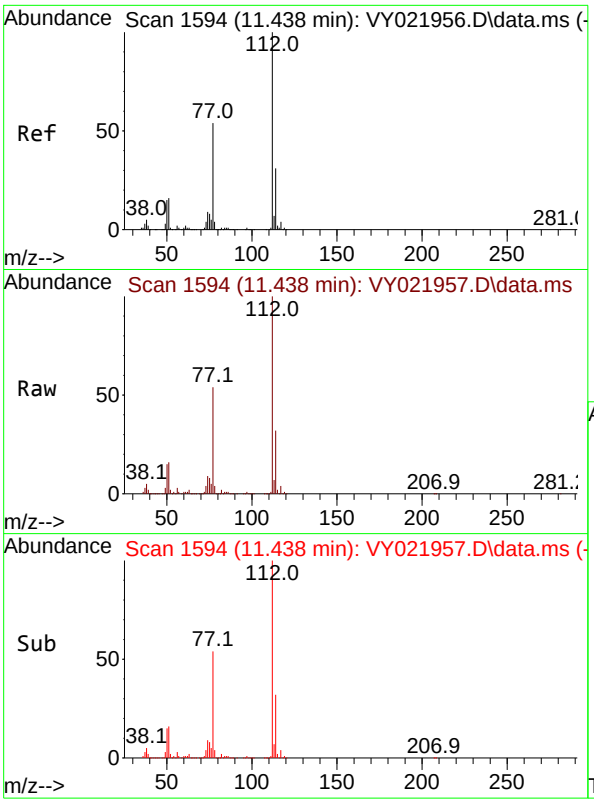


#64
Tetrachloroethene
Concen: 98.761 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:164 Resp: 446995

Ion	Ratio	Lower	Upper
164	100		
166	128.5	103.6	155.4
129	93.1	74.2	111.4
131	87.9	72.6	108.8

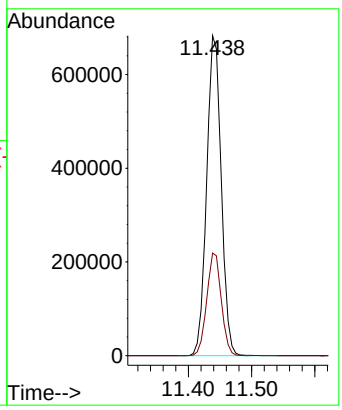




#65
Chlorobenzene
Concen: 101.831 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:112 Resp: 109254

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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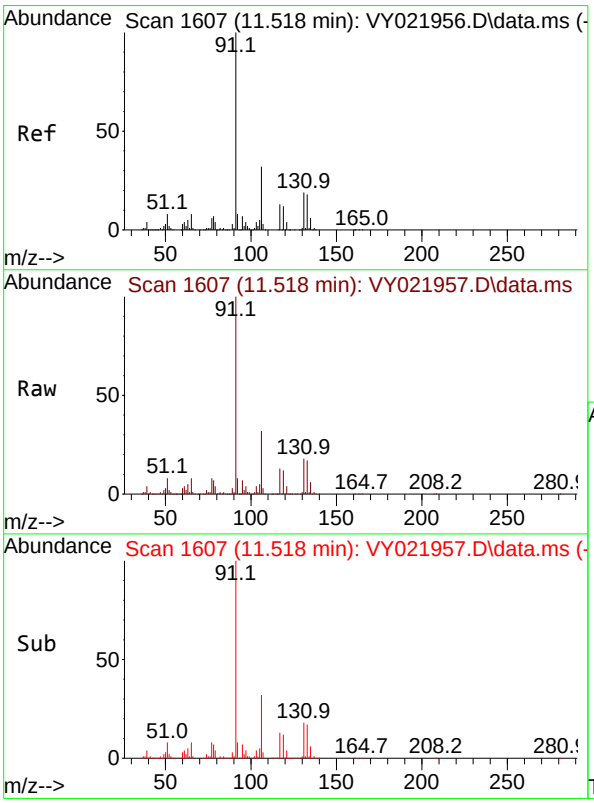
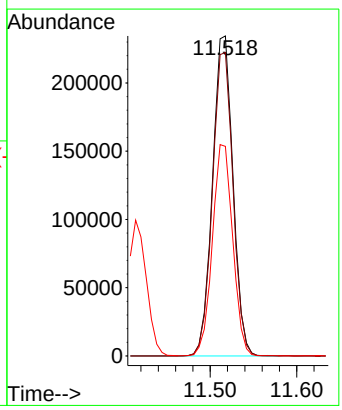
Supervised By :Mahesh Dadoda 04/23/2025

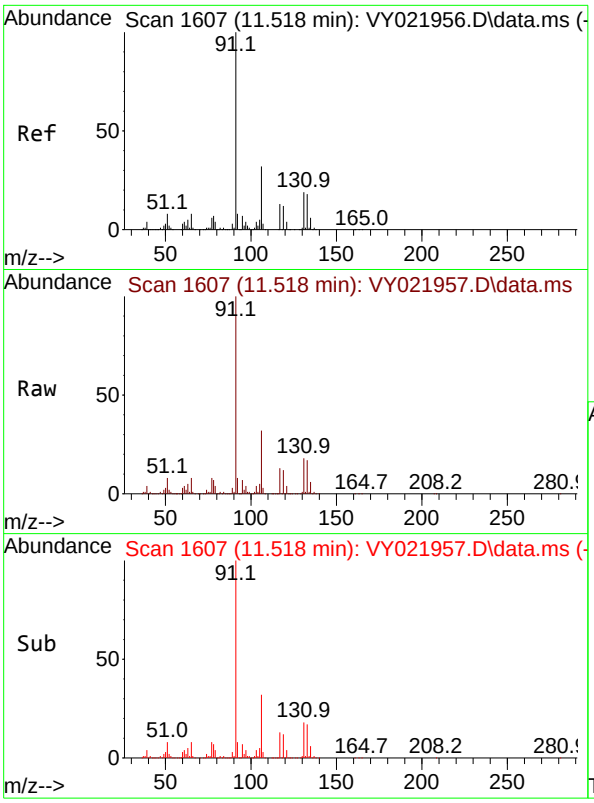


#66
1,1,1,2-Tetrachloroethane
Concen: 101.907 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:131 Resp: 384924

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.8	143.3
119	65.6	32.4	97.0

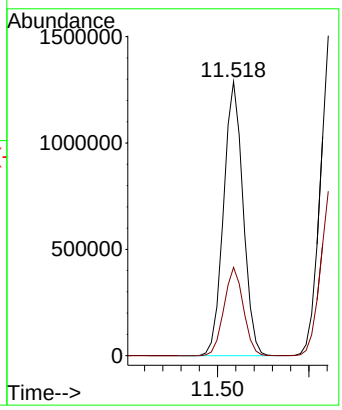




#67
Ethyl Benzene
Concen: 108.806 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 91 Resp: 190963

Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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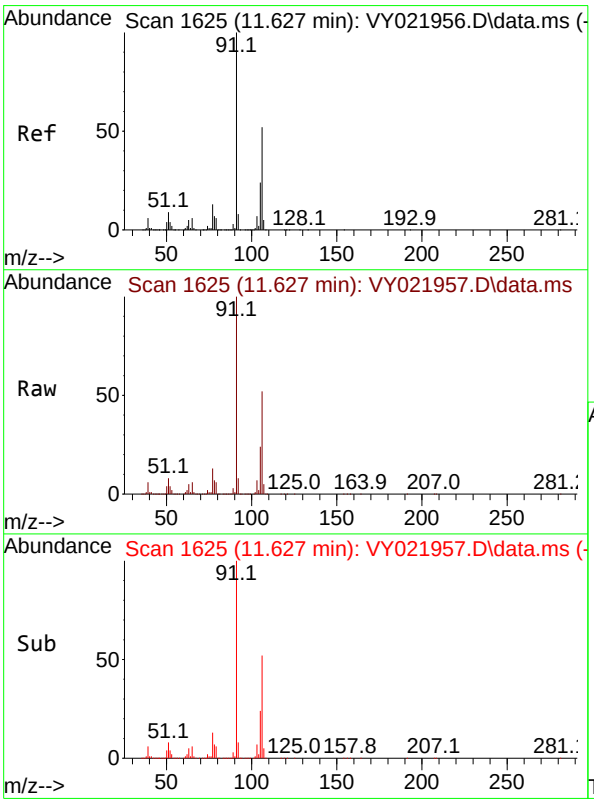
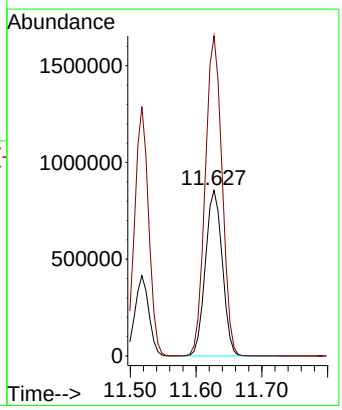
Supervised By :Mahesh Dadoda 04/23/2025

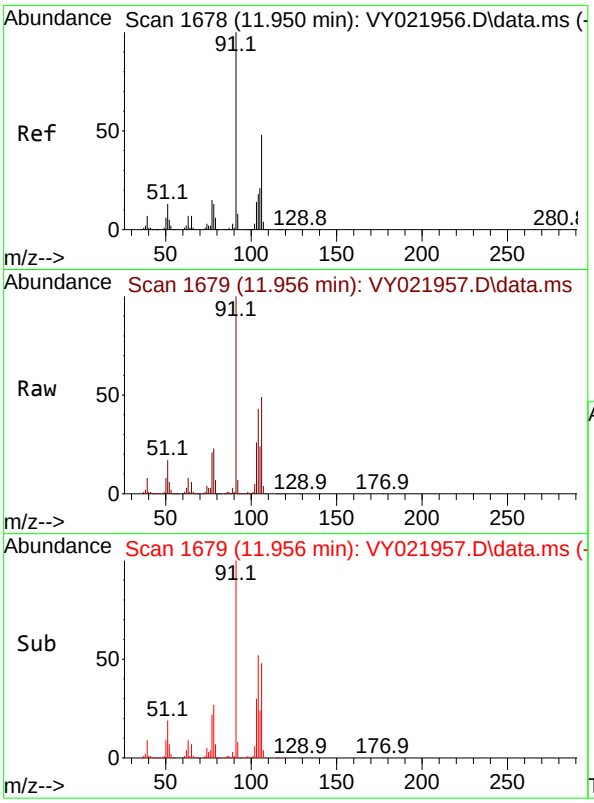


#68
m/p-Xylenes
Concen: 218.926 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:106 Resp: 1528954

Ion	Ratio	Lower	Upper
106	100		
91	192.6	156.2	234.2

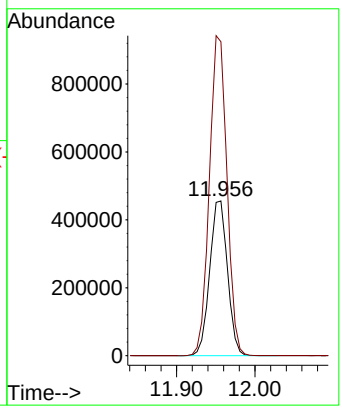




#69
o-Xylene
Concen: 111.334 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:106 Resp: 71665

Ion	Ratio	Lower	Upper
106	100		
91	204.4	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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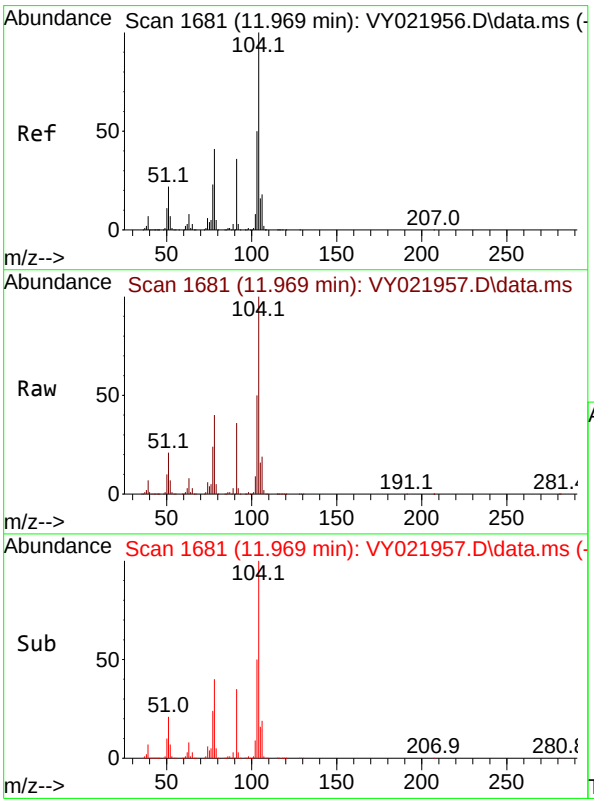
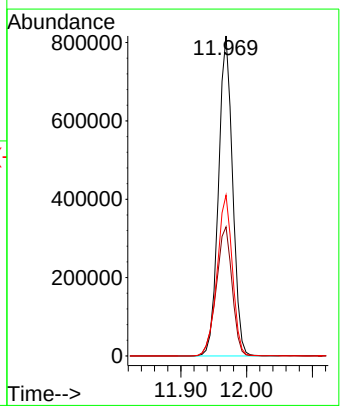
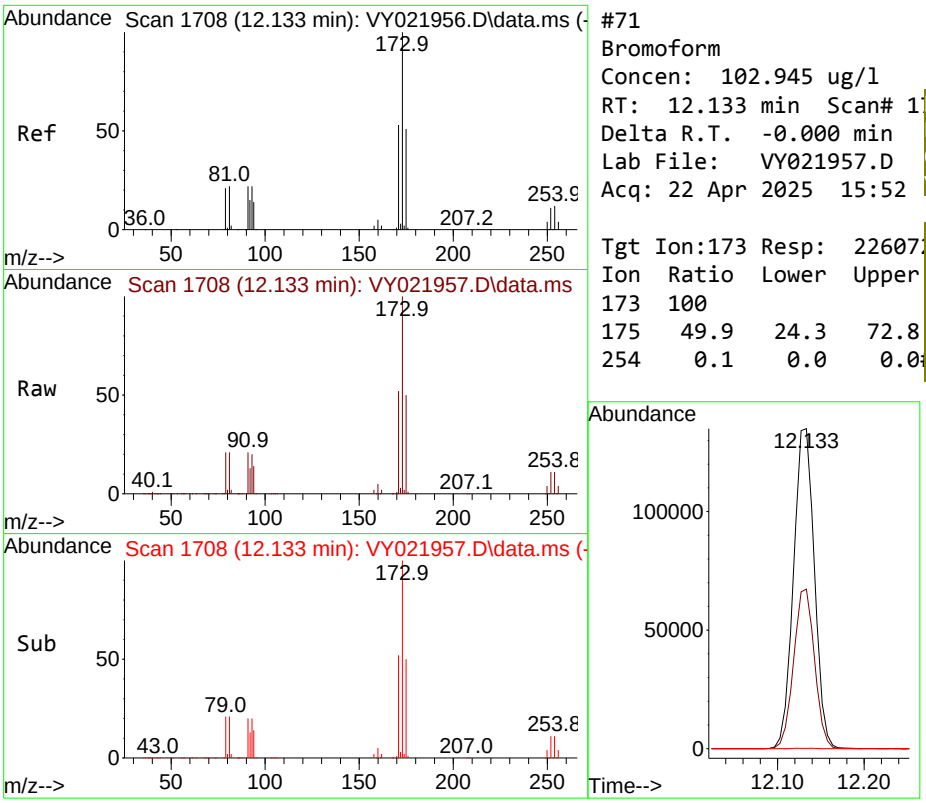


#70
Styrene
Concen: 112.940 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:104 Resp: 1220634

Ion	Ratio	Lower	Upper
104	100		
78	45.4	36.6	54.8
103	54.4	43.8	65.8





#71
Bromoform
Concen: 102.945 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:173 Resp: 22607

Ion	Ratio	Lower	Upper
173	100		
175	49.9	24.3	72.8
254	0.1	0.0	0.0#

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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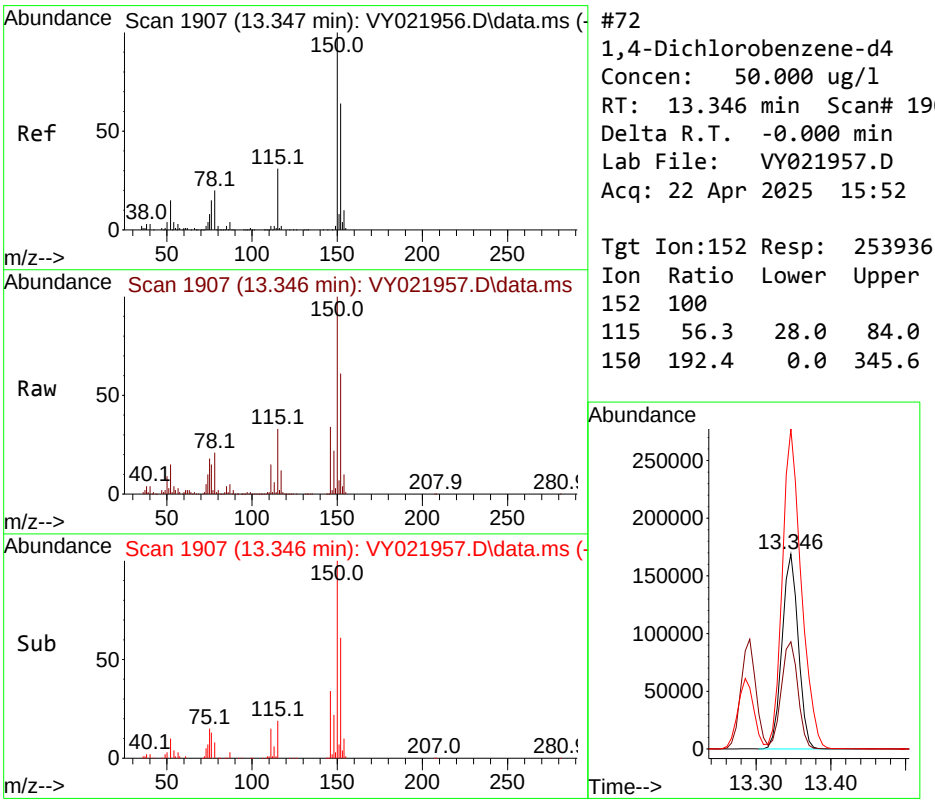
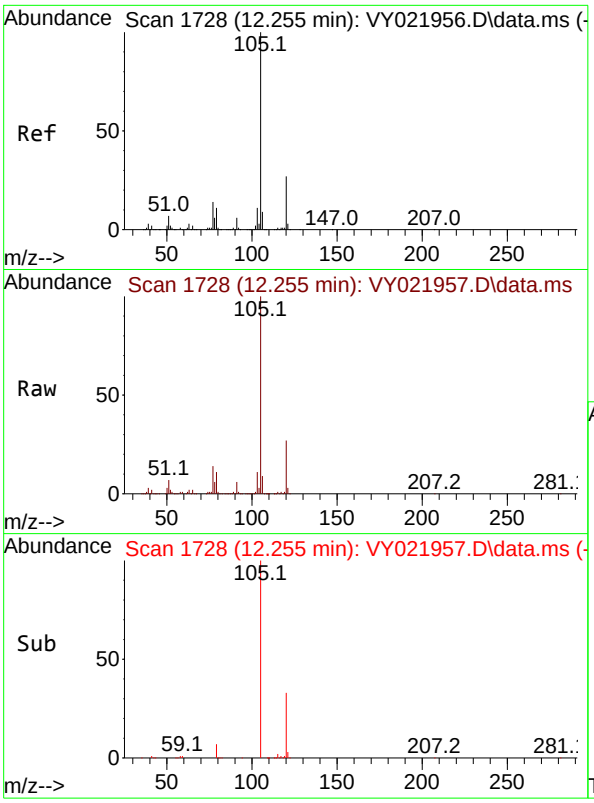
Supervised By :Mahesh Dadoda 04/23/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:152 Resp: 253936

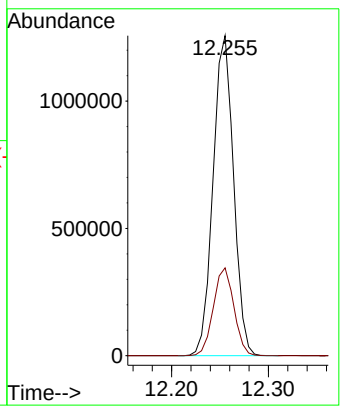
Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.0	84.0
150	192.4	0.0	345.6



#73
Isopropylbenzene
Concen: 108.944 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:105 Resp: 184830

Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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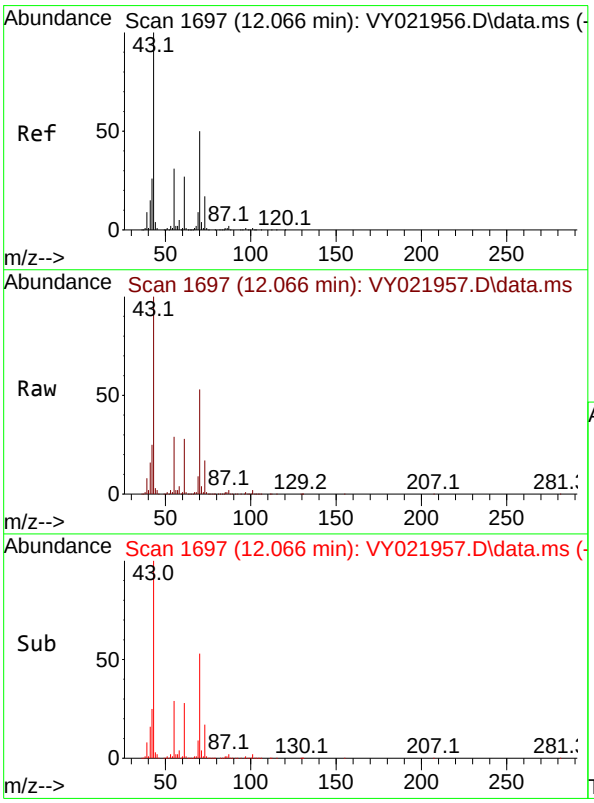
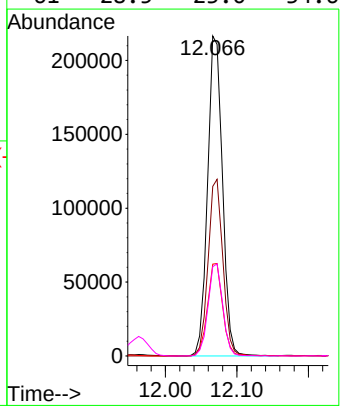
Supervised By :Mahesh Dadoda 04/23/2025

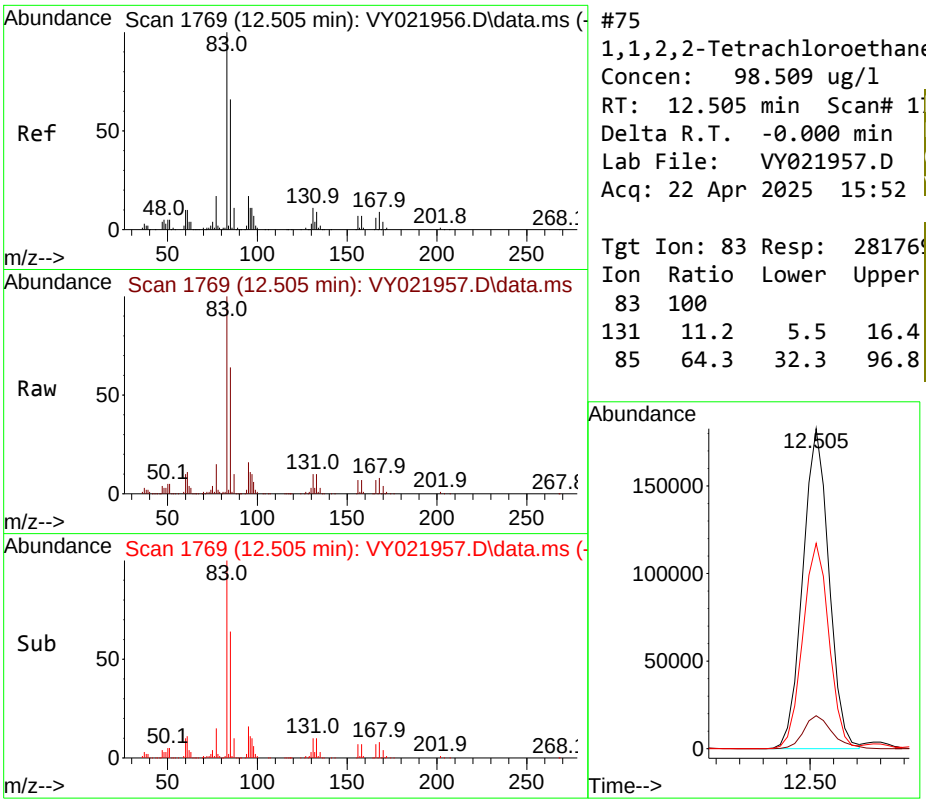


#74
N-amyl acetate
Concen: 107.236 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 43 Resp: 312577

Ion	Ratio	Lower	Upper
43	100		
70	55.0	43.2	64.8
55	29.7	25.7	38.5
61	28.5	23.0	34.6





#75
1,1,2,2-Tetrachloroethane
Concen: 98.509 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 83 Resp: 28176

Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.5	16.4
85	64.3	32.3	96.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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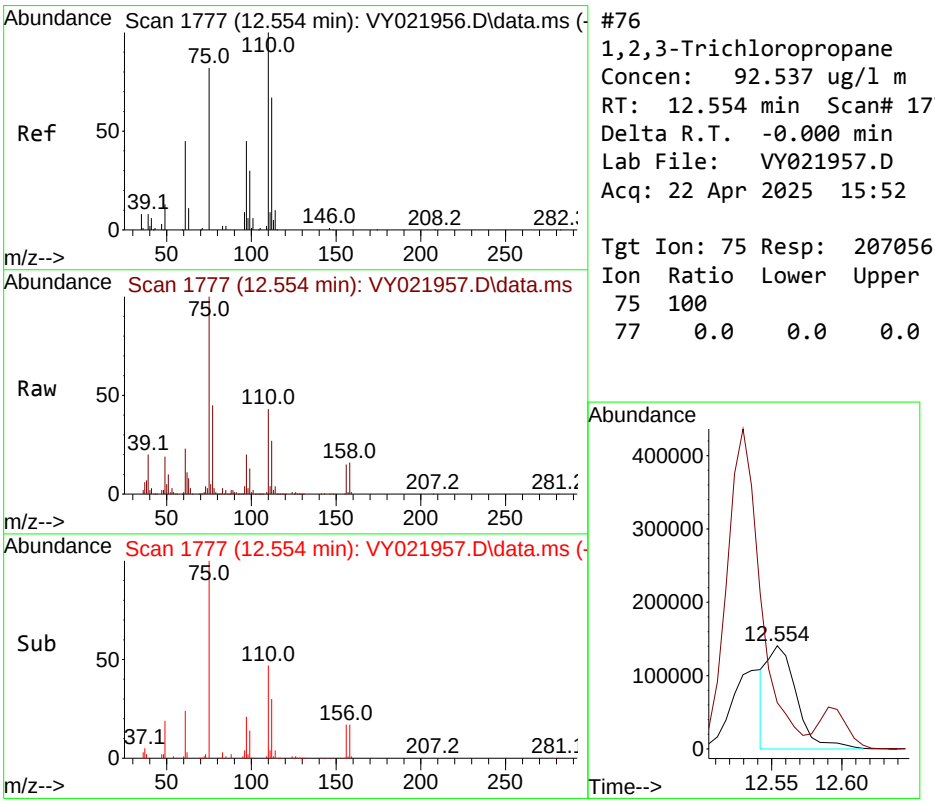
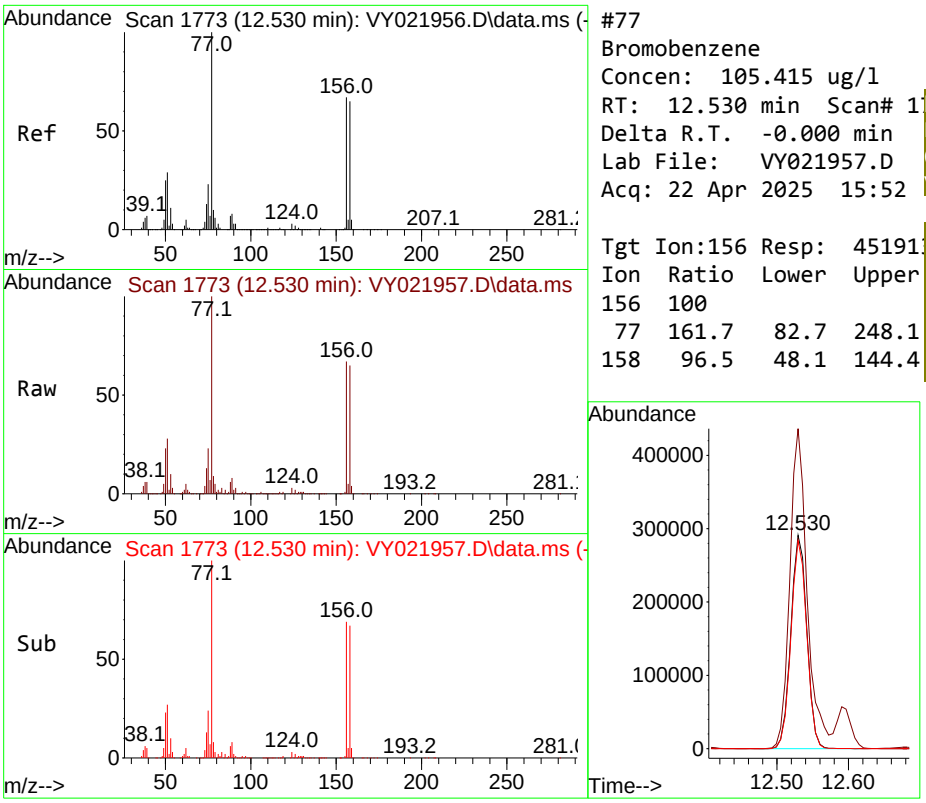


#76
1,2,3-Trichloropropane
Concen: 92.537 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 75 Resp: 207056

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



#77
Bromobenzene
Concen: 105.415 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:156 Resp: 45191

Ion	Ratio	Lower	Upper
156	100		
77	161.7	82.7	248.1
158	96.5	48.1	144.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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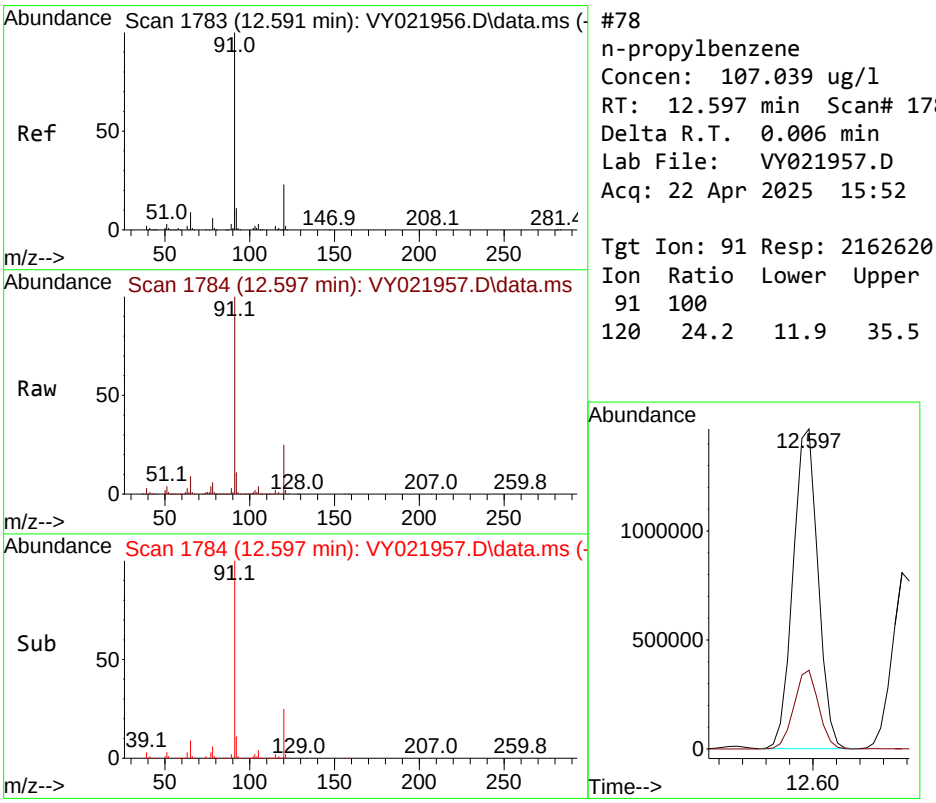
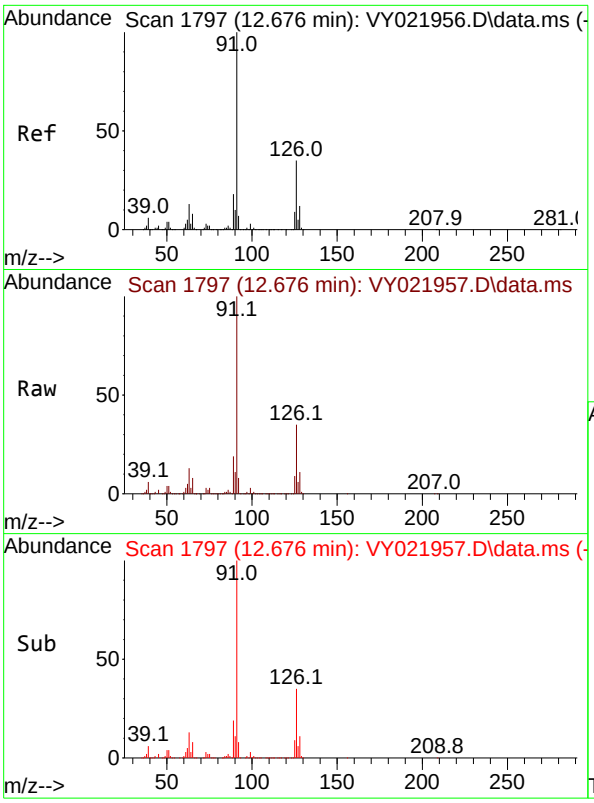


#78
n-propylbenzene
Concen: 107.039 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 91 Resp: 2162620

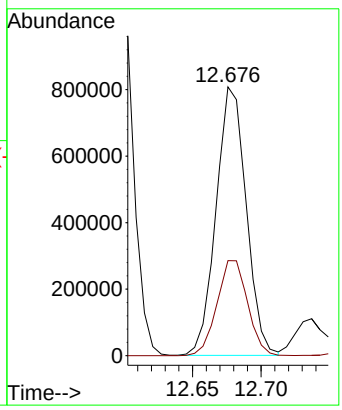
Ion	Ratio	Lower	Upper
91	100		
120	24.2	11.9	35.5



#79
2-Chlorotoluene
Concen: 105.231 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 91 Resp: 123645

Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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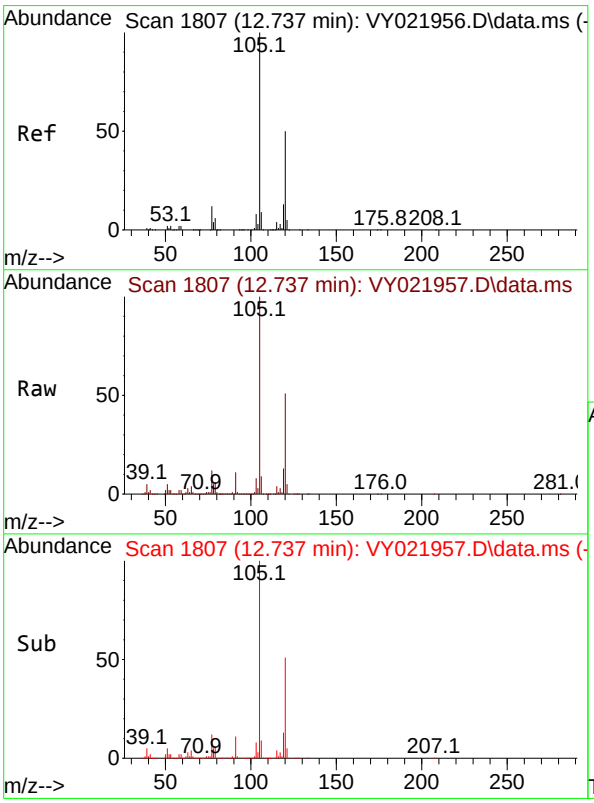
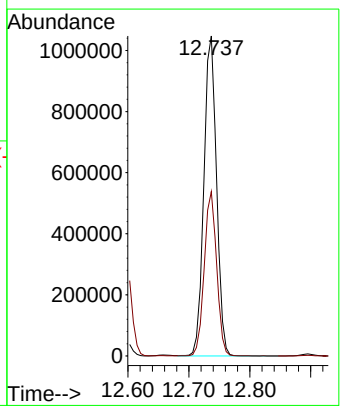
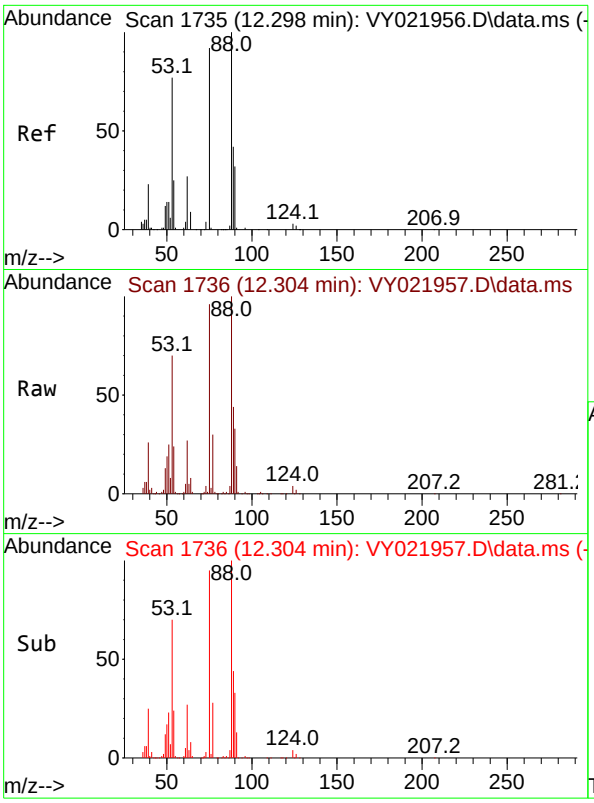


#80
1,3,5-Trimethylbenzene
Concen: 108.183 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:105 Resp: 1512269

Ion	Ratio	Lower	Upper
105	100		
120	50.3	25.0	75.0

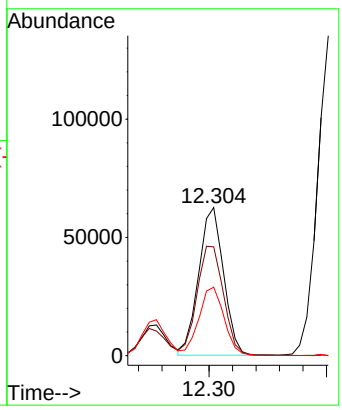




#81
trans-1,4-Dichloro-2-butene
Concen: 101.673 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 75 Resp: 9183

Ion	Ratio	Lower	Upper
75	100		
53	79.2	66.0	99.0
89	47.2	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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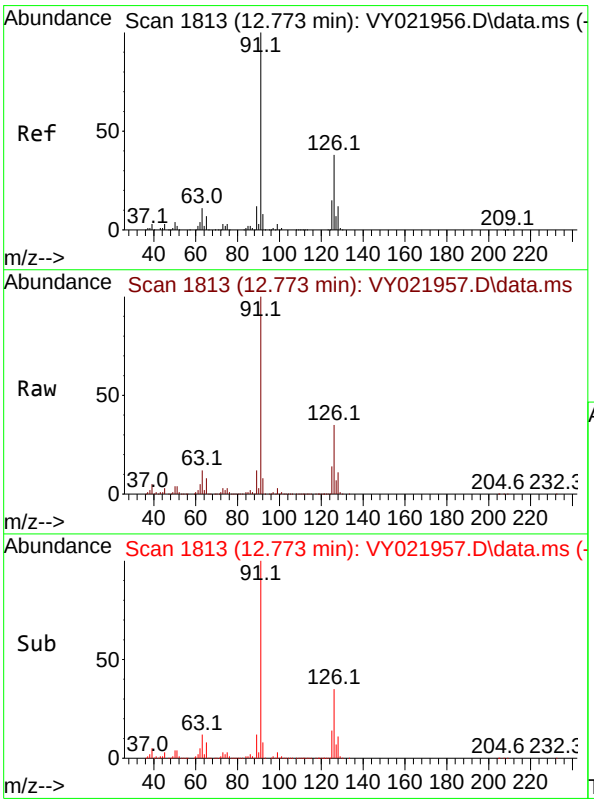
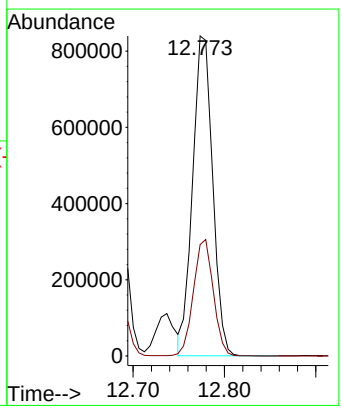
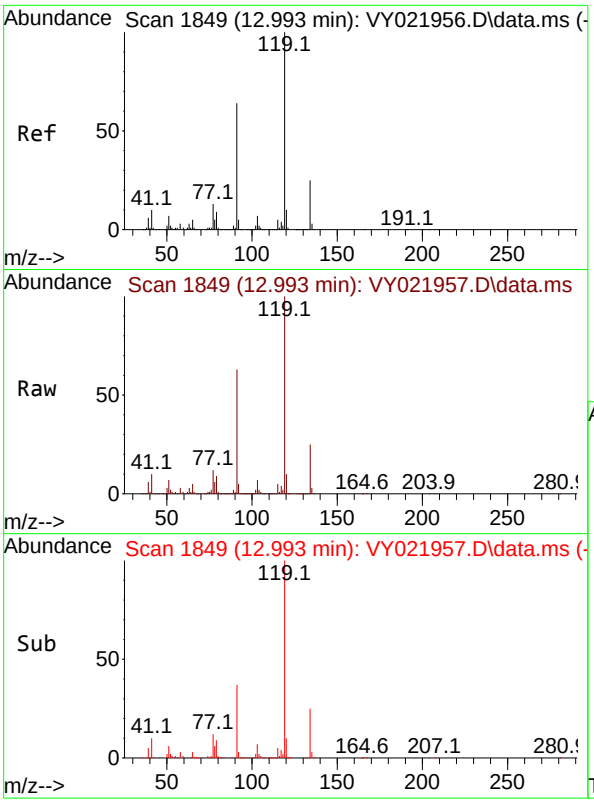


#82
4-Chlorotoluene
Concen: 104.825 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 91 Resp: 1280377

Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.9	53.8

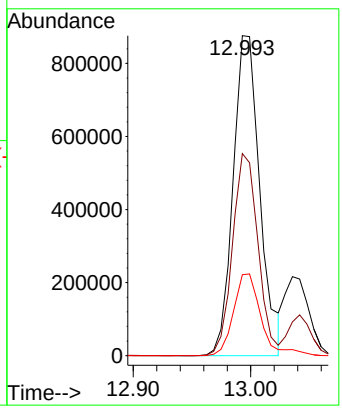




#83
tert-Butylbenzene
Concen: 110.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:119 Resp: 138392

Ion	Ratio	Lower	Upper
119	100		
91	60.3	30.3	90.9
134	26.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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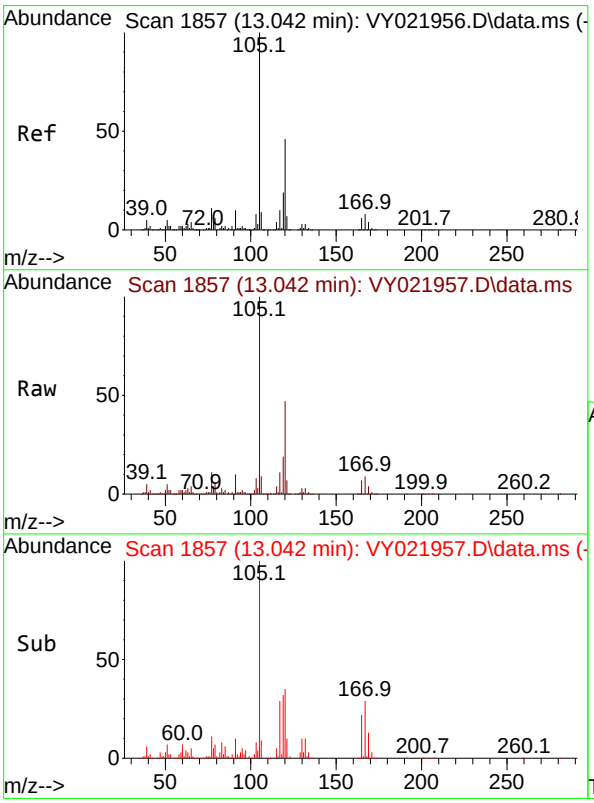
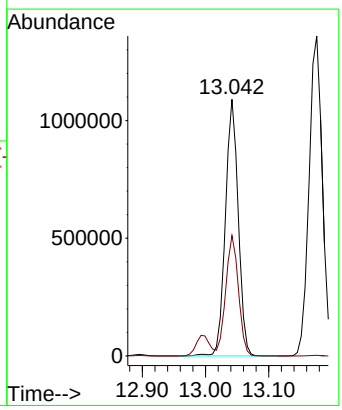
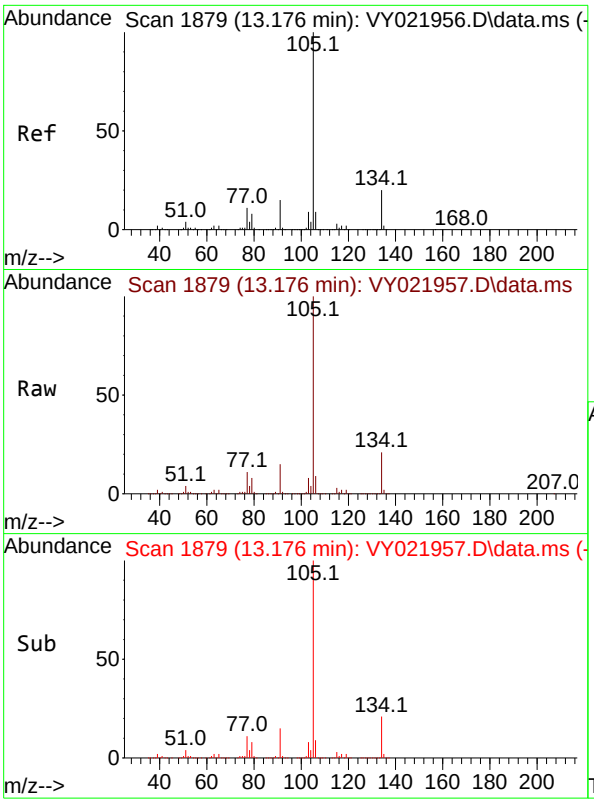


#84
1,2,4-Trimethylbenzene
Concen: 109.940 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:105 Resp: 1537175

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.4	70.0

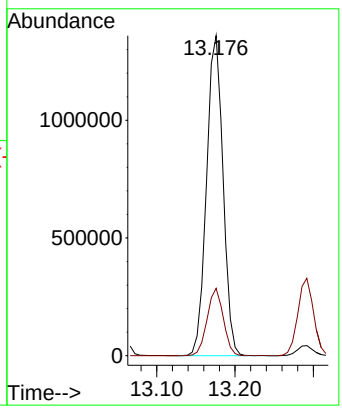




#85
sec-Butylbenzene
Concen: 107.920 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:105 Resp: 197982

Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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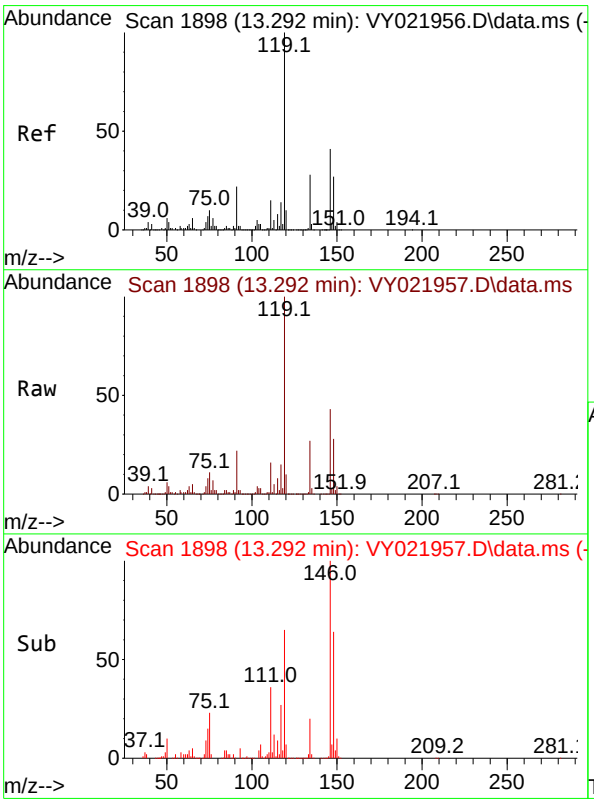
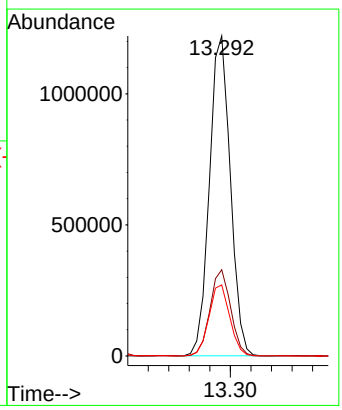
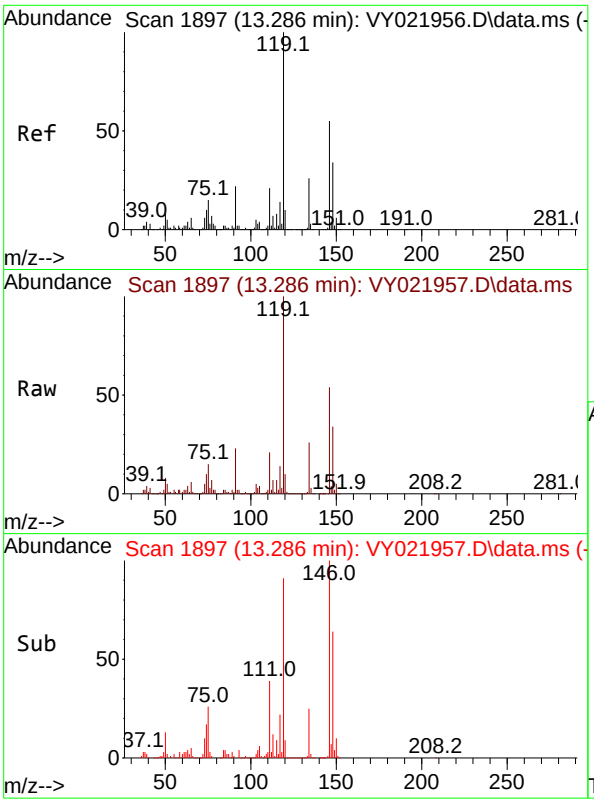


#86
p-Isopropyltoluene
Concen: 110.405 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:119 Resp: 1719877

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.6	40.7
91	22.1	11.0	33.0

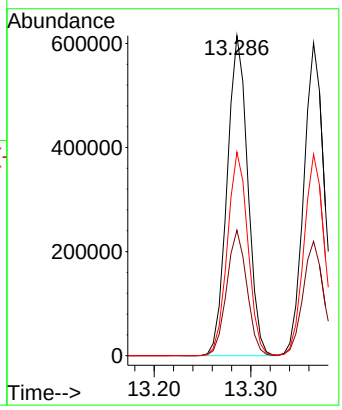




#87
1,3-Dichlorobenzene
Concen: 104.350 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:146 Resp: 90857

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.5
148	63.3	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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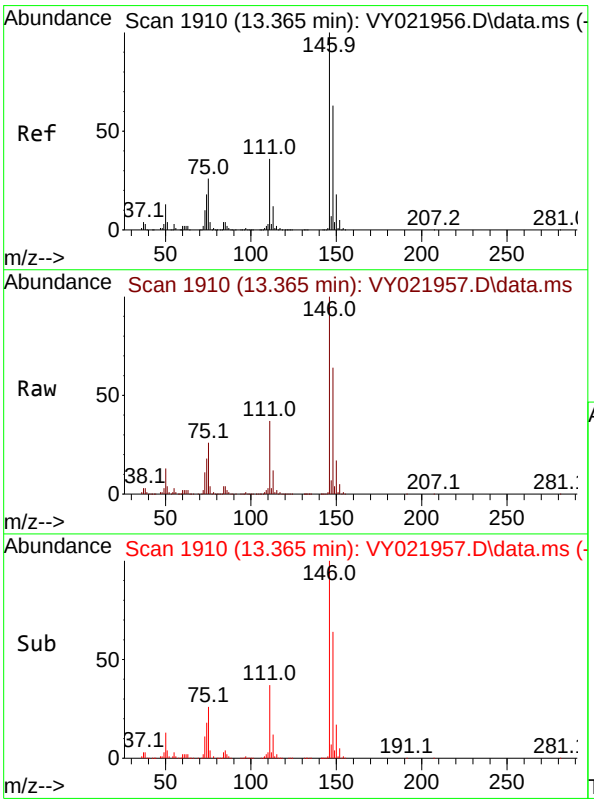
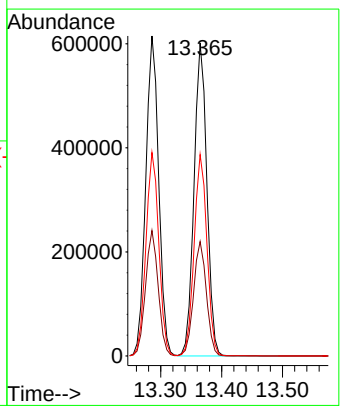
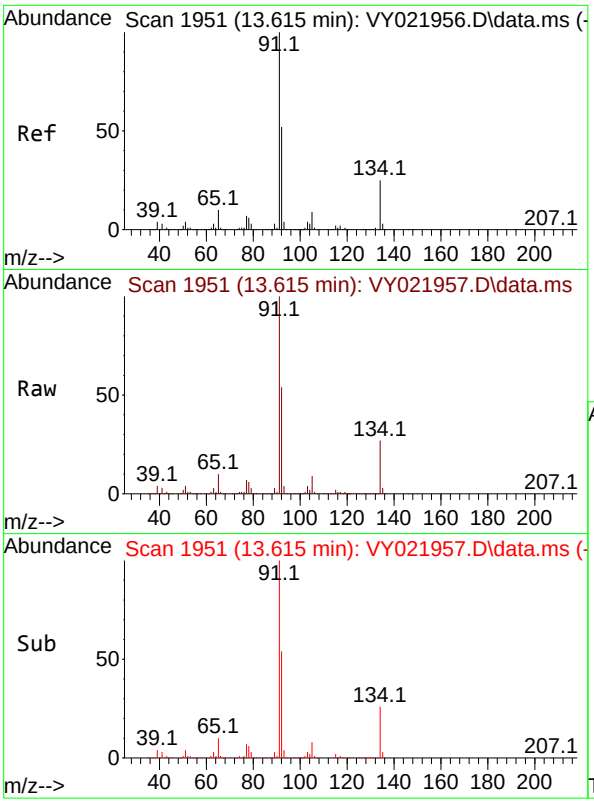


#88
1,4-Dichlorobenzene
Concen: 102.083 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:146 Resp: 880300

Ion	Ratio	Lower	Upper
146	100		
111	36.6	19.2	57.6
148	64.3	32.0	96.0

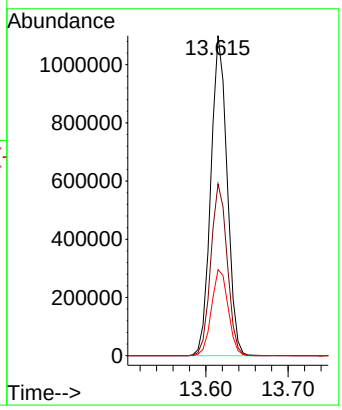




#89
n-Butylbenzene
Concen: 108.535 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 91 Resp: 151123

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.5	79.5
134	27.5	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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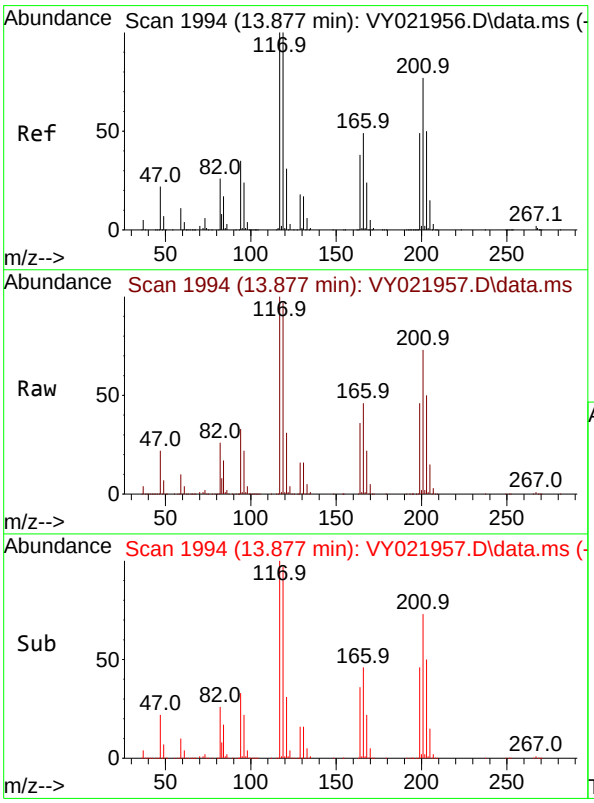
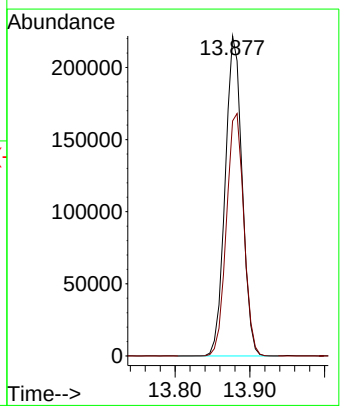
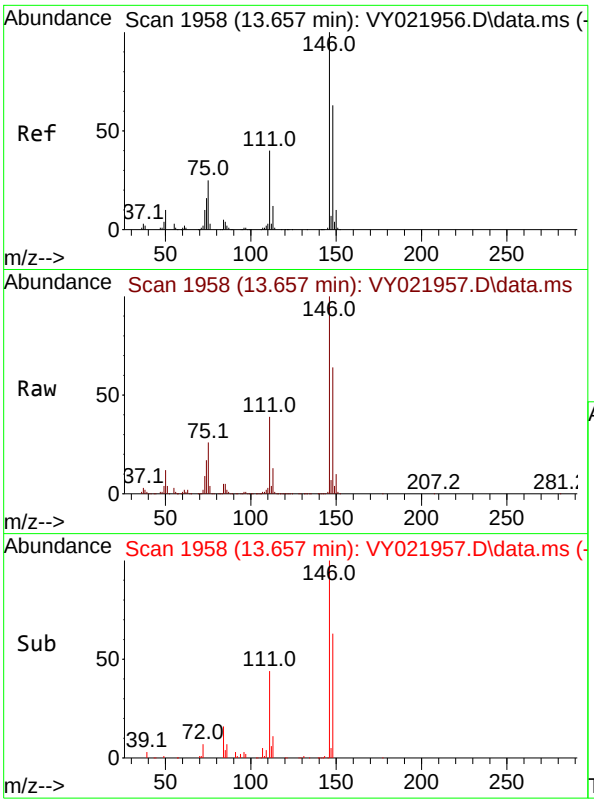


#90
Hexachloroethane
Concen: 102.221 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:117 Resp: 349860

Ion	Ratio	Lower	Upper
117	100		
201	77.9	38.7	116.1

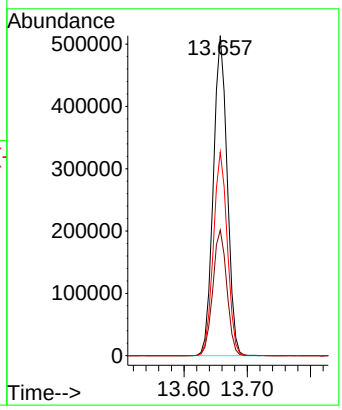




#91
1,2-Dichlorobenzene
Concen: 102.789 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:146 Resp: 78060

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.7	59.1
148	63.8	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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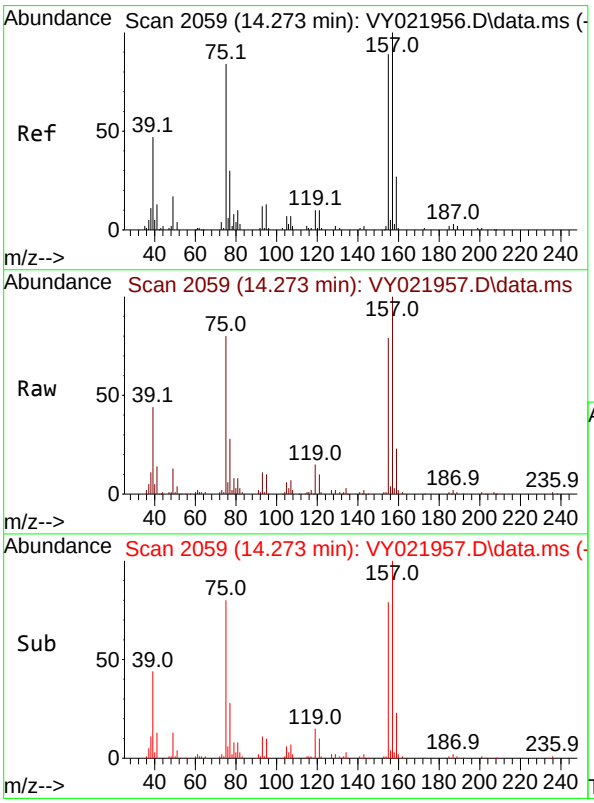
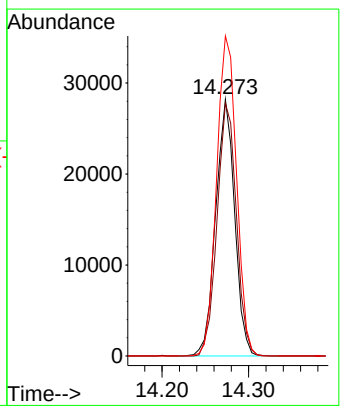
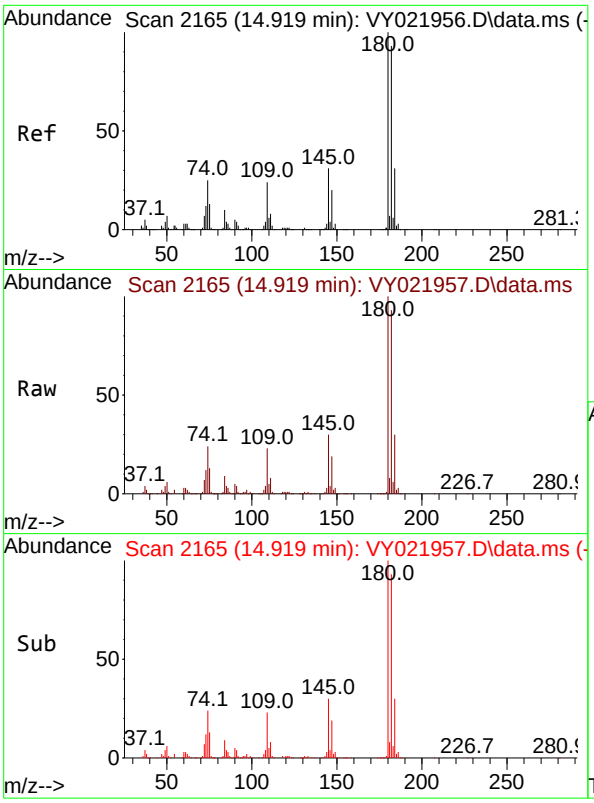


#92
1,2-Dibromo-3-Chloropropane
Concen: 94.503 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion: 75 Resp: 43006

Ion	Ratio	Lower	Upper
75	100		
155	99.9	50.7	152.3
157	130.7	62.6	187.8

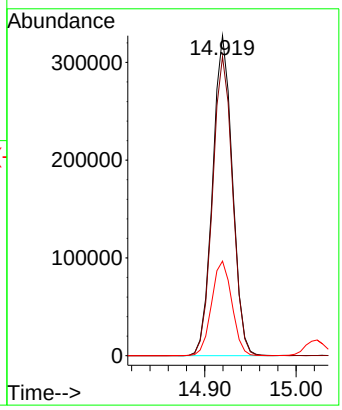




#93
1,2,4-Trichlorobenzene
Concen: 114.465 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:180 Resp: 49259

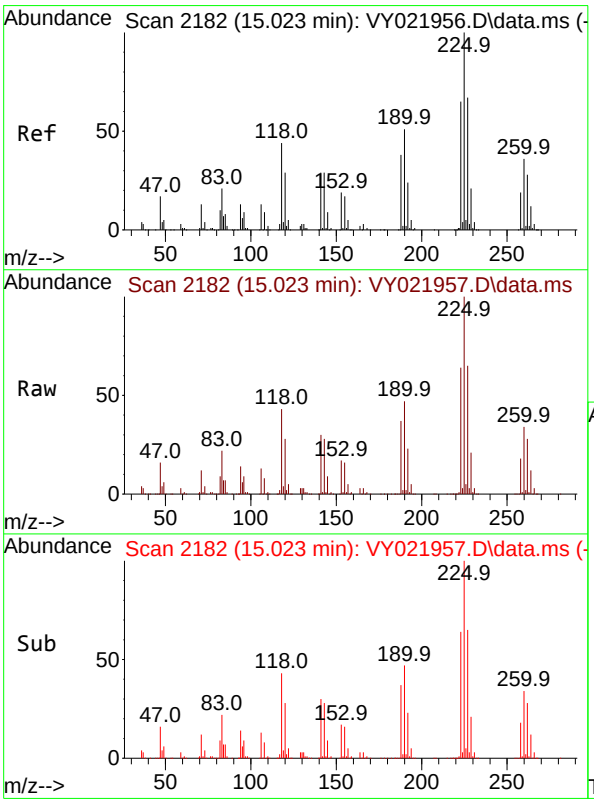
Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.1	141.4
145	30.3	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

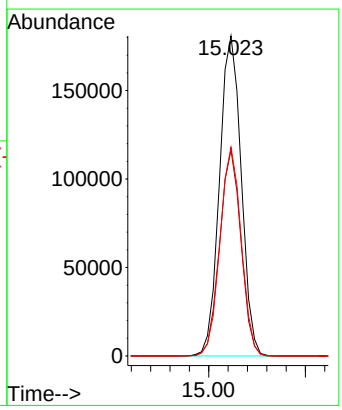
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

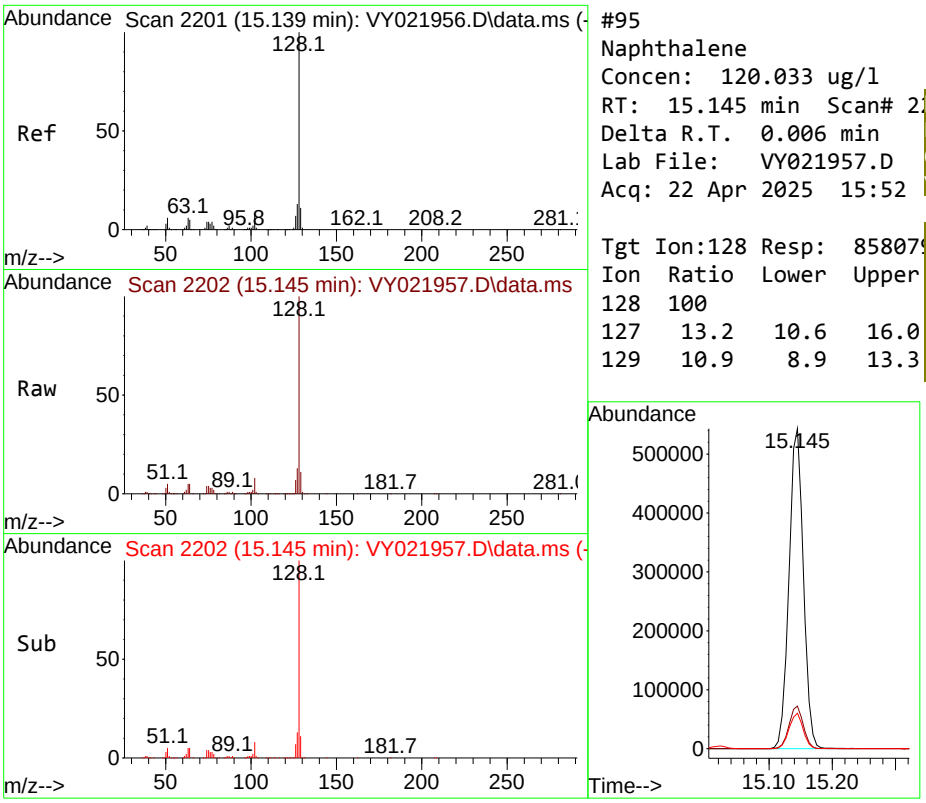


#94
Hexachlorobutadiene
Concen: 106.397 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:225 Resp: 281711

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.5
227	63.6	32.3	96.9





#95
Naphthalene
Concen: 120.033 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

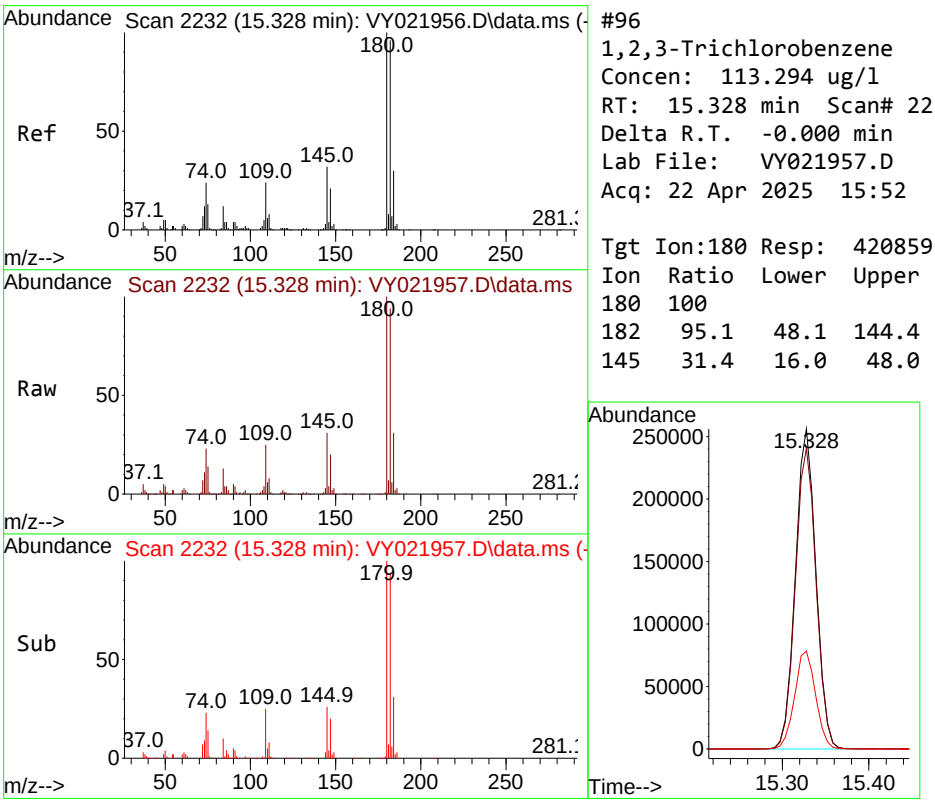
Tgt Ion:128 Resp: 85807

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	10.9	8.9	13.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#96
1,2,3-Trichlorobenzene
Concen: 113.294 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY021957.D
Acq: 22 Apr 2025 15:52

Tgt Ion:180 Resp: 420859

Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.1	144.4
145	31.4	16.0	48.0

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 23 02:13:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	355777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	536479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	502246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	256233	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	455676	138.662	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 277.320%#			
35) Dibromofluoromethane	7.634	113	525659	148.312	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 296.620%#			
50) Toluene-d8	10.103	98	2029557	151.892	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 303.780%#			
62) 4-Bromofluorobenzene	12.402	95	688061	152.965	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 305.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	431961	142.488	ug/l	99
3) Chloromethane	2.068	50	531232	123.066	ug/l	98
4) Vinyl Chloride	2.202	62	690264	130.127	ug/l	99
5) Bromomethane	2.580	94	587136	128.474	ug/l	100
6) Chloroethane	2.727	64	457467	126.630	ug/l	100
7) Trichlorofluoromethane	3.050	101	968200	138.417	ug/l	98
8) Diethyl Ether	3.452	74	256284	140.770	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	520779	137.247	ug/l	99
10) Methyl Iodide	4.001	142	670370	152.592	ug/l	99
11) Tert butyl alcohol	4.866	59	132009	731.707	ug/l	98
12) 1,1-Dichloroethene	3.781	96	516411	146.010	ug/l	99
13) Acrolein	3.647	56	224148	692.230	ug/l	97
14) Allyl chloride	4.379	41	595004	144.481	ug/l	99
15) Acrylonitrile	5.055	53	471687	707.705	ug/l	99
16) Acetone	3.873	43	303420	747.934	ug/l	93
17) Carbon Disulfide	4.098	76	1556842	138.054	ug/l	99
18) Methyl Acetate	4.379	43	233664	152.216	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	1210655	152.936	ug/l	98
20) Methylene Chloride	4.610	84	526924	126.805	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	568174	143.443	ug/l	96
22) Diisopropyl ether	6.019	45	1331652	145.303	ug/l	99
23) Vinyl Acetate	5.958	43	3706076	750.348	ug/l	99
24) 1,1-Dichloroethane	5.909	63	881143	138.707	ug/l	98
25) 2-Butanone	6.890	43	533125	711.701	ug/l	98
26) 2,2-Dichloropropane	6.884	77	797978	143.320	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	663284	149.760	ug/l	99
28) Bromochloromethane	7.244	49	335269	135.876	ug/l	93
29) Tetrahydrofuran	7.262	42	357581	734.980	ug/l	95
30) Chloroform	7.421	83	986793	140.042	ug/l	98
31) Cyclohexane	7.701	56	759349	139.782	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	903077	141.659	ug/l	99
36) 1,1-Dichloropropene	7.835	75	702870	147.634	ug/l	99
37) Ethyl Acetate	6.982	43	243196	144.169	ug/l	98
38) Carbon Tetrachloride	7.817	117	841409	147.902	ug/l	99
39) Methylcyclohexane	9.103	83	947546	158.153	ug/l	97
40) Benzene	8.079	78	2184995	146.818	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 23 02:13:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	135364	144.765	ug/l	#	90
42) 1,2-Dichloroethane	8.152	62	522909	141.914	ug/l		100
43) Isopropyl Acetate	8.195	43	495904	151.020	ug/l	#	85
44) Trichloroethene	8.866	130	603635	146.435	ug/l		99
45) 1,2-Dichloropropane	9.140	63	473210	143.782	ug/l		100
46) Dibromomethane	9.225	93	300473	145.844	ug/l		99
47) Bromodichloromethane	9.420	83	758771	147.426	ug/l		100
48) Methyl methacrylate	9.219	41	243168	160.190	ug/l		97
49) 1,4-Dioxane	9.225	88	66528	3029.677	ug/l		99
51) 4-Methyl-2-Pentanone	9.994	43	1331129	773.306	ug/l		99
52) Toluene	10.170	92	1470005	152.593	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	683926	154.922	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	804716	153.345	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	405335	147.287	ug/l		99
56) Ethyl methacrylate	10.439	69	530305	168.507	ug/l		99
57) 1,3-Dichloropropane	10.713	76	650614	147.471	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	1292633	840.076	ug/l		98
59) 2-Hexanone	10.756	43	896663	789.752	ug/l		99
60) Dibromochloromethane	10.908	129	574423	150.763	ug/l		100
61) 1,2-Dibromoethane	11.012	107	386950	148.938	ug/l		100
64) Tetrachloroethene	10.646	164	648295	136.828	ug/l		99
65) Chlorobenzene	11.438	112	1644879	146.452	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	584913	147.925	ug/l		100
67) Ethyl Benzene	11.518	91	2859582	155.641	ug/l		99
68) m/p-Xylenes	11.627	106	2270756	310.594	ug/l		99
69) o-Xylene	11.950	106	1079036	160.131	ug/l		99
70) Styrene	11.969	104	1821333	160.979	ug/l		100
71) Bromoform	12.127	173	345783	150.413	ug/l	#	99
73) Isopropylbenzene	12.255	105	2766822	161.622	ug/l		99
74) N-amyl acetate	12.066	43	481095	163.570	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	428838	148.581	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	304860m	135.026	ug/l		
77) Bromobenzene	12.530	156	677176	156.545	ug/l		98
78) n-propylbenzene	12.591	91	3191904	156.567	ug/l		99
79) 2-Chlorotoluene	12.676	91	1838218	155.043	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	2227887	157.948	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	138838	152.337	ug/l		98
82) 4-Chlorotoluene	12.774	91	1879346	152.484	ug/l		99
83) tert-Butylbenzene	12.993	119	2076003	164.108	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	2263509	160.437	ug/l		100
85) sec-Butylbenzene	13.176	105	2910397	157.224	ug/l		99
86) p-Isopropyltoluene	13.292	119	2552924	162.413	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	1339029	152.409	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	1293200	148.621	ug/l		98
89) n-Butylbenzene	13.615	91	2244063	159.720	ug/l		99
90) Hexachloroethane	13.877	117	520392	150.683	ug/l		98
91) 1,2-Dichlorobenzene	13.658	146	1156637	150.940	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	66731	145.323	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	737198	169.770	ug/l		99
94) Hexachlorobutadiene	15.023	225	417808	156.384	ug/l		99
95) Naphthalene	15.145	128	1336140	185.231	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	634152	169.182	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

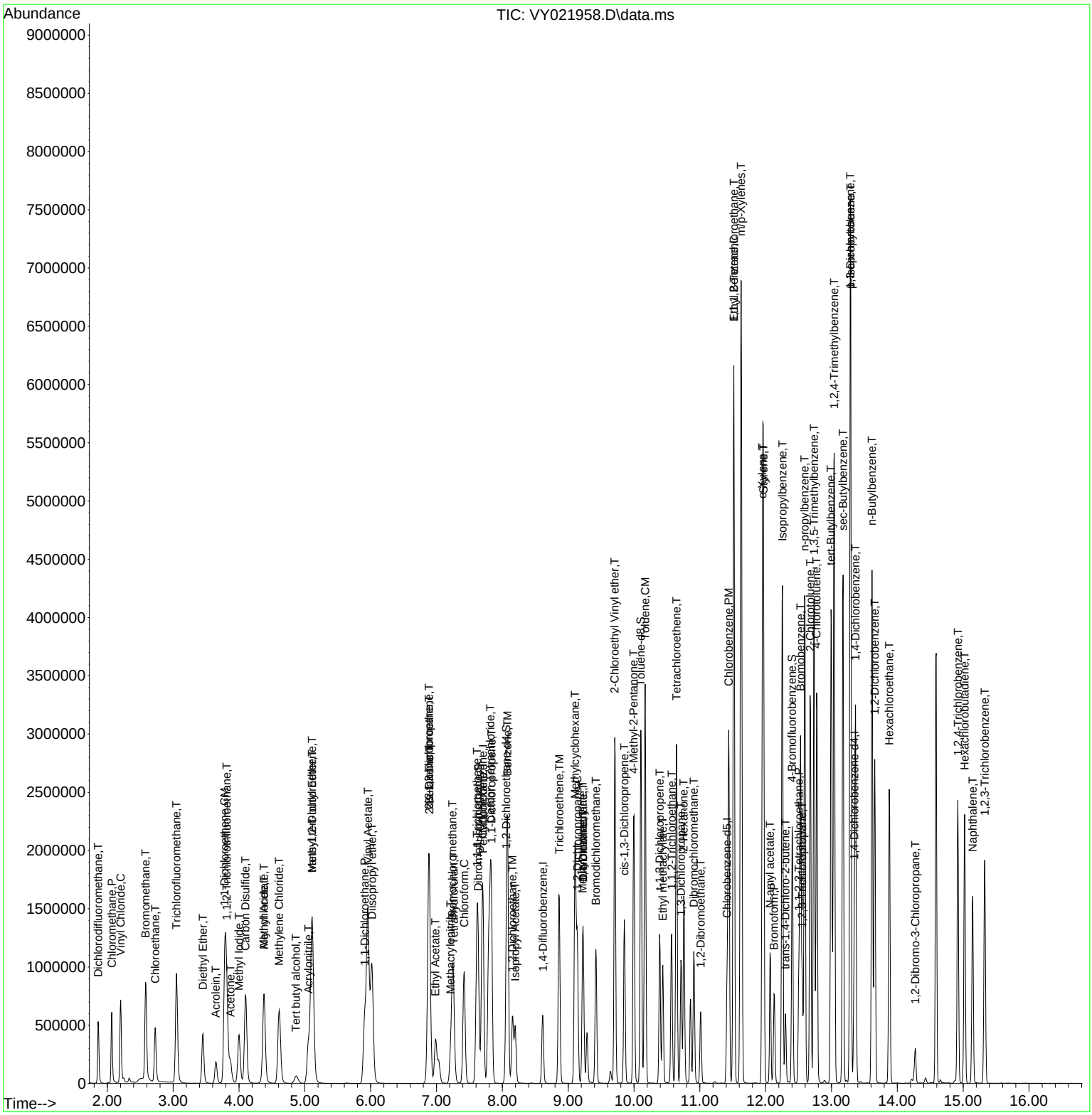
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

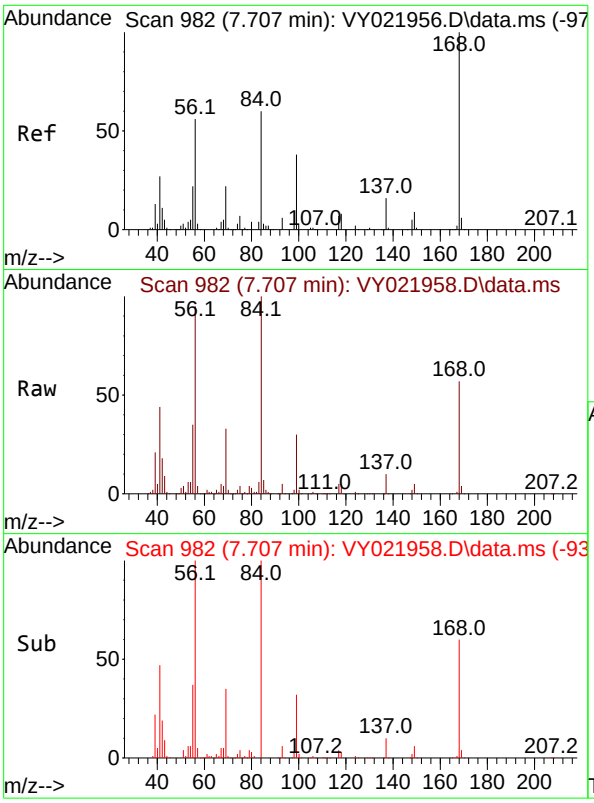
Quant Time: Apr 23 02:13:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

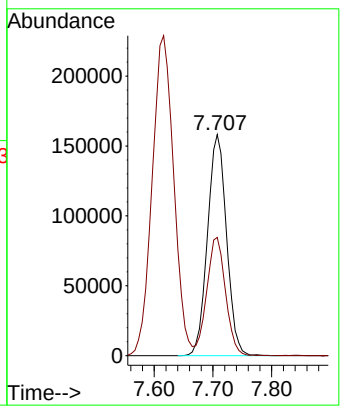




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:168 Resp: 35577

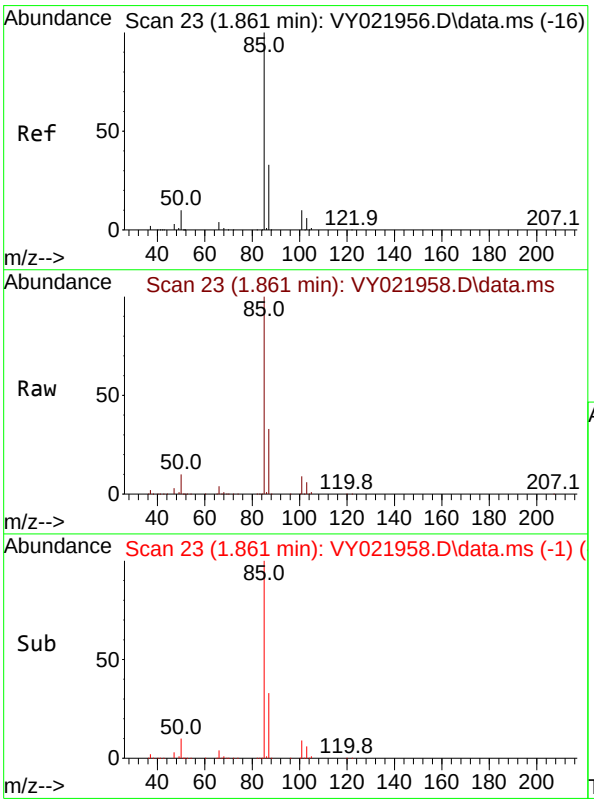
Ion	Ratio	Lower	Upper
168	100		
99	53.4	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

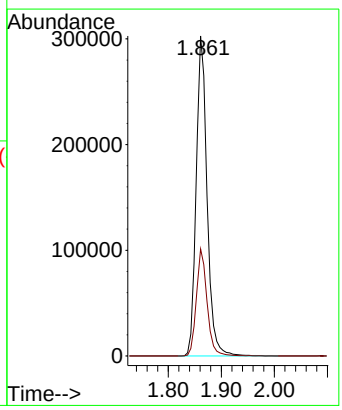
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

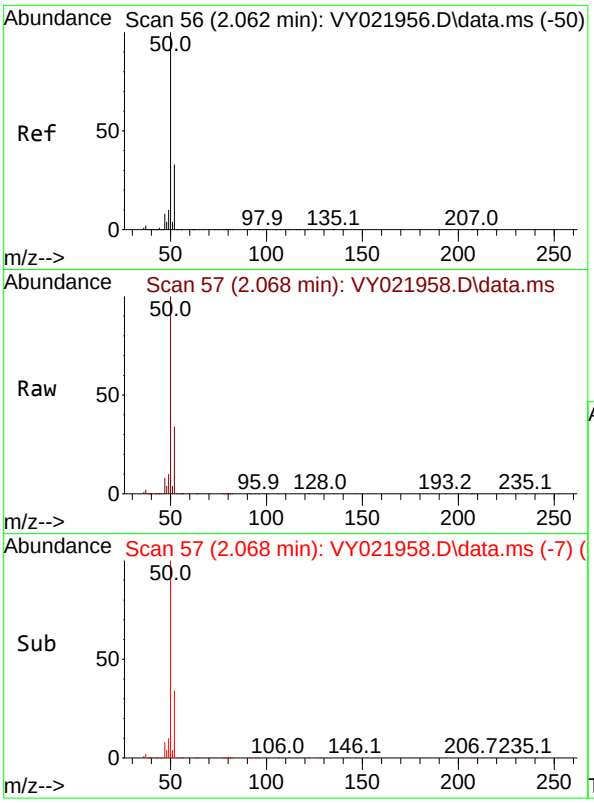


#2
Dichlorodifluoromethane
Concen: 142.488 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 85 Resp: 431961

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.6	49.7

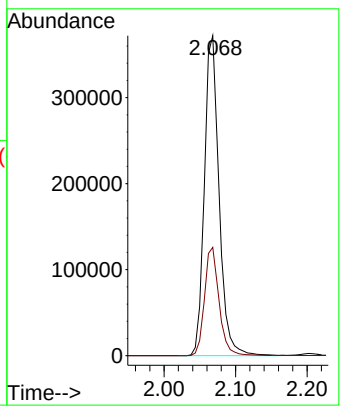




#3
Chloromethane
Concen: 123.066 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 50 Resp: 53123

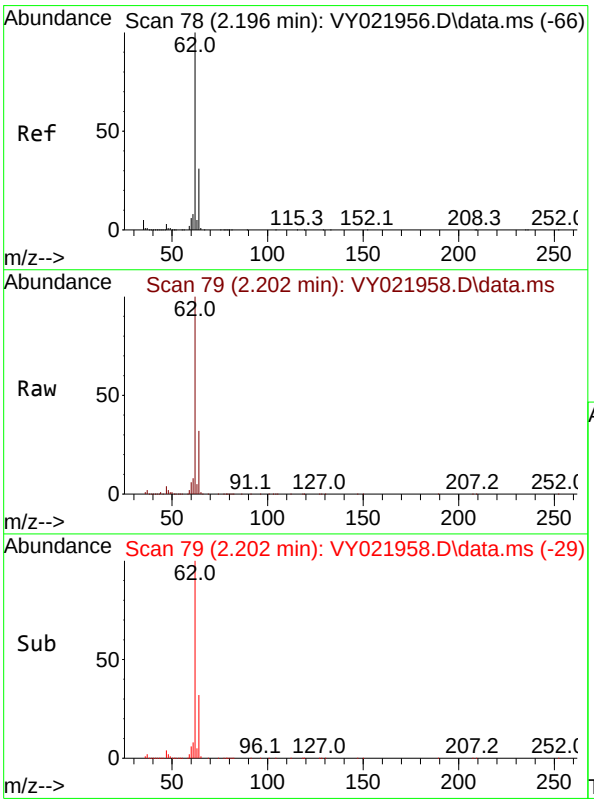
Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

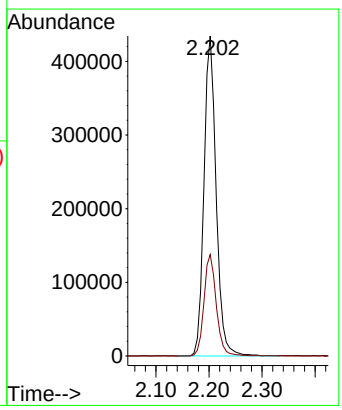
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

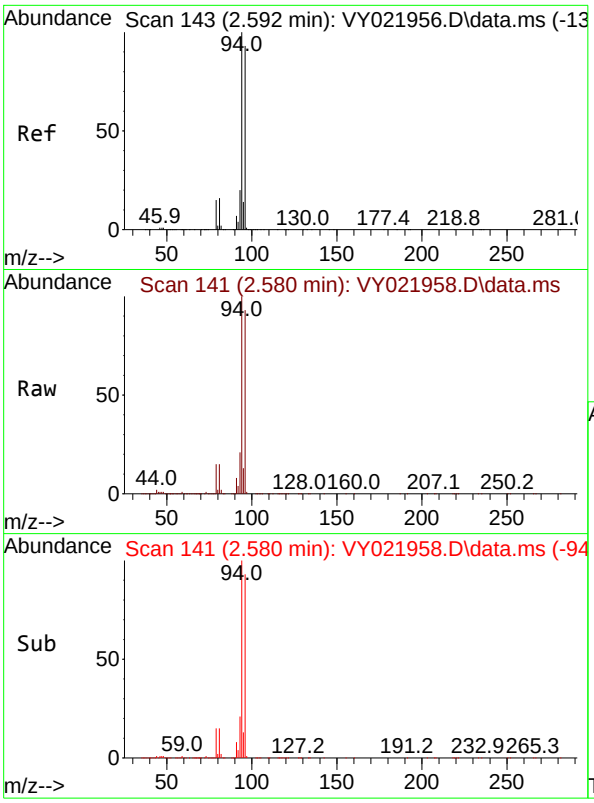


#4
Vinyl Chloride
Concen: 130.127 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 62 Resp: 690264

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.1	37.7





#5
Bromomethane
Concen: 128.474 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

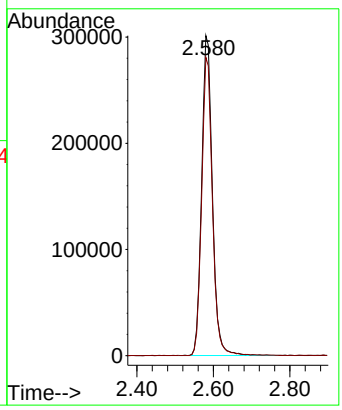
Tgt Ion: 94 Resp: 58713(

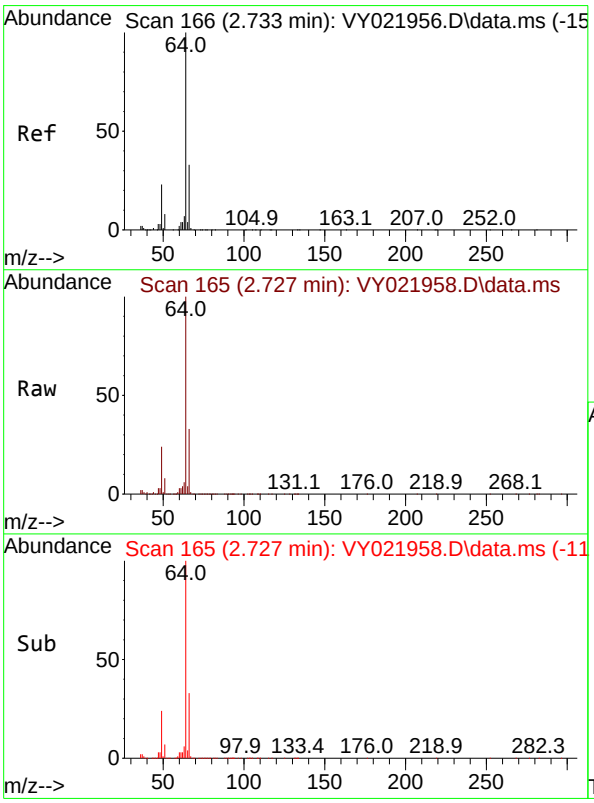
Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	111.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

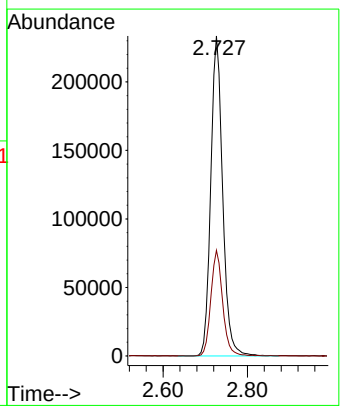


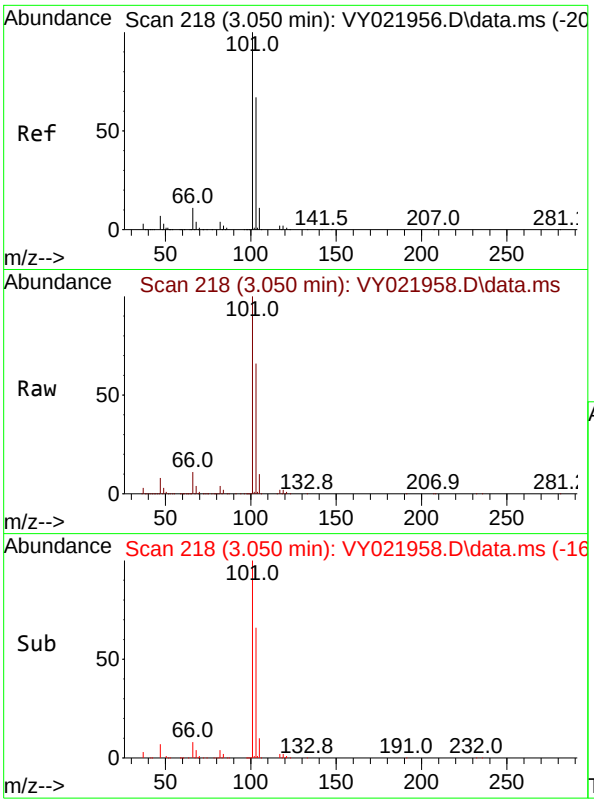


#6
Chloroethane
Concen: 126.630 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 64 Resp: 457467

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.2	39.4

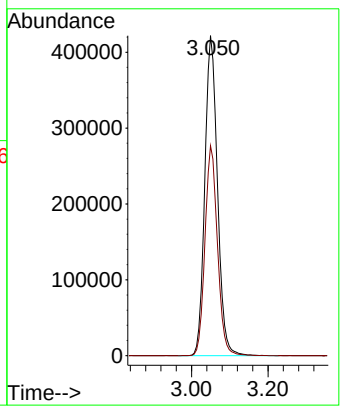




#7
Trichlorofluoromethane
Concen: 138.417 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:101 Resp: 96820

Ion	Ratio	Lower	Upper
101	100		
103	65.6	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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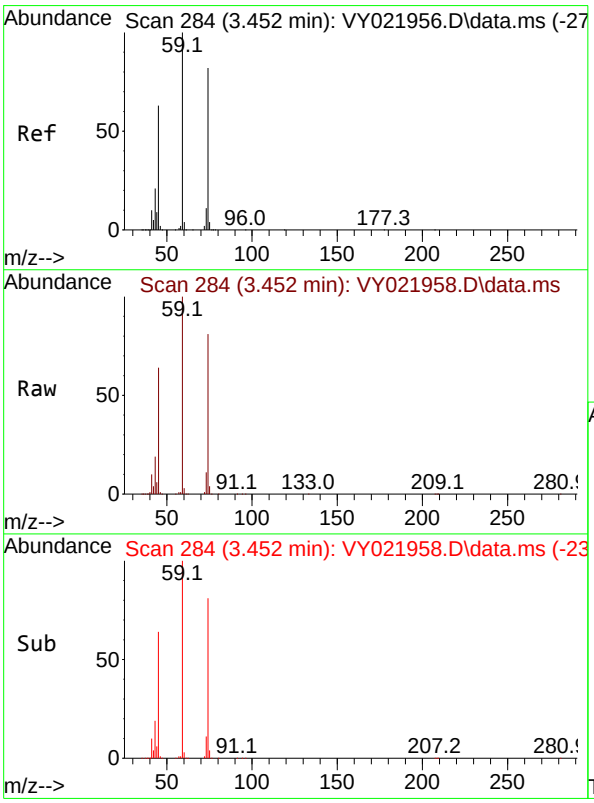
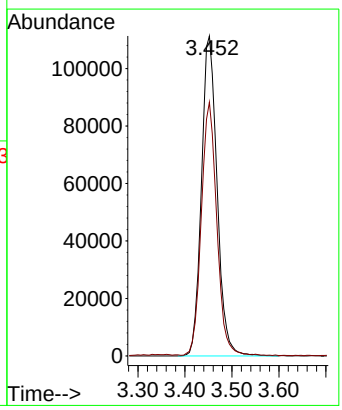
Supervised By :Mahesh Dadoda 04/23/2025

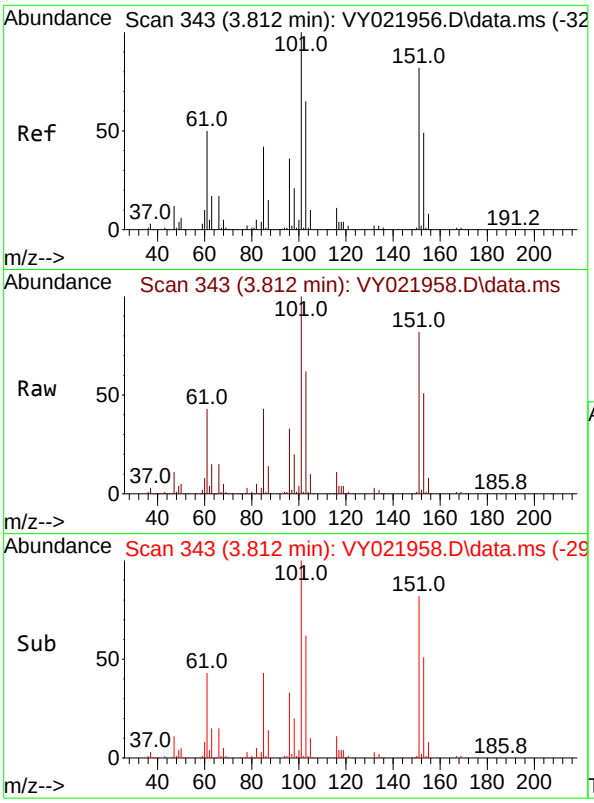


#8
Diethyl Ether
Concen: 140.770 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 74 Resp: 256284

Ion	Ratio	Lower	Upper
74	100		
45	78.2	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 137.247 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:101 Resp: 52077

Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.6	51.8
151	80.9	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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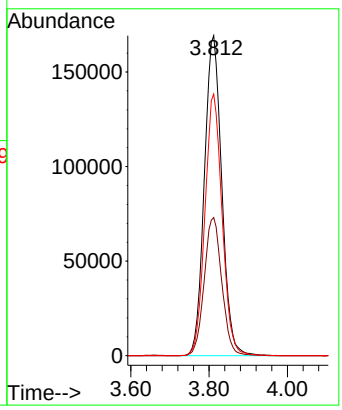
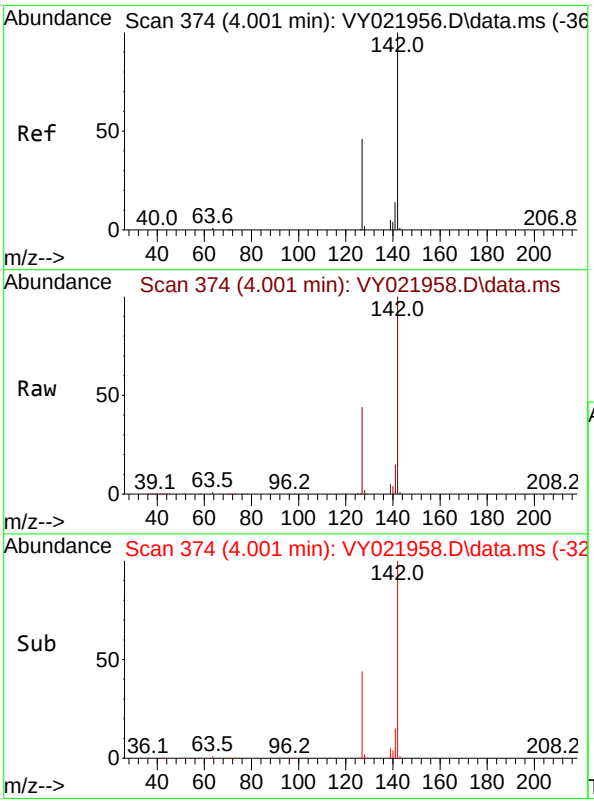
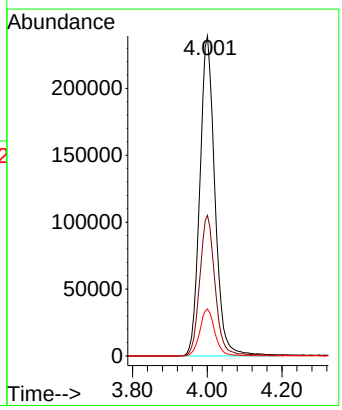


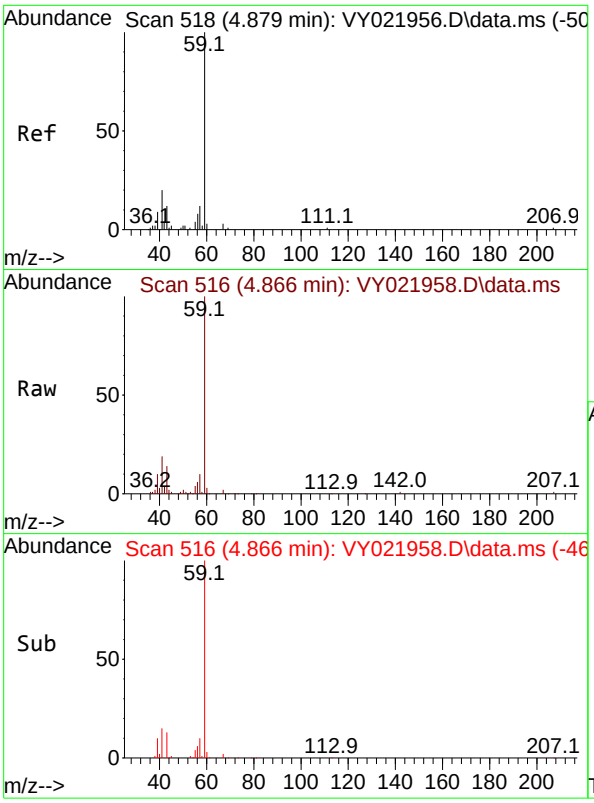


#10
Methyl Iodide
Concen: 152.592 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:142 Resp: 670370

Ion	Ratio	Lower	Upper
142	100		
127	44.8	36.2	54.2
141	14.7	11.7	17.5

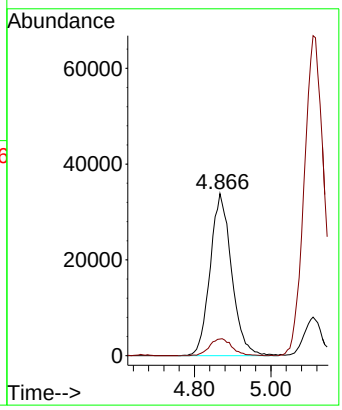




#11
Tert butyl alcohol
Concen: 731.707 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 59 Resp: 13200

Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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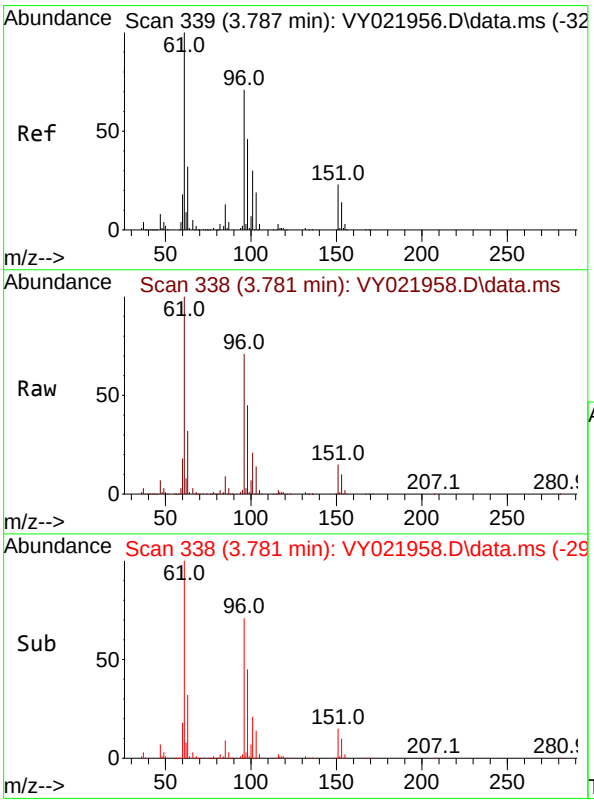
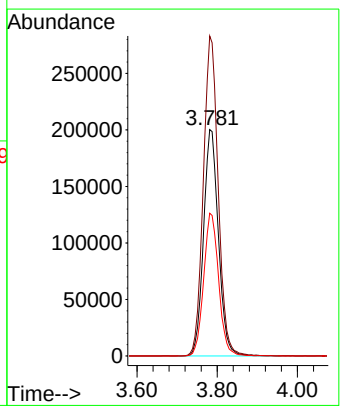
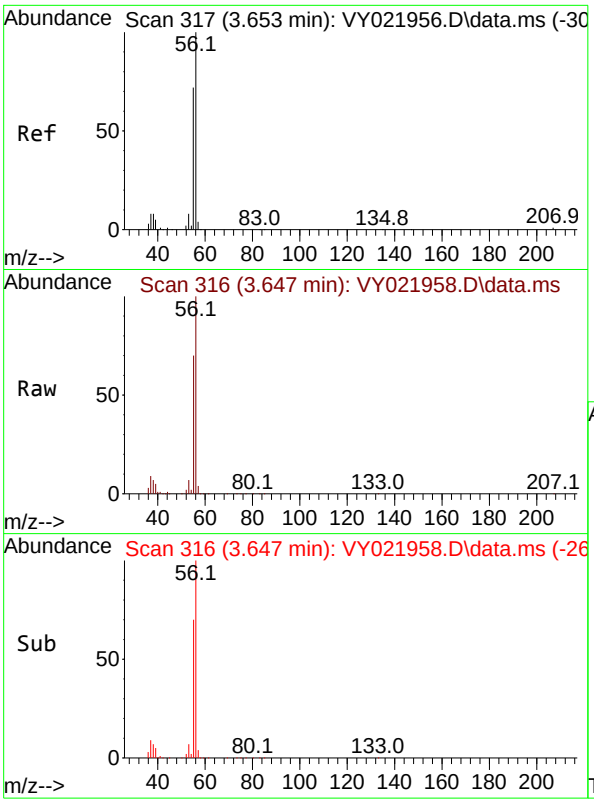


#12
1,1-Dichloroethene
Concen: 146.010 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 96 Resp: 516411

Ion	Ratio	Lower	Upper
96	100		
61	141.3	113.0	169.4
98	63.1	51.4	77.2

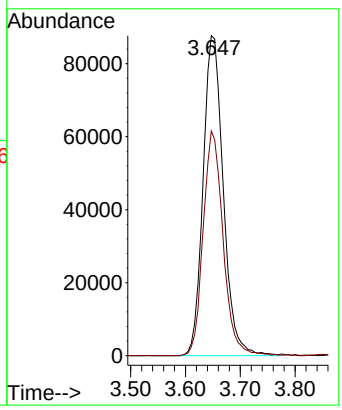




#13
Acrolein
Concen: 692.230 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 56 Resp: 22414

Ion	Ratio	Lower	Upper
56	100		
55	69.3	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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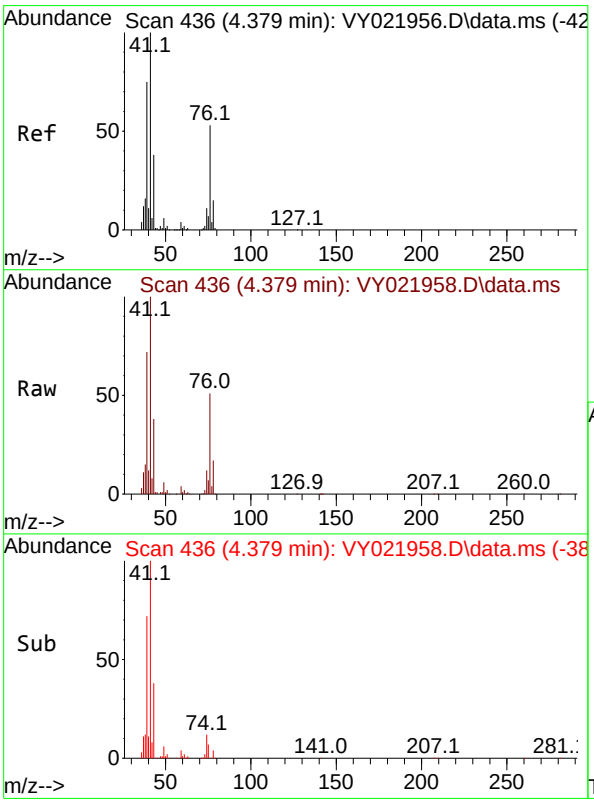
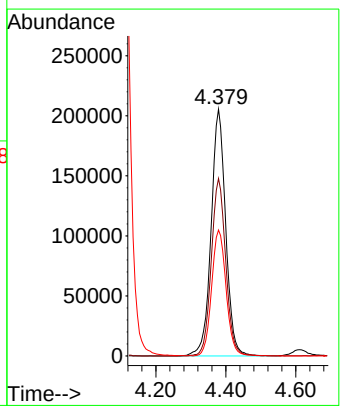
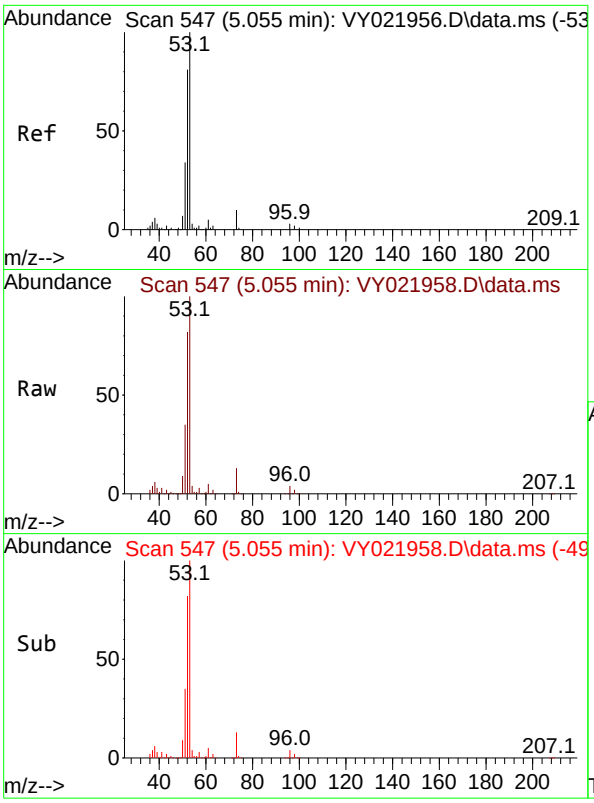


#14
Allyl chloride
Concen: 144.481 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 41 Resp: 595004

Ion	Ratio	Lower	Upper
41	100		
39	71.4	57.2	85.8
76	50.7	39.7	59.5





#15
Acrylonitrile
Concen: 707.705 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 53 Resp: 47168

Ion	Ratio	Lower	Upper
53	100		
52	80.1	65.0	97.6
51	36.1	28.9	43.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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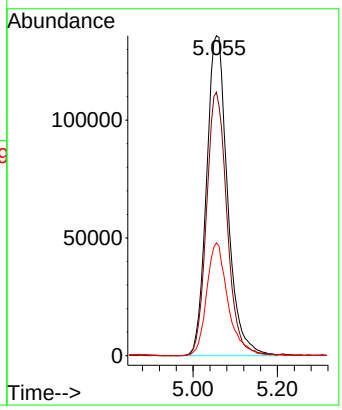
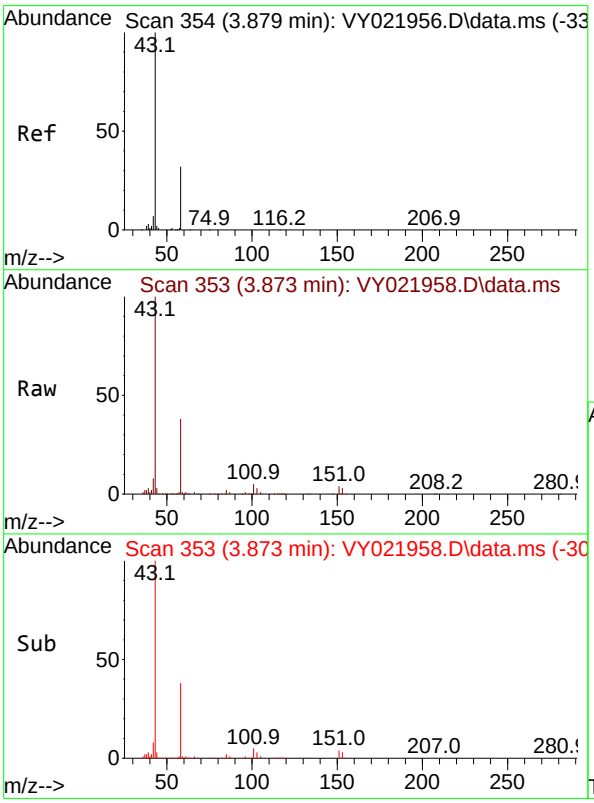
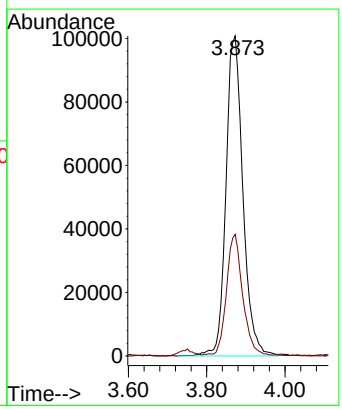


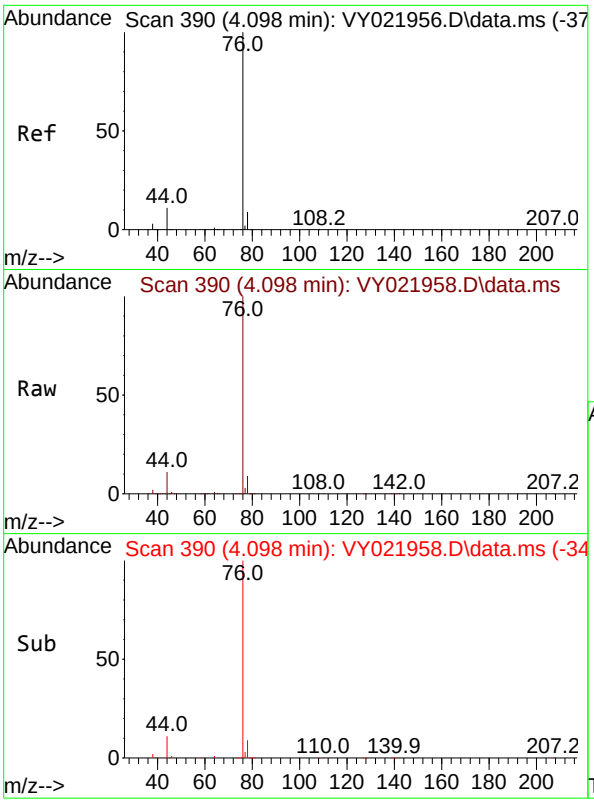


#16
Acetone
Concen: 747.934 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 303420

Ion	Ratio	Lower	Upper
43	100		
58	37.8	27.0	40.4

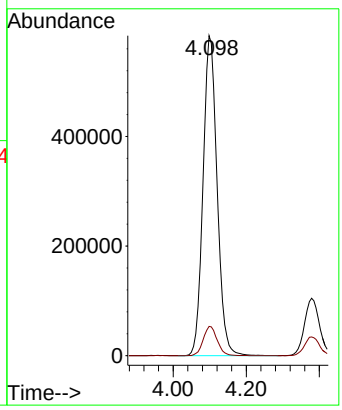




#17
Carbon Disulfide
Concen: 138.054 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 76 Resp: 155684

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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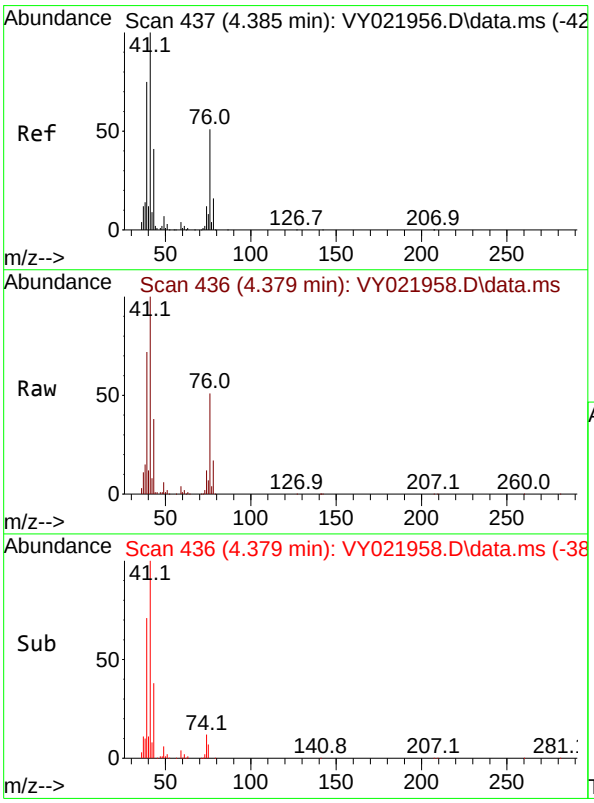
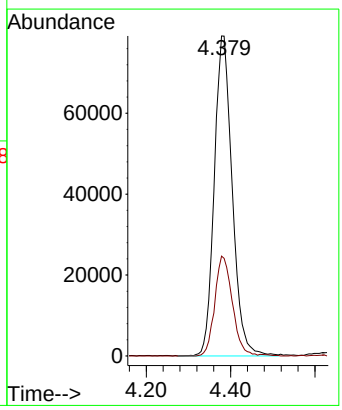
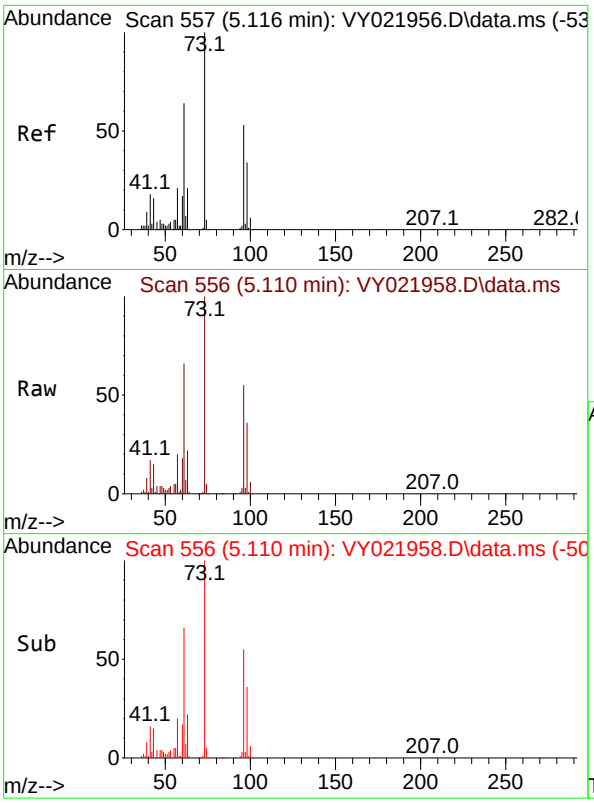


#18
Methyl Acetate
Concen: 152.216 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 233664

Ion	Ratio	Lower	Upper
43	100		
74	30.5	24.2	36.4

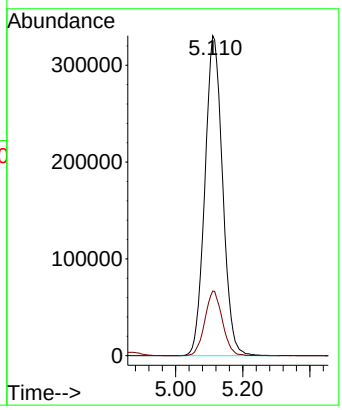




#19
Methyl tert-butyl Ether
Concen: 152.936 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 73 Resp: 121065

Ion	Ratio	Lower	Upper
73	100		
57	20.2	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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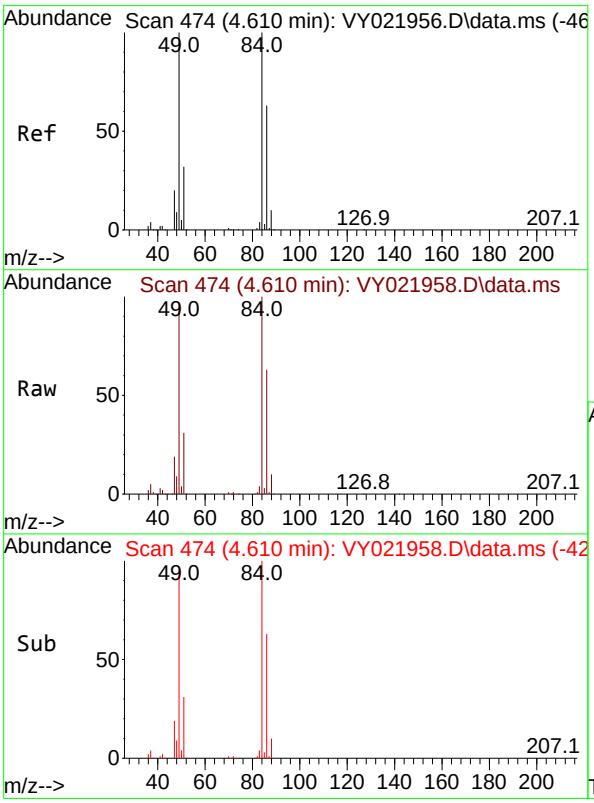
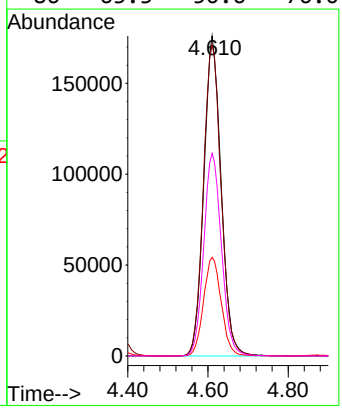
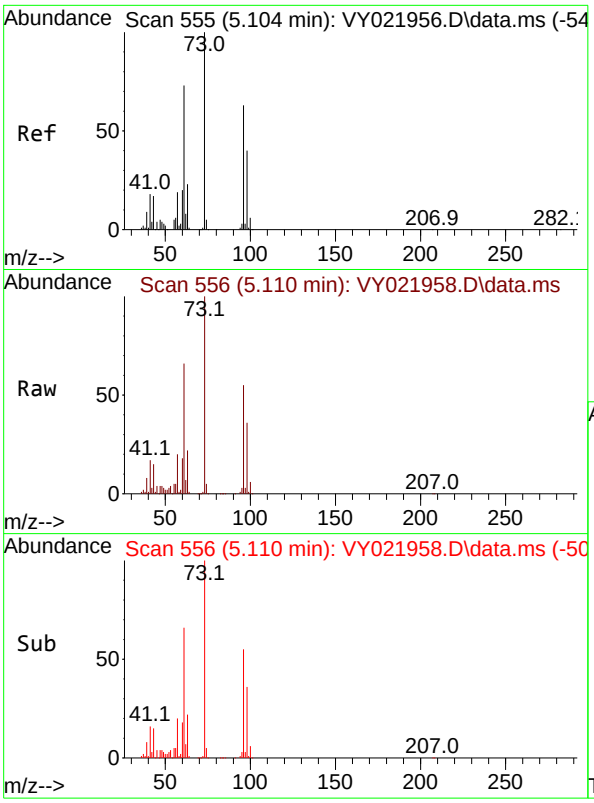


#20
Methylene Chloride
Concen: 126.805 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 84 Resp: 526924

Ion	Ratio	Lower	Upper
84	100		
49	97.3	79.9	119.9
51	30.8	25.4	38.0
86	63.3	50.6	76.0

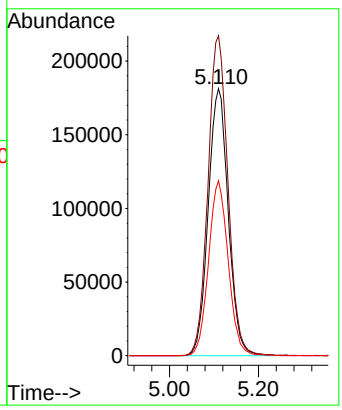




#21
trans-1,2-Dichloroethene
Concen: 143.443 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 96 Resp: 56817

Ion	Ratio	Lower	Upper
96	100		
61	119.7	92.6	138.8
98	65.6	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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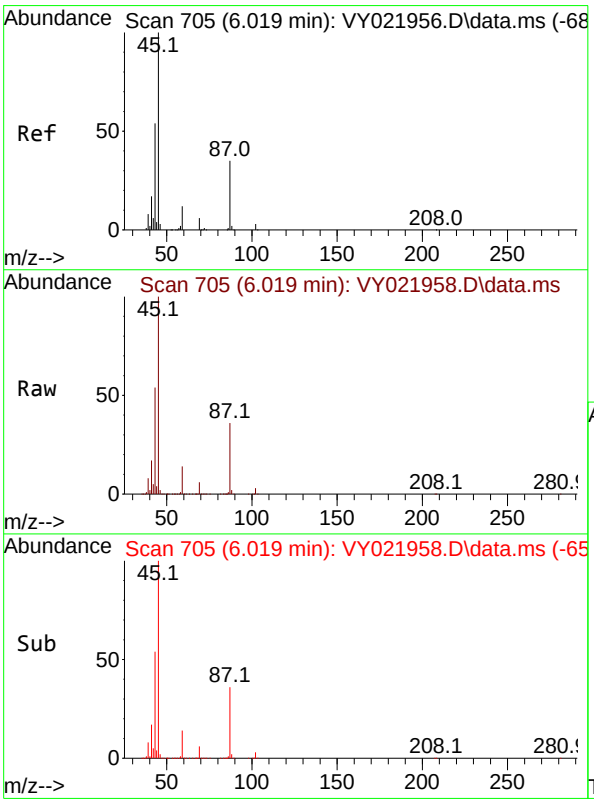
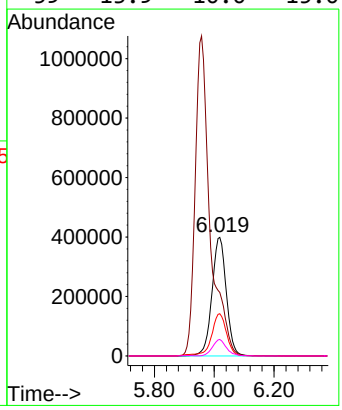
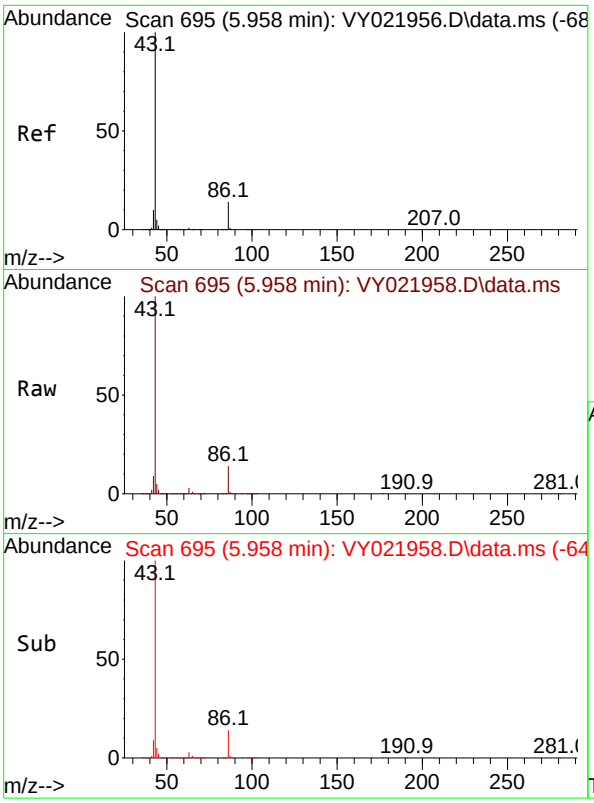


#22
Diisopropyl ether
Concen: 145.303 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 45 Resp: 1331652

Ion	Ratio	Lower	Upper
45	100		
43	53.6	43.6	65.4
87	35.7	28.2	42.4
59	13.9	10.0	15.0

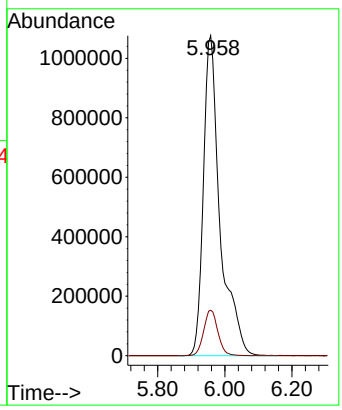




#23
Vinyl Acetate
Concen: 750.348 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 370607

Ion	Ratio	Lower	Upper
43	100		
86	14.2	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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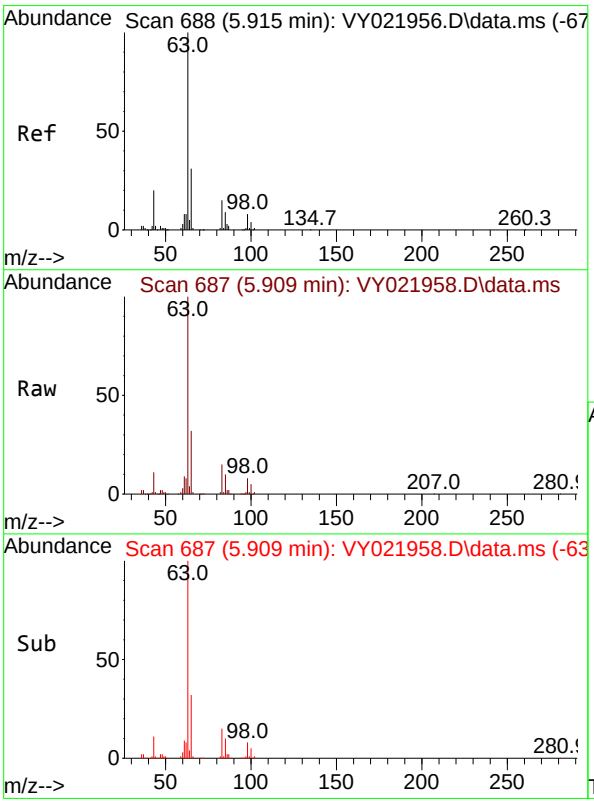
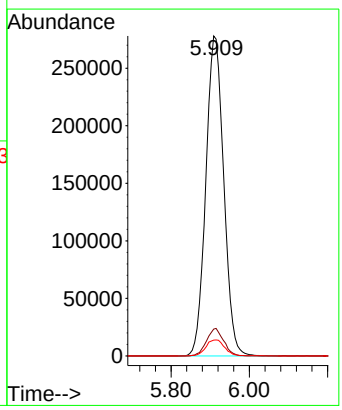
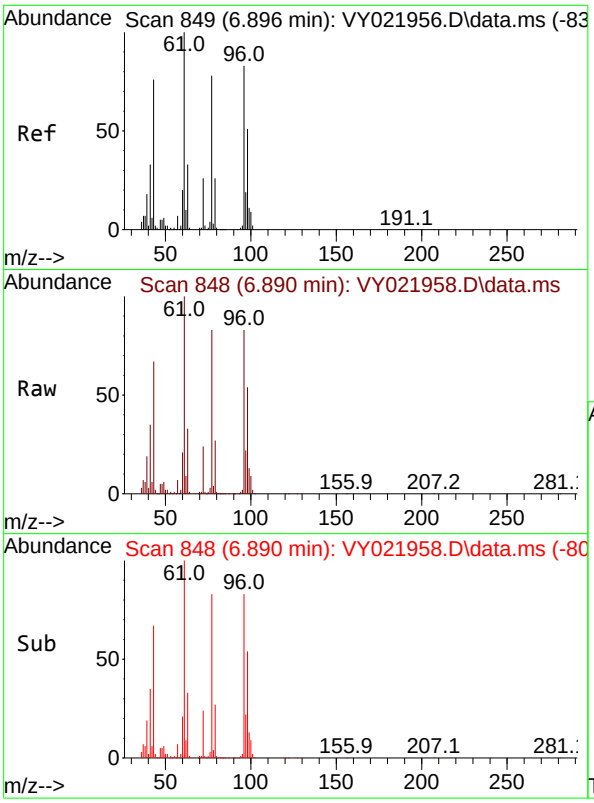


#24
1,1-Dichloroethane
Concen: 138.707 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 63 Resp: 881143

Ion	Ratio	Lower	Upper
63	100		
98	8.4	4.0	11.9
100	4.9	2.0	6.0

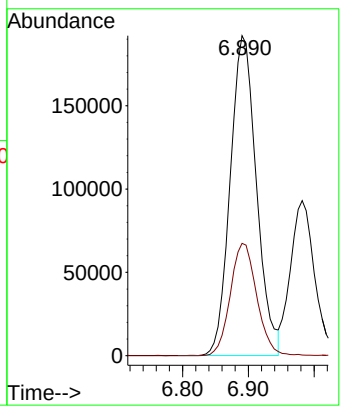




#25
2-Butanone
Concen: 711.701 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 53312

Ion	Ratio	Lower	Upper
43	100		
72	35.1	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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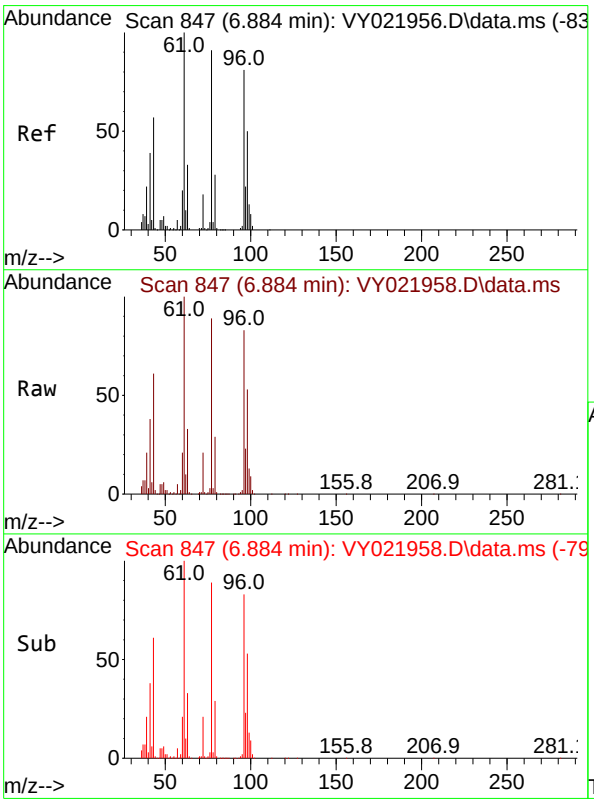
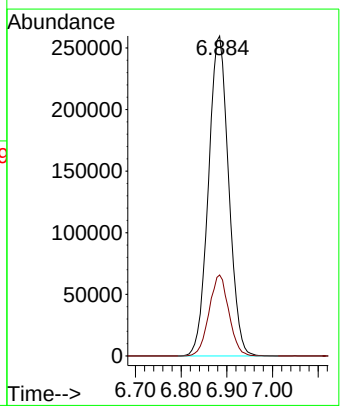
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

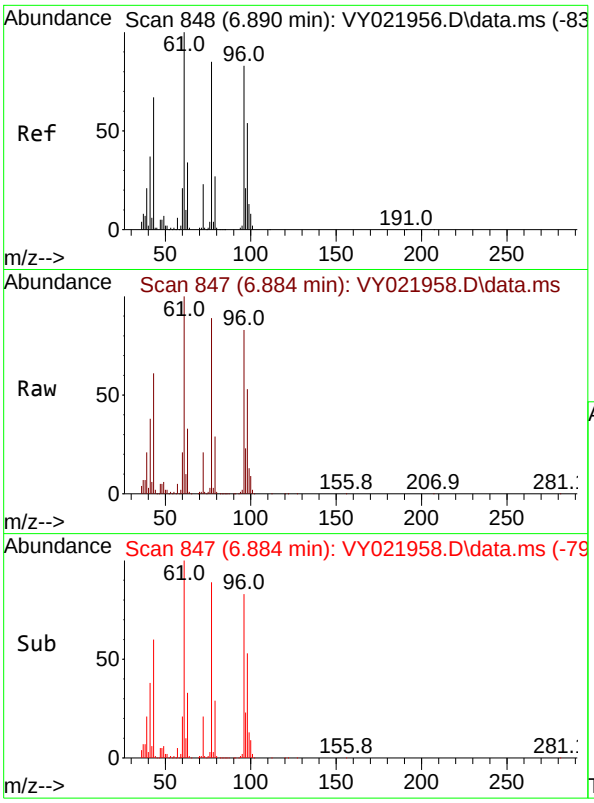


#26
2,2-Dichloropropane
Concen: 143.320 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 77 Resp: 797978

Ion	Ratio	Lower	Upper
77	100		
97	24.8	12.4	37.4

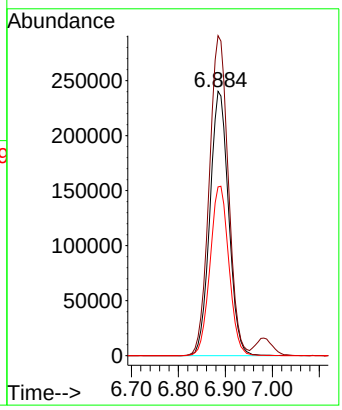




#27
cis-1,2-Dichloroethene
Concen: 149.760 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 96 Resp: 66328

Ion	Ratio	Lower	Upper
96	100		
61	123.8	0.0	251.4
98	64.7	0.0	128.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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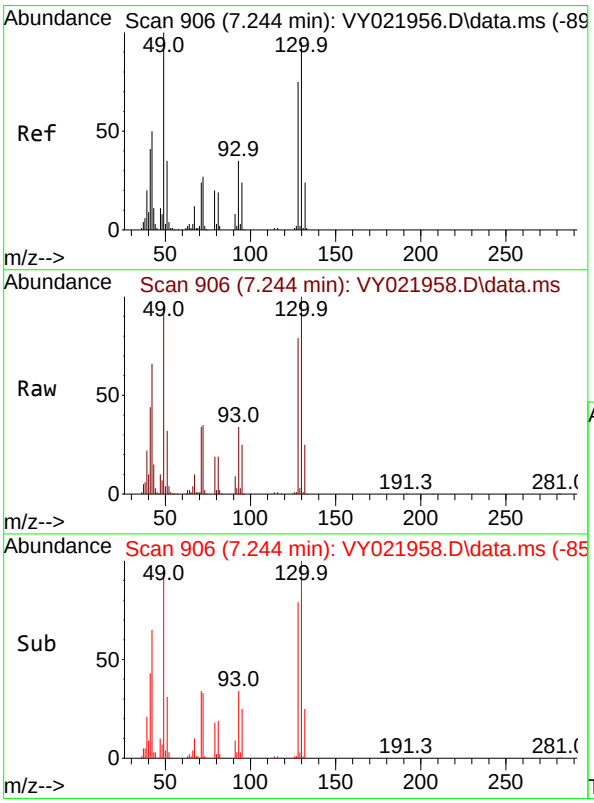
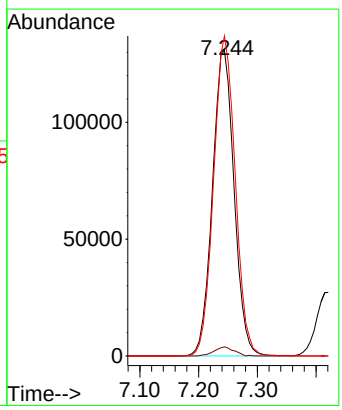
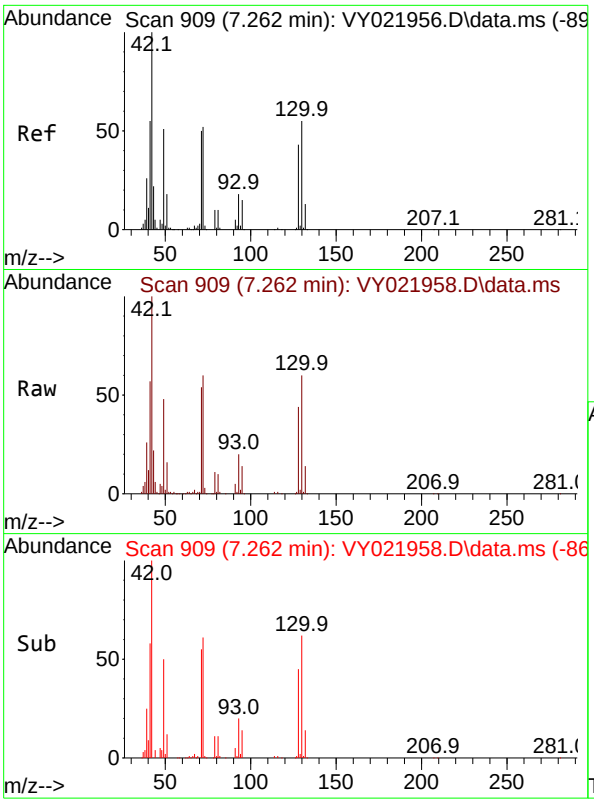


#28
Bromochloromethane
Concen: 135.876 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 49 Resp: 335269

Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	5.0
130	104.5	78.2	117.4

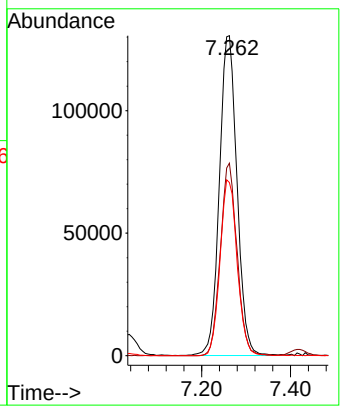




#29
Tetrahydrofuran
Concen: 734.980 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 42 Resp: 35758

Ion	Ratio	Lower	Upper
42	100		
72	57.2	42.6	63.8
71	53.5	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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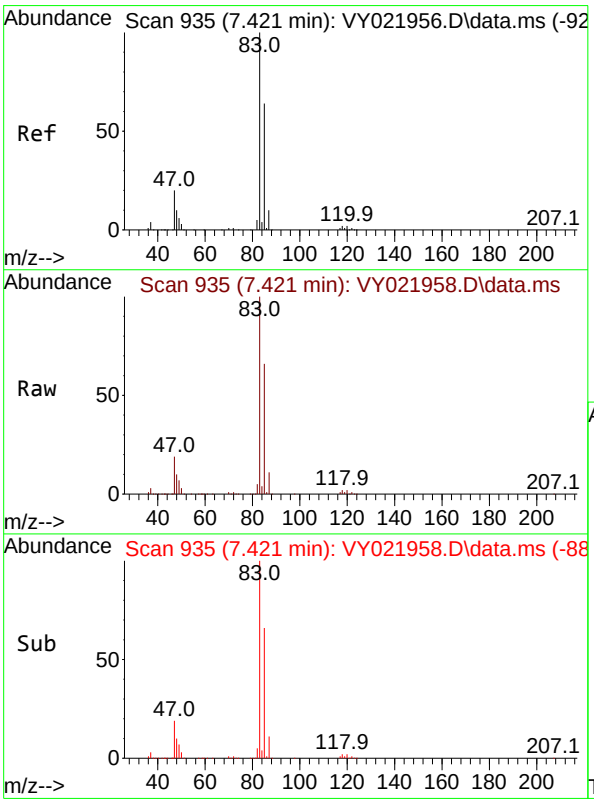
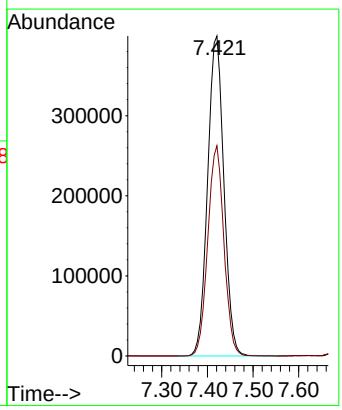
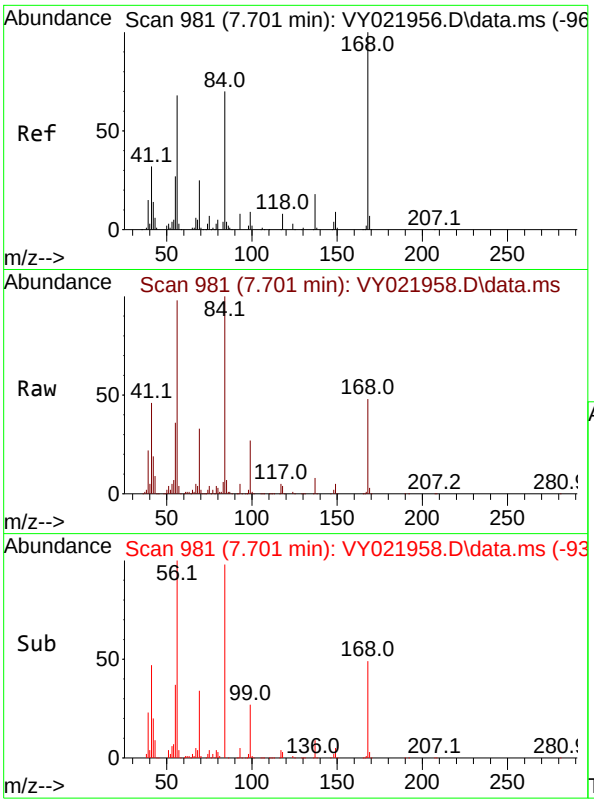


#30
Chloroform
Concen: 140.042 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 83 Resp: 986793

Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.3	76.9

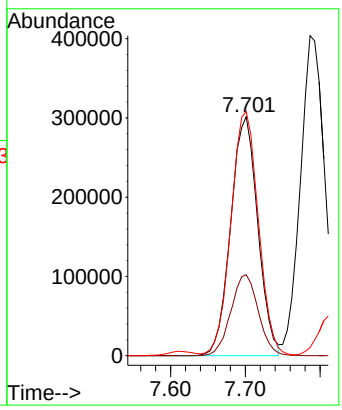




#31
Cyclohexane
Concen: 139.782 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 56 Resp: 75934

Ion	Ratio	Lower	Upper
56	100		
69	33.8	29.4	44.2
84	100.2	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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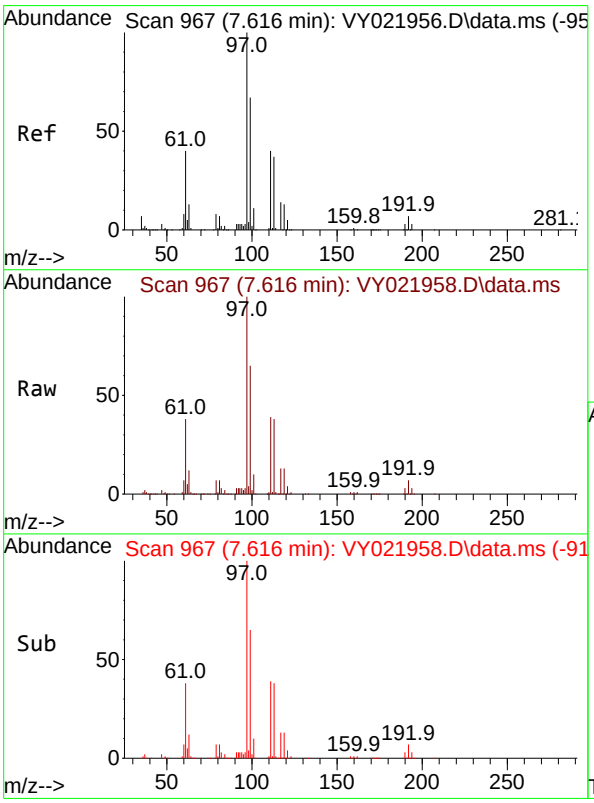
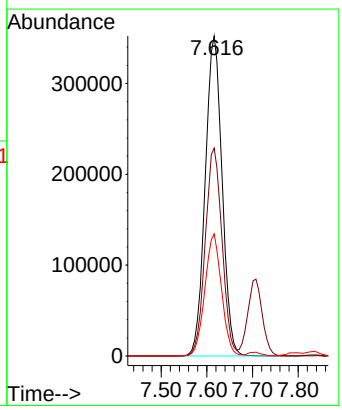
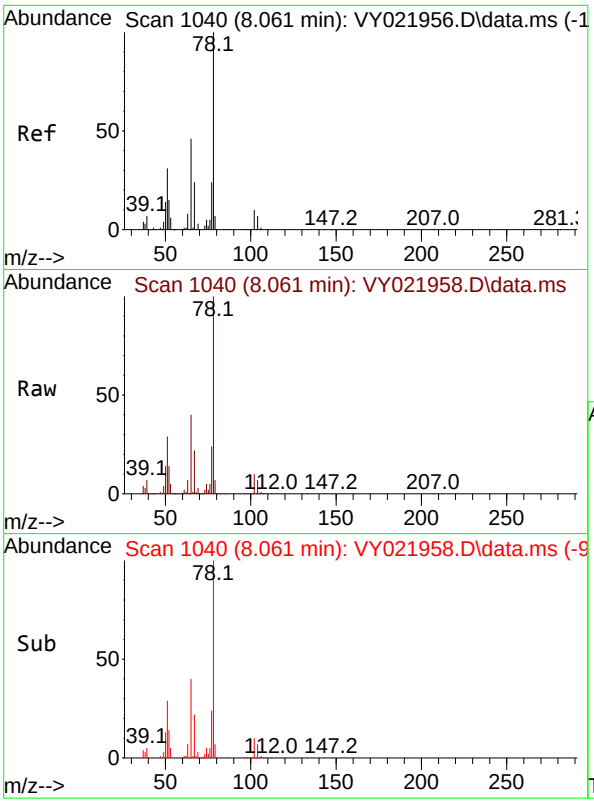


#32
1,1,1-Trichloroethane
Concen: 141.659 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 97 Resp: 903077

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.4	77.2
61	37.7	31.4	47.2

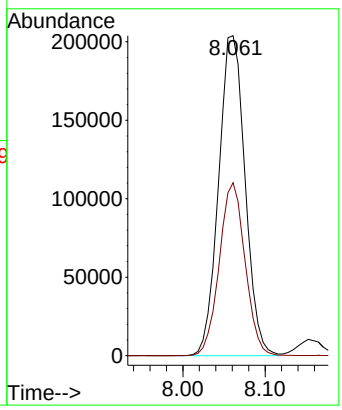




#33
1,2-Dichloroethane-d4
Concen: 138.662 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 65 Resp: 4556

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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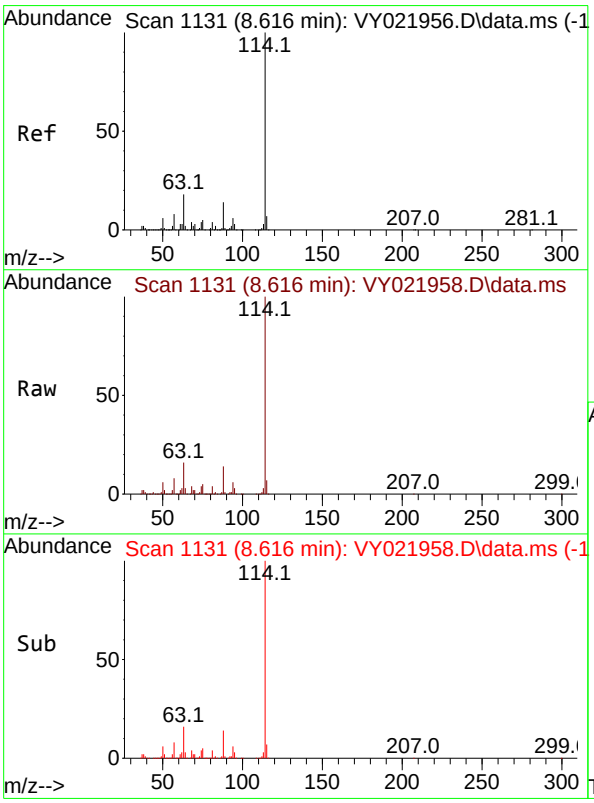
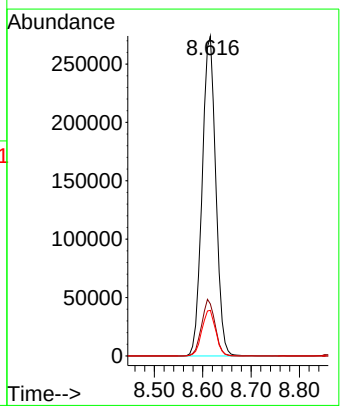
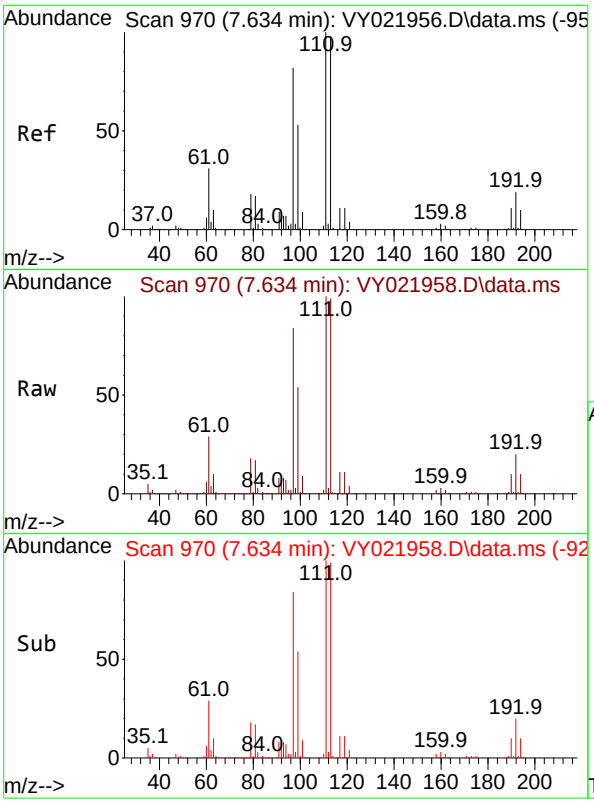


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:114 Resp: 536479

Ion	Ratio	Lower	Upper
114	100		
63	16.3	0.0	35.4
88	14.2	0.0	28.2

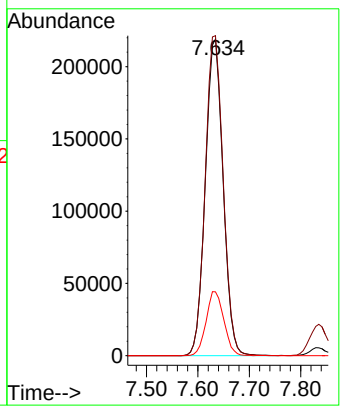




#35
Dibromofluoromethane
Concen: 148.312 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:113 Resp: 52565

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	20.2	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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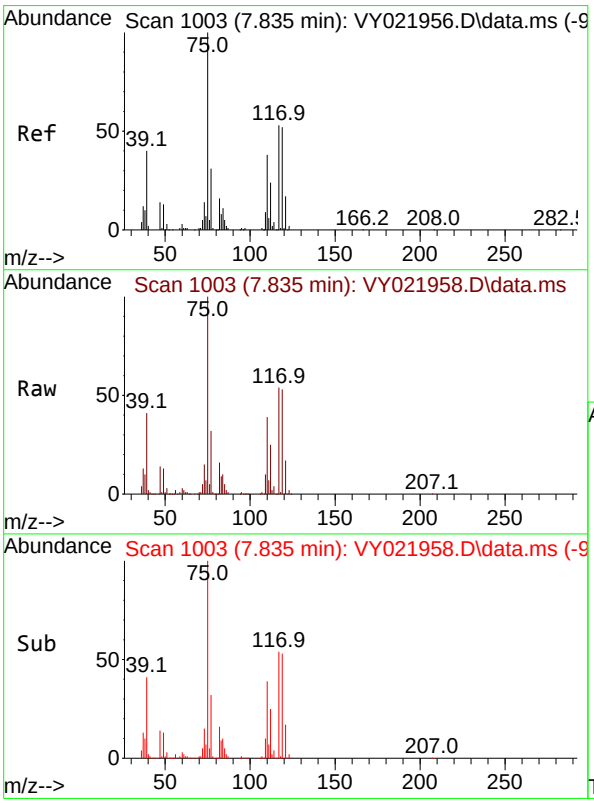
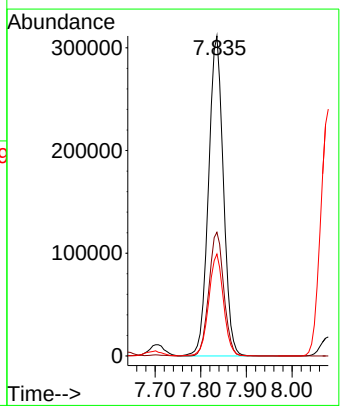
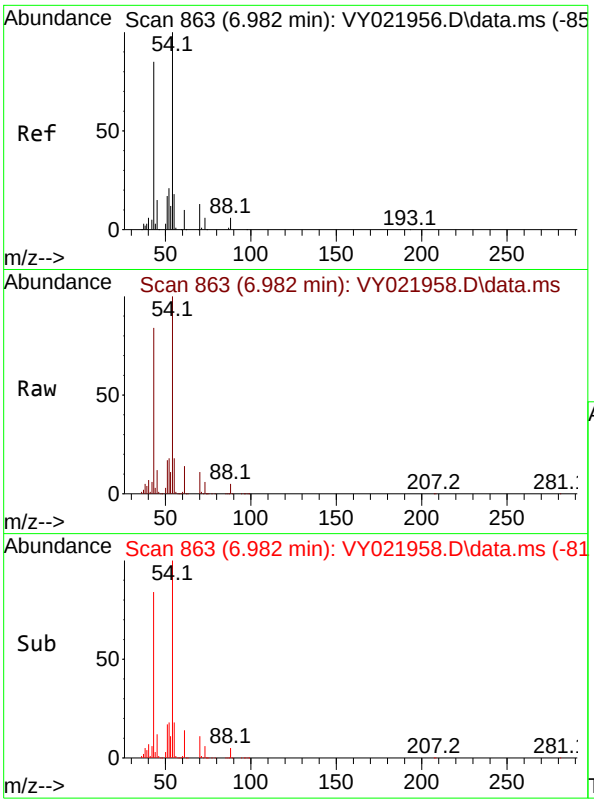


#36
1,1-Dichloropropene
Concen: 147.634 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 75 Resp: 702870

Ion	Ratio	Lower	Upper
75	100		
110	38.8	19.1	57.3
77	31.7	25.5	38.3

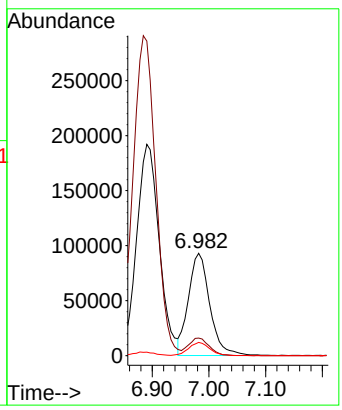




#37
Ethyl Acetate
Concen: 144.169 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 24319

Ion	Ratio	Lower	Upper
43	100		
61	16.6	13.8	20.6
70	12.9	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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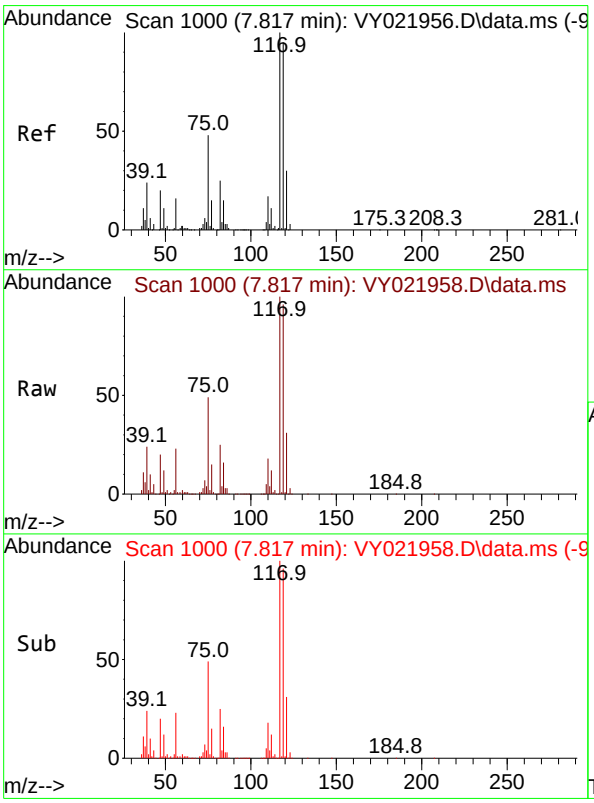
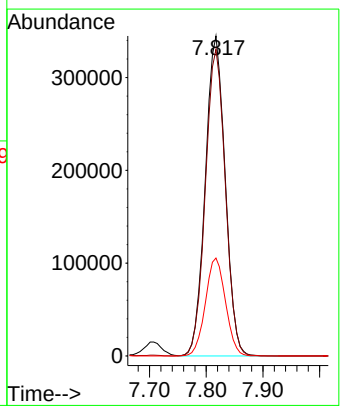
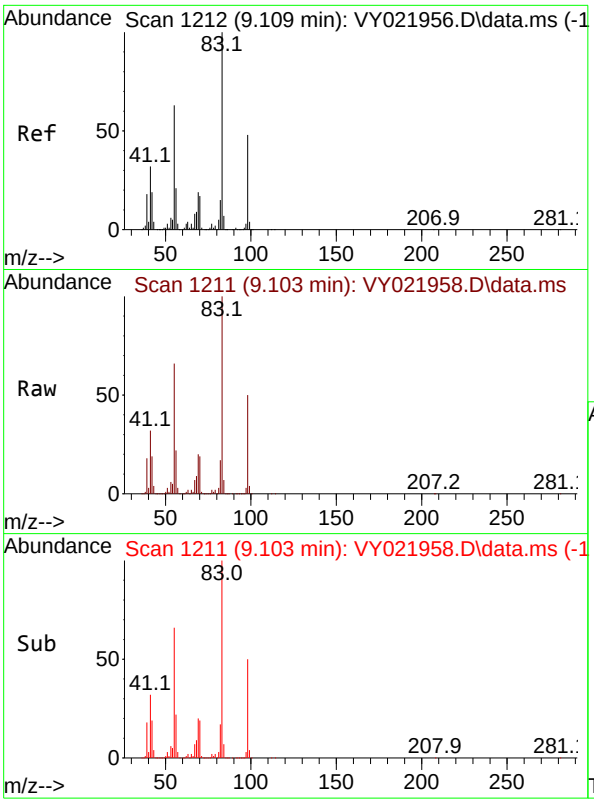


#38
Carbon Tetrachloride
Concen: 147.902 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:117 Resp: 841409

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.2	114.4
121	30.6	24.0	36.0

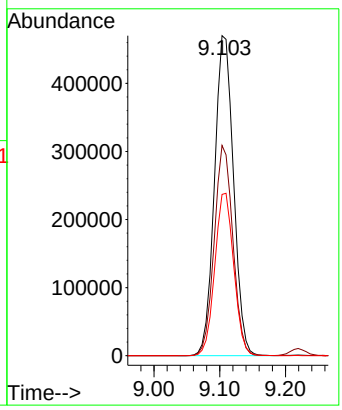




#39
Methylcyclohexane
Concen: 158.153 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 83 Resp: 94754

Ion	Ratio	Lower	Upper
83	100		
55	65.7	50.6	75.8
98	50.4	38.6	58.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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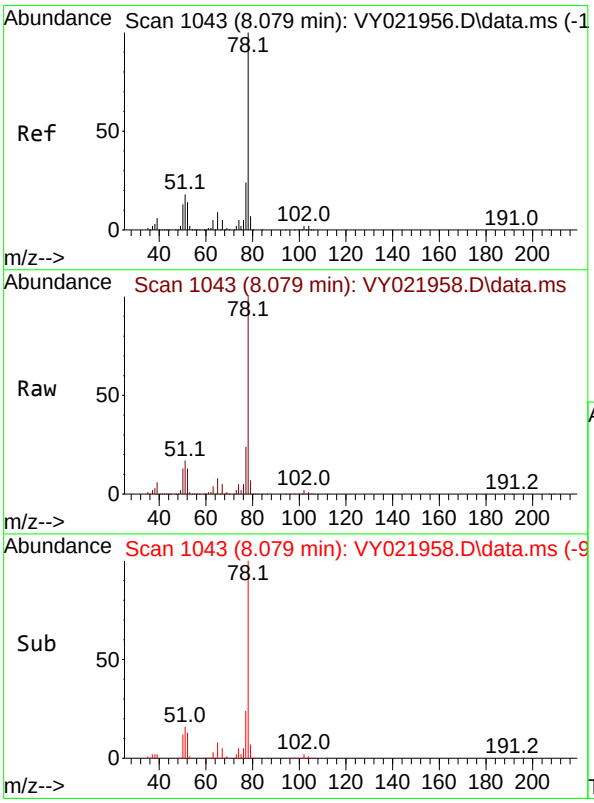
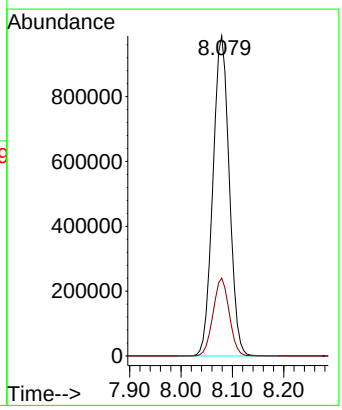
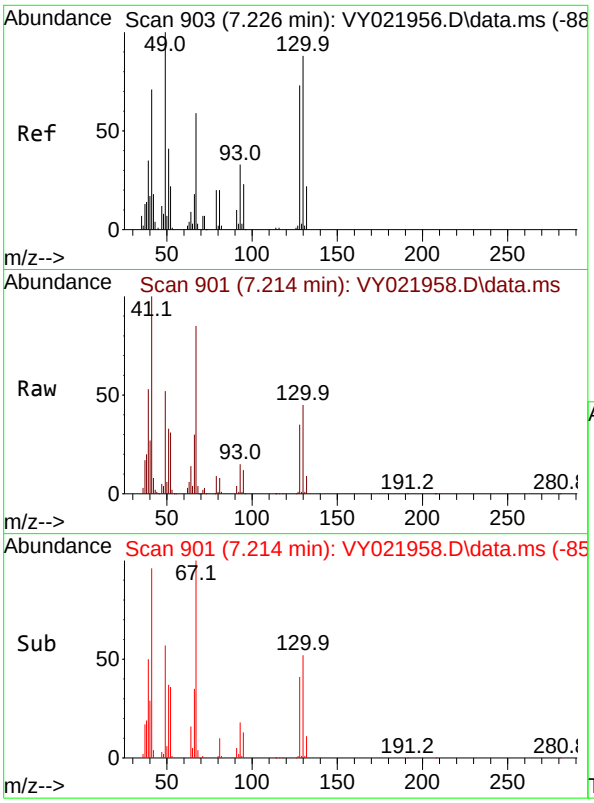


#40
Benzene
Concen: 146.818 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 78 Resp: 2184995

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9

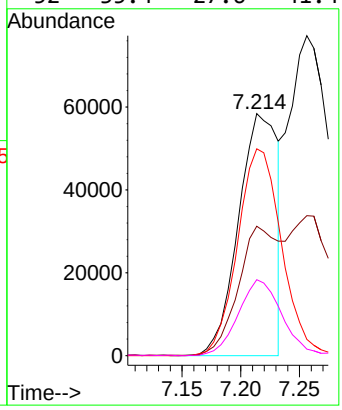




#41
Methacrylonitrile
Concen: 144.765 ug/l
RT: 7.214 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 41 Resp: 13536

Ion	Ratio	Lower	Upper
41	100		
39	60.3	36.6	55.0
67	96.7	72.2	108.4
52	35.4	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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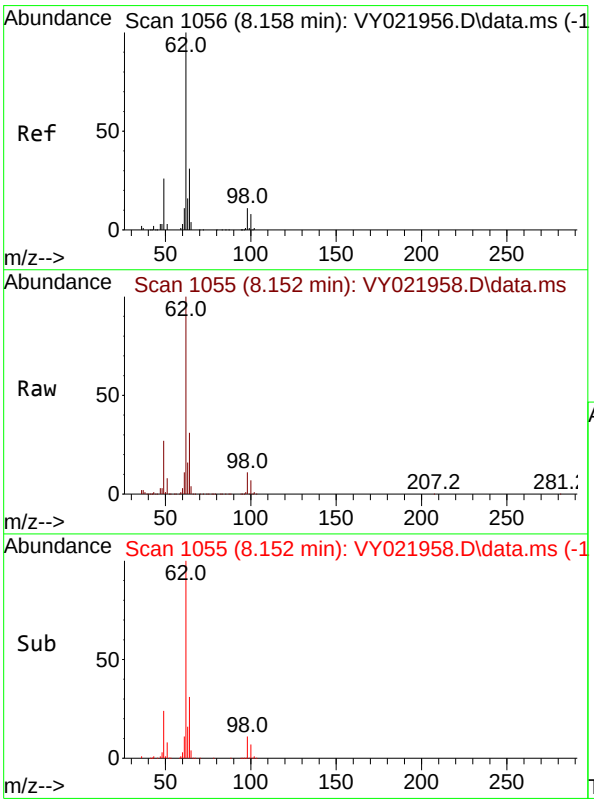
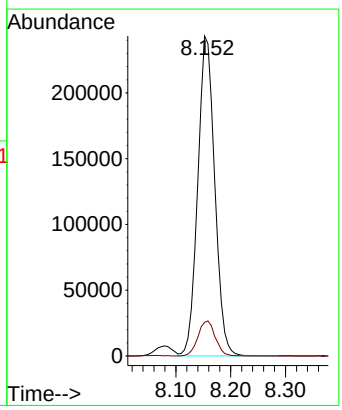
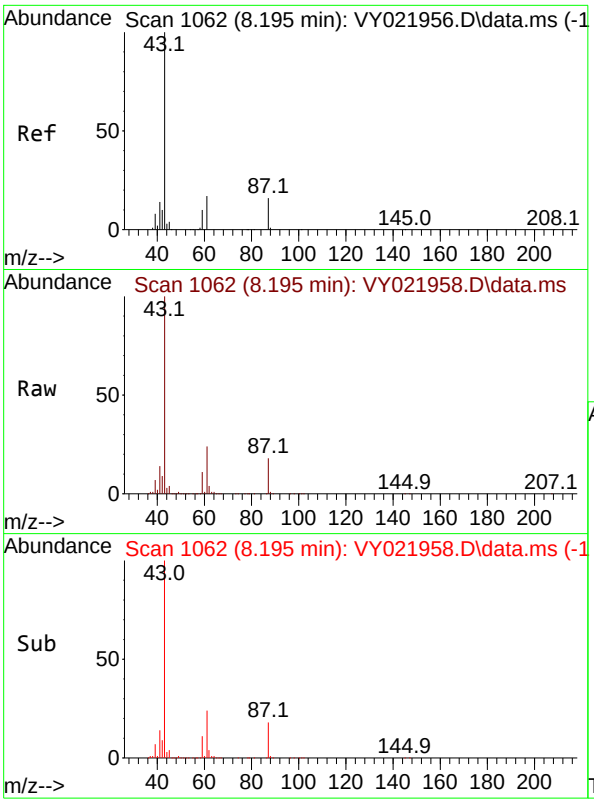


#42
1,2-Dichloroethane
Concen: 141.914 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 62 Resp: 522909

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	22.0





#43
Isopropyl Acetate
Concen: 151.020 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 49590

Ion	Ratio	Lower	Upper
43	100		
61	35.6	18.9	28.3#
87	18.1	13.7	20.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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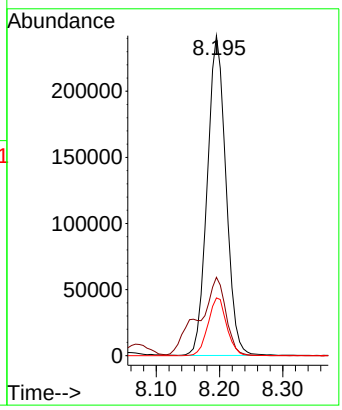
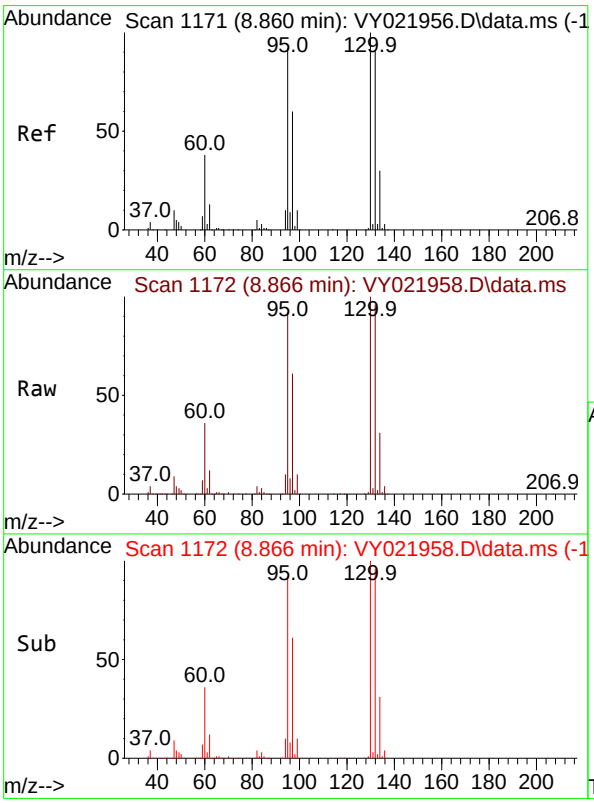
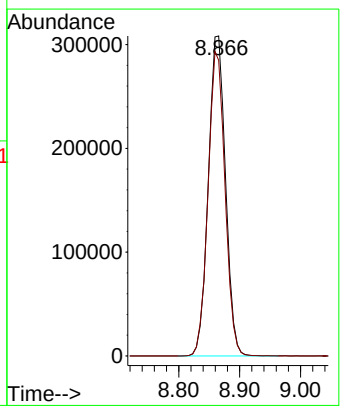


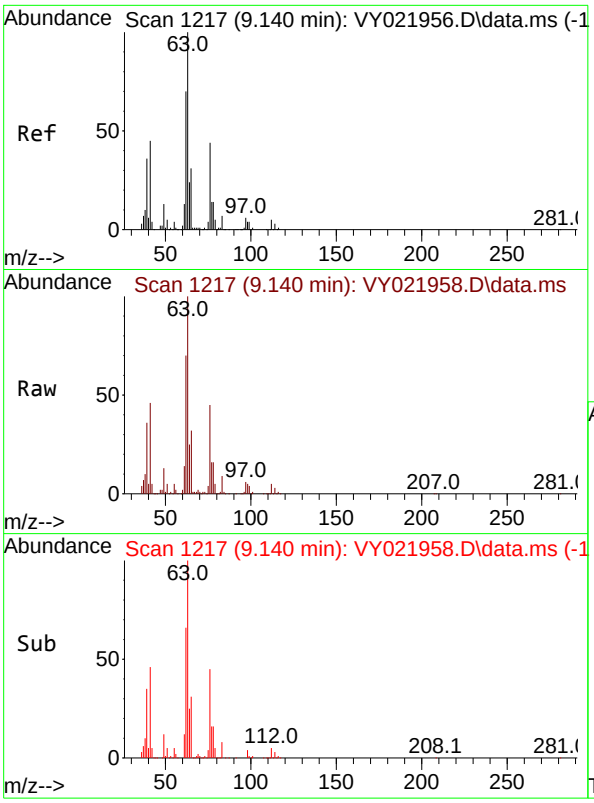


#44
Trichloroethene
Concen: 146.435 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:130 Resp: 603635

Ion	Ratio	Lower	Upper
130	100		
95	92.4	0.0	183.2

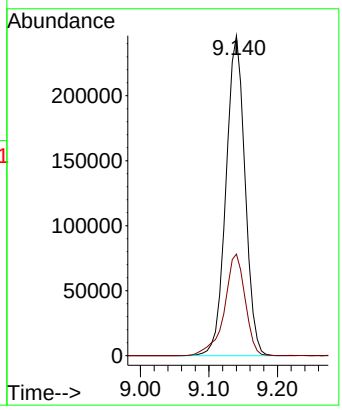




#45
1,2-Dichloropropane
Concen: 143.782 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 63 Resp: 47321

Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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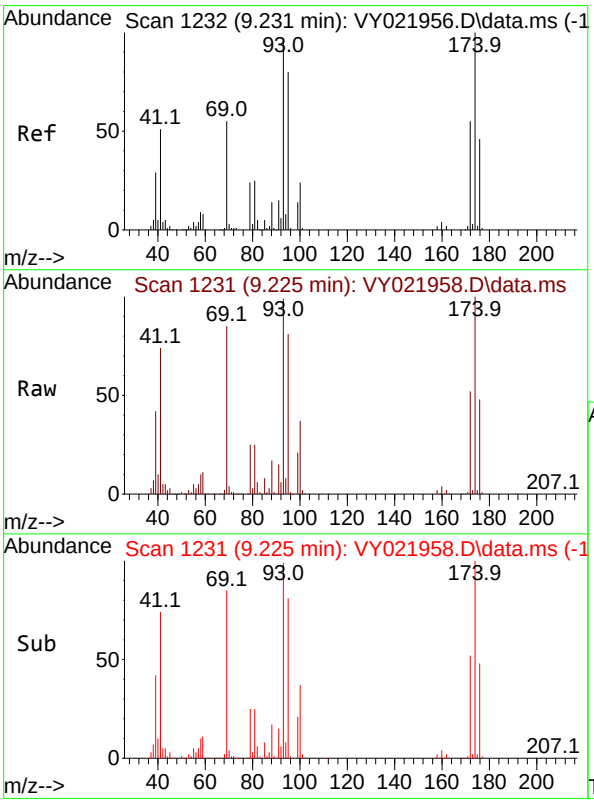
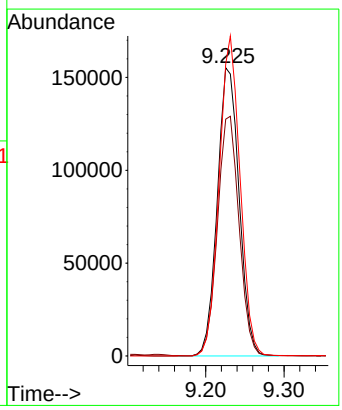
Supervised By :Mahesh Dadoda 04/23/2025

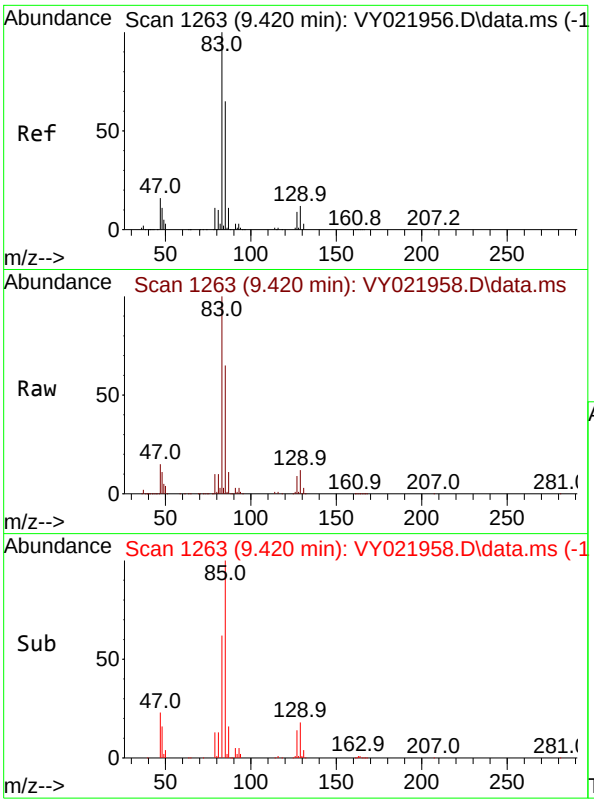


#46
Dibromomethane
Concen: 145.844 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 93 Resp: 300473

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.7	100.1
174	106.9	84.6	127.0

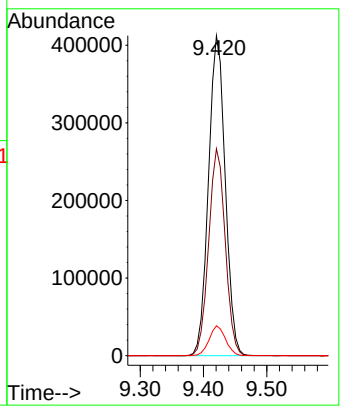




#47
Bromodichloromethane
Concen: 147.426 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 83 Resp: 75877

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.8
127	9.3	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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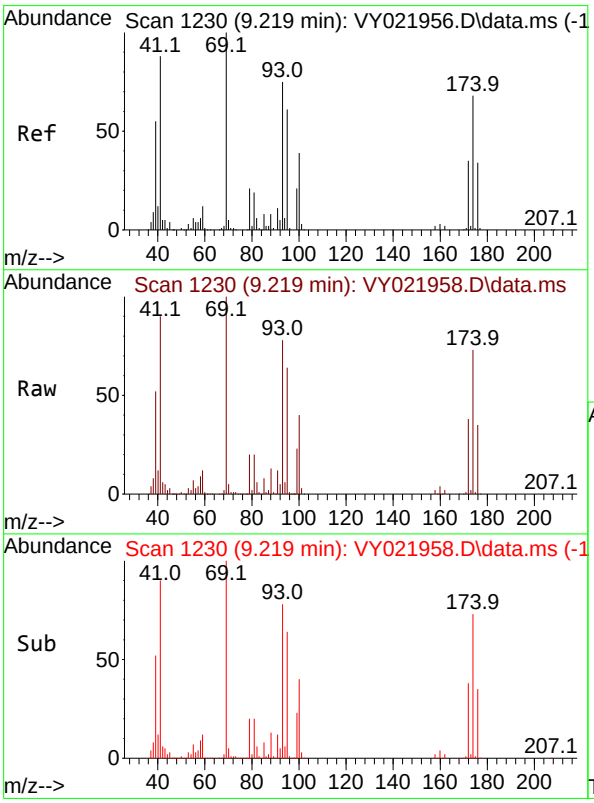
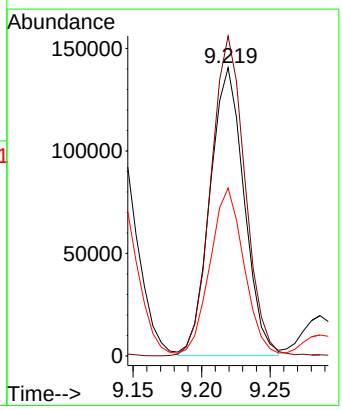
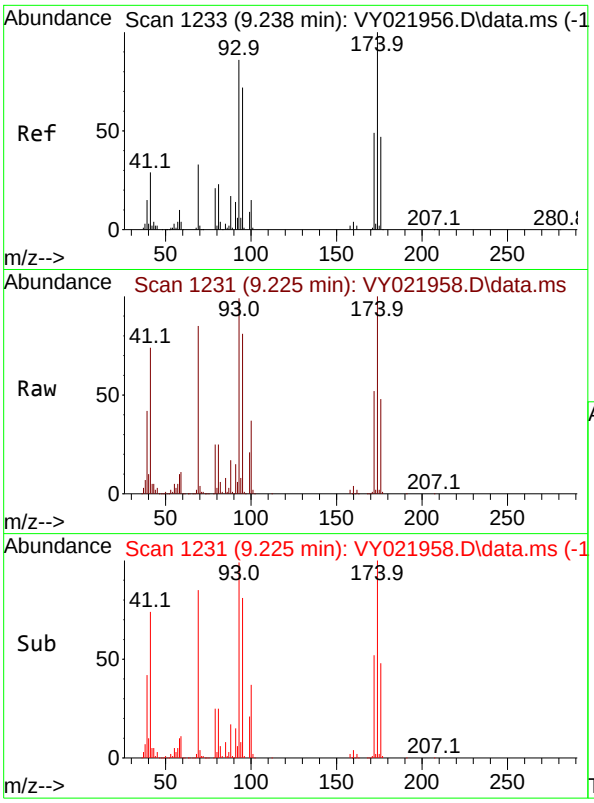


#48
Methyl methacrylate
Concen: 160.190 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 41 Resp: 243168

Ion	Ratio	Lower	Upper
41	100		
69	111.2	85.5	128.3
39	56.5	46.2	69.4

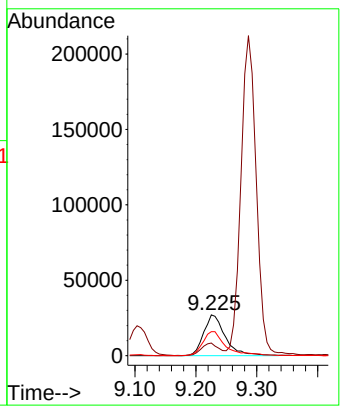




#49
1,4-Dioxane
Concen: 3029.677 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 88 Resp: 6652

Ion	Ratio	Lower	Upper
88	100		
43	25.3	21.3	31.9
58	63.5	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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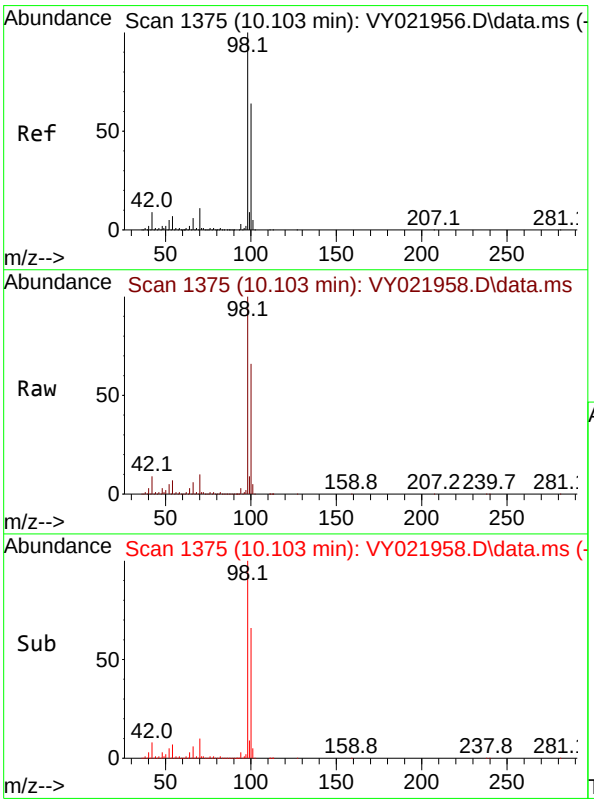
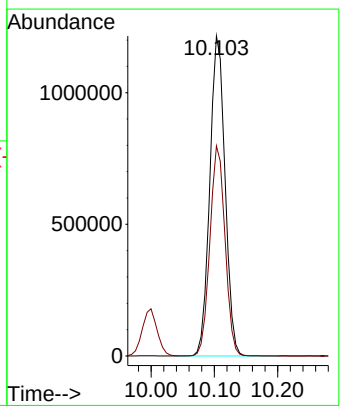
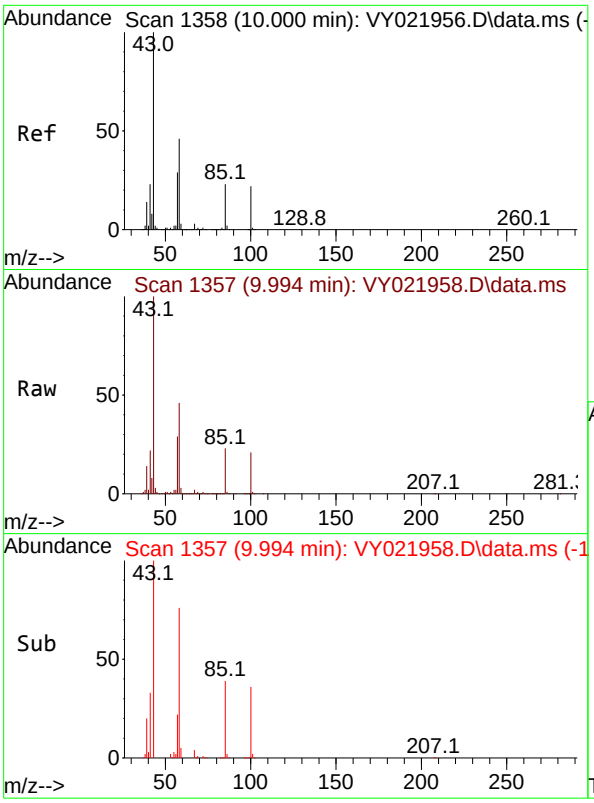


#50
Toluene-d8
Concen: 151.892 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 98 Resp: 2029557

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.6	77.4

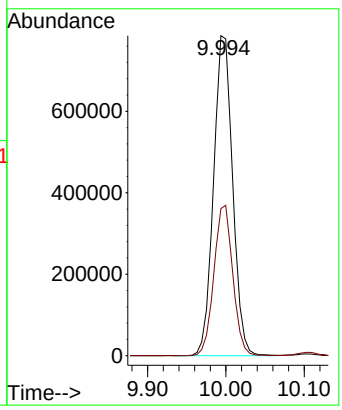




#51
4-Methyl-2-Pentanone
Concen: 773.306 ug/l
RT: 9.994 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 133112

Ion	Ratio	Lower	Upper
43	100		
58	46.5	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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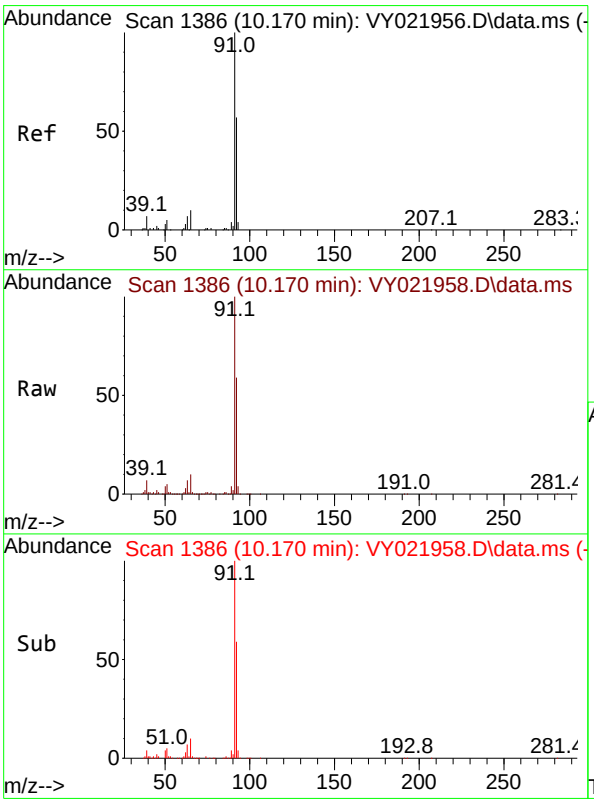
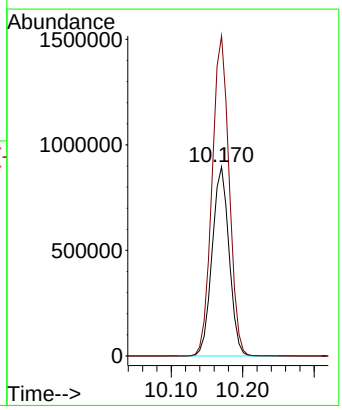
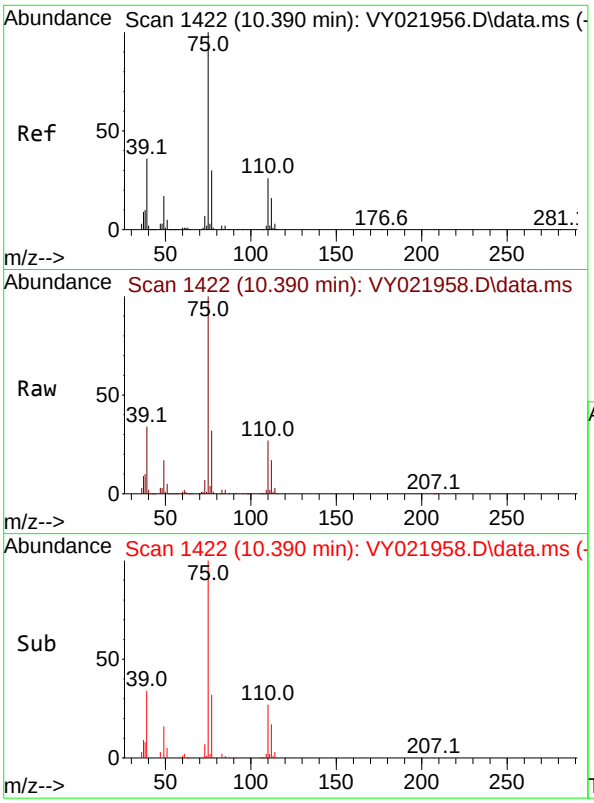


#52
Toluene
Concen: 152.593 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 92 Resp: 1470005

Ion	Ratio	Lower	Upper
92	100		
91	170.9	138.6	207.8

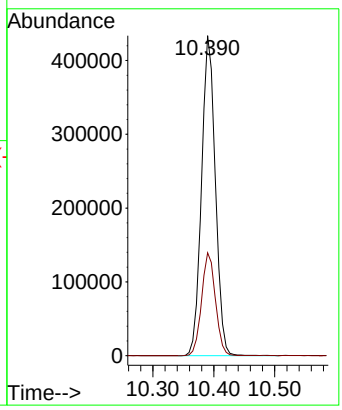




#53
t-1,3-Dichloropropene
Concen: 154.922 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 75 Resp: 68392

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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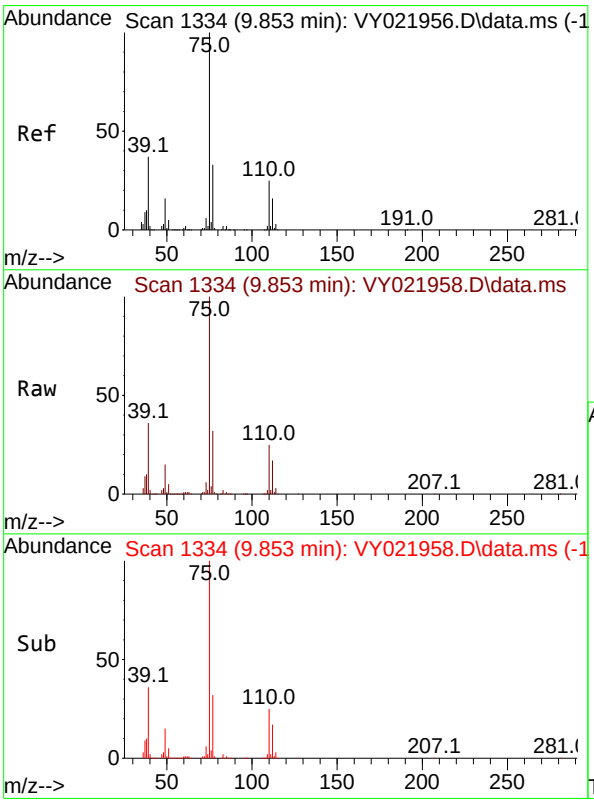
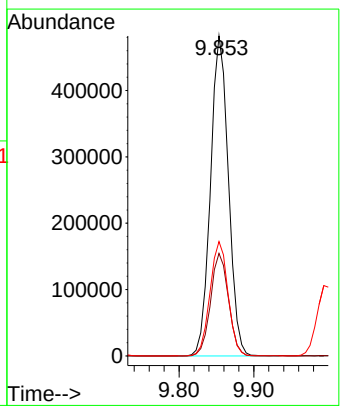
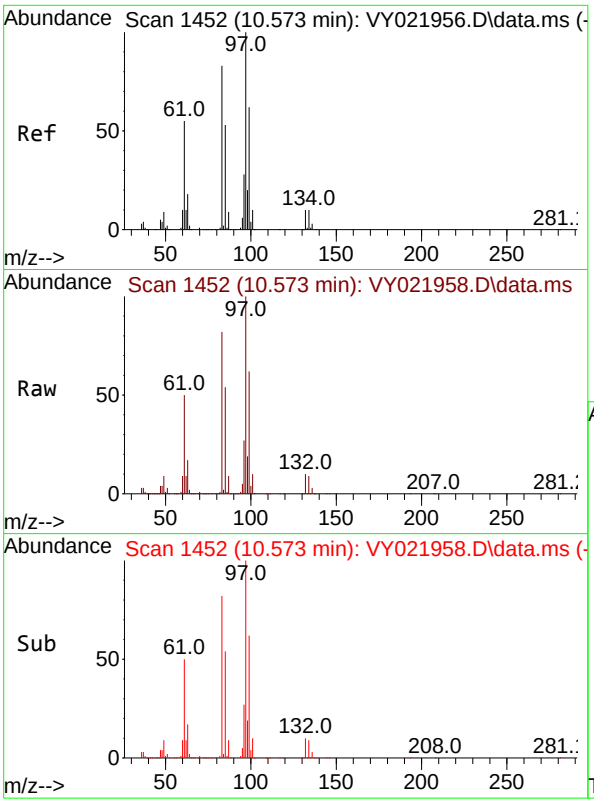


#54
cis-1,3-Dichloropropene
Concen: 153.345 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 75 Resp: 804716

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.6	40.0
39	35.7	29.6	44.4

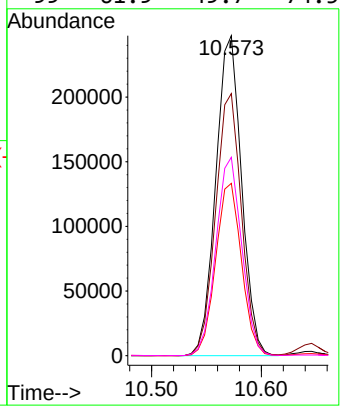




#55
1,1,2-Trichloroethane
Concen: 147.287 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 97 Resp: 40533

Ion	Ratio	Lower	Upper
97	100		
83	81.9	66.7	100.1
85	53.9	42.6	64.0
99	61.9	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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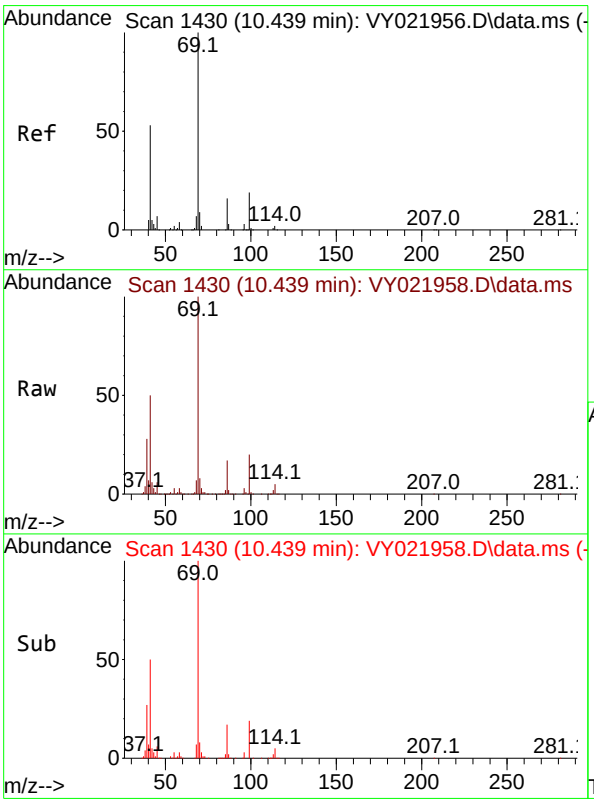
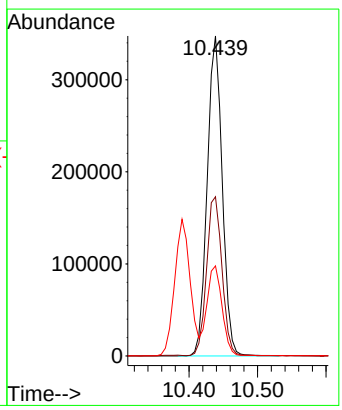
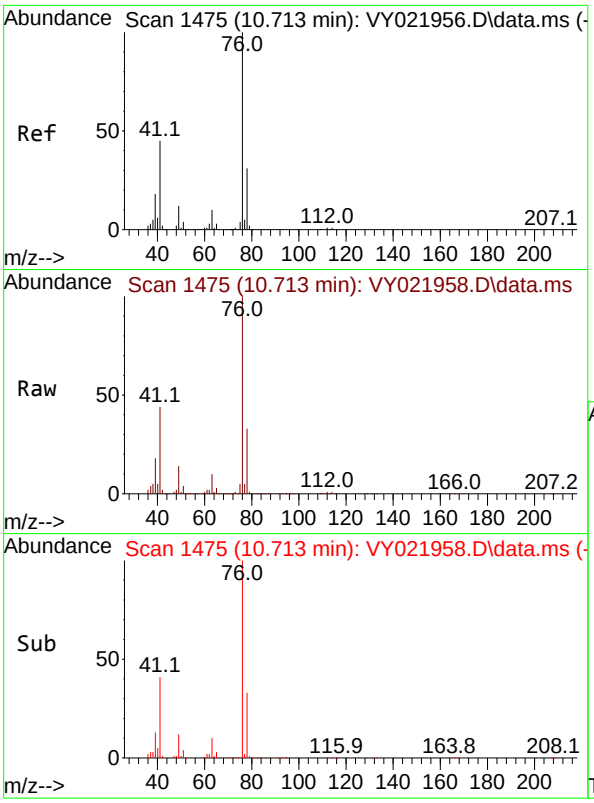


#56
Ethyl methacrylate
Concen: 168.507 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 69 Resp: 530305

Ion	Ratio	Lower	Upper
69	100		
41	50.9	40.7	61.1
39	28.4	23.3	34.9

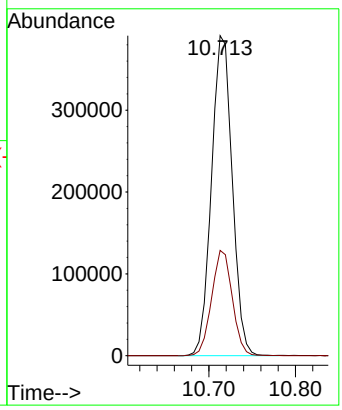




#57
1,3-Dichloropropane
Concen: 147.471 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 76 Resp: 65061

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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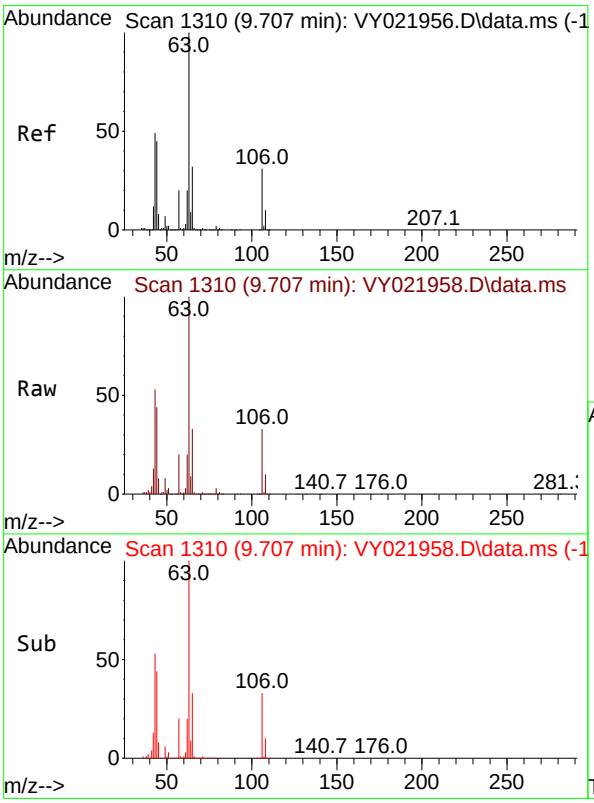
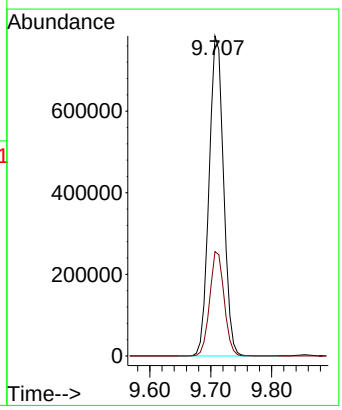
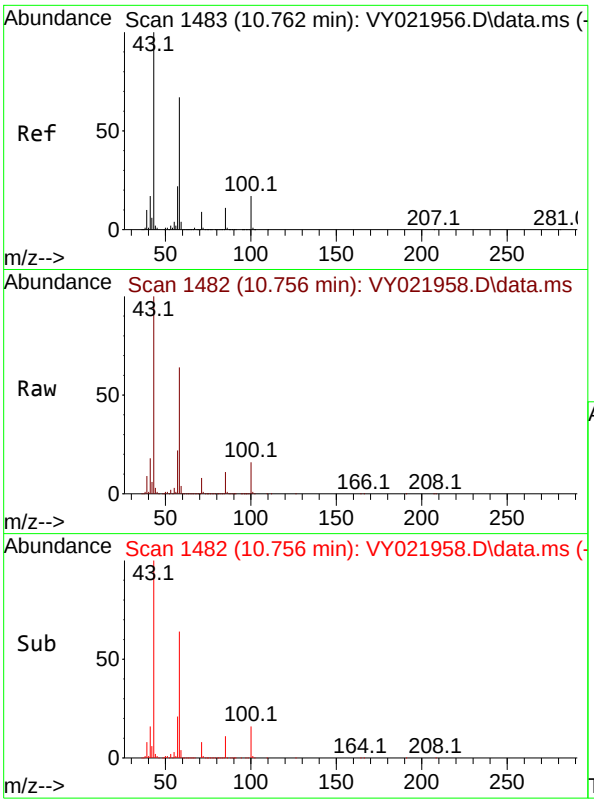


#58
2-Chloroethyl Vinyl ether
Concen: 840.076 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 63 Resp: 1292633

Ion	Ratio	Lower	Upper
63	100		
106	32.5	25.3	37.9

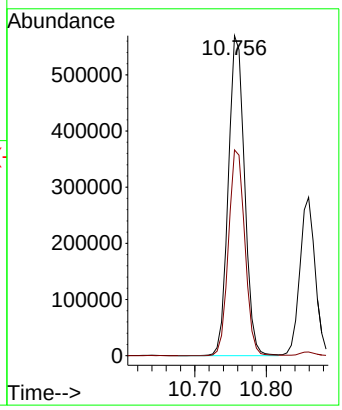




#59
2-Hexanone
Concen: 789.752 ug/l
RT: 10.756 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 89666

Ion	Ratio	Lower	Upper
43	100		
58	64.8	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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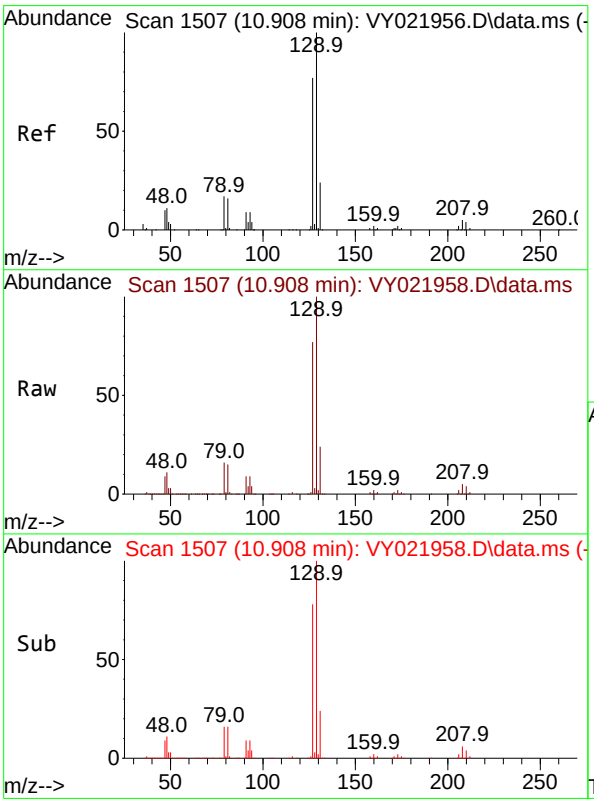
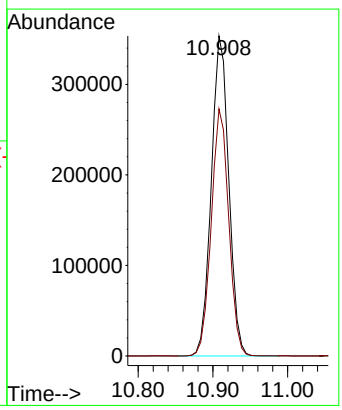
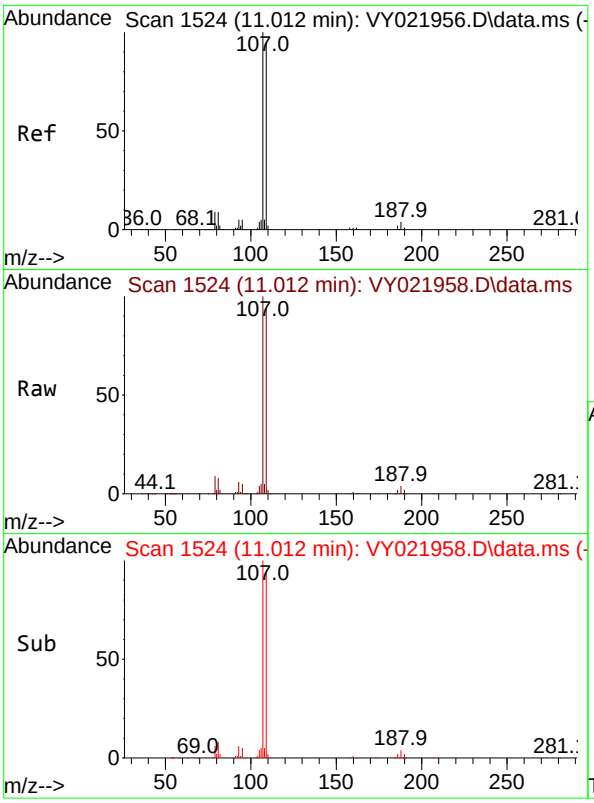


#60
Dibromochloromethane
Concen: 150.763 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:129 Resp: 574423

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.5	115.3

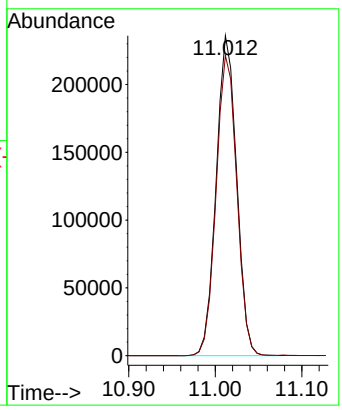




#61
1,2-Dibromoethane
Concen: 148.938 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:107 Resp: 38695

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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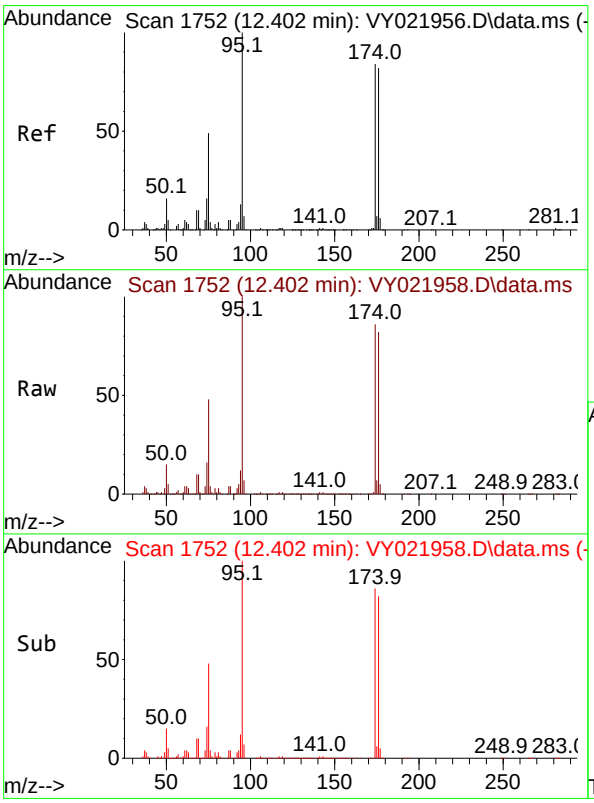
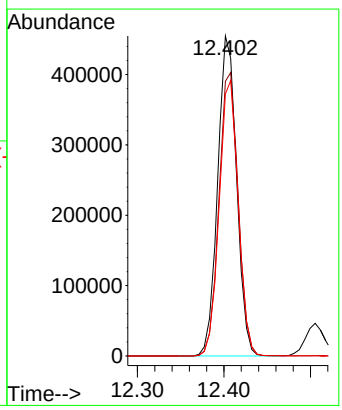
Supervised By :Mahesh Dadoda 04/23/2025

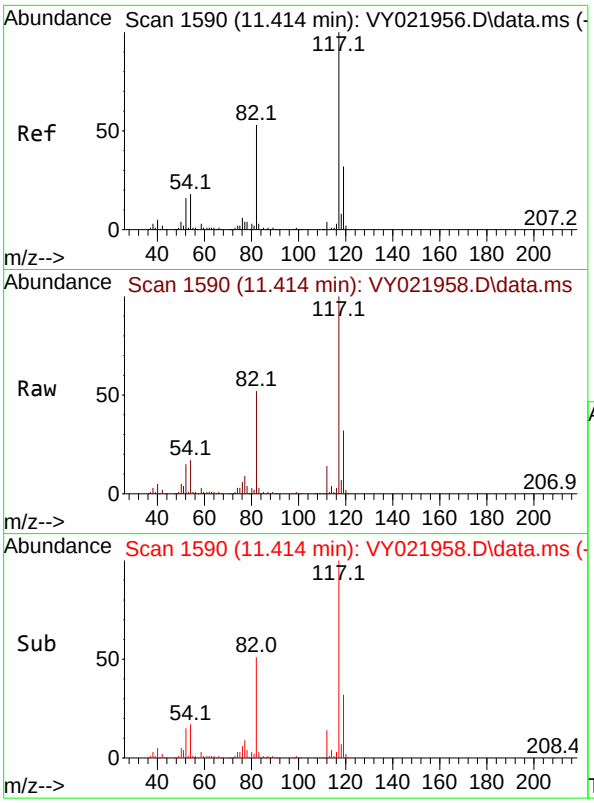


#62
4-Bromofluorobenzene
Concen: 152.965 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 95 Resp: 688061

Ion	Ratio	Lower	Upper
95	100		
174	90.4	0.0	179.0
176	86.9	0.0	171.8

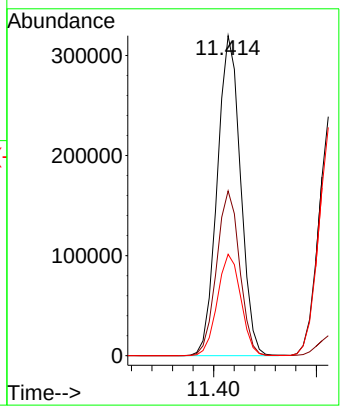




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:117 Resp: 50224

Ion	Ratio	Lower	Upper
117	100		
82	51.5	42.1	63.1
119	31.7	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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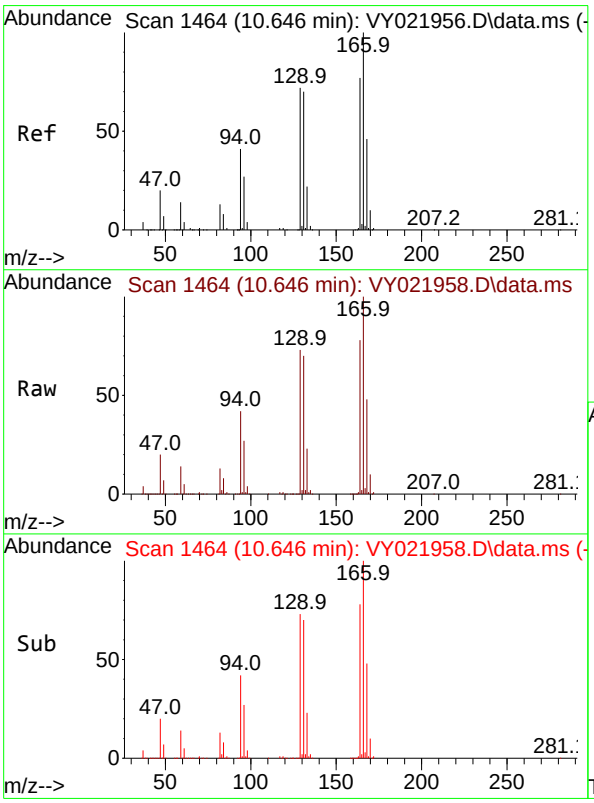
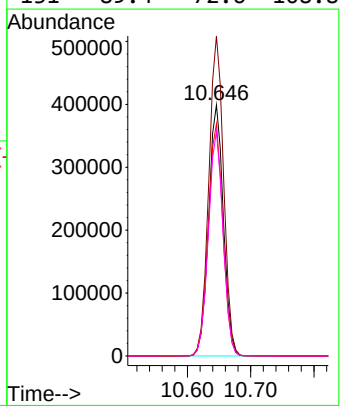
Supervised By :Mahesh Dadoda 04/23/2025

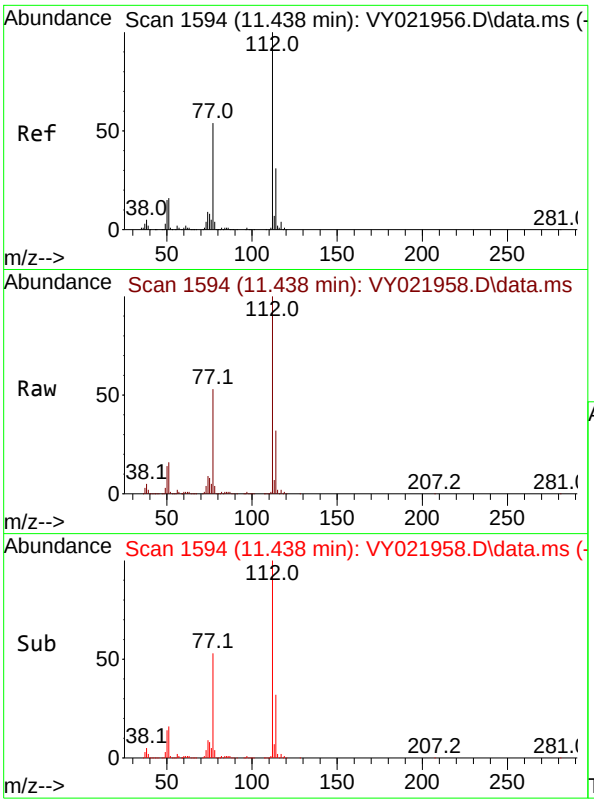


#64
Tetrachloroethene
Concen: 136.828 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:164 Resp: 648295

Ion	Ratio	Lower	Upper
164	100		
166	127.4	103.6	155.4
129	92.5	74.2	111.4
131	89.4	72.6	108.8

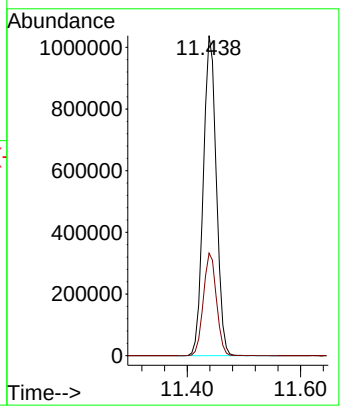




#65
Chlorobenzene
Concen: 146.452 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:112 Resp: 164487

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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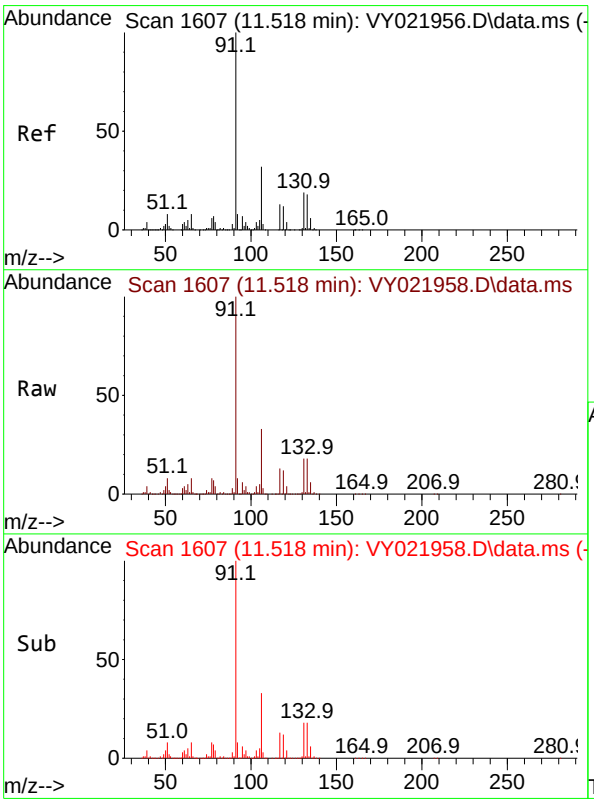
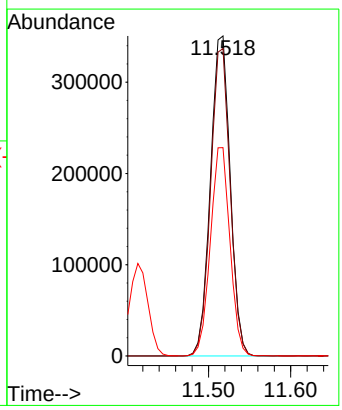
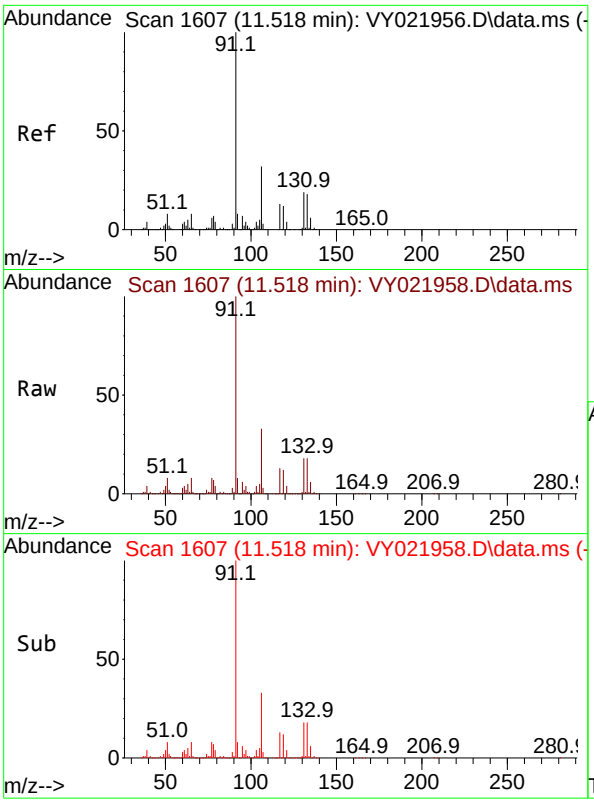


#66
1,1,1,2-Tetrachloroethane
Concen: 147.925 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:131 Resp: 584913

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.8	143.3
119	64.6	32.4	97.0

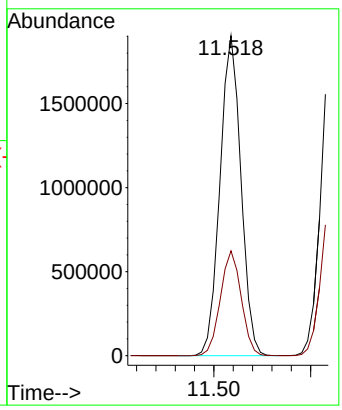




#67
Ethyl Benzene
Concen: 155.641 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 91 Resp: 285958

Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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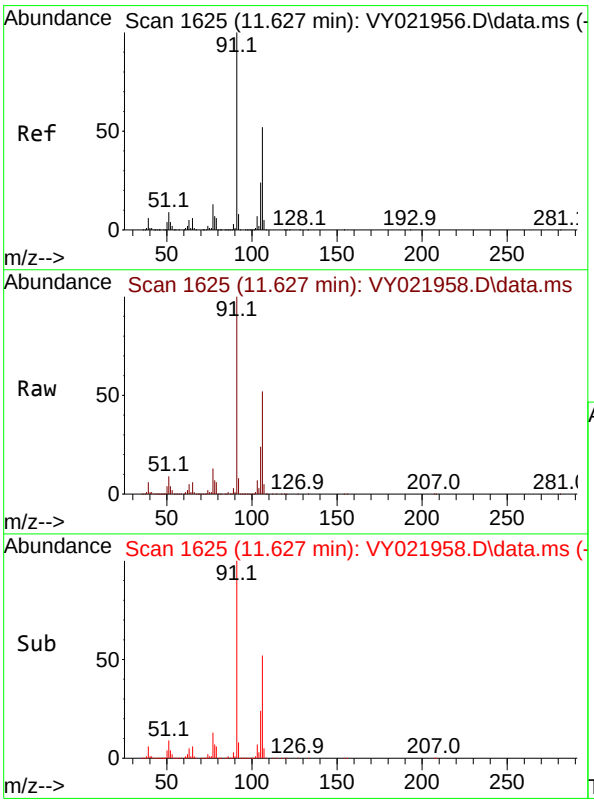
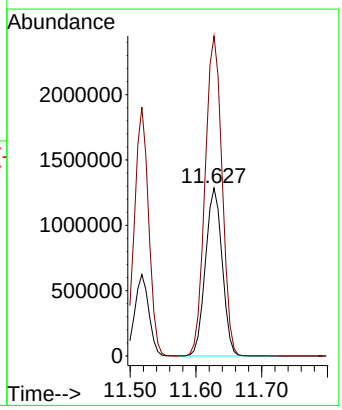
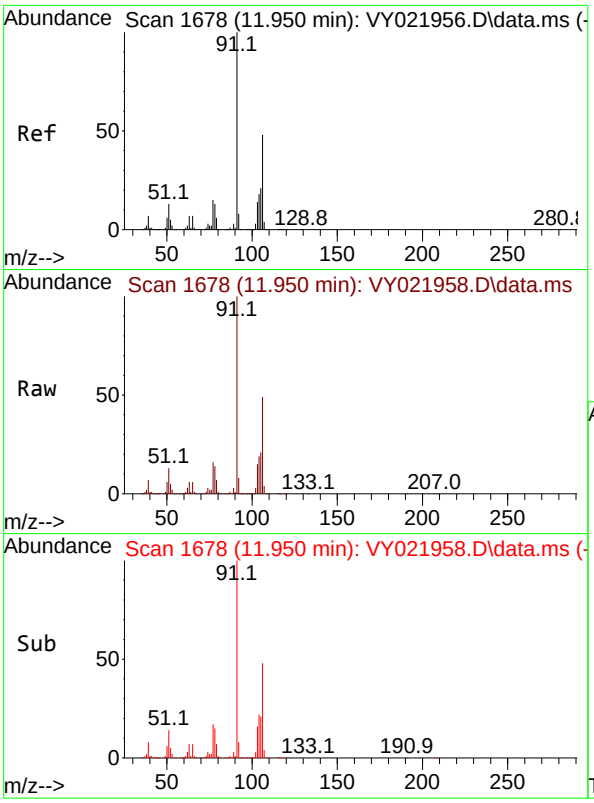


#68
m/p-Xylenes
Concen: 310.594 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:106 Resp: 2270756

Ion	Ratio	Lower	Upper
106	100		
91	193.3	156.2	234.2

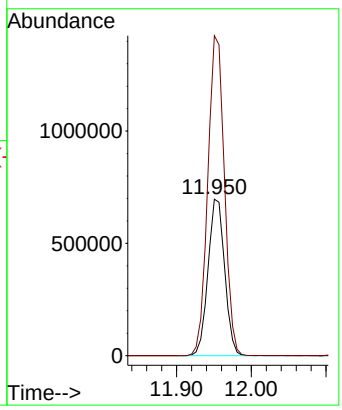




#69
o-Xylene
Concen: 160.131 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:106 Resp: 107903

Ion	Ratio	Lower	Upper
106	100		
91	204.3	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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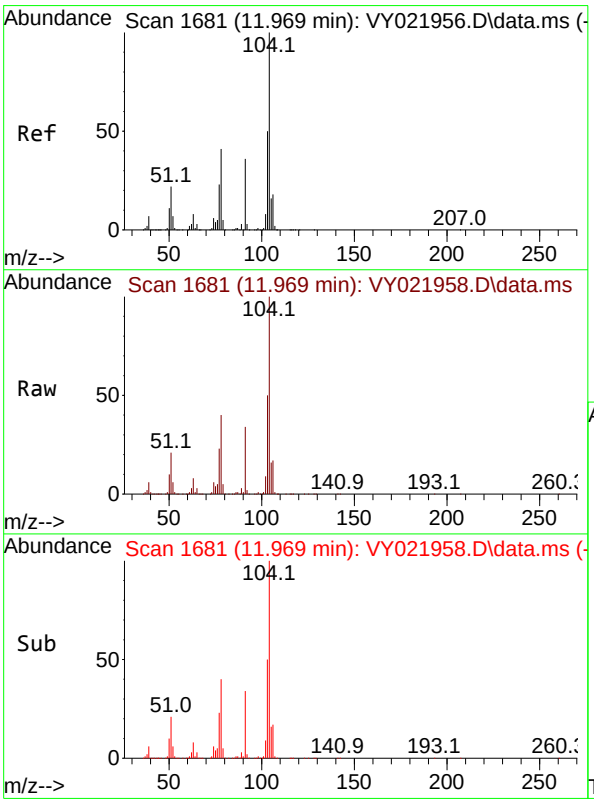
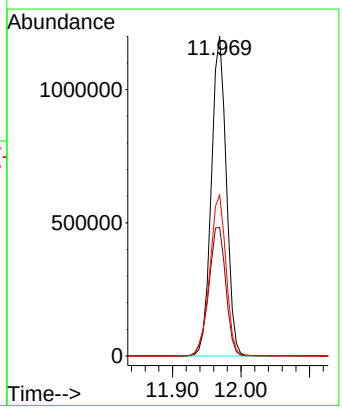
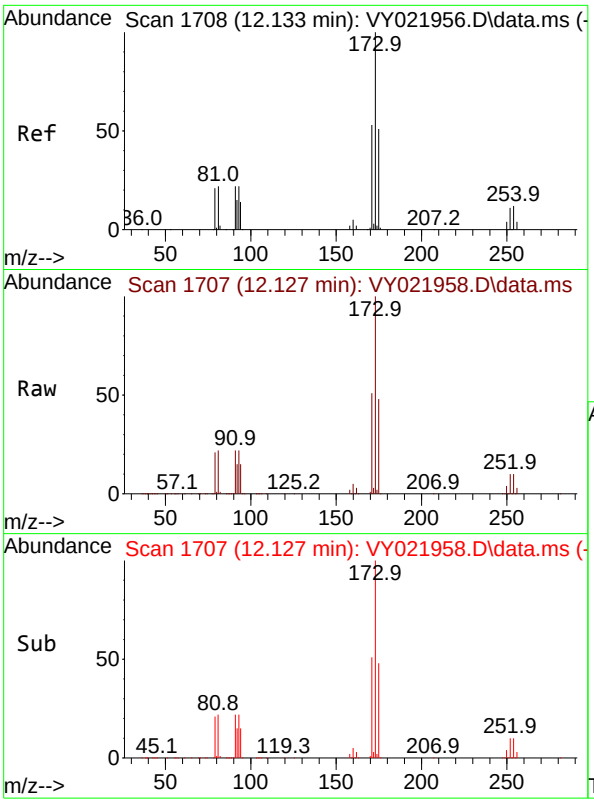


#70
Styrene
Concen: 160.979 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:104 Resp: 1821333

Ion	Ratio	Lower	Upper
104	100		
78	45.7	36.6	54.8
103	54.6	43.8	65.8

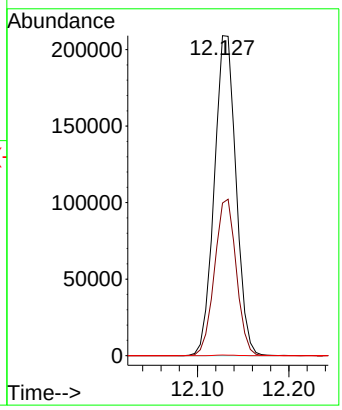




#71
Bromoform
Concen: 150.413 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:173 Resp: 34578

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	72.8
254	0.2	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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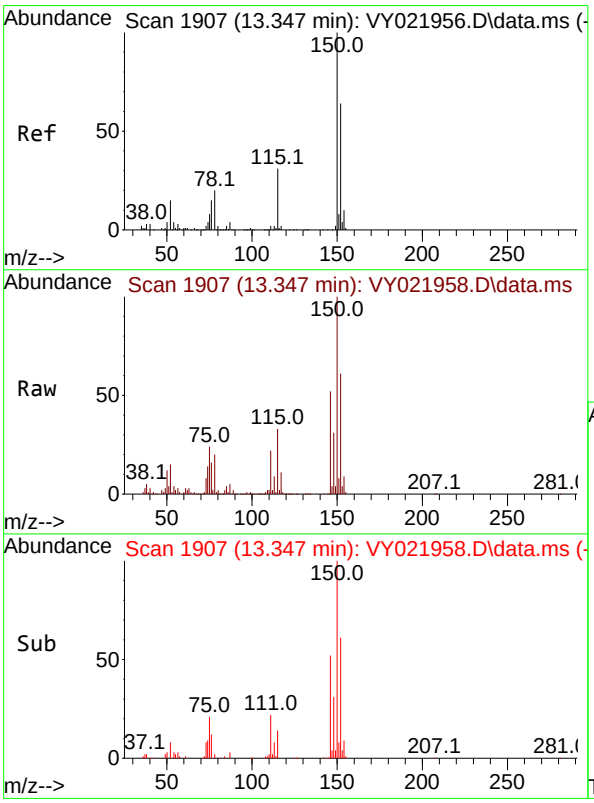
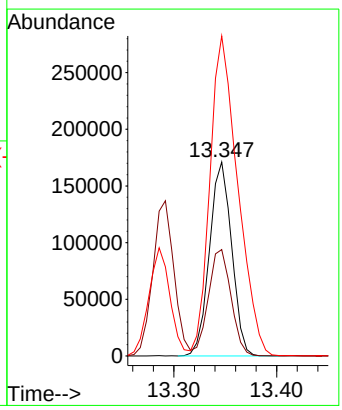
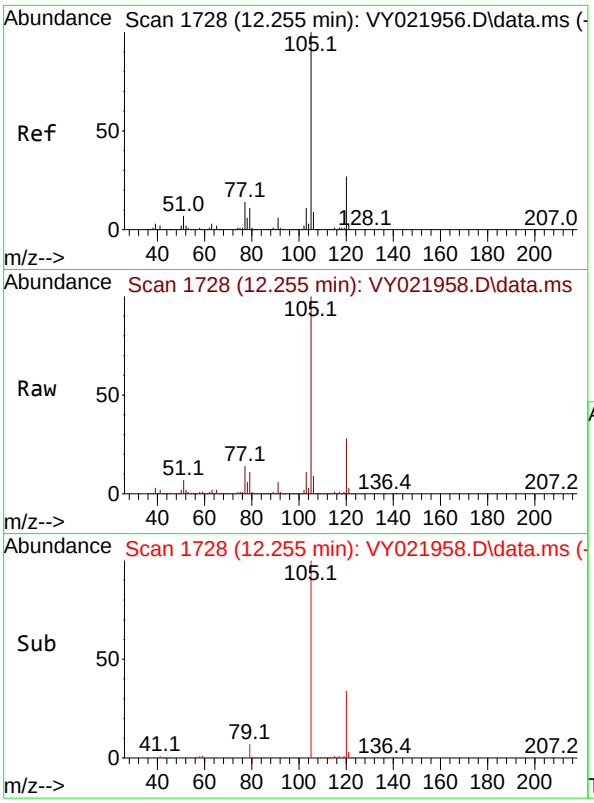


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:152 Resp: 256233

Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.0	84.0
150	207.6	0.0	345.6

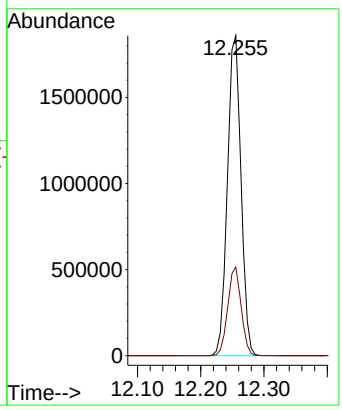




#73
Isopropylbenzene
Concen: 161.622 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:105 Resp: 276682

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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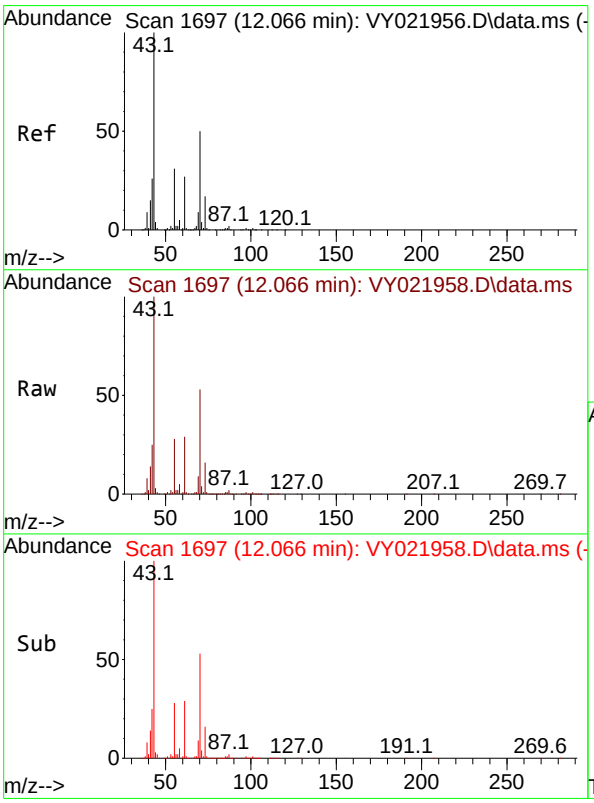
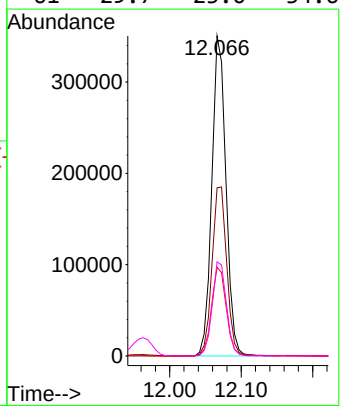
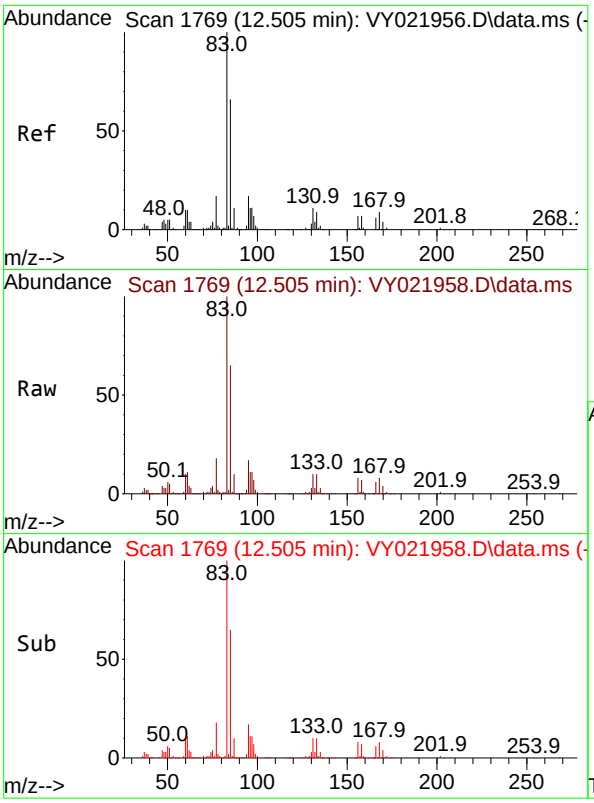


#74
N-amyl acetate
Concen: 163.570 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 43 Resp: 481095

Ion	Ratio	Lower	Upper
43	100		
70	55.2	43.2	64.8
55	29.0	25.7	38.5
61	29.7	23.0	34.6

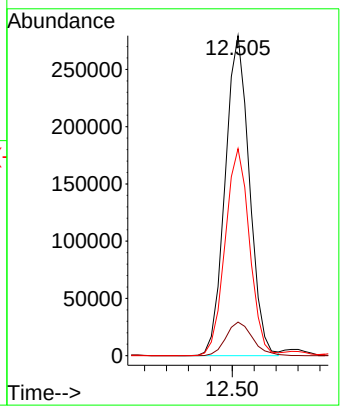




#75
1,1,2,2-Tetrachloroethane
Concen: 148.581 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 83 Resp: 42883

Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.5	16.4
85	65.1	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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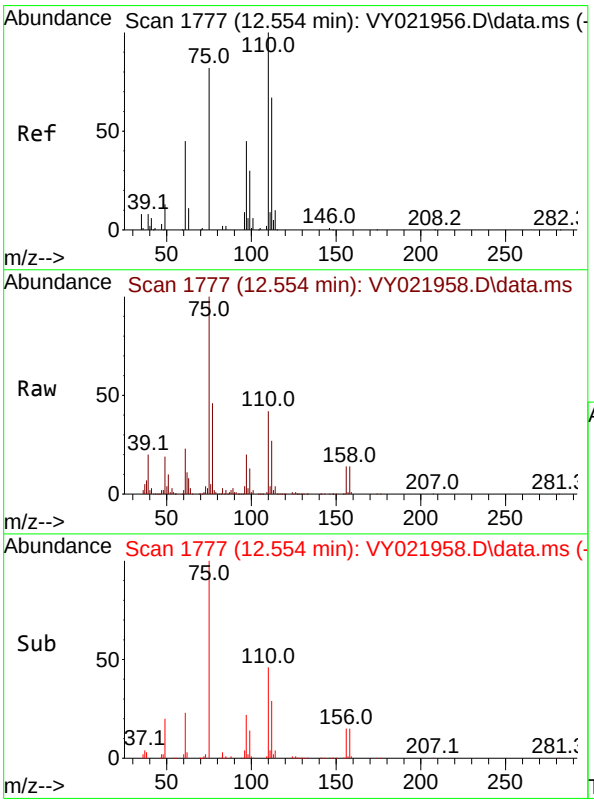
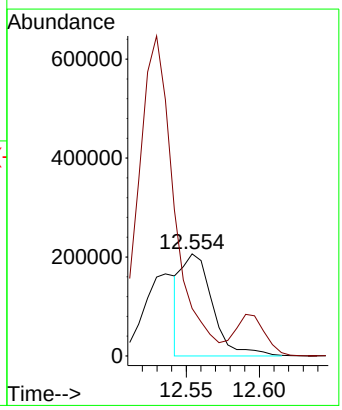
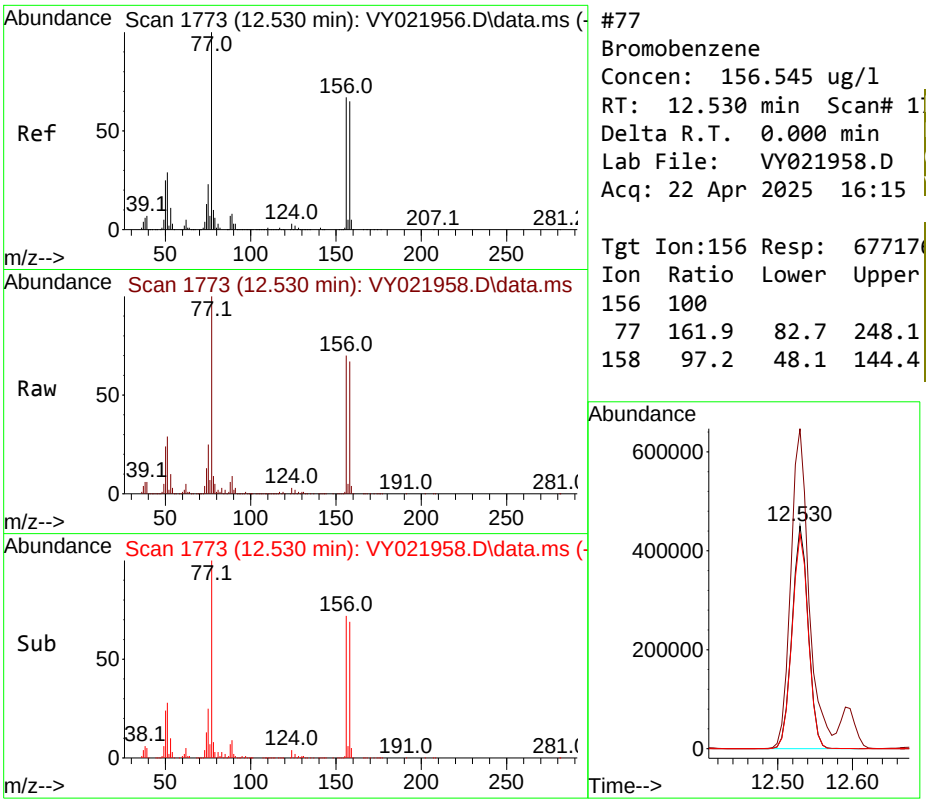


#76
1,2,3-Trichloropropane
Concen: 135.026 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 75 Resp: 304860

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 156.545 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:156 Resp: 67717

Ion	Ratio	Lower	Upper
156	100		
77	161.9	82.7	248.1
158	97.2	48.1	144.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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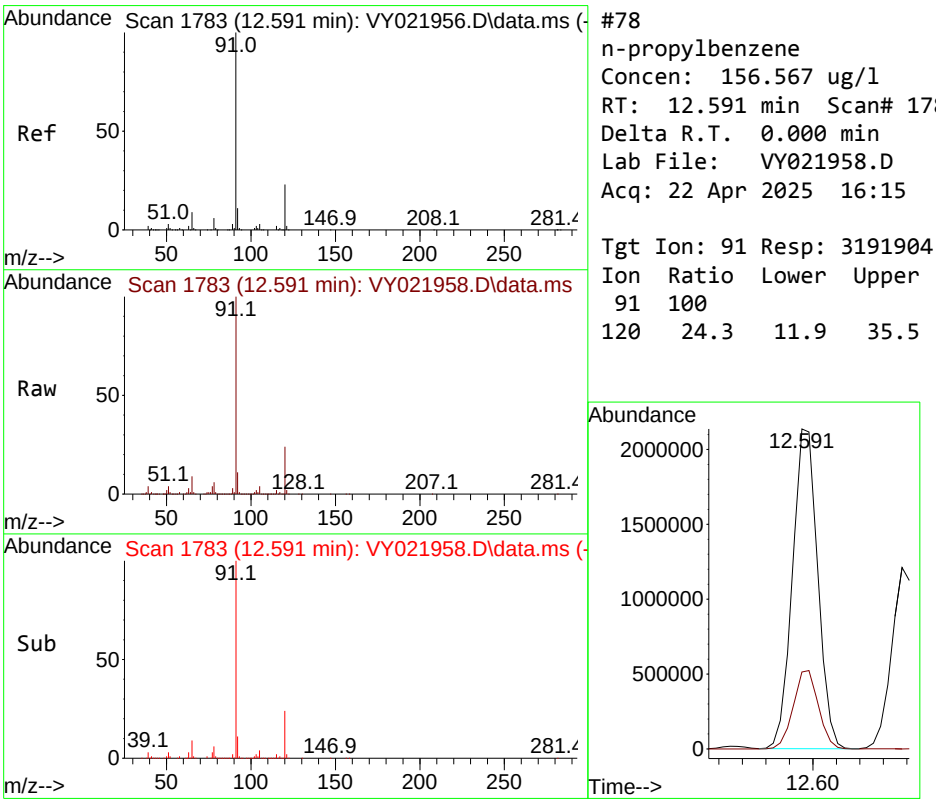
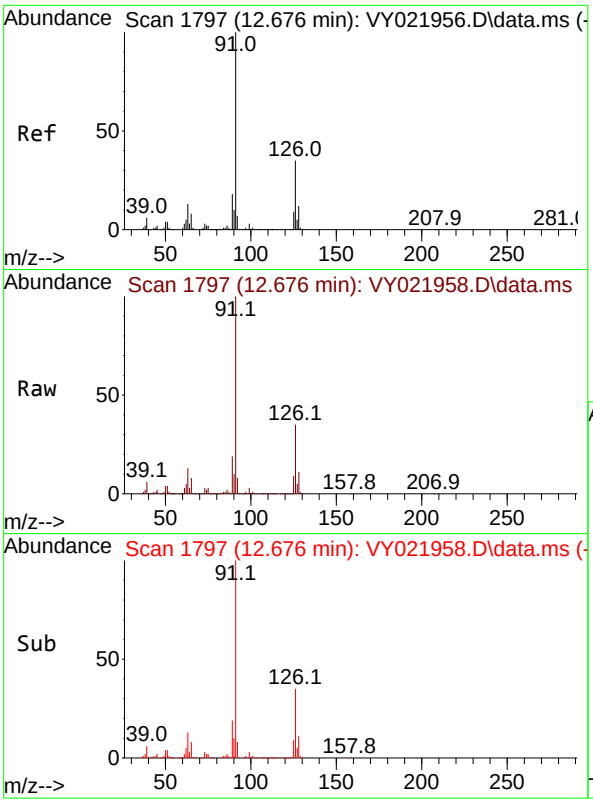


#78
n-propylbenzene
Concen: 156.567 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 91 Resp: 3191904

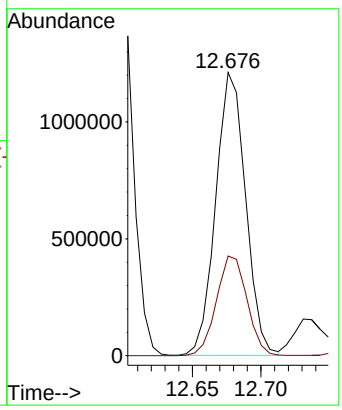
Ion	Ratio	Lower	Upper
91	100		
120	24.3	11.9	35.5



#79
2-Chlorotoluene
Concen: 155.043 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 91 Resp: 183821

Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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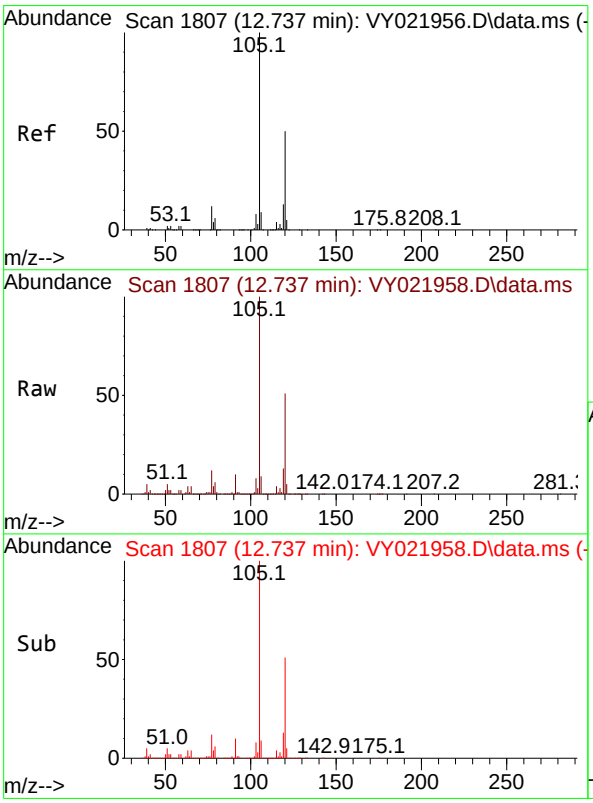
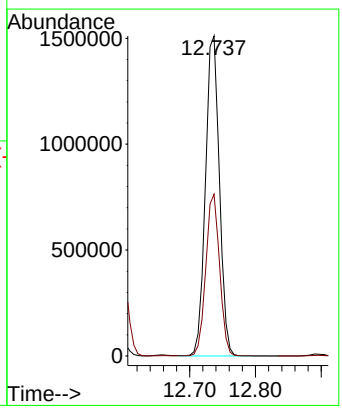
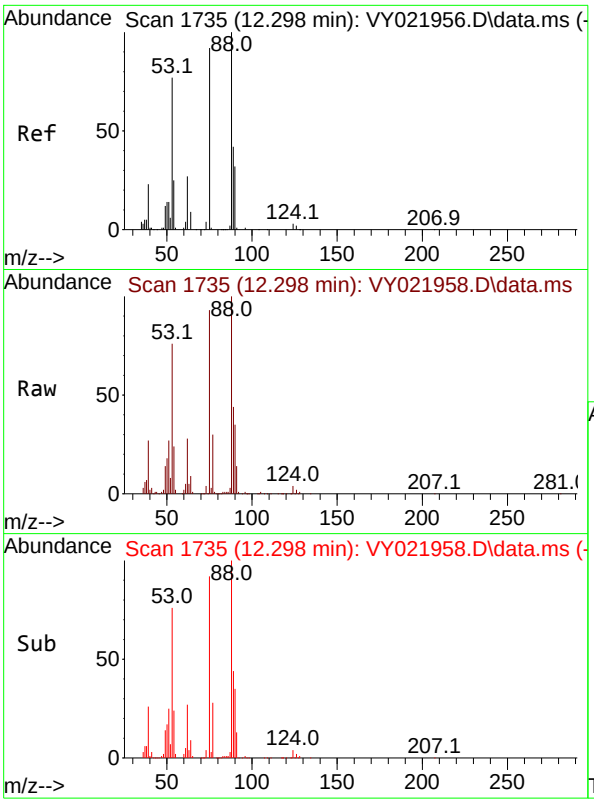


#80
1,3,5-Trimethylbenzene
Concen: 157.948 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:105 Resp: 2227887

Ion	Ratio	Lower	Upper
105	100		
120	50.2	25.0	75.0

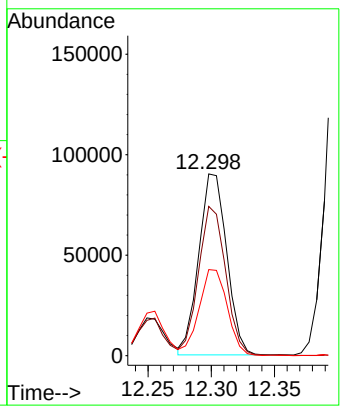




#81
trans-1,4-Dichloro-2-butene
Concen: 152.337 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 75 Resp: 13883

Ion	Ratio	Lower	Upper
75	100		
53	80.5	66.0	99.0
89	48.1	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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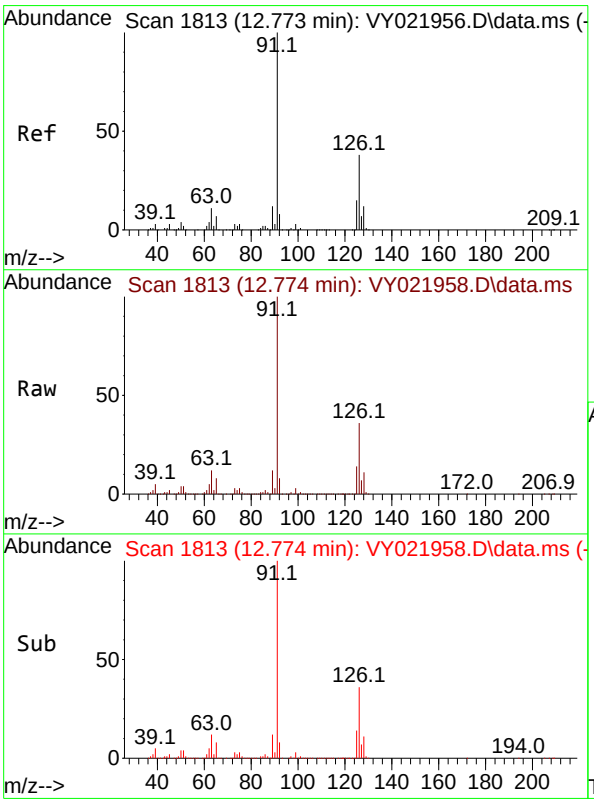
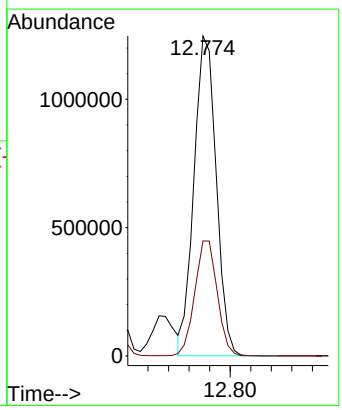
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

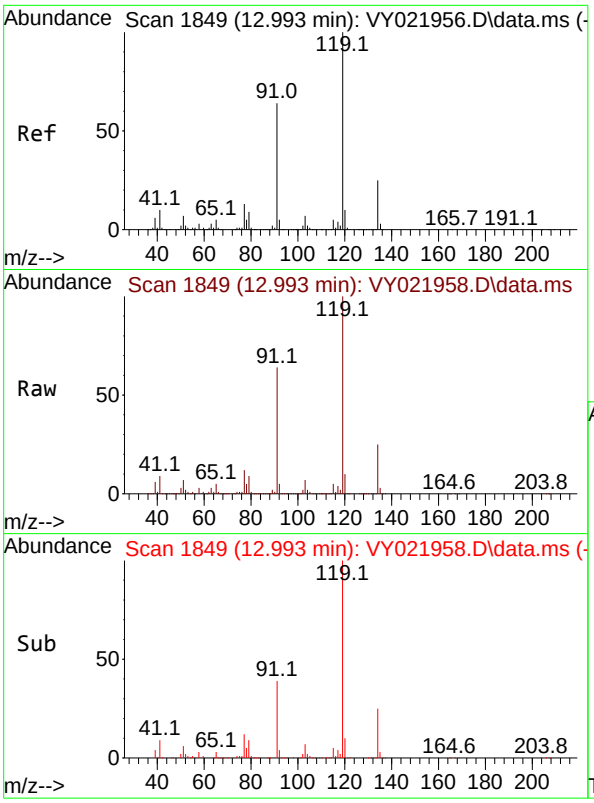


#82
4-Chlorotoluene
Concen: 152.484 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 91 Resp: 1879346

Ion	Ratio	Lower	Upper
91	100		
126	36.4	17.9	53.8





#83
tert-Butylbenzene
Concen: 164.108 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:119 Resp: 207600

Ion	Ratio	Lower	Upper
119	100		
91	60.6	30.3	90.9
134	26.3	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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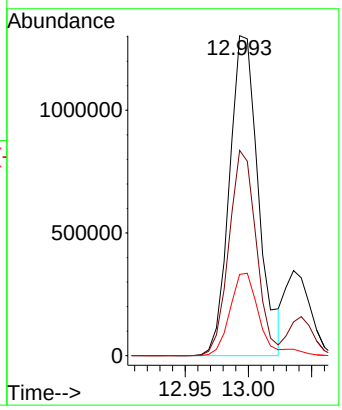
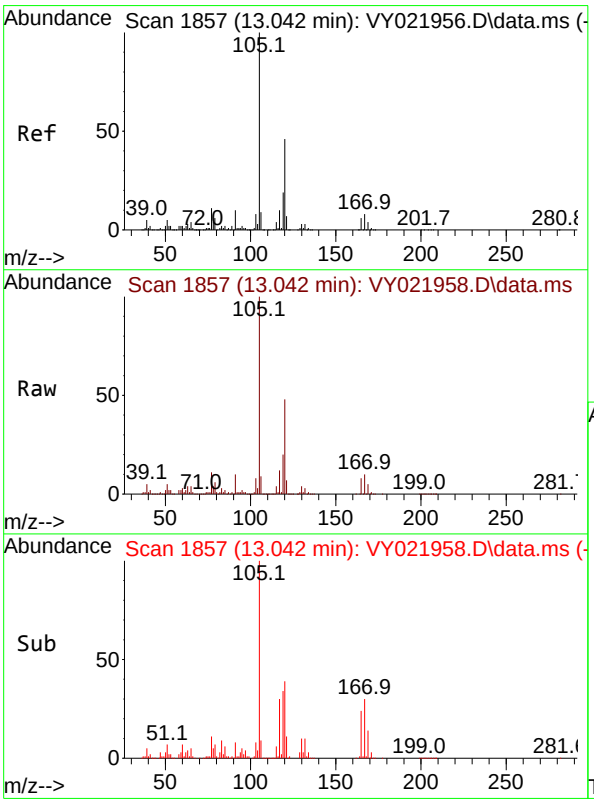
Supervised By :Mahesh Dadoda 04/23/2025

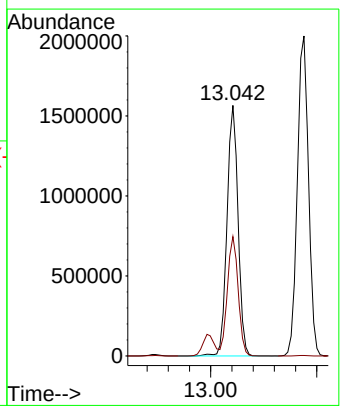


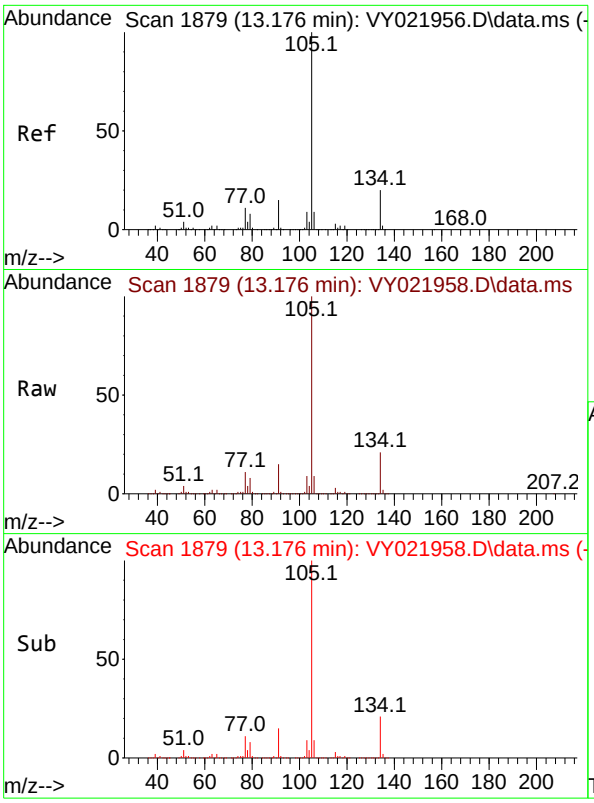


#84
1,2,4-Trimethylbenzene
Concen: 160.437 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:105 Resp: 2263509

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.4	70.0

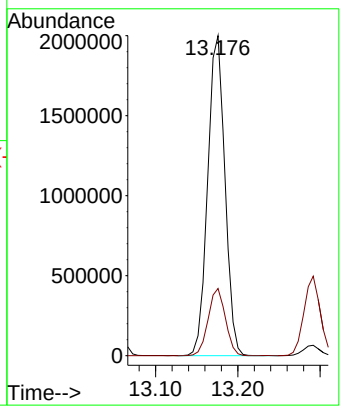




#85
sec-Butylbenzene
Concen: 157.224 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:105 Resp: 291039

Ion	Ratio	Lower	Upper
105	100		
134	21.0	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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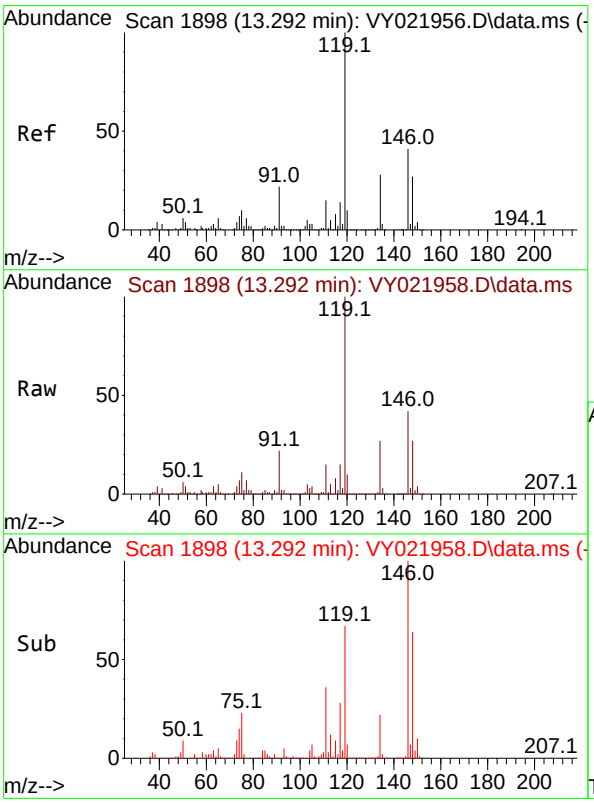
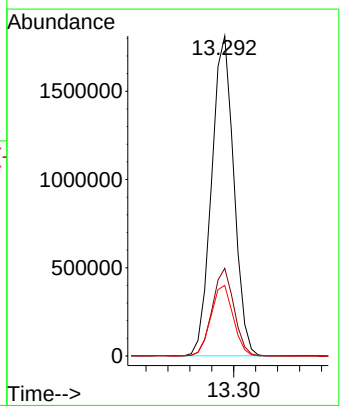
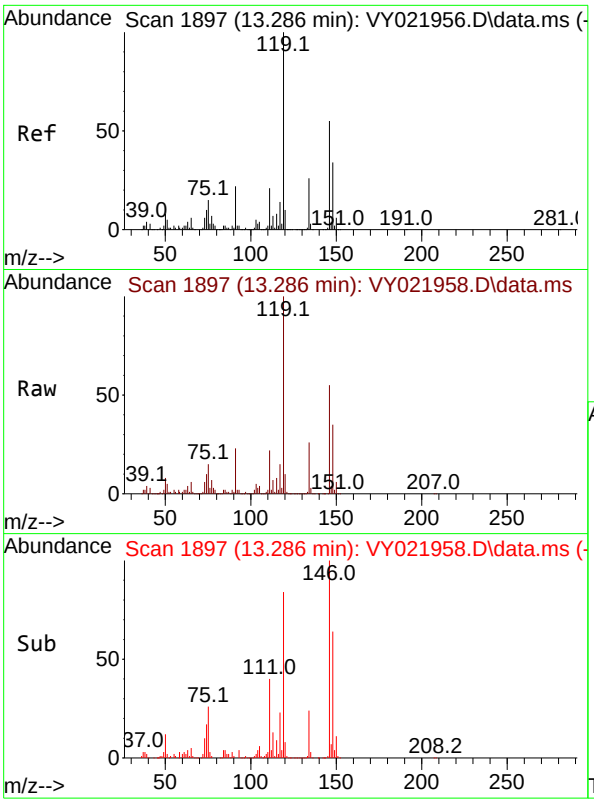


#86
p-Isopropyltoluene
Concen: 162.413 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:119 Resp: 2552924

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.6	40.7
91	22.2	11.0	33.0





#87
1,3-Dichlorobenzene
Concen: 152.409 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:146 Resp: 133902

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.5
148	63.5	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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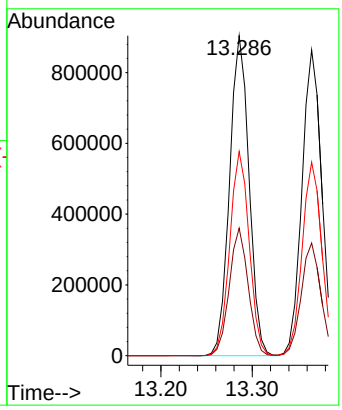
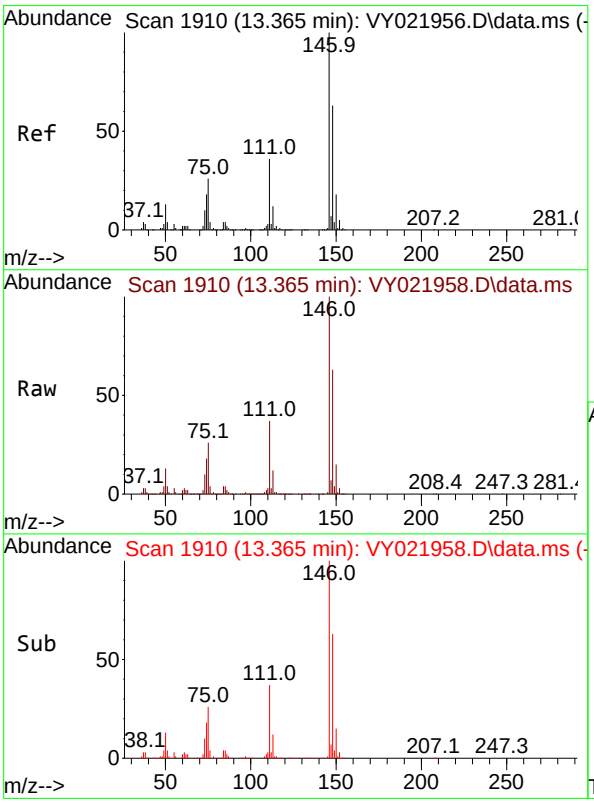
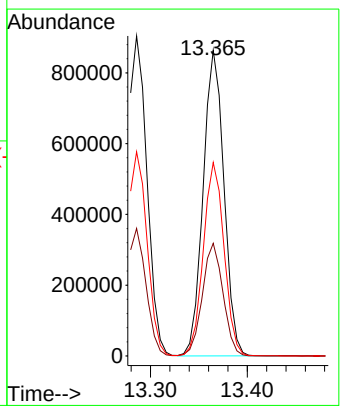


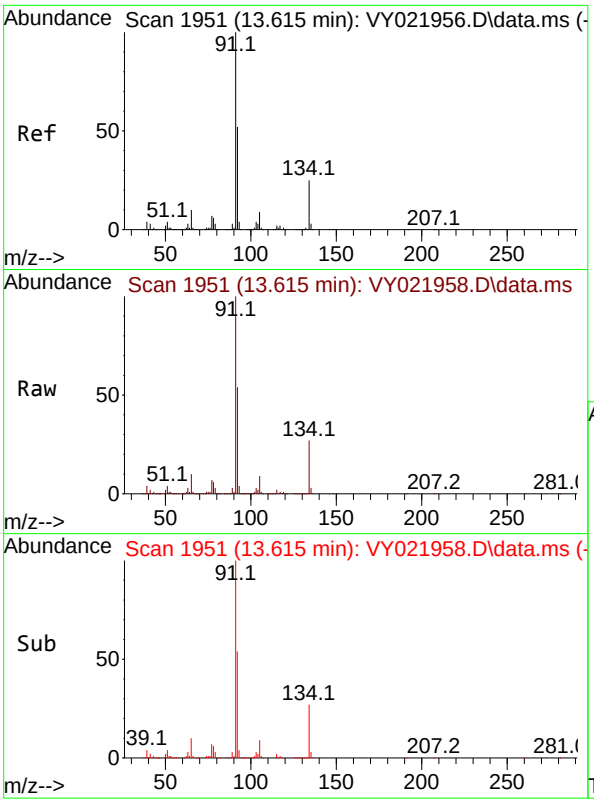


#88
1,4-Dichlorobenzene
Concen: 148.621 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:146 Resp: 1293200

Ion	Ratio	Lower	Upper
146	100		
111	36.6	19.2	57.6
148	63.2	32.0	96.0

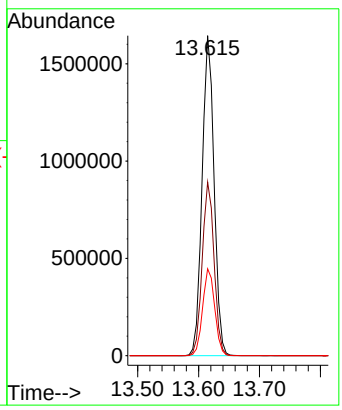




#89
n-Butylbenzene
Concen: 159.720 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 91 Resp: 224406

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.5	79.5
134	27.5	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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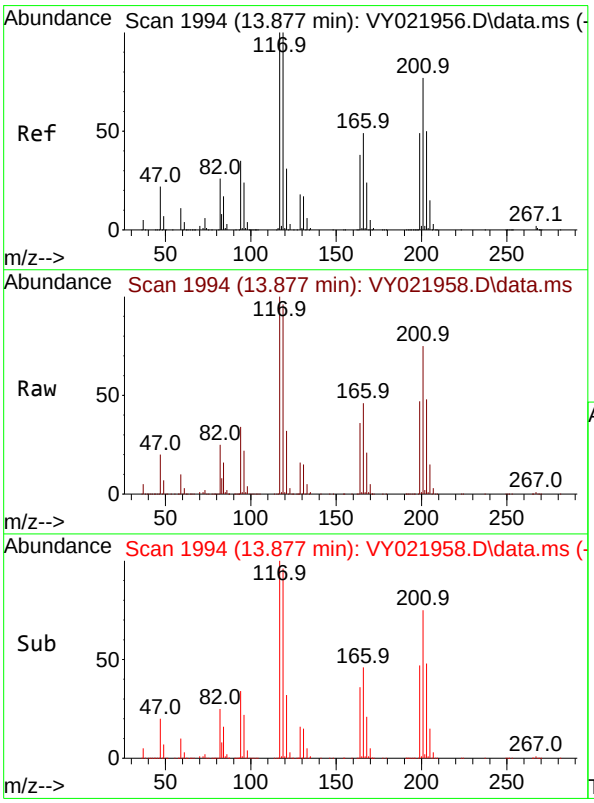
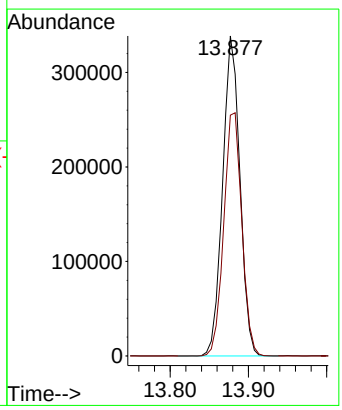
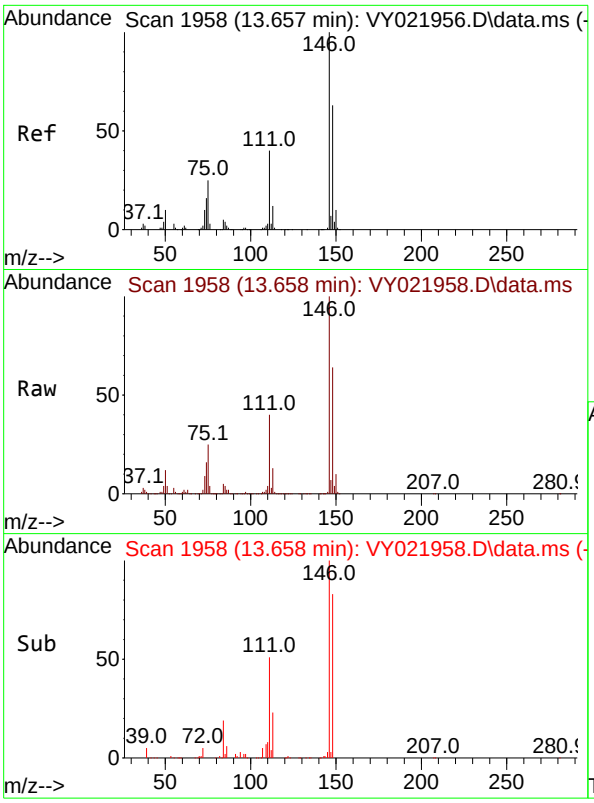


#90
Hexachloroethane
Concen: 150.683 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:117 Resp: 520392

Ion	Ratio	Lower	Upper
117	100		
201	79.2	38.7	116.1

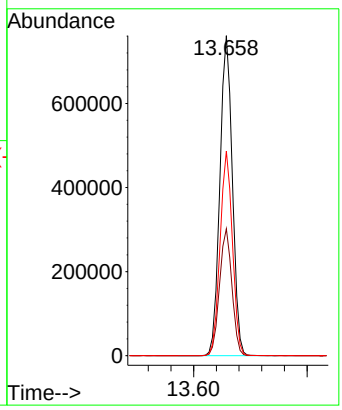




#91
1,2-Dichlorobenzene
Concen: 150.940 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:146 Resp: 115663

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.7	59.1
148	63.4	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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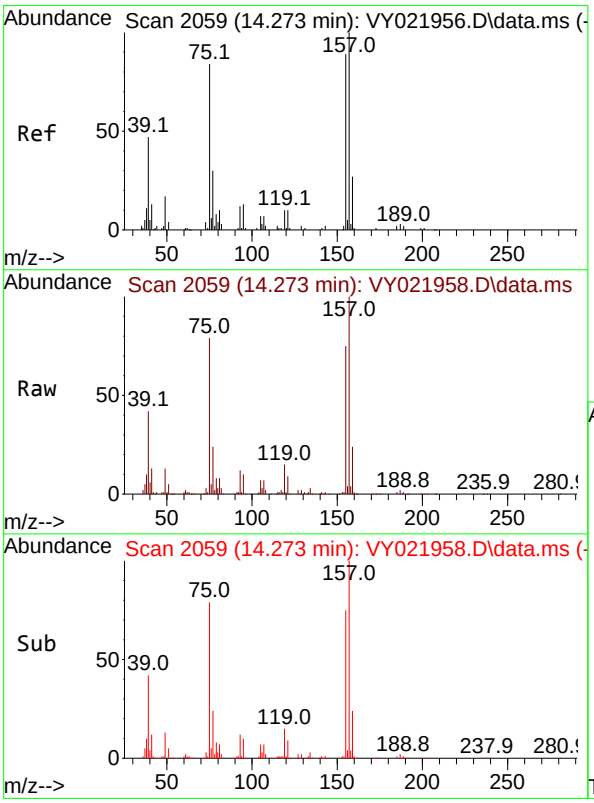
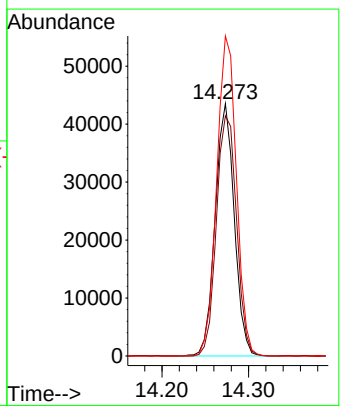
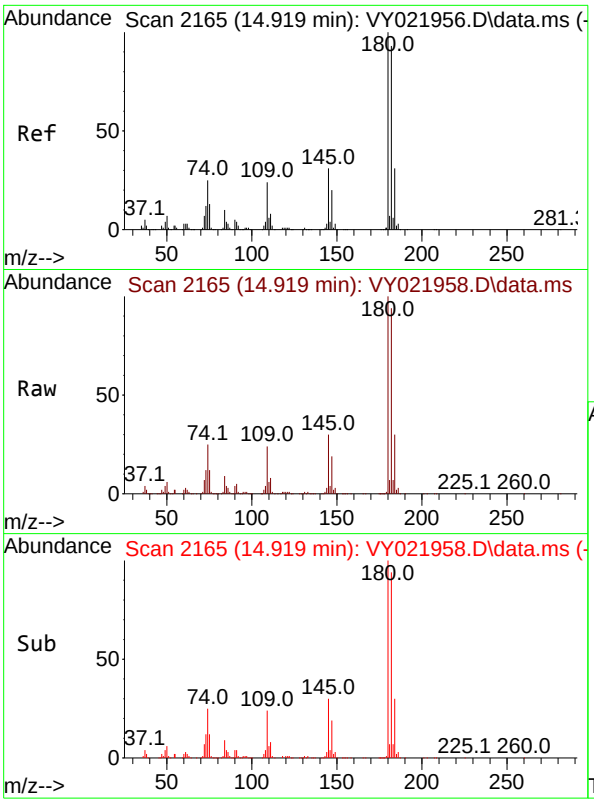


#92
1,2-Dibromo-3-Chloropropane
Concen: 145.323 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion: 75 Resp: 66731

Ion	Ratio	Lower	Upper
75	100		
155	100.4	50.7	152.3
157	130.3	62.6	187.8

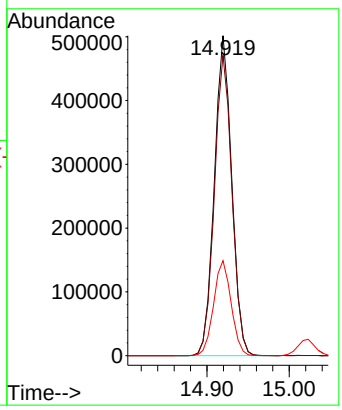




#93
1,2,4-Trichlorobenzene
Concen: 169.770 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:180 Resp: 73719

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.1	141.4
145	30.1	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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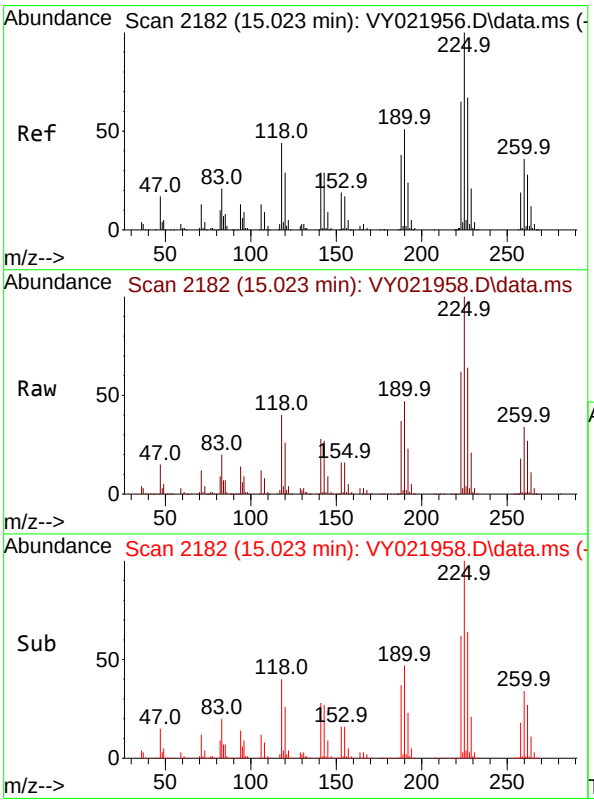
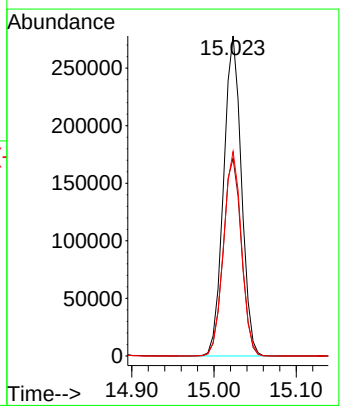
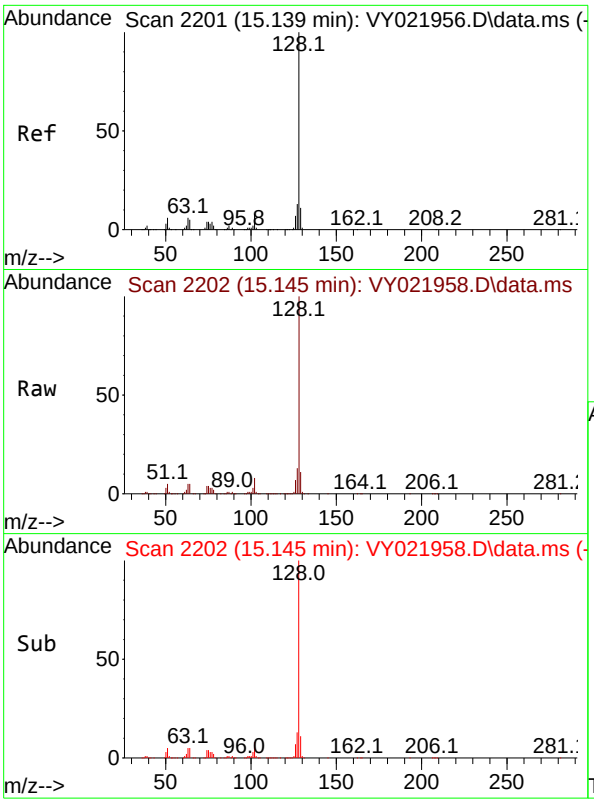


#94
Hexachlorobutadiene
Concen: 156.384 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:225 Resp: 417808

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.5
227	64.1	32.3	96.9

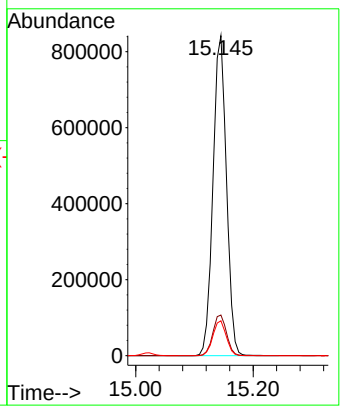




#95
Naphthalene
Concen: 185.231 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:128 Resp: 133614

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.9	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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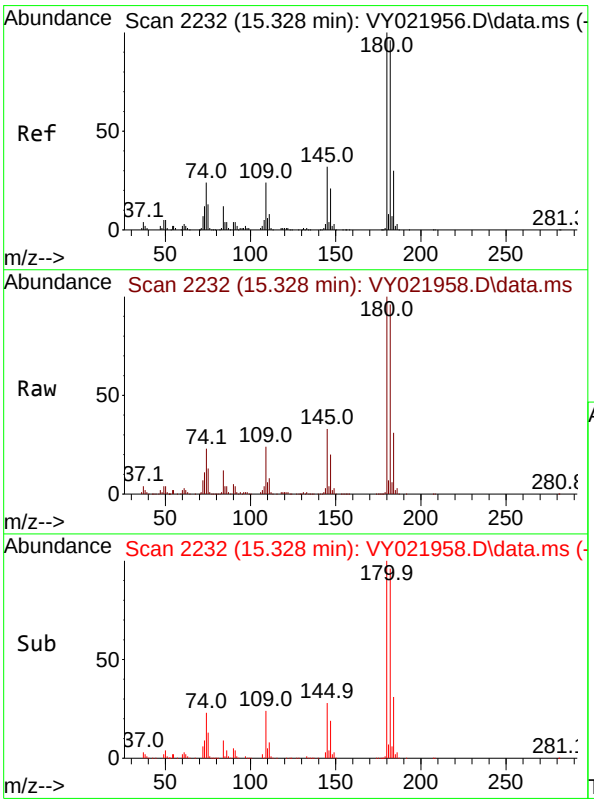
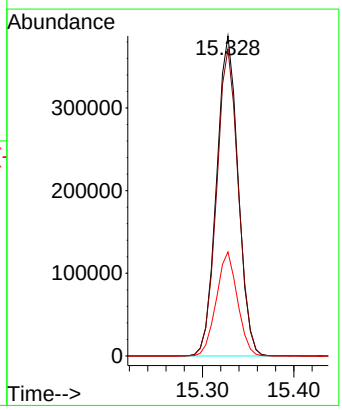


#96
1,2,3-Trichlorobenzene
Concen: 169.182 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021958.D
Acq: 22 Apr 2025 16:15

Tgt Ion:180 Resp: 634152

Ion	Ratio	Lower	Upper
180	100		
182	96.3	48.1	144.4
145	31.9	16.0	48.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	332081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	512398	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	467094	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	250602	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	147920	48.224	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.440%			
35) Dibromofluoromethane	7.634	113	165837	48.989	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.980%			
50) Toluene-d8	10.103	98	644989	50.539	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.080%			
62) 4-Bromofluorobenzene	12.402	95	219958	51.198	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	131226	46.375	ug/l	99
3) Chloromethane	2.068	50	183085	45.440	ug/l	97
4) Vinyl Chloride	2.202	62	224944	45.432	ug/l	99
5) Bromomethane	2.592	94	176551	41.389	ug/l	98
6) Chloroethane	2.733	64	149594	44.363	ug/l	96
7) Trichlorofluoromethane	3.056	101	301166	46.128	ug/l	98
8) Diethyl Ether	3.452	74	78016	45.910	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	163507	46.166	ug/l	99
10) Methyl Iodide	4.001	142	185031	45.123	ug/l	99
11) Tert butyl alcohol	4.872	59	38184	226.751	ug/l	97
12) 1,1-Dichloroethene	3.787	96	159060	48.182	ug/l	98
13) Acrolein	3.653	56	68719	227.366	ug/l	99
14) Allyl chloride	4.379	41	182426	47.458	ug/l	99
15) Acrylonitrile	5.055	53	140962	226.587	ug/l	98
16) Acetone	3.873	43	93445	231.130	ug/l	90
17) Carbon Disulfide	4.104	76	494065	46.938	ug/l	99
18) Methyl Acetate	4.385	43	70072	48.904	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	353863	47.891	ug/l	99
20) Methylene Chloride	4.610	84	175109	45.147	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	175356	47.430	ug/l	95
22) Diisopropyl ether	6.019	45	412936	48.273	ug/l	99
23) Vinyl Acetate	5.958	43	1105629	239.824	ug/l	100
24) 1,1-Dichloroethane	5.915	63	275152	46.404	ug/l	99
25) 2-Butanone	6.890	43	153920	220.139	ug/l	97
26) 2,2-Dichloropropane	6.884	77	240796	46.334	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	197583	47.795	ug/l	99
28) Bromochloromethane	7.244	49	111601	48.457	ug/l	98
29) Tetrahydrofuran	7.262	42	104080	229.194	ug/l	95
30) Chloroform	7.421	83	306777	46.643	ug/l	98
31) Cyclohexane	7.701	56	236026	46.548	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	279709	47.007	ug/l	99
36) 1,1-Dichloropropene	7.835	75	217873	47.914	ug/l	98
37) Ethyl Acetate	6.982	43	75275	46.092	ug/l	98
38) Carbon Tetrachloride	7.817	117	258803	47.630	ug/l	98
39) Methylcyclohexane	9.110	83	283178	49.486	ug/l	98
40) Benzene	8.079	78	677917	47.692	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	38694	43.342 ug/l #	86
42) 1,2-Dichloroethane	8.158	62	163549	46.472 ug/l	99
43) Isopropyl Acetate	8.195	43	145980	46.545 ug/l	98
44) Trichloroethene	8.860	130	185153	47.027 ug/l	99
45) 1,2-Dichloropropane	9.140	63	148767	47.326 ug/l	97
46) Dibromomethane	9.231	93	91655	46.578 ug/l	99
47) Bromodichloromethane	9.420	83	235736	47.955 ug/l	97
48) Methyl methacrylate	9.219	41	71174	49.090 ug/l	98
49) 1,4-Dioxane	9.225	88	19954	951.409 ug/l	90
51) 4-Methyl-2-Pentanone	9.993	43	391245	237.972 ug/l	100
52) Toluene	10.170	92	448774	48.774 ug/l	100
53) t-1,3-Dichloropropene	10.390	75	201939	47.893 ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	241197	48.122 ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	124598	47.403 ug/l	97
56) Ethyl methacrylate	10.439	69	150855	50.188 ug/l	99
57) 1,3-Dichloropropane	10.713	76	198147	47.024 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	373183	253.928 ug/l	99
59) 2-Hexanone	10.756	43	258458	238.340 ug/l	100
60) Dibromochloromethane	10.908	129	170608	46.882 ug/l	97
61) 1,2-Dibromoethane	11.012	107	117095	47.188 ug/l	99
64) Tetrachloroethene	10.646	164	205118	46.550 ug/l	96
65) Chlorobenzene	11.438	112	498605	47.734 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.512	131	177647	48.308 ug/l	99
67) Ethyl Benzene	11.518	91	856779	50.142 ug/l	100
68) m/p-Xylenes	11.627	106	687961	101.181 ug/l	99
69) o-Xylene	11.950	106	319291	50.949 ug/l	99
70) Styrene	11.969	104	542034	51.513 ug/l	100
71) Bromoform	12.127	173	102241	47.821 ug/l #	100
73) Isopropylbenzene	12.249	105	833210	49.765 ug/l	99
74) N-amyl acetate	12.066	43	133081	46.264 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	130070	46.078 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	92664m	43.169 ug/l	
77) Bromobenzene	12.530	156	201978	47.741 ug/l	99
78) n-propylbenzene	12.591	91	995089	49.907 ug/l	100
79) 2-Chlorotoluene	12.676	91	560663	48.351 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	691575	50.131 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	39491	44.304 ug/l	98
82) 4-Chlorotoluene	12.773	91	583487	48.406 ug/l	100
83) tert-Butylbenzene	12.993	119	637155	51.499 ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	693849	50.285 ug/l	100
85) sec-Butylbenzene	13.170	105	912398	50.397 ug/l	99
86) p-Isopropyltoluene	13.292	119	781445	50.831 ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	408394	47.528 ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	401694	47.202 ug/l	99
89) n-Butylbenzene	13.615	91	689937	50.209 ug/l	99
90) Hexachloroethane	13.877	117	160136	47.410 ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	354764	47.337 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19379	43.151 ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	207298	48.811 ug/l	99
94) Hexachlorobutadiene	15.023	225	126404	48.376 ug/l	98
95) Naphthalene	15.145	128	345515	48.975 ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	175651	47.914 ug/l	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

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\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
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Manual Integrations APPROVED

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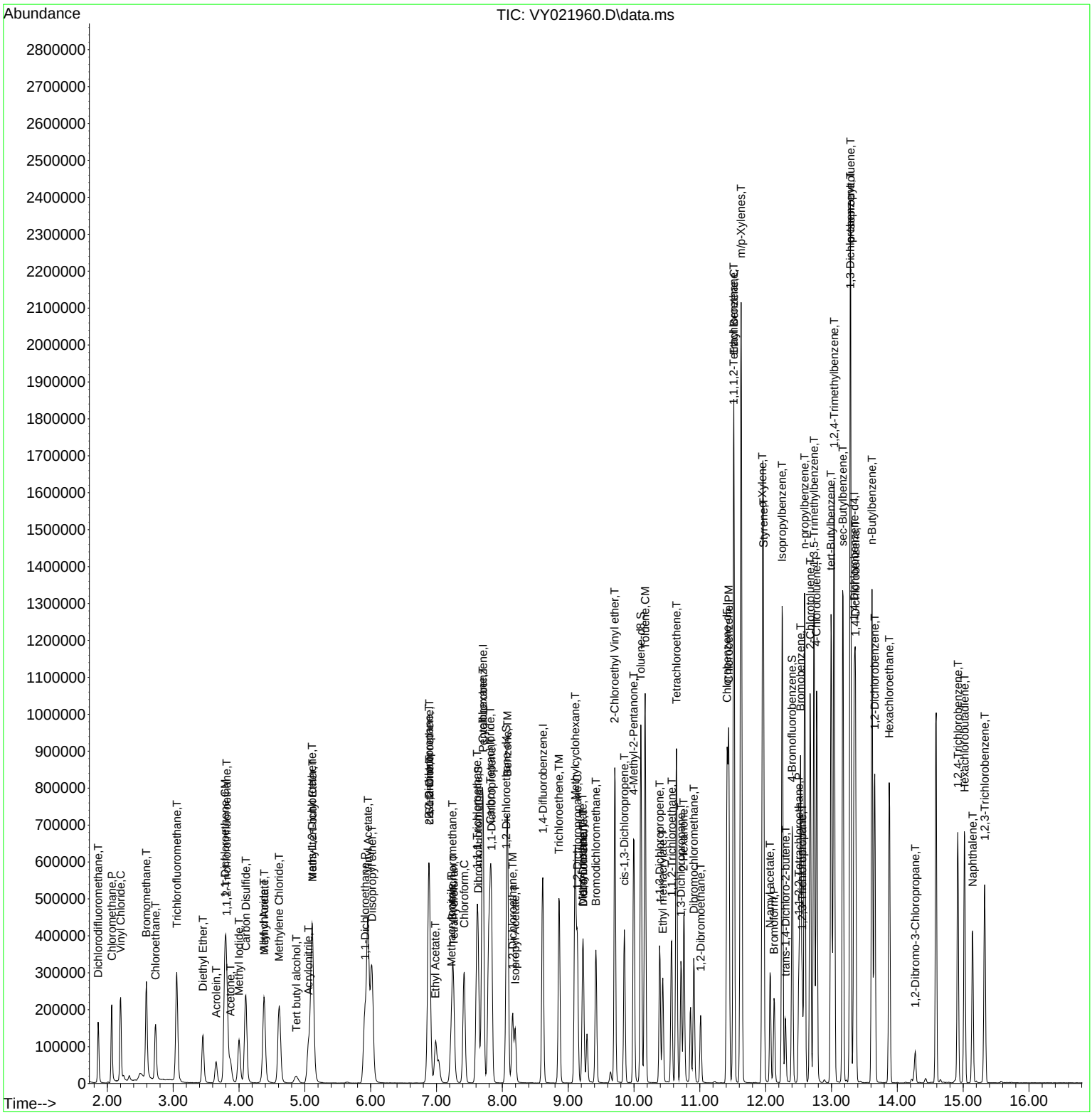
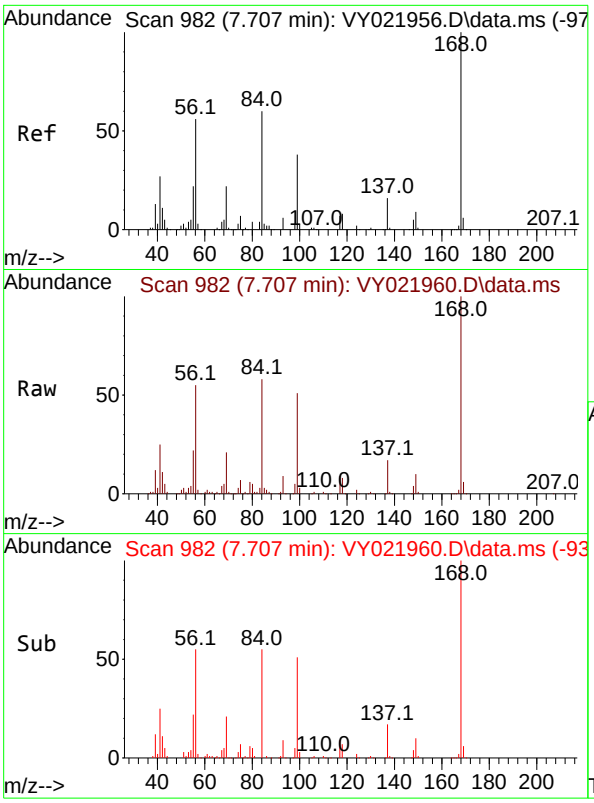
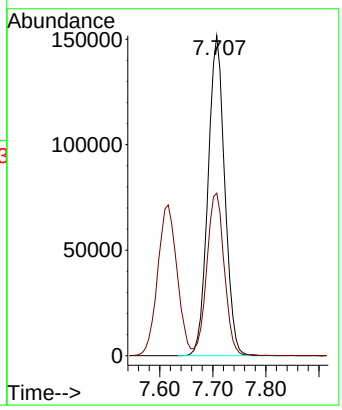




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:168 Resp: 33208

Ion	Ratio	Lower	Upper
168	100		
99	50.7	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
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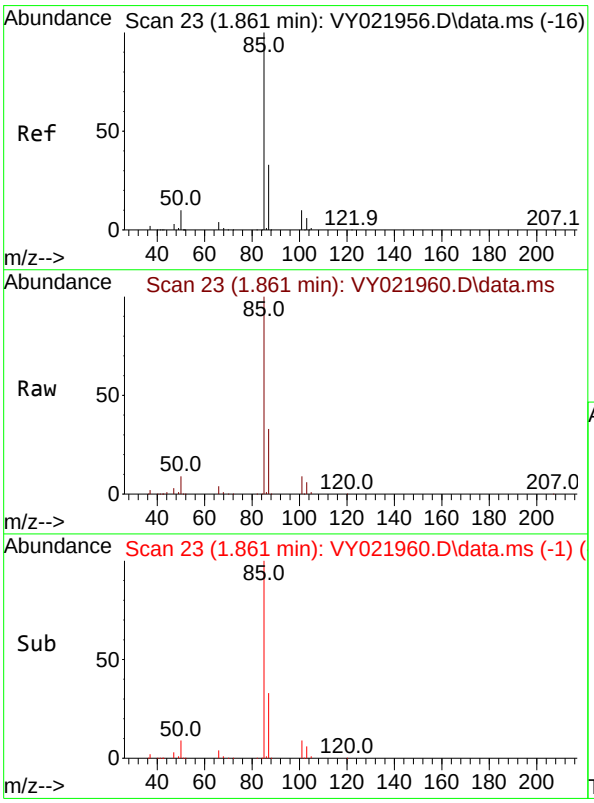
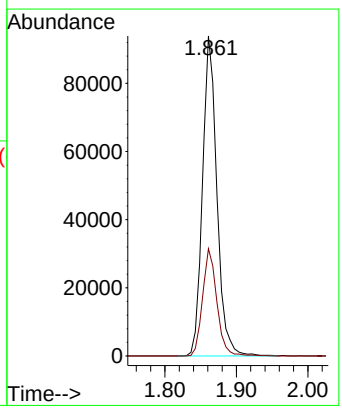
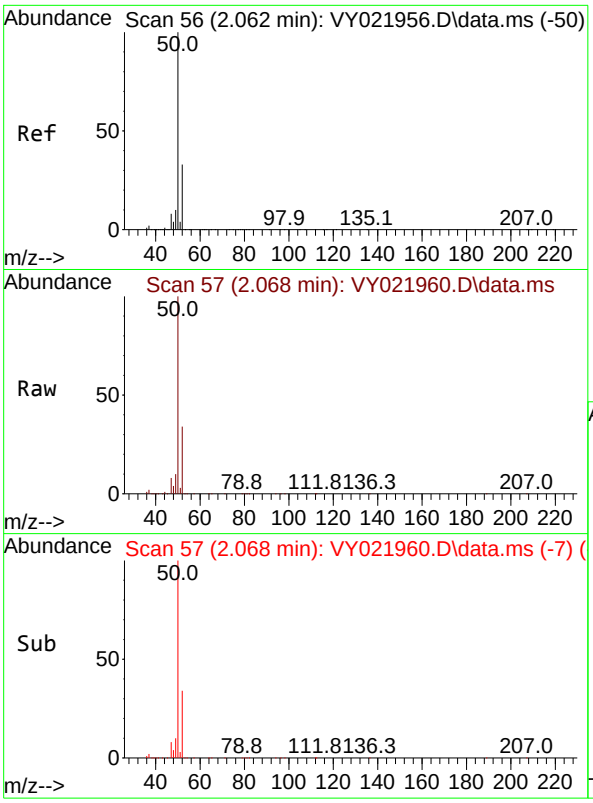


#2
Dichlorodifluoromethane
Concen: 46.375 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 85 Resp: 131226

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.6	49.7

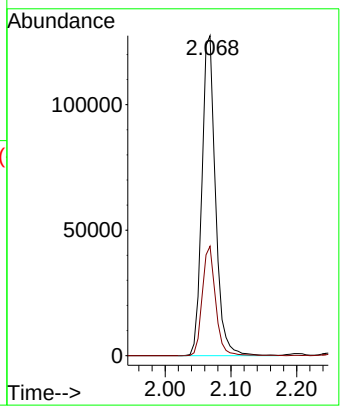




#3
Chloromethane
Concen: 45.440 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 50 Resp: 18308

Ion	Ratio	Lower	Upper
50	100		
52	34.2	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

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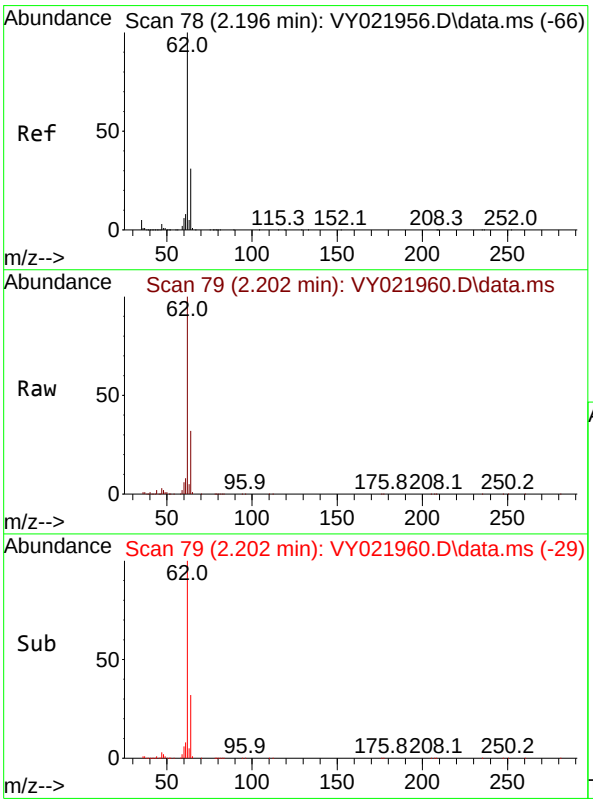
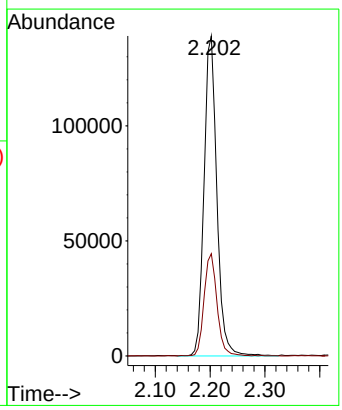
Supervised By :Mahesh Dadoda 04/23/2025

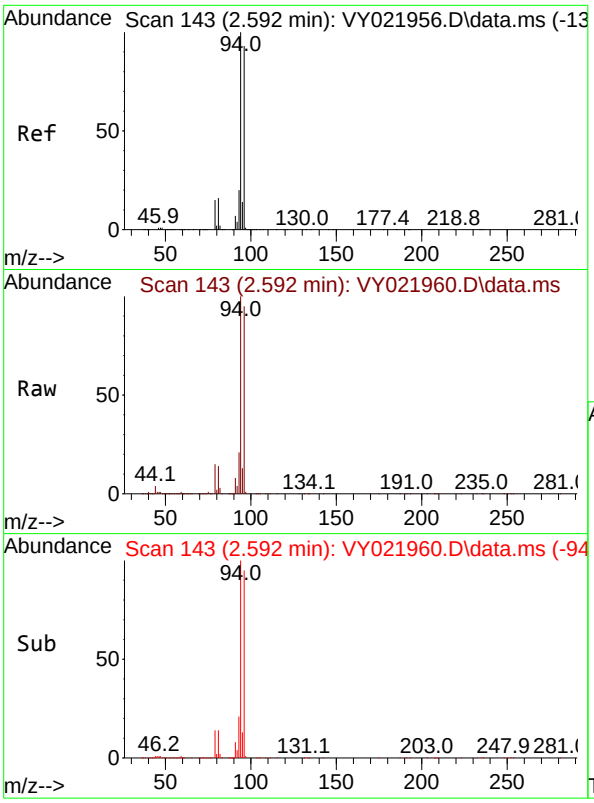


#4
Vinyl Chloride
Concen: 45.432 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 62 Resp: 224944

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.1	37.7





#5
Bromomethane
Concen: 41.389 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

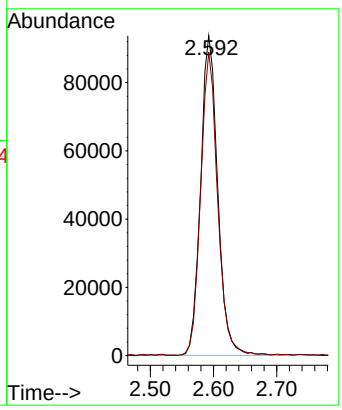
Tgt Ion: 94 Resp: 17655

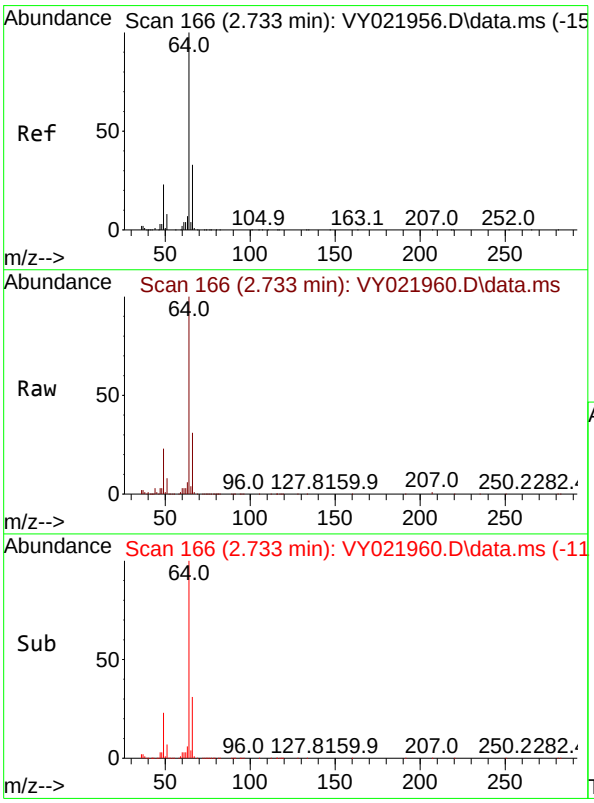
Ion	Ratio	Lower	Upper
94	100		
96	94.9	74.6	111.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

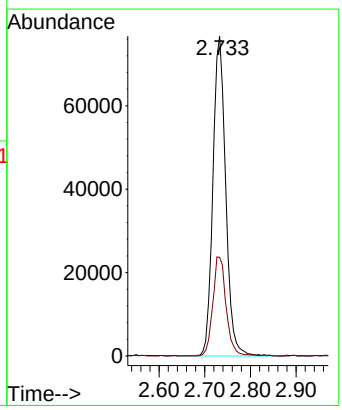


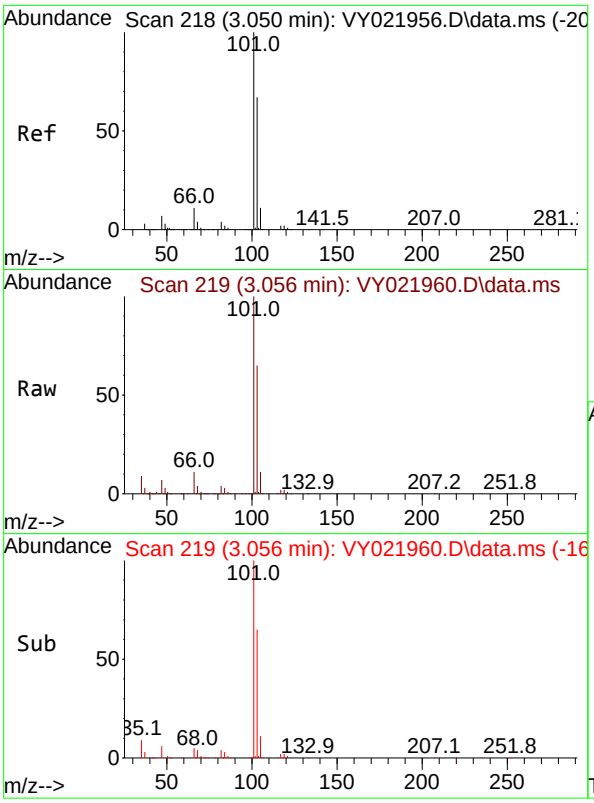


#6
Chloroethane
Concen: 44.363 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 64 Resp: 149594

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.2	39.4

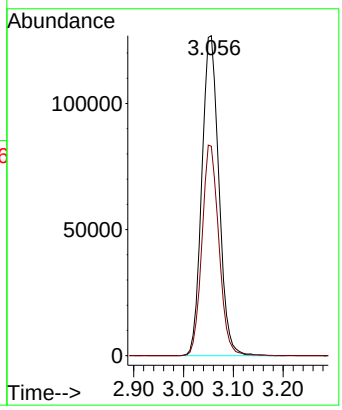




#7
Trichlorofluoromethane
Concen: 46.128 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:101 Resp: 30116

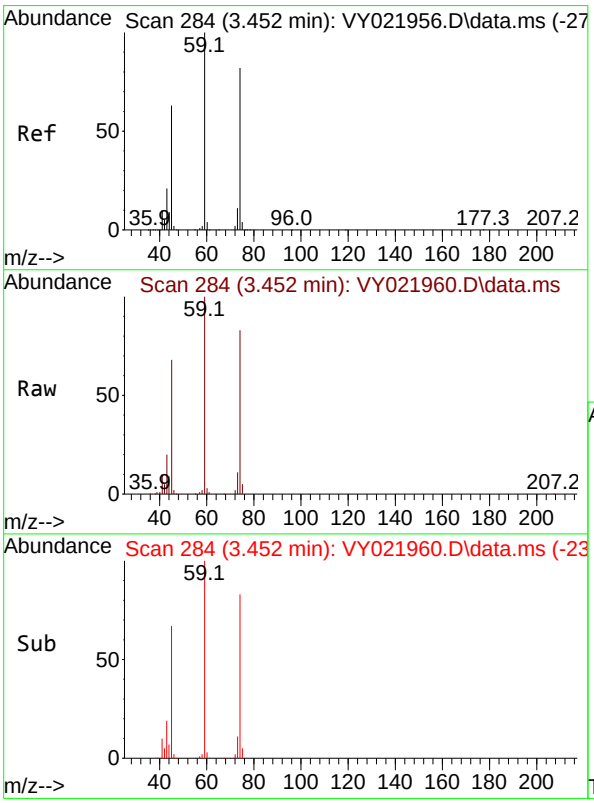
Ion	Ratio	Lower	Upper
101	100		
103	65.4	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

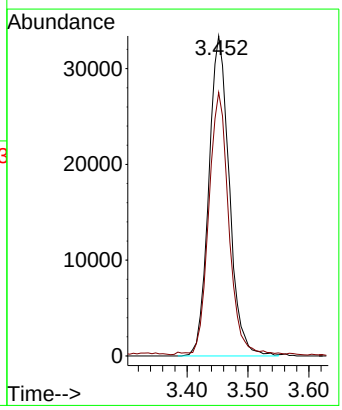
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

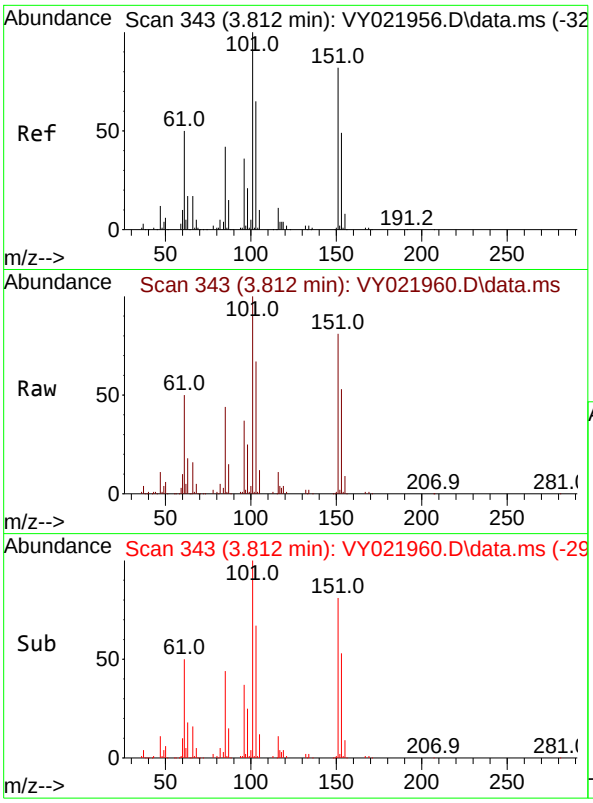


#8
Diethyl Ether
Concen: 45.910 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 74 Resp: 78016

Ion	Ratio	Lower	Upper
74	100		
45	79.3	39.1	117.5

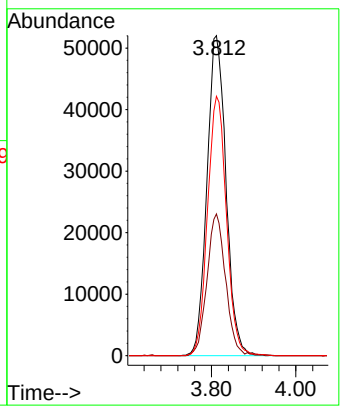




#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.166 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:101 Resp: 16350

Ion	Ratio	Lower	Upper
101	100		
85	43.4	34.6	51.8
151	80.5	63.7	95.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

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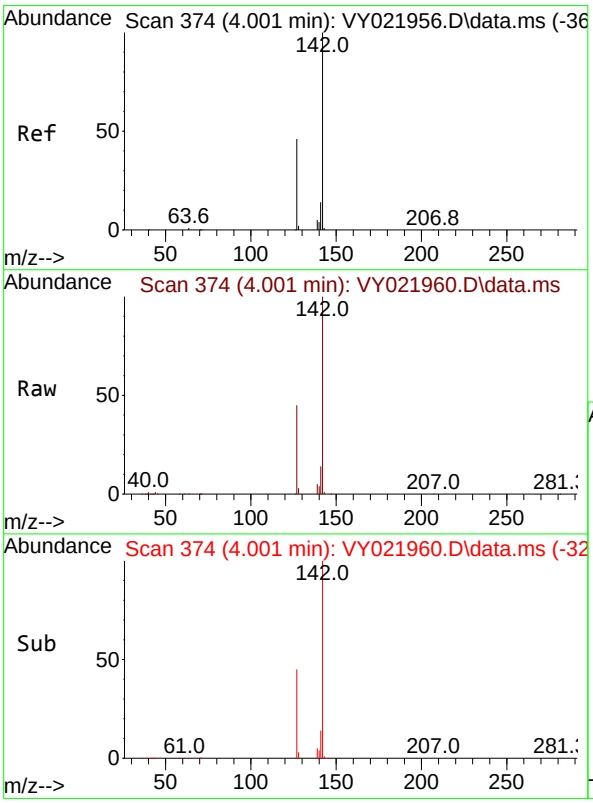
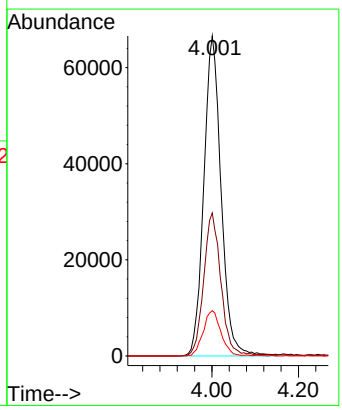
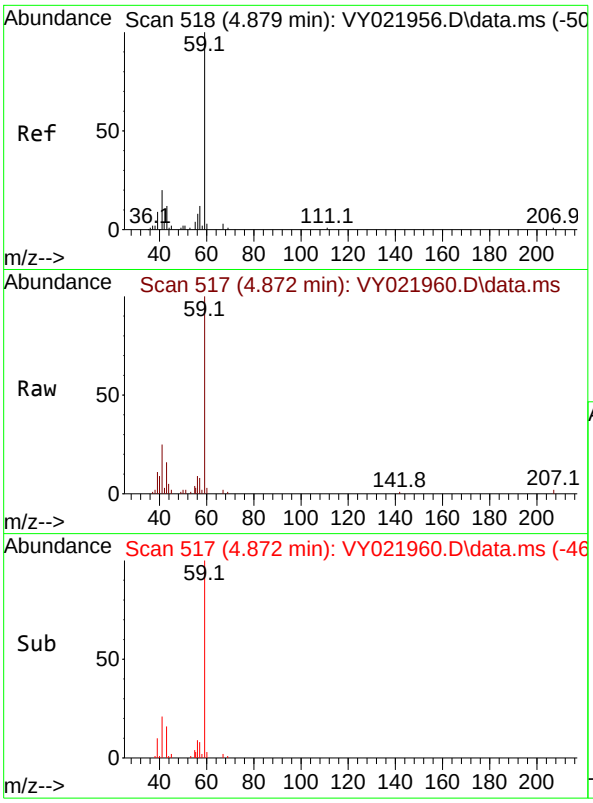


#10
Methyl Iodide
Concen: 45.123 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:142 Resp: 185031

Ion	Ratio	Lower	Upper
142	100		
127	44.4	36.2	54.2
141	14.5	11.7	17.5





#11
Tert butyl alcohol
Concen: 226.751 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 59 Resp: 3818

Ion	Ratio	Lower	Upper
59	100		
57	10.5	9.3	13.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

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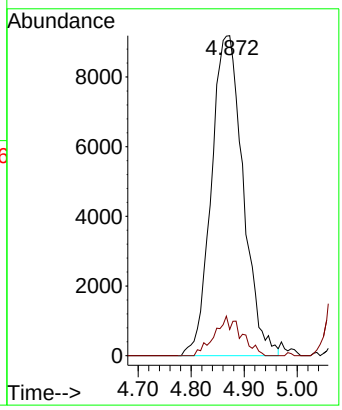
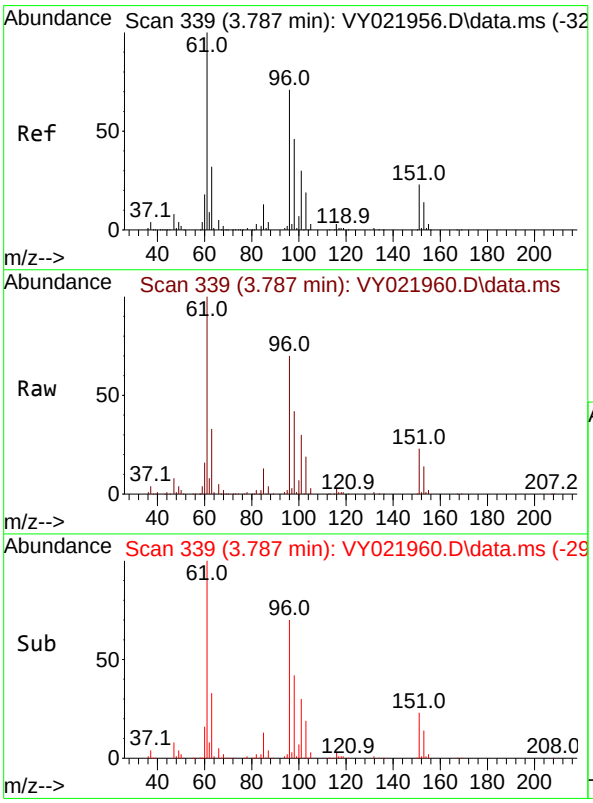
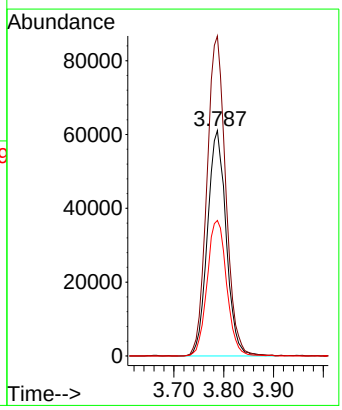


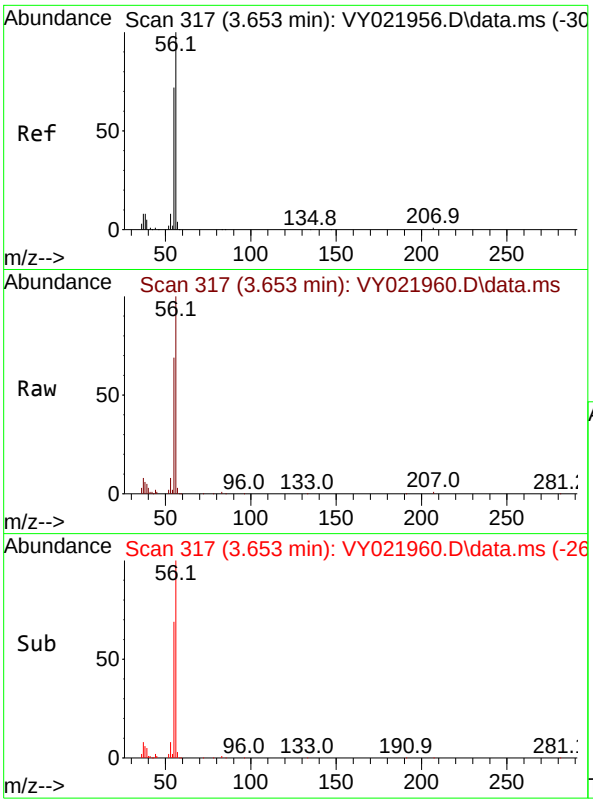


#12
1,1-Dichloroethene
Concen: 48.182 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 96 Resp: 159060

Ion	Ratio	Lower	Upper
96	100		
61	141.9	113.0	169.4
98	60.1	51.4	77.2

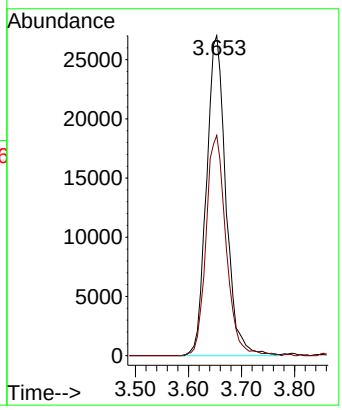




#13
Acrolein
Concen: 227.366 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 56 Resp: 6871

Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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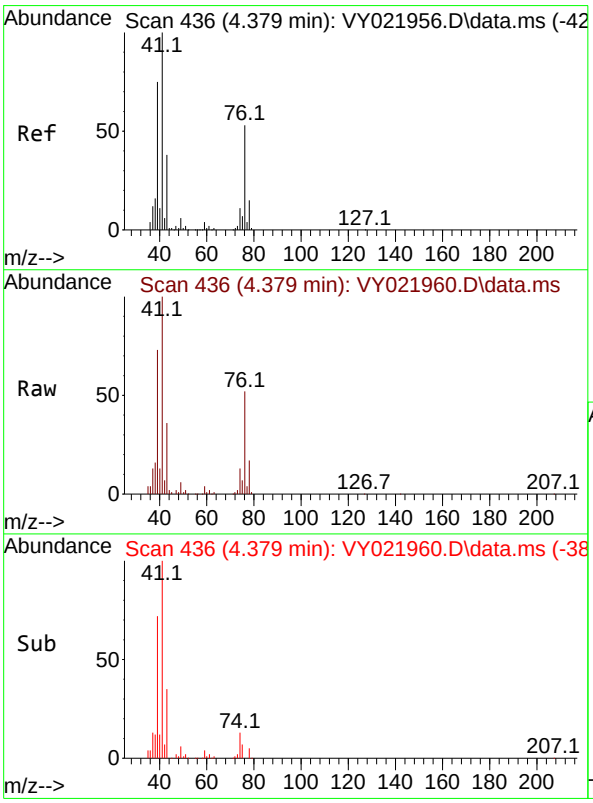
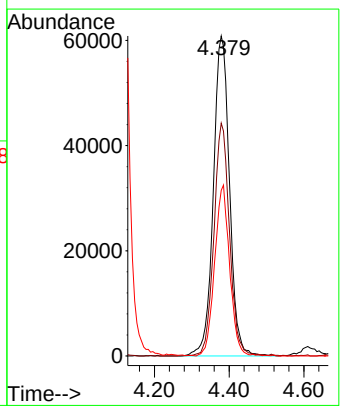
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

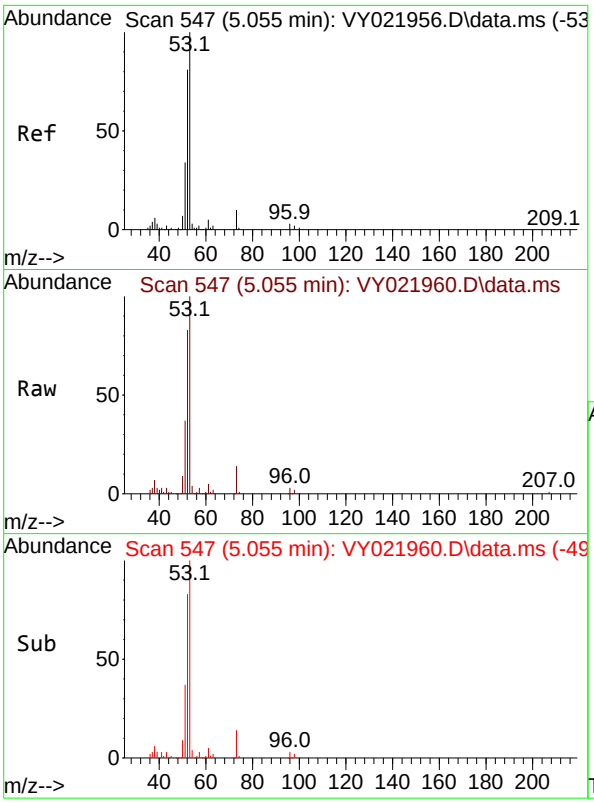


#14
Allyl chloride
Concen: 47.458 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 41 Resp: 182426

Ion	Ratio	Lower	Upper
41	100		
39	70.4	57.2	85.8
76	49.8	39.7	59.5

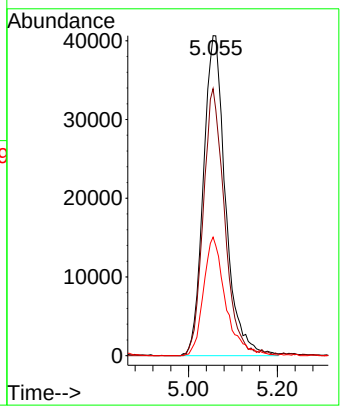




#15
Acrylonitrile
Concen: 226.587 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 53 Resp: 14096

Ion	Ratio	Lower	Upper
53	100		
52	79.8	65.0	97.6
51	37.0	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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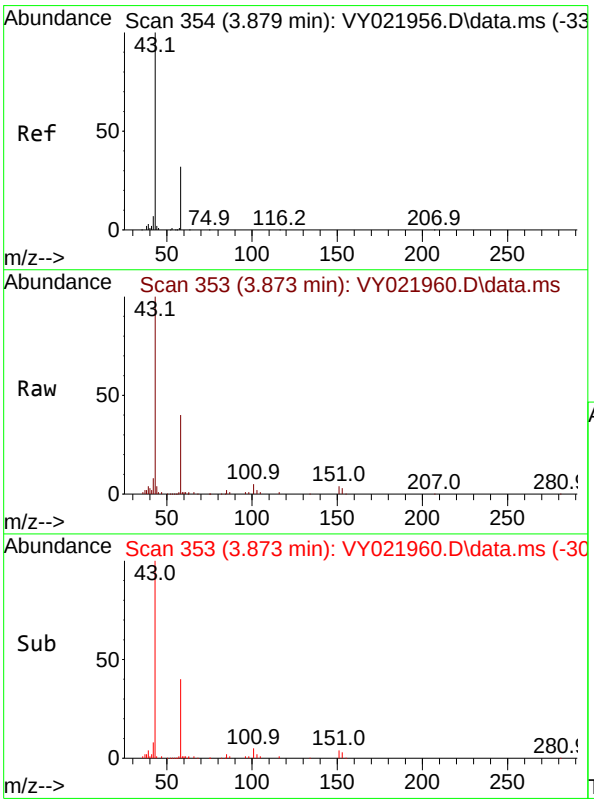
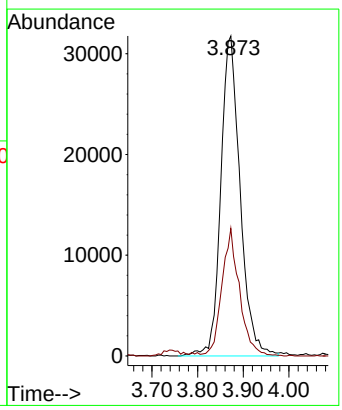
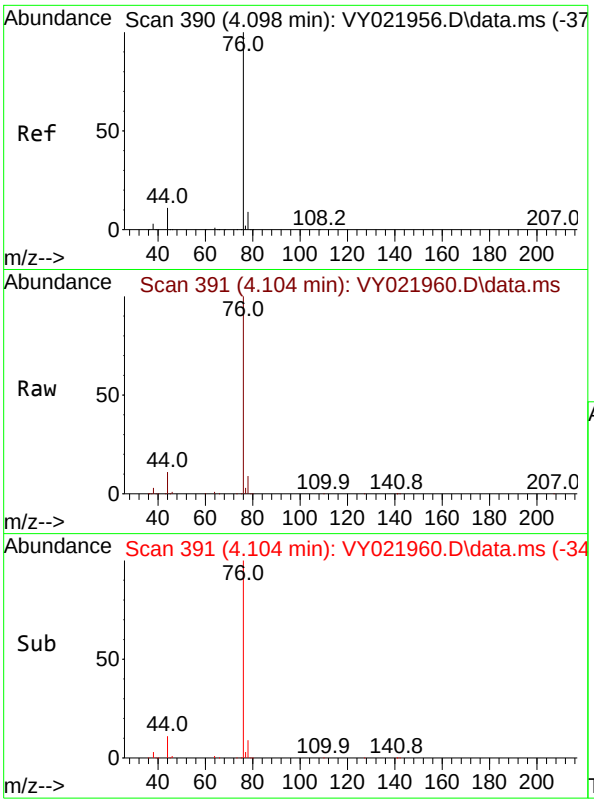


#16
Acetone
Concen: 231.130 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 93445

Ion	Ratio	Lower	Upper
43	100		
58	39.7	27.0	40.4





#17
Carbon Disulfide
Concen: 46.938 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 76 Resp: 49406

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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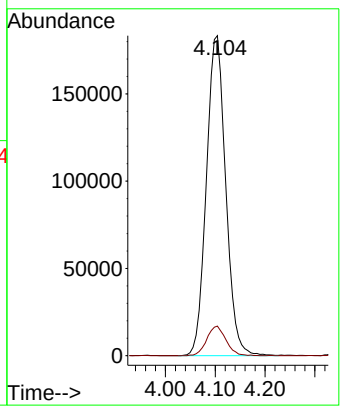
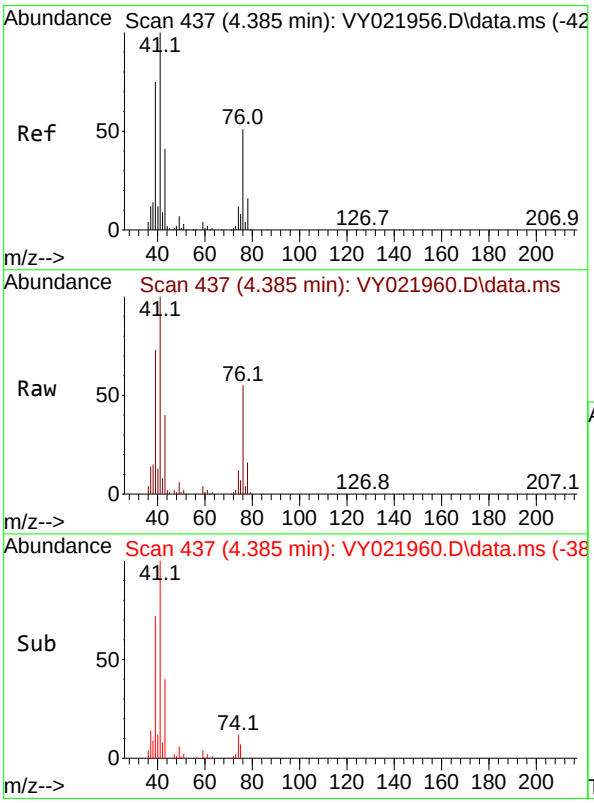
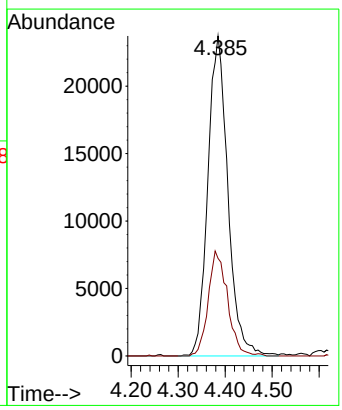


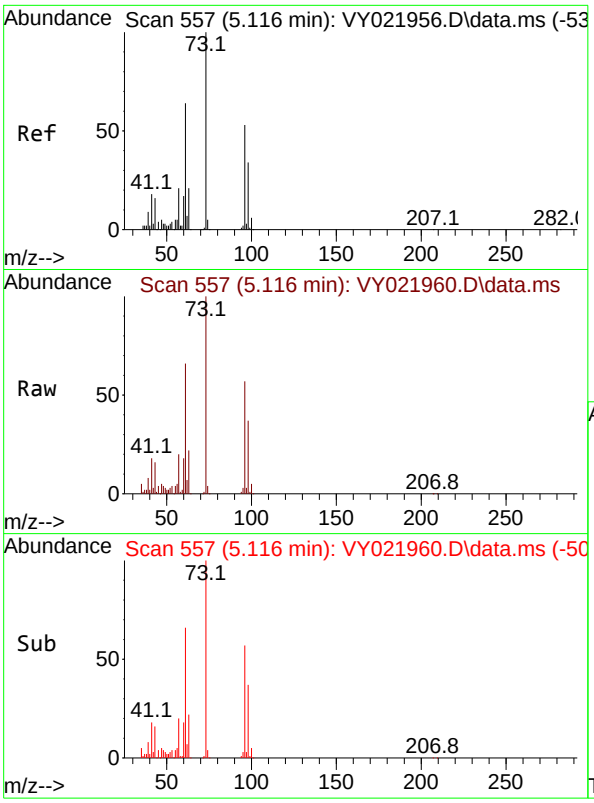


#18
Methyl Acetate
Concen: 48.904 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 70072

Ion	Ratio	Lower	Upper
43	100		
74	31.5	24.2	36.4

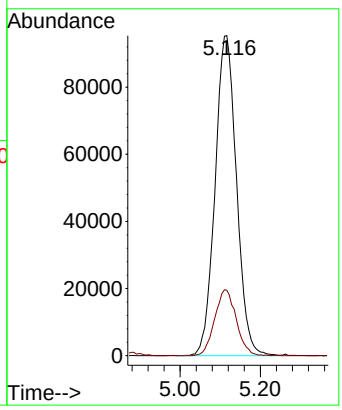




#19
Methyl tert-butyl Ether
Concen: 47.891 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 73 Resp: 35386

Ion	Ratio	Lower	Upper
73	100		
57	20.5	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
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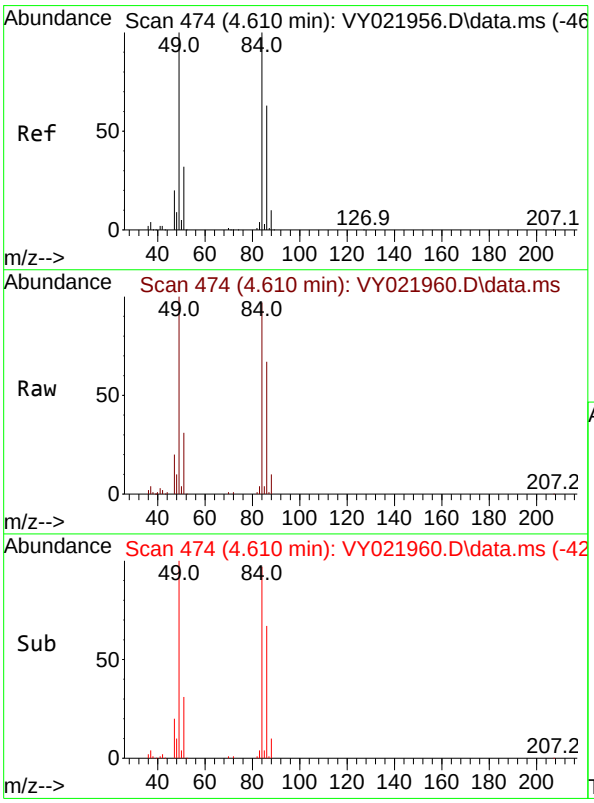
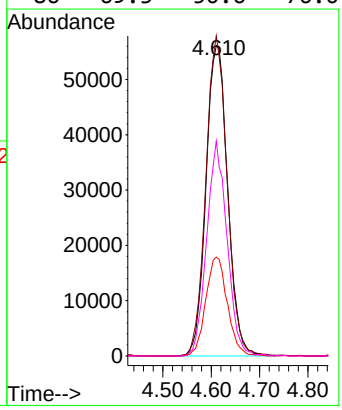
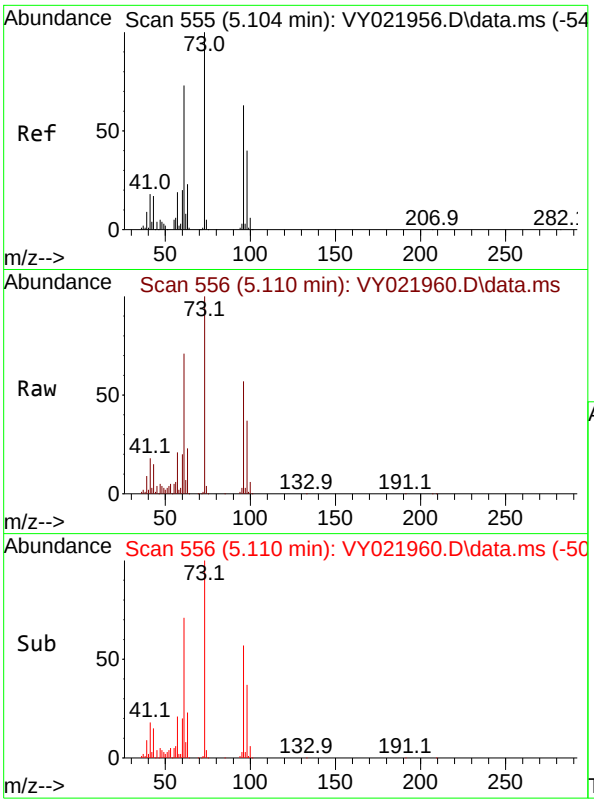


#20
Methylene Chloride
Concen: 45.147 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 84 Resp: 175109

Ion	Ratio	Lower	Upper
84	100		
49	103.2	79.9	119.9
51	31.9	25.4	38.0
86	69.3	50.6	76.0

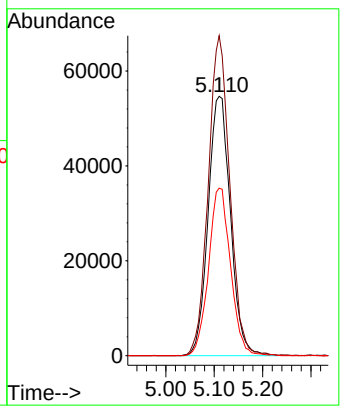




#21
trans-1,2-Dichloroethene
Concen: 47.430 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 96 Resp: 17535

Ion	Ratio	Lower	Upper
96	100		
61	123.3	92.6	138.8
98	64.6	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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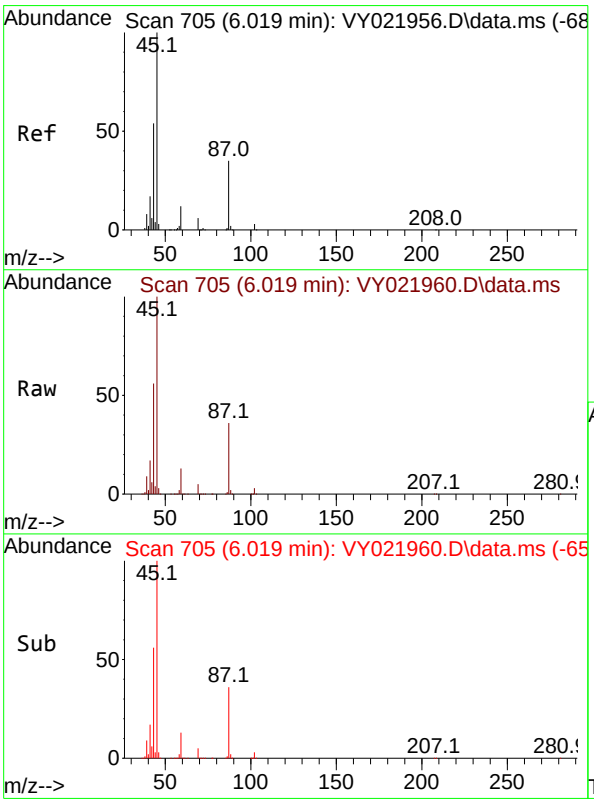
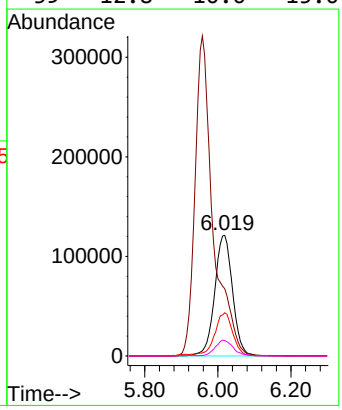
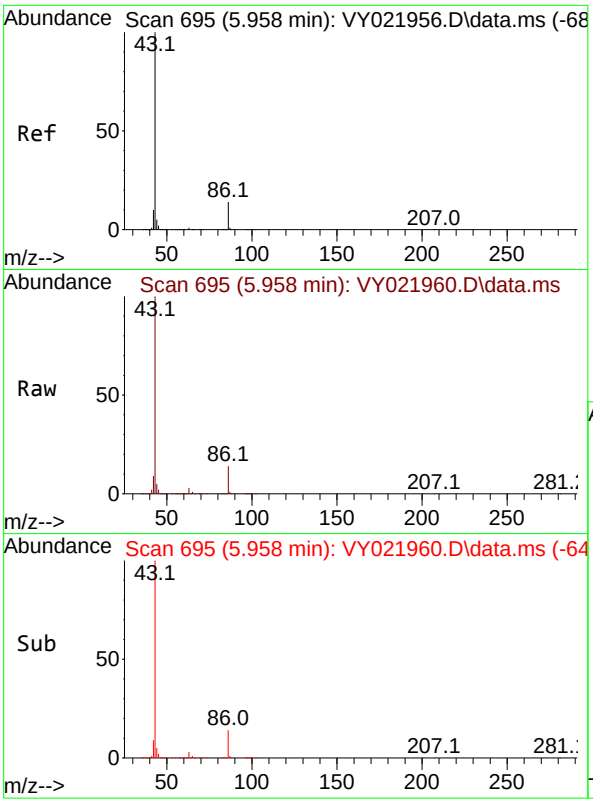


#22
Diisopropyl ether
Concen: 48.273 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 45 Resp: 412936

Ion	Ratio	Lower	Upper
45	100		
43	55.5	43.6	65.4
87	35.9	28.2	42.4
59	12.8	10.0	15.0

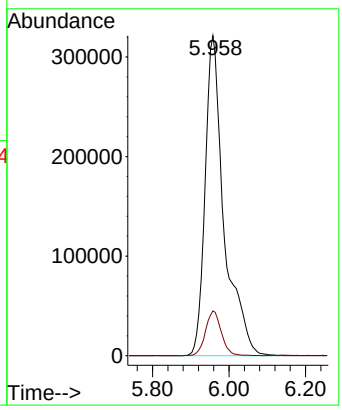




#23
Vinyl Acetate
Concen: 239.824 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 110562

Ion	Ratio	Lower	Upper
43	100		
86	14.0	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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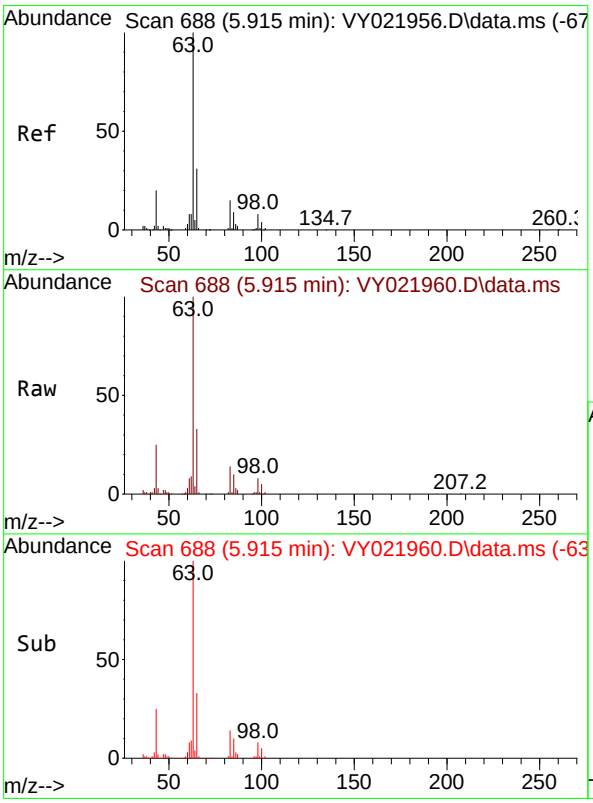
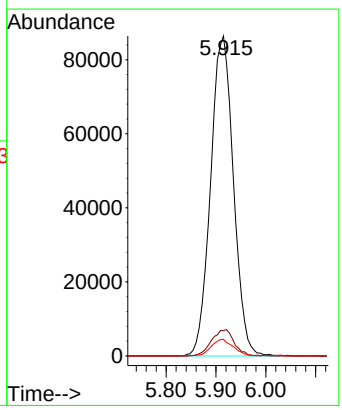
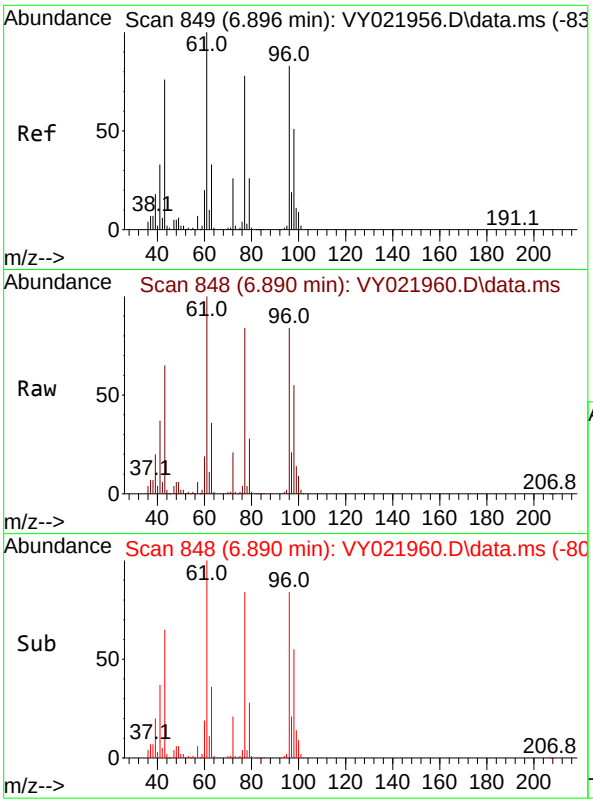


#24
1,1-Dichloroethane
Concen: 46.404 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 63 Resp: 275152

Ion	Ratio	Lower	Upper
63	100		
98	7.9	4.0	11.9
100	5.2	2.0	6.0





#25
2-Butanone
Concen: 220.139 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 15392(

Ion	Ratio	Lower	Upper
43	100		
72	31.9	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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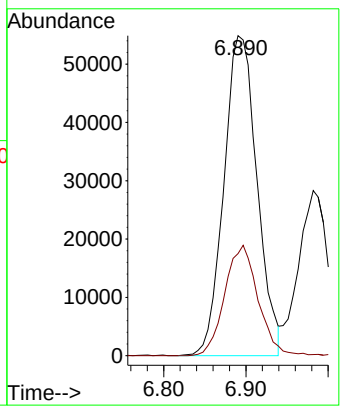
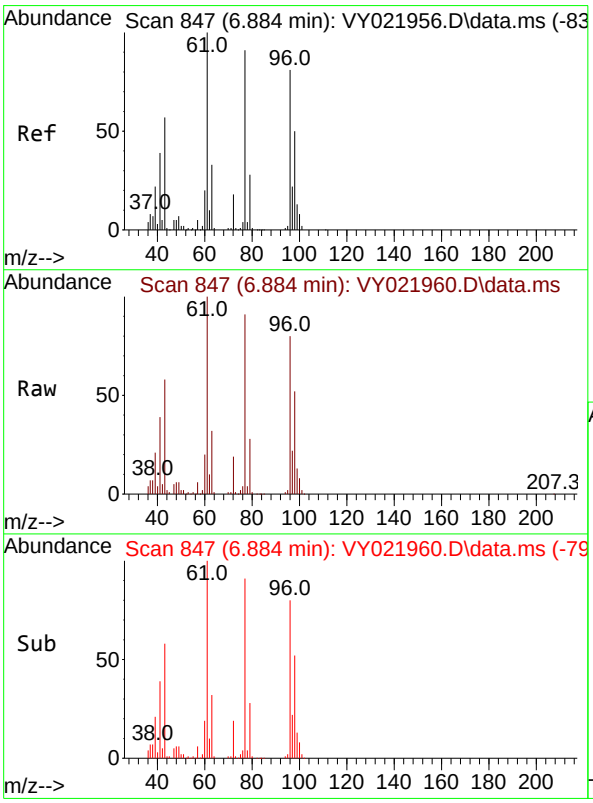
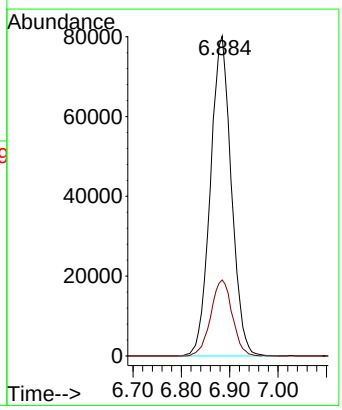


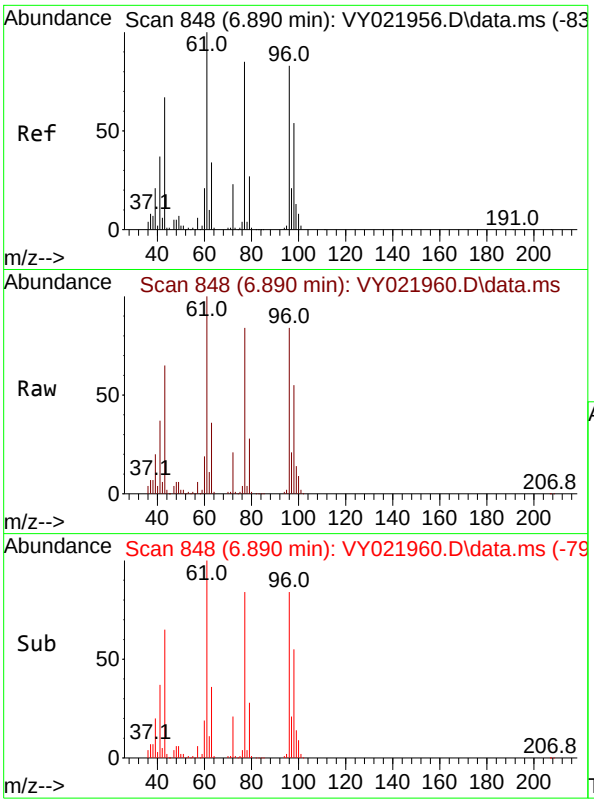


#26
2,2-Dichloropropane
Concen: 46.334 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 77 Resp: 240796

Ion	Ratio	Lower	Upper
77	100		
97	24.3	12.4	37.4





#27
cis-1,2-Dichloroethene
Concen: 47.795 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 96 Resp: 19758

Ion	Ratio	Lower	Upper
96	100		
61	126.0	0.0	251.4
98	65.8	0.0	128.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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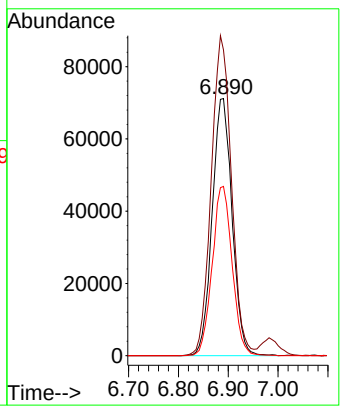
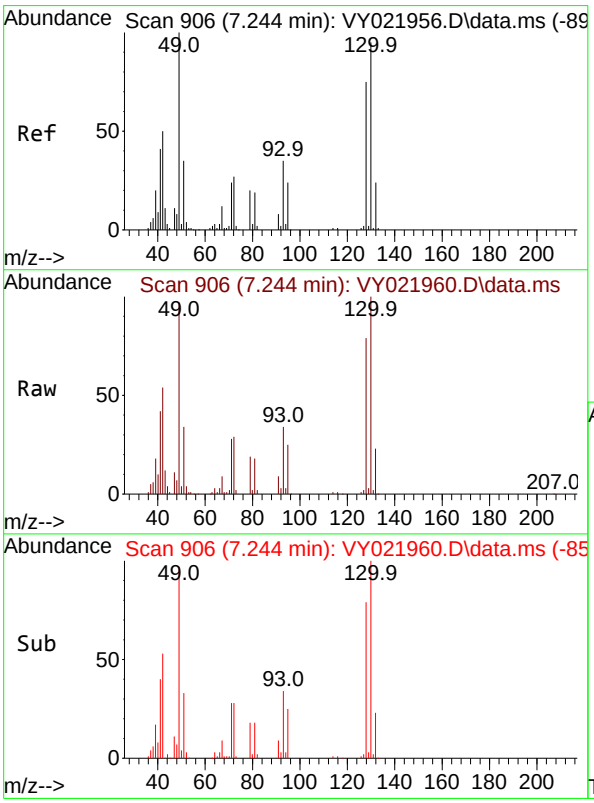
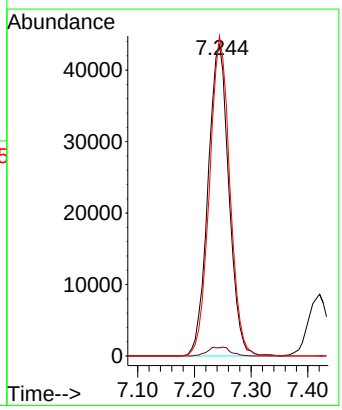


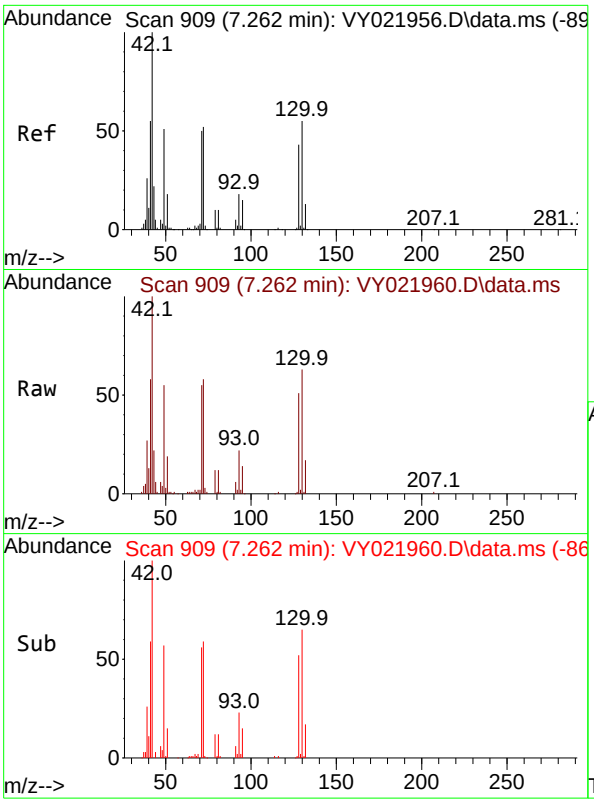


#28
Bromochloromethane
Concen: 48.457 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 49 Resp: 111601

Ion	Ratio	Lower	Upper
49	100		
129	3.1	0.0	5.0
130	99.6	78.2	117.4

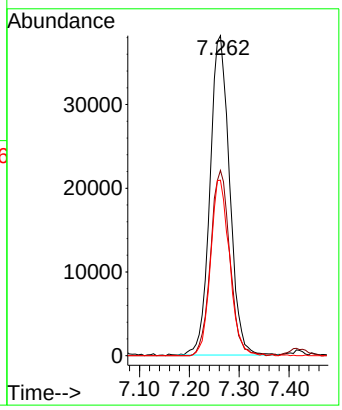




#29
Tetrahydrofuran
Concen: 229.194 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 42 Resp: 10408

Ion	Ratio	Lower	Upper
42	100		
72	57.2	42.6	63.8
71	53.3	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
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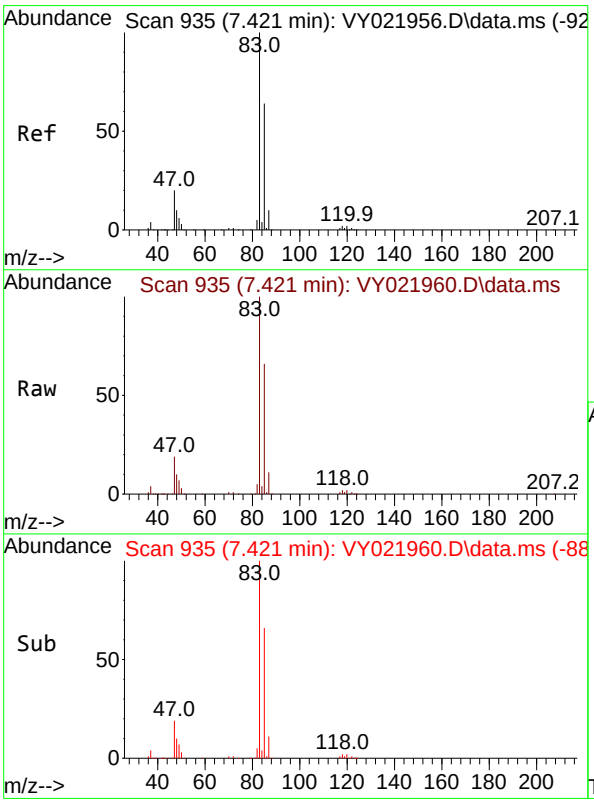
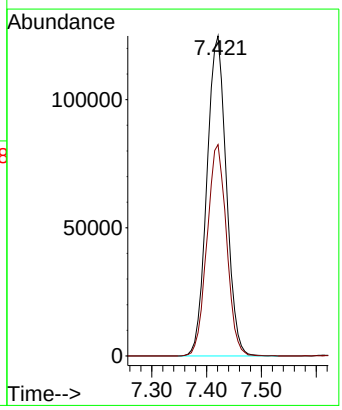
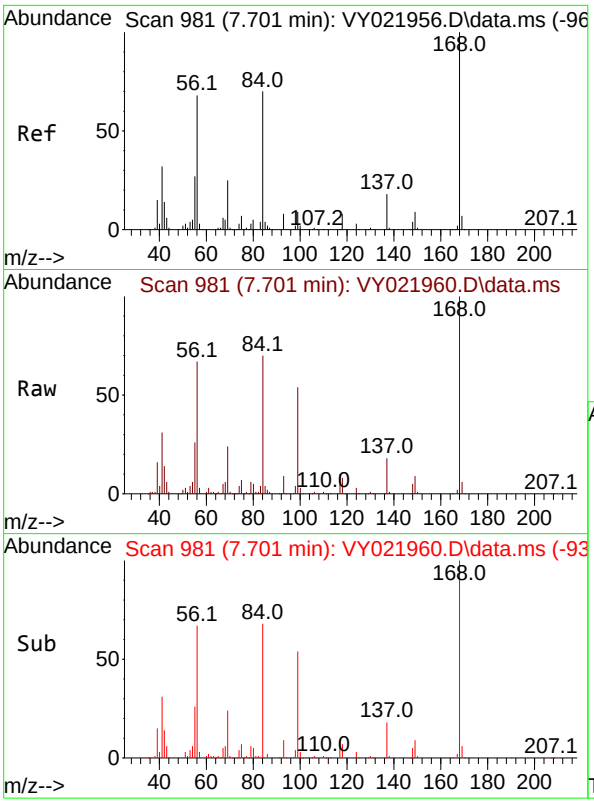


#30
Chloroform
Concen: 46.643 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 83 Resp: 306777

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.3	76.9

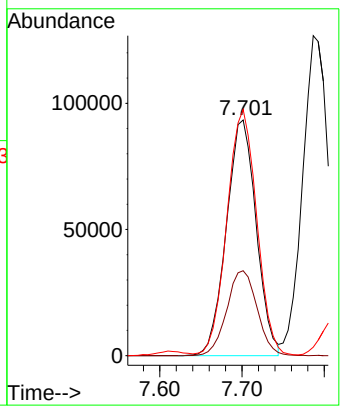




#31
Cyclohexane
Concen: 46.548 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 56 Resp: 23602

Ion	Ratio	Lower	Upper
56	100		
69	36.1	29.4	44.2
84	102.8	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
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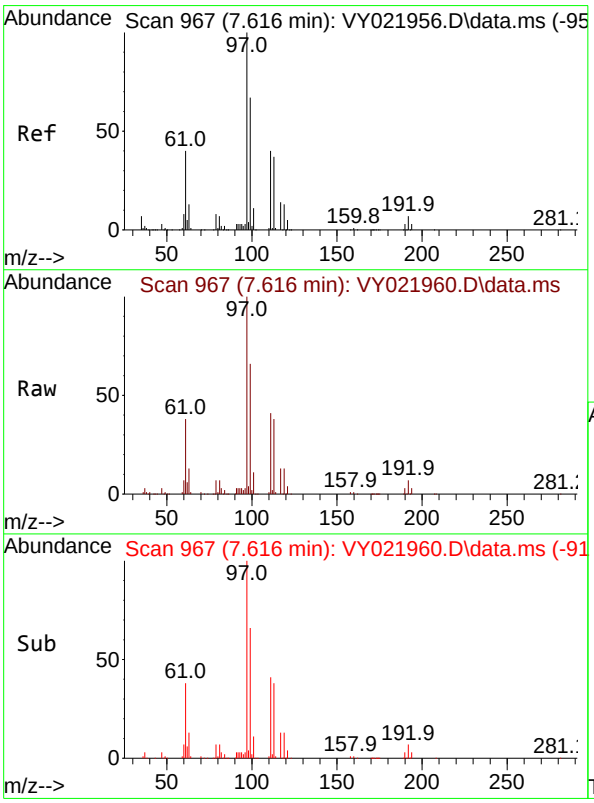
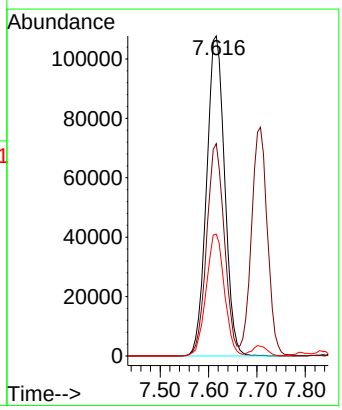
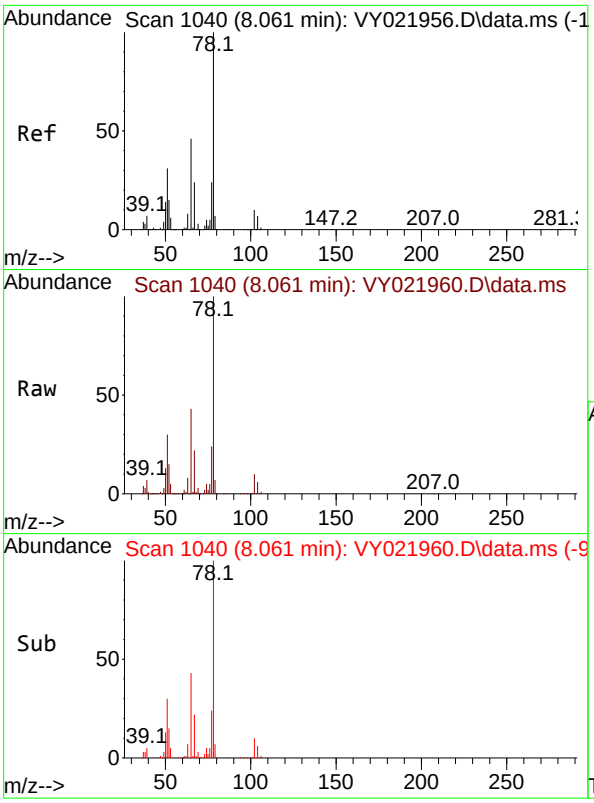


#32
1,1,1-Trichloroethane
Concen: 47.007 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 97 Resp: 279709

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.4	77.2
61	38.5	31.4	47.2

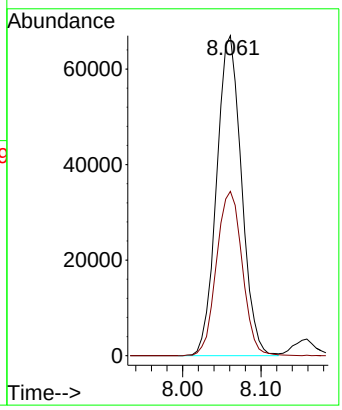




#33
1,2-Dichloroethane-d4
Concen: 48.224 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 65 Resp: 14792

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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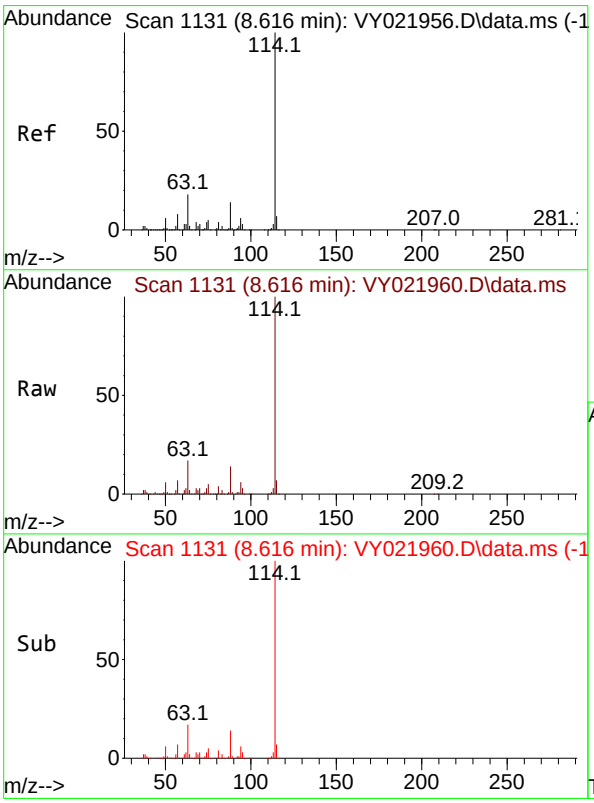
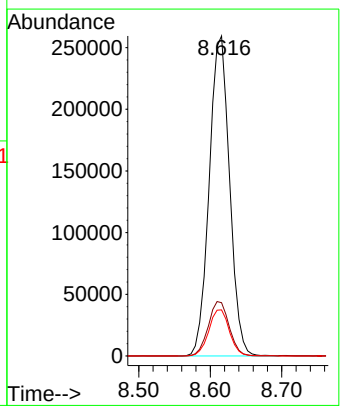
Supervised By :Mahesh Dadoda 04/23/2025

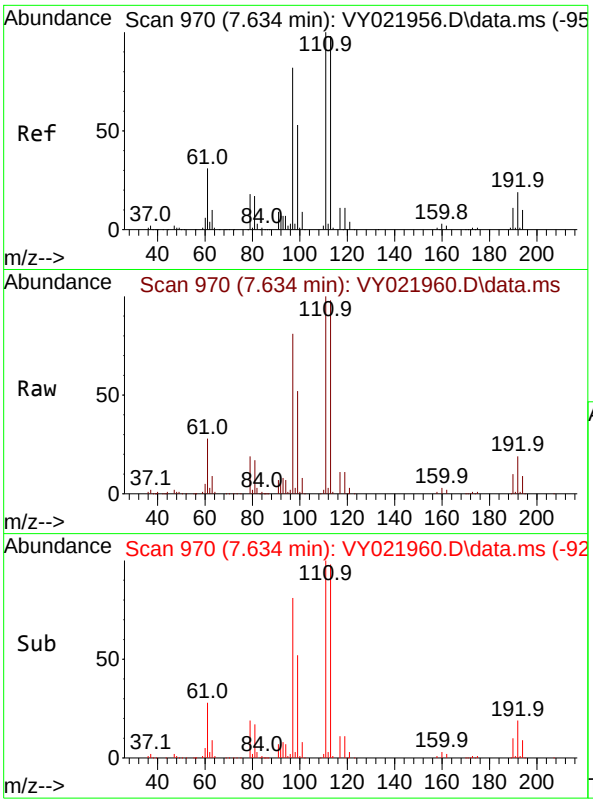


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:114 Resp: 512398

Ion	Ratio	Lower	Upper
114	100		
63	16.6	0.0	35.4
88	14.4	0.0	28.2

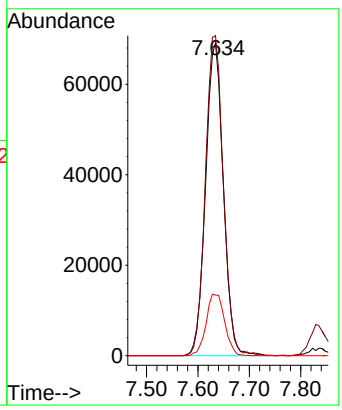




#35
Dibromofluoromethane
Concen: 48.989 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:113 Resp: 16583

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.8
192	20.5	15.6	23.4



Instrument :
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ClientSampleId :
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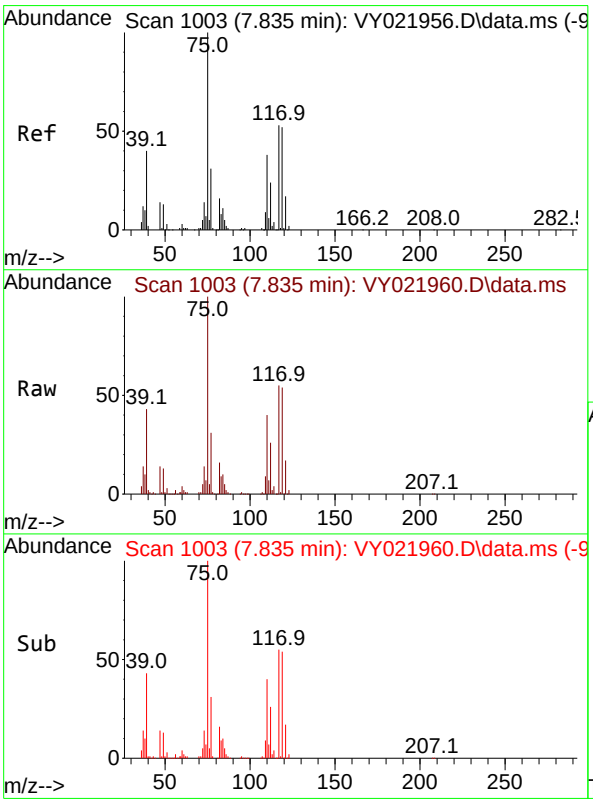
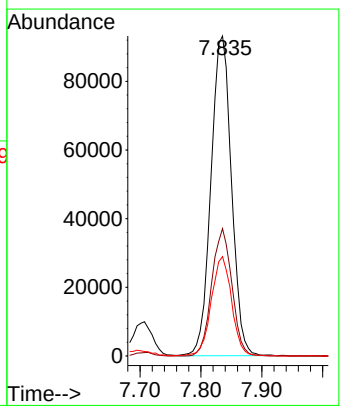
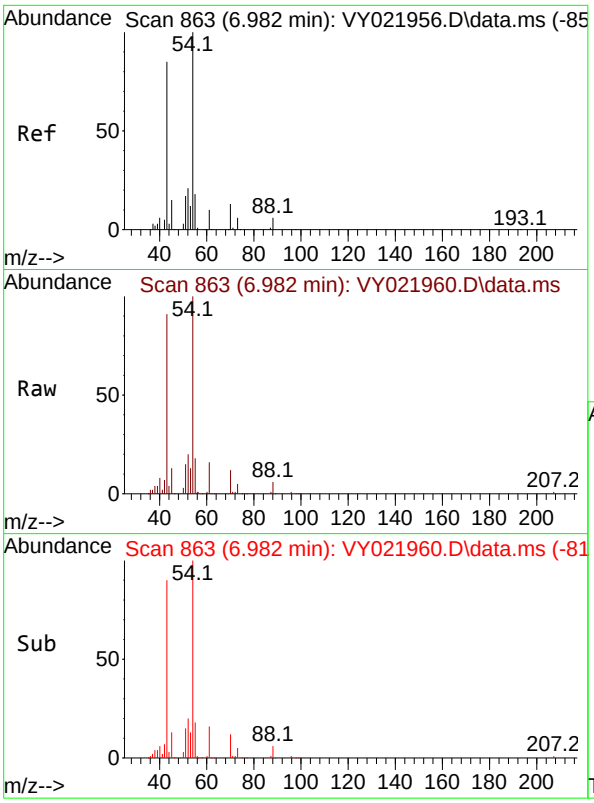


#36
1,1-Dichloropropene
Concen: 47.914 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 75 Resp: 217873

Ion	Ratio	Lower	Upper
75	100		
110	39.1	19.1	57.3
77	30.9	25.5	38.3





#37
Ethyl Acetate
Concen: 46.092 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 7527

Ion	Ratio	Lower	Upper
43	100		
61	16.0	13.8	20.6
70	12.2	9.2	13.8

Instrument :
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ClientSampleId :
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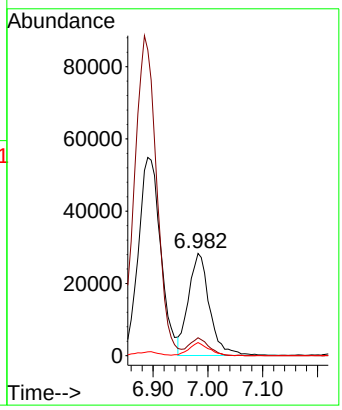
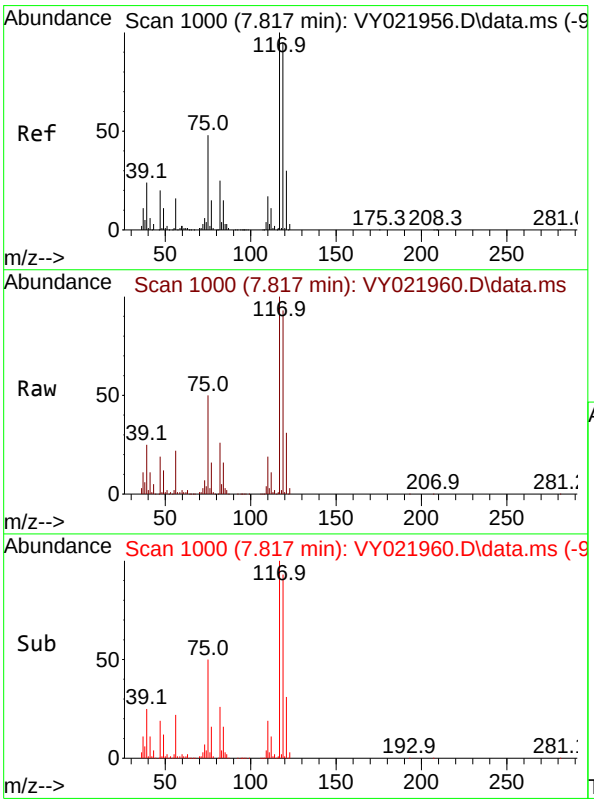
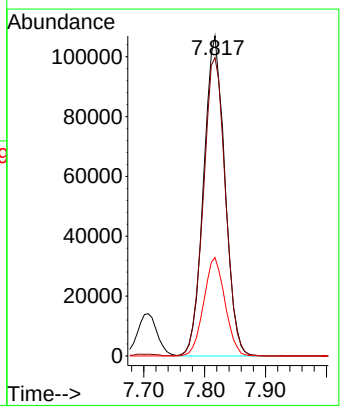


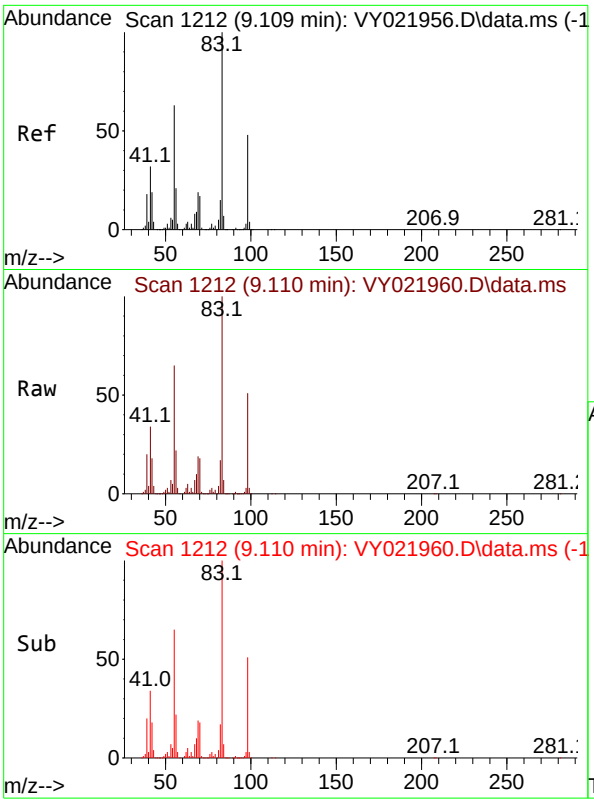


#38
Carbon Tetrachloride
Concen: 47.630 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:117 Resp: 258803

Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.2	114.4
121	30.8	24.0	36.0

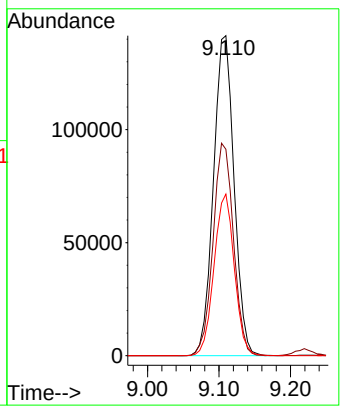




#39
Methylcyclohexane
Concen: 49.486 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 83 Resp: 28317

Ion	Ratio	Lower	Upper
83	100		
55	64.5	50.6	75.8
98	50.5	38.6	58.0



Instrument :
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ClientSampleId :
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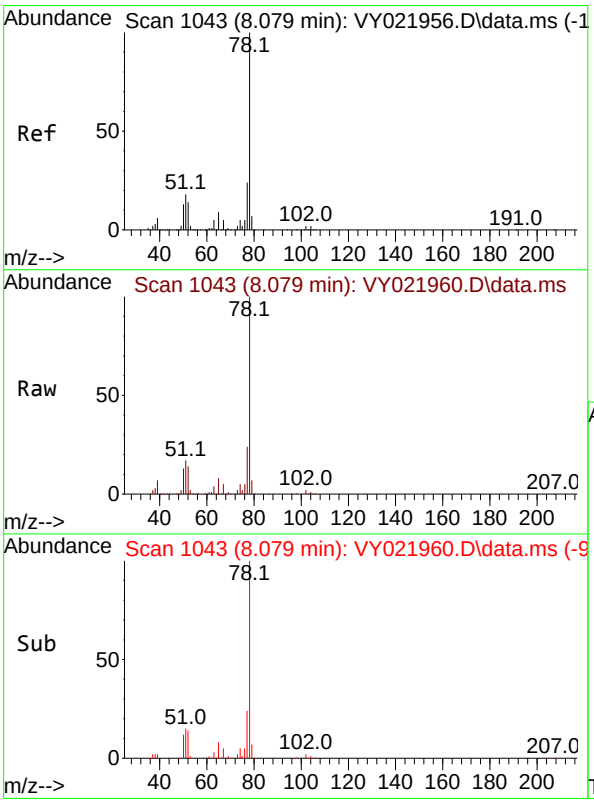
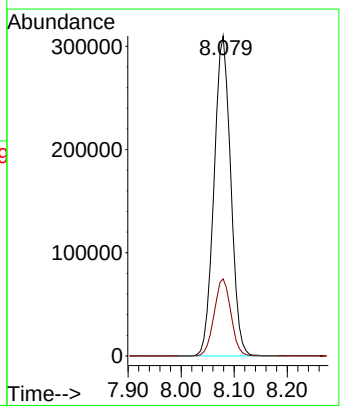
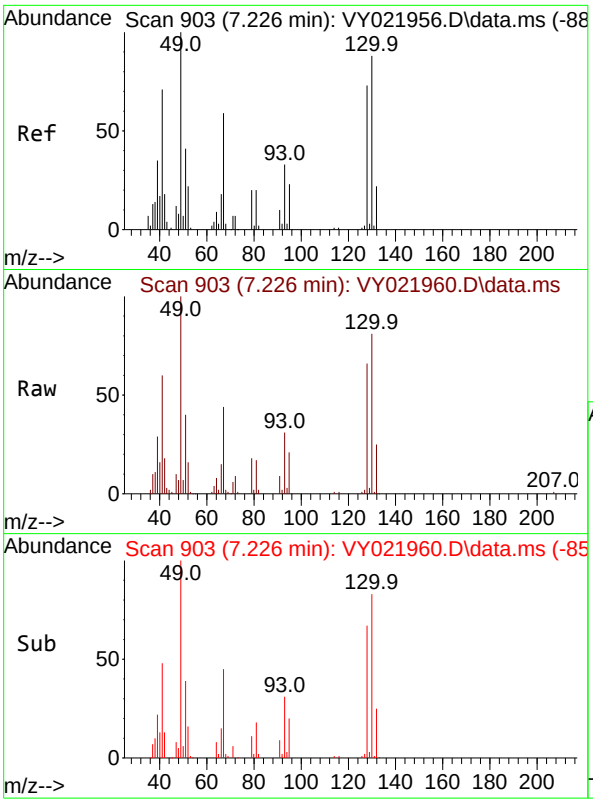


#40
Benzene
Concen: 47.692 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 78 Resp: 677917

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9

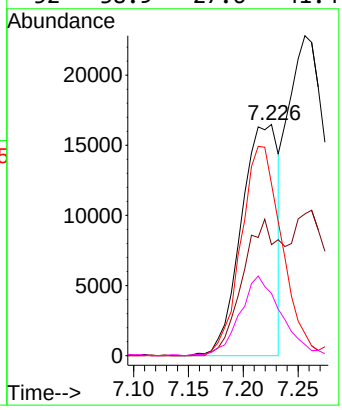




#41
Methacrylonitrile
Concen: 43.342 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 41 Resp: 3869

Ion	Ratio	Lower	Upper
41	100		
39	62.5	36.6	55.0
67	100.7	72.2	108.4
52	38.9	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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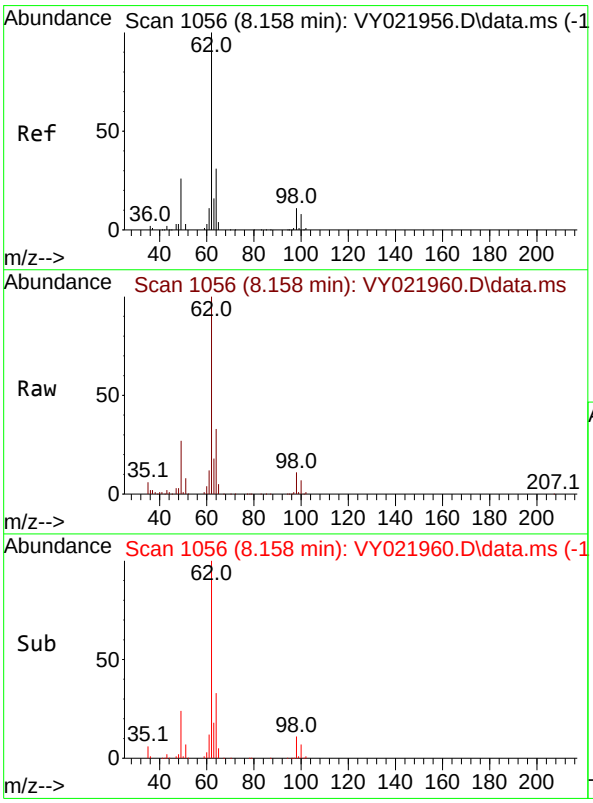
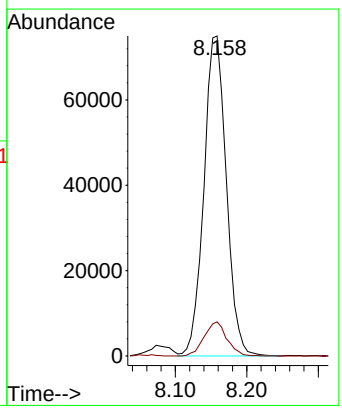
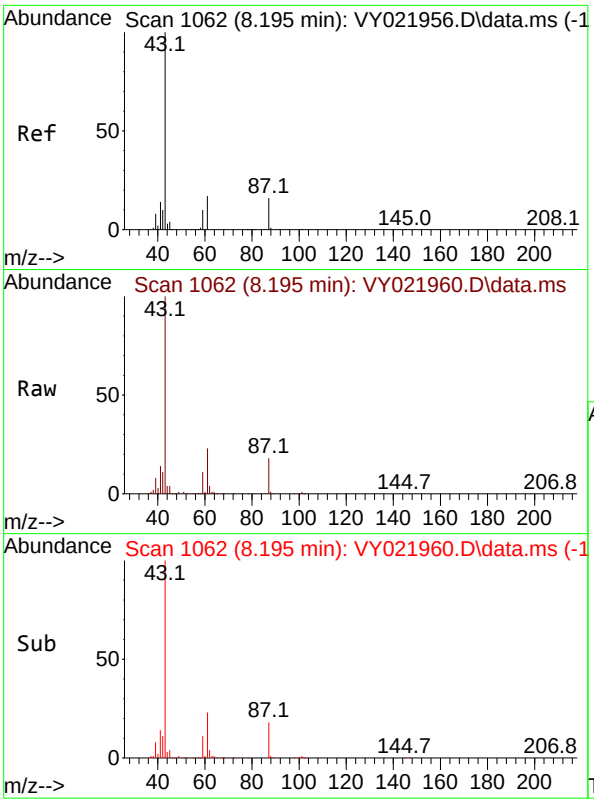


#42
1,2-Dichloroethane
Concen: 46.472 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 62 Resp: 163549

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	22.0

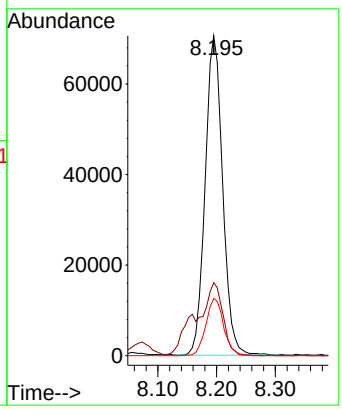




#43
Isopropyl Acetate
Concen: 46.545 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 14598

Ion	Ratio	Lower	Upper
43	100		
61	22.8	18.9	28.3
87	18.2	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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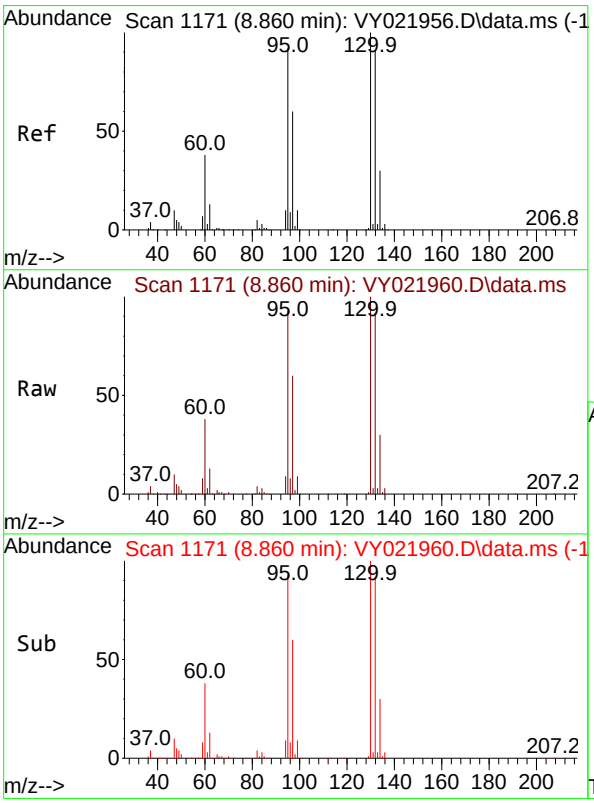
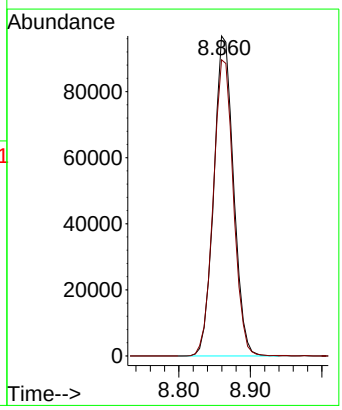
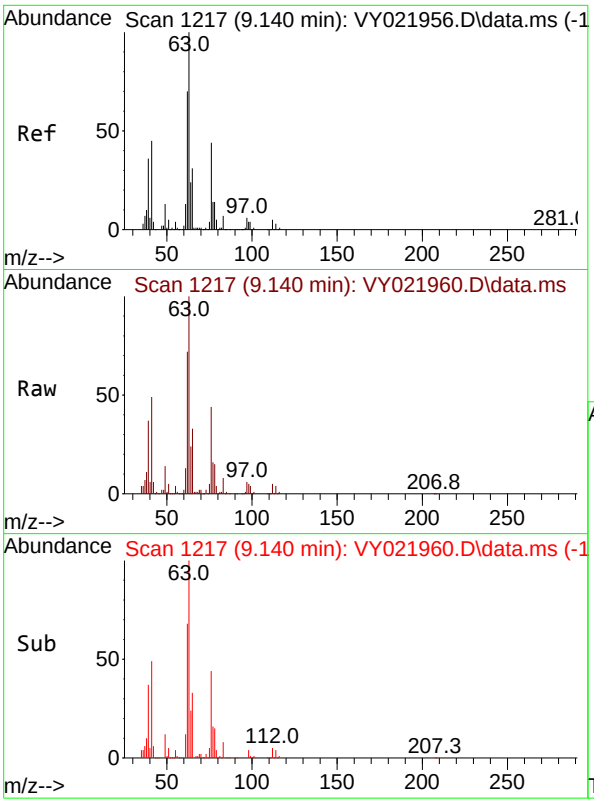


#44
Trichloroethene
Concen: 47.027 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:130 Resp: 185153

Ion	Ratio	Lower	Upper
130	100		
95	92.5	0.0	183.2

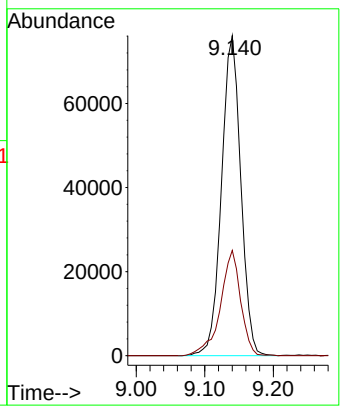




#45
1,2-Dichloropropane
Concen: 47.326 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 63 Resp: 14876

Ion	Ratio	Lower	Upper
63	100		
65	32.9	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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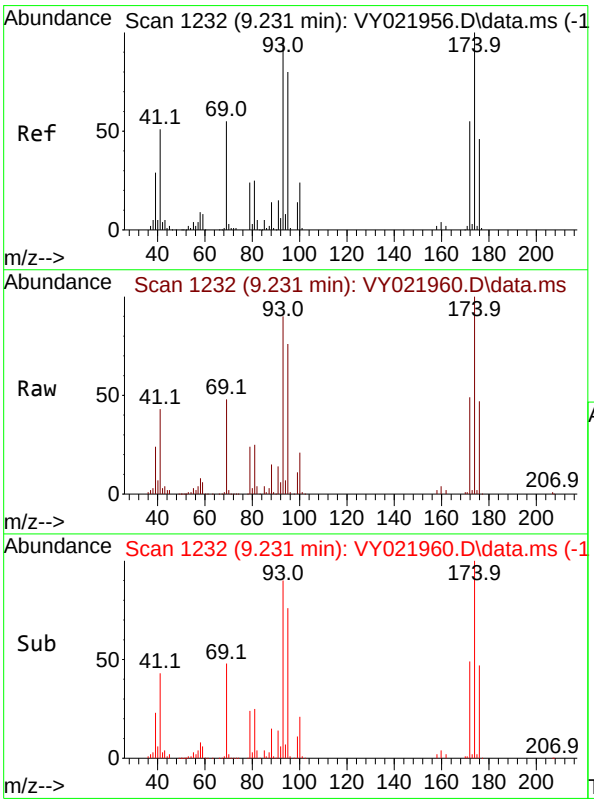
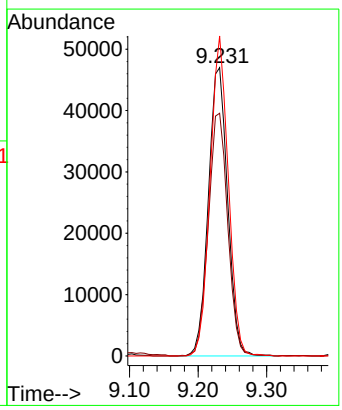
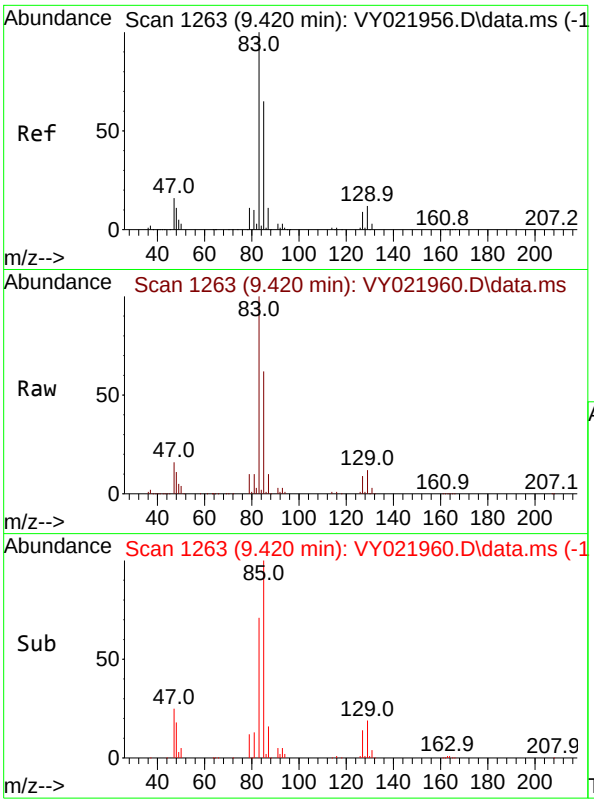


#46
Dibromomethane
Concen: 46.578 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 93 Resp: 91655

Ion	Ratio	Lower	Upper
93	100		
95	84.8	66.7	100.1
174	105.0	84.6	127.0

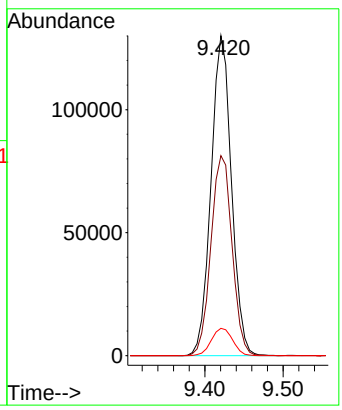




#47
Bromodichloromethane
Concen: 47.955 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 83 Resp: 23573

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.8
127	8.5	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
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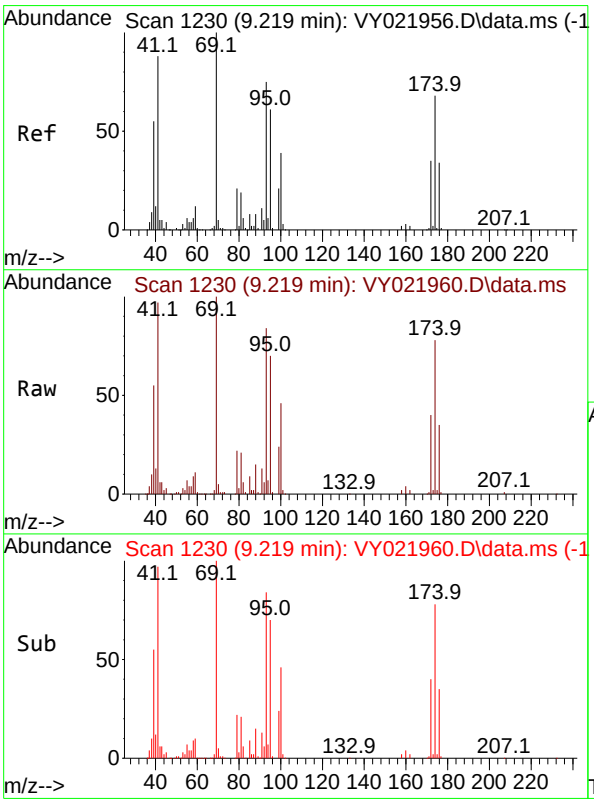
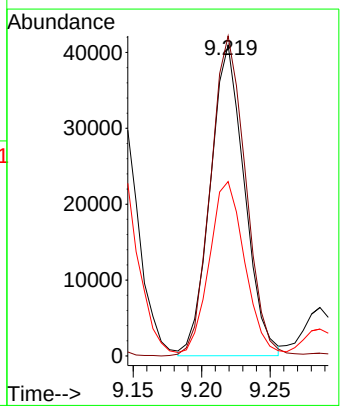
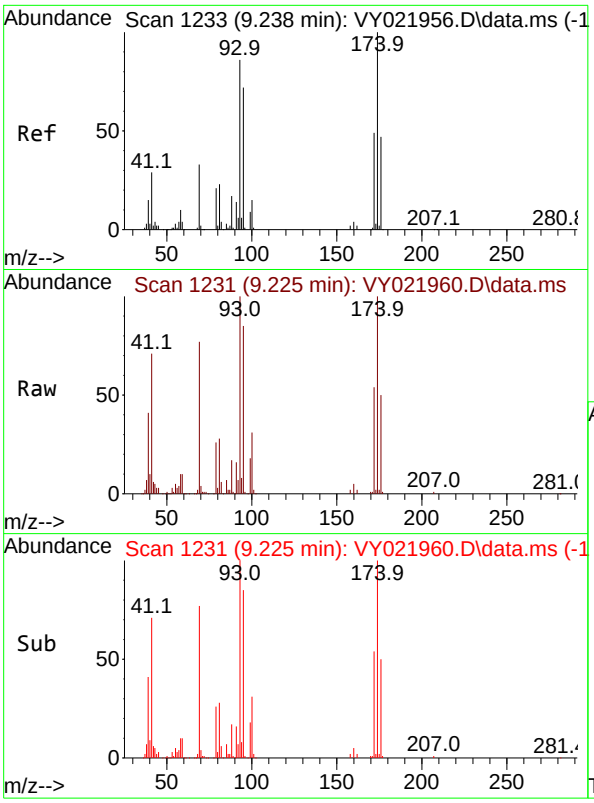


#48
Methyl methacrylate
Concen: 49.090 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 41 Resp: 71174

Ion	Ratio	Lower	Upper
41	100		
69	105.2	85.5	128.3
39	55.9	46.2	69.4

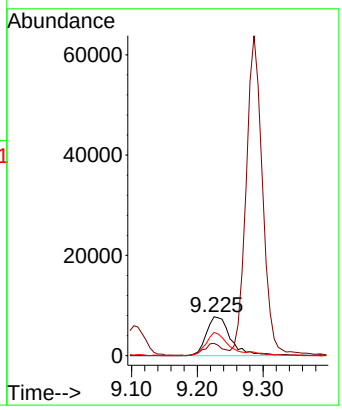




#49
1,4-Dioxane
Concen: 951.409 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 88 Resp: 1995

Ion	Ratio	Lower	Upper
88	100		
43	25.4	21.3	31.9
58	53.4	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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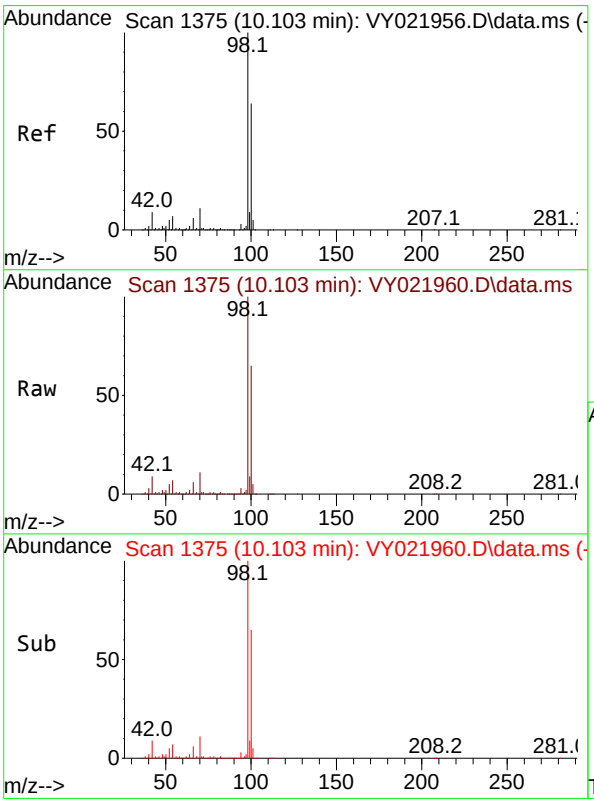
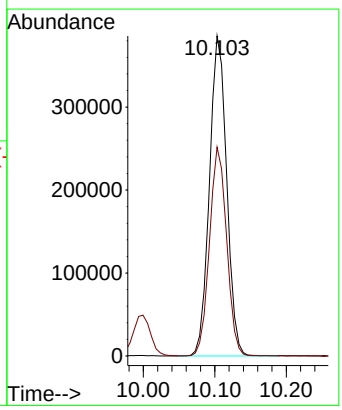
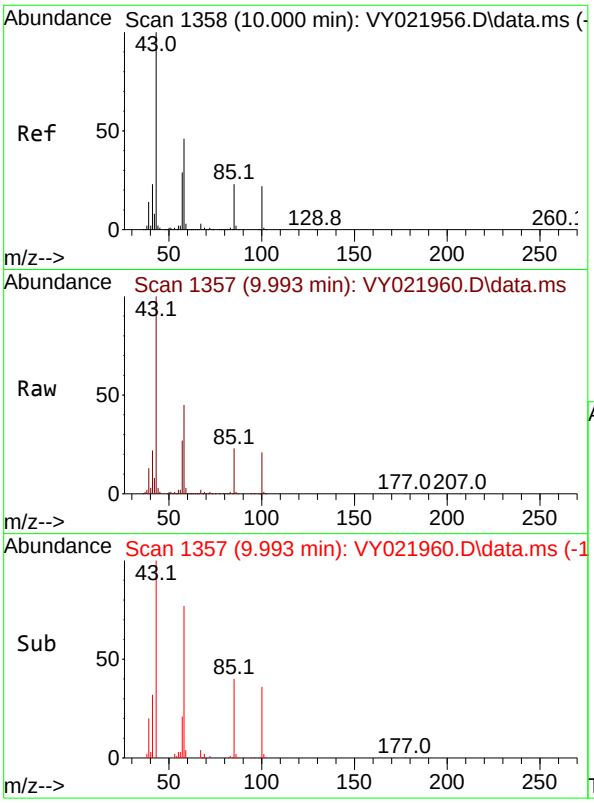


#50
Toluene-d8
Concen: 50.539 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 98 Resp: 644989

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.6	77.4

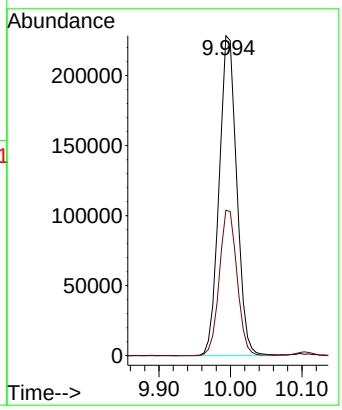




#51
4-Methyl-2-Pentanone
Concen: 237.972 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 39124

Ion	Ratio	Lower	Upper
43	100		
58	45.8	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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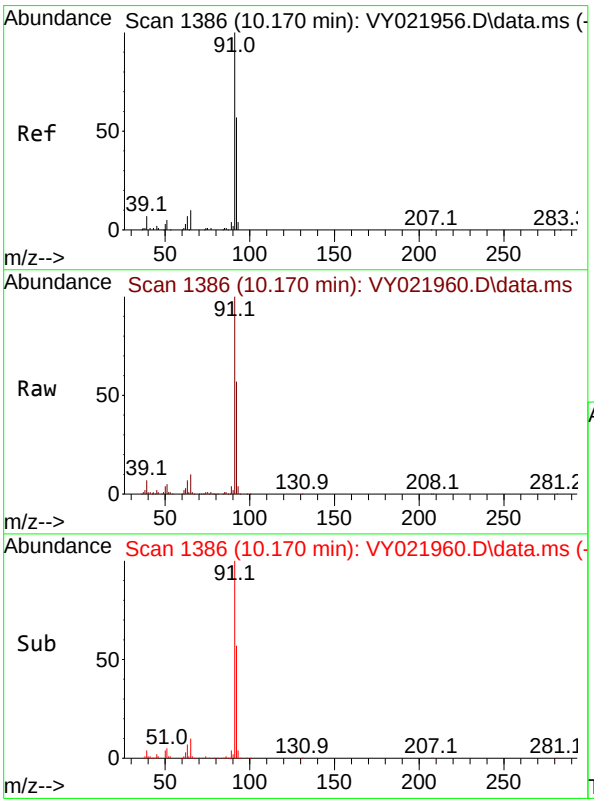
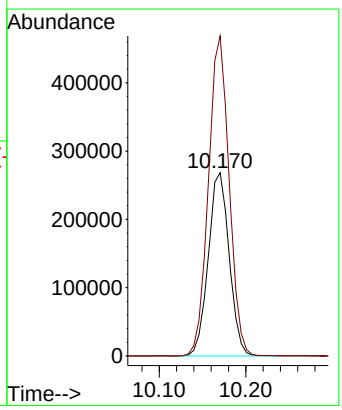
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

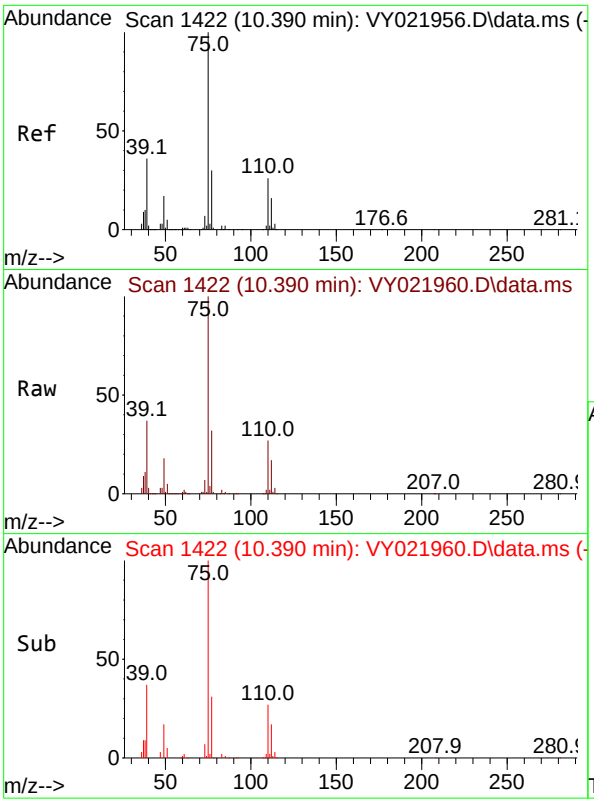


#52
Toluene
Concen: 48.774 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 92 Resp: 448774

Ion	Ratio	Lower	Upper
92	100		
91	173.1	138.6	207.8

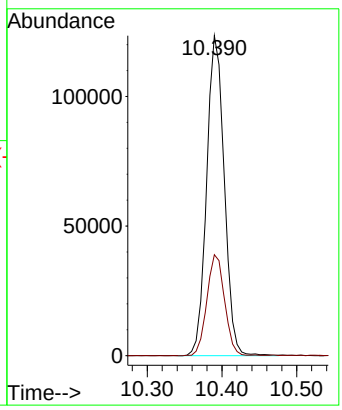




#53
t-1,3-Dichloropropene
Concen: 47.893 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 75 Resp: 20193

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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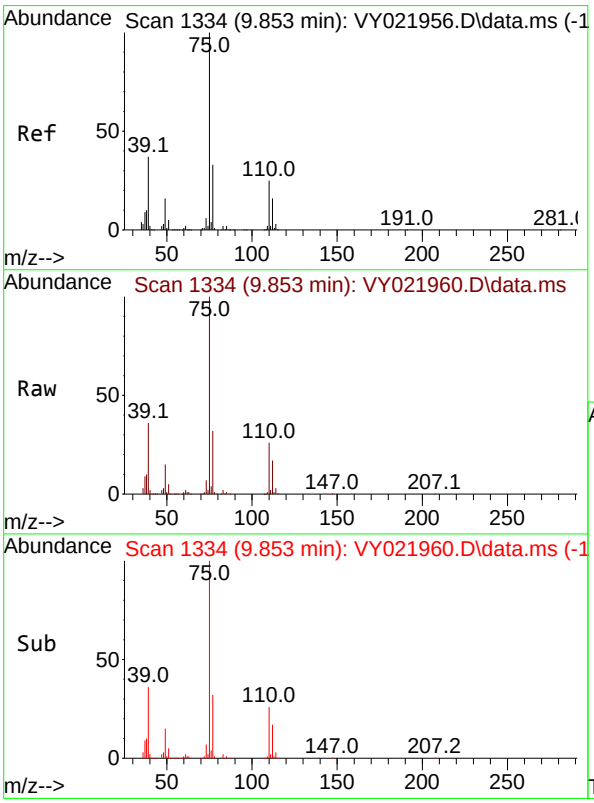
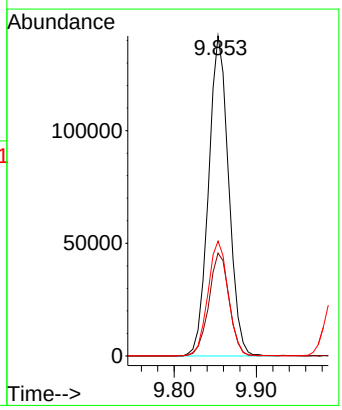
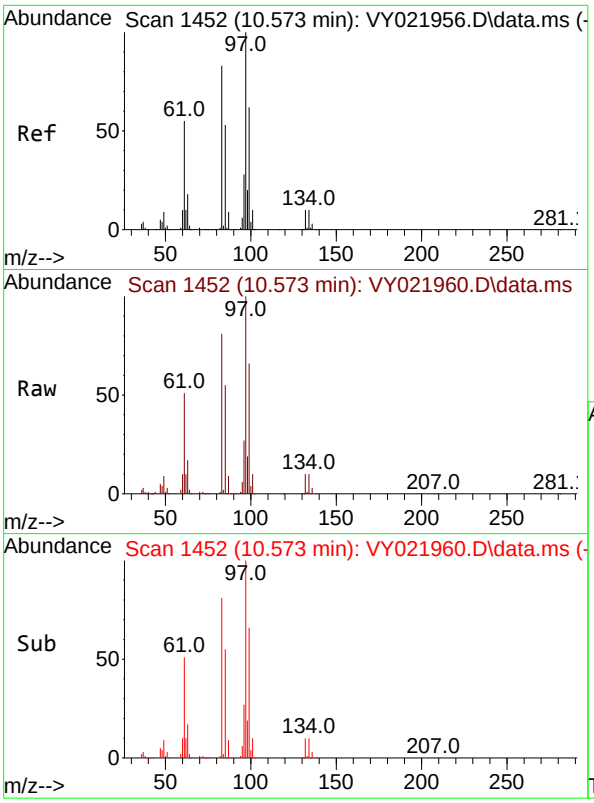


#54
cis-1,3-Dichloropropene
Concen: 48.122 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 75 Resp: 241197

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.6	40.0
39	35.9	29.6	44.4

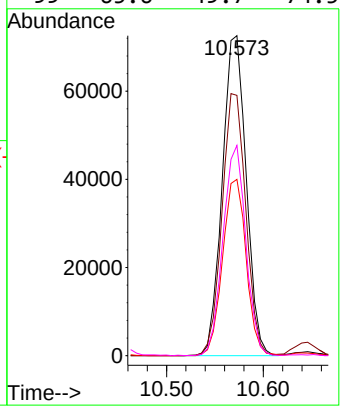




#55
1,1,2-Trichloroethane
Concen: 47.403 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 97 Resp: 12459

Ion	Ratio	Lower	Upper
97	100		
83	81.4	66.7	100.1
85	55.1	42.6	64.0
99	65.6	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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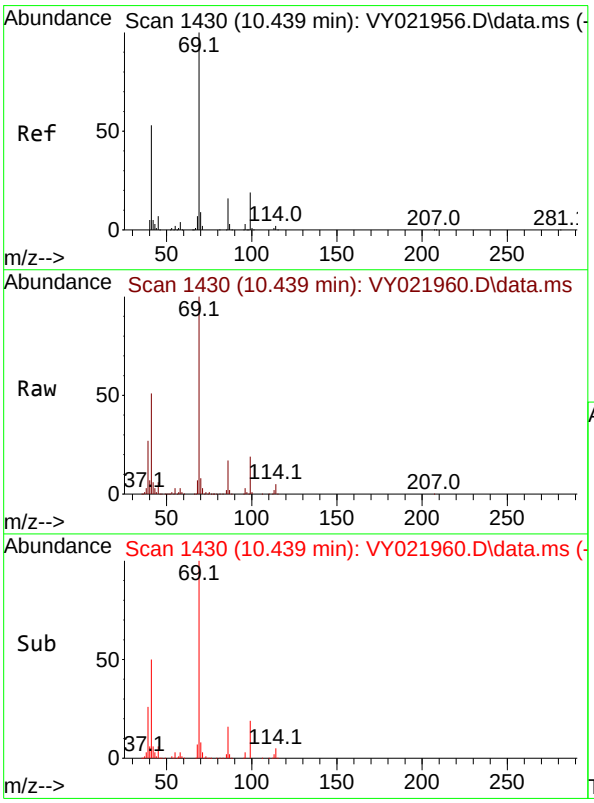
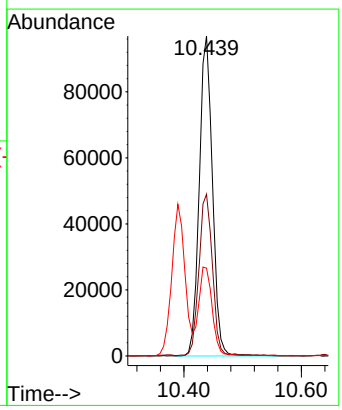
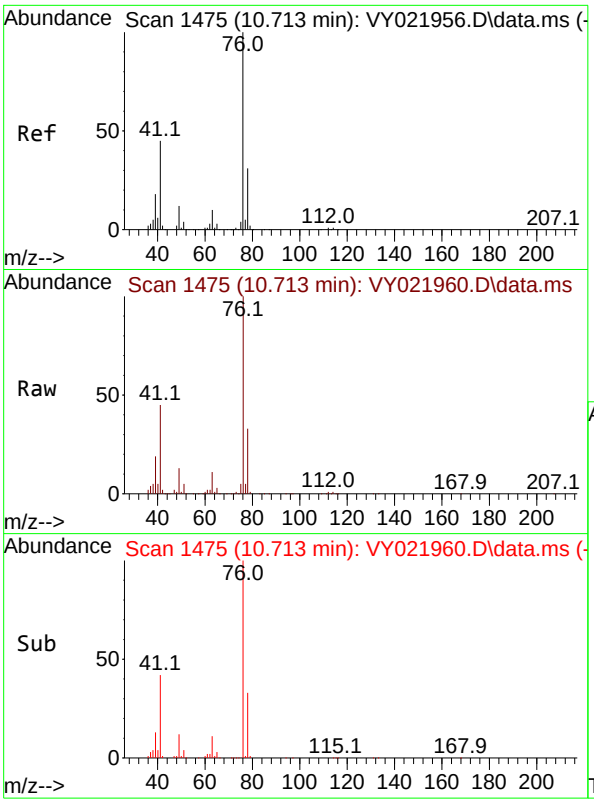


#56
Ethyl methacrylate
Concen: 50.188 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 69 Resp: 150855

Ion	Ratio	Lower	Upper
69	100		
41	51.3	40.7	61.1
39	28.3	23.3	34.9

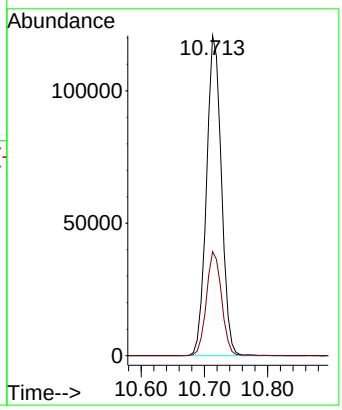




#57
1,3-Dichloropropane
Concen: 47.024 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 76 Resp: 19814

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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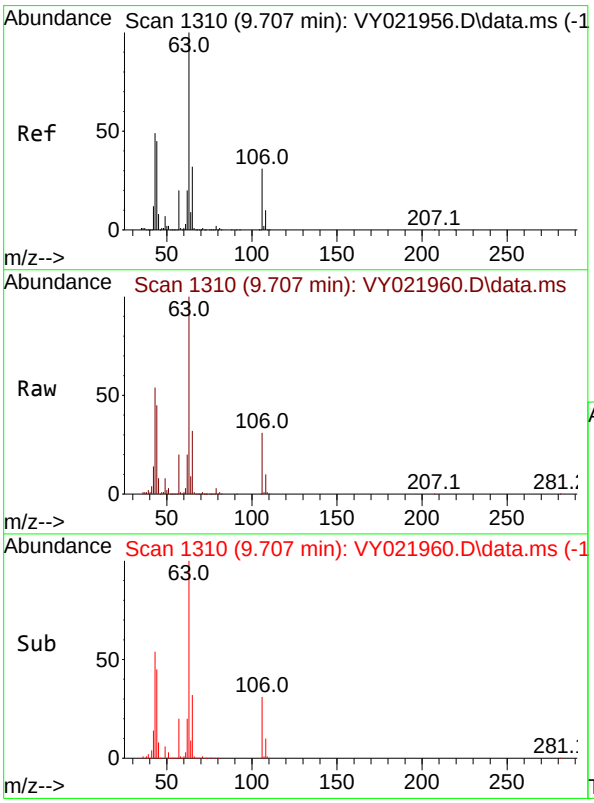
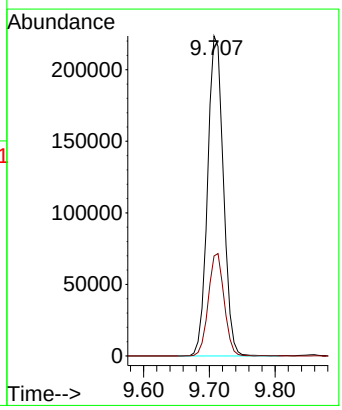
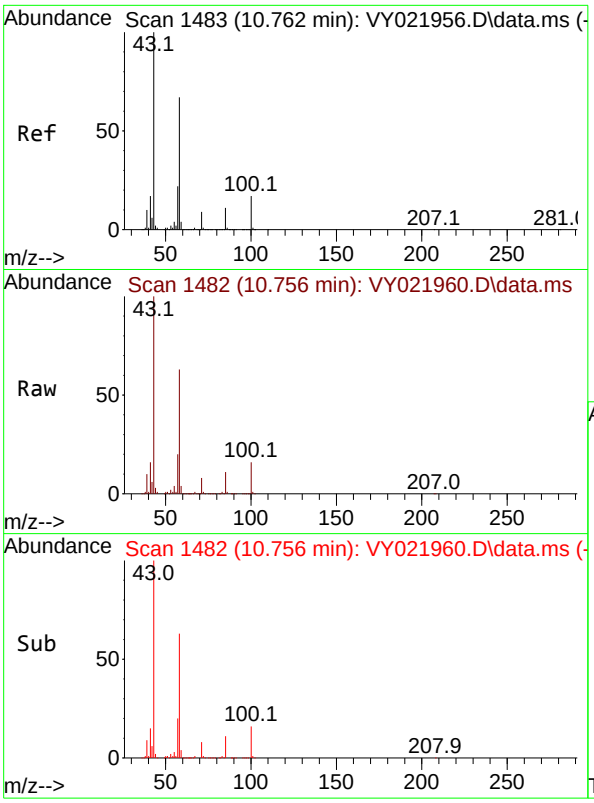


#58
2-Chloroethyl Vinyl ether
Concen: 253.928 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 63 Resp: 373183

Ion	Ratio	Lower	Upper
63	100		
106	32.0	25.3	37.9

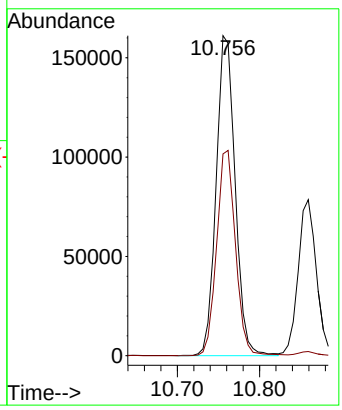




#59
2-Hexanone
Concen: 238.340 ug/l
RT: 10.756 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 25845

Ion	Ratio	Lower	Upper
43	100		
58	63.9	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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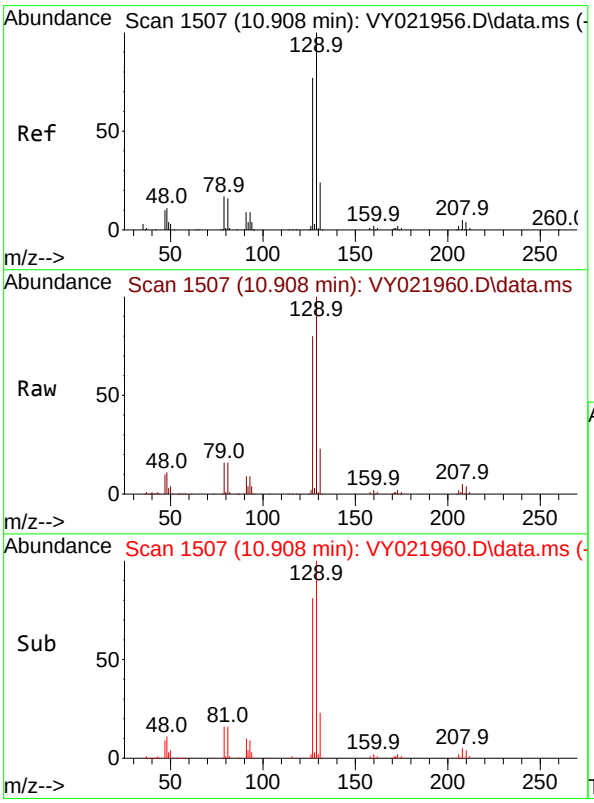
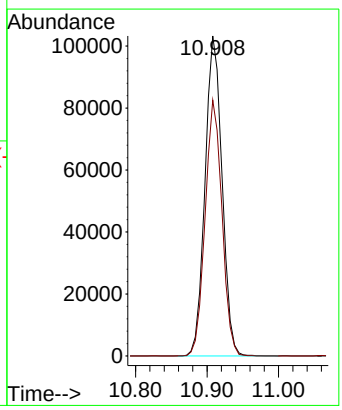
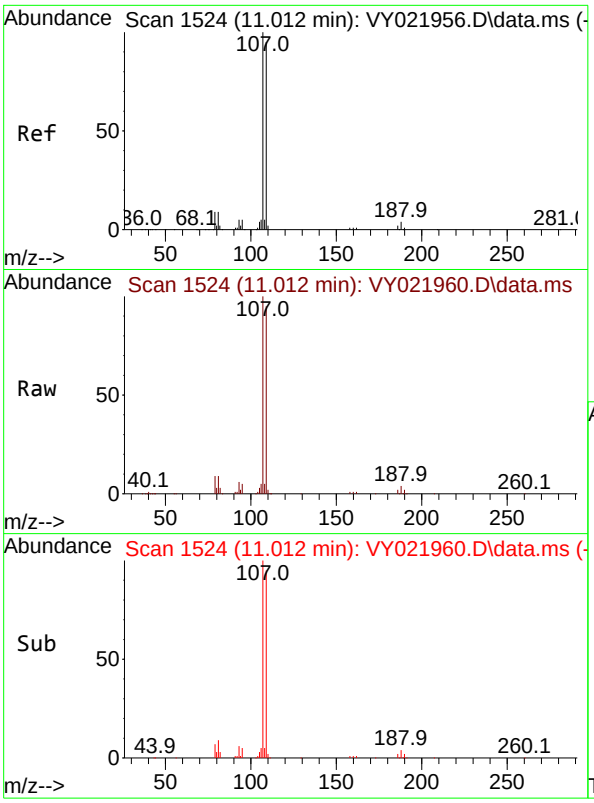


#60
Dibromochloromethane
Concen: 46.882 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:129 Resp: 170608

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.5	115.3

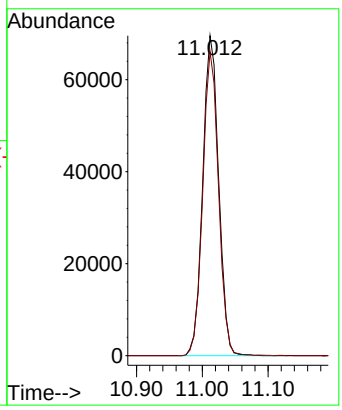




#61
1,2-Dibromoethane
Concen: 47.188 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:107 Resp: 11709

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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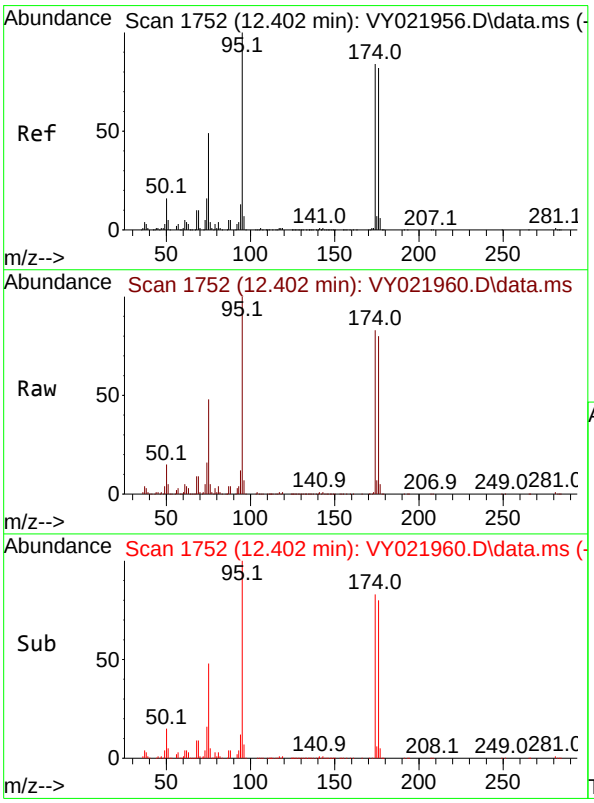
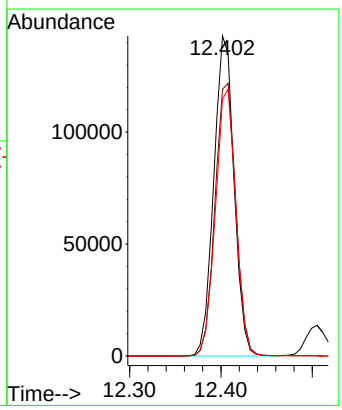
Supervised By :Mahesh Dadoda 04/23/2025

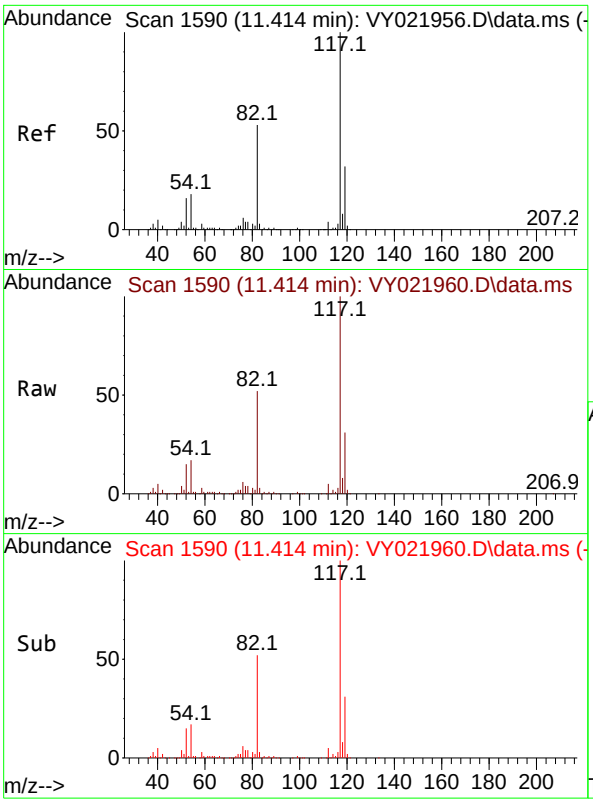


#62
4-Bromofluorobenzene
Concen: 51.198 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 95 Resp: 219958

Ion	Ratio	Lower	Upper
95	100		
174	87.8	0.0	179.0
176	84.4	0.0	171.8

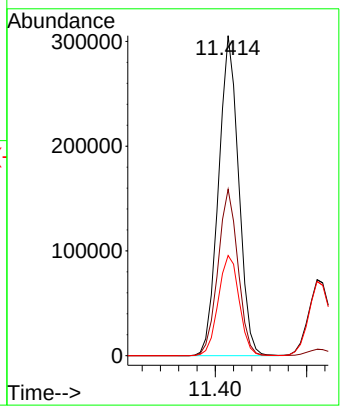




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:117 Resp: 46709

Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.1	63.1
119	31.3	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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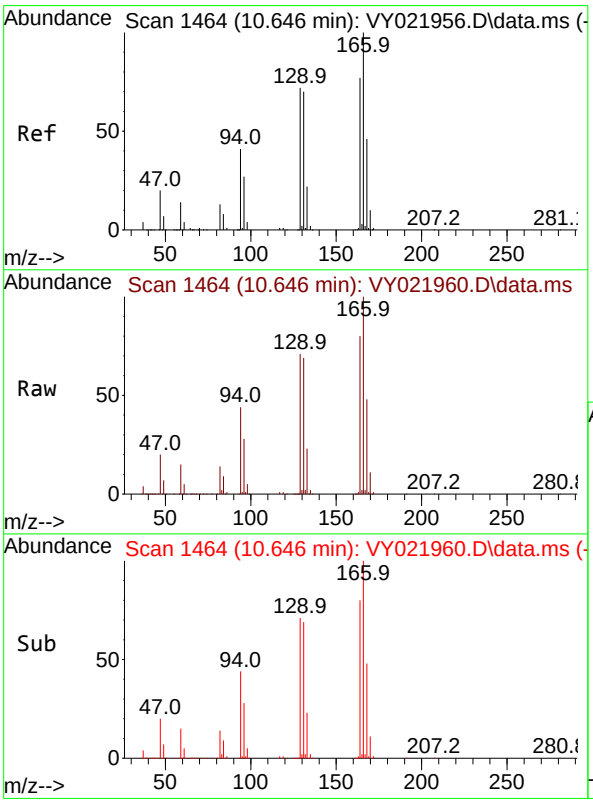
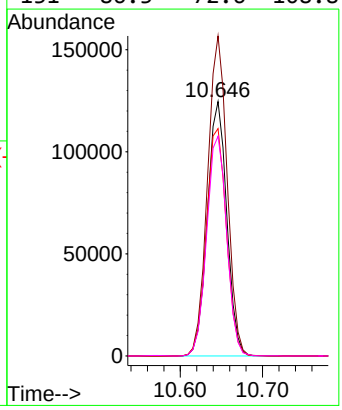
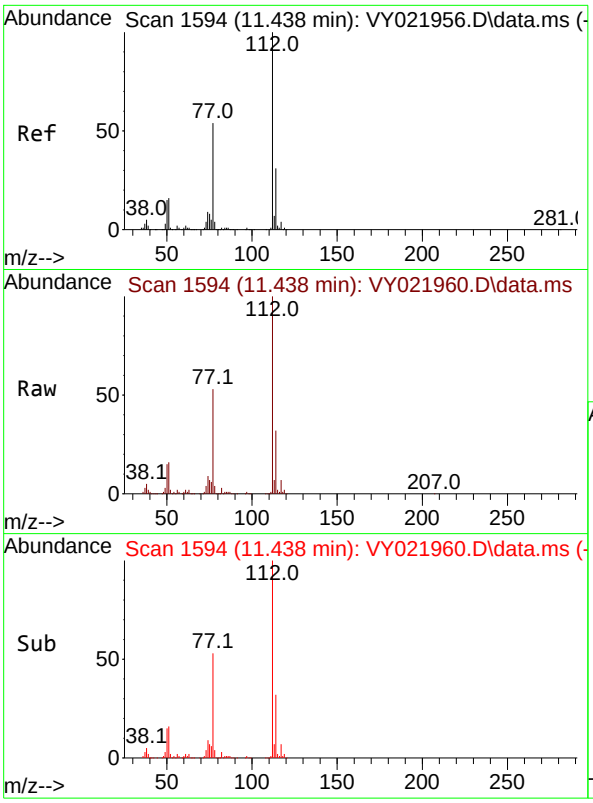


#64
Tetrachloroethene
Concen: 46.550 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:164 Resp: 205118

Ion	Ratio	Lower	Upper
164	100		
166	125.8	103.6	155.4
129	89.4	74.2	111.4
131	86.3	72.6	108.8

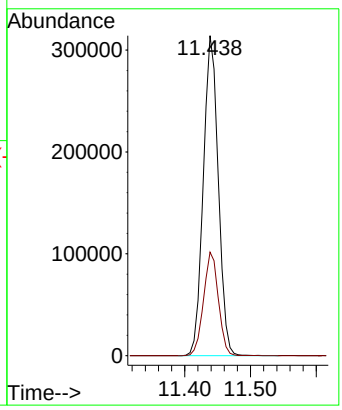




#65
Chlorobenzene
Concen: 47.734 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:112 Resp: 49860

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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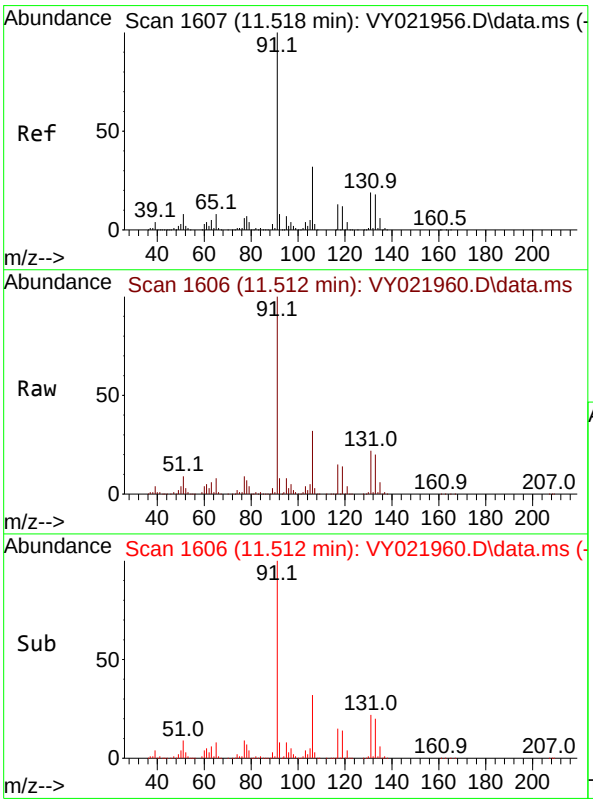
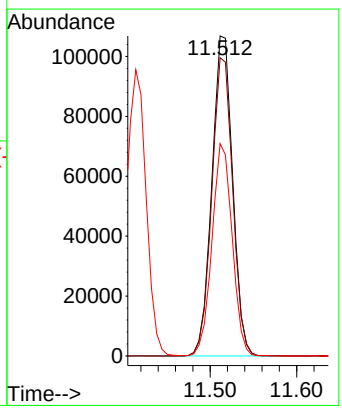
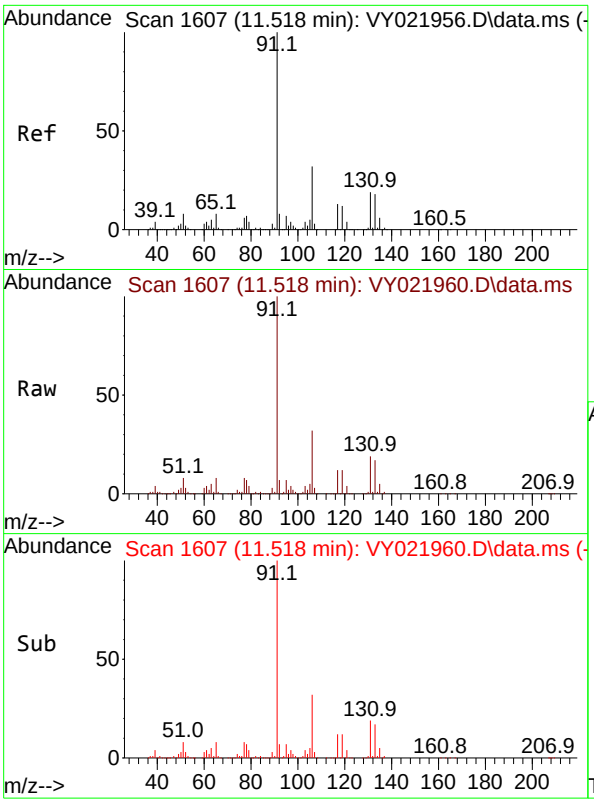


#66
1,1,1,2-Tetrachloroethane
Concen: 48.308 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:131 Resp: 177647

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.8	143.3
119	64.7	32.4	97.0

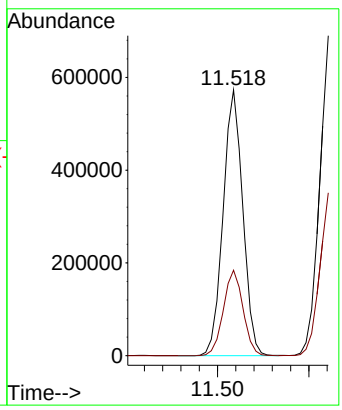




#67
Ethyl Benzene
Concen: 50.142 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 91 Resp: 85677

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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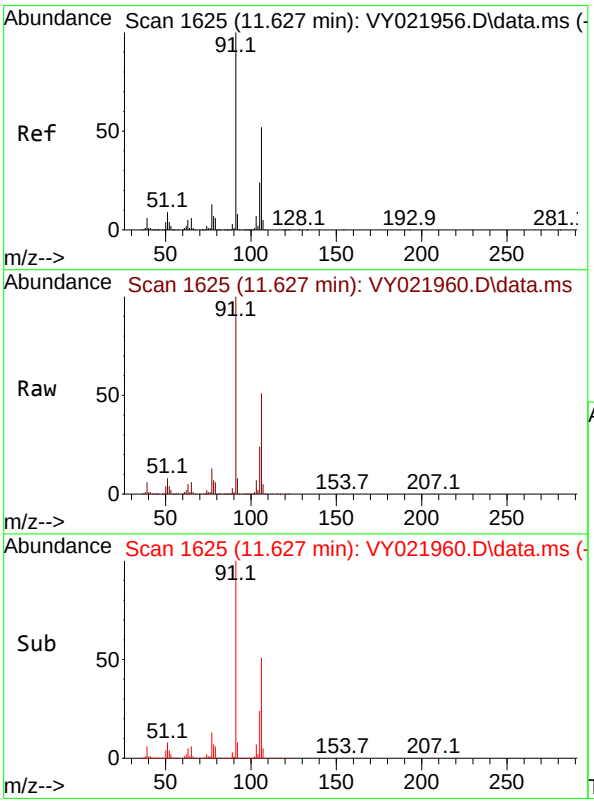
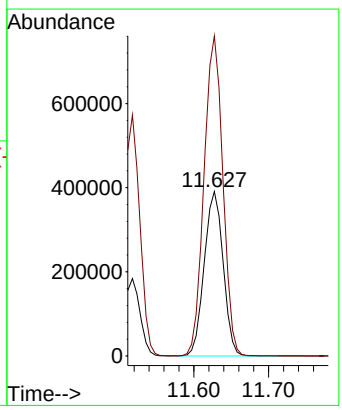
Supervised By :Mahesh Dadoda 04/23/2025

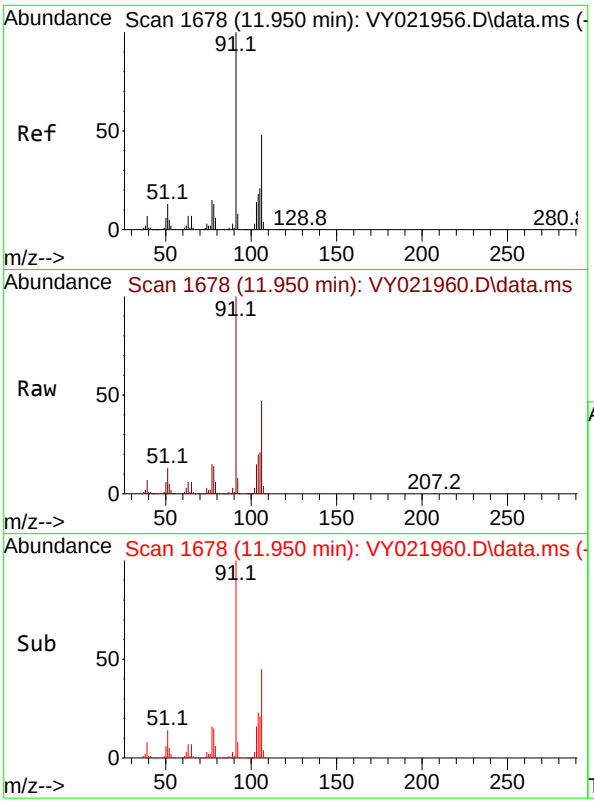


#68
m/p-Xylenes
Concen: 101.181 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:106 Resp: 687961

Ion	Ratio	Lower	Upper
106	100		
91	193.7	156.2	234.2

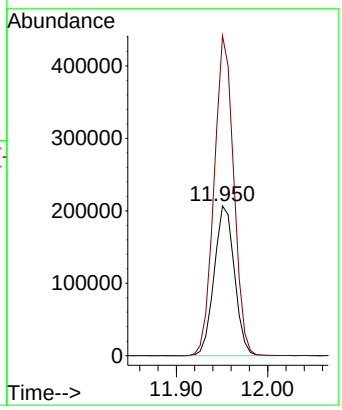




#69
o-Xylene
Concen: 50.949 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:106 Resp: 31929

Ion	Ratio	Lower	Upper
106	100		
91	206.7	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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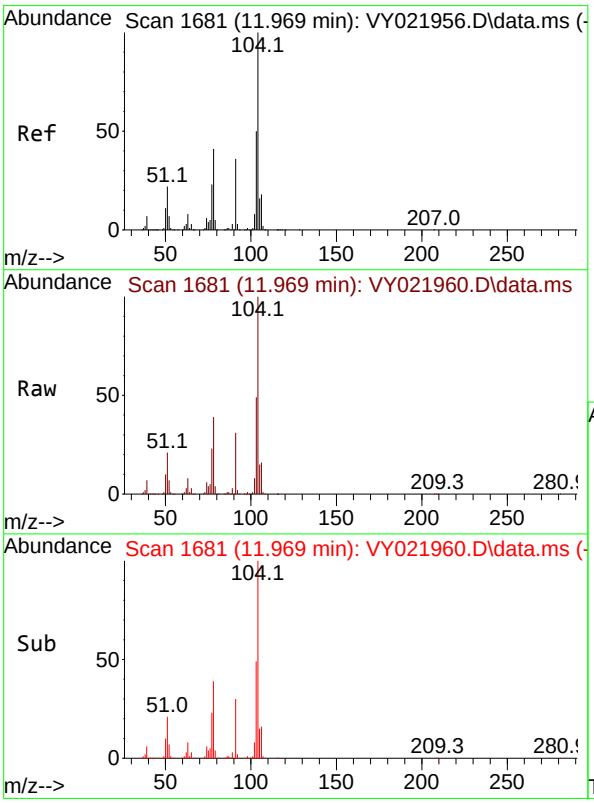
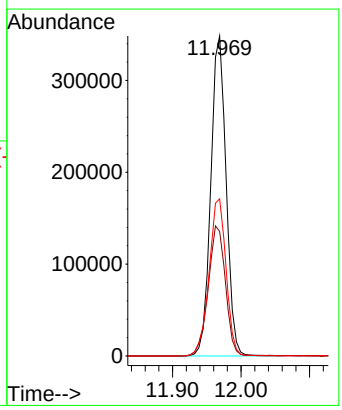
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

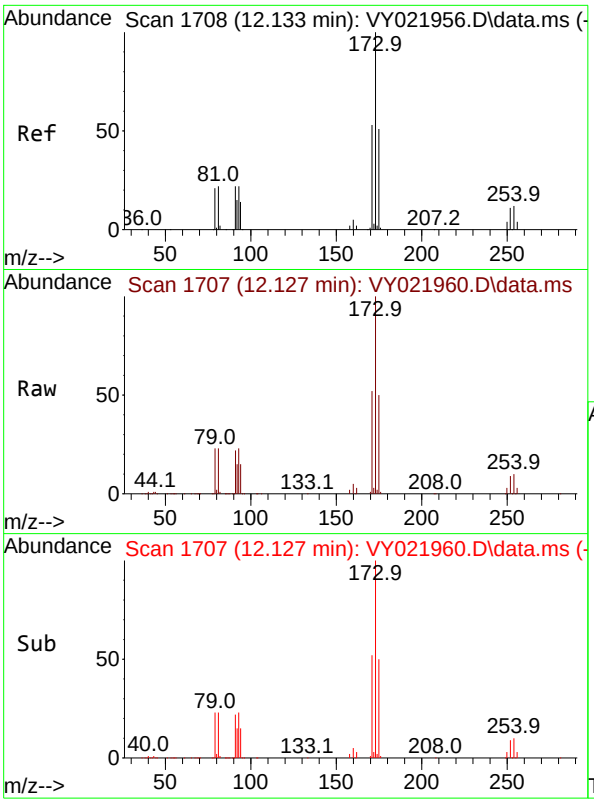


#70
Styrene
Concen: 51.513 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:104 Resp: 542034

Ion	Ratio	Lower	Upper
104	100		
78	45.5	36.6	54.8
103	54.4	43.8	65.8

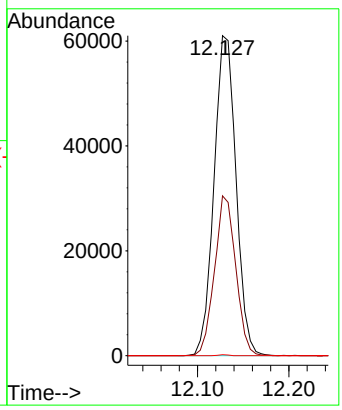




#71
Bromoform
Concen: 47.821 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:173 Resp: 10224

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.3	72.8
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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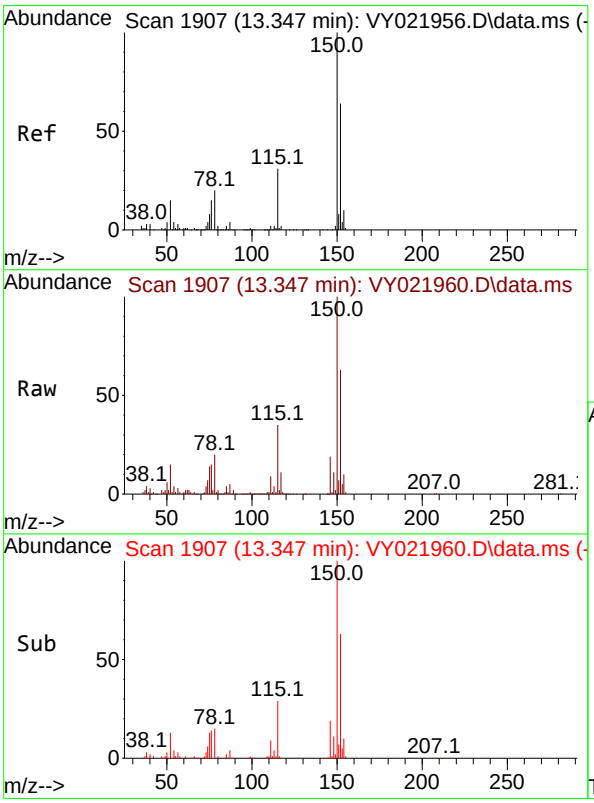
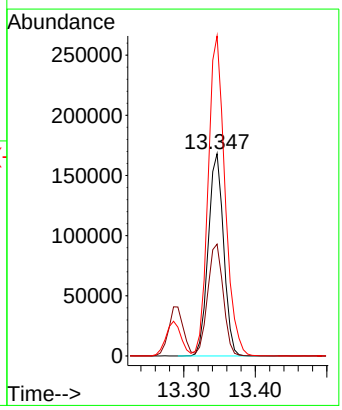
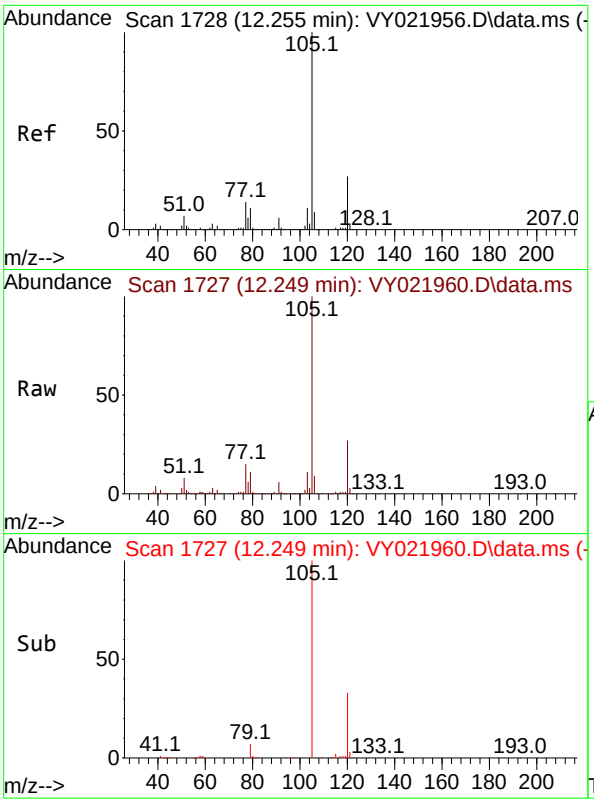


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:152 Resp: 250602

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.0	84.0
150	173.6	0.0	345.6

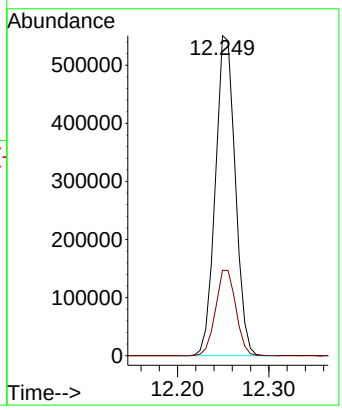




#73
Isopropylbenzene
Concen: 49.765 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:105 Resp: 83321

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.5	40.5



Instrument :
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ClientSampleId :
ICVVY042225

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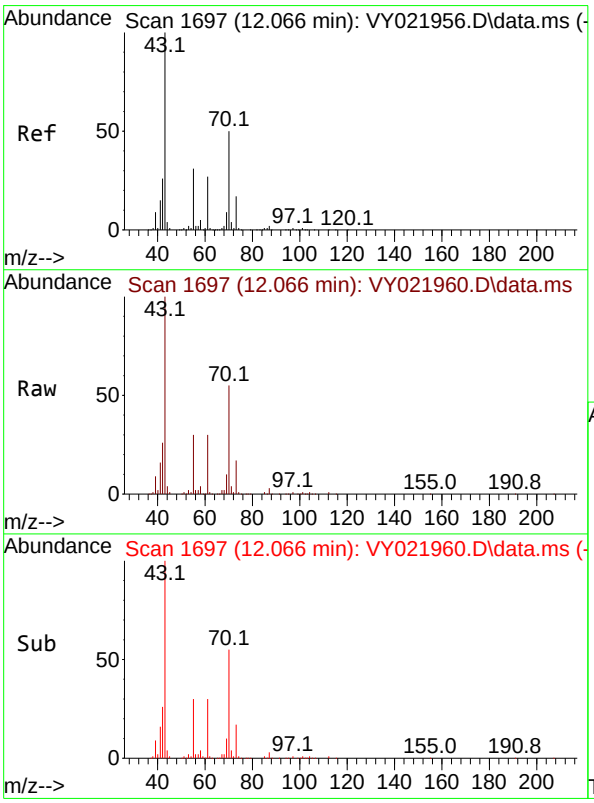
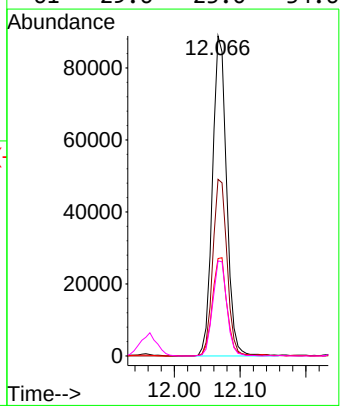
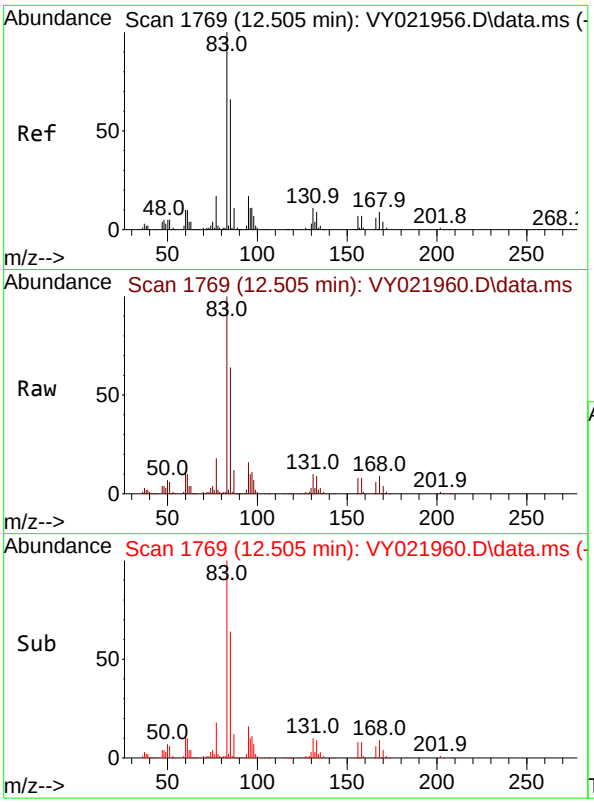


#74
N-amyl acetate
Concen: 46.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 43 Resp: 133081

Ion	Ratio	Lower	Upper
43	100		
70	55.2	43.2	64.8
55	31.6	25.7	38.5
61	29.6	23.0	34.6





#75
1,1,2,2-Tetrachloroethane
Concen: 46.078 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 83 Resp: 13007

Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.5	16.4
85	64.4	32.3	96.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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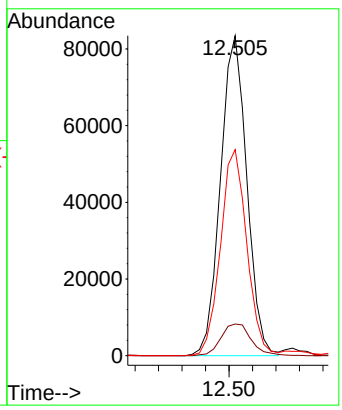
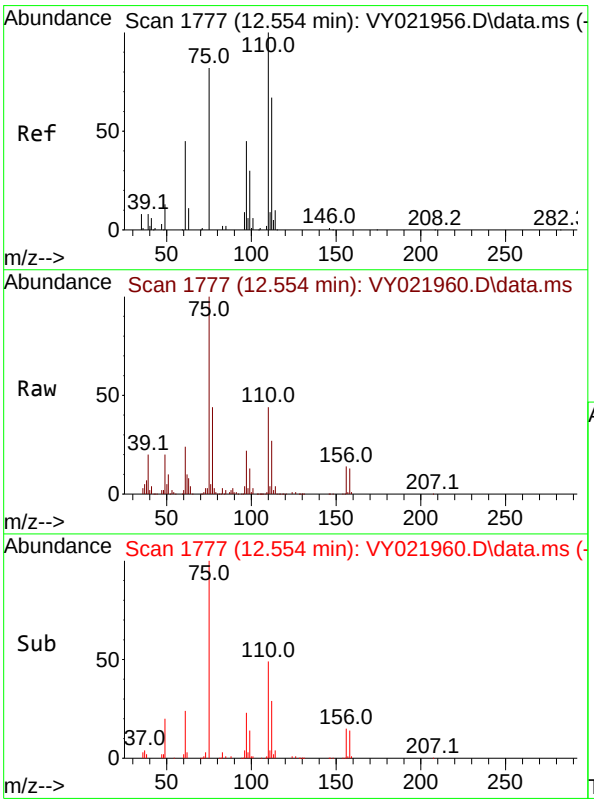
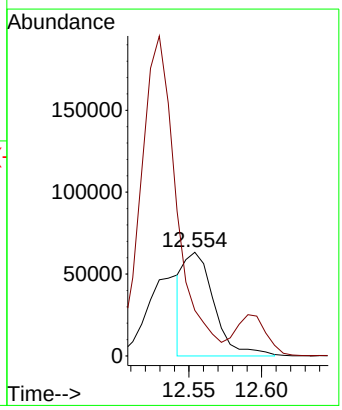


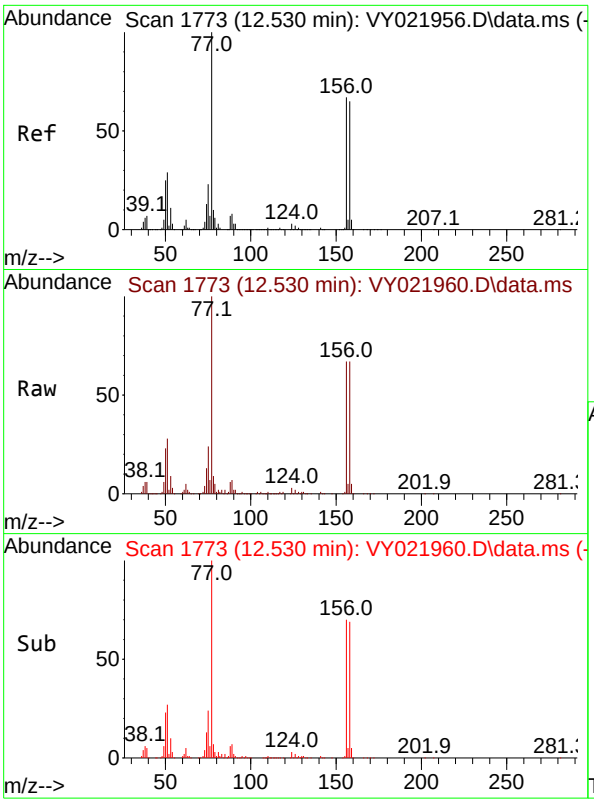


#76
1,2,3-Trichloropropane
Concen: 43.169 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 75 Resp: 92664

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

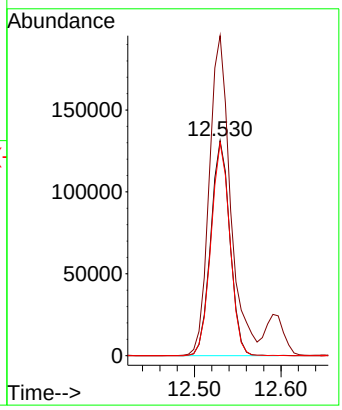




#77
Bromobenzene
Concen: 47.741 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:156 Resp: 20197

Ion	Ratio	Lower	Upper
156	100		
77	164.7	82.7	248.1
158	97.8	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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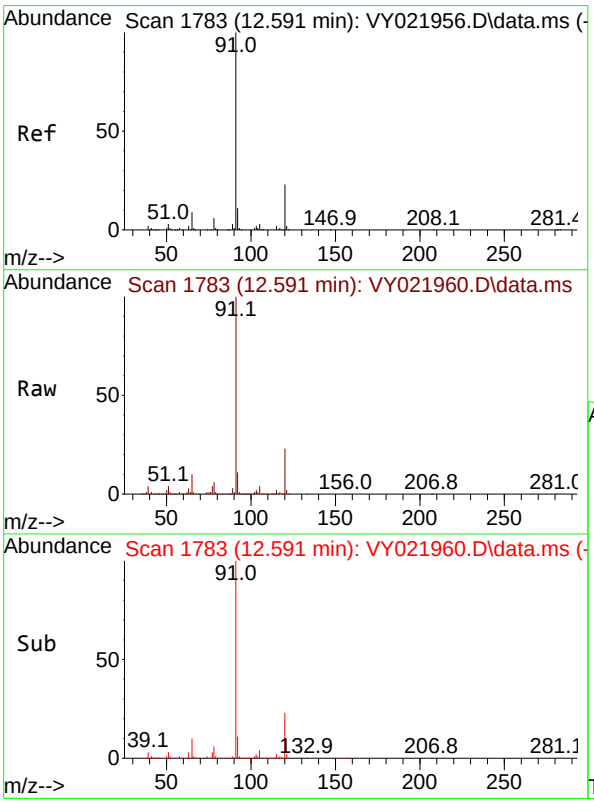
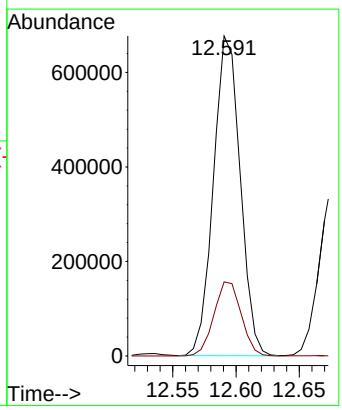
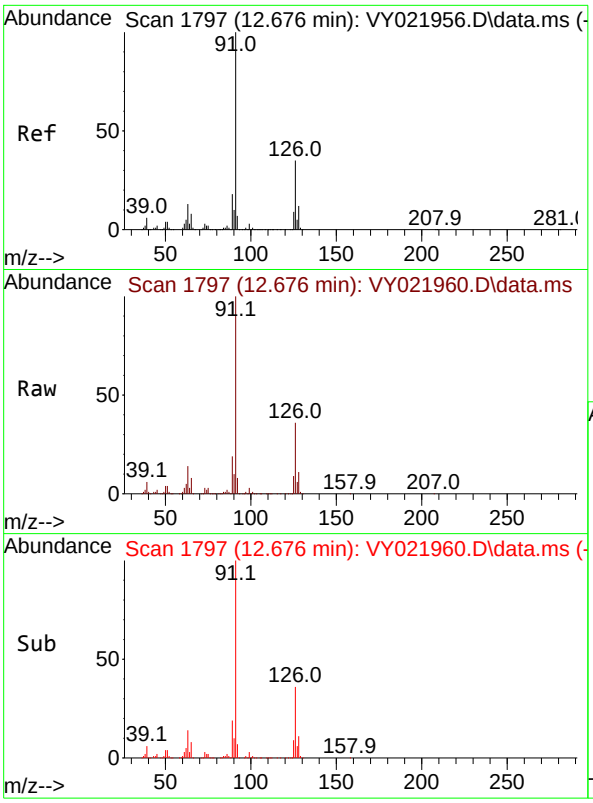


#78
n-propylbenzene
Concen: 49.907 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 91 Resp: 995089

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.9	35.5

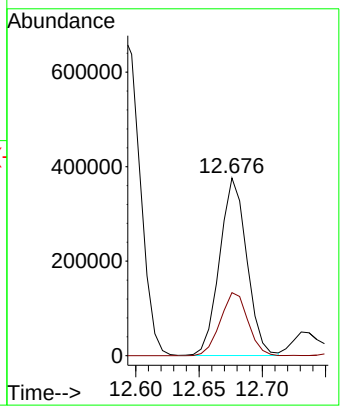




#79
2-Chlorotoluene
Concen: 48.351 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 91 Resp: 56066

Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
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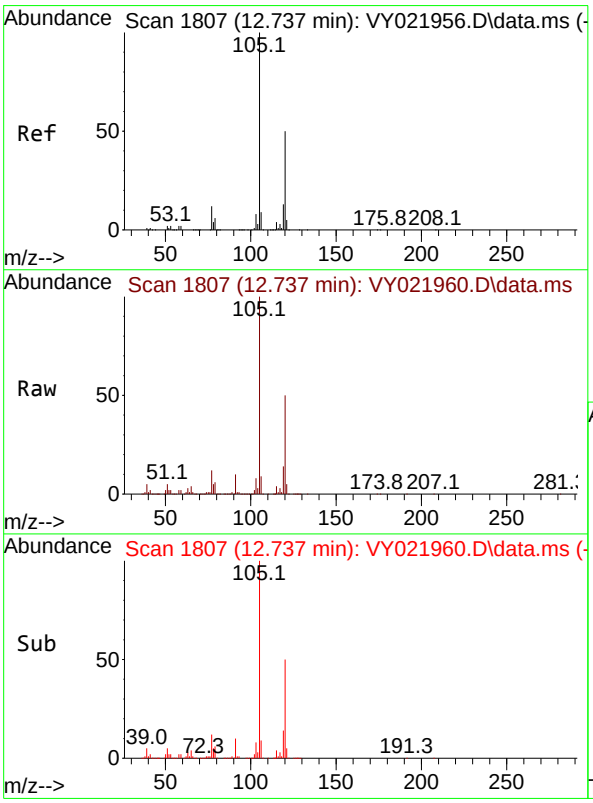
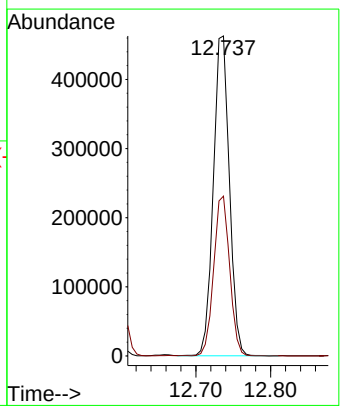
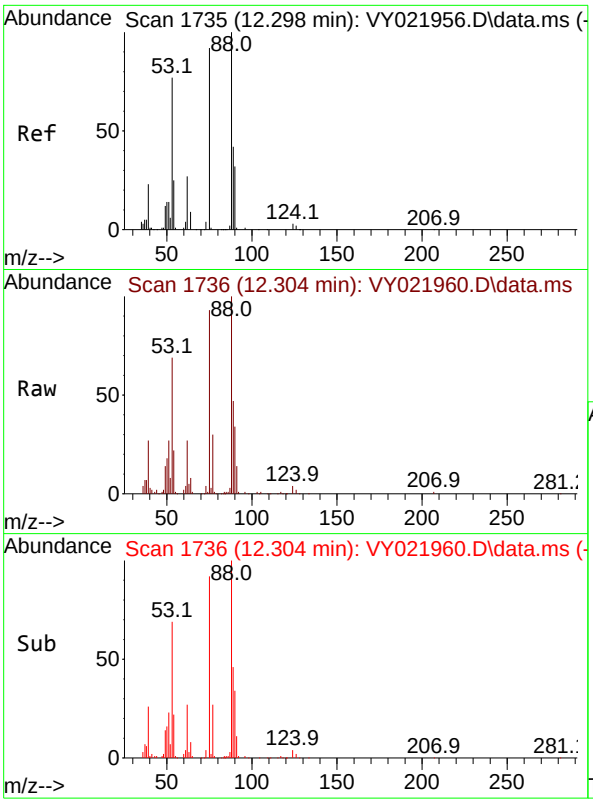


#80
1,3,5-Trimethylbenzene
Concen: 50.131 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:105 Resp: 691575

Ion	Ratio	Lower	Upper
105	100		
120	49.8	25.0	75.0





#81
trans-1,4-Dichloro-2-butene
Concen: 44.304 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 75 Resp: 3949

Ion	Ratio	Lower	Upper
75	100		
53	82.0	66.0	99.0
89	49.6	37.2	55.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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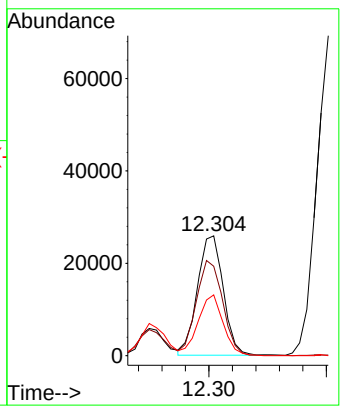
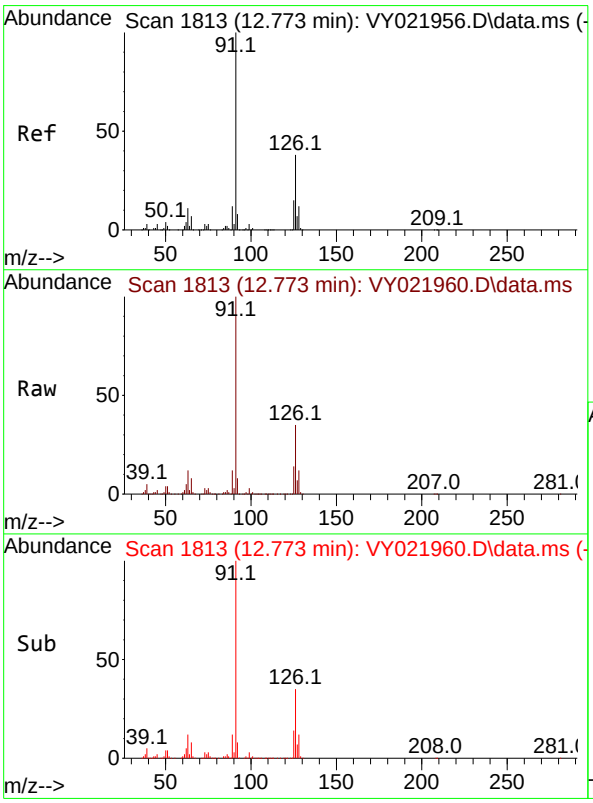
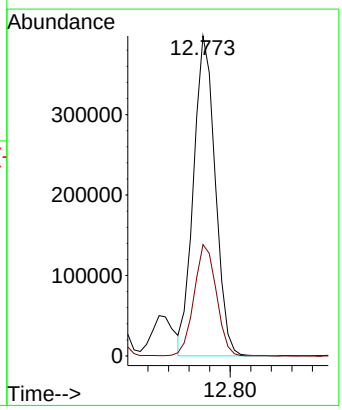


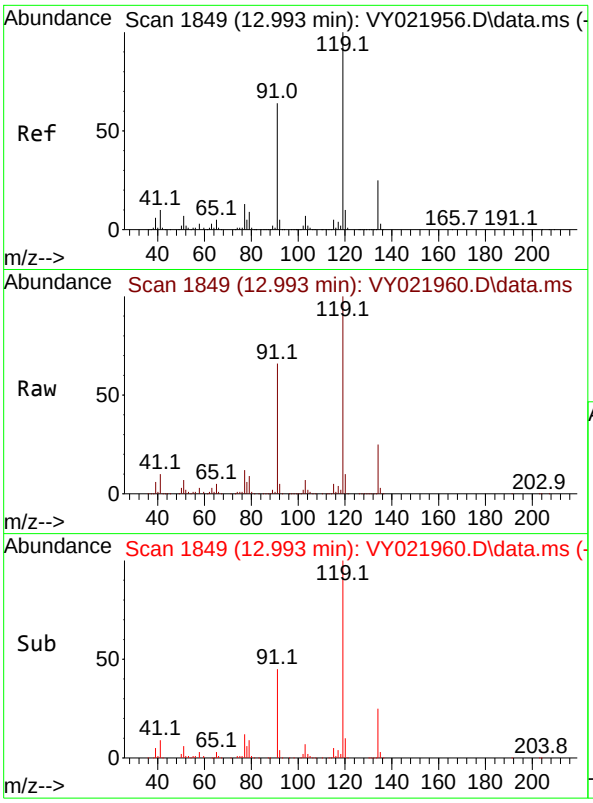


#82
4-Chlorotoluene
Concen: 48.406 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 91 Resp: 583487

Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.9	53.8





#83
tert-Butylbenzene
Concen: 51.499 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:119 Resp: 63715

Ion	Ratio	Lower	Upper
119	100		
91	60.5	30.3	90.9
134	25.7	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

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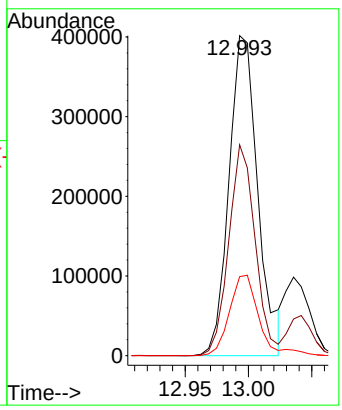
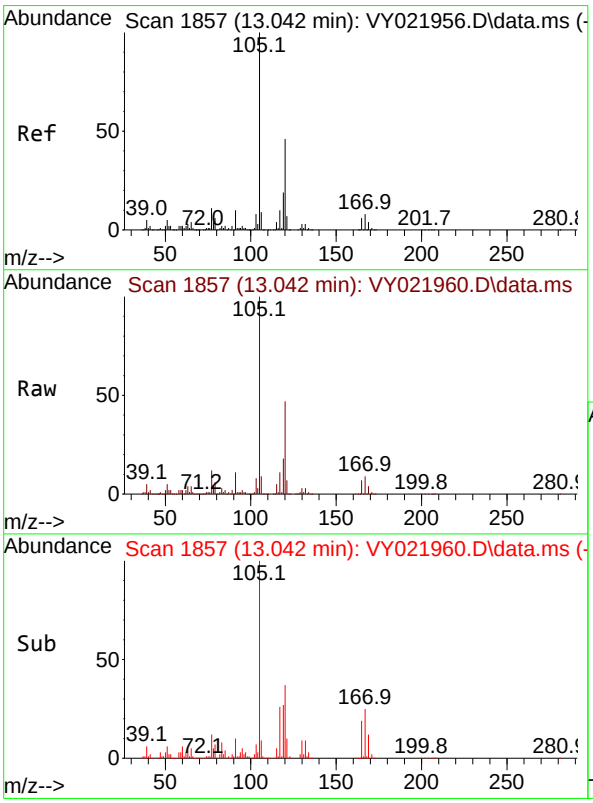
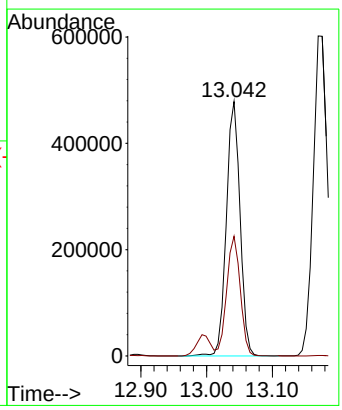


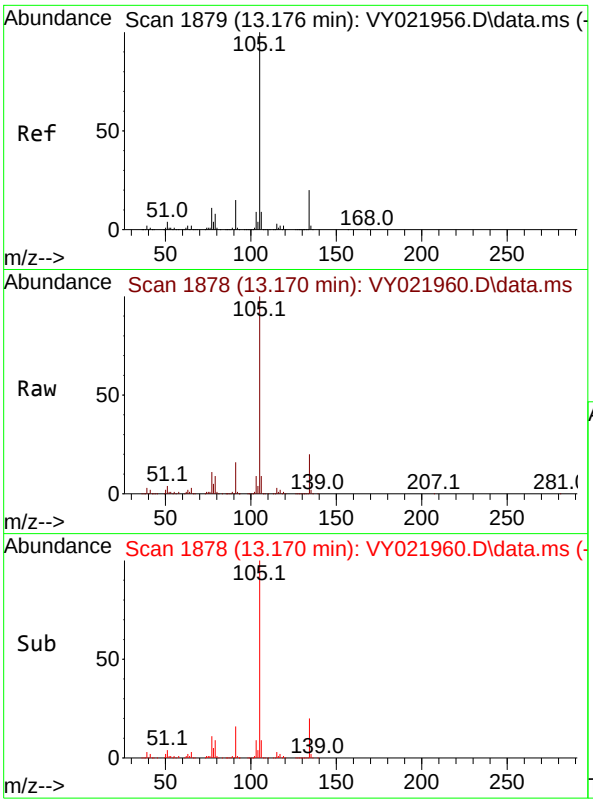


#84
1,2,4-Trimethylbenzene
Concen: 50.285 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:105 Resp: 693849

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.0

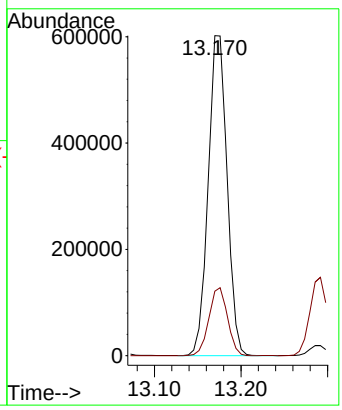




#85
sec-Butylbenzene
Concen: 50.397 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:105 Resp: 91239

Ion	Ratio	Lower	Upper
105	100		
134	21.0	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
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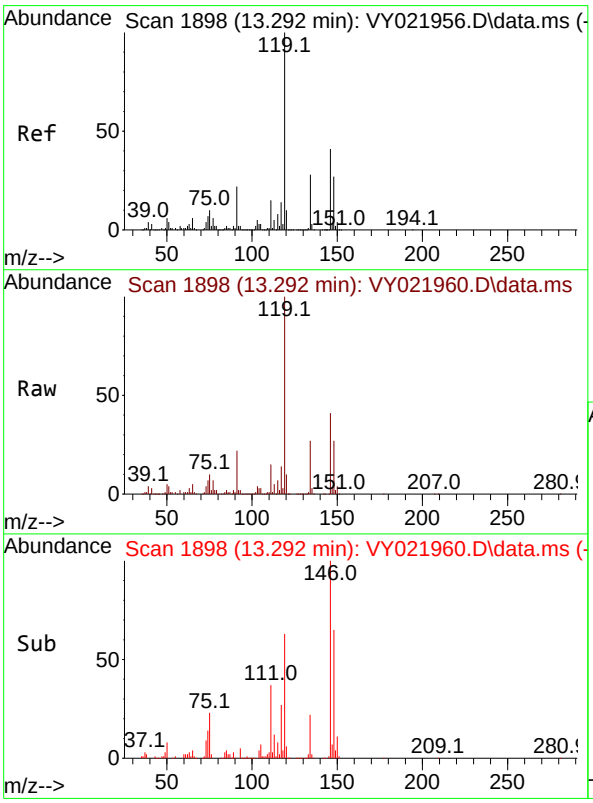
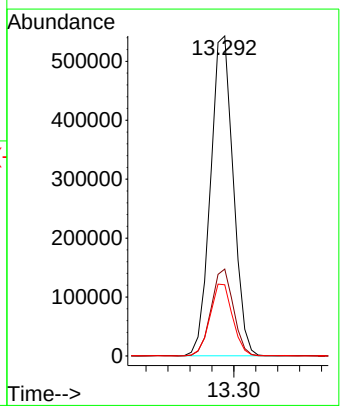
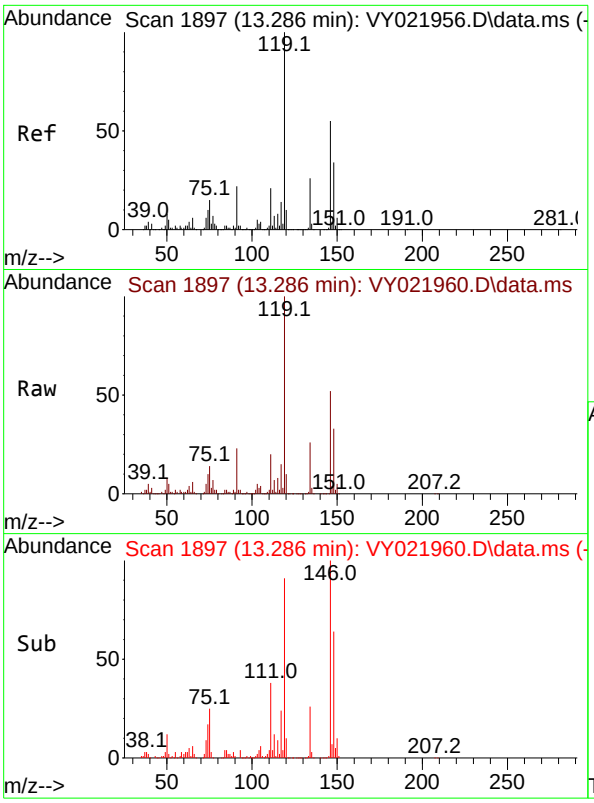


#86
p-Isopropyltoluene
Concen: 50.831 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:119 Resp: 781445

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.6	40.7
91	22.3	11.0	33.0

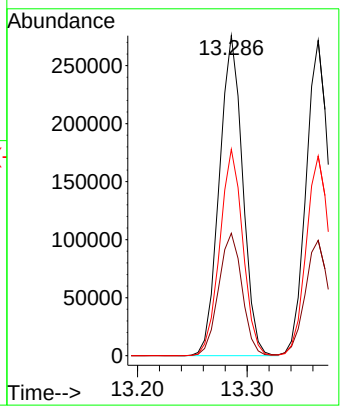




#87
1,3-Dichlorobenzene
Concen: 47.528 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:146 Resp: 40839

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.5
148	63.8	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
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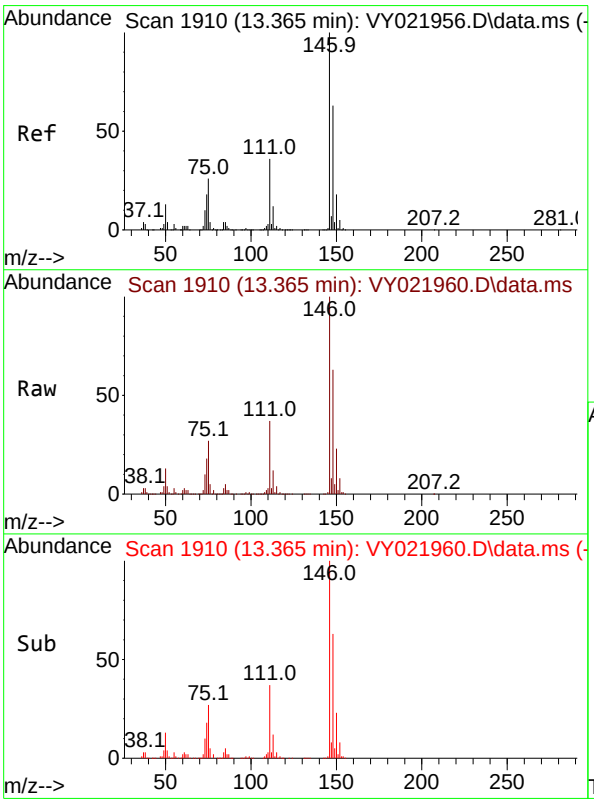
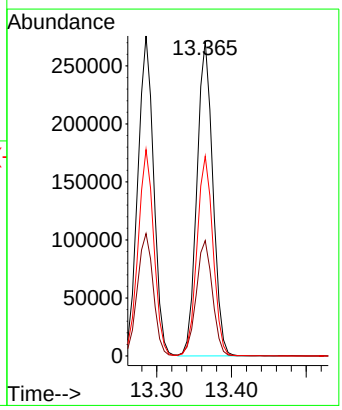
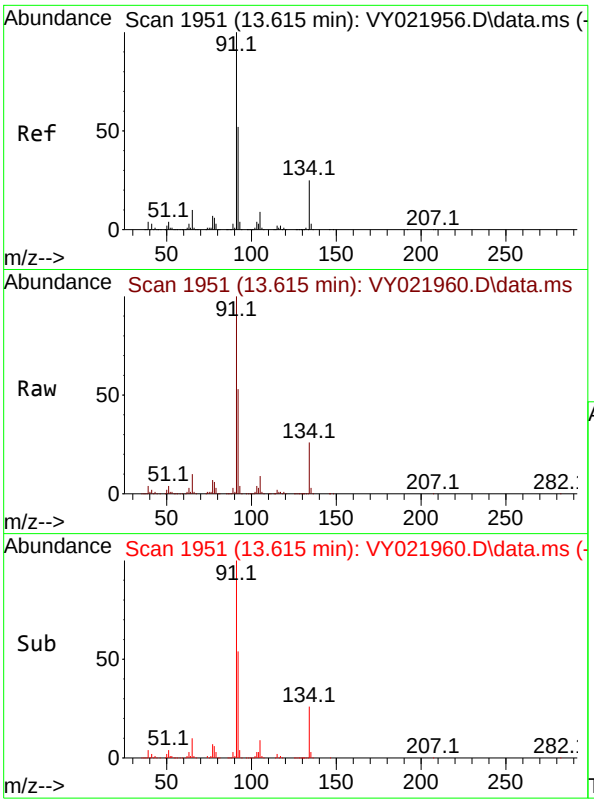


#88
1,4-Dichlorobenzene
Concen: 47.202 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:146 Resp: 401694

Ion	Ratio	Lower	Upper
146	100		
111	37.2	19.2	57.6
148	63.8	32.0	96.0

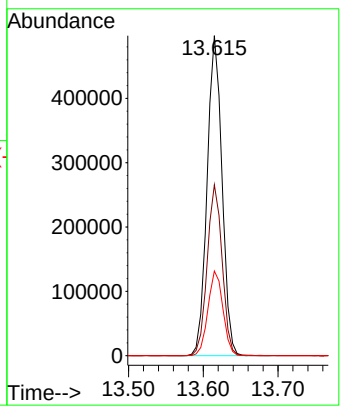




#89
n-Butylbenzene
Concen: 50.209 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 91 Resp: 68993

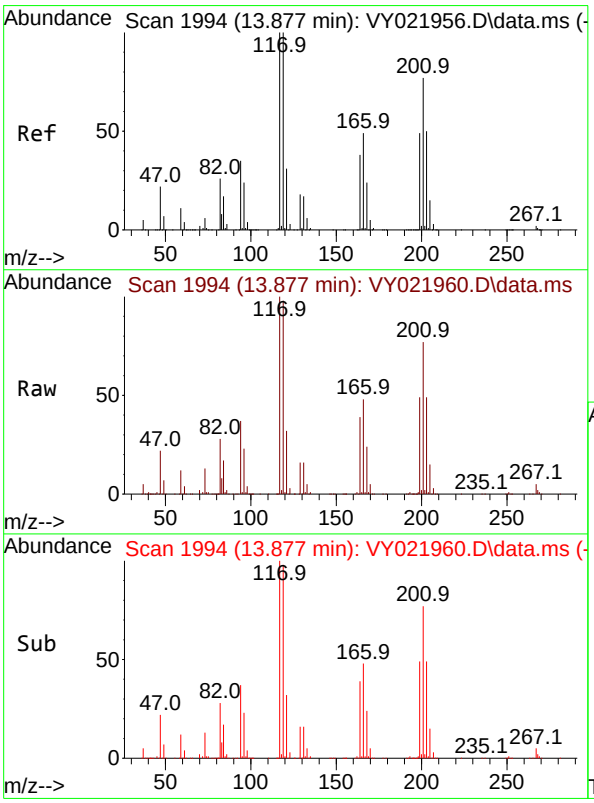
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.5	79.5
134	26.6	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

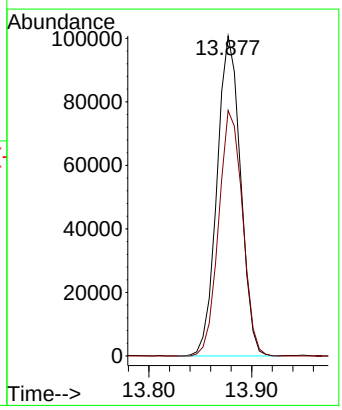
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

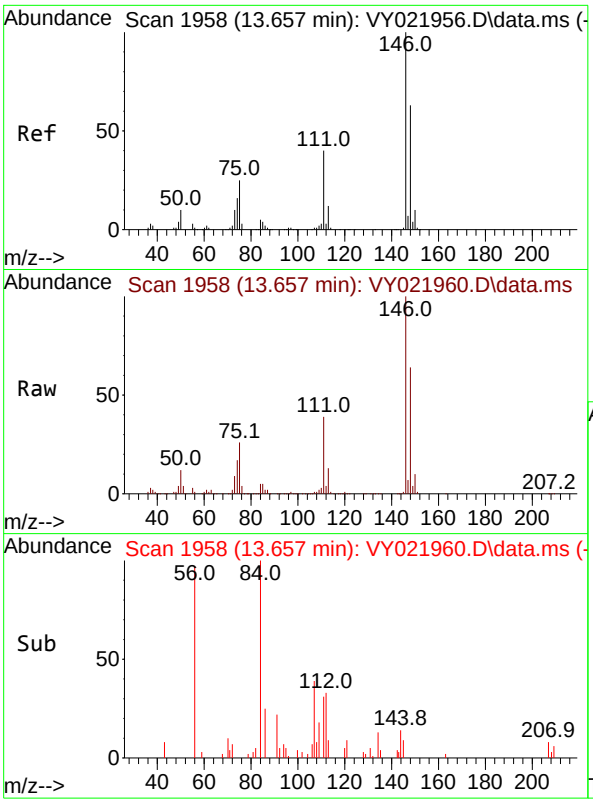


#90
Hexachloroethane
Concen: 47.410 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:117 Resp: 160136

Ion	Ratio	Lower	Upper
117	100		
201	77.7	38.7	116.1

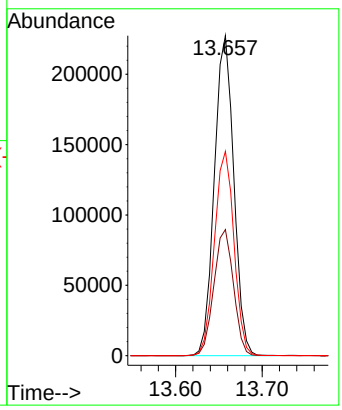




#91
1,2-Dichlorobenzene
Concen: 47.337 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:146 Resp: 35476

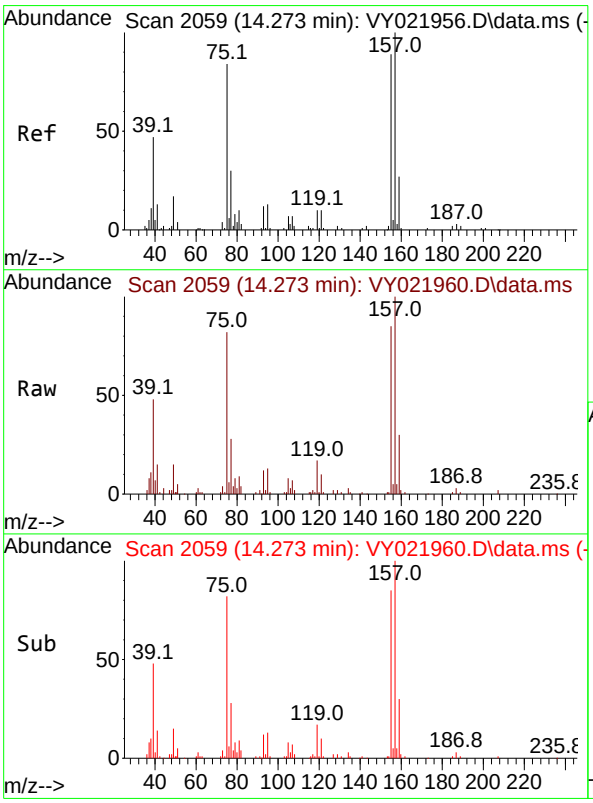
Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.7	59.1
148	64.2	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

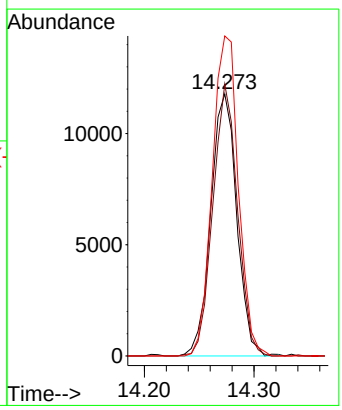
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

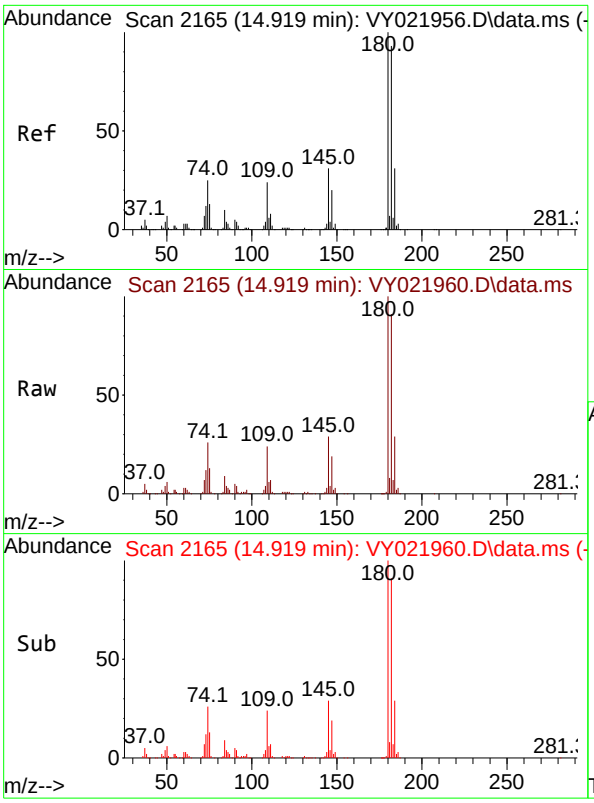


#92
1,2-Dibromo-3-Chloropropane
Concen: 43.151 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion: 75 Resp: 19379

Ion	Ratio	Lower	Upper
75	100		
155	98.3	50.7	152.3
157	122.9	62.6	187.8

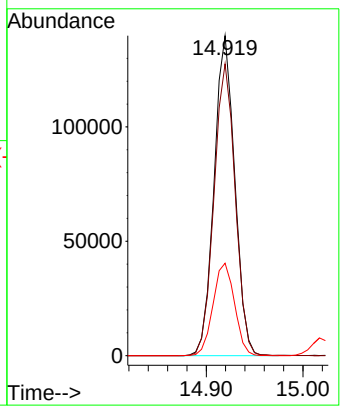




#93
1,2,4-Trichlorobenzene
Concen: 48.811 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:180 Resp: 20729

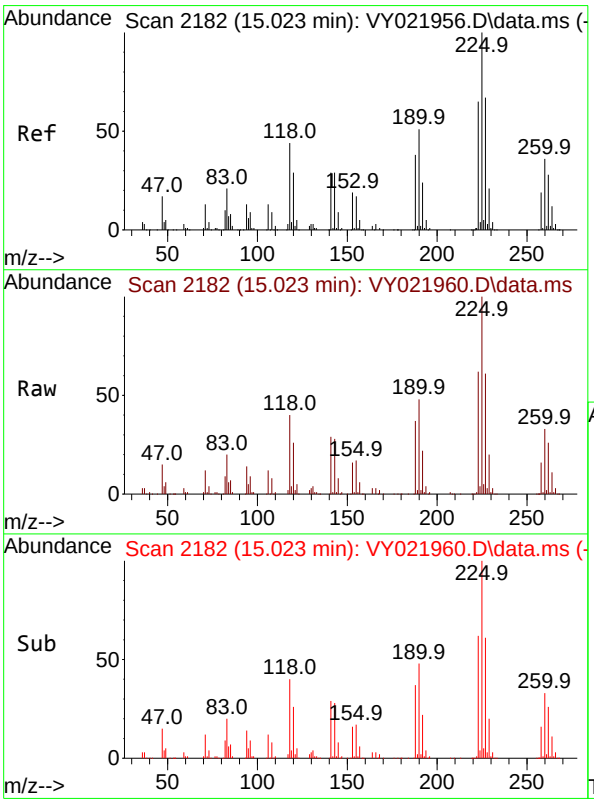
Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.1	141.4
145	30.1	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

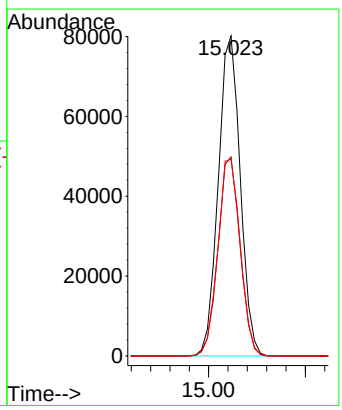
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

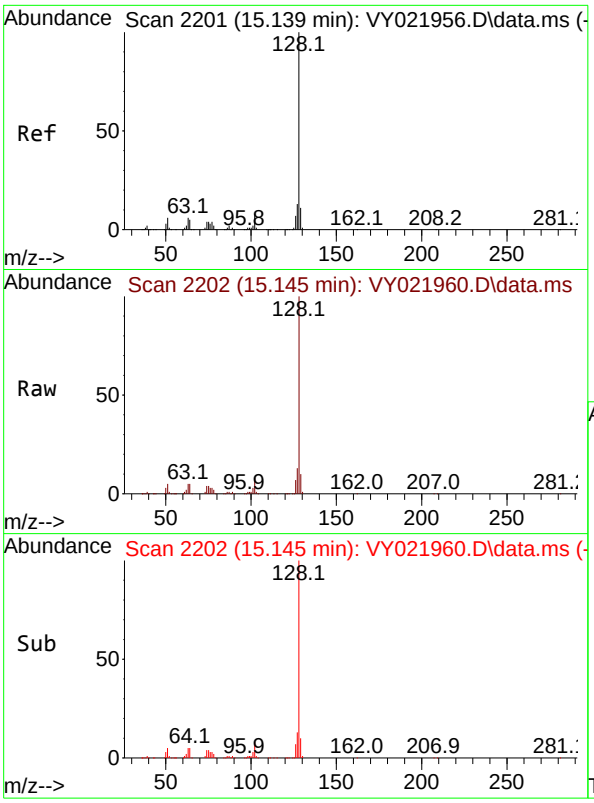


#94
Hexachlorobutadiene
Concen: 48.376 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:225 Resp: 126404

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.9	95.5
227	62.9	32.3	96.9

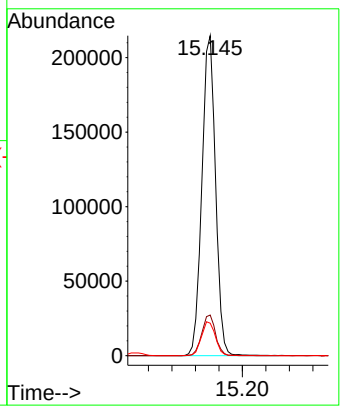




#95
Naphthalene
Concen: 48.975 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:128 Resp: 34551

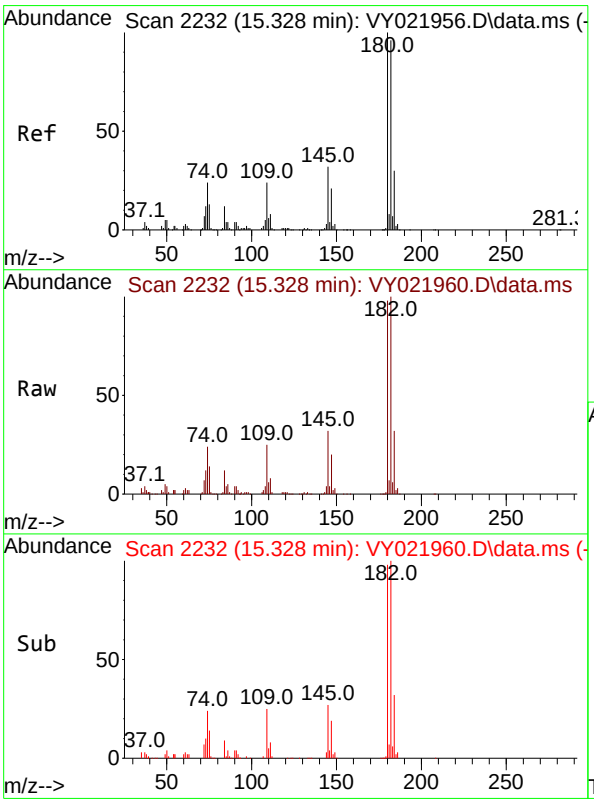
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.9	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Manual Integrations
APPROVED

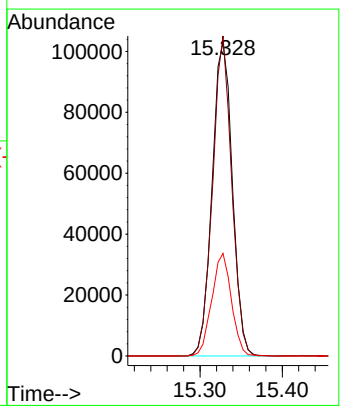
Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.914 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY021960.D
Acq: 22 Apr 2025 17:01

Tgt Ion:180 Resp: 175651

Ion	Ratio	Lower	Upper
180	100		
182	96.5	48.1	144.4
145	31.8	16.0	48.0



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	103	0.00
2	T	Dichlorodifluoromethane	0.426	0.395	7.3	104	0.00
3	P	Chloromethane	0.607	0.551	9.2	95	0.00
4	C	Vinyl Chloride	0.745	0.677	9.1#	96	0.00
5	T	Bromomethane	0.642	0.532	17.1	92	0.00
6	T	Chloroethane	0.508	0.450	11.4	94	0.00
7	T	Trichlorofluoromethane	0.983	0.907	7.7	98	0.00
8	T	Diethyl Ether	0.256	0.235	8.2	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.533	0.492	7.7	104	0.00
10	T	Methyl Iodide	0.617	0.557	9.7	91	0.00
11	T	Tert butyl alcohol	0.025	0.023	8.0	91	0.00
12	CM	1,1-Dichloroethene	0.497	0.479	3.6#	105	0.00
13	T	Acrolein	0.046	0.041	10.9	101	0.00
14	T	Allyl chloride	0.579	0.549	5.2	102	0.00
15	T	Acrylonitrile	0.094	0.085	9.6	94	0.00
16	T	Acetone	0.070	0.056	20.0	92	0.00
17	T	Carbon Disulfide	1.585	1.488	6.1	103	0.00
18	T	Methyl Acetate	0.216	0.211	2.3	98	0.00
19	T	Methyl tert-butyl Ether	1.113	1.066	4.2	97	0.00
20	T	Methylene Chloride	0.584	0.527	9.8	102	0.00
21	T	trans-1,2-Dichloroethene	0.557	0.528	5.2	103	0.00
22	T	Diisopropyl ether	1.288	1.243	3.5	100	0.00
23	T	Vinyl Acetate	0.694	0.666	4.0	96	0.00
24	P	1,1-Dichloroethane	0.893	0.829	7.2	100	0.00
25	T	2-Butanone	0.105	0.093	11.4	91	0.00
26	T	2,2-Dichloropropane	0.782	0.725	7.3	101	0.00
27	T	cis-1,2-Dichloroethene	0.622	0.595	4.3	100	0.00
28	T	Bromochloromethane	0.347	0.336	3.2	101	0.00
29	T	Tetrahydrofuran	0.068	0.063	7.4	89	0.00
30	C	Chloroform	0.990	0.924	6.7#	100	0.00
31	T	Cyclohexane	0.763	0.711	6.8	104	0.00
32	T	1,1,1-Trichloroethane	0.896	0.842	6.0	102	0.00
33	S	1,2-Dichloroethane-d4	0.462	0.445	3.7	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
35	S	Dibromofluoromethane	0.330	0.324	1.8	101	0.00
36	T	1,1-Dichloropropene	0.444	0.425	4.3	103	0.00
37	T	Ethyl Acetate	0.159	0.147	7.5	93	0.00
38	T	Carbon Tetrachloride	0.530	0.505	4.7	102	0.00
39	T	Methylcyclohexane	0.558	0.553	0.9	103	0.00
40	TM	Benzene	1.387	1.323	4.6	101	0.00
41	T	Methacrylonitrile	0.087	0.076	12.6	84	0.00
42	TM	1,2-Dichloroethane	0.343	0.319	7.0	98	0.00
43	T	Isopropyl Acetate	0.306	0.285	6.9	94	0.00
44	TM	Trichloroethene	0.384	0.361	6.0	101	0.00
45	C	1,2-Dichloropropane	0.307	0.290	5.5#	99	0.00
46	T	Dibromomethane	0.192	0.179	6.8	98	0.00
47	T	Bromodichloromethane	0.480	0.460	4.2	100	0.00
48	T	Methyl methacrylate	0.141	0.139	1.4	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	-0.01
50	S	Toluene-d8	1.245	1.259	-1.1	101	0.00
51	T	4-Methyl-2-Pentanone	0.160	0.153	4.4	91	0.00
52	CM	Toluene	0.898	0.876	2.4#	101	0.00
53	T	t-1,3-Dichloropropene	0.411	0.394	4.1	97	0.00
54	T	cis-1,3-Dichloropropene	0.489	0.471	3.7	100	0.00
55	T	1,1,2-Trichloroethane	0.256	0.243	5.1	97	0.00
56	T	Ethyl methacrylate	0.293	0.294	-0.3	95	0.00
57	T	1,3-Dichloropropane	0.411	0.387	5.8	97	0.00
58	T	2-Chloroethyl Vinyl ether	0.143	0.146	-2.1	93	0.00
59	T	2-Hexanone	0.106	0.101	4.7	90	0.00
60	T	Dibromochloromethane	0.355	0.333	6.2	97	0.00
61	T	1,2-Dibromoethane	0.242	0.229	5.4	97	0.00
62	S	4-Bromofluorobenzene	0.419	0.429	-2.4	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.472	0.439	7.0	98	0.00
65	PM	Chlorobenzene	1.118	1.067	4.6	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.380	3.6	100	0.00
67	C	Ethyl Benzene	1.829	1.834	-0.3#	102	0.00
68	T	m/p-Xylenes	0.728	0.736	-1.1	102	0.00
69	T	o-Xylene	0.671	0.684	-1.9	101	0.00
70	T	Styrene	1.126	1.160	-3.0	101	0.00
71	P	Bromoform	0.229	0.219	4.4	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.341	3.325	0.5	102	0.00
74	T	N-amyl acetate	0.574	0.531	7.5	92	0.00
75	P	1,1,2,2-Tetrachloroethane	0.563	0.519	7.8	96	0.00
76	T	1,2,3-Trichloropropane	0.428	0.370	13.6	93	0.00
77	T	Bromobenzene	0.844	0.806	4.5	99	0.00
78	T	n-propylbenzene	3.978	3.971	0.2	102	0.00
79	T	2-Chlorotoluene	2.314	2.237	3.3	100	0.00
80	T	1,3,5-Trimethylbenzene	2.752	2.760	-0.3	100	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.158	11.2	91	0.00
82	T	4-Chlorotoluene	2.405	2.328	3.2	100	0.00
83	T	tert-Butylbenzene	2.468	2.542	-3.0	104	0.00
84	T	1,2,4-Trimethylbenzene	2.753	2.769	-0.6	101	0.00
85	T	sec-Butylbenzene	3.612	3.641	-0.8	103	0.00
86	T	p-Isopropyltoluene	3.067	3.118	-1.7	103	0.00
87	T	1,3-Dichlorobenzene	1.714	1.630	4.9	101	0.00
88	T	1,4-Dichlorobenzene	1.698	1.603	5.6	101	0.00
89	T	n-Butylbenzene	2.742	2.753	-0.4	102	0.00
90	T	Hexachloroethane	0.674	0.639	5.2	102	0.00
91	T	1,2-Dichlorobenzene	1.495	1.416	5.3	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.090	0.077	14.4	94	0.00
93	T	1,2,4-Trichlorobenzene	0.847	0.827	2.4	102	0.00
94	T	Hexachlorobutadiene	0.521	0.504	3.3	107	0.00
95	T	Naphthalene	1.408	1.379	2.1	98	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	0.731	0.701	4.1	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	103	0.00
2	T	Dichlorodifluoromethane	50.000	46.375	7.2	104	0.00
3	P	Chloromethane	50.000	45.440	9.1	95	0.00
4	C	Vinyl Chloride	50.000	45.432	9.1#	96	0.00
5	T	Bromomethane	50.000	41.389	17.2	92	0.00
6	T	Chloroethane	50.000	44.363	11.3	94	0.00
7	T	Trichlorofluoromethane	50.000	46.128	7.7	98	0.00
8	T	Diethyl Ether	50.000	45.910	8.2	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.166	7.7	104	0.00
10	T	Methyl Iodide	50.000	45.123	9.8	91	0.00
11	T	Tert butyl alcohol	250.000	226.751	9.3	91	0.00
12	CM	1,1-Dichloroethene	50.000	48.182	3.6#	105	0.00
13	T	Acrolein	250.000	227.366	9.1	101	0.00
14	T	Allyl chloride	50.000	47.458	5.1	102	0.00
15	T	Acrylonitrile	250.000	226.587	9.4	94	0.00
16	T	Acetone	250.000	231.130	7.5	92	0.00
17	T	Carbon Disulfide	50.000	46.938	6.1	103	0.00
18	T	Methyl Acetate	50.000	48.904	2.2	98	0.00
19	T	Methyl tert-butyl Ether	50.000	47.891	4.2	97	0.00
20	T	Methylene Chloride	50.000	45.147	9.7	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.430	5.1	103	0.00
22	T	Diisopropyl ether	50.000	48.273	3.5	100	0.00
23	T	Vinyl Acetate	250.000	239.824	4.1	96	0.00
24	P	1,1-Dichloroethane	50.000	46.404	7.2	100	0.00
25	T	2-Butanone	250.000	220.139	11.9	91	0.00
26	T	2,2-Dichloropropane	50.000	46.334	7.3	101	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.795	4.4	100	0.00
28	T	Bromochloromethane	50.000	48.457	3.1	101	0.00
29	T	Tetrahydrofuran	250.000	229.194	8.3	89	0.00
30	C	Chloroform	50.000	46.643	6.7#	100	0.00
31	T	Cyclohexane	50.000	46.548	6.9	104	0.00
32	T	1,1,1-Trichloroethane	50.000	47.007	6.0	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.224	3.6	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	103	0.00
35	S	Dibromofluoromethane	50.000	48.989	2.0	101	0.00
36	T	1,1-Dichloropropene	50.000	47.914	4.2	103	0.00
37	T	Ethyl Acetate	50.000	46.092	7.8	93	0.00
38	T	Carbon Tetrachloride	50.000	47.630	4.7	102	0.00
39	T	Methylcyclohexane	50.000	49.486	1.0	103	0.00
40	TM	Benzene	50.000	47.692	4.6	101	0.00
41	T	Methacrylonitrile	50.000	43.342	13.3	84	0.00
42	TM	1,2-Dichloroethane	50.000	46.472	7.1	98	0.00
43	T	Isopropyl Acetate	50.000	46.545	6.9	94	0.00
44	TM	Trichloroethene	50.000	47.027	5.9	101	0.00
45	C	1,2-Dichloropropane	50.000	47.326	5.3#	99	0.00
46	T	Dibromomethane	50.000	46.578	6.8	98	0.00
47	T	Bromodichloromethane	50.000	47.955	4.1	100	0.00
48	T	Methyl methacrylate	50.000	49.090	1.8	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	951.409	4.9	98	-0.01
50	S	Toluene-d8	50.000	50.539	-1.1	101	0.00
51	T	4-Methyl-2-Pentanone	250.000	237.972	4.8	91	0.00
52	CM	Toluene	50.000	48.774	2.5#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	47.893	4.2	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.122	3.8	100	0.00
55	T	1,1,2-Trichloroethane	50.000	47.403	5.2	97	0.00
56	T	Ethyl methacrylate	50.000	50.188	-0.4	95	0.00
57	T	1,3-Dichloropropane	50.000	47.024	6.0	97	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	253.928	-1.6	93	0.00
59	T	2-Hexanone	250.000	238.340	4.7	90	0.00
60	T	Dibromochloromethane	50.000	46.882	6.2	97	0.00
61	T	1,2-Dibromoethane	50.000	47.188	5.6	97	0.00
62	S	4-Bromofluorobenzene	50.000	51.198	-2.4	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	46.550	6.9	98	0.00
65	PM	Chlorobenzene	50.000	47.734	4.5	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.308	3.4	100	0.00
67	C	Ethyl Benzene	50.000	50.142	-0.3#	102	0.00
68	T	m/p-Xylenes	100.000	101.181	-1.2	102	0.00
69	T	o-Xylene	50.000	50.949	-1.9	101	0.00
70	T	Styrene	50.000	51.513	-3.0	101	0.00
71	P	Bromoform	50.000	47.821	4.4	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	49.765	0.5	102	0.00
74	T	N-amyl acetate	50.000	46.264	7.5	92	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.078	7.8	96	0.00
76	T	1,2,3-Trichloropropane	50.000	43.169	13.7	93	0.00
77	T	Bromobenzene	50.000	47.741	4.5	99	0.00
78	T	n-propylbenzene	50.000	49.907	0.2	102	0.00
79	T	2-Chlorotoluene	50.000	48.351	3.3	100	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.131	-0.3	100	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.304	11.4	91	0.00
82	T	4-Chlorotoluene	50.000	48.406	3.2	100	0.00
83	T	tert-Butylbenzene	50.000	51.499	-3.0	104	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.285	-0.6	101	0.00
85	T	sec-Butylbenzene	50.000	50.397	-0.8	103	0.00
86	T	p-Isopropyltoluene	50.000	50.831	-1.7	103	0.00
87	T	1,3-Dichlorobenzene	50.000	47.528	4.9	101	0.00
88	T	1,4-Dichlorobenzene	50.000	47.202	5.6	101	0.00
89	T	n-Butylbenzene	50.000	50.209	-0.4	102	0.00
90	T	Hexachloroethane	50.000	47.410	5.2	102	0.00
91	T	1,2-Dichlorobenzene	50.000	47.337	5.3	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	43.151	13.7	94	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.811	2.4	102	0.00
94	T	Hexachlorobutadiene	50.000	48.376	3.2	107	0.00
95	T	Naphthalene	50.000	48.975	2.0	98	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021960.D
Acq On : 22 Apr 2025 17:01
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY042225

Quant Time: Apr 23 02:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	47.914	4.2	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date/Time: 04/28/2025 09:59

Lab File ID: VY022021.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.426	0.366		-14.09	20
Chloromethane	0.607	0.548	0.1	-9.72	20
Vinyl Chloride	0.745	0.678		-8.99	20
Ethyl Acetate	0.159	0.157		-1.26	20
Isopropyl Acetate	0.306	0.295		-3.6	20
Bromomethane	0.642	0.537		-16.35	20
Chloroethane	0.508	0.463		-8.86	20
Tetrahydrofuran	0.068	0.067		-1.47	20
Trichlorofluoromethane	0.983	0.891		-9.36	20
1,1,2-Trichlorotrifluoroethane	0.533	0.478		-10.32	20
Tert butyl alcohol	0.025	0.023		-8	20
Diethyl Ether	0.256	0.223		-12.89	20
1,1-Dichloroethene	0.497	0.442		-11.07	20
Acrolein	0.046	0.025		-45.65	20
Acrylonitrile	0.094	0.086		-8.51	20
Acetone	0.070	0.058		-17.14	20
Carbon Disulfide	1.585	1.429		-9.84	20
Methyl tert-butyl Ether	1.113	1.036		-6.92	20
Methyl Acetate	0.216	0.238		10.19	20
Methylene Chloride	0.584	0.493		-15.58	20
trans-1,2-Dichloroethene	0.557	0.513		-7.9	20
Vinyl Acetate	0.694	0.637		-8.21	20
1,1-Dichloroethane	0.893	0.812	0.1	-9.07	20
Cyclohexane	0.763	0.668		-12.45	20
2-Butanone	0.105	0.096		-8.57	20
Carbon Tetrachloride	0.530	0.533		0.57	20
2,2-Dichloropropane	0.782	0.716		-8.44	20
cis-1,2-Dichloroethene	0.622	0.571		-8.2	20
Bromochloromethane	0.347	0.325		-6.34	20
Chloroform	0.990	0.923		-6.77	20
1,1,1-Trichloroethane	0.896	0.830		-7.37	20
Methylcyclohexane	0.558	0.536		-3.94	20
1,1-Dichloropropene	0.444	0.437		-1.58	20
Benzene	1.387	1.363		-1.73	20
1,2-Dichloroethane	0.343	0.340		-0.88	20
Trichloroethene	0.384	0.372		-3.13	20
1,2-Dichloropropane	0.307	0.301		-1.95	20
Dibromomethane	0.192	0.192		0	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date/Time: 04/28/2025 09:59

Lab File ID: VY022021.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromodichloromethane	0.480	0.481		0.21	20
4-Methyl-2-Pentanone	0.160	0.169		5.63	20
Methyl methacrylate	0.141	0.144		2.13	20
Toluene	0.898	0.912		1.56	20
t-1,3-Dichloropropene	0.411	0.414		0.73	20
cis-1,3-Dichloropropene	0.489	0.489		0	20
1,1,2-Trichloroethane	0.256	0.263		2.73	20
1,3-Dichloropropane	0.411	0.414		0.73	20
2-Chloroethyl Vinyl ether	0.143	0.157		9.79	20
2-Hexanone	0.106	0.113		6.6	20
Dibromochloromethane	0.355	0.367		3.38	20
1,2-Dibromoethane	0.242	0.251		3.72	20
Tetrachloroethene	0.472	0.461		-2.33	20
Chlorobenzene	1.118	1.077	0.3	-3.67	20
1,1,1,2-Tetrachloroethane	0.394	0.392		-0.51	20
Hexachloroethane	0.674	0.626		-7.12	20
Ethyl Benzene	1.829	1.803		-1.42	20
m/p-Xylenes	0.728	0.739		1.51	20
o-Xylene	0.671	0.674		0.45	20
Styrene	1.126	1.164		3.38	20
Bromoform	0.229	0.236	0.1	3.06	20
Isopropylbenzene	3.341	3.228		-3.38	20
1,1,2,2-Tetrachloroethane	0.563	0.540	0.3	-4.09	20
1,2,3-Trichloropropane	0.428	0.410		-4.21	20
Bromobenzene	0.844	0.811		-3.91	20
n-propylbenzene	3.978	3.852		-3.17	20
2-Chlorotoluene	2.314	2.191		-5.32	20
1,3,5-Trimethylbenzene	2.752	2.721		-1.13	20
4-Chlorotoluene	2.405	2.314		-3.78	20
tert-Butylbenzene	2.469	2.368		-4.09	20
1,2,4-Trimethylbenzene	2.753	2.736		-0.62	20
sec-Butylbenzene	3.612	3.492		-3.32	20
p-Isopropyltoluene	3.067	3.013		-1.76	20
1,3-Dichlorobenzene	1.714	1.651		-3.68	20
1,4-Dichlorobenzene	1.698	1.606		-5.42	20
n-Butylbenzene	2.742	2.598		-5.25	20
1,2-Dichlorobenzene	1.495	1.436		-3.95	20
1,2-Dibromo-3-Chloropropane	0.090	0.086		-4.44	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: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date/Time: 04/28/2025 09:59

Lab File ID: VY022021.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,2,4-Trichlorobenzene	0.847	0.815		-3.78	20
Hexachlorobutadiene	0.521	0.499		-4.22	20
Naphthalene	1.408	1.399		-0.64	20
1,2,3-Trichlorobenzene	0.731	0.723		-1.09	20
1,2-Dichloroethane-d4	0.462	0.422		-8.66	20
Dibromofluoromethane	0.330	0.326		-1.21	20
Toluene-d8	1.245	1.244		-0.08	20
4-Bromofluorobenzene	0.419	0.422		0.72	20
N-amyl acetate	0.574	0.524		-8.71	20
Methyl Iodide	0.617	0.580		-6	20
Allyl chloride	0.579	0.516		-10.88	20
trans-1,4-Dichloro-2-butene	0.178	0.164		-7.86	20
Methacrylonitrile	0.087	0.088		1.15	20
Diisopropyl ether	1.288	1.218		-5.43	20
1,4-Dioxane	2.047	2.027	0.05	-0.98	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	316866	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	463292	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	436582	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	238558	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	133766	45.703	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 91.400%			
35) Dibromofluoromethane	7.634	113	150892	49.299	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.600%			
50) Toluene-d8	10.109	98	576275	49.941	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.408	95	195343	50.288	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	116076	42.991	ug/l	98
3) Chloromethane	2.068	50	173631	45.163	ug/l	99
4) Vinyl Chloride	2.202	62	214876	45.482	ug/l	99
5) Bromomethane	2.592	94	170113	41.794	ug/l	98
6) Chloroethane	2.733	64	146584	45.558	ug/l	100
7) Trichlorofluoromethane	3.056	101	282306	45.316	ug/l	96
8) Diethyl Ether	3.452	74	70779	43.651	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	151333	44.780	ug/l	100
10) Methyl Iodide	4.007	142	183769	46.967	ug/l	99
11) Tert butyl alcohol	4.866	59	35986	223.960	ug/l #	93
12) 1,1-Dichloroethene	3.787	96	140007	44.447	ug/l	95
13) Acrolein	3.653	56	39920	138.423	ug/l	96
14) Allyl chloride	4.385	41	163390	44.547	ug/l	99
15) Acrylonitrile	5.061	53	136206	229.455	ug/l	99
16) Acetone	3.873	43	91801	238.658	ug/l	94
17) Carbon Disulfide	4.104	76	452882	45.091	ug/l	99
18) Methyl Acetate	4.391	43	75409	55.156	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	328254	46.559	ug/l	98
20) Methylene Chloride	4.616	84	156196	42.205	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	162653	46.106	ug/l	99
22) Diisopropyl ether	6.019	45	385976	47.287	ug/l	98
23) Vinyl Acetate	5.964	43	1009046	229.383	ug/l	100
24) 1,1-Dichloroethane	5.915	63	257272	45.472	ug/l #	97
25) 2-Butanone	6.896	43	151911	227.698	ug/l	96
26) 2,2-Dichloropropane	6.884	77	226836	45.744	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	181037	45.895	ug/l	100
28) Bromochloromethane	7.244	49	102834	46.794	ug/l	99
29) Tetrahydrofuran	7.268	42	105859	244.304	ug/l	100
30) Chloroform	7.421	83	292396	46.592	ug/l	98
31) Cyclohexane	7.701	56	211764	43.769	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	262924	46.308	ug/l	99
36) 1,1-Dichloropropene	7.835	75	202515	49.257	ug/l	100
37) Ethyl Acetate	6.988	43	72715	49.244	ug/l	98
38) Carbon Tetrachloride	7.817	117	246873	50.250	ug/l	98
39) Methylcyclohexane	9.109	83	248104	47.952	ug/l	97
40) Benzene	8.079	78	631630	49.146	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	40961	50.745	ug/l		96
42) 1,2-Dichloroethane	8.158	62	157468	49.487	ug/l		100
43) Isopropyl Acetate	8.201	43	136500	48.136	ug/l		100
44) Trichloroethene	8.866	130	172375	48.422	ug/l		95
45) 1,2-Dichloropropane	9.140	63	139620	49.124	ug/l		100
46) Dibromomethane	9.231	93	88811	49.917	ug/l		98
47) Bromodichloromethane	9.420	83	222855	50.140	ug/l		100
48) Methyl methacrylate	9.225	41	66889	51.025	ug/l		98
49) 1,4-Dioxane	9.237	88	18782	990.448	ug/l		95
51) 4-Methyl-2-Pentanone	10.000	43	390922	262.978	ug/l		100
52) Toluene	10.170	92	422400	50.774	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	191764	50.300	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	226727	50.030	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	121704	51.210	ug/l		98
56) Ethyl methacrylate	10.438	69	138287	50.883	ug/l		99
57) 1,3-Dichloropropane	10.719	76	191690	50.313	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	364363	274.205	ug/l		99
59) 2-Hexanone	10.762	43	261097	266.294	ug/l		100
60) Dibromochloromethane	10.914	129	169983	51.661	ug/l		100
61) 1,2-Dibromoethane	11.018	107	116441	51.898	ug/l		99
64) Tetrachloroethene	10.646	164	201169	48.844	ug/l		96
65) Chlorobenzene	11.444	112	469987	48.139	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	171117	49.785	ug/l		99
67) Ethyl Benzene	11.518	91	787306	49.296	ug/l		100
68) m/p-Xylenes	11.627	106	644900	101.477	ug/l		98
69) o-Xylene	11.957	106	294379	50.257	ug/l		99
70) Styrene	11.969	104	508377	51.691	ug/l		99
71) Bromoform	12.133	173	102919	51.502	ug/l	#	99
73) Isopropylbenzene	12.255	105	770147	48.321	ug/l		99
74) N-amyl acetate	12.072	43	125014	45.653	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	128769	47.921	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	97818m	47.871	ug/l		
77) Bromobenzene	12.530	156	193416	48.026	ug/l		99
78) n-propylbenzene	12.597	91	918990	48.417	ug/l		99
79) 2-Chlorotoluene	12.682	91	522771	47.359	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	649179	49.434	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	39219	46.220	ug/l		97
82) 4-Chlorotoluene	12.780	91	552085	48.113	ug/l		100
83) tert-Butylbenzene	12.999	119	564883	47.962	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	652719	49.692	ug/l		99
85) sec-Butylbenzene	13.176	105	833063	48.338	ug/l		99
86) p-Isopropyltoluene	13.292	119	718809	49.118	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	393855	48.150	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	383054	47.284	ug/l		99
89) n-Butylbenzene	13.621	91	619718	47.376	ug/l		100
90) Hexachloroethane	13.883	117	149402	46.466	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	342527	48.011	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	20568	48.111	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	194321	48.066	ug/l		100
94) Hexachlorobutadiene	15.023	225	119092	47.878	ug/l		98
95) Naphthalene	15.145	128	333693	49.688	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	172423	49.408	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

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\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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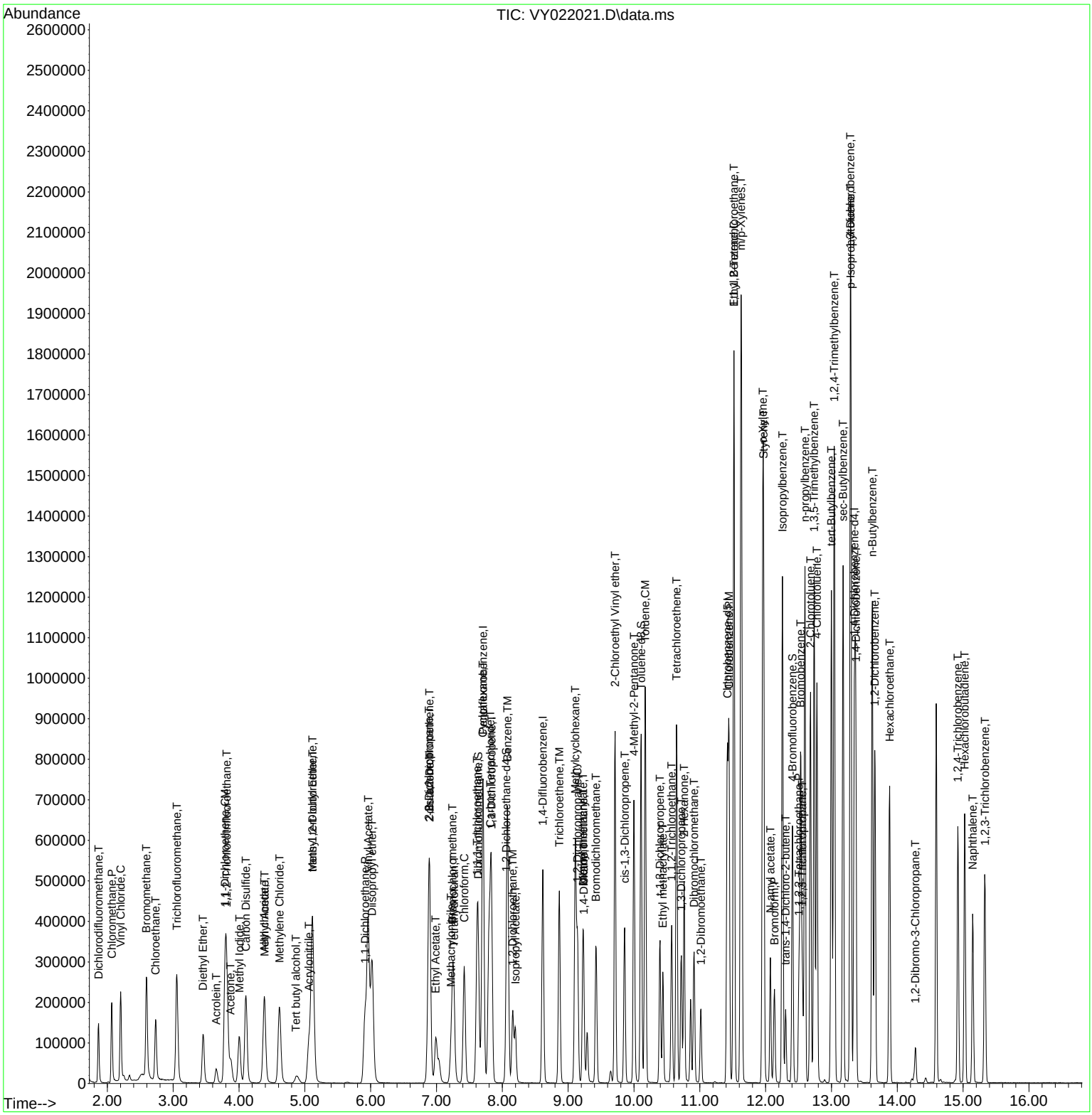
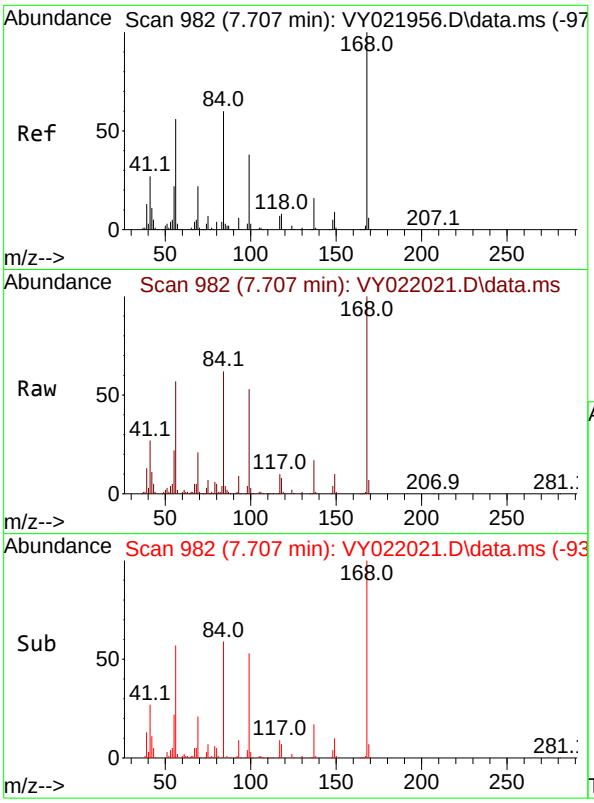
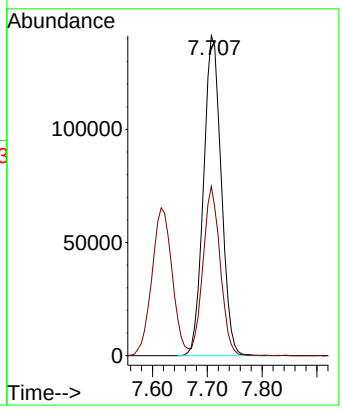




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:168 Resp: 31686

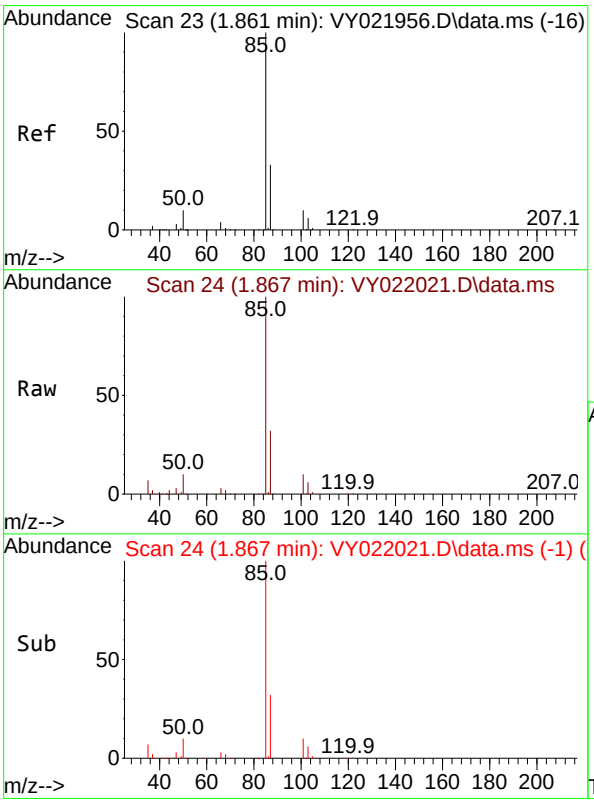
Ion	Ratio	Lower	Upper
168	100		
99	52.8	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

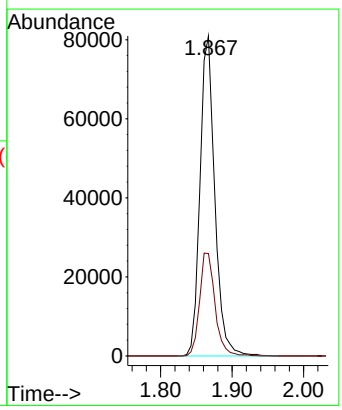
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

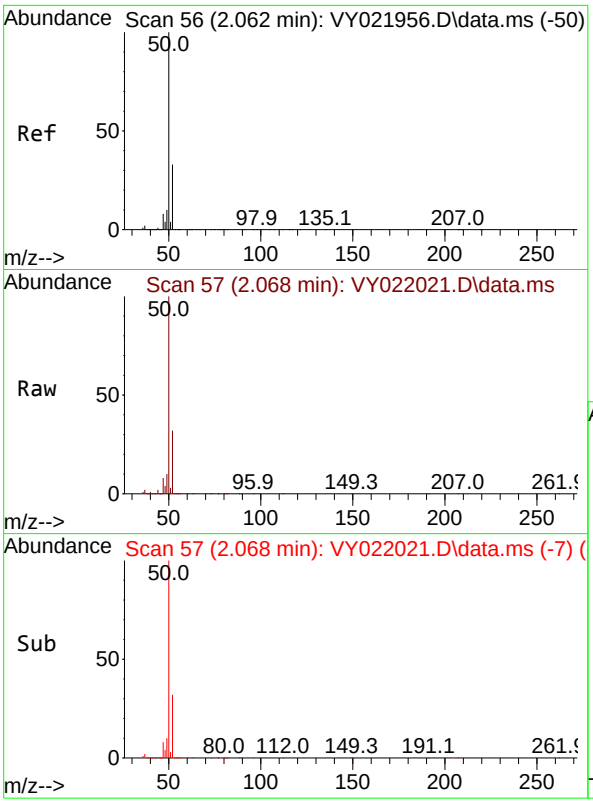


#2
Dichlorodifluoromethane
Concen: 42.991 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 85 Resp: 116076

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.6	49.7

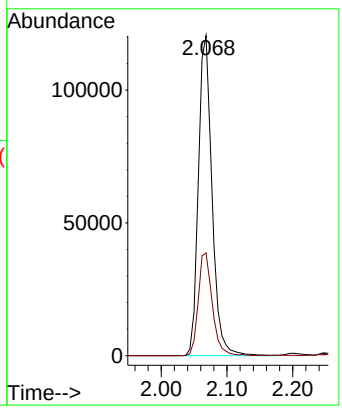




#3
Chloromethane
Concen: 45.163 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 50 Resp: 17363

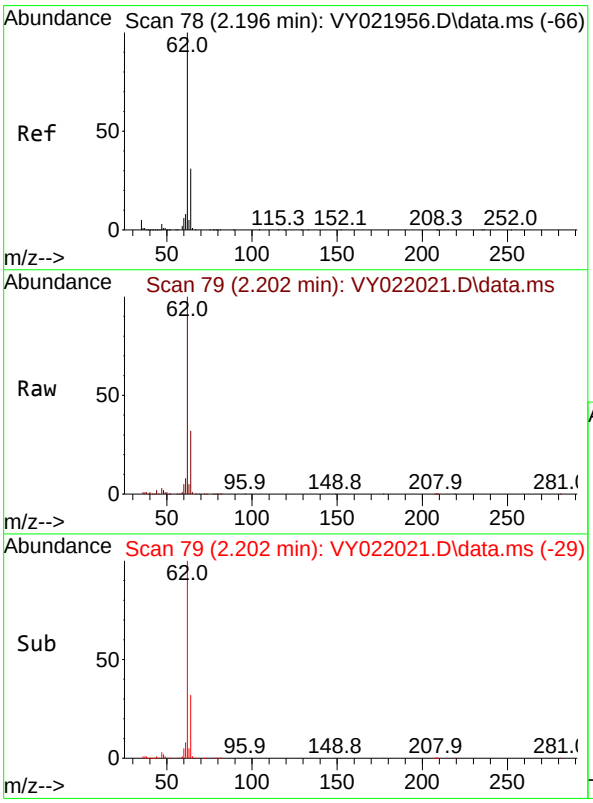
Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

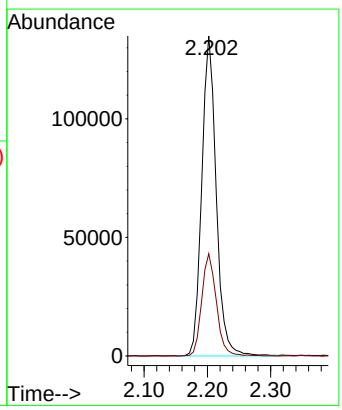
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

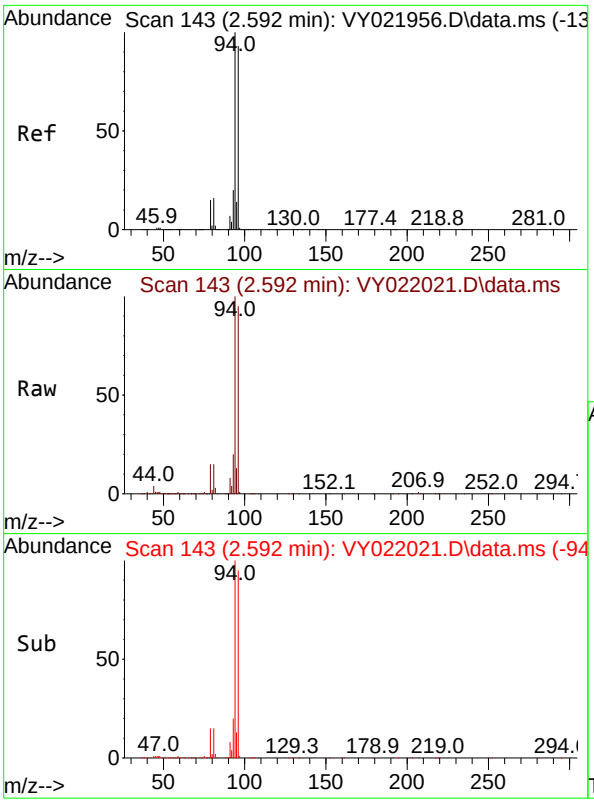


#4
Vinyl Chloride
Concen: 45.482 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 62 Resp: 214876

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.1	37.7





#5
Bromomethane
Concen: 41.794 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

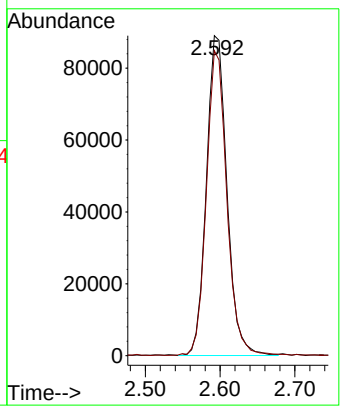
Tgt Ion: 94 Resp: 17011

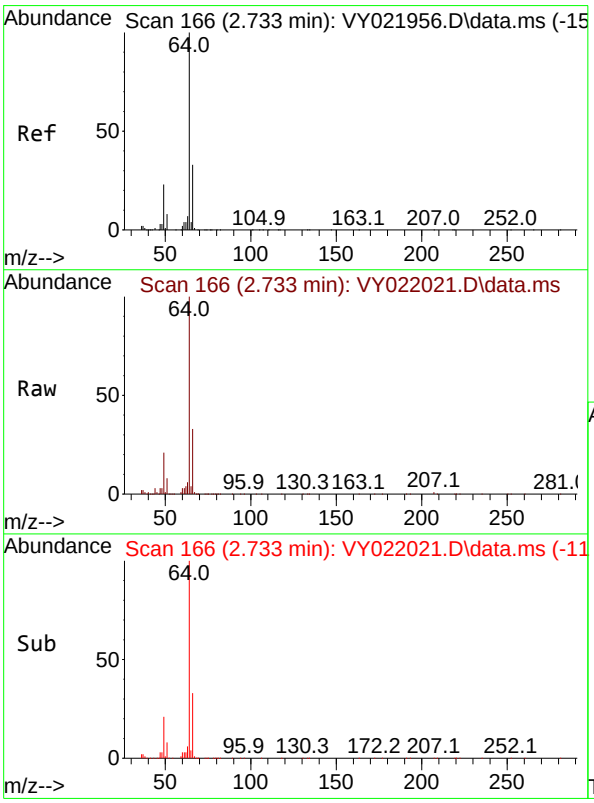
Ion	Ratio	Lower	Upper
94	100		
96	95.2	74.6	111.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

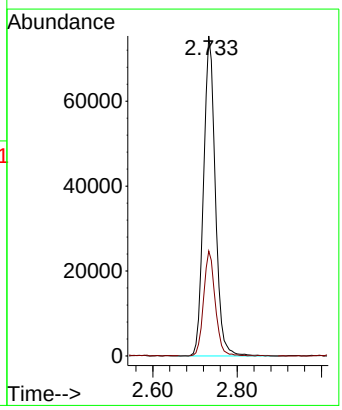


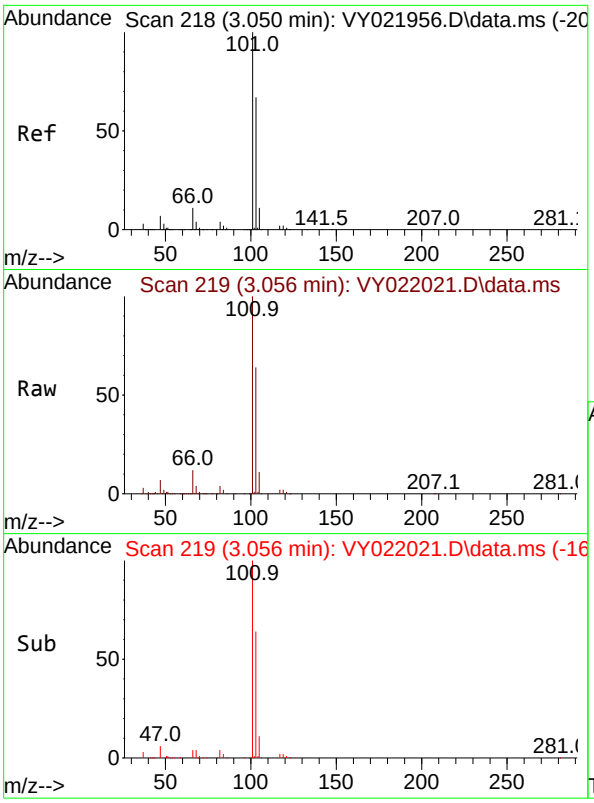


#6
Chloroethane
Concen: 45.558 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 64 Resp: 146584

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.2	39.4

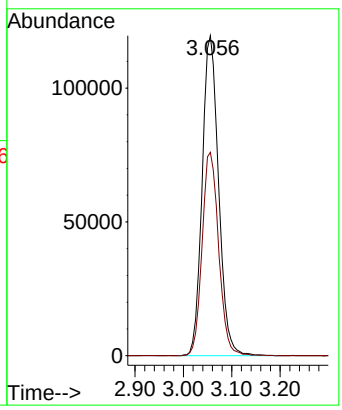




#7
Trichlorofluoromethane
Concen: 45.316 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:101 Resp: 28230(

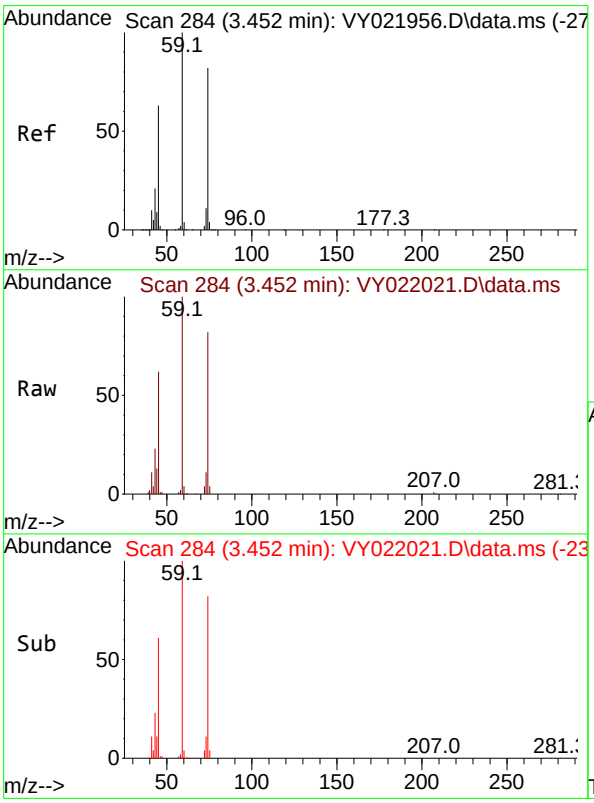
Ion	Ratio	Lower	Upper
101	100		
103	63.6	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

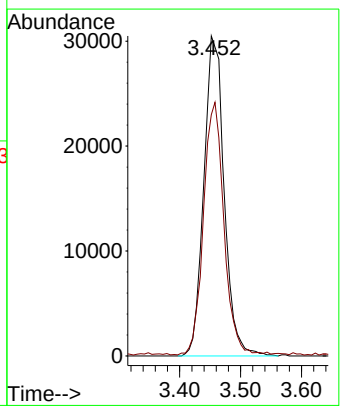
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

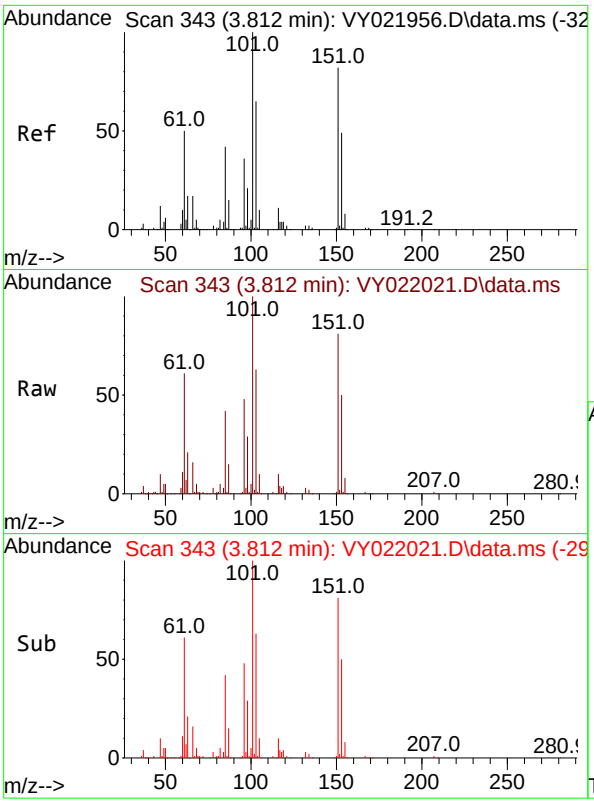


#8
Diethyl Ether
Concen: 43.651 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 74 Resp: 70779

Ion	Ratio	Lower	Upper
74	100		
45	79.4	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.780 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

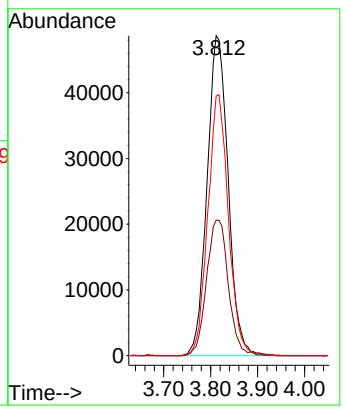
Tgt Ion:101 Resp: 15133

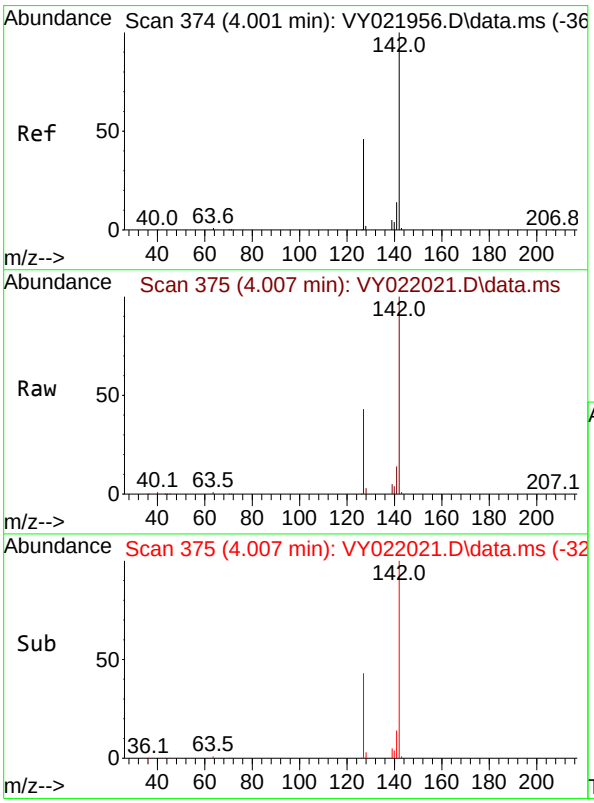
Ion	Ratio	Lower	Upper
101	100		
85	43.8	34.6	51.8
151	79.7	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

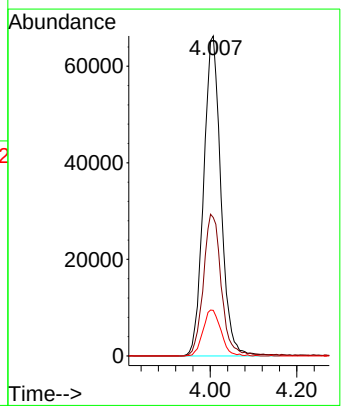


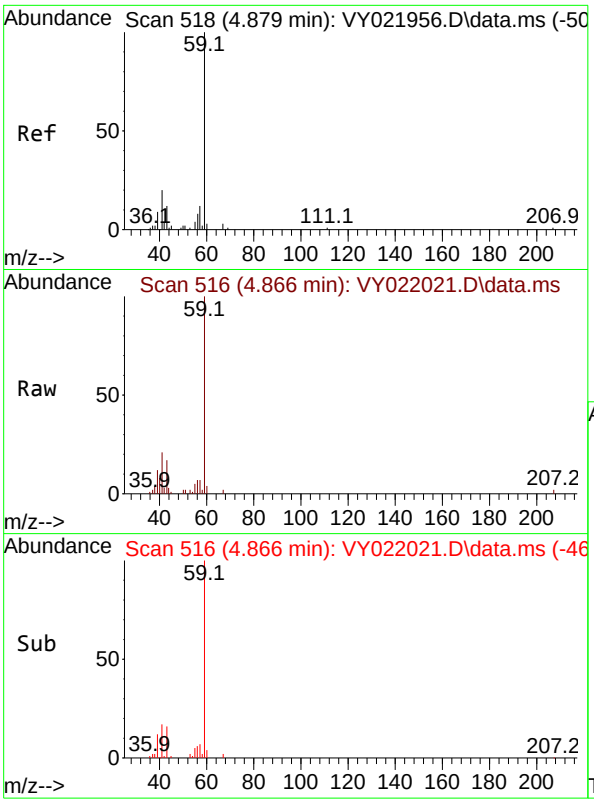


#10
Methyl Iodide
Concen: 46.967 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:142 Resp: 183769

Ion	Ratio	Lower	Upper
142	100		
127	46.0	36.2	54.2
141	14.9	11.7	17.5

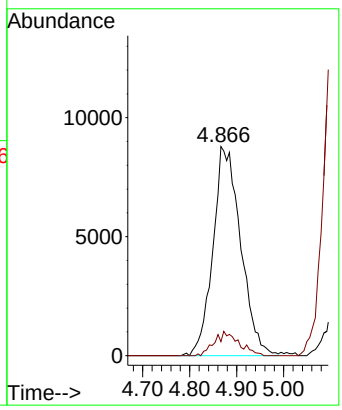




#11
Tert butyl alcohol
Concen: 223.960 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 59 Resp: 3598

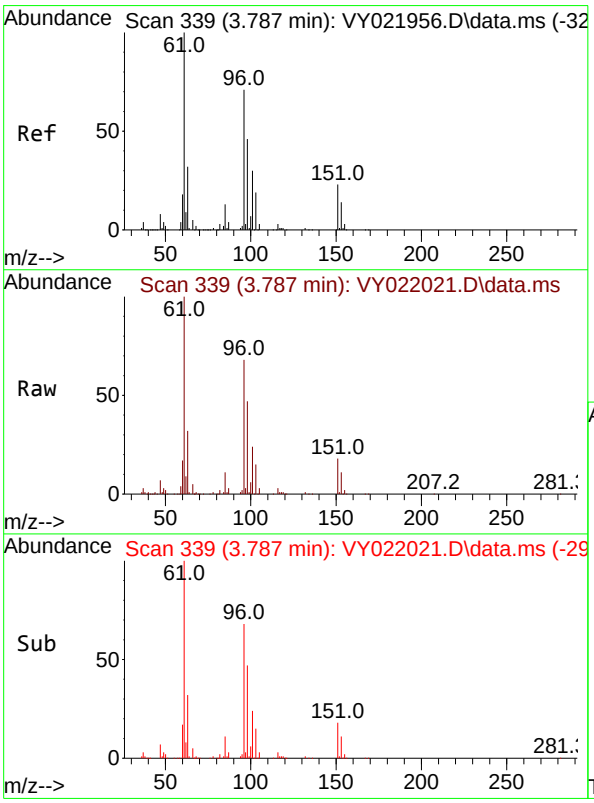
Ion	Ratio	Lower	Upper
59	100		
57	9.0	9.3	13.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

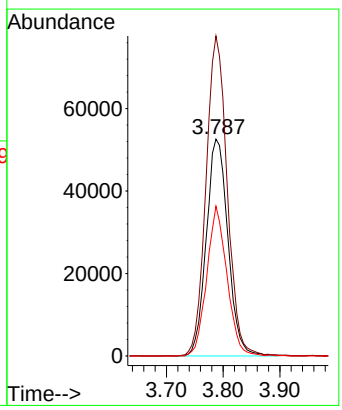
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

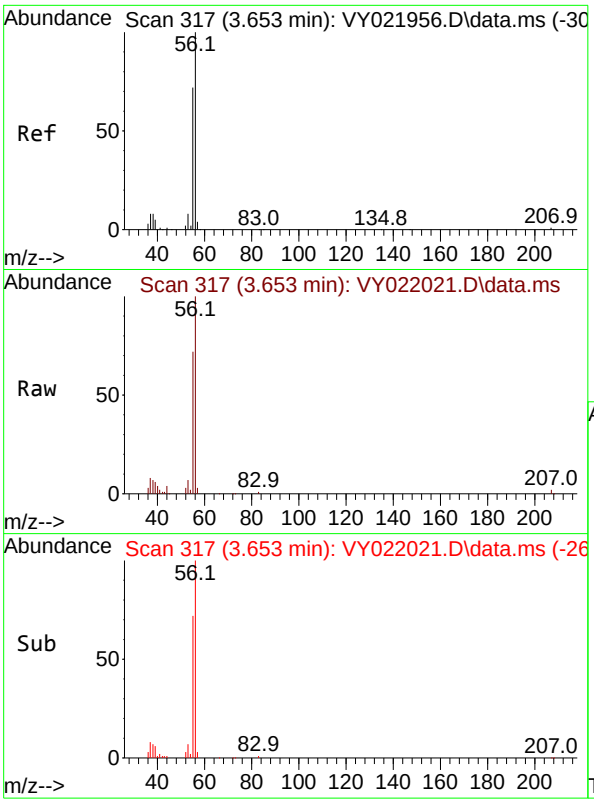


#12
1,1-Dichloroethene
Concen: 44.447 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 96 Resp: 140007

Ion	Ratio	Lower	Upper
96	100		
61	147.6	113.0	169.4
98	69.0	51.4	77.2

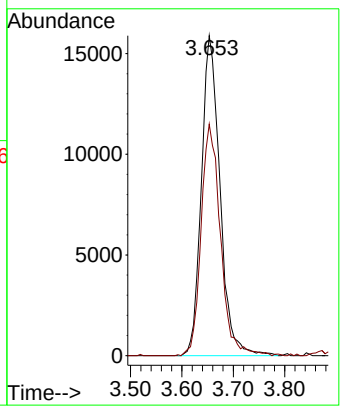




#13
Acrolein
Concen: 138.423 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 56 Resp: 3992

Ion	Ratio	Lower	Upper
56	100		
55	75.3	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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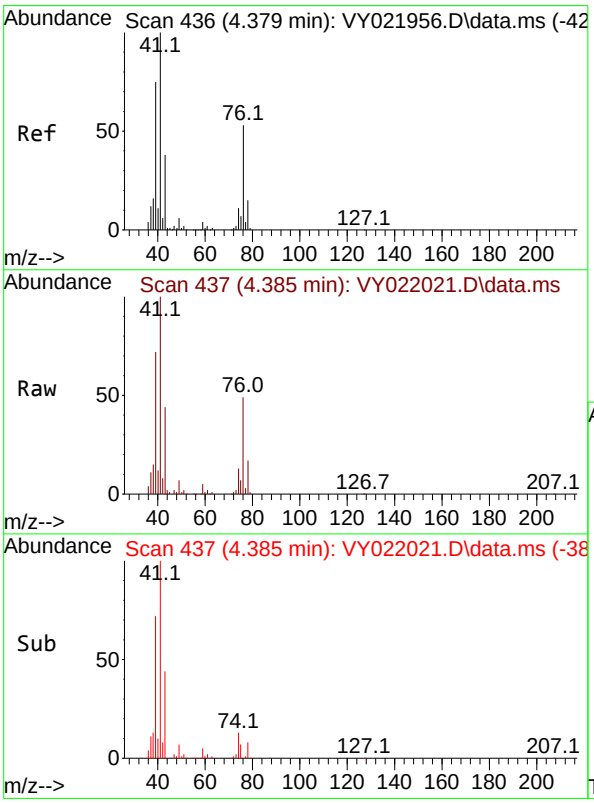
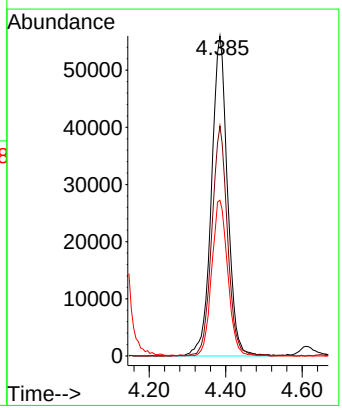
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

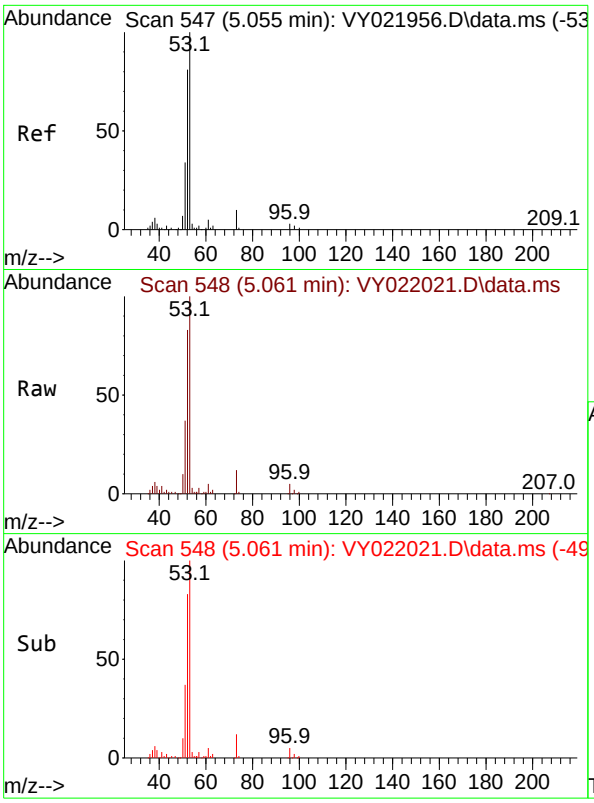


#14
Allyl chloride
Concen: 44.547 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 41 Resp: 163390

Ion	Ratio	Lower	Upper
41	100		
39	70.5	57.2	85.8
76	48.5	39.7	59.5





#15
Acrylonitrile
Concen: 229.455 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 53 Resp: 13620

Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.0	97.6
51	37.9	28.9	43.3

Instrument :
MSVOA_Y
ClientSampleId :
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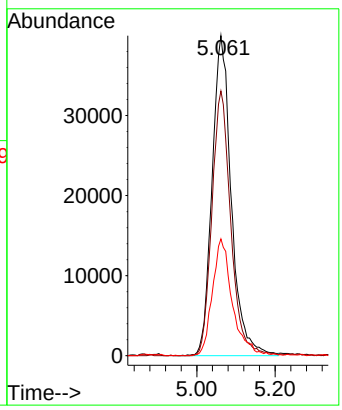
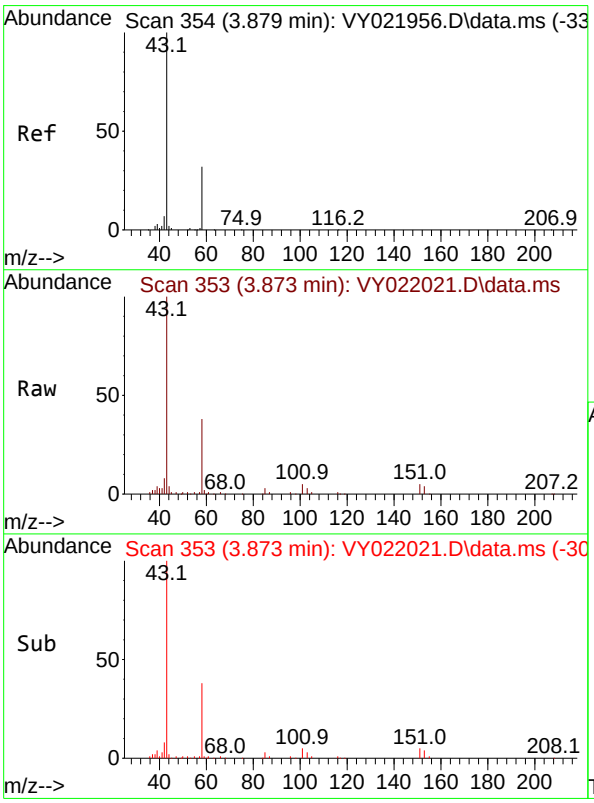
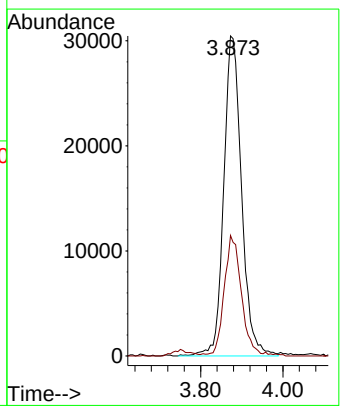


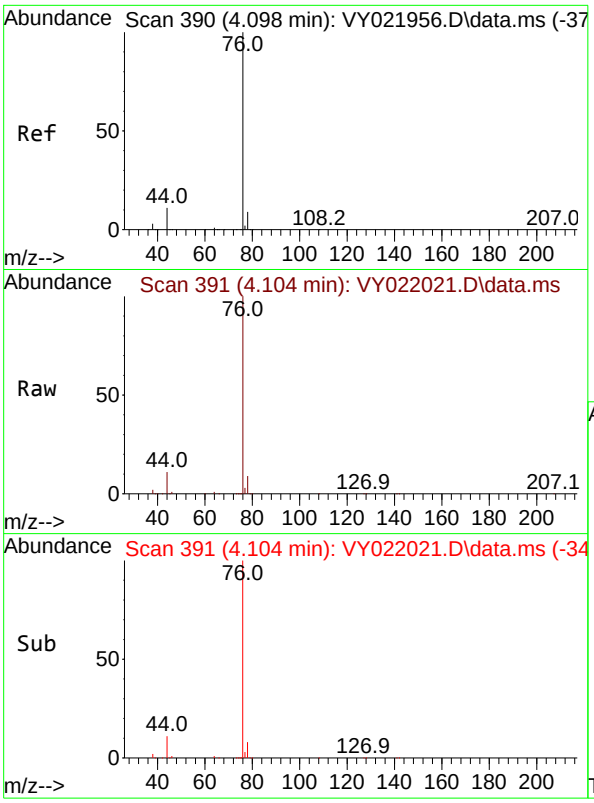


#16
Acetone
Concen: 238.658 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 91801

Ion	Ratio	Lower	Upper
43	100		
58	37.2	27.0	40.4





#17
Carbon Disulfide
Concen: 45.091 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 76 Resp: 45288

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.6	11.4

Instrument :
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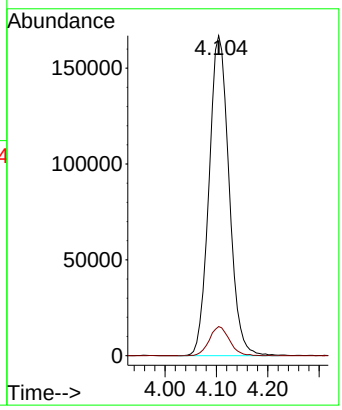
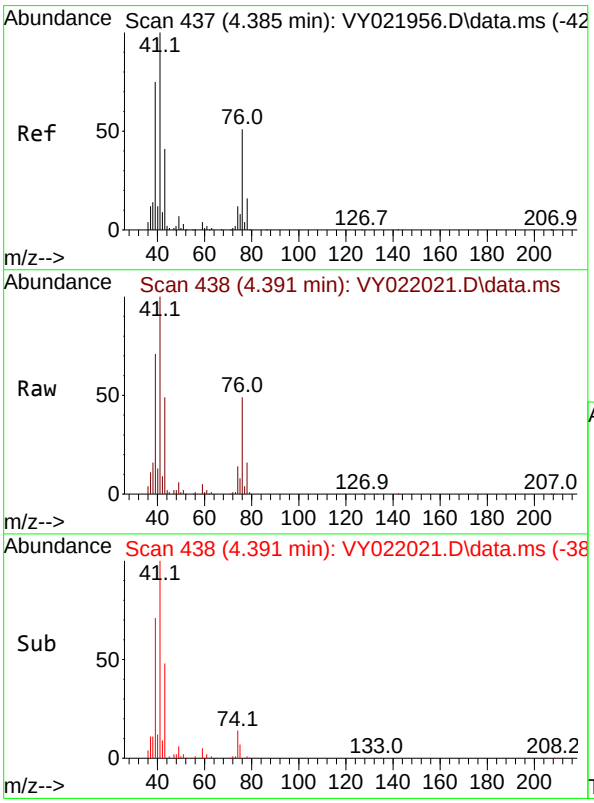
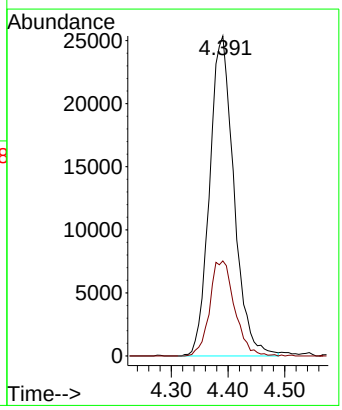


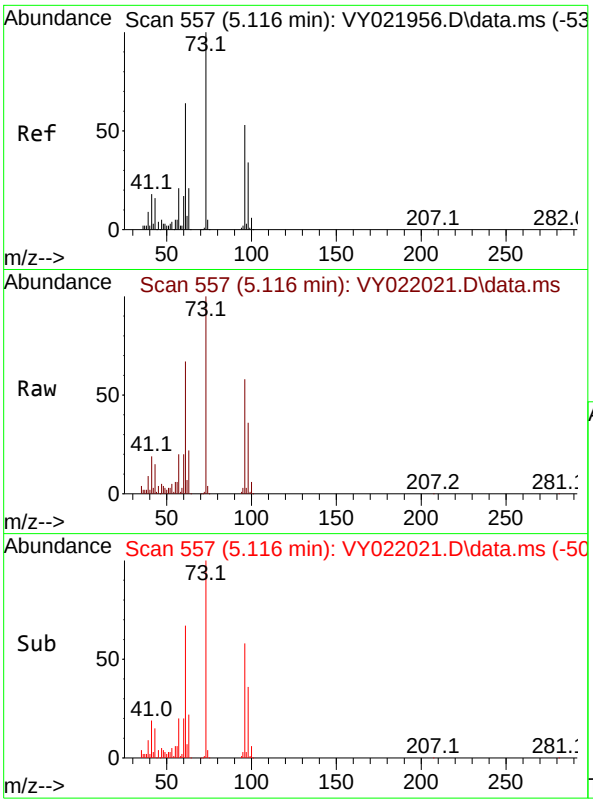


#18
Methyl Acetate
Concen: 55.156 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 75409

Ion	Ratio	Lower	Upper
43	100		
74	30.5	24.2	36.4

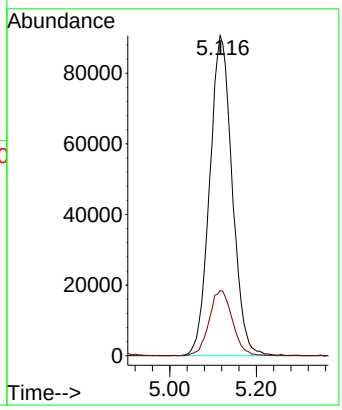




#19
Methyl tert-butyl Ether
Concen: 46.559 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 73 Resp: 32825

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.9	25.3



Instrument :
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ClientSampleId :
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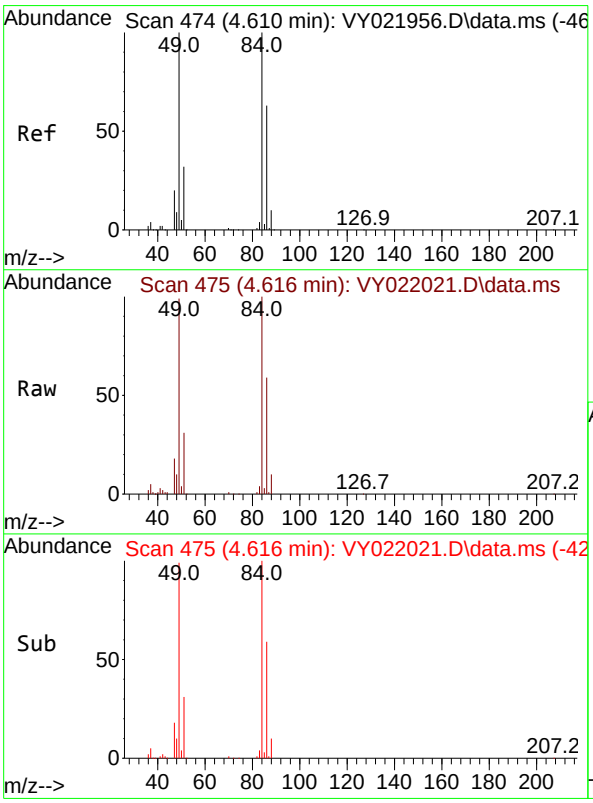
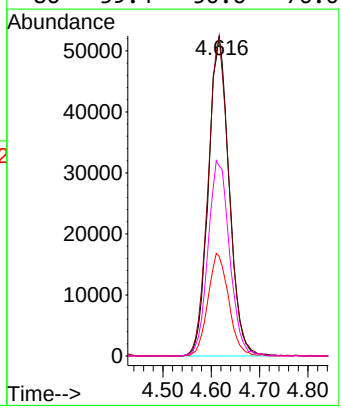
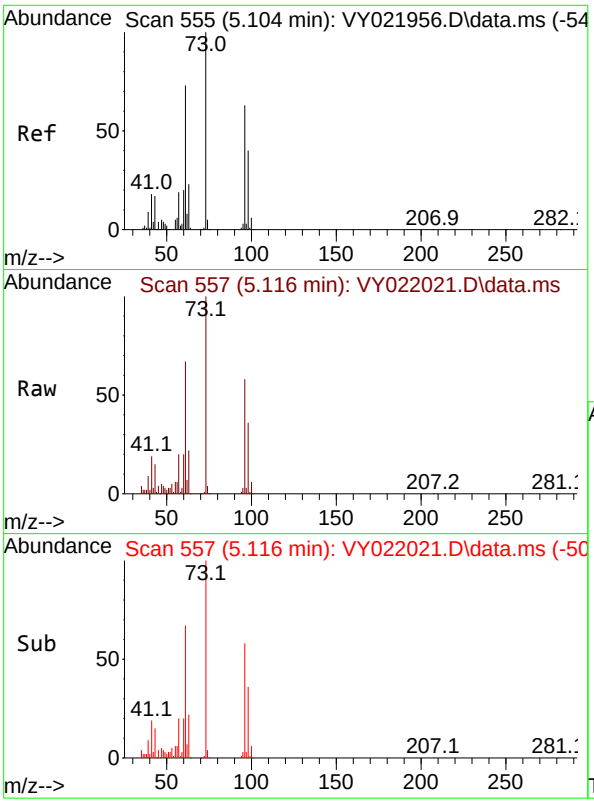


#20
Methylene Chloride
Concen: 42.205 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 84 Resp: 156196

Ion	Ratio	Lower	Upper
84	100		
49	99.3	79.9	119.9
51	31.2	25.4	38.0
86	59.4	50.6	76.0

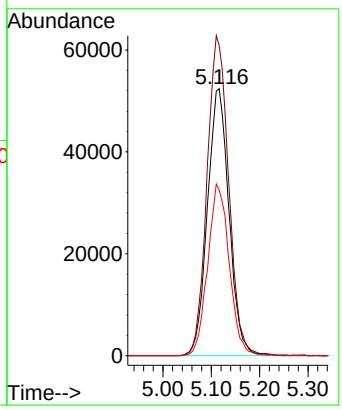




#21
trans-1,2-Dichloroethene
Concen: 46.106 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 96 Resp: 16265

Ion	Ratio	Lower	Upper
96	100		
61	116.2	92.6	138.8
98	62.1	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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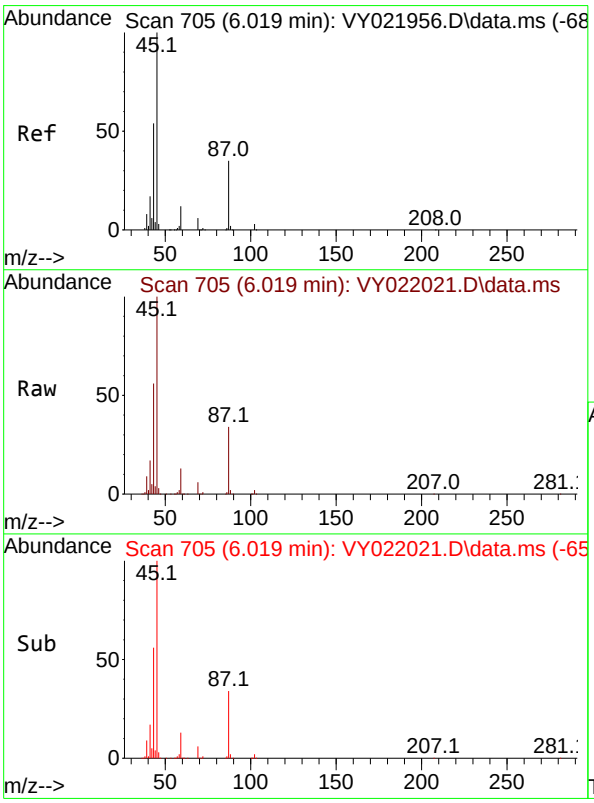
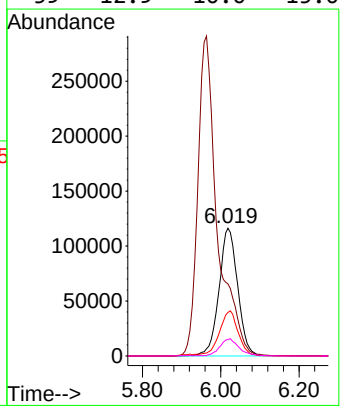
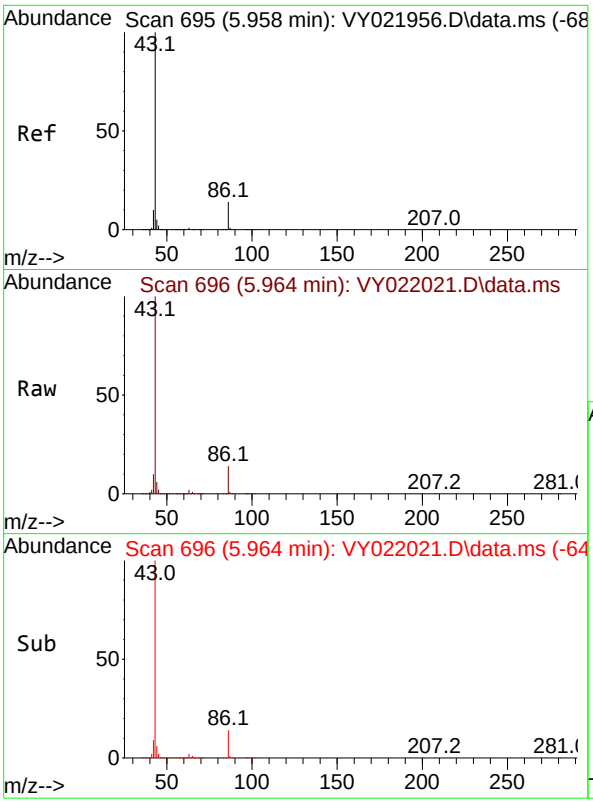


#22
Diisopropyl ether
Concen: 47.287 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 45 Resp: 385976

Ion	Ratio	Lower	Upper
45	100		
43	56.2	43.6	65.4
87	34.1	28.2	42.4
59	12.9	10.0	15.0

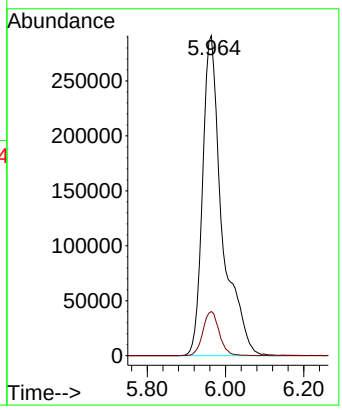




#23
Vinyl Acetate
Concen: 229.383 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 100904

Ion	Ratio	Lower	Upper
43	100		
86	13.8	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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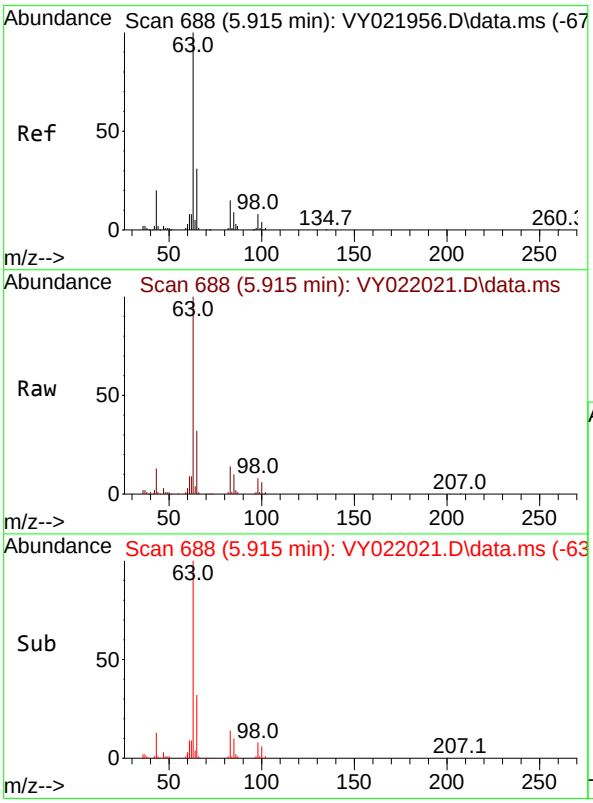
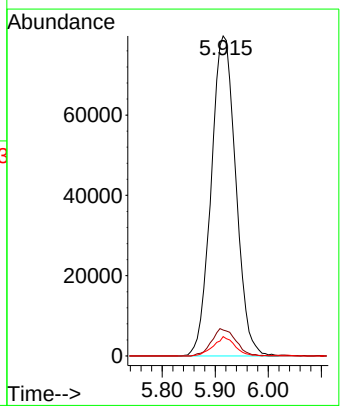
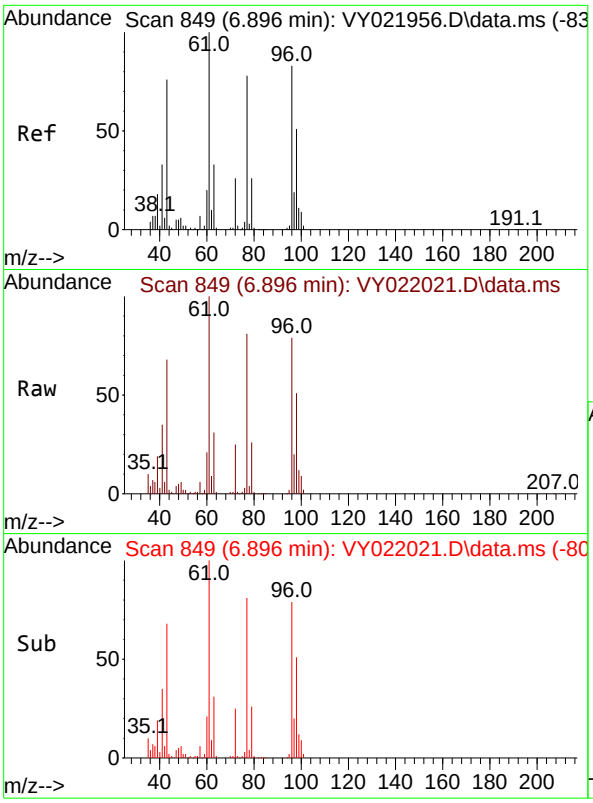


#24
1,1-Dichloroethane
Concen: 45.472 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 63 Resp: 257272

Ion	Ratio	Lower	Upper
63	100		
98	8.1	4.0	11.9
100	6.1	2.0	6.0#





#25
2-Butanone
Concen: 227.698 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 15191

Ion	Ratio	Lower	Upper
43	100		
72	36.2	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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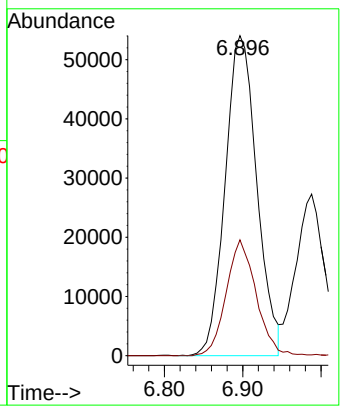
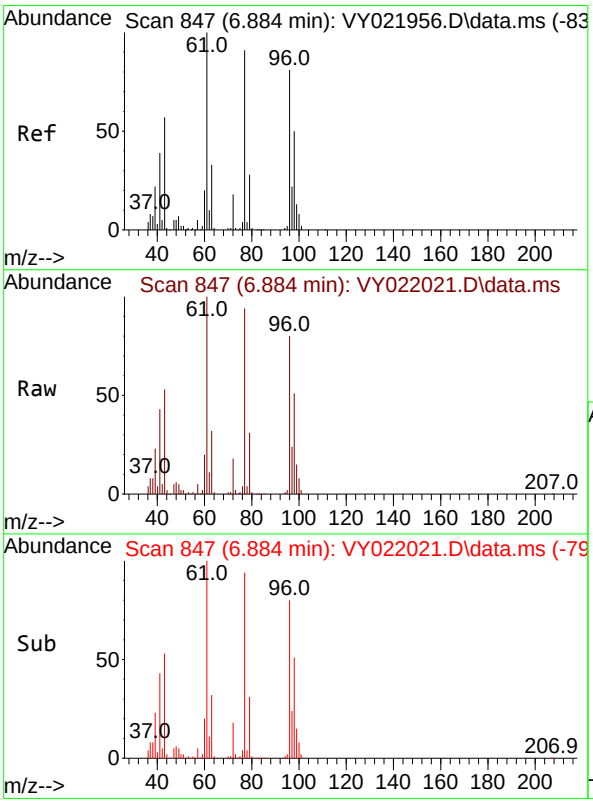
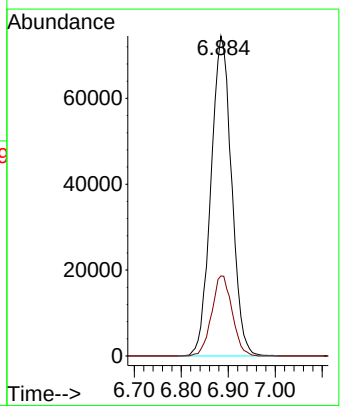


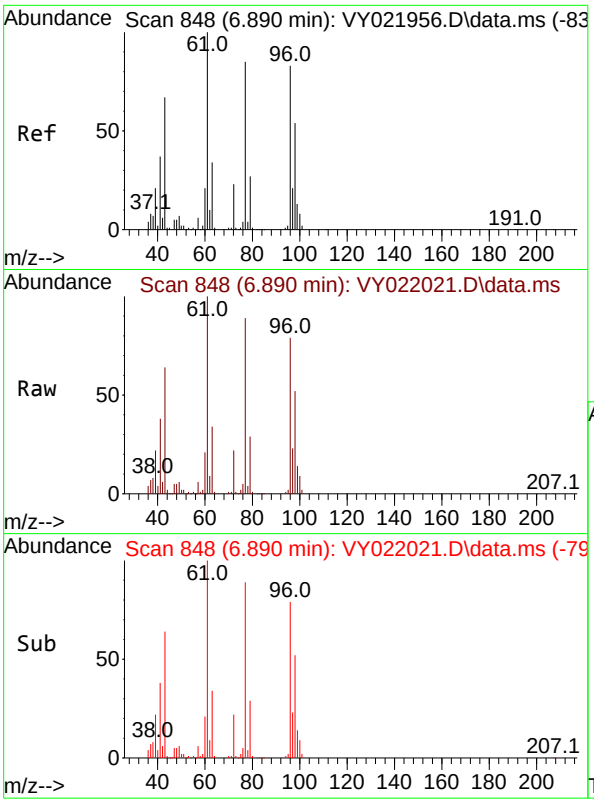


#26
2,2-Dichloropropane
Concen: 45.744 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 77 Resp: 226836

Ion	Ratio	Lower	Upper
77	100		
97	24.9	12.4	37.4





#27
cis-1,2-Dichloroethene
Concen: 45.895 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 96 Resp: 18103

Ion	Ratio	Lower	Upper
96	100		
61	125.4	0.0	251.4
98	64.2	0.0	128.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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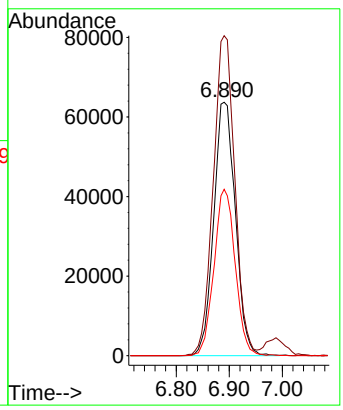
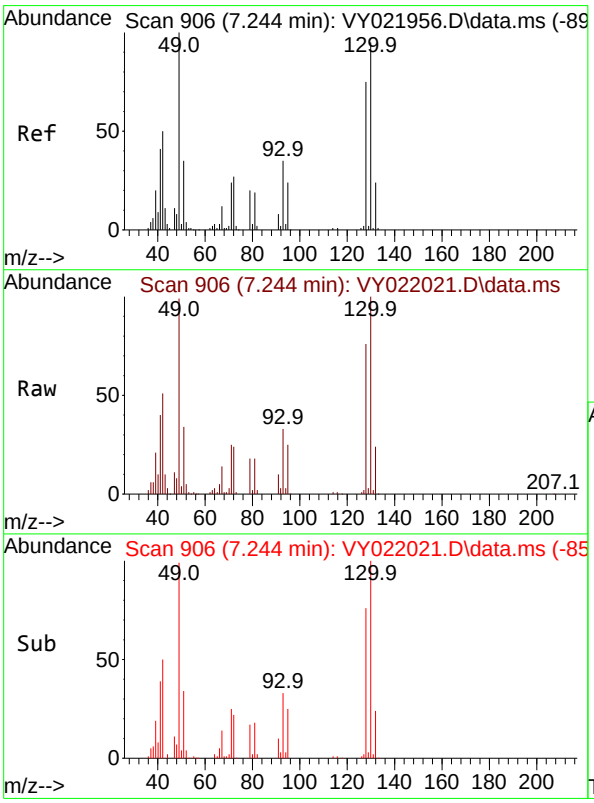
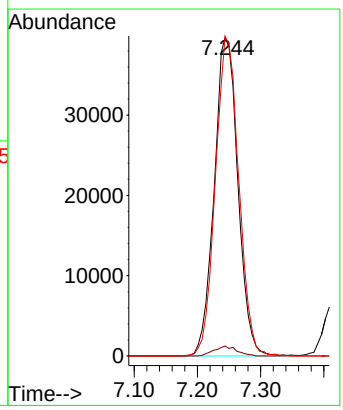


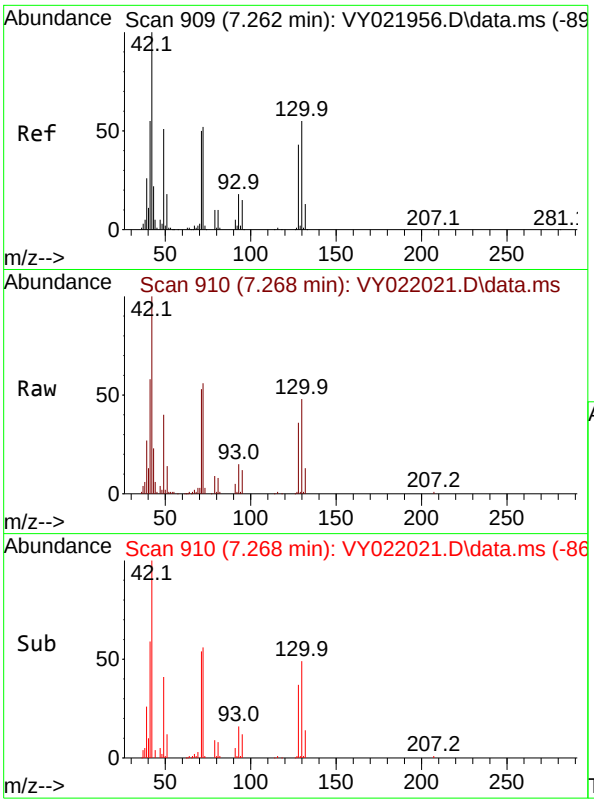


#28
Bromochloromethane
Concen: 46.794 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 49 Resp: 102834

Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	5.0
130	99.2	78.2	117.4

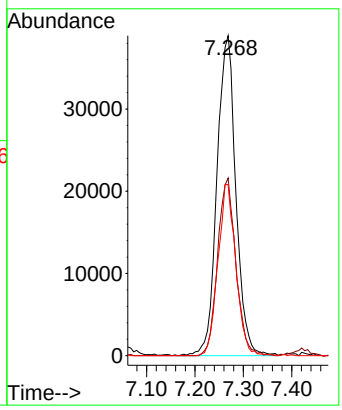




#29
Tetrahydrofuran
Concen: 244.304 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 42 Resp: 10585

Ion	Ratio	Lower	Upper
42	100		
72	53.4	42.6	63.8
71	50.7	40.6	61.0



Instrument :
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ClientSampleId :
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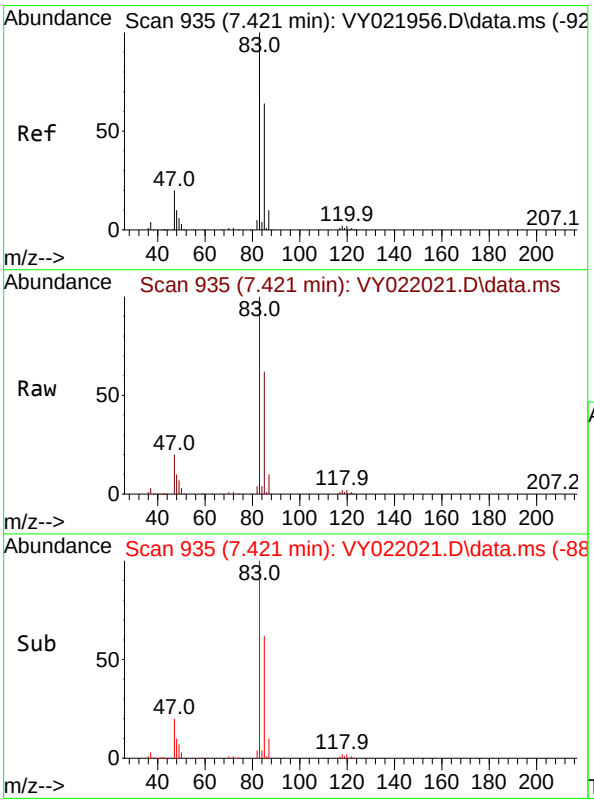
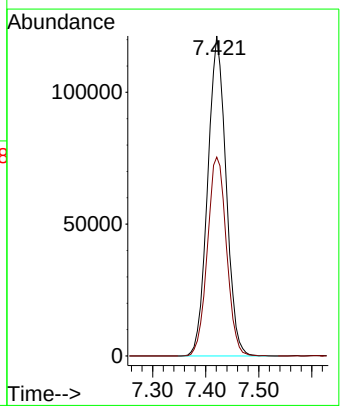
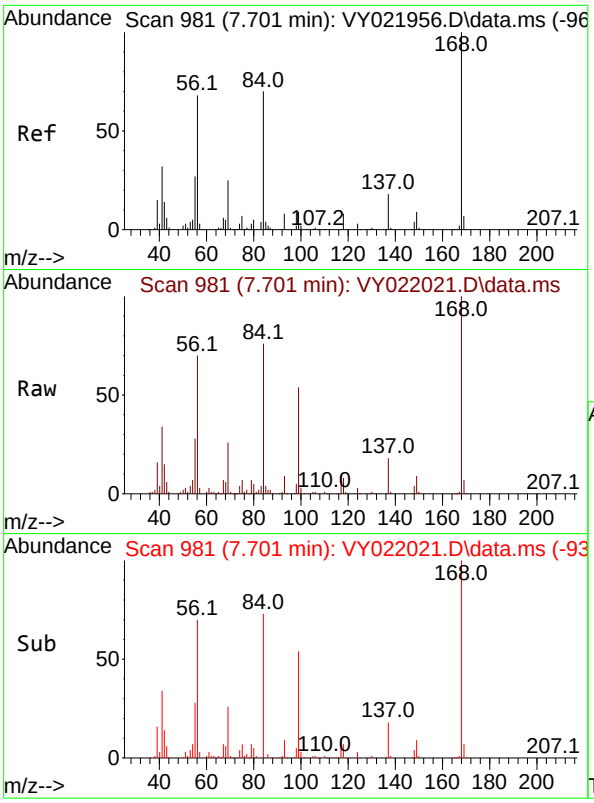


#30
Chloroform
Concen: 46.592 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 83 Resp: 292396

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.3	76.9

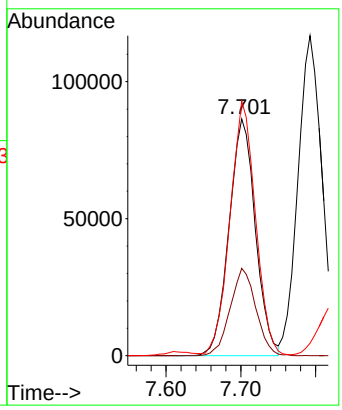




#31
Cyclohexane
Concen: 43.769 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 56 Resp: 21176

Ion	Ratio	Lower	Upper
56	100		
69	36.9	29.4	44.2
84	105.9	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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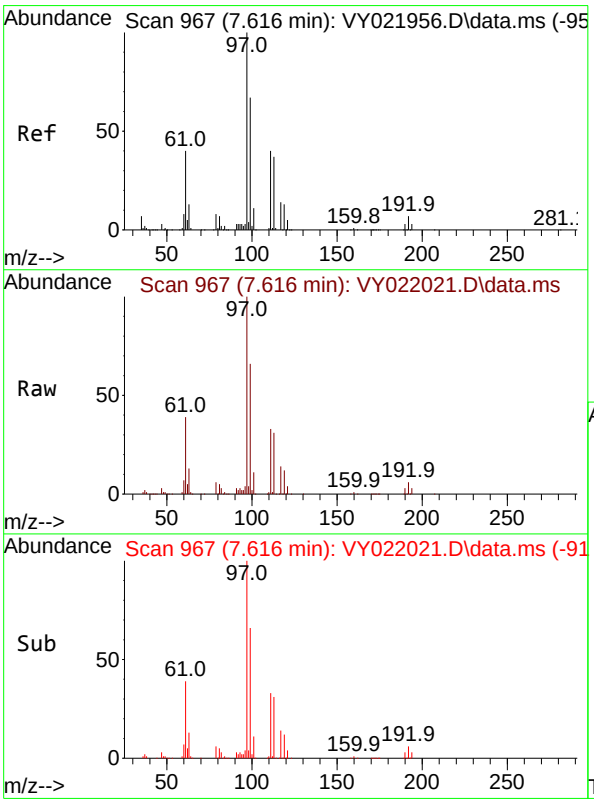
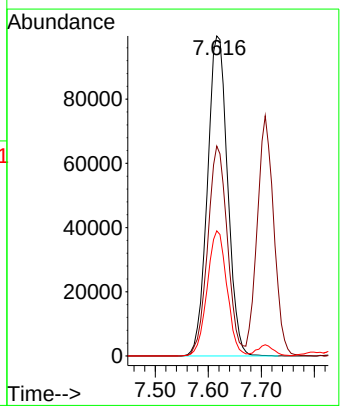
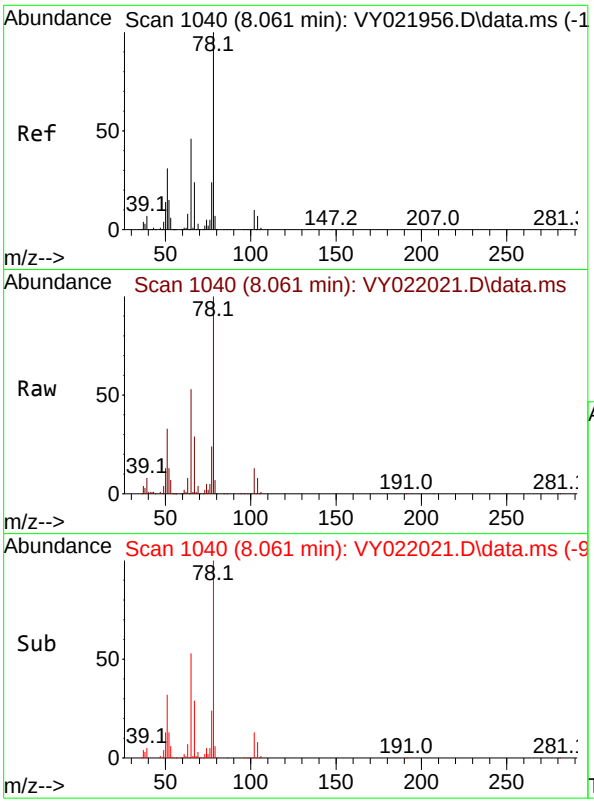


#32
1,1,1-Trichloroethane
Concen: 46.308 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 97 Resp: 262924

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.2
61	38.4	31.4	47.2





#33
1,2-Dichloroethane-d4
Concen: 45.703 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 65 Resp: 13376

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	105.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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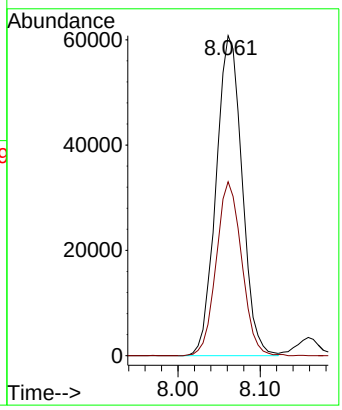
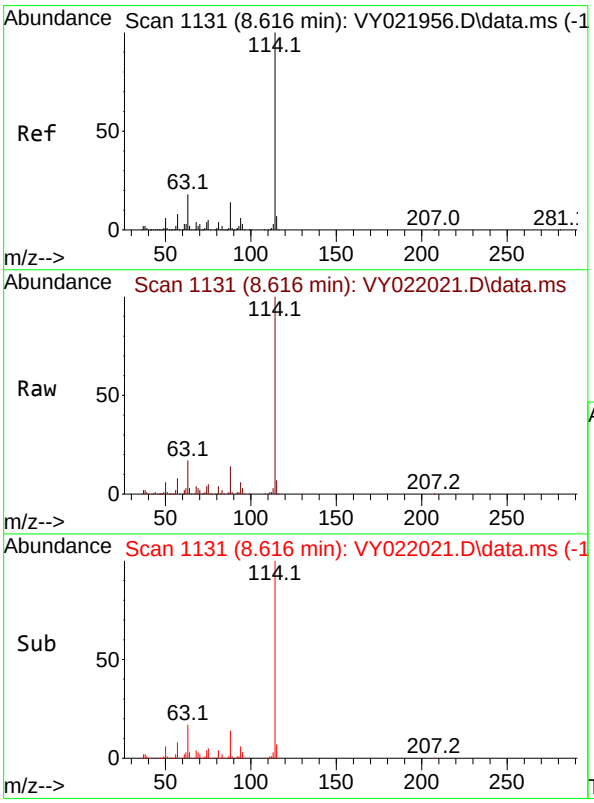
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

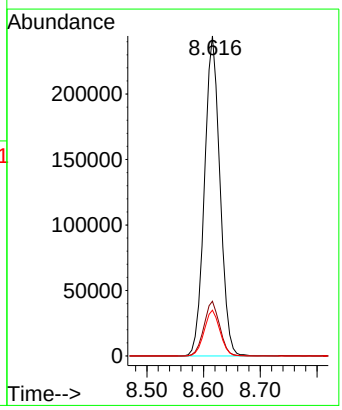


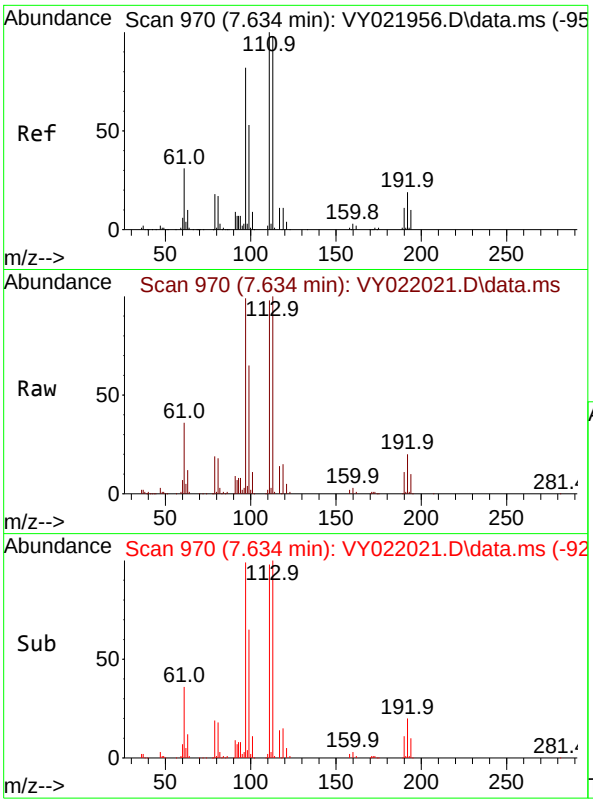


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:114 Resp: 463292

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	35.4
88	14.3	0.0	28.2

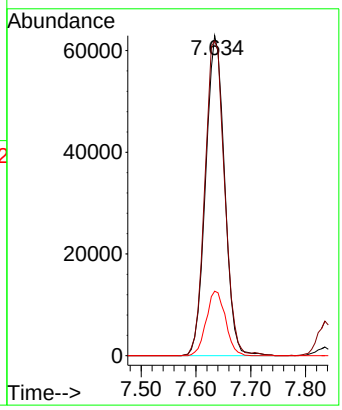




#35
Dibromofluoromethane
Concen: 49.299 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:113 Resp: 15089

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	20.5	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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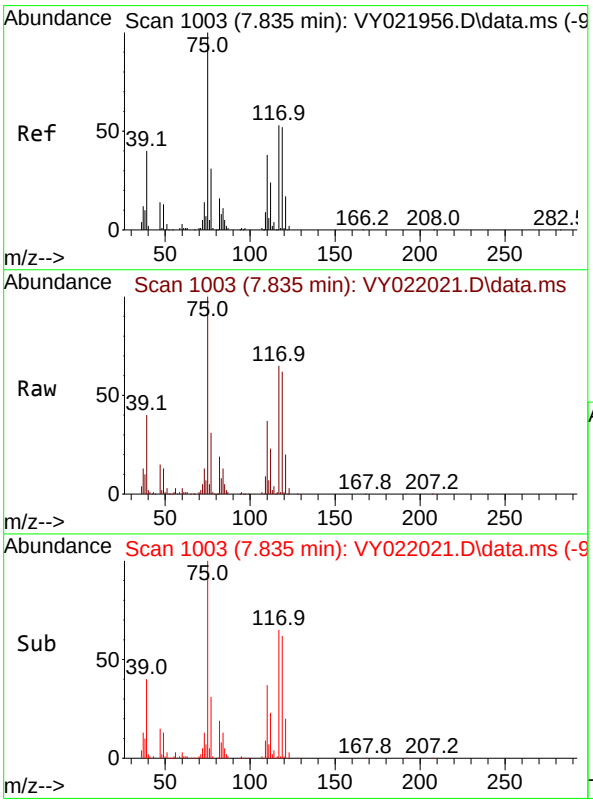
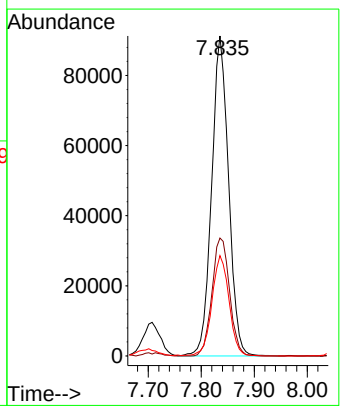
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

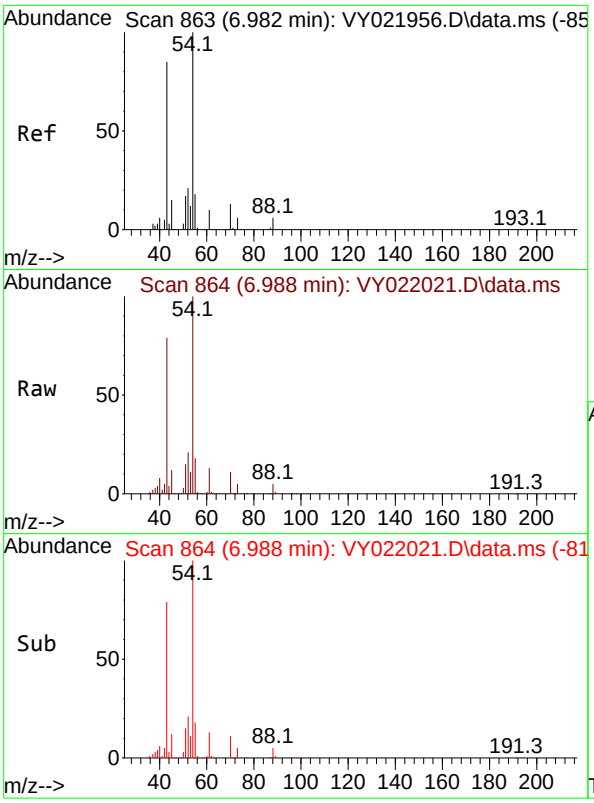


#36
1,1-Dichloropropene
Concen: 49.257 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 75 Resp: 202515

Ion	Ratio	Lower	Upper
75	100		
110	38.3	19.1	57.3
77	31.8	25.5	38.3

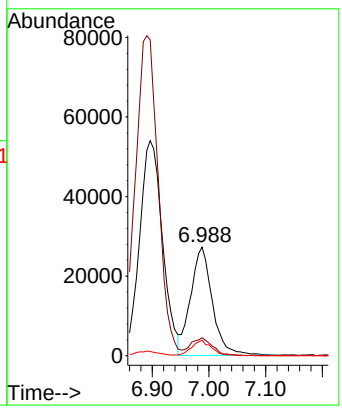




#37
Ethyl Acetate
Concen: 49.244 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 7271

Ion	Ratio	Lower	Upper
43	100		
61	16.6	13.8	20.6
70	13.1	9.2	13.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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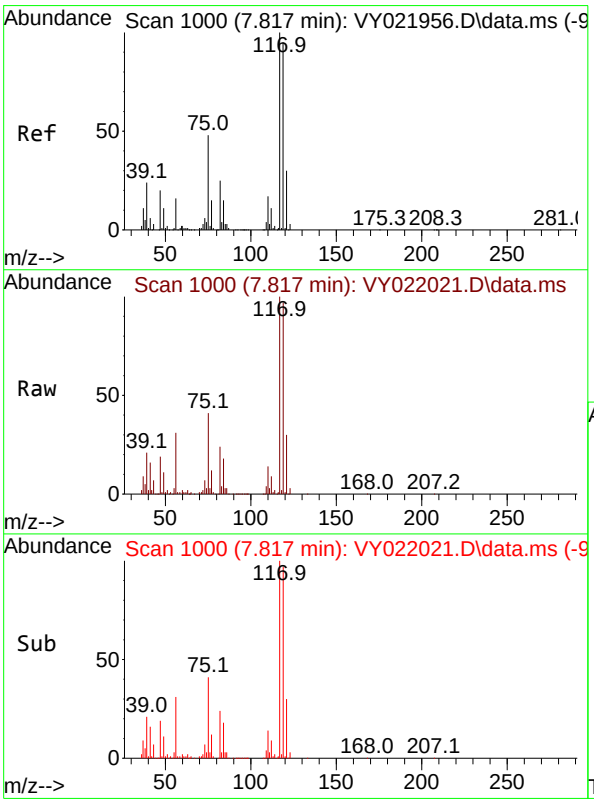
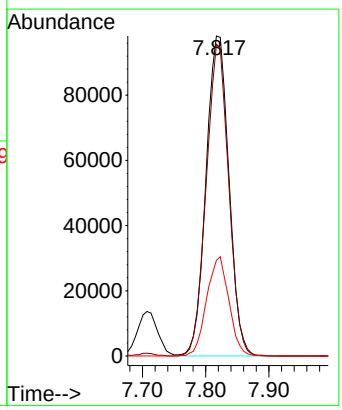
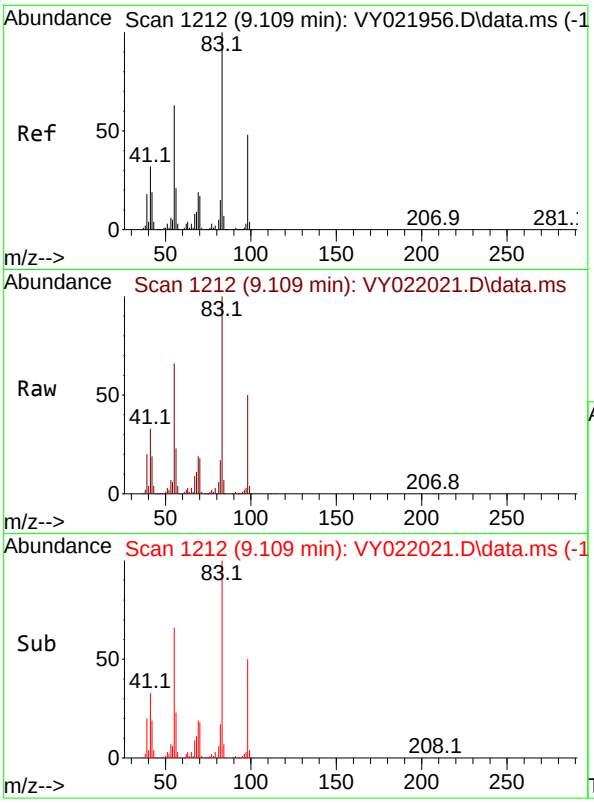


#38
Carbon Tetrachloride
Concen: 50.250 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:117 Resp: 246873

Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.2	114.4
121	29.9	24.0	36.0





#39
Methylcyclohexane
Concen: 47.952 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 83 Resp: 24810

Ion	Ratio	Lower	Upper
83	100		
55	66.0	50.6	75.8
98	50.3	38.6	58.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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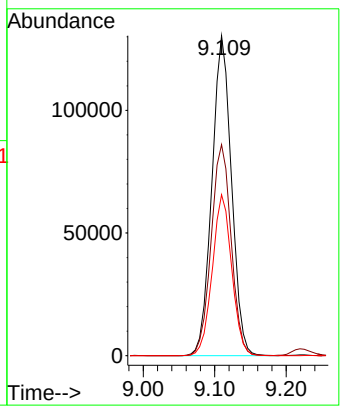
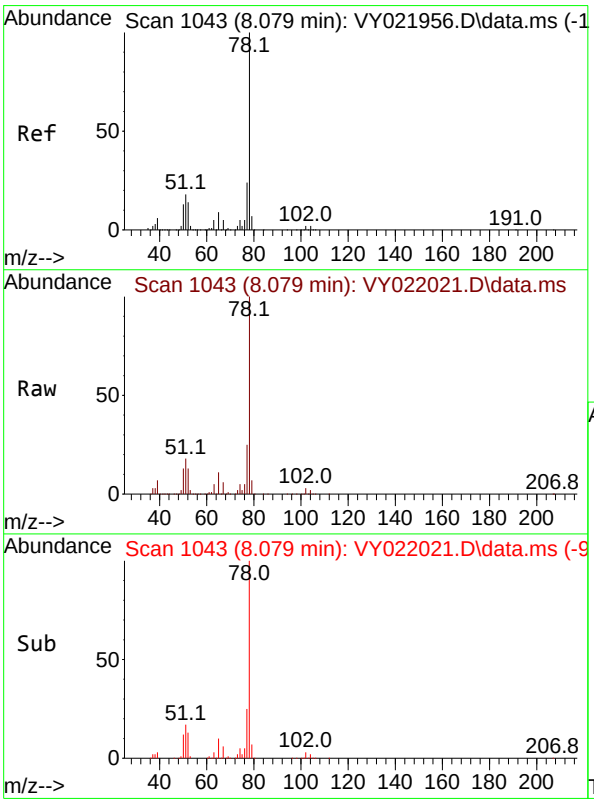
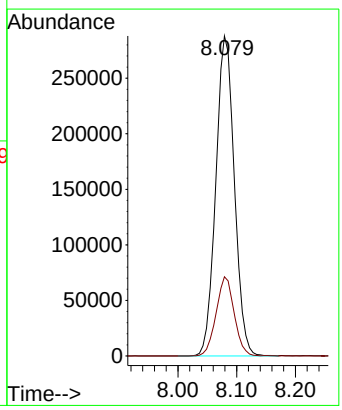


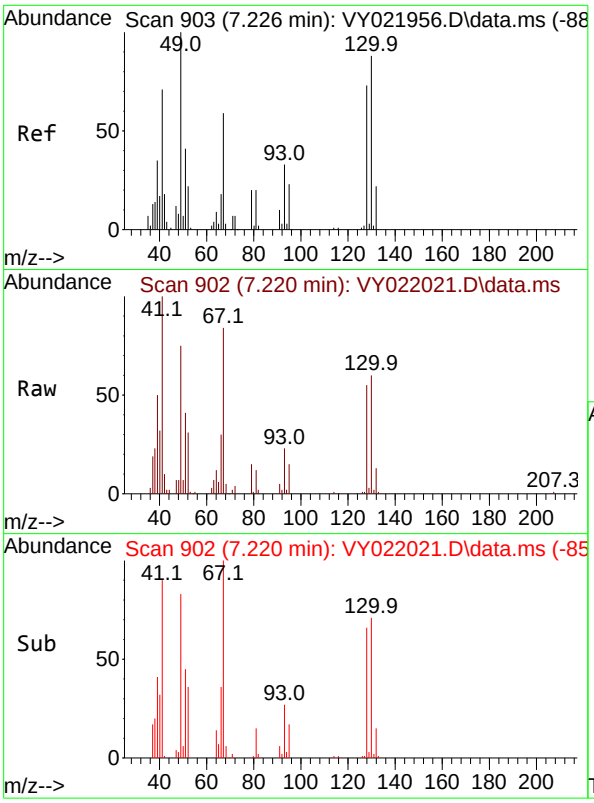


#40
Benzene
Concen: 49.146 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 78 Resp: 631630

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9

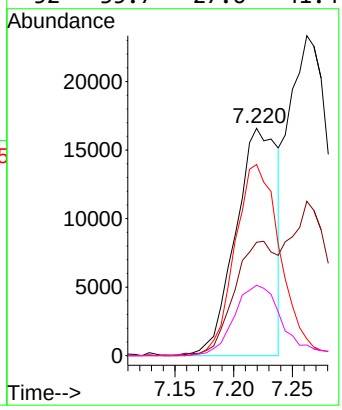




#41
Methacrylonitrile
Concen: 50.745 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 41 Resp: 4096

Ion	Ratio	Lower	Upper
41	100		
39	51.7	36.6	55.0
67	92.5	72.2	108.4
52	35.7	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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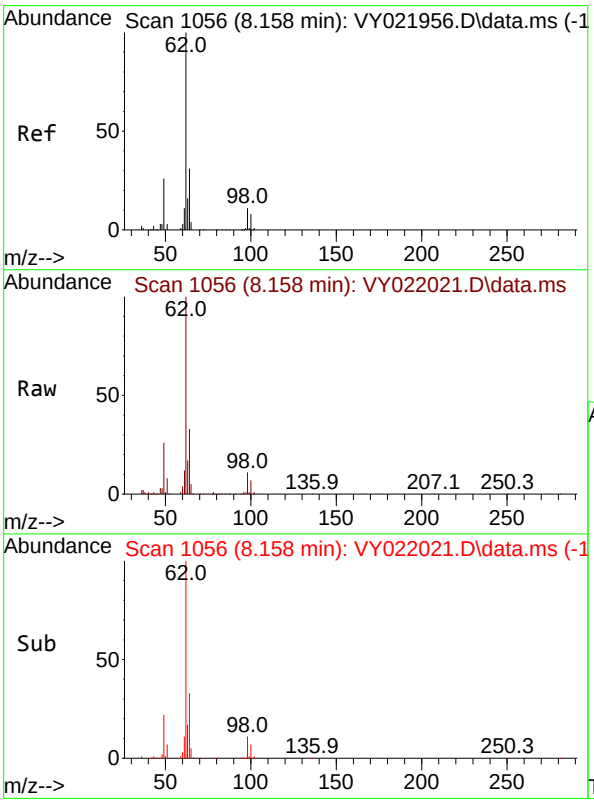
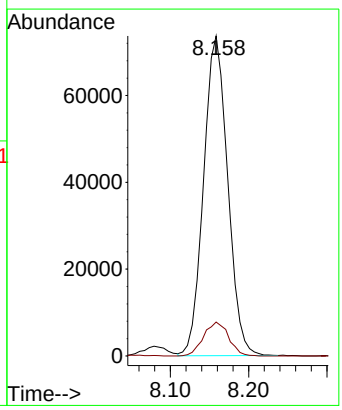
Supervised By :Mahesh Dadoda 04/29/2025

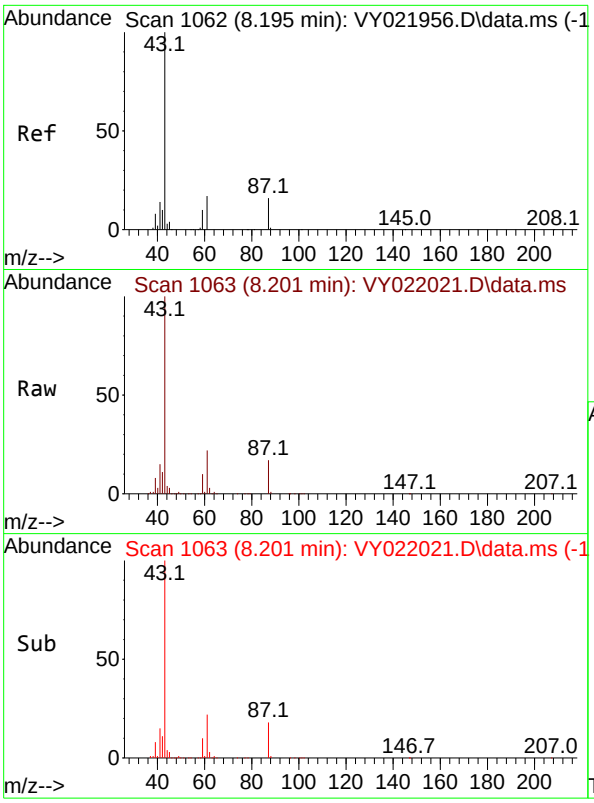


#42
1,2-Dichloroethane
Concen: 49.487 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 62 Resp: 157468

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	22.0

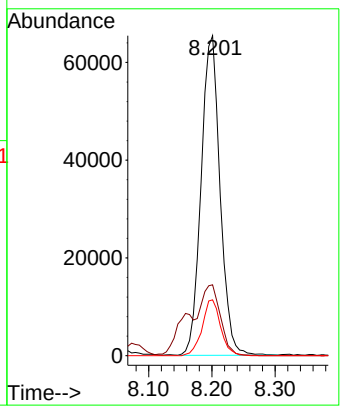




#43
Isopropyl Acetate
Concen: 48.136 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 13650

Ion	Ratio	Lower	Upper
43	100		
61	23.9	18.9	28.3
87	17.0	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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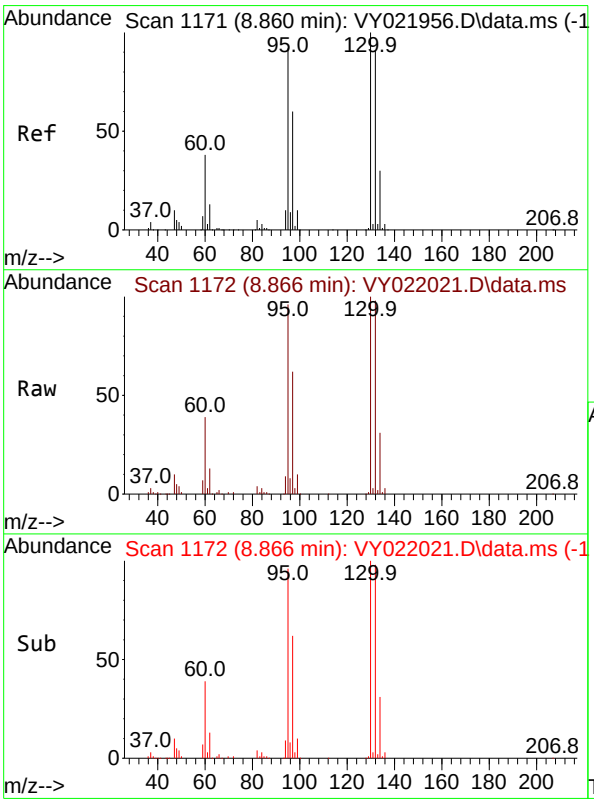
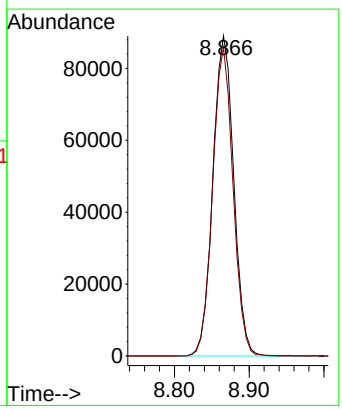
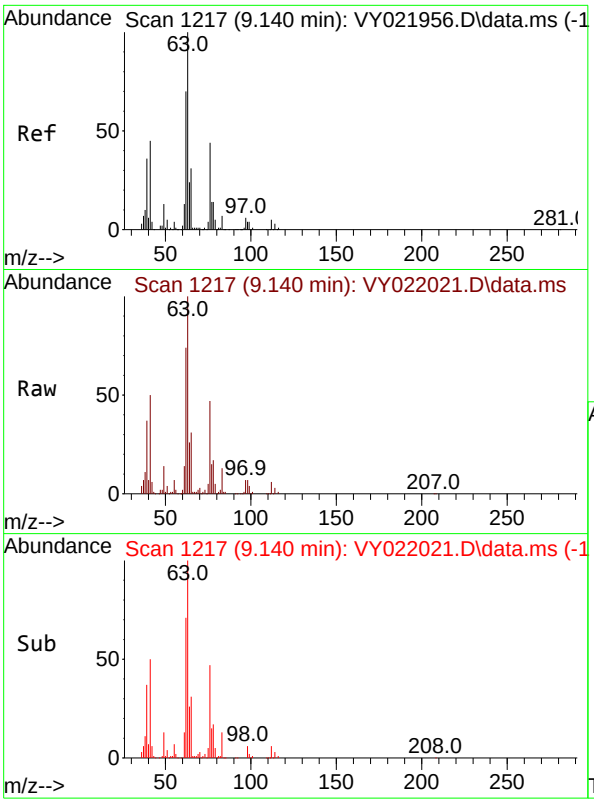


#44
Trichloroethene
Concen: 48.422 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:130 Resp: 172375

Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	183.2





#45
1,2-Dichloropropane
Concen: 49.124 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 63 Resp: 13962

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.2	37.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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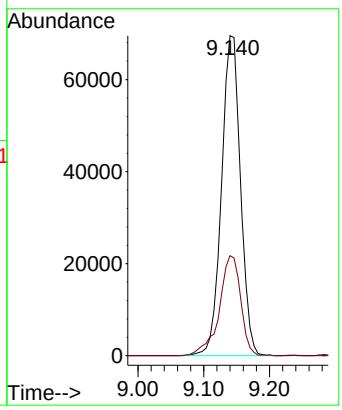
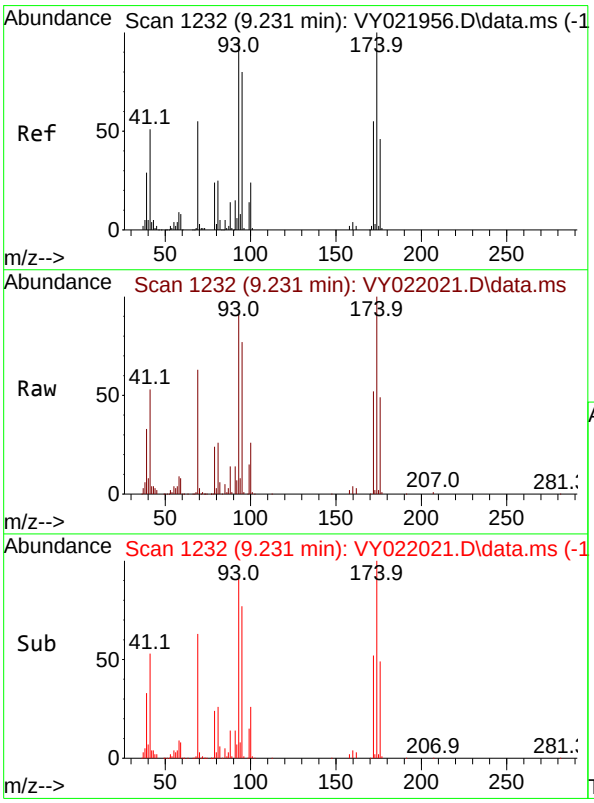
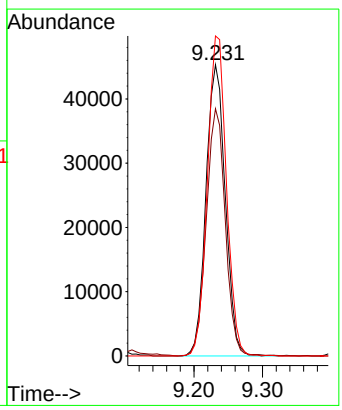


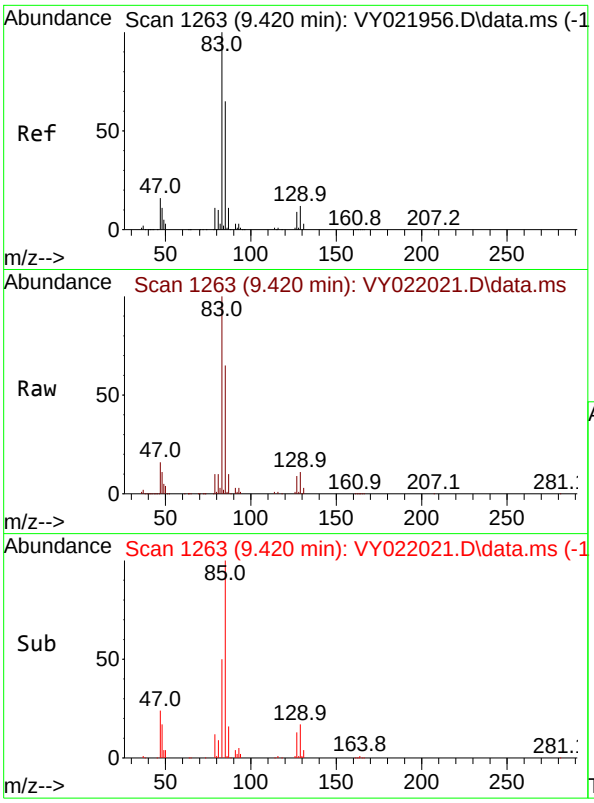


#46
Dibromomethane
Concen: 49.917 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 93 Resp: 88811

Ion	Ratio	Lower	Upper
93	100		
95	83.3	66.7	100.1
174	108.5	84.6	127.0





#47
Bromodichloromethane
Concen: 50.140 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 83 Resp: 22285

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.8
127	8.7	7.0	10.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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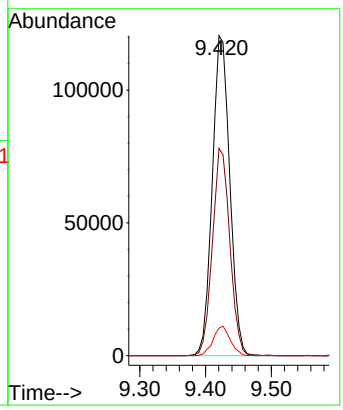
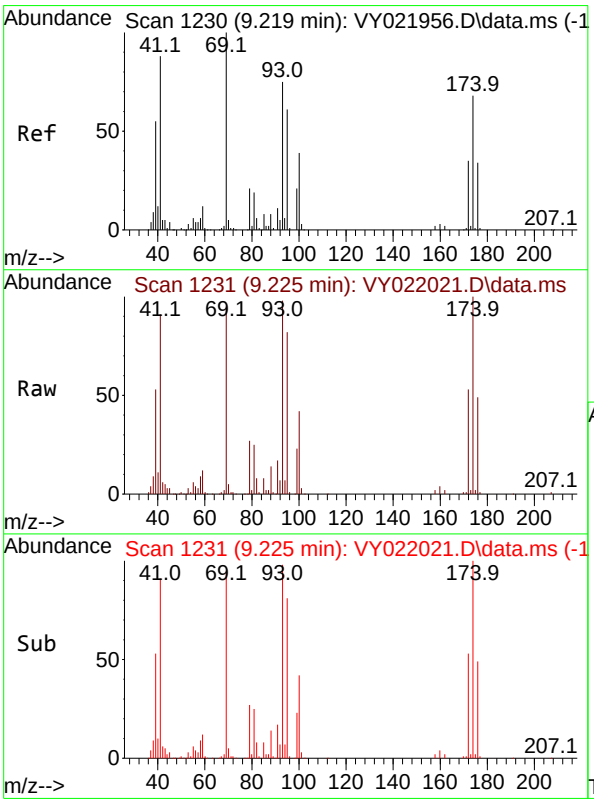
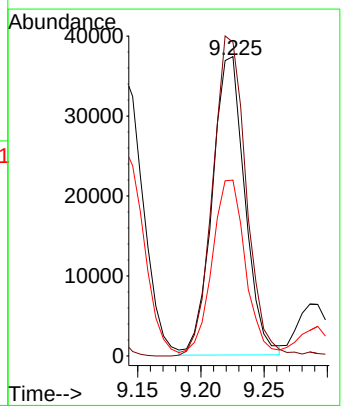


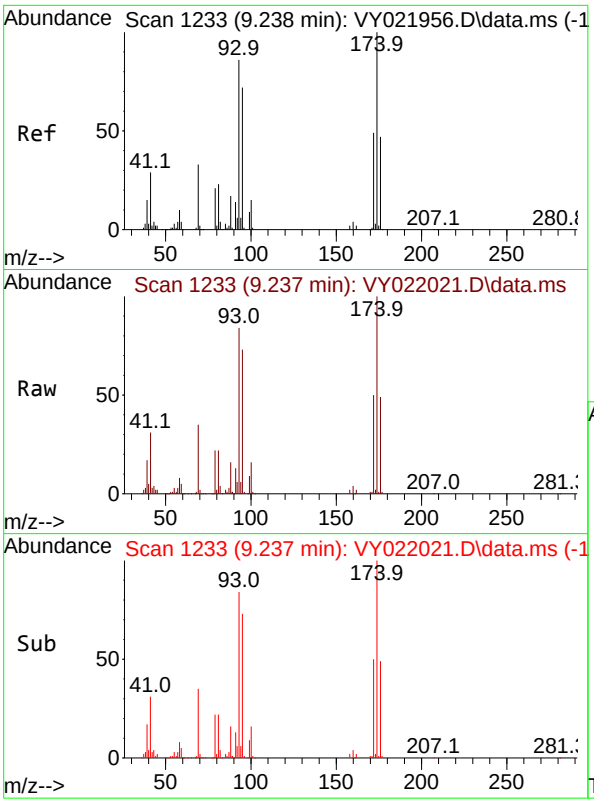


#48
Methyl methacrylate
Concen: 51.025 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 41 Resp: 66889

Ion	Ratio	Lower	Upper
41	100		
69	109.8	85.5	128.3
39	57.9	46.2	69.4





#49
1,4-Dioxane
Concen: 990.448 ug/l
RT: 9.237 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 88 Resp: 1878

Ion	Ratio	Lower	Upper
88	100		
43	24.2	21.3	31.9
58	59.0	50.5	75.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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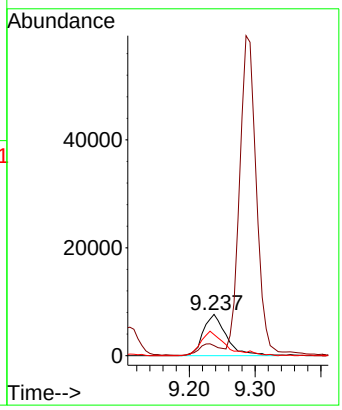
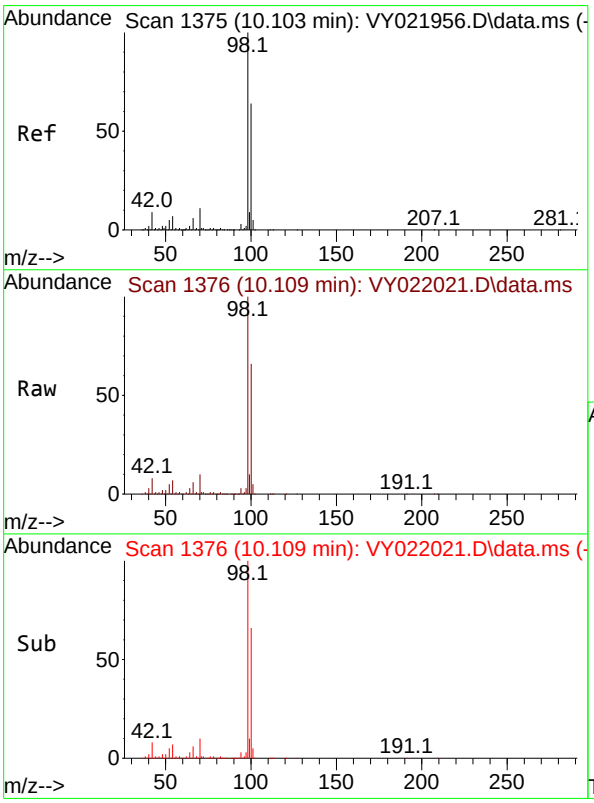
Supervised By :Mahesh Dadoda 04/29/2025

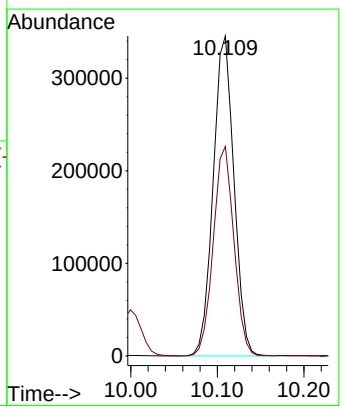


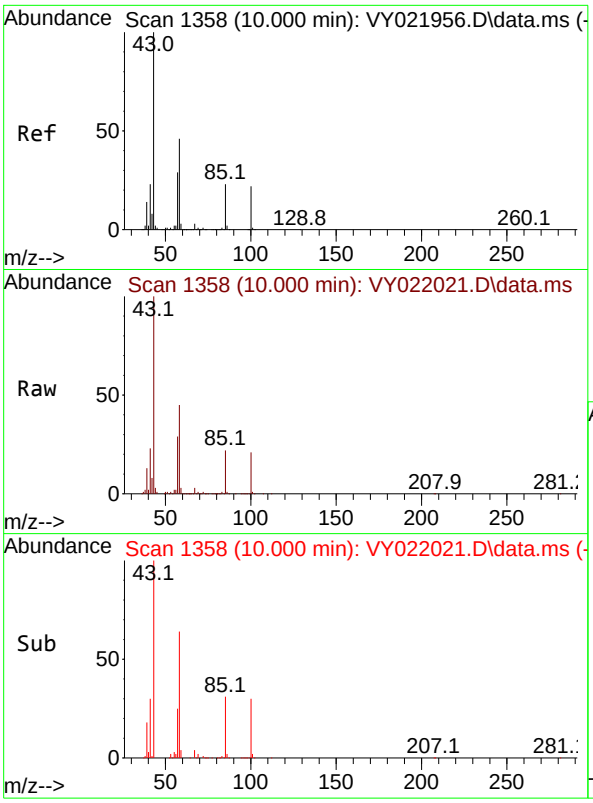


#50
Toluene-d8
Concen: 49.941 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 98 Resp: 576275

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.6	77.4





#51
4-Methyl-2-Pentanone
Concen: 262.978 ug/l
RT: 10.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 39092

Ion	Ratio	Lower	Upper
43	100		
58	45.6	36.6	55.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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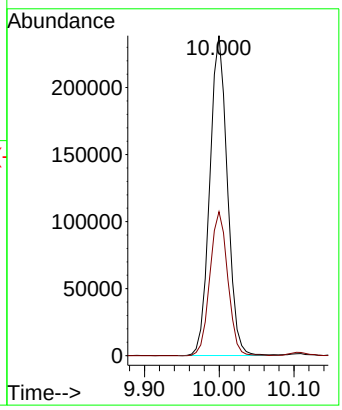
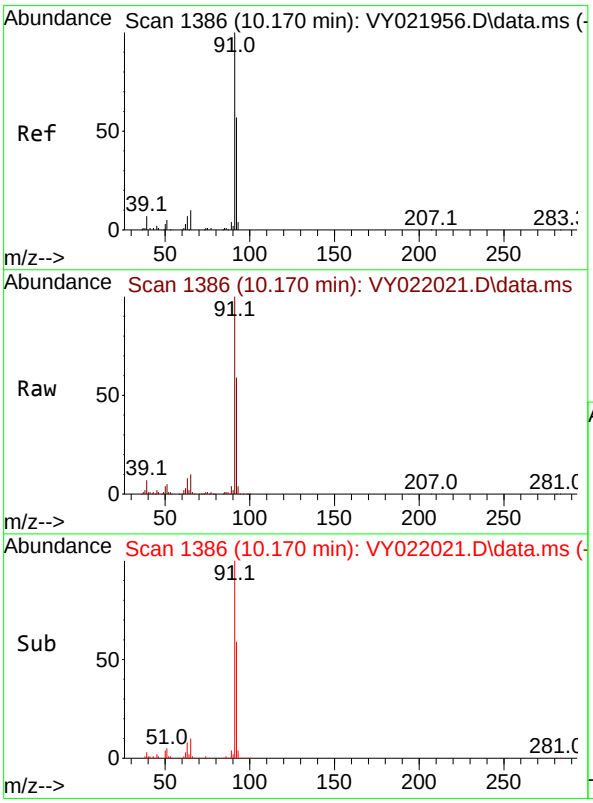
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

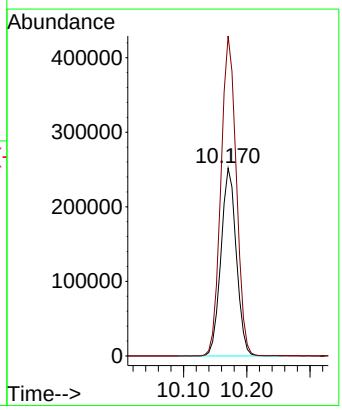


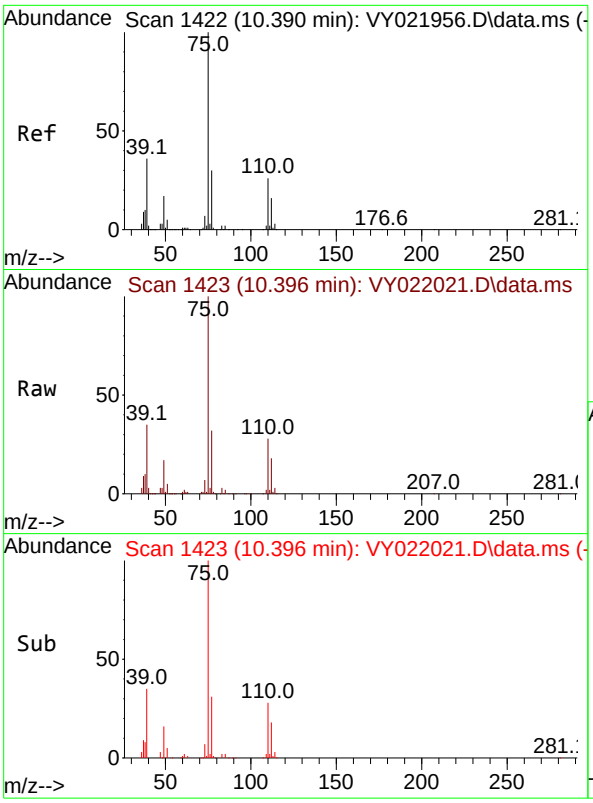


#52
Toluene
Concen: 50.774 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 92 Resp: 422400

Ion	Ratio	Lower	Upper
92	100		
91	171.4	138.6	207.8





#53
t-1,3-Dichloropropene
Concen: 50.300 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 75 Resp: 19176

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.0	36.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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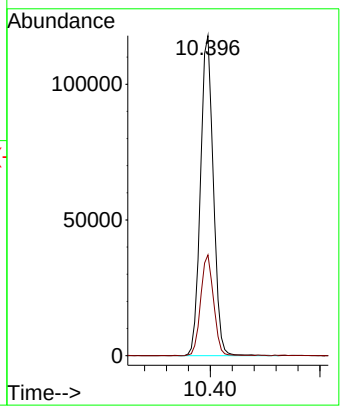
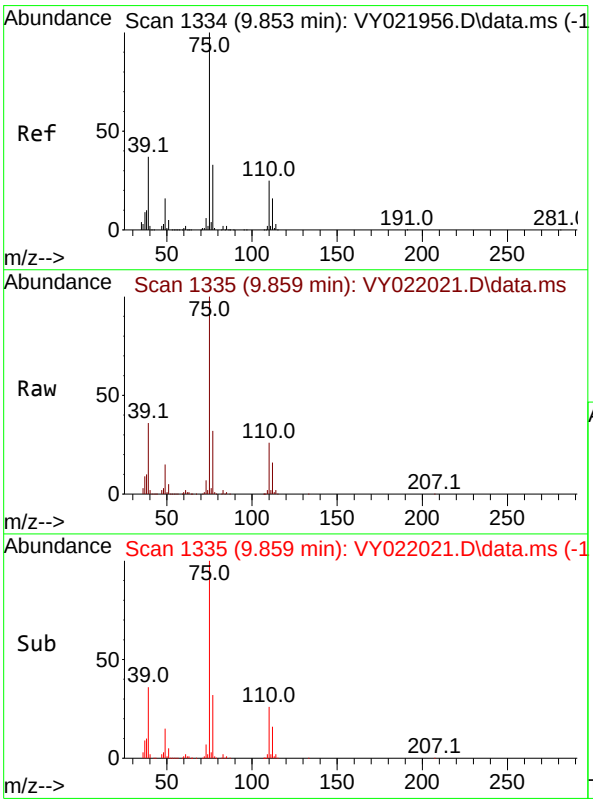
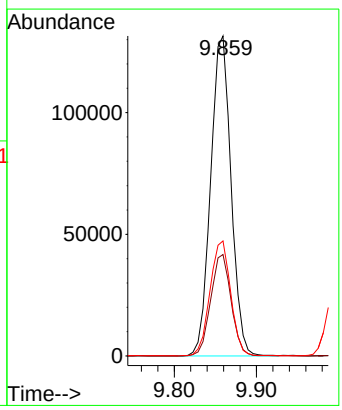


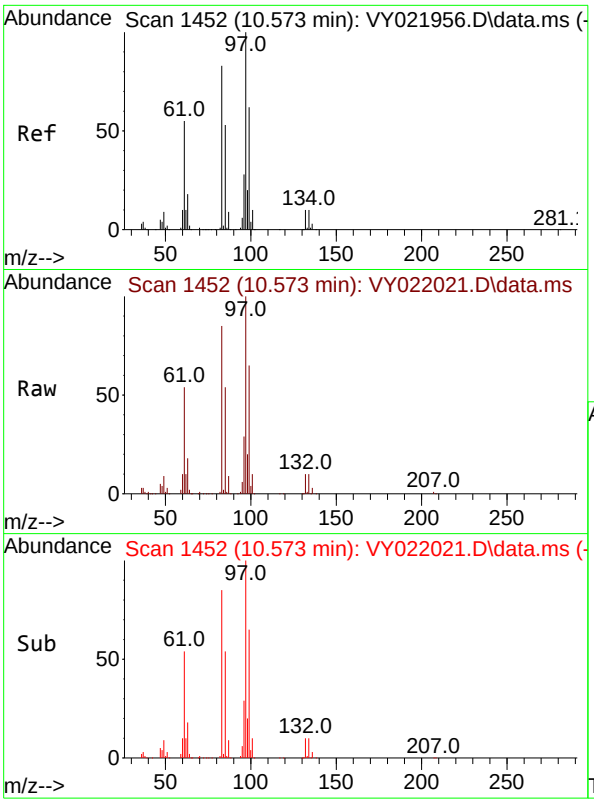


#54
cis-1,3-Dichloropropene
Concen: 50.030 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 75 Resp: 226727

Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.6	40.0
39	36.0	29.6	44.4

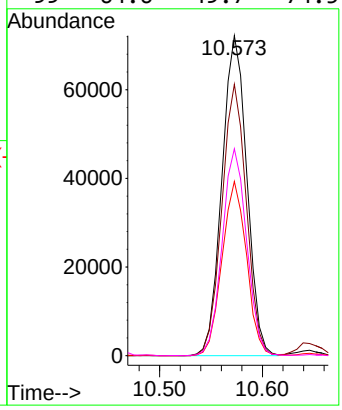




#55
1,1,2-Trichloroethane
Concen: 51.210 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 97 Resp: 12170

Ion	Ratio	Lower	Upper
97	100		
83	84.8	66.7	100.1
85	54.4	42.6	64.0
99	64.6	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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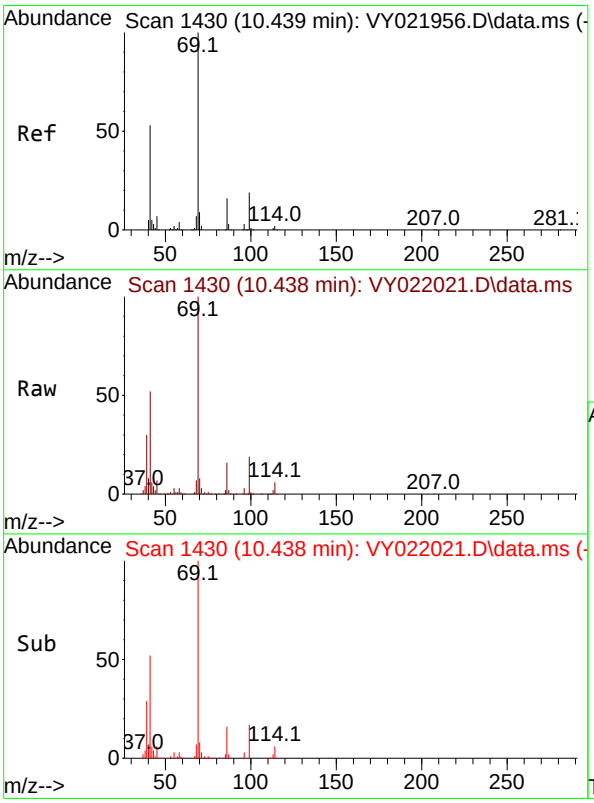
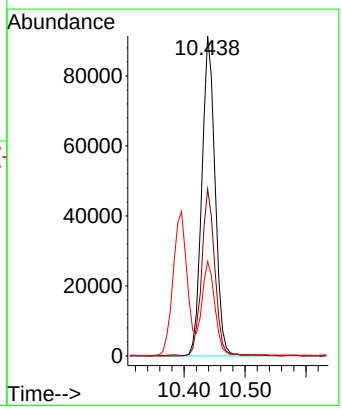
Supervised By :Mahesh Dadoda 04/29/2025

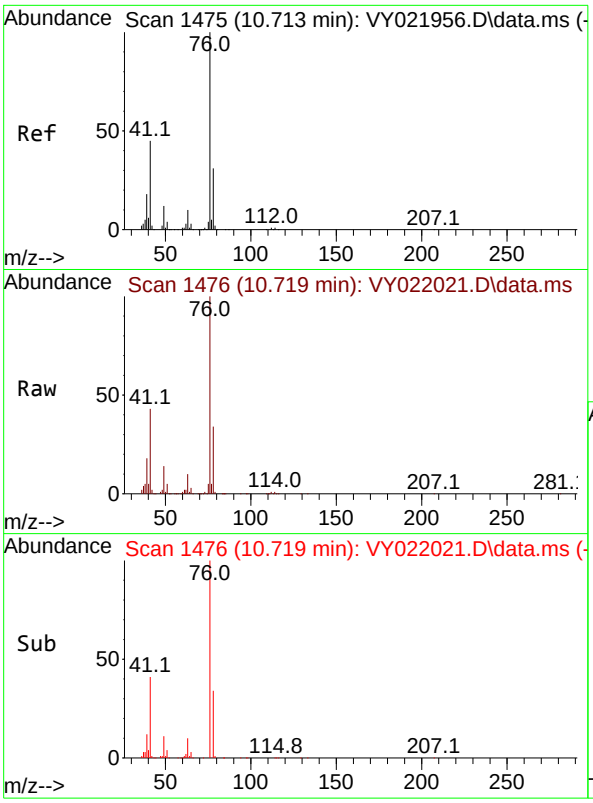


#56
Ethyl methacrylate
Concen: 50.883 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 69 Resp: 138287

Ion	Ratio	Lower	Upper
69	100		
41	51.3	40.7	61.1
39	28.0	23.3	34.9

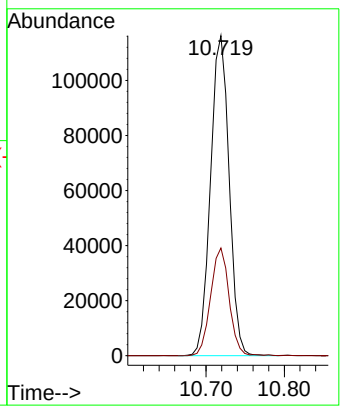




#57
1,3-Dichloropropane
Concen: 50.313 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 76 Resp: 19169

Ion	Ratio	Lower	Upper
76	100		
78	33.4	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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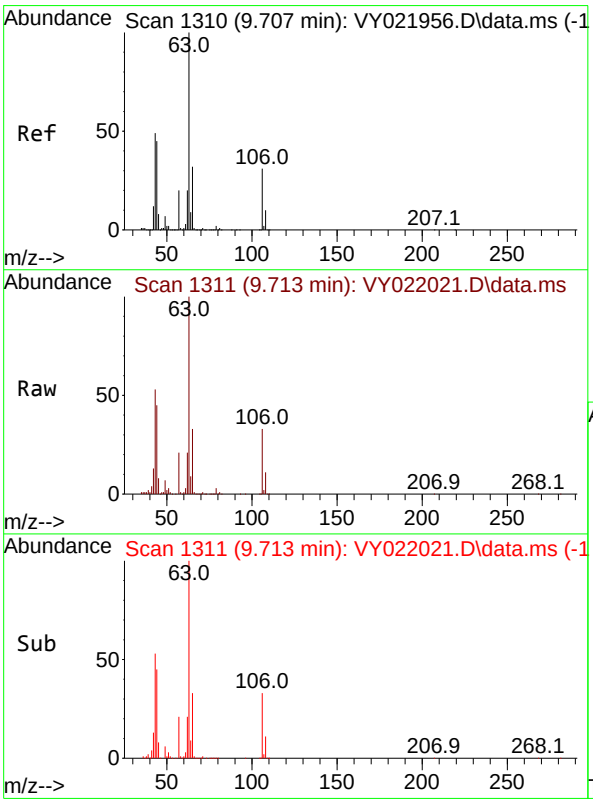
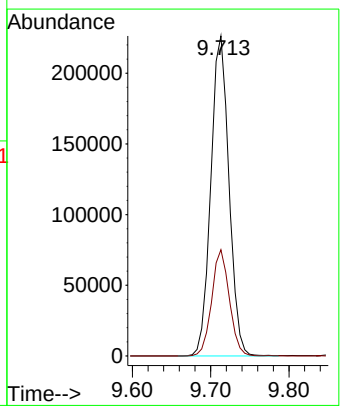
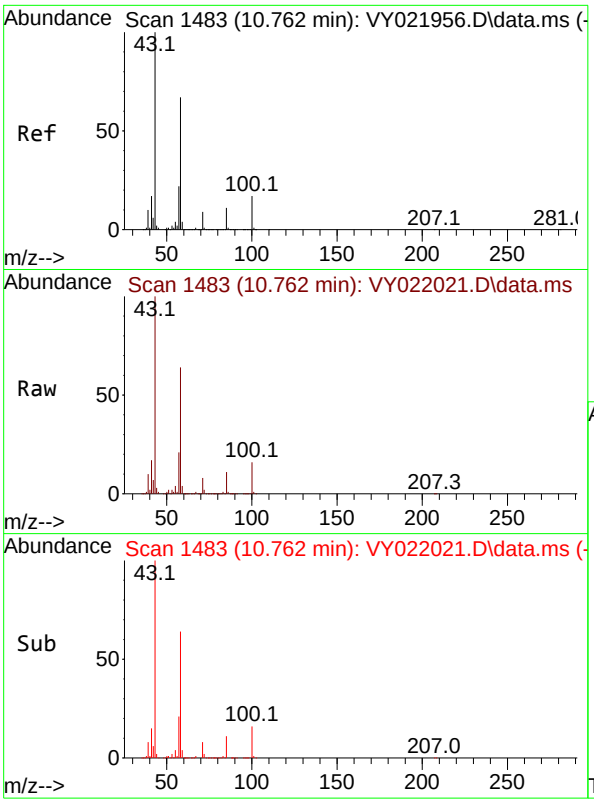


#58
2-Chloroethyl Vinyl ether
Concen: 274.205 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 63 Resp: 364363

Ion	Ratio	Lower	Upper
63	100		
106	32.3	25.3	37.9

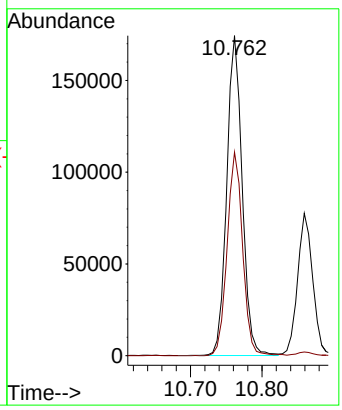




#59
2-Hexanone
Concen: 266.294 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 26109

Ion	Ratio	Lower	Upper
43	100		
58	63.9	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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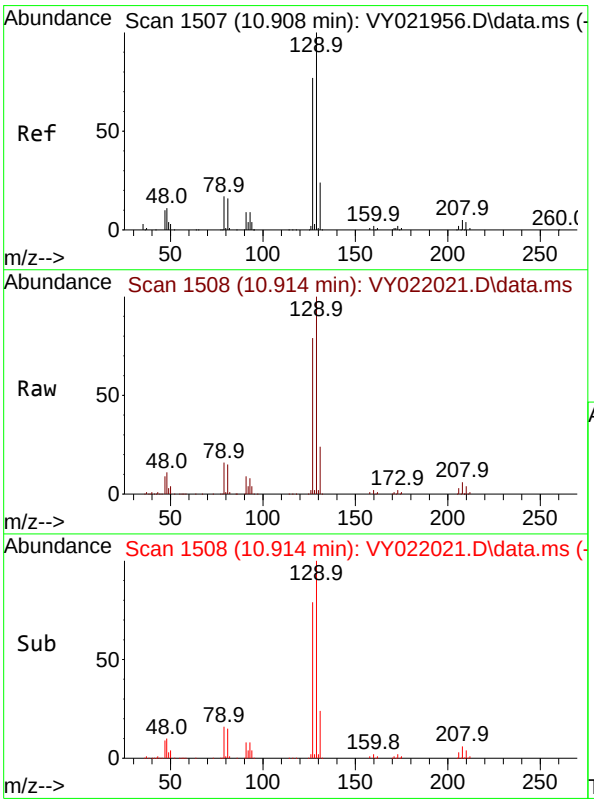
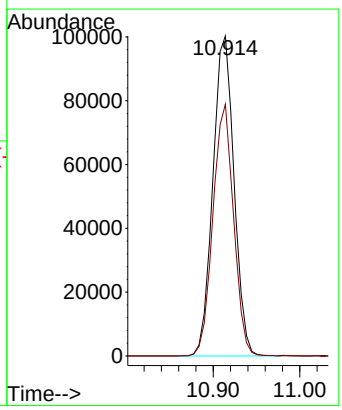
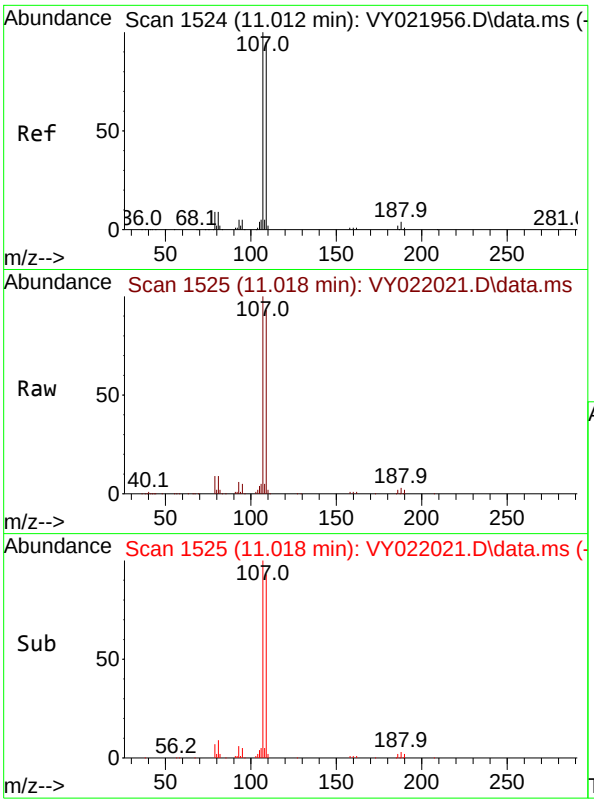


#60
Dibromochloromethane
Concen: 51.661 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:129 Resp: 169983

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.5	115.3

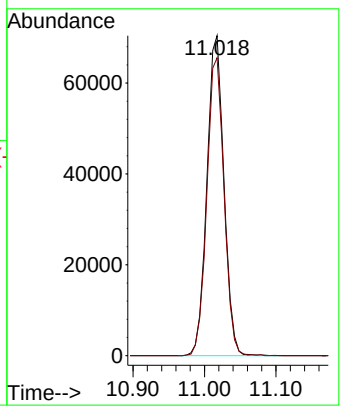




#61
1,2-Dibromoethane
Concen: 51.898 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:107 Resp: 11644

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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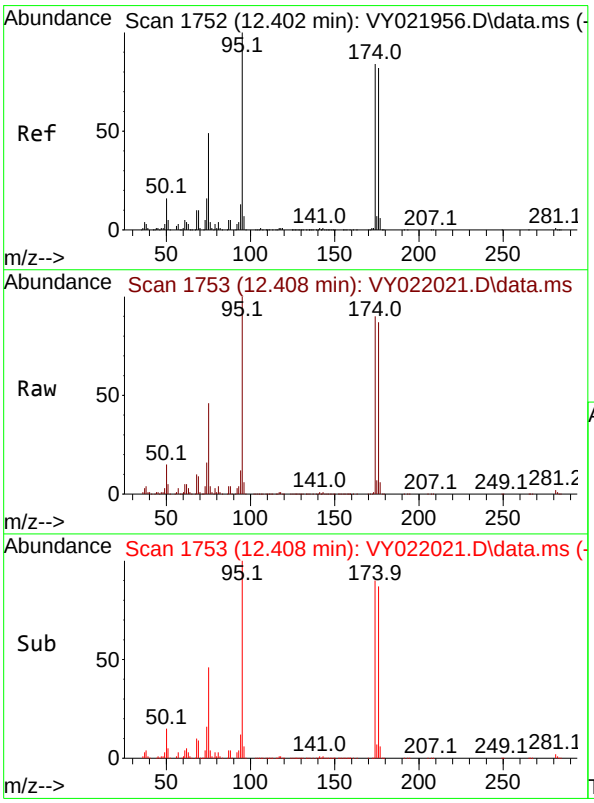
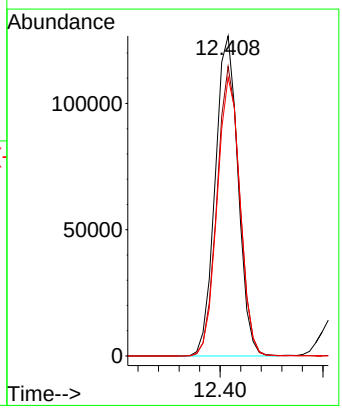
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

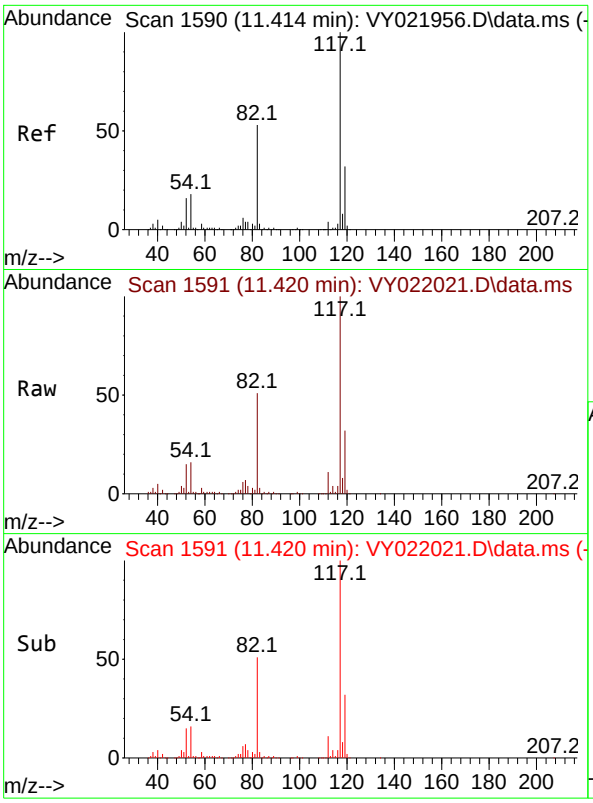


#62
4-Bromofluorobenzene
Concen: 50.288 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 95 Resp: 195343

Ion	Ratio	Lower	Upper
95	100		
174	89.9	0.0	179.0
176	87.5	0.0	171.8

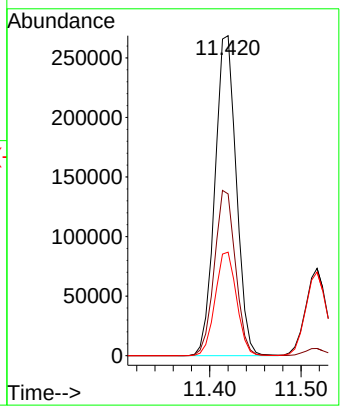




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:117 Resp: 43658

Ion	Ratio	Lower	Upper
117	100		
82	50.5	42.1	63.1
119	32.4	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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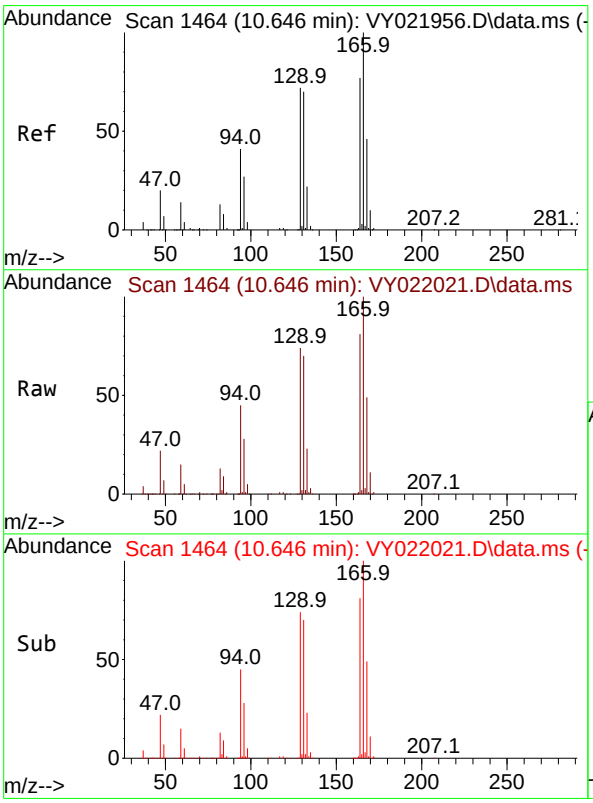
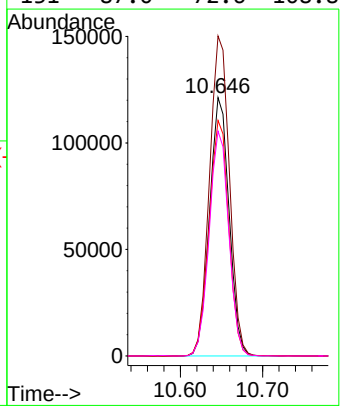
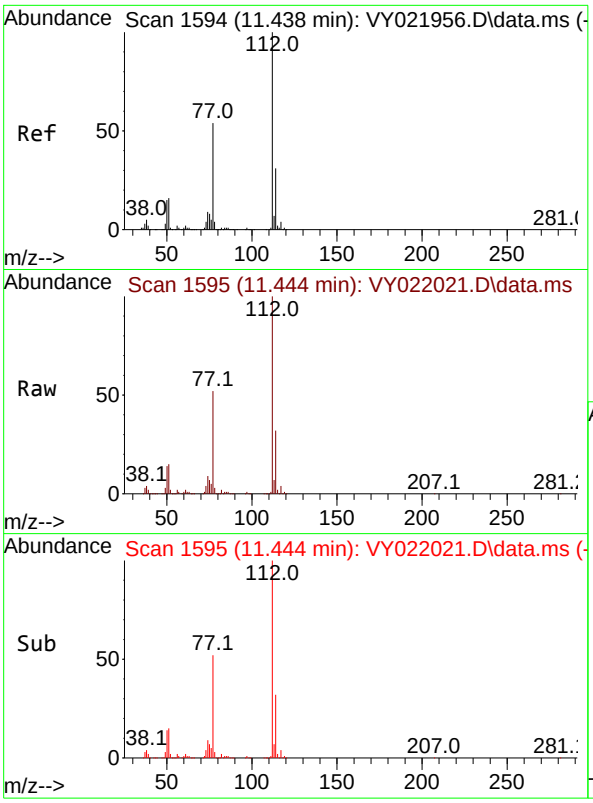


#64
Tetrachloroethene
Concen: 48.844 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:164 Resp: 201169

Ion	Ratio	Lower	Upper
164	100		
166	123.8	103.6	155.4
129	91.2	74.2	111.4
131	87.0	72.6	108.8

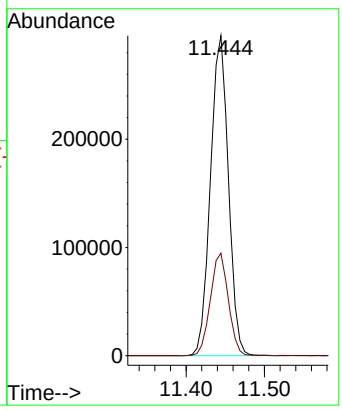




#65
Chlorobenzene
Concen: 48.139 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:112 Resp: 46998

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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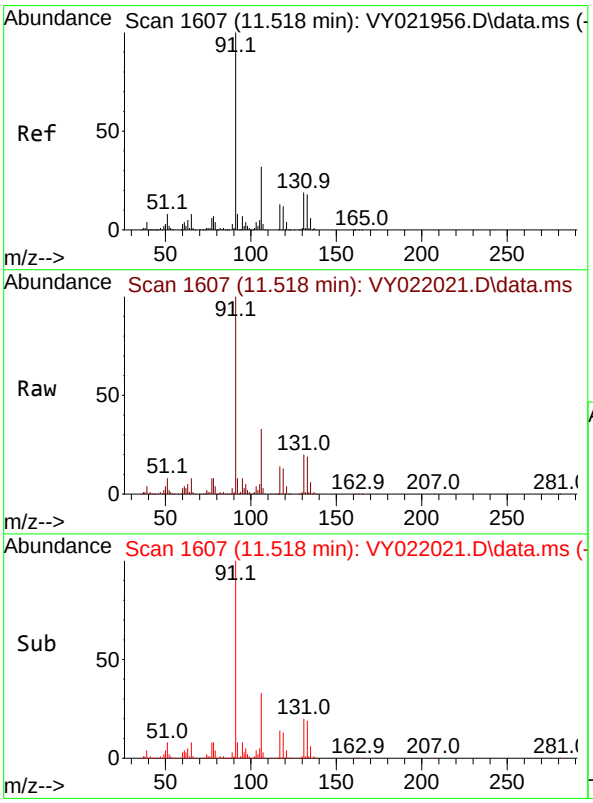
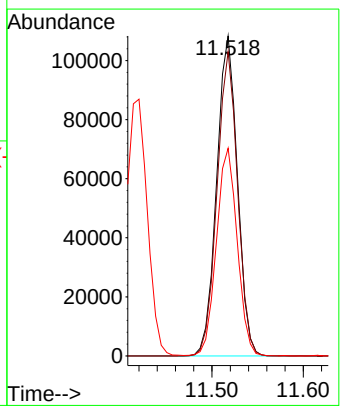
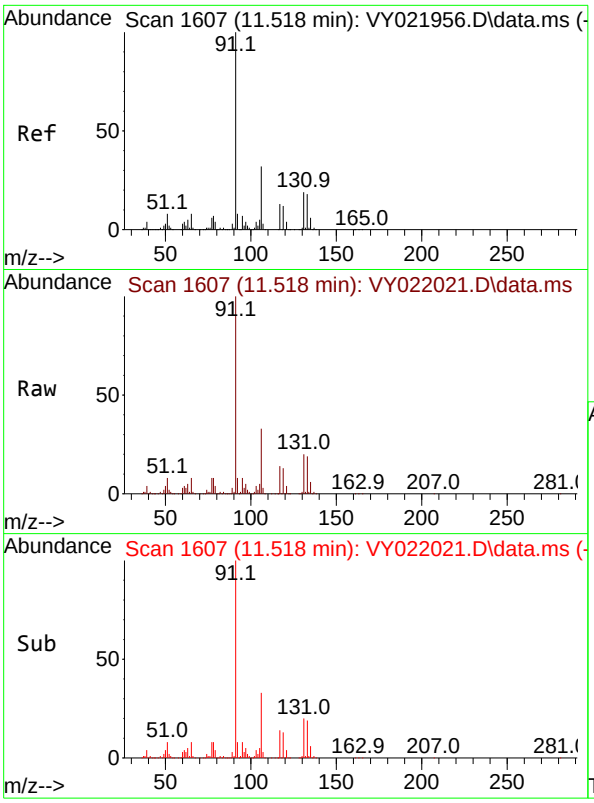


#66
1,1,1,2-Tetrachloroethane
Concen: 49.785 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:131 Resp: 171117

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.8	143.3
119	65.1	32.4	97.0

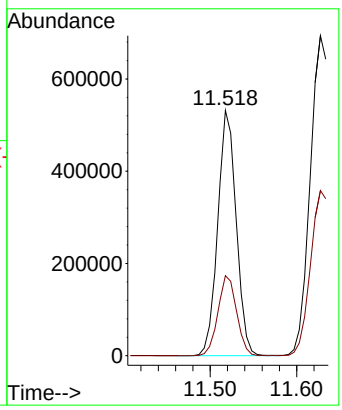




#67
Ethyl Benzene
Concen: 49.296 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 91 Resp: 78730

Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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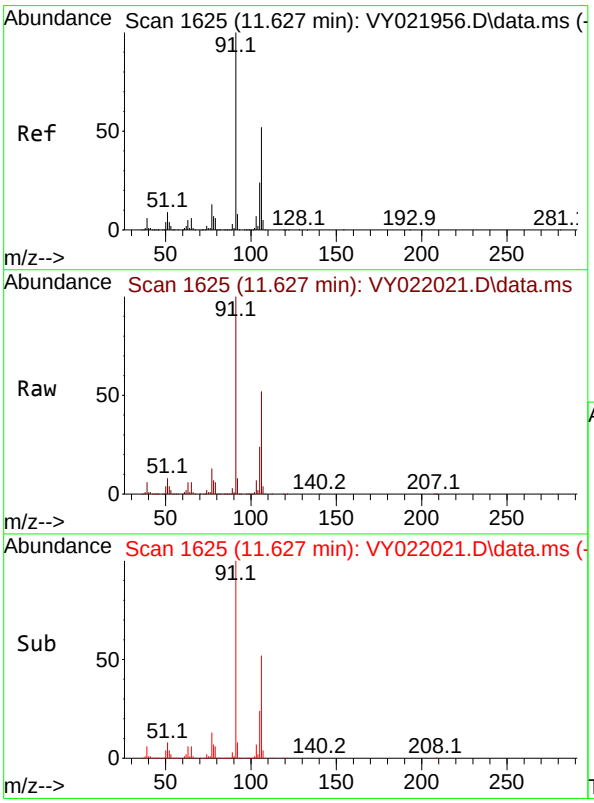
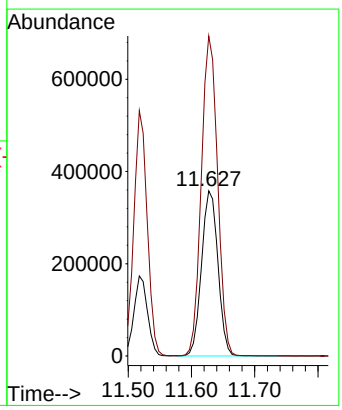
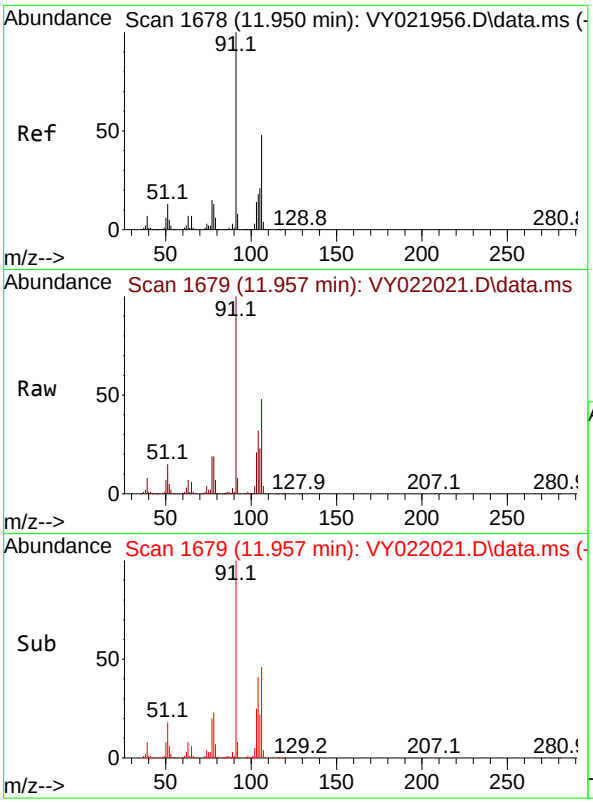


#68
m/p-Xylenes
Concen: 101.477 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:106 Resp: 644900

Ion	Ratio	Lower	Upper
106	100		
91	192.6	156.2	234.2





#69
o-Xylene
Concen: 50.257 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:106 Resp: 29437

Ion	Ratio	Lower	Upper
106	100		
91	204.8	103.0	308.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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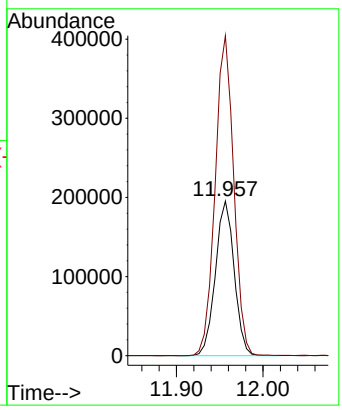
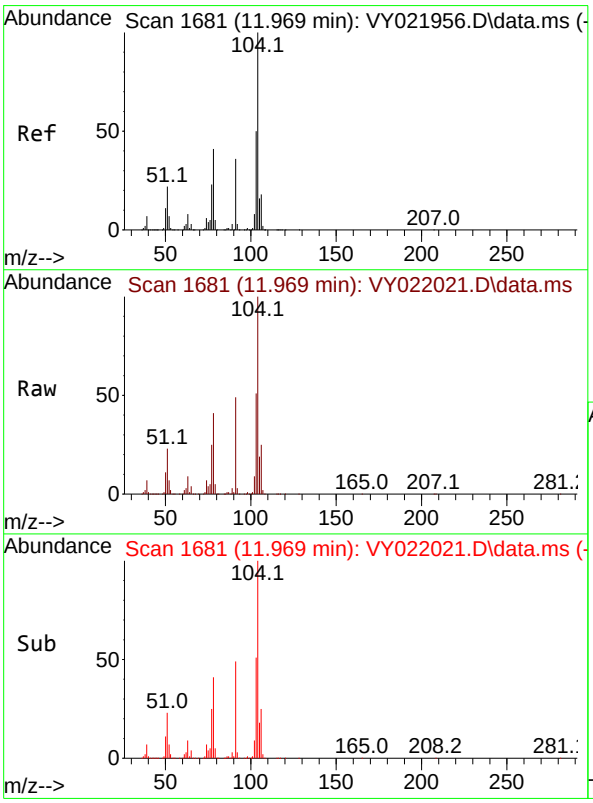
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

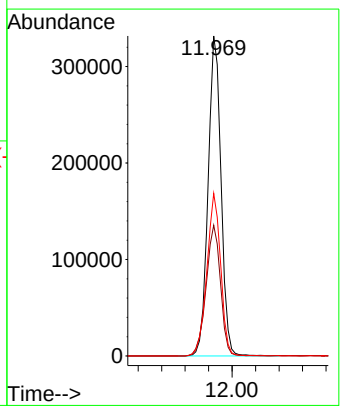


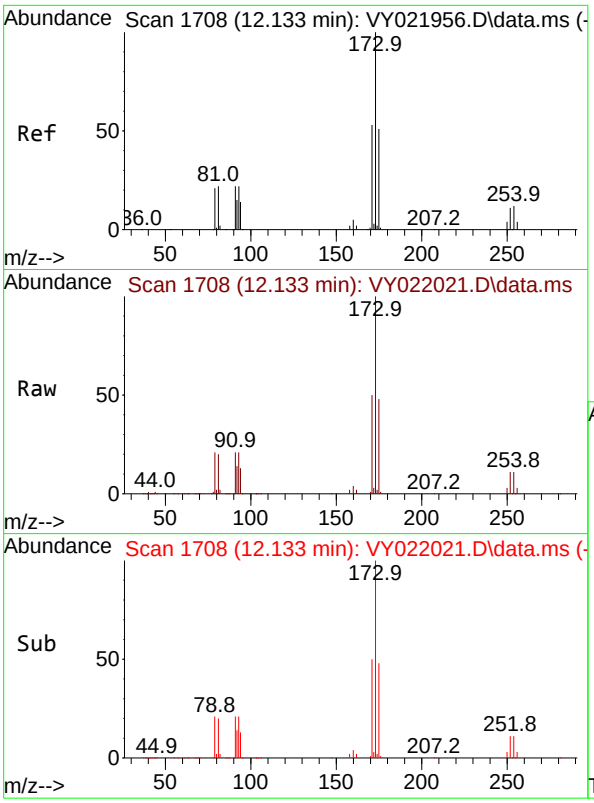


#70
Styrene
Concen: 51.691 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:104 Resp: 508377

Ion	Ratio	Lower	Upper
104	100		
78	45.4	36.6	54.8
103	54.1	43.8	65.8

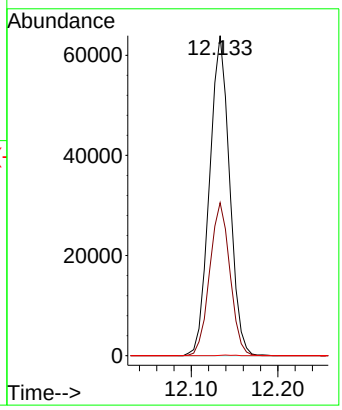




#71
Bromoform
Concen: 51.502 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:173 Resp: 10291

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.3	72.8
254	0.1	0.0	0.0



Instrument :
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ClientSampleId :
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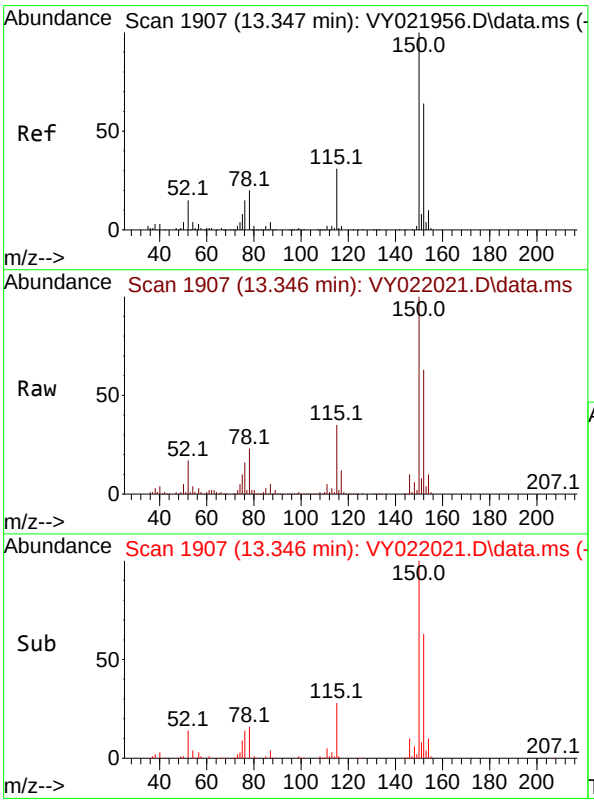
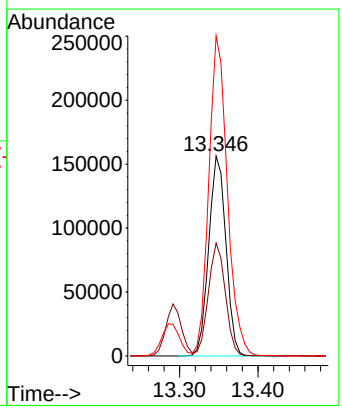
Supervised By :Mahesh Dadoda 04/29/2025

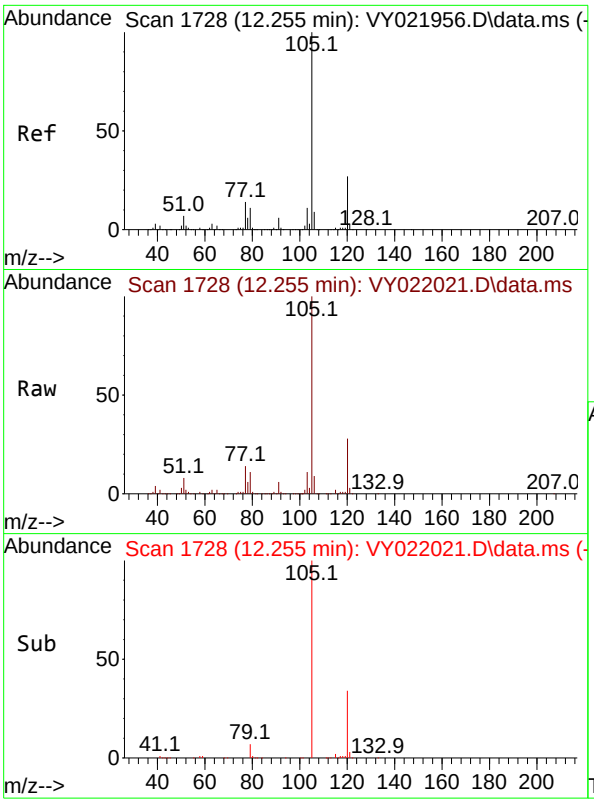


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:152 Resp: 238558

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.0	84.0
150	172.0	0.0	345.6

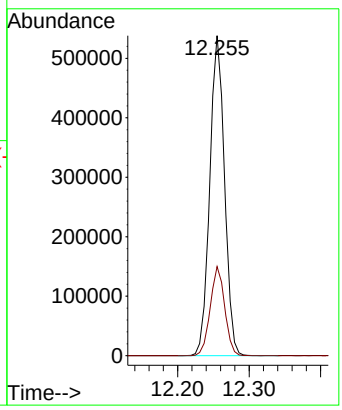




#73
Isopropylbenzene
Concen: 48.321 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:105 Resp: 77014

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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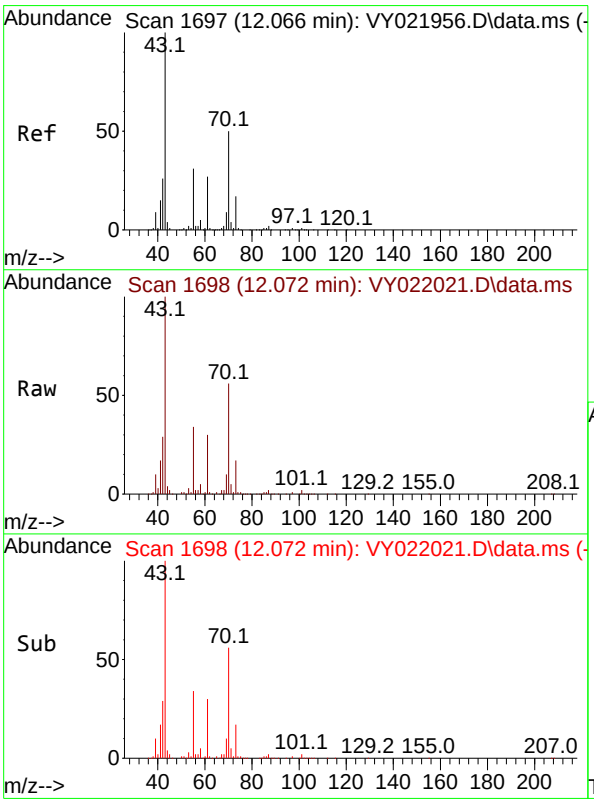
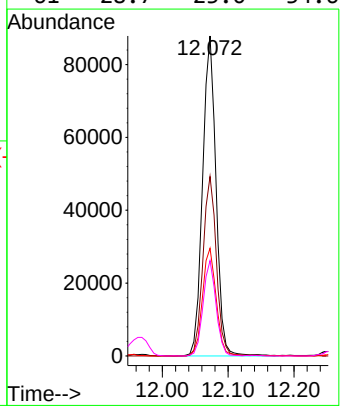
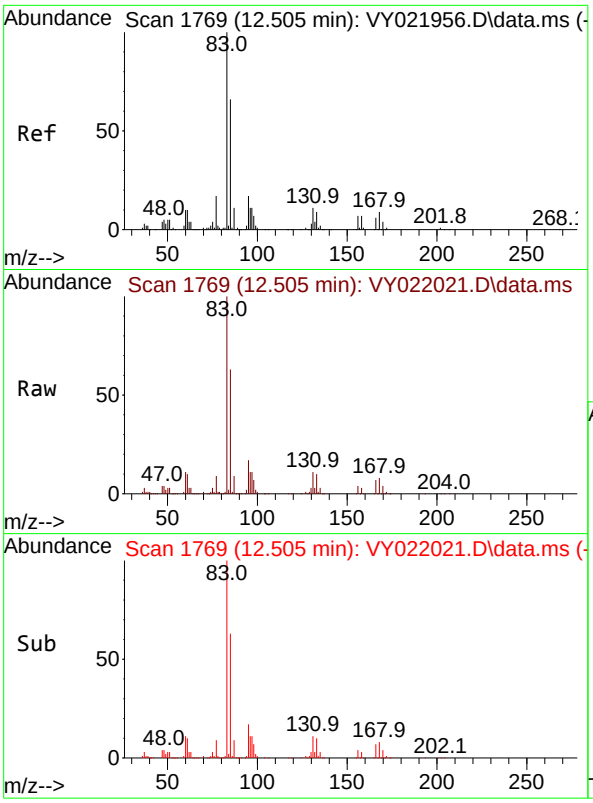


#74
N-amyl acetate
Concen: 45.653 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 43 Resp: 125014

Ion	Ratio	Lower	Upper
43	100		
70	56.2	43.2	64.8
55	34.5	25.7	38.5
61	28.7	23.0	34.6

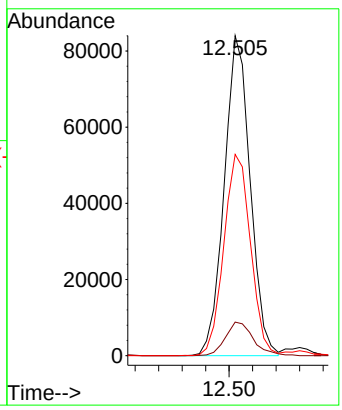




#75
1,1,2,2-Tetrachloroethane
Concen: 47.921 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 83 Resp: 12876

Ion	Ratio	Lower	Upper
83	100		
131	11.3	5.5	16.4
85	65.4	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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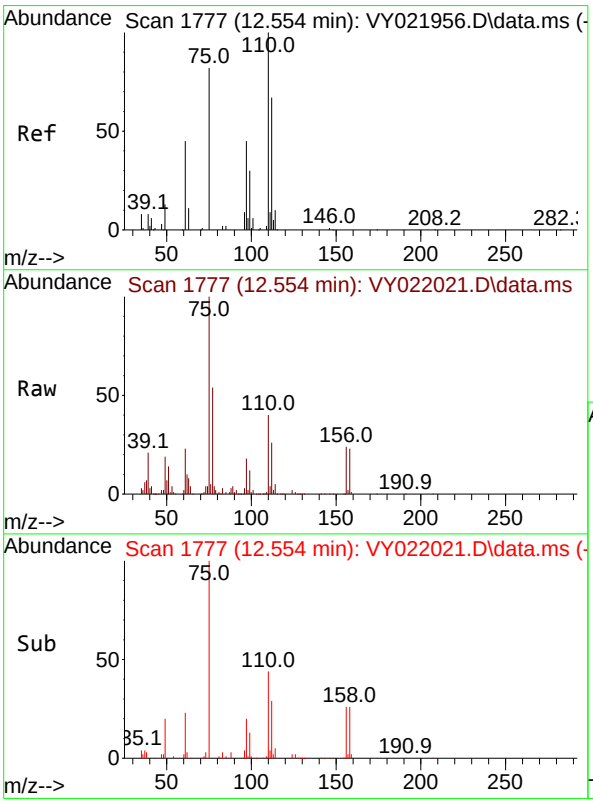
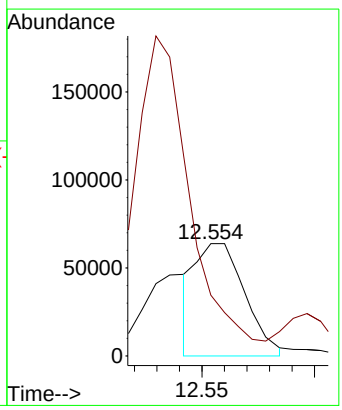
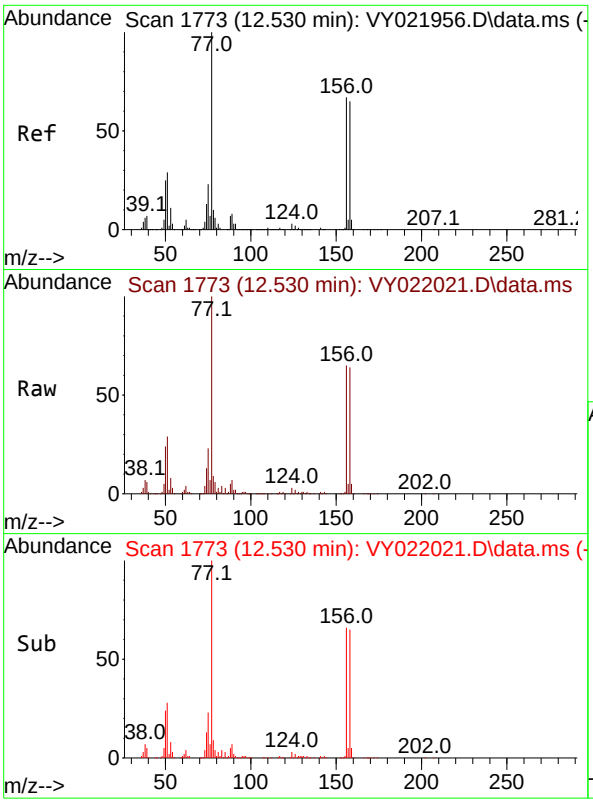


#76
1,2,3-Trichloropropane
Concen: 47.871 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 75 Resp: 97818

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

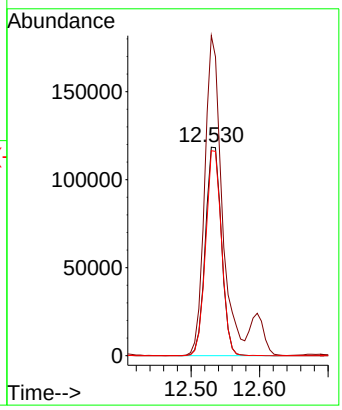




#77
Bromobenzene
Concen: 48.026 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:156 Resp: 19341

Ion	Ratio	Lower	Upper
156	100		
77	164.1	82.7	248.1
158	97.1	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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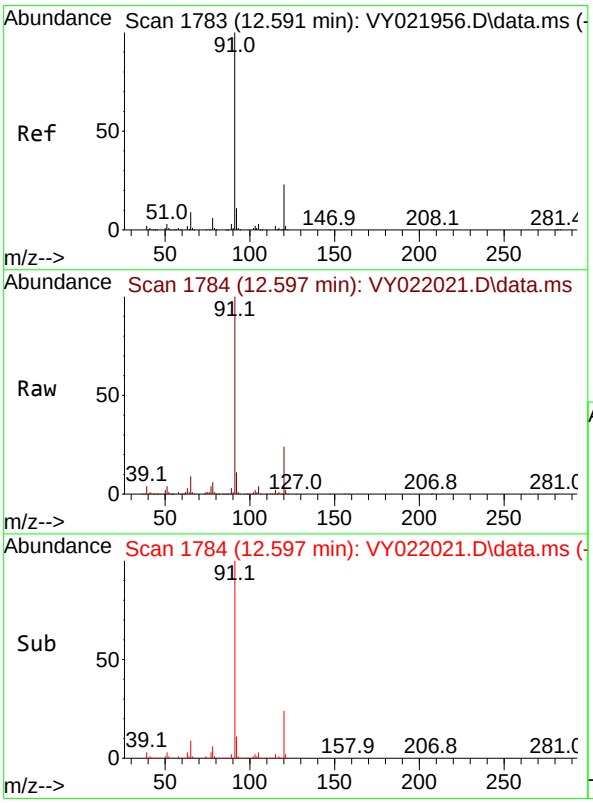
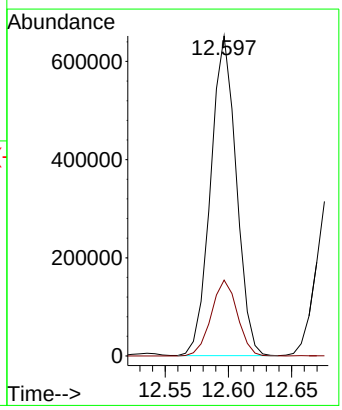
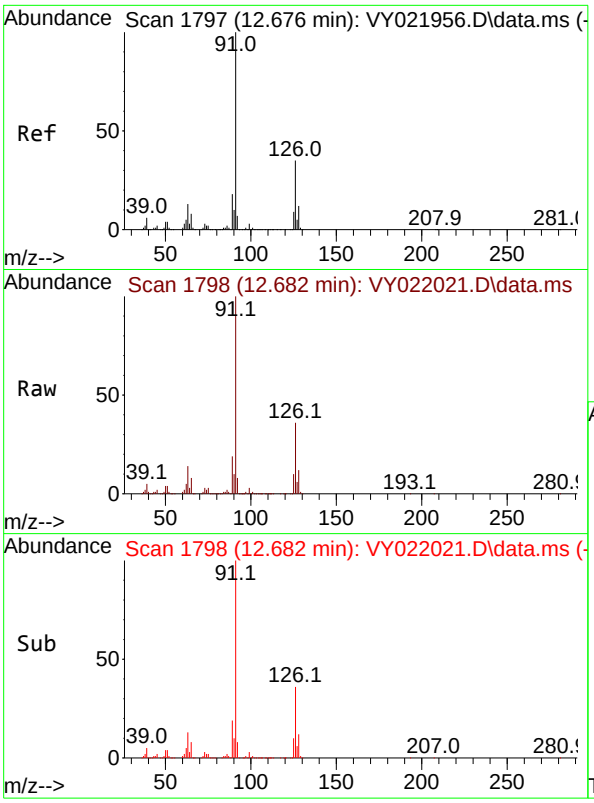


#78
n-propylbenzene
Concen: 48.417 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 91 Resp: 918990

Ion	Ratio	Lower	Upper
91	100		
120	24.1	11.9	35.5

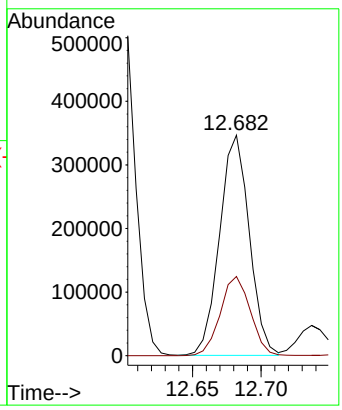




#79
2-Chlorotoluene
Concen: 47.359 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 91 Resp: 52277

Ion	Ratio	Lower	Upper
91	100		
126	36.4	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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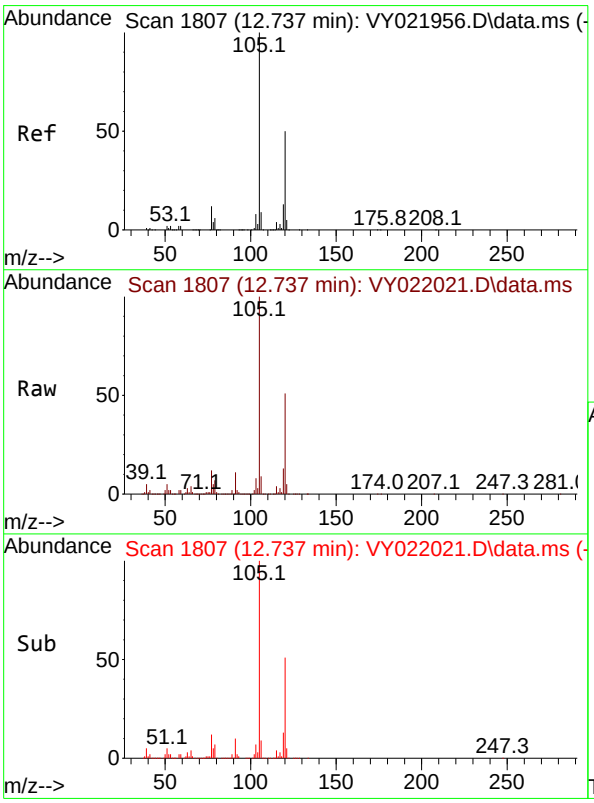
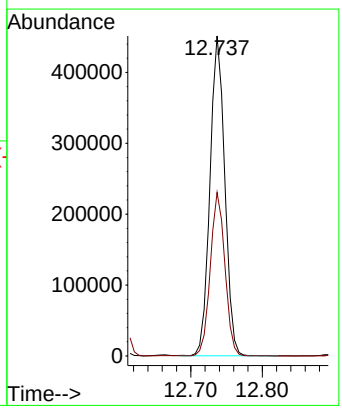
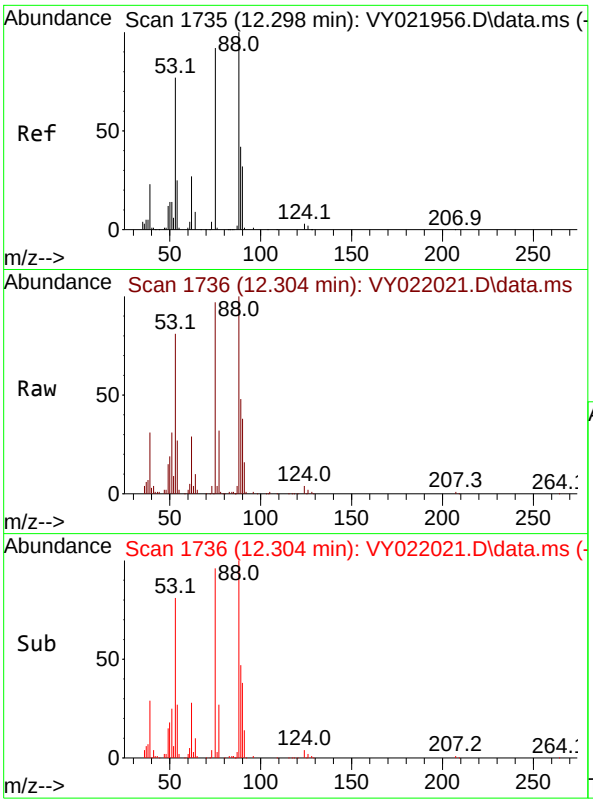


#80
1,3,5-Trimethylbenzene
Concen: 49.434 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:105 Resp: 649179

Ion	Ratio	Lower	Upper
105	100		
120	50.3	25.0	75.0

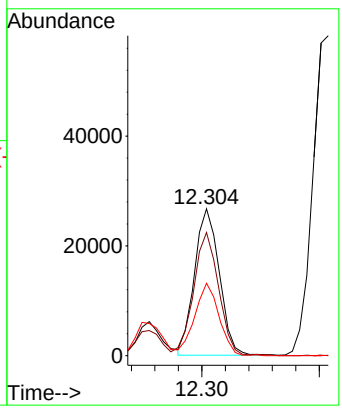




#81
trans-1,4-Dichloro-2-butene
Concen: 46.220 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 75 Resp: 3921

Ion	Ratio	Lower	Upper
75	100		
53	85.3	66.0	99.0
89	48.4	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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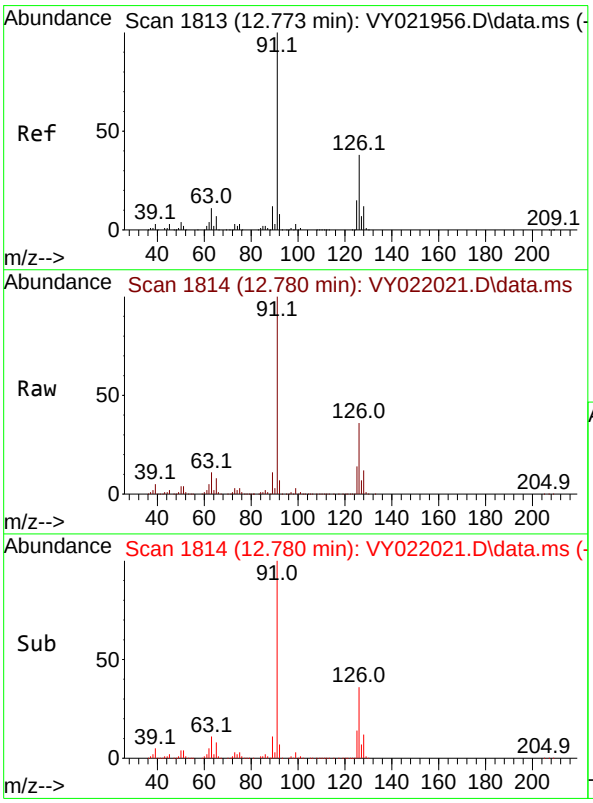
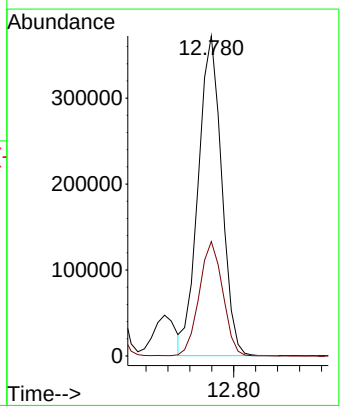
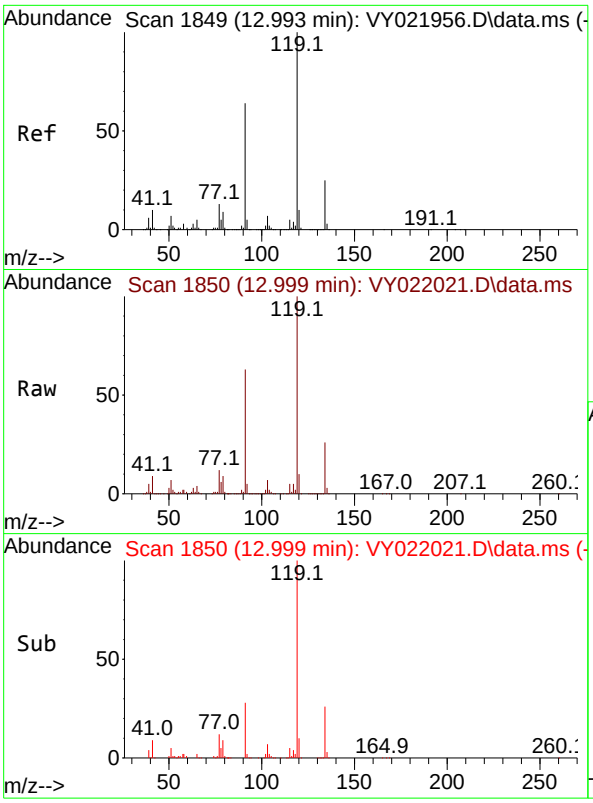


#82
4-Chlorotoluene
Concen: 48.113 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 91 Resp: 552085

Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.9	53.8

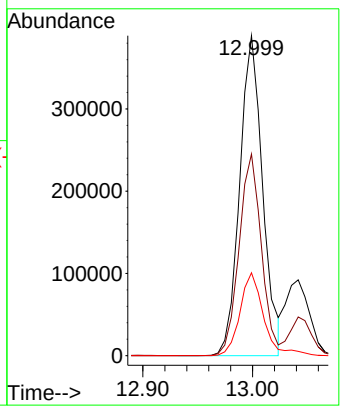




#83
tert-Butylbenzene
Concen: 47.962 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:119 Resp: 56488

Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.3	90.9
134	26.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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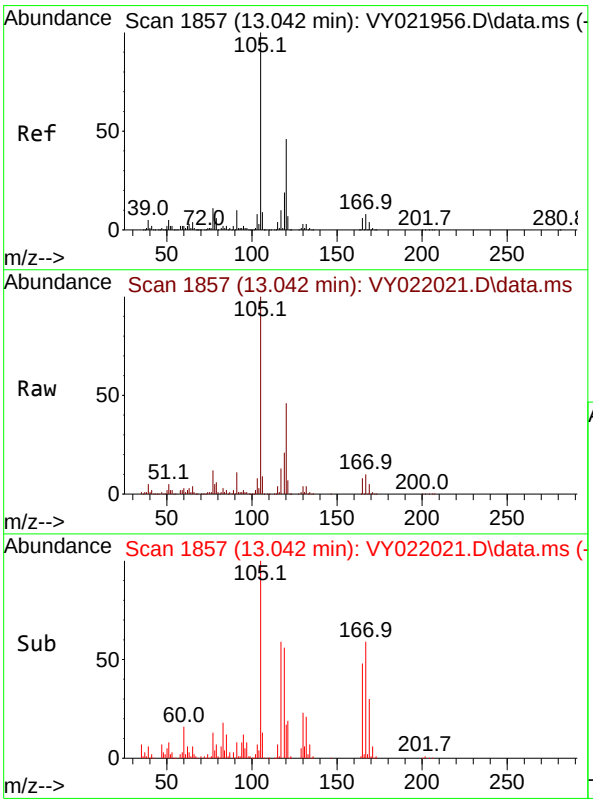
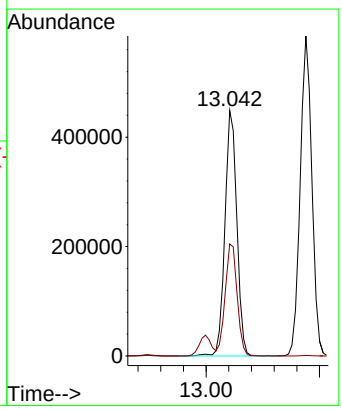
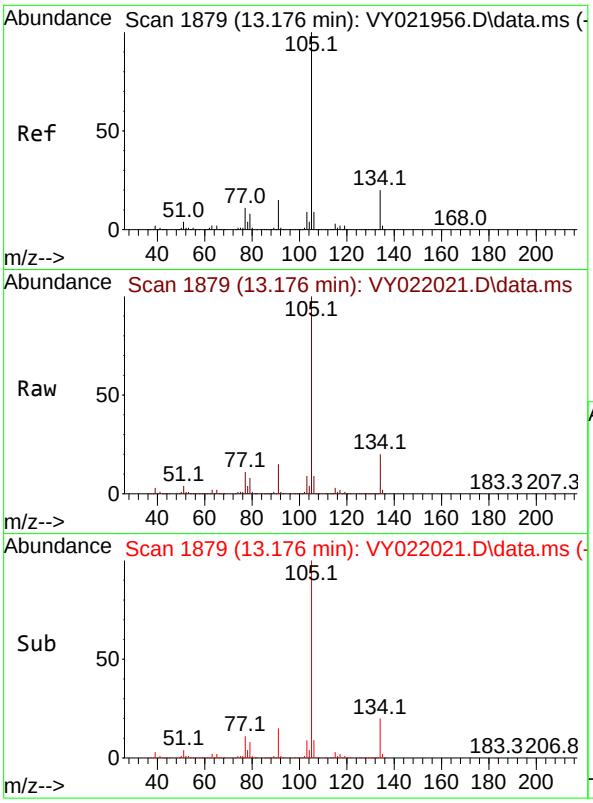


#84
1,2,4-Trimethylbenzene
Concen: 49.692 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:105 Resp: 652719

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.4	70.0

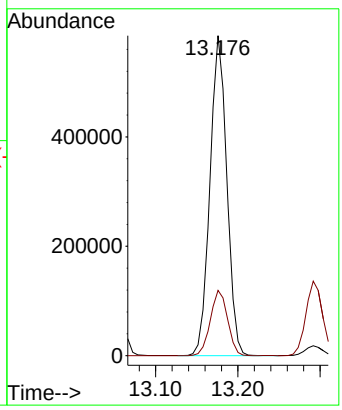




#85
sec-Butylbenzene
Concen: 48.338 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:105 Resp: 83306

Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.3	30.9



Instrument :
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VSTDCCC050

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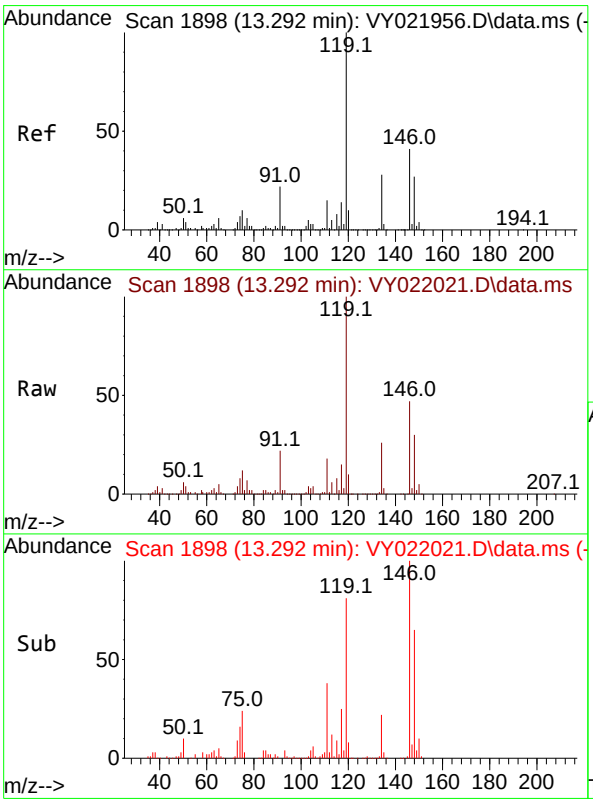
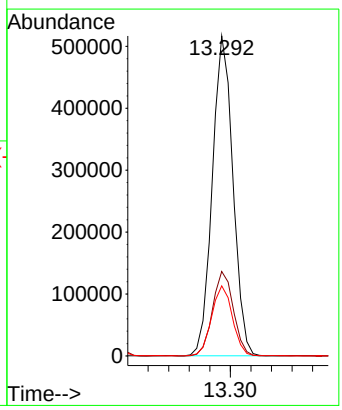
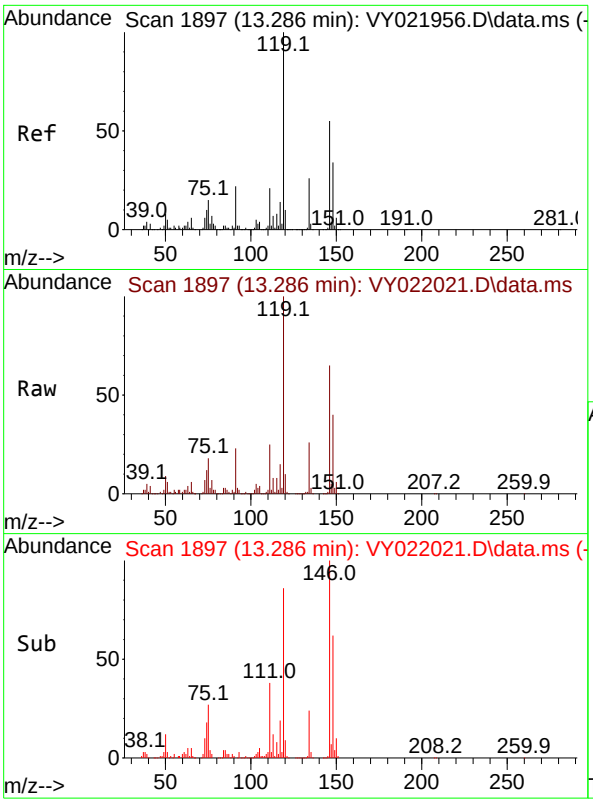


#86
p-Isopropyltoluene
Concen: 49.118 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:119 Resp: 718809

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.6	40.7
91	22.2	11.0	33.0

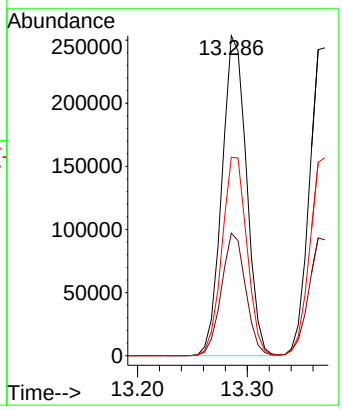




#87
1,3-Dichlorobenzene
Concen: 48.150 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:146 Resp: 39385

Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.5
148	63.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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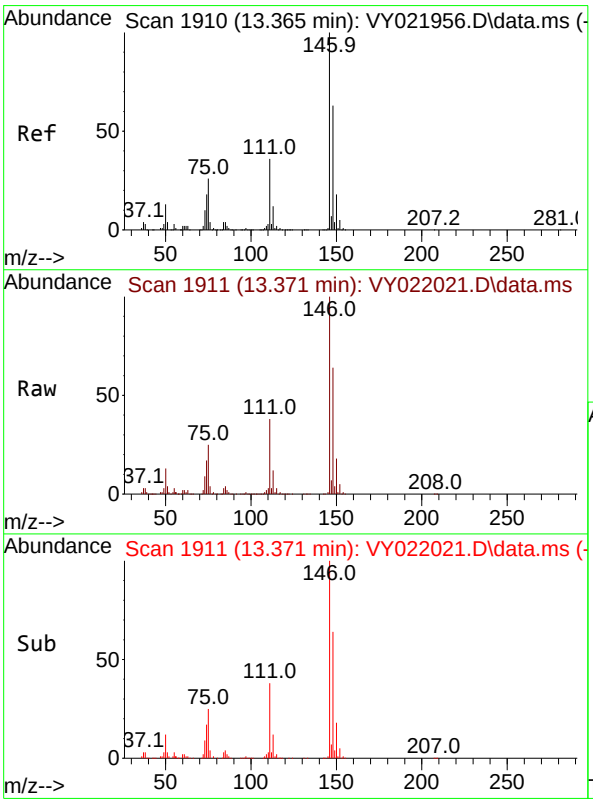
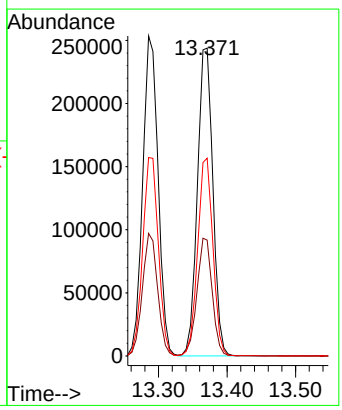
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

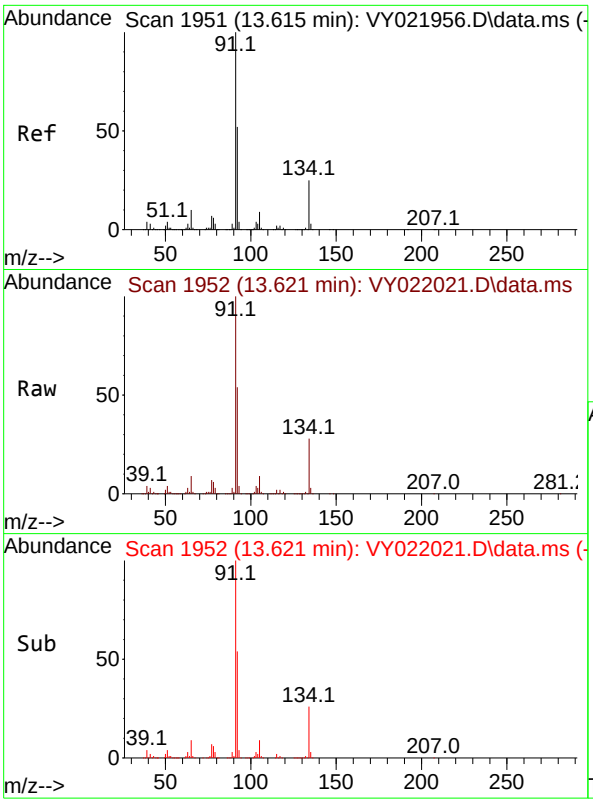


#88
1,4-Dichlorobenzene
Concen: 47.284 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:146 Resp: 383054

Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.2	57.6
148	63.4	32.0	96.0

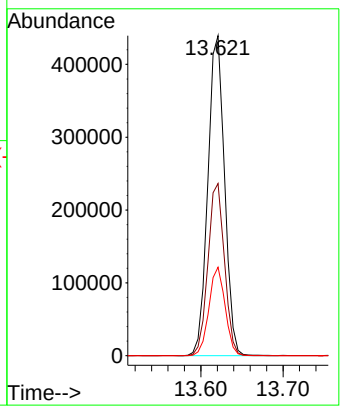




#89
n-Butylbenzene
Concen: 47.376 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 91 Resp: 619718

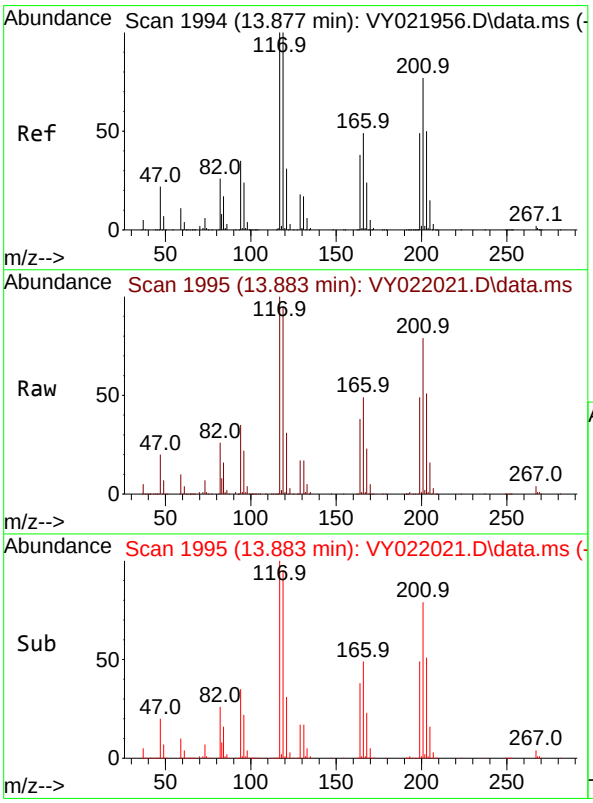
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.5	79.5
134	26.8	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

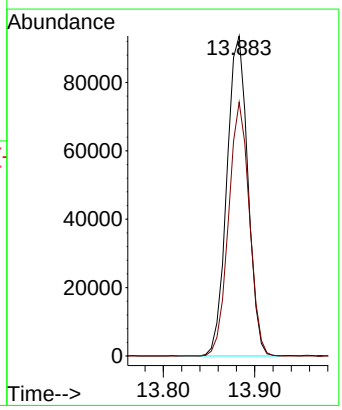
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

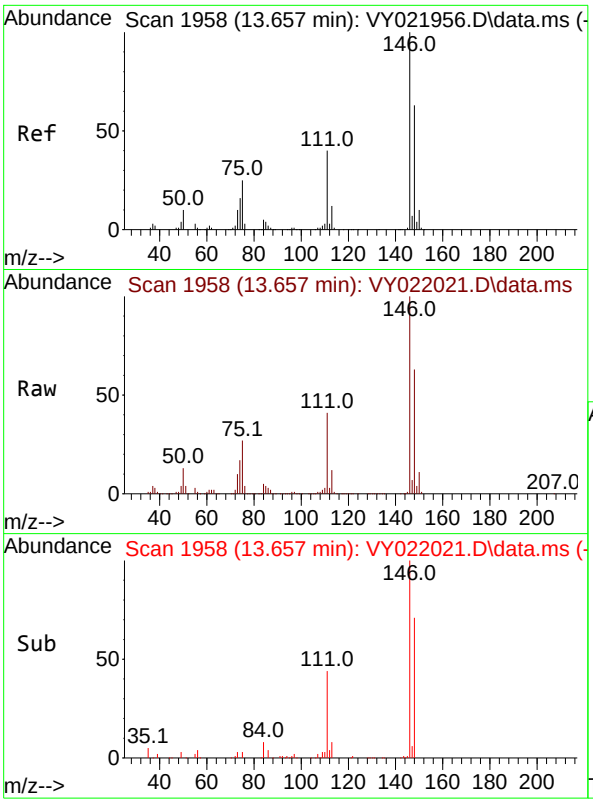


#90
Hexachloroethane
Concen: 46.466 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:117 Resp: 149402

Ion	Ratio	Lower	Upper
117	100		
201	78.4	38.7	116.1

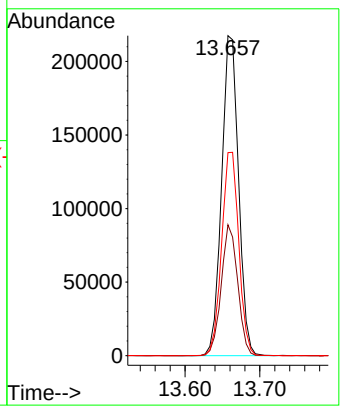




#91
1,2-Dichlorobenzene
Concen: 48.011 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:146 Resp: 34252

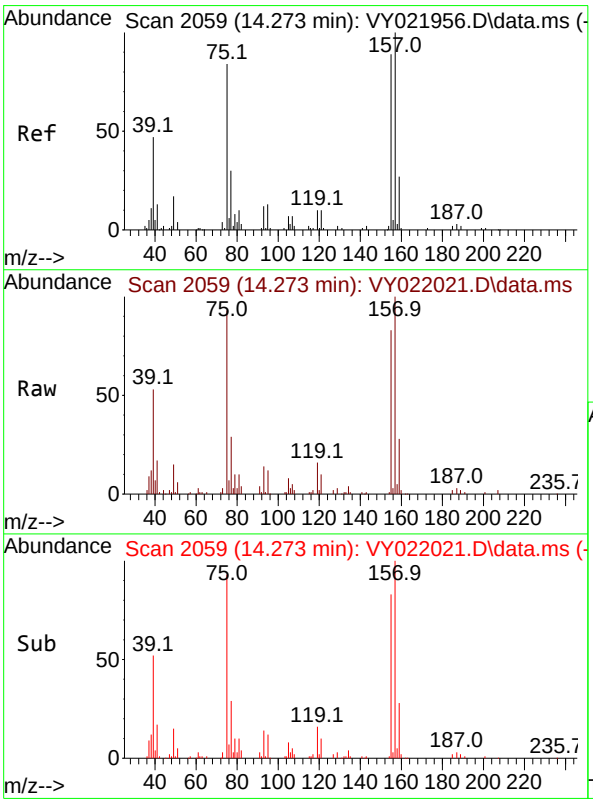
Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.7	59.1
148	64.5	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

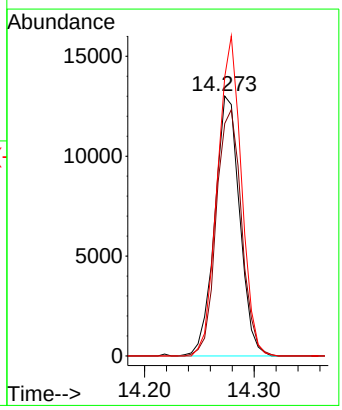
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

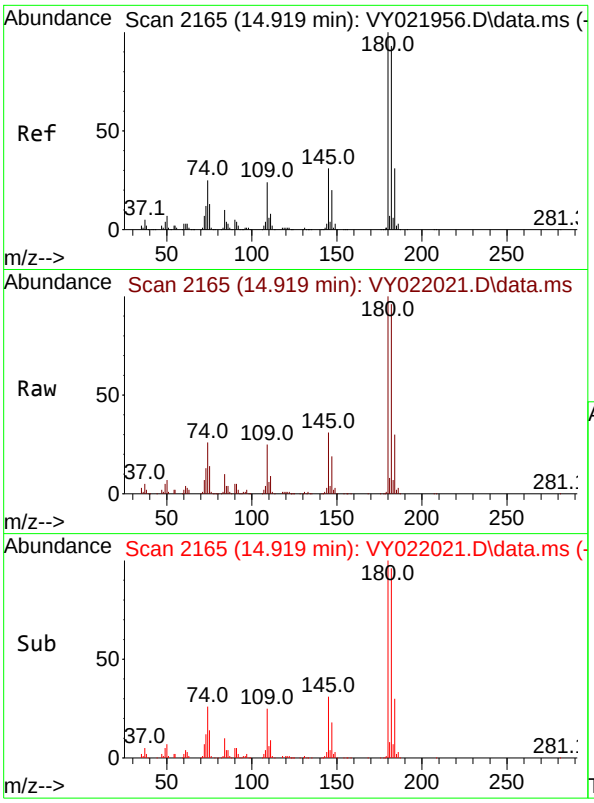


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.111 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion: 75 Resp: 20568

Ion	Ratio	Lower	Upper
75	100		
155	95.8	50.7	152.3
157	117.7	62.6	187.8

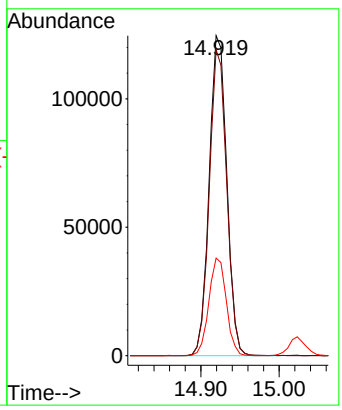




#93
1,2,4-Trichlorobenzene
Concen: 48.066 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:180 Resp: 19432

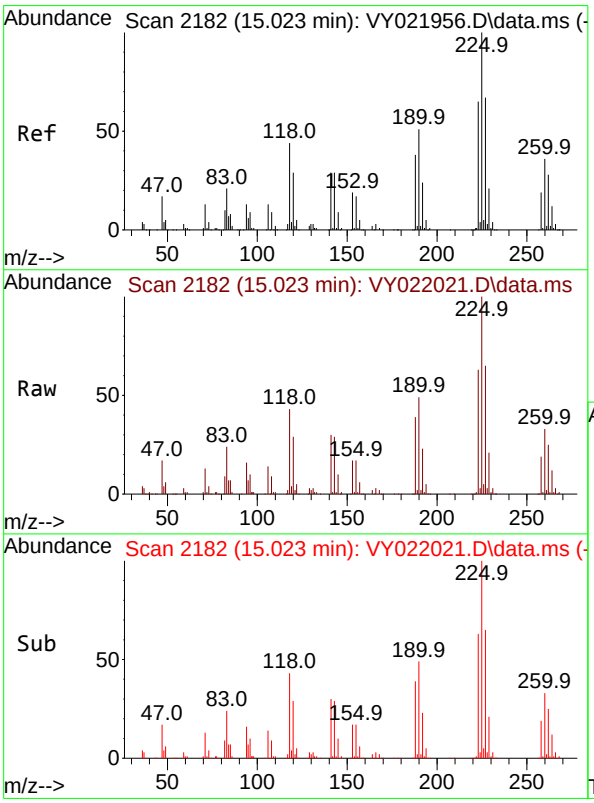
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.1	141.4
145	30.2	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

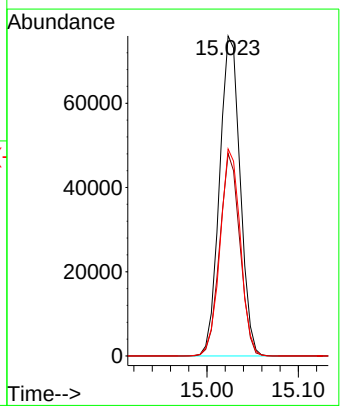
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

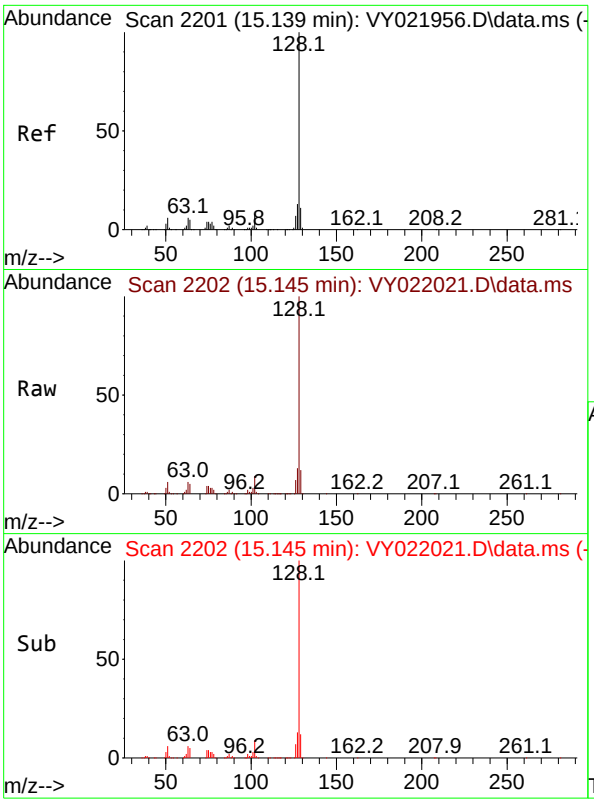


#94
Hexachlorobutadiene
Concen: 47.878 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:225 Resp: 119092

Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.9	95.5
227	63.6	32.3	96.9

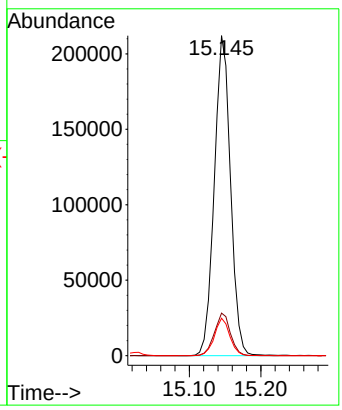




#95
Naphthalene
Concen: 49.688 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:128 Resp: 33369

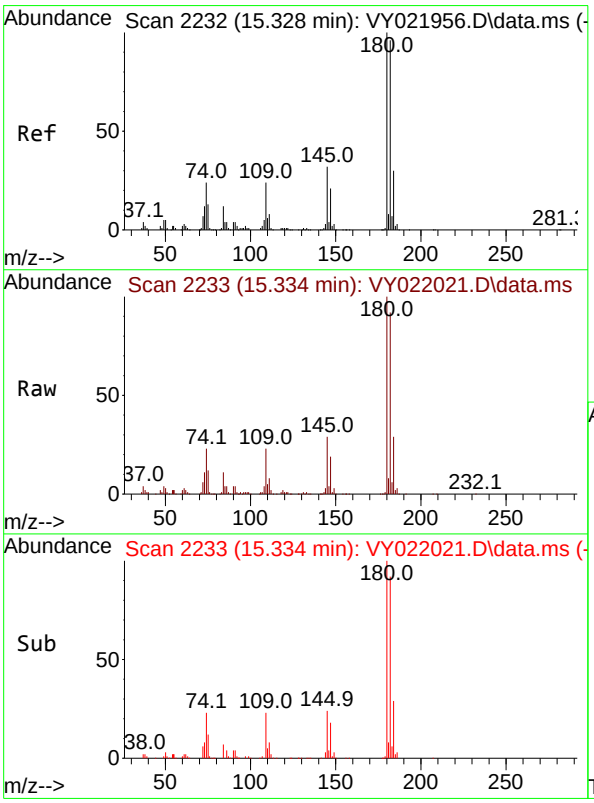
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.2	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

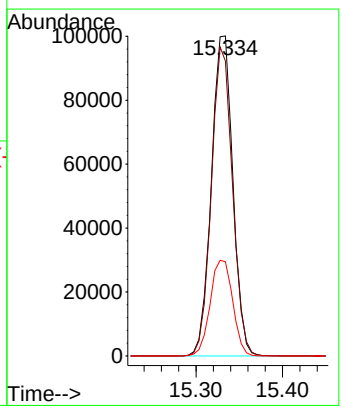
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.408 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022021.D
Acq: 28 Apr 2025 09:59

Tgt Ion:180 Resp: 172423

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.1	144.4
145	31.3	16.0	48.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
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 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	0.426	0.366	14.1	92	0.00
3	P	Chloromethane	0.607	0.548	9.7	90	0.00
4	C	Vinyl Chloride	0.745	0.678	9.0#	92	0.00
5	T	Bromomethane	0.642	0.537	16.4	89	0.00
6	T	Chloroethane	0.508	0.463	8.9	92	0.00
7	T	Trichlorofluoromethane	0.983	0.891	9.4	92	0.00
8	T	Diethyl Ether	0.256	0.223	12.9	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.533	0.478	10.3	96	0.00
10	T	Methyl Iodide	0.617	0.580	6.0	91	0.00
11	T	Tert butyl alcohol	0.025	0.023	8.0	86	-0.01
12	CM	1,1-Dichloroethene	0.497	0.442	11.1#	92	0.00
13	T	Acrolein	0.046	0.025	45.7#	58	0.00
14	T	Allyl chloride	0.579	0.516	10.9	92	0.00
15	T	Acrylonitrile	0.094	0.086	8.5	91	0.00
16	T	Acetone	0.070	0.058	17.1	91	0.00
17	T	Carbon Disulfide	1.585	1.429	9.8	94	0.00
18	T	Methyl Acetate	0.216	0.238	-10.2	105	0.00
19	T	Methyl tert-butyl Ether	1.113	1.036	6.9	90	0.00
20	T	Methylene Chloride	0.584	0.493	15.6	91	0.00
21	T	trans-1,2-Dichloroethene	0.557	0.513	7.9	95	0.01
22	T	Diisopropyl ether	1.288	1.218	5.4	93	0.00
23	T	Vinyl Acetate	0.694	0.637	8.2	88	0.00
24	P	1,1-Dichloroethane	0.893	0.812	9.1	94	0.00
25	T	2-Butanone	0.105	0.096	8.6	90	0.00
26	T	2,2-Dichloropropane	0.782	0.716	8.4	95	0.00
27	T	cis-1,2-Dichloroethene	0.622	0.571	8.2	92	0.00
28	T	Bromochloromethane	0.347	0.325	6.3	93	0.00
29	T	Tetrahydrofuran	0.068	0.067	1.5	90	0.00
30	C	Chloroform	0.990	0.923	6.8#	95	0.00
31	T	Cyclohexane	0.763	0.668	12.5	93	0.00
32	T	1,1,1-Trichloroethane	0.896	0.830	7.4	96	0.00
33	S	1,2-Dichloroethane-d4	0.462	0.422	8.7	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
35	S	Dibromofluoromethane	0.330	0.326	1.2	92	0.00
36	T	1,1-Dichloropropene	0.444	0.437	1.6	95	0.00
37	T	Ethyl Acetate	0.159	0.157	1.3	90	0.00
38	T	Carbon Tetrachloride	0.530	0.533	-0.6	97	0.00
39	T	Methylcyclohexane	0.558	0.536	3.9	90	0.00
40	TM	Benzene	1.387	1.363	1.7	95	0.00
41	T	Methacrylonitrile	0.087	0.088	-1.1	89	0.00
42	TM	1,2-Dichloroethane	0.343	0.340	0.9	94	0.00
43	T	Isopropyl Acetate	0.306	0.295	3.6	88	0.00
44	TM	Trichloroethene	0.384	0.372	3.1	94	0.00
45	C	1,2-Dichloropropane	0.307	0.301	2.0#	93	0.00
46	T	Dibromomethane	0.192	0.192	0.0	95	0.00
47	T	Bromodichloromethane	0.480	0.481	-0.2	95	0.00
48	T	Methyl methacrylate	0.141	0.144	-2.1	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
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 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	93	0.00
50	S	Toluene-d8	1.245	1.244	0.1	90	0.00
51	T	4-Methyl-2-Pentanone	0.160	0.169	-5.6	91	0.00
52	CM	Toluene	0.898	0.912	-1.6#	95	0.00
53	T	t-1,3-Dichloropropene	0.411	0.414	-0.7	92	0.00
54	T	cis-1,3-Dichloropropene	0.489	0.489	0.0	94	0.00
55	T	1,1,2-Trichloroethane	0.256	0.263	-2.7	95	0.00
56	T	Ethyl methacrylate	0.293	0.298	-1.7	88	0.00
57	T	1,3-Dichloropropane	0.411	0.414	-0.7	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.143	0.157	-9.8	91	0.00
59	T	2-Hexanone	0.106	0.113	-6.6	91	0.00
60	T	Dibromochloromethane	0.355	0.367	-3.4	97	0.00
61	T	1,2-Dibromoethane	0.242	0.251	-3.7	97	0.00
62	S	4-Bromofluorobenzene	0.419	0.422	-0.7	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64	T	Tetrachloroethene	0.472	0.461	2.3	96	0.00
65	PM	Chlorobenzene	1.118	1.077	3.7	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.392	0.5	97	0.00
67	C	Ethyl Benzene	1.829	1.803	1.4#	94	0.00
68	T	m/p-Xylenes	0.728	0.739	-1.5	96	0.00
69	T	o-Xylene	0.671	0.674	-0.4	93	0.00
70	T	Styrene	1.126	1.164	-3.4	95	0.00
71	P	Bromoform	0.229	0.236	-3.1	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.341	3.228	3.4	94	0.00
74	T	N-amyl acetate	0.574	0.524	8.7	86	0.00
75	P	1,1,2,2-Tetrachloroethane	0.563	0.540	4.1	95	0.00
76	T	1,2,3-Trichloropropane	0.428	0.410	4.2	98	0.00
77	T	Bromobenzene	0.844	0.811	3.9	95	0.00
78	T	n-propylbenzene	3.978	3.852	3.2	94	0.00
79	T	2-Chlorotoluene	2.314	2.191	5.3	93	0.00
80	T	1,3,5-Trimethylbenzene	2.752	2.721	1.1	94	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.164	7.9	90	0.00
82	T	4-Chlorotoluene	2.405	2.314	3.8	94	0.00
83	T	tert-Butylbenzene	2.468	2.368	4.1	92	0.00
84	T	1,2,4-Trimethylbenzene	2.753	2.736	0.6	95	0.00
85	T	sec-Butylbenzene	3.612	3.492	3.3	94	0.00
86	T	p-Isopropyltoluene	3.067	3.013	1.8	94	0.00
87	T	1,3-Dichlorobenzene	1.714	1.651	3.7	97	0.00
88	T	1,4-Dichlorobenzene	1.698	1.606	5.4	96	0.00
89	T	n-Butylbenzene	2.742	2.598	5.3	92	0.00
90	T	Hexachloroethane	0.674	0.626	7.1	95	0.00
91	T	1,2-Dichlorobenzene	1.495	1.436	3.9	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.090	0.086	4.4	99	0.00
93	T	1,2,4-Trichlorobenzene	0.847	0.815	3.8	96	0.00
94	T	Hexachlorobutadiene	0.521	0.499	4.2	101	0.00
95	T	Naphthalene	1.408	1.399	0.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
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 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	0.731	0.723	1.1	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
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 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	50.000	42.991	14.0	92	0.00
3	P	Chloromethane	50.000	45.163	9.7	90	0.00
4	C	Vinyl Chloride	50.000	45.482	9.0#	92	0.00
5	T	Bromomethane	50.000	41.794	16.4	89	0.00
6	T	Chloroethane	50.000	45.558	8.9	92	0.00
7	T	Trichlorofluoromethane	50.000	45.316	9.4	92	0.00
8	T	Diethyl Ether	50.000	43.651	12.7	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.780	10.4	96	0.00
10	T	Methyl Iodide	50.000	46.967	6.1	91	0.00
11	T	Tert butyl alcohol	250.000	223.960	10.4	86	-0.01
12	CM	1,1-Dichloroethene	50.000	44.447	11.1#	92	0.00
13	T	Acrolein	250.000	138.423	44.6#	58	0.00
14	T	Allyl chloride	50.000	44.547	10.9	92	0.00
15	T	Acrylonitrile	250.000	229.455	8.2	91	0.00
16	T	Acetone	250.000	238.658	4.5	91	0.00
17	T	Carbon Disulfide	50.000	45.091	9.8	94	0.00
18	T	Methyl Acetate	50.000	55.156	-10.3	105	0.00
19	T	Methyl tert-butyl Ether	50.000	46.559	6.9	90	0.00
20	T	Methylene Chloride	50.000	42.205	15.6	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.106	7.8	95	0.01
22	T	Diisopropyl ether	50.000	47.287	5.4	93	0.00
23	T	Vinyl Acetate	250.000	229.383	8.2	88	0.00
24	P	1,1-Dichloroethane	50.000	45.472	9.1	94	0.00
25	T	2-Butanone	250.000	227.698	8.9	90	0.00
26	T	2,2-Dichloropropane	50.000	45.744	8.5	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.895	8.2	92	0.00
28	T	Bromochloromethane	50.000	46.794	6.4	93	0.00
29	T	Tetrahydrofuran	250.000	244.304	2.3	90	0.00
30	C	Chloroform	50.000	46.592	6.8#	95	0.00
31	T	Cyclohexane	50.000	43.769	12.5	93	0.00
32	T	1,1,1-Trichloroethane	50.000	46.308	7.4	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.703	8.6	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	93	0.00
35	S	Dibromofluoromethane	50.000	49.299	1.4	92	0.00
36	T	1,1-Dichloropropene	50.000	49.257	1.5	95	0.00
37	T	Ethyl Acetate	50.000	49.244	1.5	90	0.00
38	T	Carbon Tetrachloride	50.000	50.250	-0.5	97	0.00
39	T	Methylcyclohexane	50.000	47.952	4.1	90	0.00
40	TM	Benzene	50.000	49.146	1.7	95	0.00
41	T	Methacrylonitrile	50.000	50.745	-1.5	89	0.00
42	TM	1,2-Dichloroethane	50.000	49.487	1.0	94	0.00
43	T	Isopropyl Acetate	50.000	48.136	3.7	88	0.00
44	TM	Trichloroethene	50.000	48.422	3.2	94	0.00
45	C	1,2-Dichloropropane	50.000	49.124	1.8#	93	0.00
46	T	Dibromomethane	50.000	49.917	0.2	95	0.00
47	T	Bromodichloromethane	50.000	50.140	-0.3	95	0.00
48	T	Methyl methacrylate	50.000	51.025	-2.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
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 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	990.448	1.0	93	0.00
50	S	Toluene-d8	50.000	49.941	0.1	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	262.978	-5.2	91	0.00
52	CM	Toluene	50.000	50.774	-1.5#	95	0.00
53	T	t-1,3-Dichloropropene	50.000	50.300	-0.6	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.030	-0.1	94	0.00
55	T	1,1,2-Trichloroethane	50.000	51.210	-2.4	95	0.00
56	T	Ethyl methacrylate	50.000	50.883	-1.8	88	0.00
57	T	1,3-Dichloropropane	50.000	50.313	-0.6	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	274.205	-9.7	91	0.00
59	T	2-Hexanone	250.000	266.294	-6.5	91	0.00
60	T	Dibromochloromethane	50.000	51.661	-3.3	97	0.00
61	T	1,2-Dibromoethane	50.000	51.898	-3.8	97	0.00
62	S	4-Bromofluorobenzene	50.000	50.288	-0.6	92	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	48.844	2.3	96	0.00
65	PM	Chlorobenzene	50.000	48.139	3.7	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.785	0.4	97	0.00
67	C	Ethyl Benzene	50.000	49.296	1.4#	94	0.00
68	T	m/p-Xylenes	100.000	101.477	-1.5	96	0.00
69	T	o-Xylene	50.000	50.257	-0.5	93	0.00
70	T	Styrene	50.000	51.691	-3.4	95	0.00
71	P	Bromoform	50.000	51.502	-3.0	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	48.321	3.4	94	0.00
74	T	N-amyl acetate	50.000	45.653	8.7	86	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.921	4.2	95	0.00
76	T	1,2,3-Trichloropropane	50.000	47.871	4.3	98	0.00
77	T	Bromobenzene	50.000	48.026	3.9	95	0.00
78	T	n-propylbenzene	50.000	48.417	3.2	94	0.00
79	T	2-Chlorotoluene	50.000	47.359	5.3	93	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.434	1.1	94	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.220	7.6	90	0.00
82	T	4-Chlorotoluene	50.000	48.113	3.8	94	0.00
83	T	tert-Butylbenzene	50.000	47.962	4.1	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.692	0.6	95	0.00
85	T	sec-Butylbenzene	50.000	48.338	3.3	94	0.00
86	T	p-Isopropyltoluene	50.000	49.118	1.8	94	0.00
87	T	1,3-Dichlorobenzene	50.000	48.150	3.7	97	0.00
88	T	1,4-Dichlorobenzene	50.000	47.284	5.4	96	0.00
89	T	n-Butylbenzene	50.000	47.376	5.2	92	0.00
90	T	Hexachloroethane	50.000	46.466	7.1	95	0.00
91	T	1,2-Dichlorobenzene	50.000	48.011	4.0	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.111	3.8	99	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.066	3.9	96	0.00
94	T	Hexachlorobutadiene	50.000	47.878	4.2	101	0.00
95	T	Naphthalene	50.000	49.688	0.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022021.D
Acq On : 28 Apr 2025 09:59
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 29 03:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	49.408	1.2	99	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: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date/Time: 04/29/2025 09:28

Lab File ID: VY022046.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.426	0.371		-12.91	20
Chloromethane	0.607	0.532	0.1	-12.36	20
Vinyl Chloride	0.745	0.666		-10.6	20
Ethyl Acetate	0.159	0.152		-4.4	20
Isopropyl Acetate	0.306	0.284		-7.19	20
Bromomethane	0.642	0.514		-19.94	20
Chloroethane	0.508	0.429		-15.55	20
Tetrahydrofuran	0.068	0.063		-7.35	20
Trichlorofluoromethane	0.983	0.856		-12.92	20
1,1,2-Trichlorotrifluoroethane	0.533	0.466		-12.57	20
Tert butyl alcohol	0.025	0.023		-8	20
Diethyl Ether	0.256	0.216		-15.63	20
1,1-Dichloroethene	0.497	0.442		-11.07	20
Acrolein	0.046	0.043		-6.52	20
Acrylonitrile	0.094	0.084		-10.64	20
Acetone	0.070	0.065		-7.14	20
Carbon Disulfide	1.585	1.366		-13.82	20
Methyl tert-butyl Ether	1.113	1.008		-9.43	20
Methyl Acetate	0.216	0.209		-3.24	20
Methylene Chloride	0.584	0.468		-19.86	20
trans-1,2-Dichloroethene	0.557	0.489		-12.21	20
Vinyl Acetate	0.694	0.630		-9.22	20
1,1-Dichloroethane	0.893	0.776	0.1	-13.1	20
Cyclohexane	0.763	0.661		-13.37	20
2-Butanone	0.105	0.098		-6.67	20
Carbon Tetrachloride	0.530	0.509		-3.96	20
2,2-Dichloropropane	0.782	0.709		-9.34	20
cis-1,2-Dichloroethene	0.622	0.558		-10.29	20
Bromochloromethane	0.347	0.322		-7.2	20
Chloroform	0.990	0.877		-11.41	20
1,1,1-Trichloroethane	0.896	0.789		-11.94	20
Methylcyclohexane	0.558	0.529		-5.2	20
1,1-Dichloropropene	0.444	0.412		-7.21	20
Benzene	1.387	1.301		-6.2	20
1,2-Dichloroethane	0.343	0.319		-7	20
Trichloroethene	0.384	0.360		-6.25	20
1,2-Dichloropropane	0.307	0.287		-6.51	20
Dibromomethane	0.192	0.181		-5.73	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date/Time: 04/29/2025 09:28

Lab File ID: VY022046.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromodichloromethane	0.480	0.457		-4.79	20
4-Methyl-2-Pentanone	0.160	0.161		0.63	20
Methyl methacrylate	0.141	0.139		-1.42	20
Toluene	0.898	0.870		-3.12	20
t-1,3-Dichloropropene	0.411	0.393		-4.38	20
cis-1,3-Dichloropropene	0.489	0.462		-5.52	20
1,1,2-Trichloroethane	0.256	0.247		-3.52	20
1,3-Dichloropropane	0.411	0.395		-3.89	20
2-Chloroethyl Vinyl ether	0.143	0.152		6.29	20
2-Hexanone	0.106	0.109		2.83	20
Dibromochloromethane	0.355	0.349		-1.69	20
1,2-Dibromoethane	0.242	0.236		-2.48	20
Tetrachloroethene	0.472	0.449		-4.87	20
Chlorobenzene	1.118	1.034	0.3	-7.51	20
1,1,1,2-Tetrachloroethane	0.394	0.367		-6.85	20
Hexachloroethane	0.674	0.613		-9.05	20
Ethyl Benzene	1.829	1.744		-4.65	20
m/p-Xylenes	0.728	0.712		-2.2	20
o-Xylene	0.671	0.649		-3.28	20
Styrene	1.126	1.110		-1.42	20
Bromoform	0.229	0.224	0.1	-2.18	20
Isopropylbenzene	3.341	3.152		-5.66	20
1,1,2,2-Tetrachloroethane	0.563	0.517	0.3	-8.17	20
1,2,3-Trichloropropane	0.428	0.403		-5.84	20
Bromobenzene	0.844	0.794		-5.92	20
n-propylbenzene	3.978	3.763		-5.41	20
2-Chlorotoluene	2.314	2.139		-7.56	20
1,3,5-Trimethylbenzene	2.752	2.633		-4.32	20
4-Chlorotoluene	2.405	2.260		-6.03	20
tert-Butylbenzene	2.469	2.334		-5.47	20
1,2,4-Trimethylbenzene	2.753	2.637		-4.21	20
sec-Butylbenzene	3.612	3.431		-5.01	20
p-Isopropyltoluene	3.067	2.964		-3.36	20
1,3-Dichlorobenzene	1.714	1.588		-7.35	20
1,4-Dichlorobenzene	1.698	1.573		-7.36	20
n-Butylbenzene	2.742	2.563		-6.53	20
1,2-Dichlorobenzene	1.495	1.376		-7.96	20
1,2-Dibromo-3-Chloropropane	0.090	0.080		-11.11	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: ALLI03

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: MSVOA_Y Calibration Date/Time: 04/29/2025 09:28

Lab File ID: VY022046.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,2,4-Trichlorobenzene	0.847	0.803		-5.2	20
Hexachlorobutadiene	0.521	0.484		-7.1	20
Naphthalene	1.408	1.372		-2.56	20
1,2,3-Trichlorobenzene	0.731	0.700		-4.24	20
1,2-Dichloroethane-d4	0.462	0.402		-12.99	20
Dibromofluoromethane	0.330	0.314		-4.85	20
Toluene-d8	1.245	1.202		-3.45	20
4-Bromofluorobenzene	0.419	0.404		-3.58	20
N-amyl acetate	0.574	0.524		-8.71	20
Methyl Iodide	0.617	0.574		-6.97	20
Allyl chloride	0.579	0.501		-13.47	20
trans-1,4-Dichloro-2-butene	0.178	0.163		-8.43	20
Methacrylonitrile	0.087	0.072		-17.24	20
Diisopropyl ether	1.288	1.156		-10.25	20
1,4-Dioxane	2.047	2.041	0.05	-0.29	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	330337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	485397	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	453549	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	245911	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	132828	43.532	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	87.060%		
35) Dibromofluoromethane	7.634	113	152279	47.486	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.980%		
50) Toluene-d8	10.109	98	583606	48.273	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.540%		
62) 4-Bromofluorobenzene	12.408	95	195893	48.133	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	96.260%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	122464	43.507	ug/l	99
3) Chloromethane	2.068	50	175705	43.839	ug/l	99
4) Vinyl Chloride	2.202	62	219850	44.638	ug/l	99
5) Bromomethane	2.598	94	169641	39.979	ug/l	95
6) Chloroethane	2.732	64	141865	42.293	ug/l	98
7) Trichlorofluoromethane	3.056	101	282628	43.517	ug/l	97
8) Diethyl Ether	3.452	74	71445	42.265	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	153834	43.664	ug/l	99
10) Methyl Iodide	4.001	142	189693	46.504	ug/l	100
11) Tert butyl alcohol	4.872	59	37456	223.602	ug/l	99
12) 1,1-Dichloroethene	3.787	96	145943	44.442	ug/l	98
13) Acrolein	3.653	56	70343	233.968	ug/l	98
14) Allyl chloride	4.385	41	165590	43.306	ug/l	99
15) Acrylonitrile	5.061	53	138019	223.027	ug/l	99
16) Acetone	3.873	43	107650	271.364	ug/l	93
17) Carbon Disulfide	4.104	76	451363	43.107	ug/l	99
18) Methyl Acetate	4.391	43	68974	48.392	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	333065	45.315	ug/l	97
20) Methylene Chloride	4.616	84	154498	40.043	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	161542	43.924	ug/l	98
22) Diisopropyl ether	6.019	45	382029	44.895	ug/l	99
23) Vinyl Acetate	5.958	43	1039804	226.736	ug/l	99
24) 1,1-Dichloroethane	5.915	63	256272	43.448	ug/l	99
25) 2-Butanone	6.896	43	161708	232.499	ug/l	99
26) 2,2-Dichloropropane	6.884	77	234207	45.304	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	184250	44.805	ug/l	99
28) Bromochloromethane	7.244	49	106431	46.456	ug/l	97
29) Tetrahydrofuran	7.262	42	104861	232.133	ug/l	97
30) Chloroform	7.421	83	289823	44.298	ug/l	99
31) Cyclohexane	7.701	56	218435	43.306	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	260780	44.057	ug/l	99
36) 1,1-Dichloropropene	7.835	75	200053	46.442	ug/l	99
37) Ethyl Acetate	6.988	43	73636	47.597	ug/l	99
38) Carbon Tetrachloride	7.817	117	247130	48.012	ug/l	97
39) Methylcyclohexane	9.109	83	256540	47.325	ug/l	97
40) Benzene	8.079	78	631609	46.906	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	35008	41.395	ug/l	#	84
42) 1,2-Dichloroethane	8.158	62	154947	46.477	ug/l		99
43) Isopropyl Acetate	8.195	43	137822	46.389	ug/l	#	85
44) Trichloroethene	8.866	130	174874	46.887	ug/l		98
45) 1,2-Dichloropropane	9.140	63	139252	46.764	ug/l		99
46) Dibromomethane	9.231	93	87764	47.082	ug/l		99
47) Bromodichloromethane	9.426	83	221624	47.592	ug/l		99
48) Methyl methacrylate	9.219	41	67675	49.274	ug/l		98
49) 1,4-Dioxane	9.231	88	19815	997.336	ug/l		91
51) 4-Methyl-2-Pentanone	9.999	43	390782	250.912	ug/l		100
52) Toluene	10.170	92	422459	48.468	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	190842	47.779	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	224035	47.184	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	119964	48.179	ug/l		97
56) Ethyl methacrylate	10.438	69	142098	49.904	ug/l		99
57) 1,3-Dichloropropane	10.719	76	191688	48.021	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	367778	264.171	ug/l		99
59) 2-Hexanone	10.762	43	264521	257.500	ug/l		100
60) Dibromochloromethane	10.914	129	169164	49.071	ug/l		100
61) 1,2-Dibromoethane	11.018	107	114653	48.774	ug/l		99
64) Tetrachloroethene	10.646	164	203863	47.647	ug/l		97
65) Chlorobenzene	11.444	112	468931	46.234	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	166562	46.647	ug/l		99
67) Ethyl Benzene	11.524	91	791052	47.678	ug/l		100
68) m/p-Xylenes	11.627	106	645425	97.760	ug/l		99
69) o-Xylene	11.956	106	294487	48.395	ug/l		98
70) Styrene	11.969	104	503254	49.256	ug/l		99
71) Bromoform	12.133	173	101395	48.842	ug/l	#	99
73) Isopropylbenzene	12.255	105	775025	47.173	ug/l		99
74) N-amyl acetate	12.072	43	128926	45.674	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	127155	45.905	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	99193m	47.092	ug/l		
77) Bromobenzene	12.536	156	195202	47.020	ug/l		98
78) n-propylbenzene	12.597	91	925377	47.296	ug/l		100
79) 2-Chlorotoluene	12.682	91	525989	46.226	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	647472	47.830	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	40197	45.956	ug/l		99
82) 4-Chlorotoluene	12.779	91	555774	46.986	ug/l		100
83) tert-Butylbenzene	12.999	119	573871	47.269	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	648390	47.887	ug/l		99
85) sec-Butylbenzene	13.176	105	843779	47.496	ug/l		100
86) p-Isopropyltoluene	13.292	119	728842	48.314	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	390607	46.325	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	386869	46.327	ug/l		98
89) n-Butylbenzene	13.621	91	630349	46.748	ug/l		99
90) Hexachloroethane	13.883	117	150746	45.482	ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	338387	46.013	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19628	44.539	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	197372	47.361	ug/l		99
94) Hexachlorobutadiene	15.023	225	118961	46.396	ug/l		99
95) Naphthalene	15.145	128	337462	48.746	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	172242	47.880	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

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\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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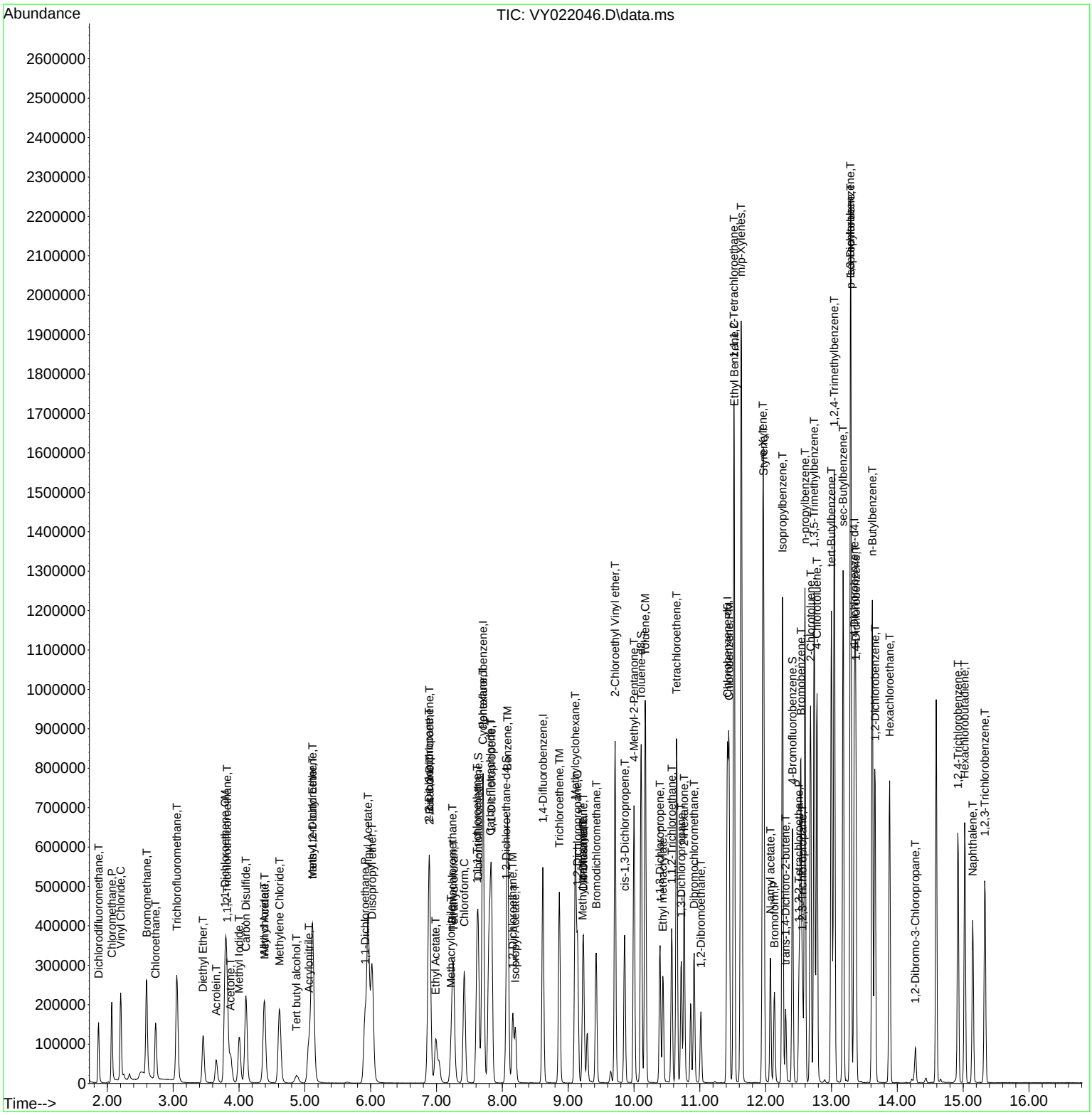
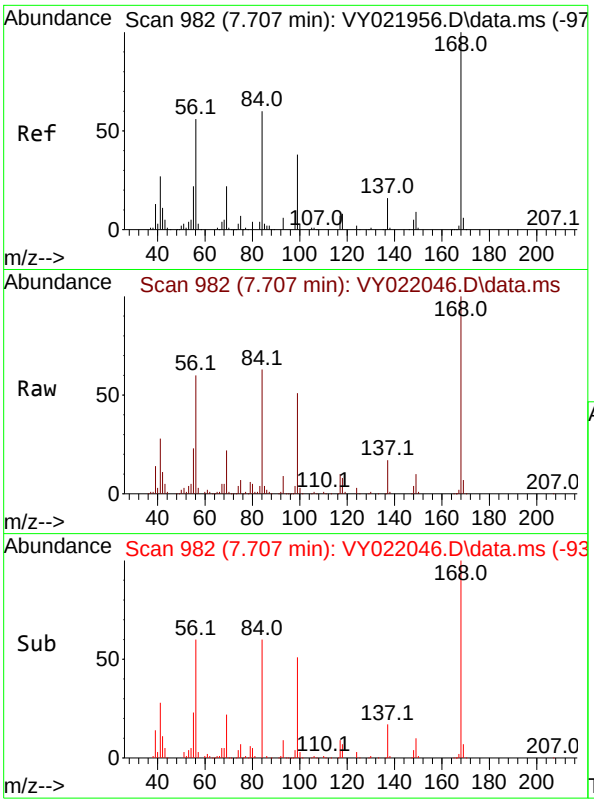
Supervised By :Mahesh Dadoda 04/30/2025

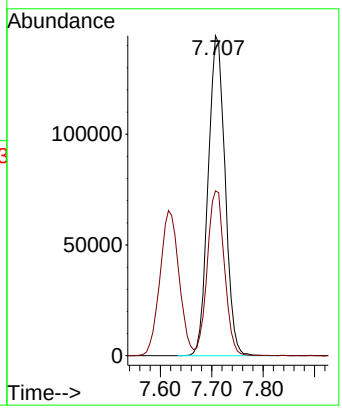




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:168 Resp: 33033

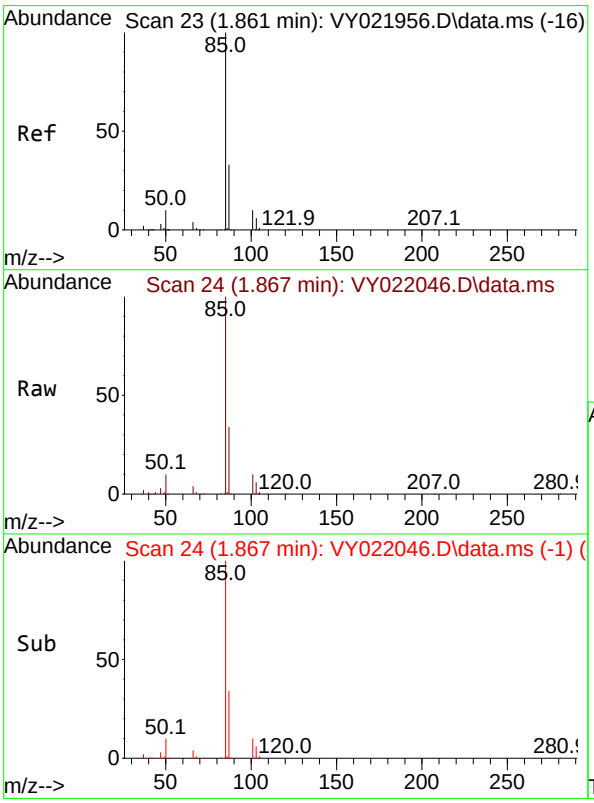
Ion	Ratio	Lower	Upper
168	100		
99	51.4	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

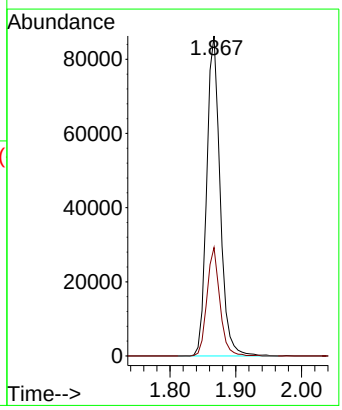
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

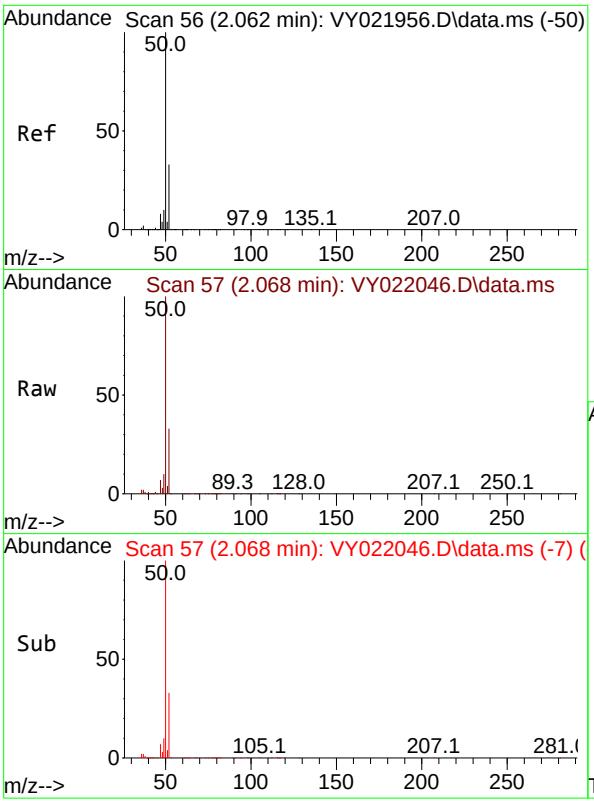


#2
Dichlorodifluoromethane
Concen: 43.507 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 85 Resp: 122464

Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.6	49.7

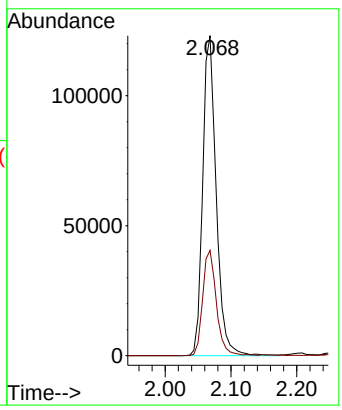




#3
Chloromethane
Concen: 43.839 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 50 Resp: 17570

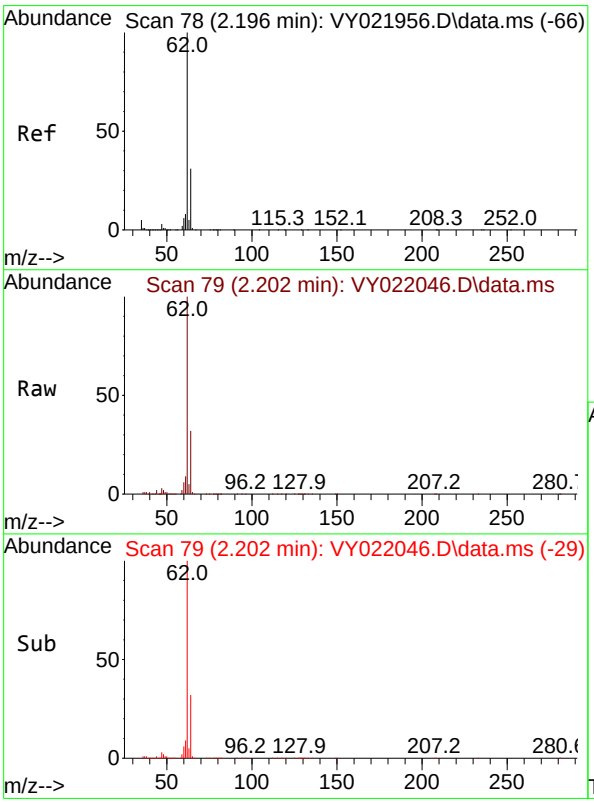
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

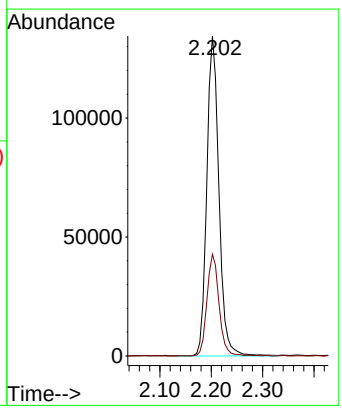
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

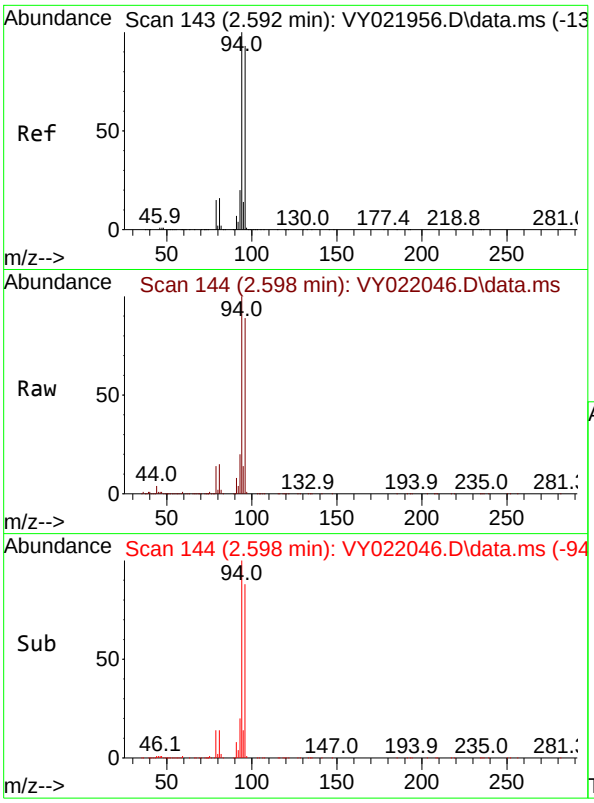


#4
Vinyl Chloride
Concen: 44.638 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 62 Resp: 219850

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.1	37.7

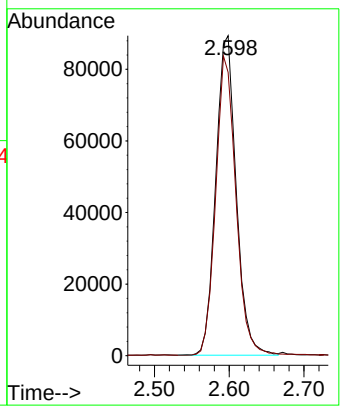




#5
Bromomethane
Concen: 39.979 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 94 Resp: 16964

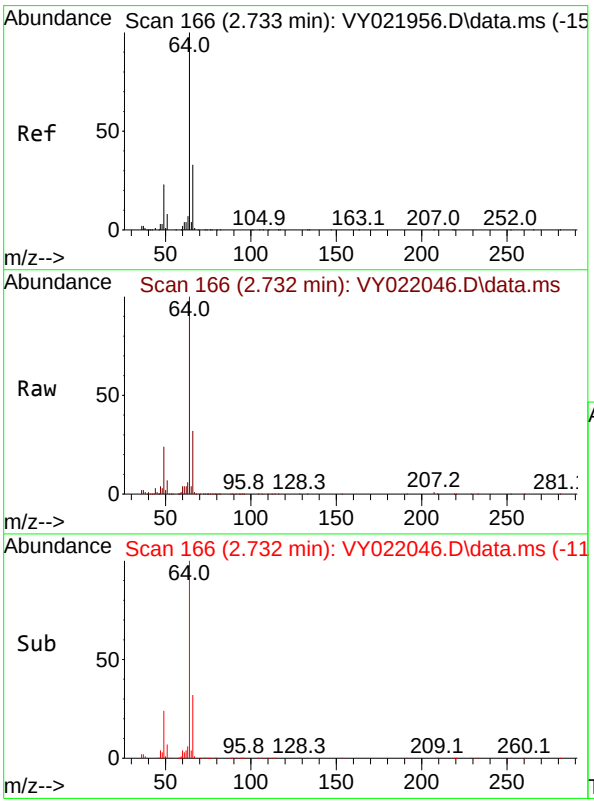
Ion	Ratio	Lower	Upper
94	100		
96	88.5	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

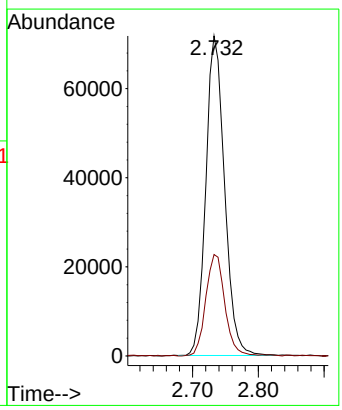
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

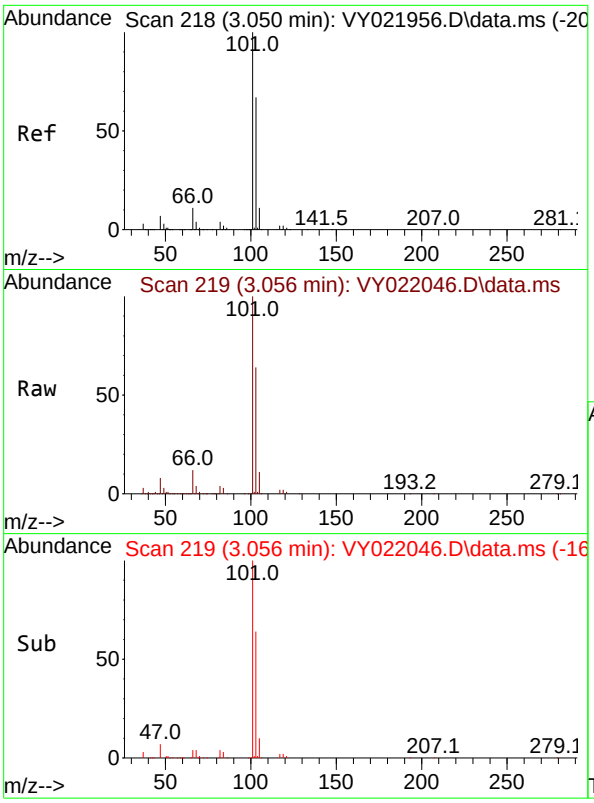


#6
Chloroethane
Concen: 42.293 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 64 Resp: 141865

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.2	39.4

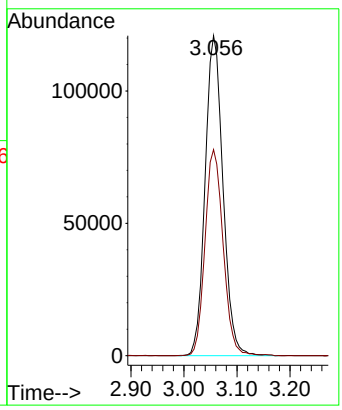




#7
Trichlorofluoromethane
Concen: 43.517 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:101 Resp: 28262

Ion	Ratio	Lower	Upper
101	100		
103	64.3	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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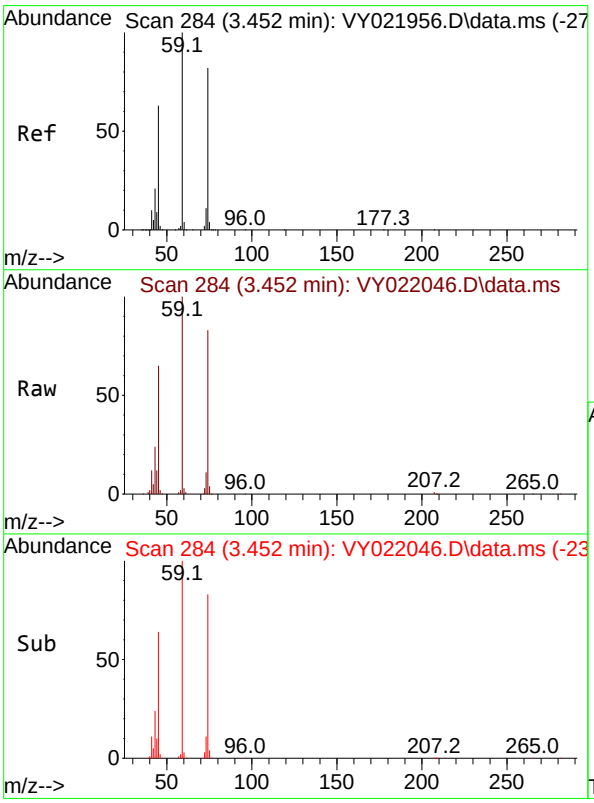
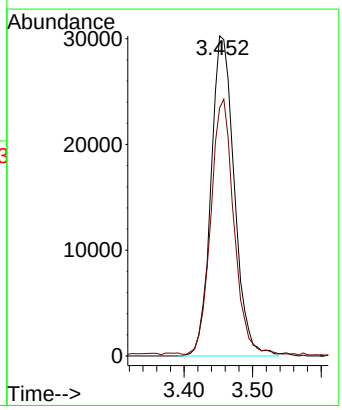
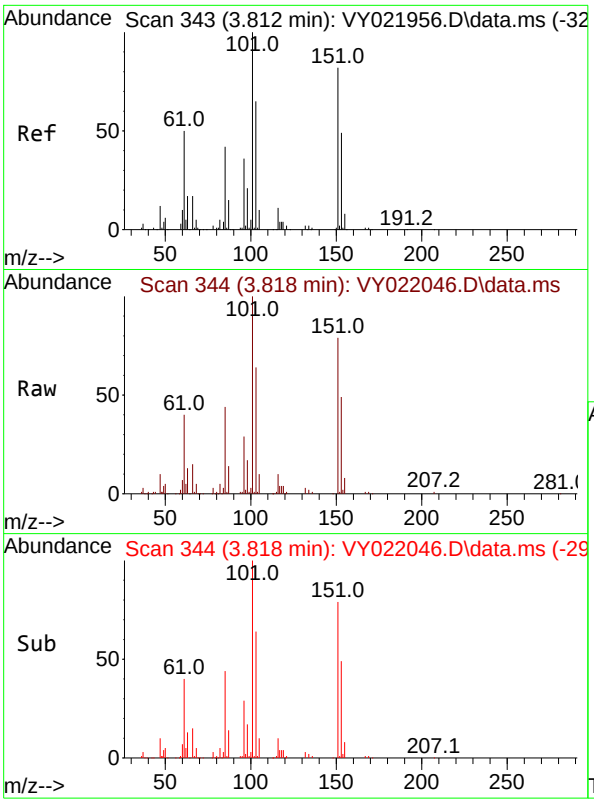


#8
Diethyl Ether
Concen: 42.265 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 74 Resp: 71445

Ion	Ratio	Lower	Upper
74	100		
45	79.3	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.664 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

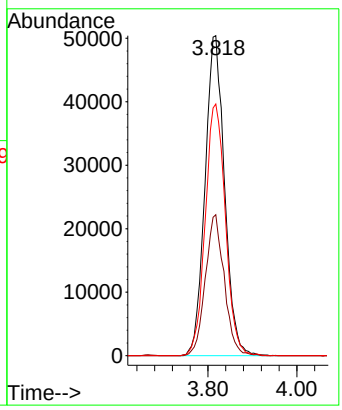
Tgt Ion:101 Resp: 15383

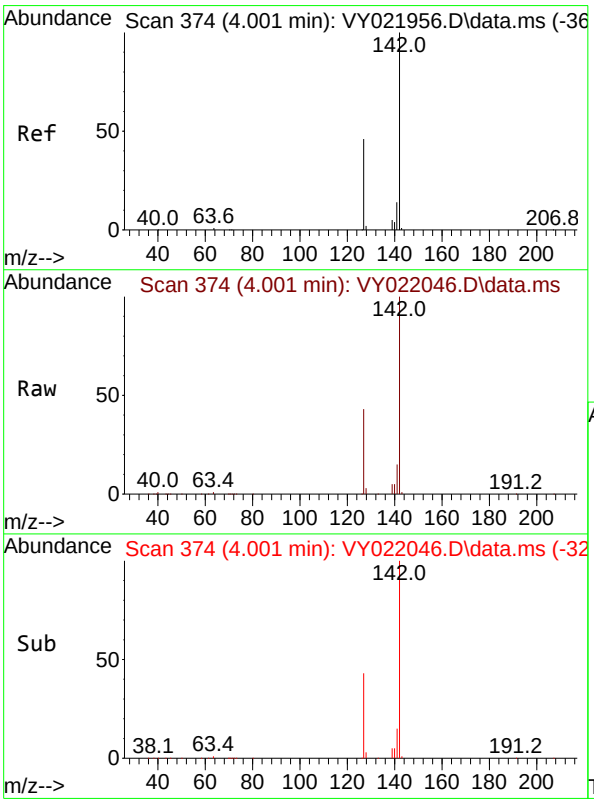
Ion	Ratio	Lower	Upper
101	100		
85	42.7	34.6	51.8
151	81.2	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

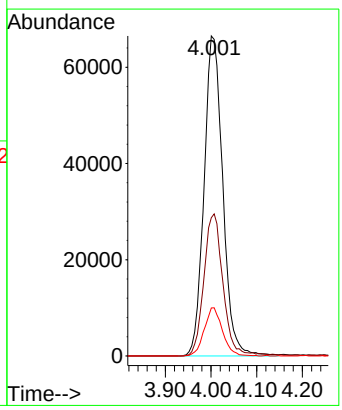


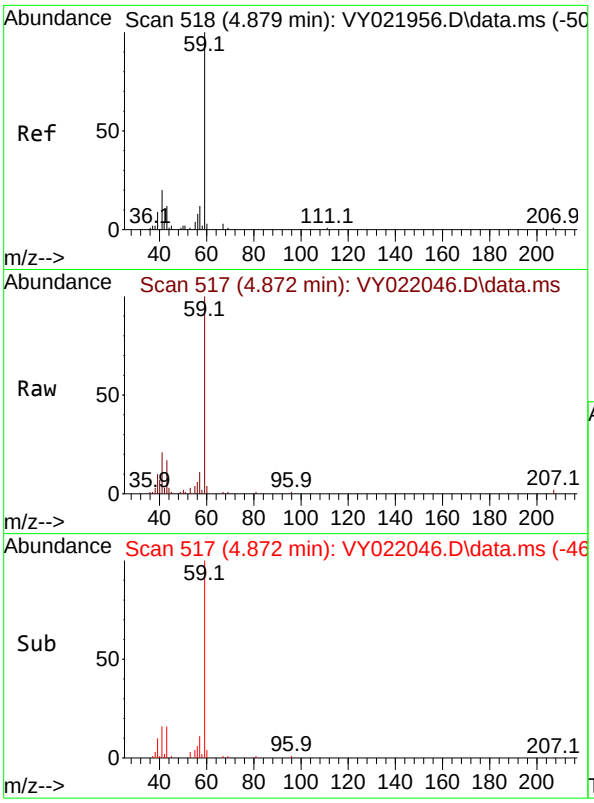


#10
Methyl Iodide
Concen: 46.504 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:142 Resp: 189693

Ion	Ratio	Lower	Upper
142	100		
127	45.2	36.2	54.2
141	14.6	11.7	17.5

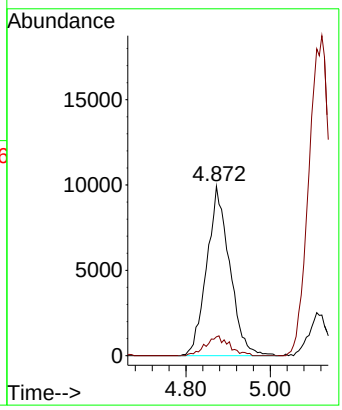




#11
Tert butyl alcohol
Concen: 223.602 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 59 Resp: 3745

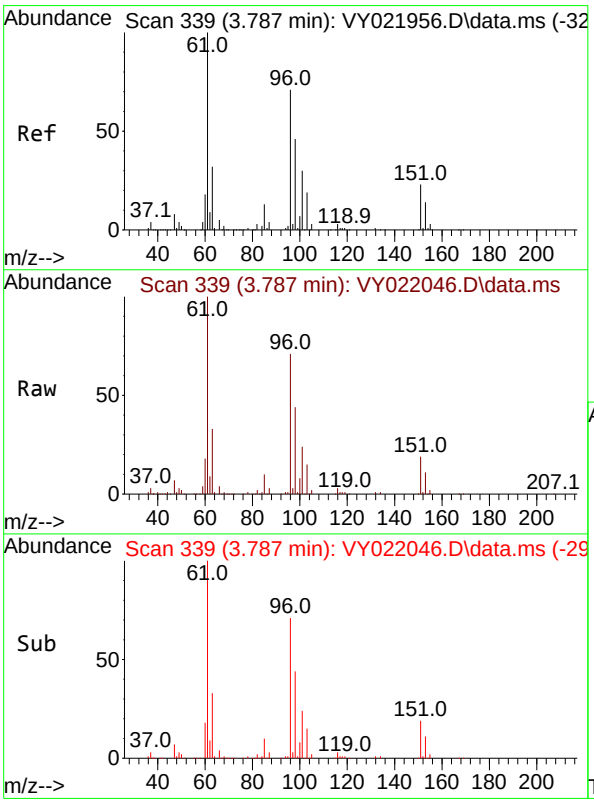
Ion	Ratio	Lower	Upper
59	100		
57	12.0	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

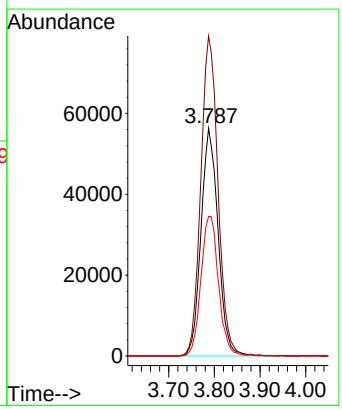
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

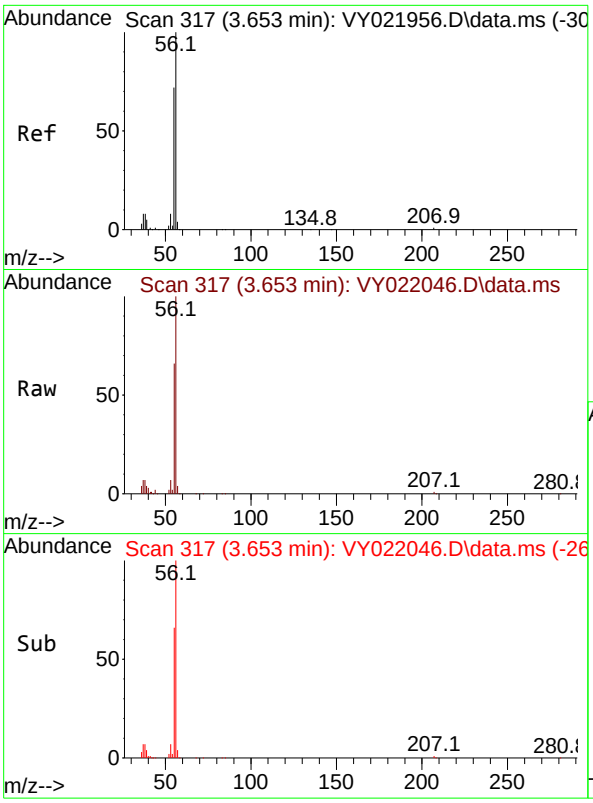


#12
1,1-Dichloroethene
Concen: 44.442 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 96 Resp: 145943

Ion	Ratio	Lower	Upper
96	100		
61	140.5	113.0	169.4
98	61.2	51.4	77.2

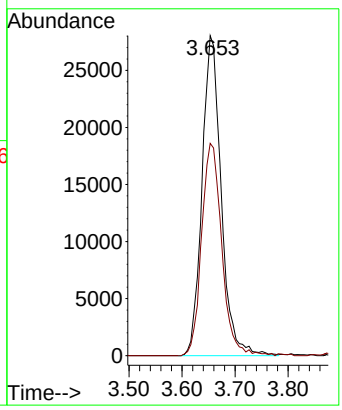




#13
Acrolein
Concen: 233.968 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 56 Resp: 7034

Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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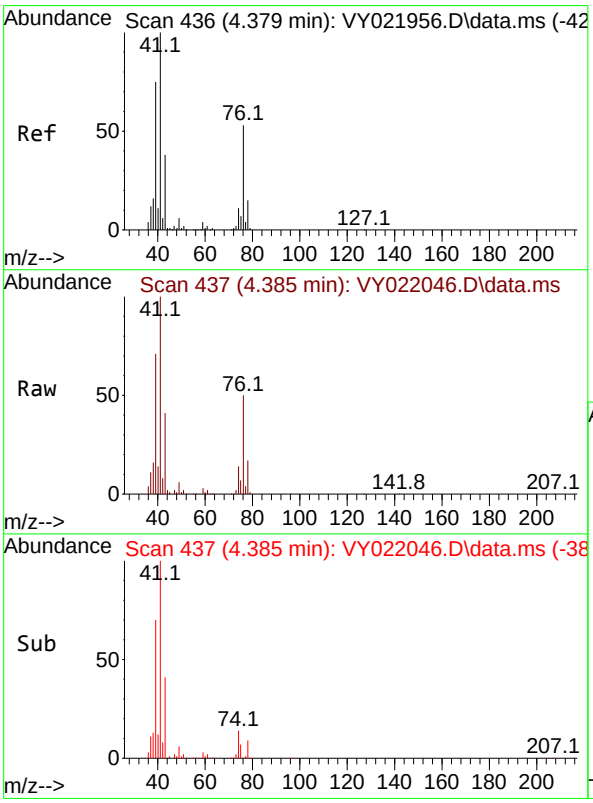
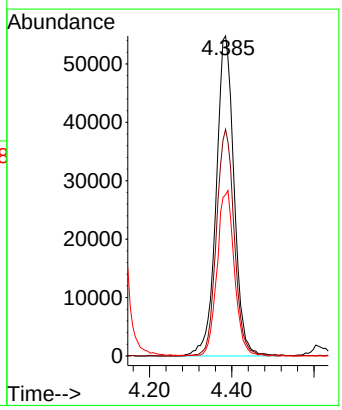
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

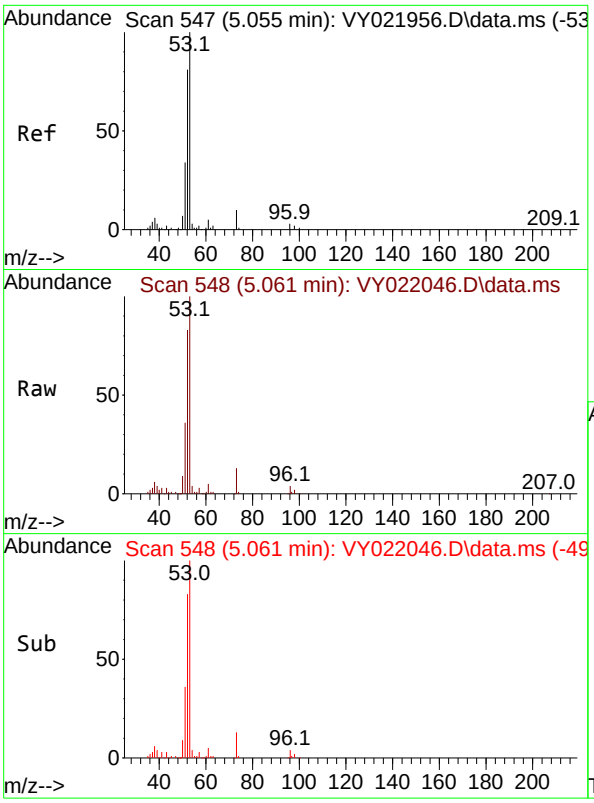


#14
Allyl chloride
Concen: 43.306 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 41 Resp: 165590

Ion	Ratio	Lower	Upper
41	100		
39	70.4	57.2	85.8
76	50.2	39.7	59.5

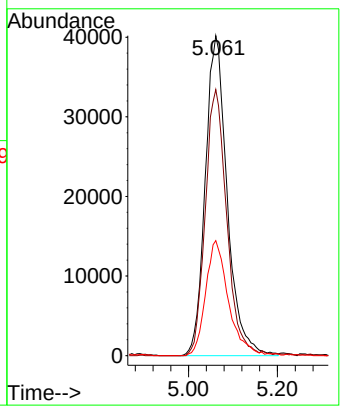




#15
Acrylonitrile
Concen: 223.027 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 53 Resp: 13801

Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.0	97.6
51	37.3	28.9	43.3



Instrument :
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ClientSampleId :
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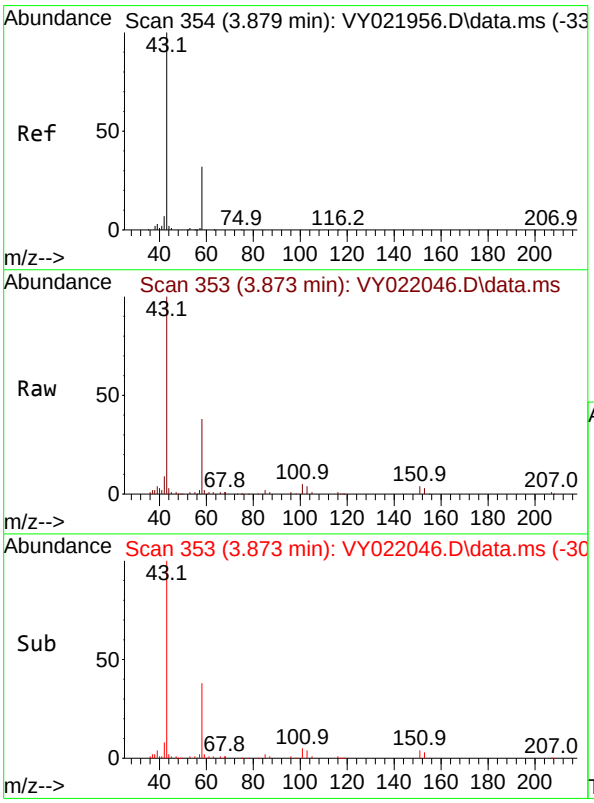
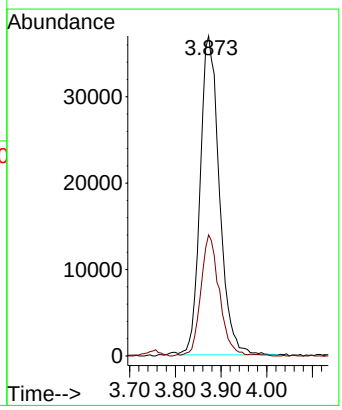
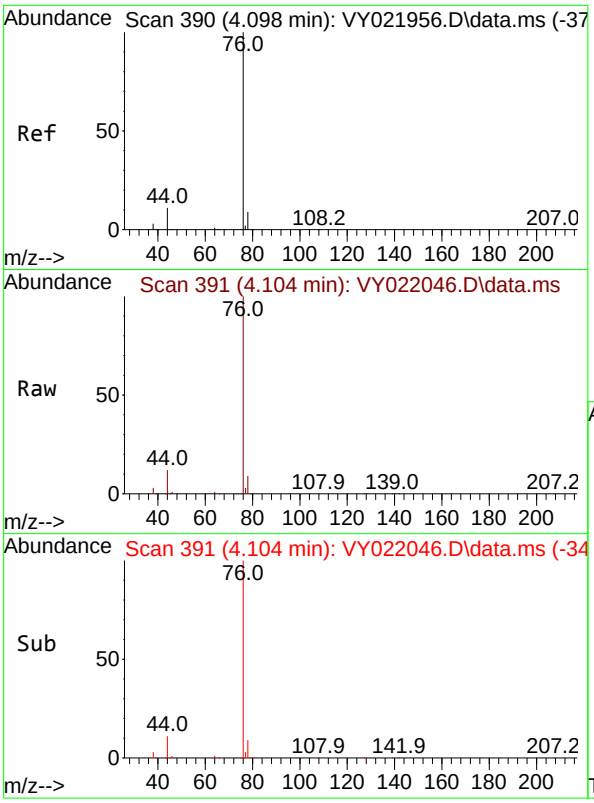


#16
Acetone
Concen: 271.364 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 107650

Ion	Ratio	Lower	Upper
43	100		
58	38.0	27.0	40.4

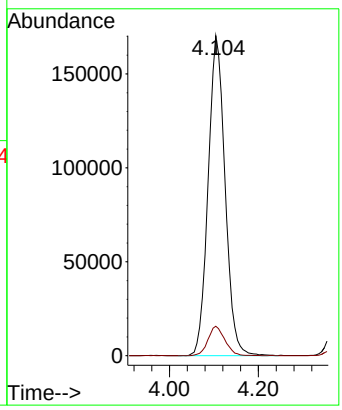




#17
Carbon Disulfide
Concen: 43.107 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 76 Resp: 45136

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4



Instrument :
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ClientSampleId :
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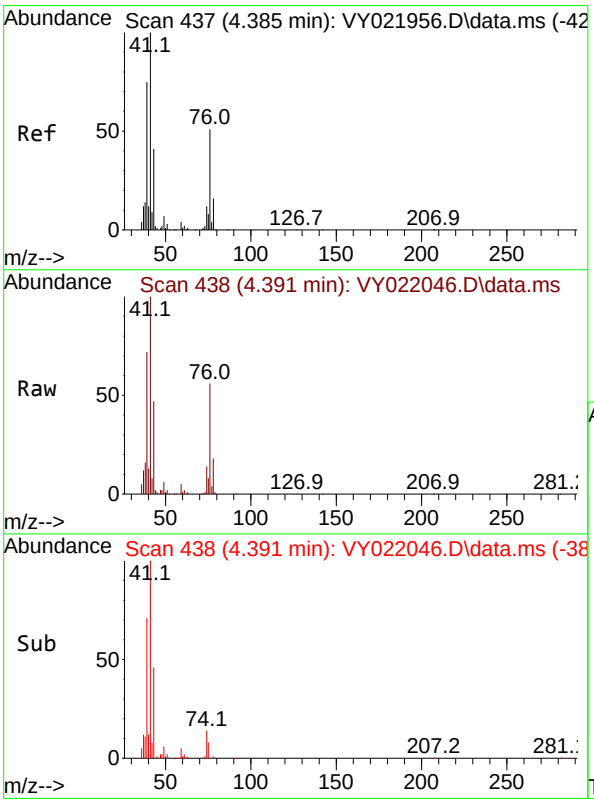
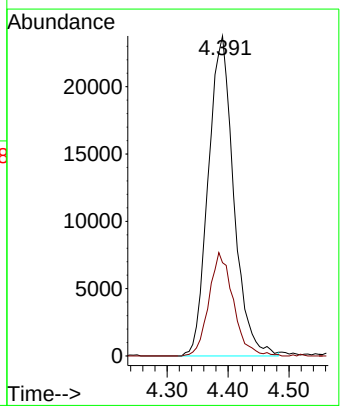
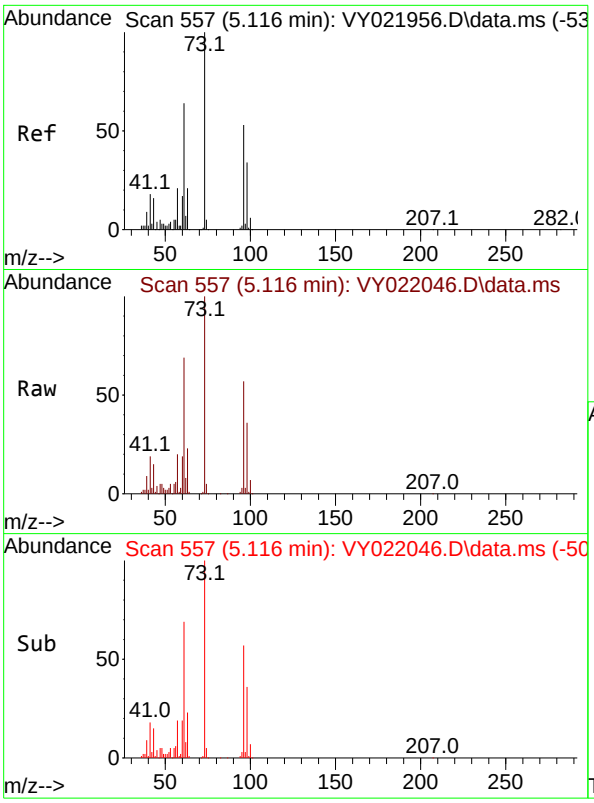


#18
Methyl Acetate
Concen: 48.392 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 68974

Ion	Ratio	Lower	Upper
43	100		
74	31.0	24.2	36.4

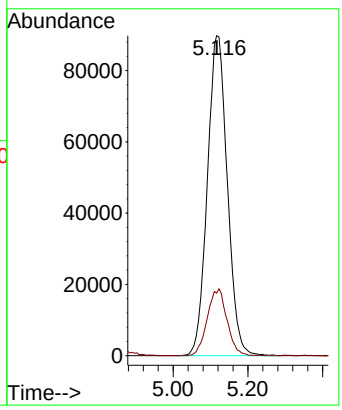




#19
Methyl tert-butyl Ether
Concen: 45.315 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 73 Resp: 33306

Ion	Ratio	Lower	Upper
73	100		
57	19.6	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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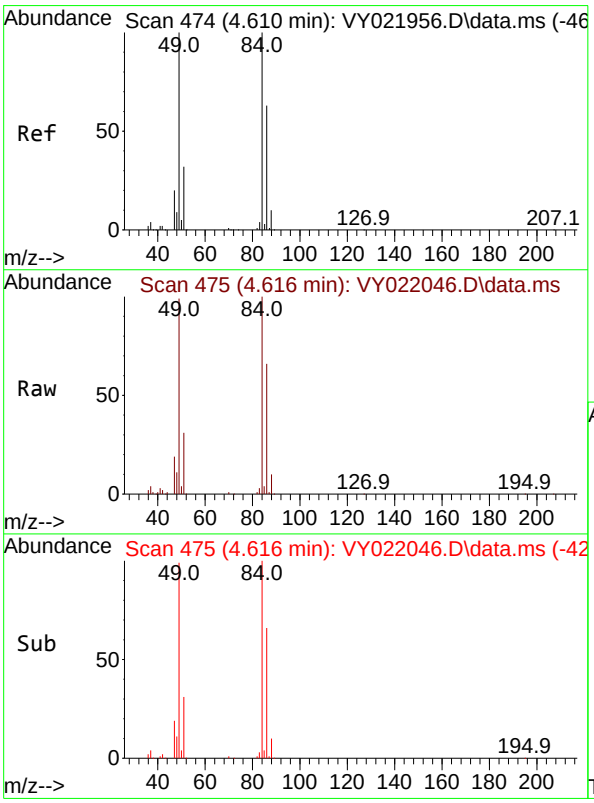
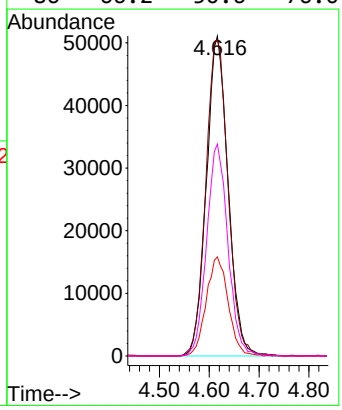
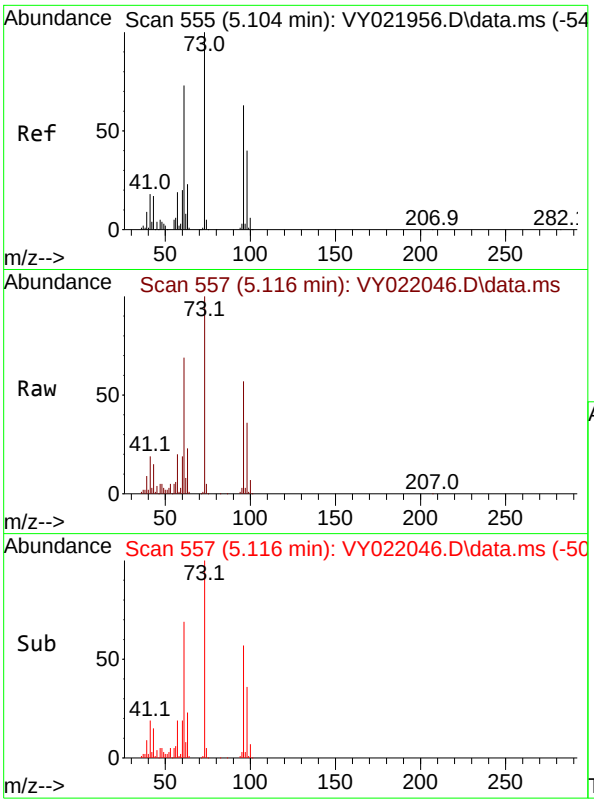


#20
Methylene Chloride
Concen: 40.043 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 84 Resp: 154498

Ion	Ratio	Lower	Upper
84	100		
49	98.9	79.9	119.9
51	31.0	25.4	38.0
86	66.2	50.6	76.0

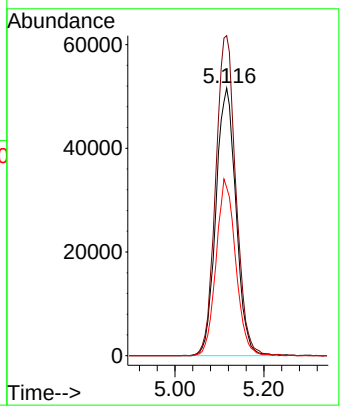




#21
trans-1,2-Dichloroethene
Concen: 43.924 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 96 Resp: 16154

Ion	Ratio	Lower	Upper
96	100		
61	119.5	92.6	138.8
98	62.8	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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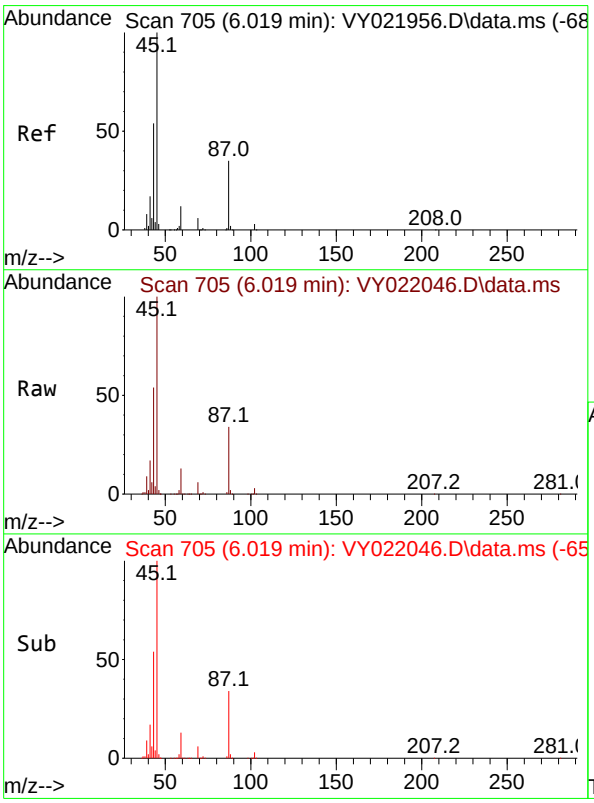
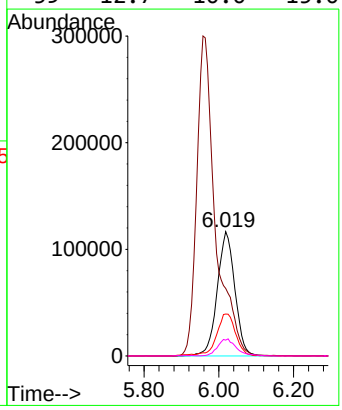
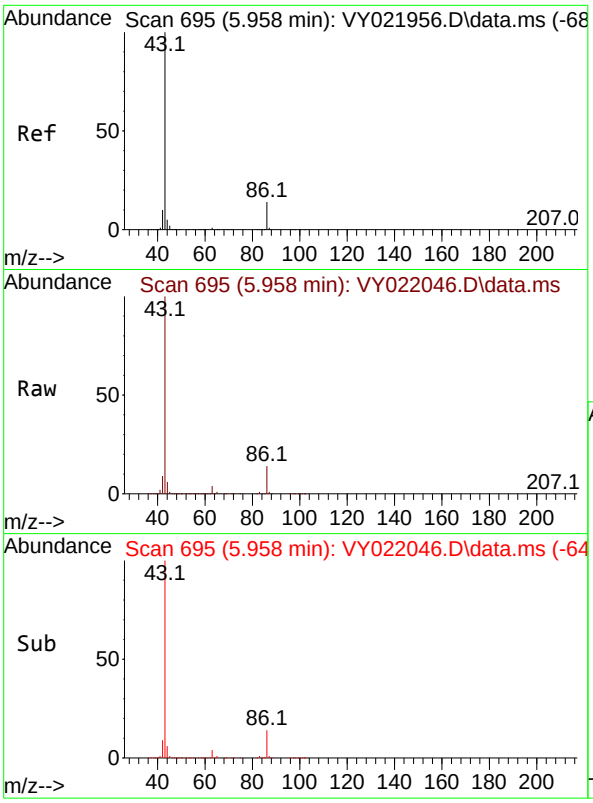


#22
Diisopropyl ether
Concen: 44.895 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 45 Resp: 382029

Ion	Ratio	Lower	Upper
45	100		
43	54.1	43.6	65.4
87	33.7	28.2	42.4
59	12.7	10.0	15.0





#23
Vinyl Acetate
Concen: 226.736 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 103980

Ion	Ratio	Lower	Upper
43	100		
86	14.2	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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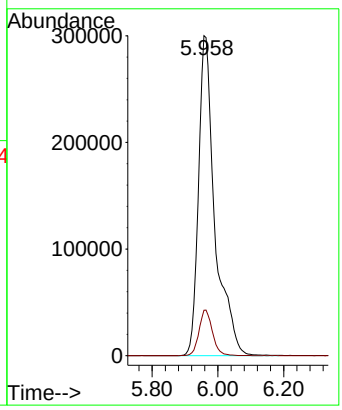
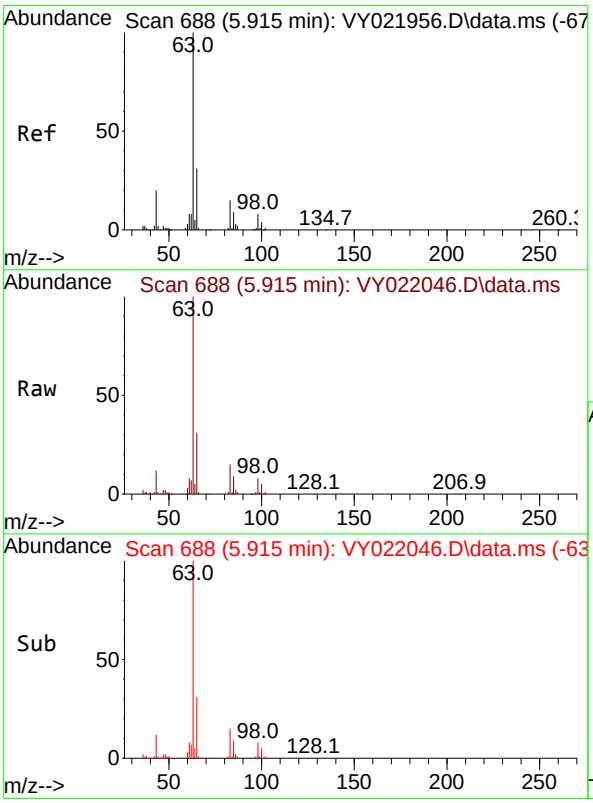
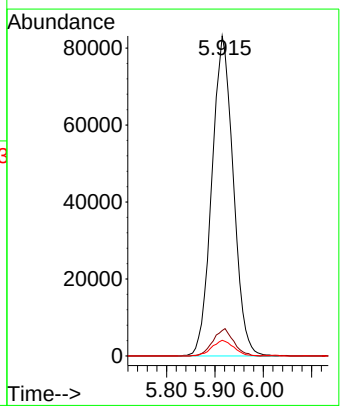


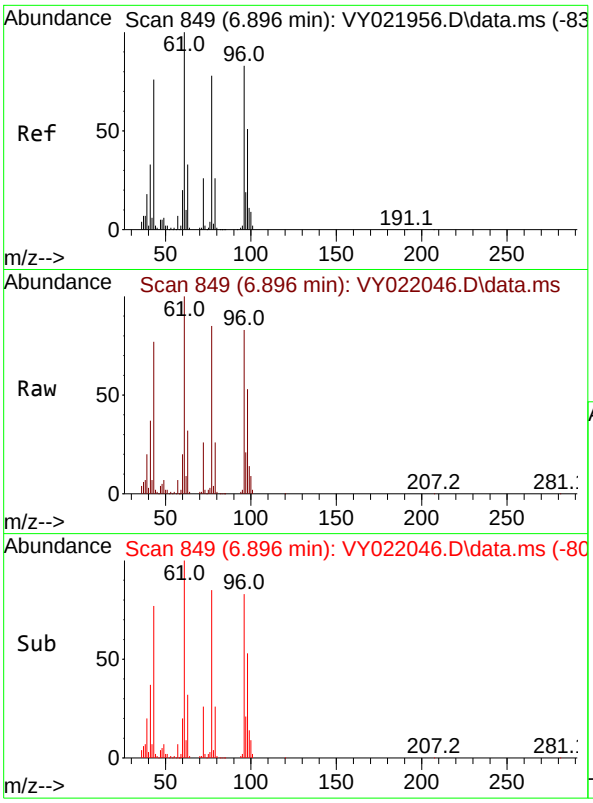


#24
1,1-Dichloroethane
Concen: 43.448 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 63 Resp: 256272

Ion	Ratio	Lower	Upper
63	100		
98	8.0	4.0	11.9
100	4.9	2.0	6.0





#25
2-Butanone
Concen: 232.499 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 16170

Ion	Ratio	Lower	Upper
43	100		
72	33.4	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
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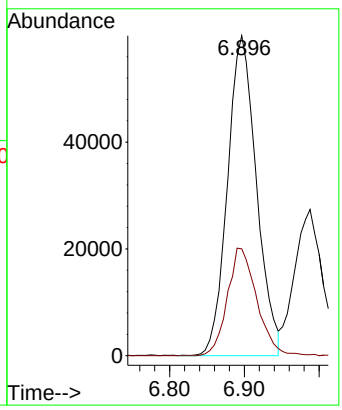
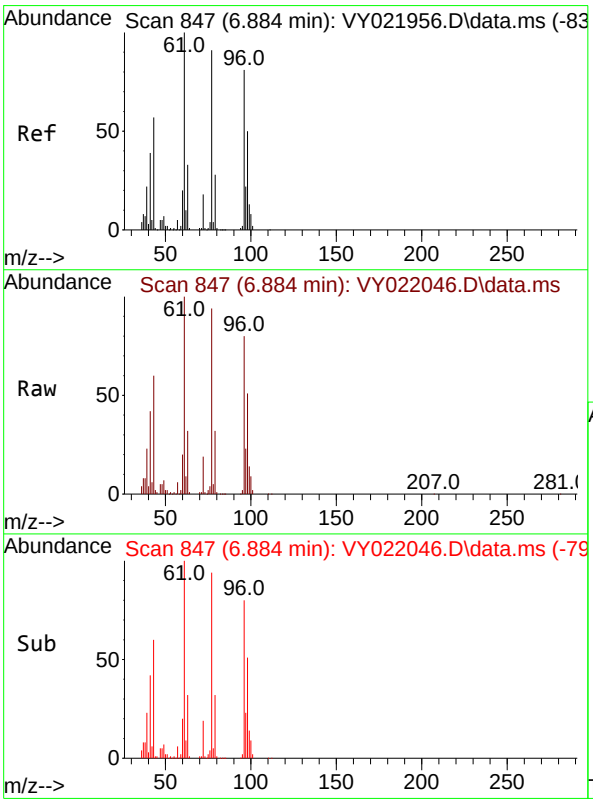
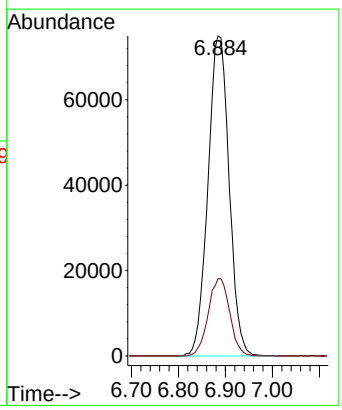


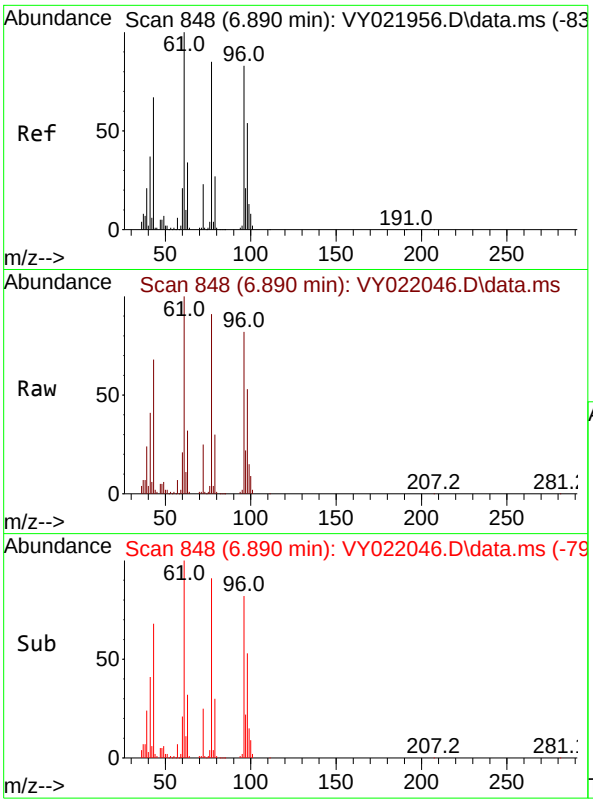


#26
2,2-Dichloropropane
Concen: 45.304 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 77 Resp: 234207

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.4	37.4

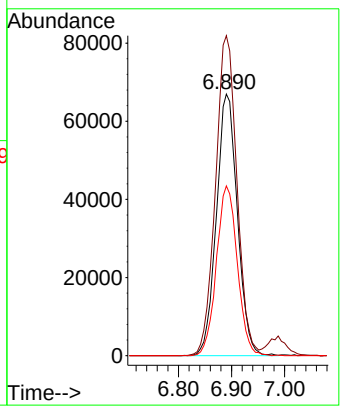




#27
cis-1,2-Dichloroethene
Concen: 44.805 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 96 Resp: 18425

Ion	Ratio	Lower	Upper
96	100		
61	124.5	0.0	251.4
98	64.5	0.0	128.4



Instrument :
MSVOA_Y
ClientSampleId :
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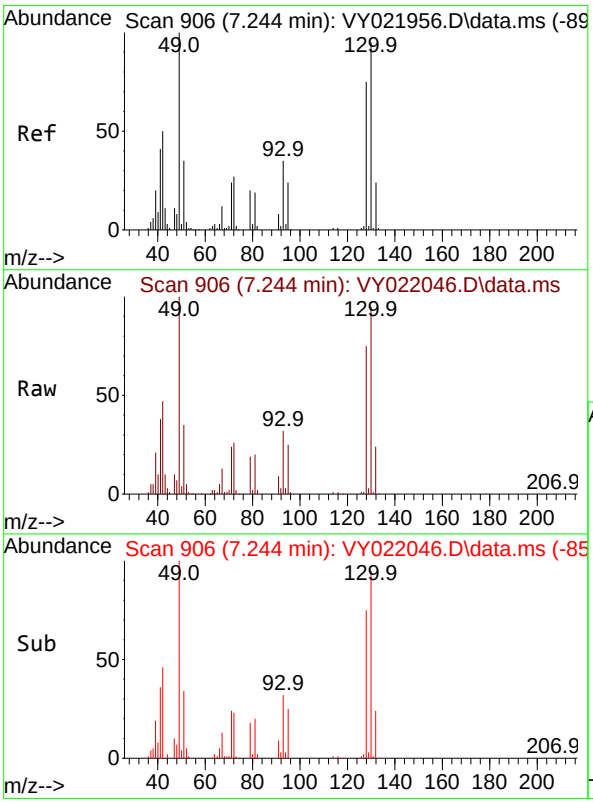
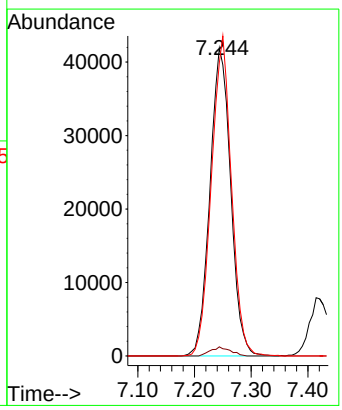
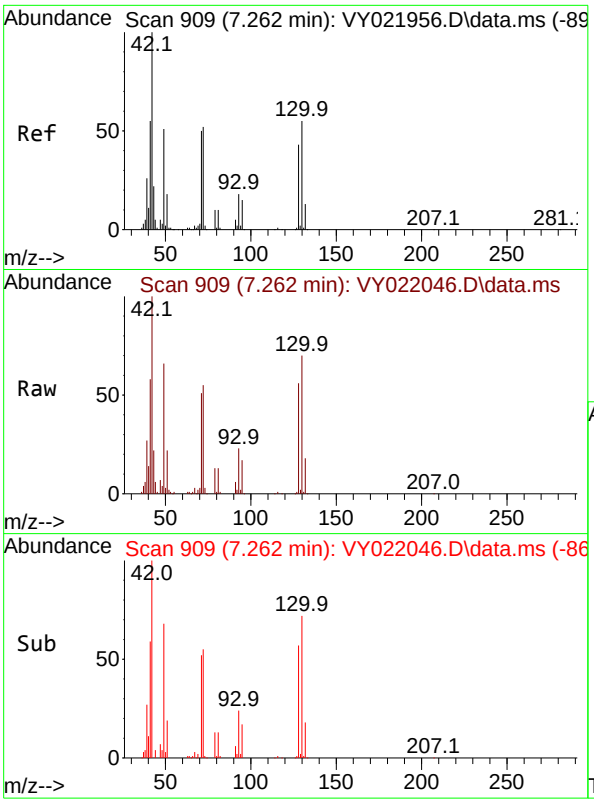


#28
Bromochloromethane
Concen: 46.456 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 49 Resp: 106431

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.0
130	100.4	78.2	117.4

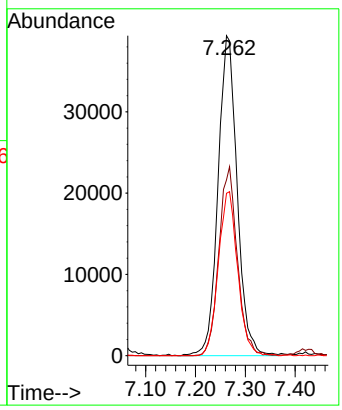




#29
Tetrahydrofuran
Concen: 232.133 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 42 Resp: 10486

Ion	Ratio	Lower	Upper
42	100		
72	57.0	42.6	63.8
71	51.8	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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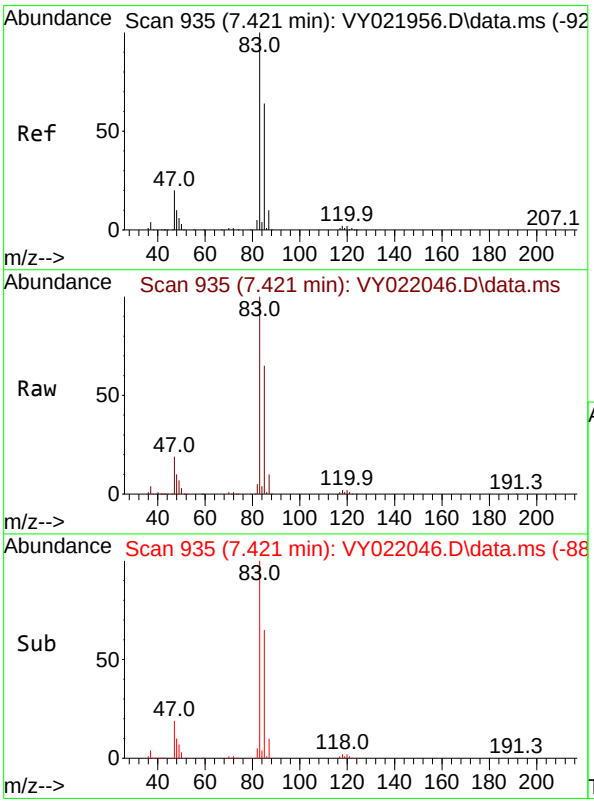
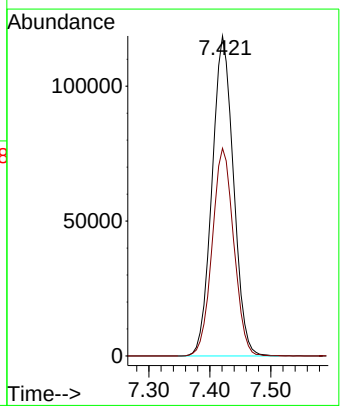
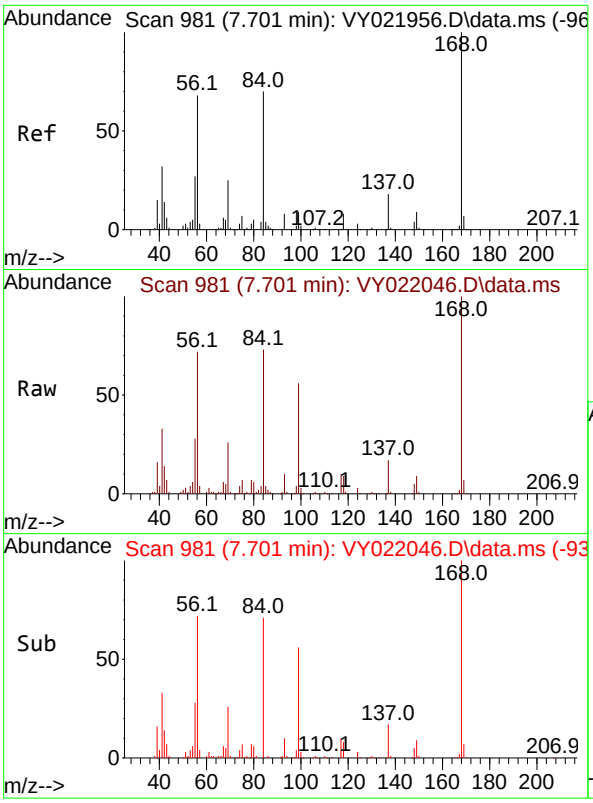


#30
Chloroform
Concen: 44.298 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 83 Resp: 289823

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.3	76.9

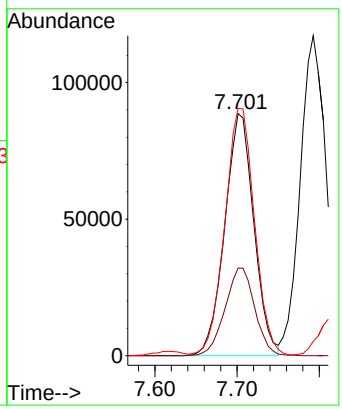




#31
Cyclohexane
Concen: 43.306 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 56 Resp: 21843

Ion	Ratio	Lower	Upper
56	100		
69	36.2	29.4	44.2
84	100.6	82.2	123.4



Instrument :
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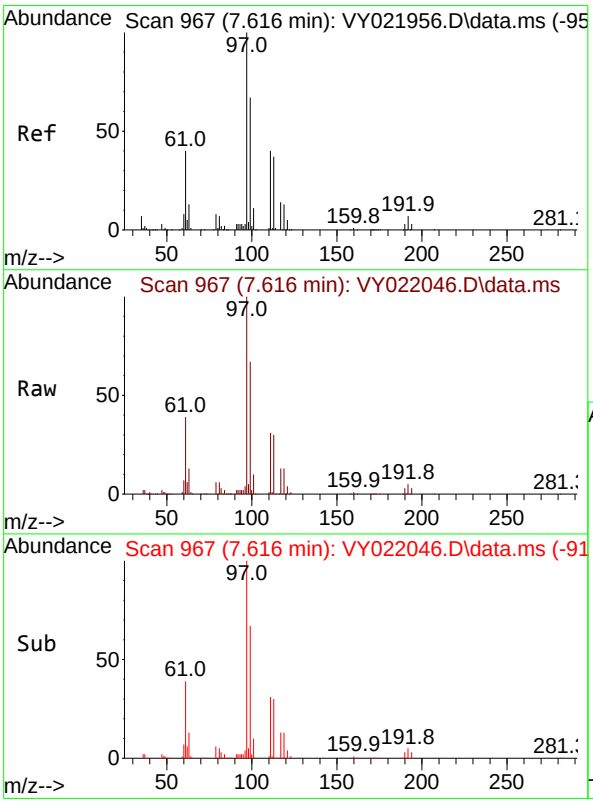
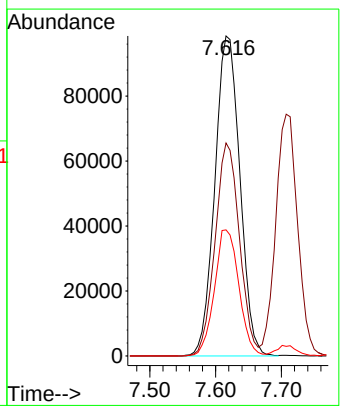
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

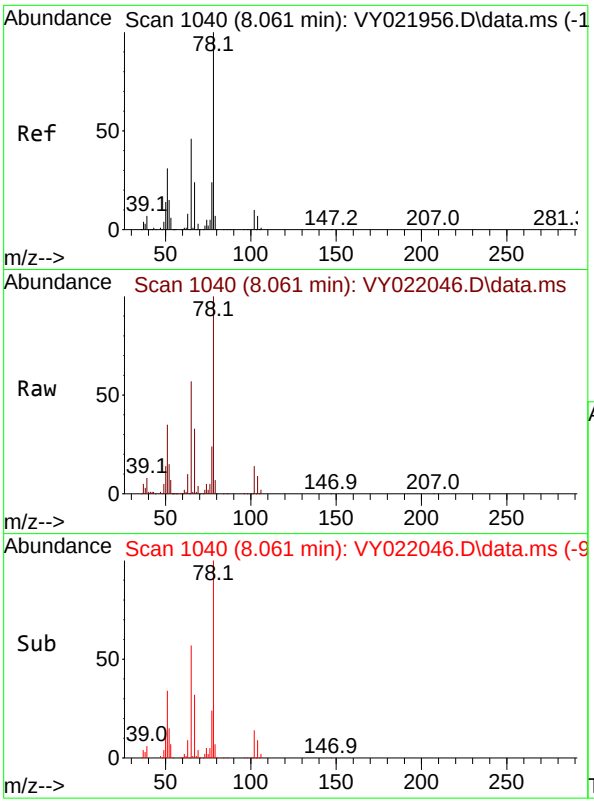


#32
1,1,1-Trichloroethane
Concen: 44.057 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 97 Resp: 260780

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.4	77.2
61	38.6	31.4	47.2

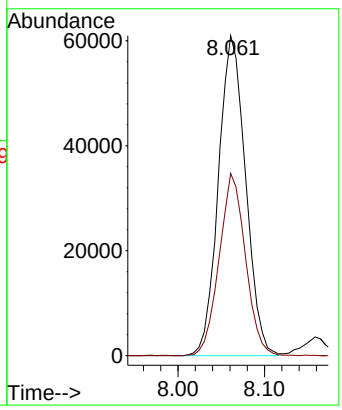




#33
1,2-Dichloroethane-d4
Concen: 43.532 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 65 Resp: 13282

Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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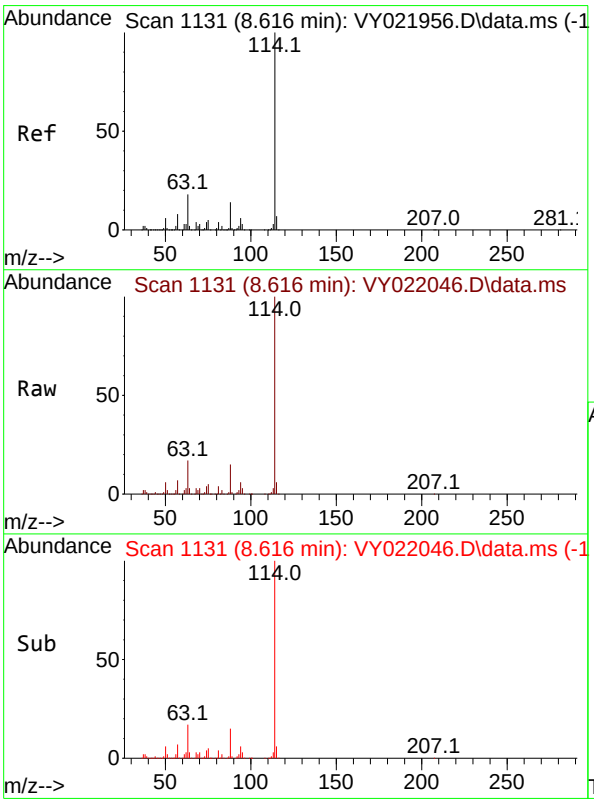
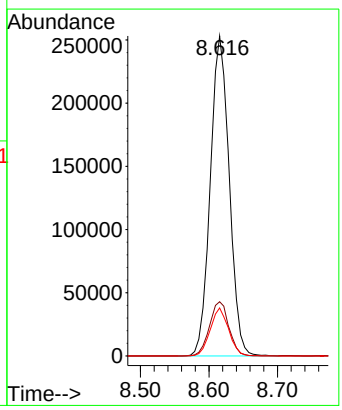
Supervised By :Mahesh Dadoda 04/30/2025

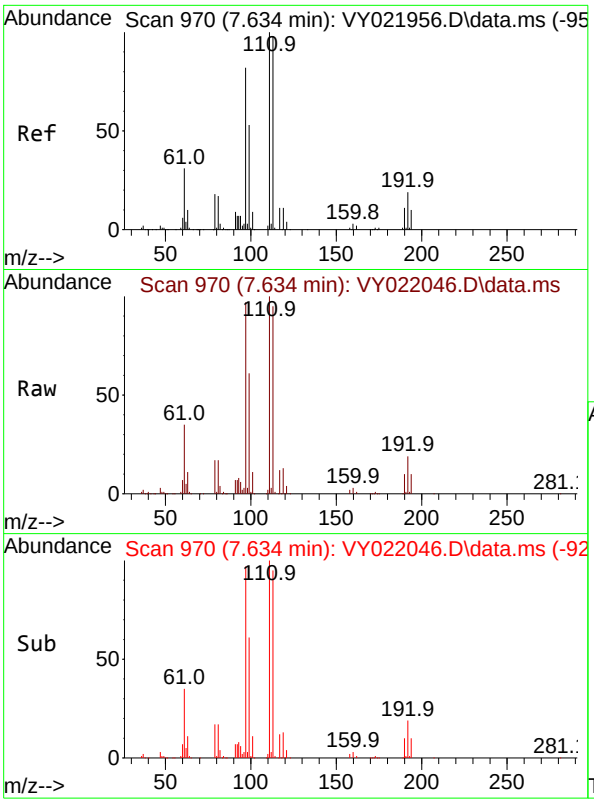


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:114 Resp: 485397

Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	35.4
88	15.0	0.0	28.2

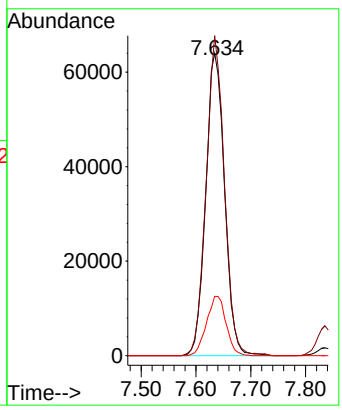




#35
Dibromofluoromethane
Concen: 47.486 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:113 Resp: 15227

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.8	122.8
192	20.4	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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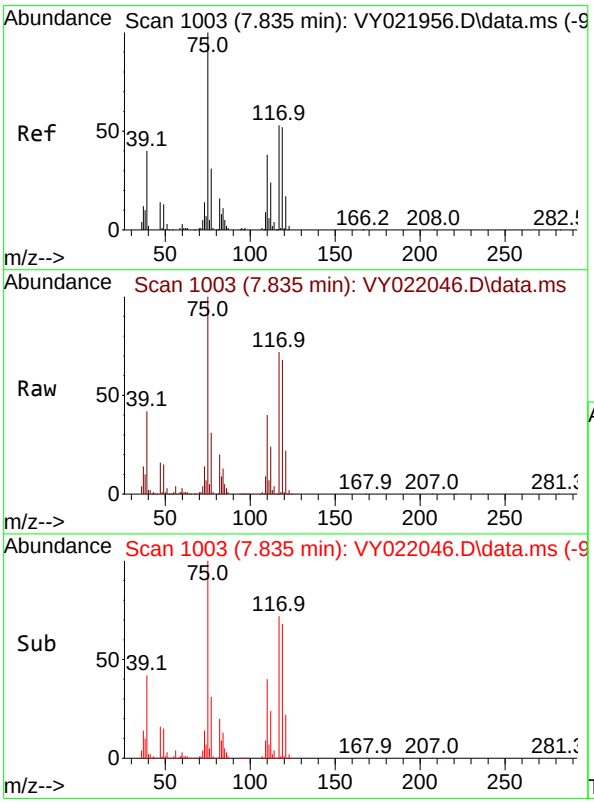
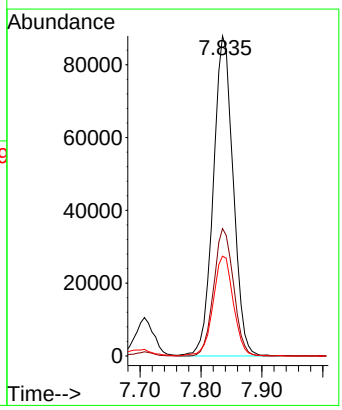
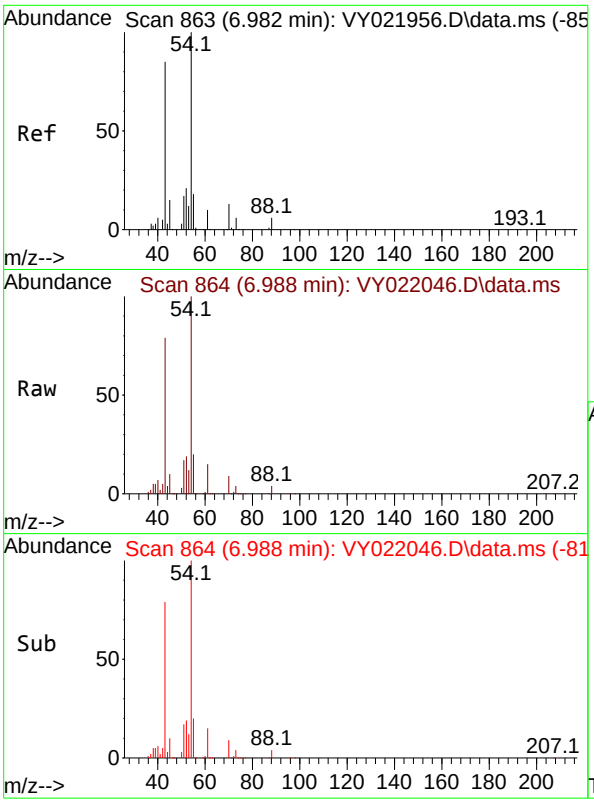


#36
1,1-Dichloropropene
Concen: 46.442 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 75 Resp: 200053

Ion	Ratio	Lower	Upper
75	100		
110	39.5	19.1	57.3
77	31.7	25.5	38.3





#37
Ethyl Acetate
Concen: 47.597 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 7363

Ion	Ratio	Lower	Upper
43	100		
61	16.5	13.8	20.6
70	12.0	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
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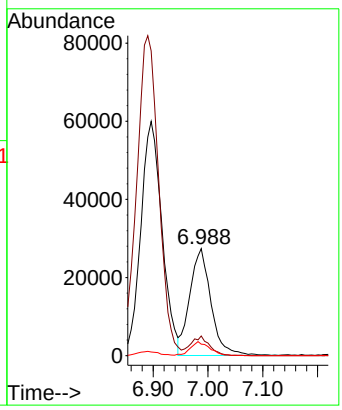
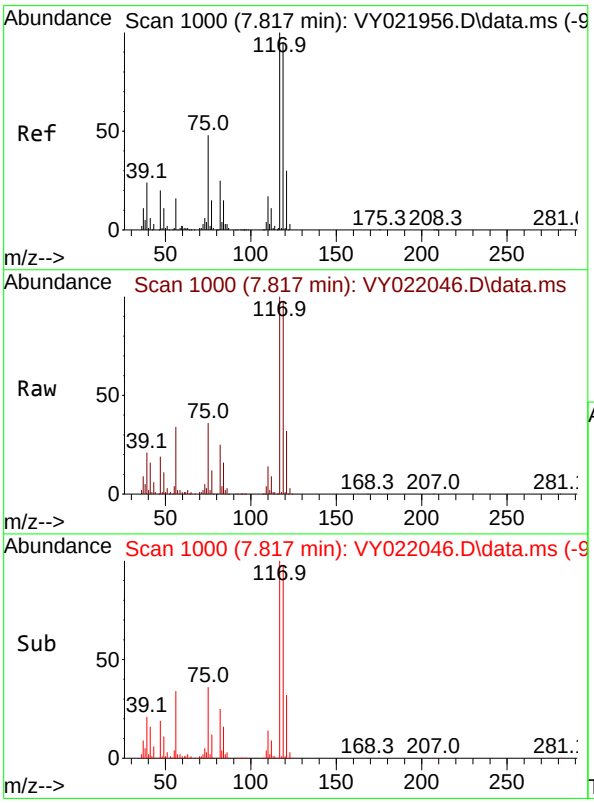
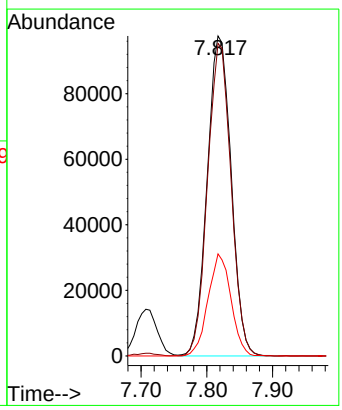


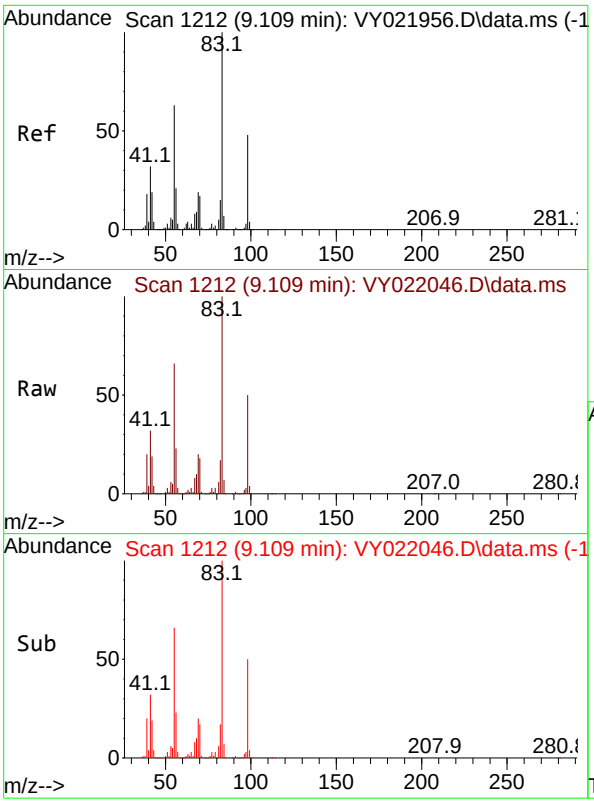


#38
Carbon Tetrachloride
Concen: 48.012 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:117 Resp: 247130

Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.2	114.4
121	31.9	24.0	36.0

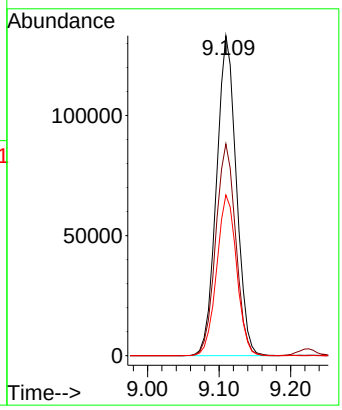




#39
Methylcyclohexane
Concen: 47.325 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 83 Resp: 25654

Ion	Ratio	Lower	Upper
83	100		
55	66.2	50.6	75.8
98	50.2	38.6	58.0



Instrument :
MSVOA_Y
ClientSampleId :
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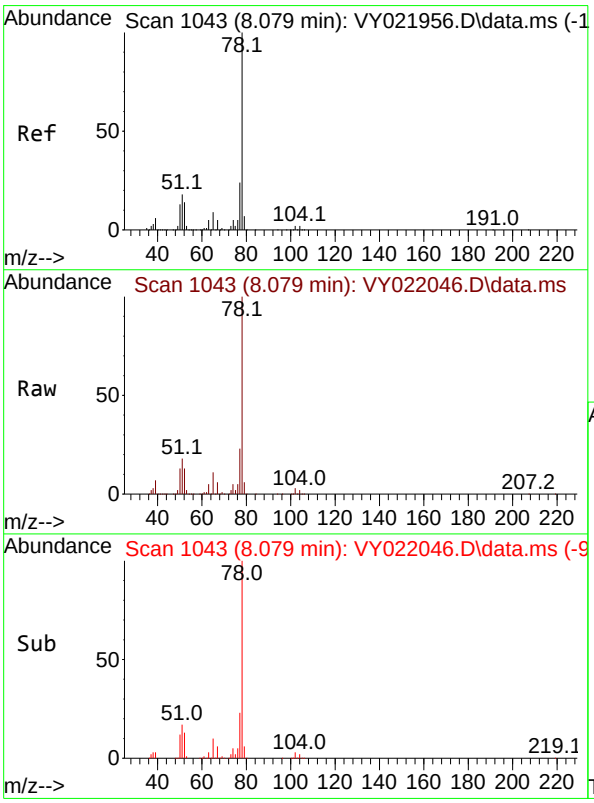
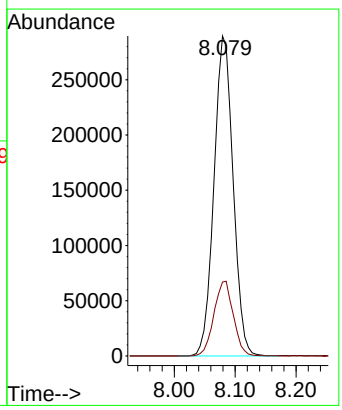
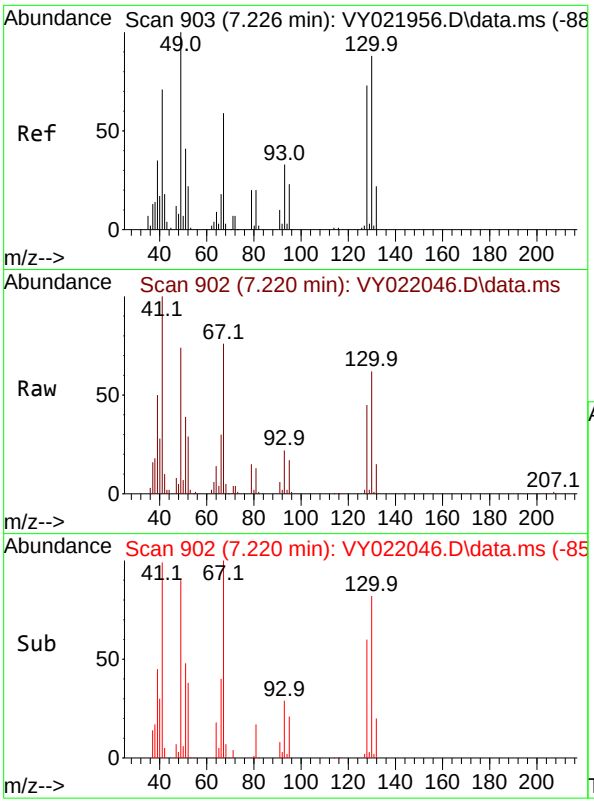


#40
Benzene
Concen: 46.906 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 78 Resp: 631609

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.3	28.9

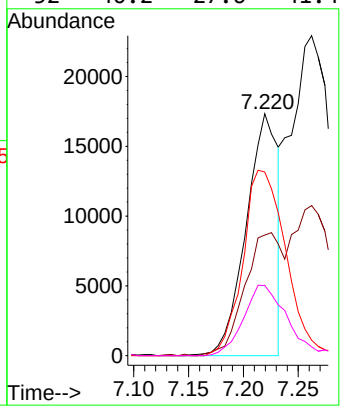




#41
Methacrylonitrile
Concen: 41.395 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 41 Resp: 3500

Ion	Ratio	Lower	Upper
41	100		
39	61.4	36.6	55.0
67	103.9	72.2	108.4
52	40.2	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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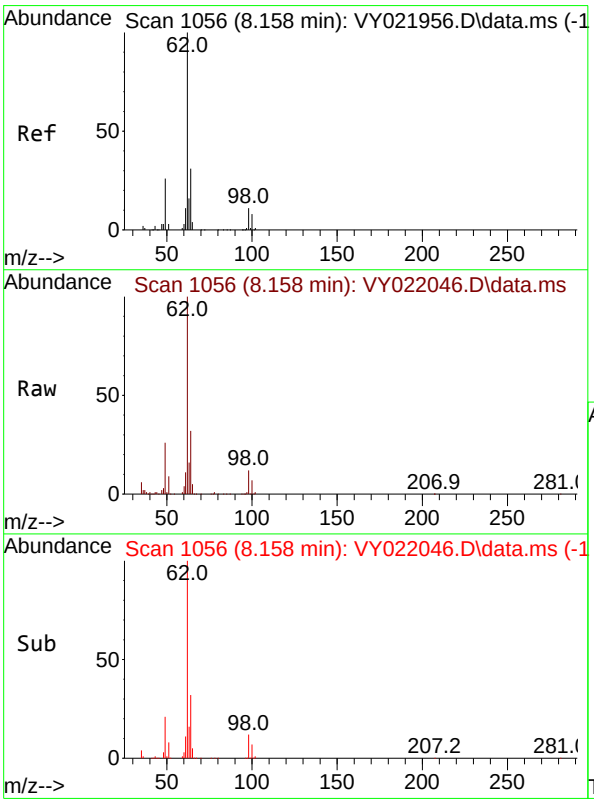
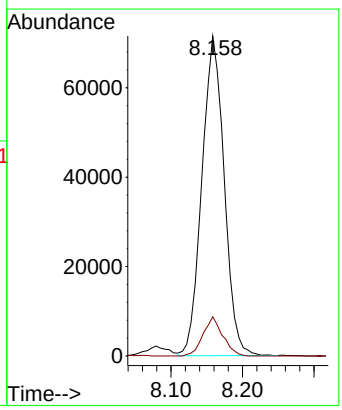
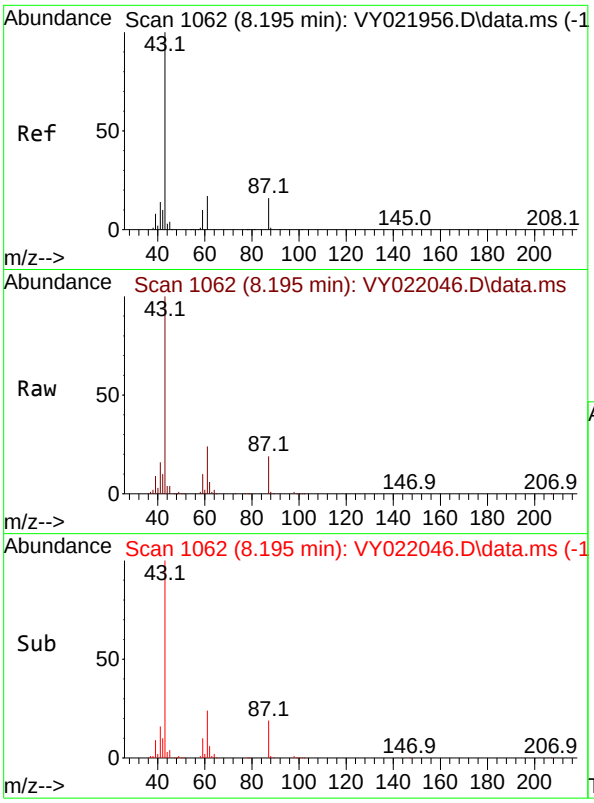


#42
1,2-Dichloroethane
Concen: 46.477 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 62 Resp: 154947

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	22.0





#43
Isopropyl Acetate
Concen: 46.389 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 13782

Ion	Ratio	Lower	Upper
43	100		
61	36.2	18.9	28.3#
87	17.6	13.7	20.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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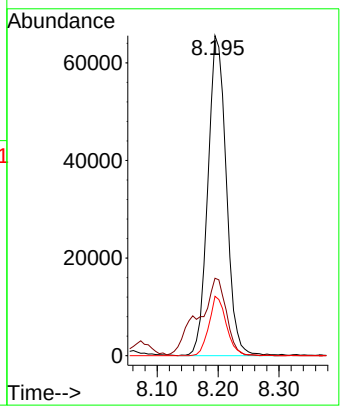
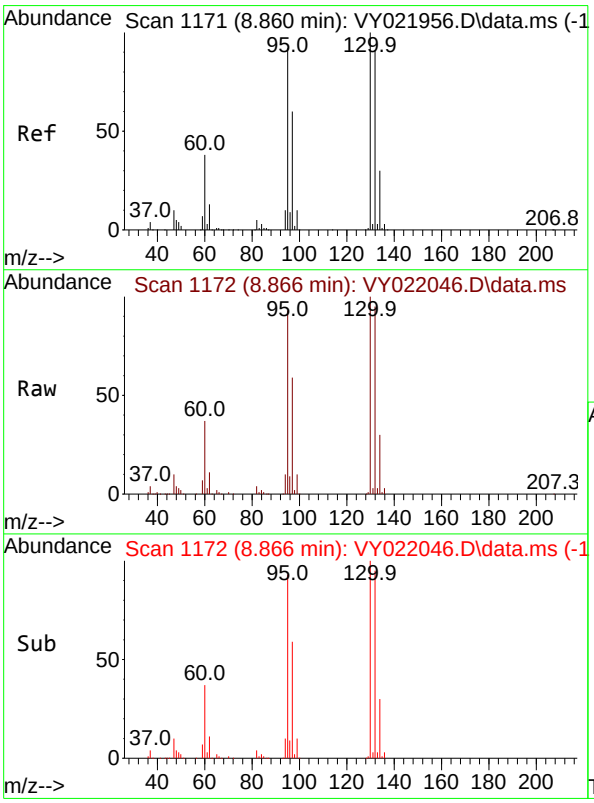
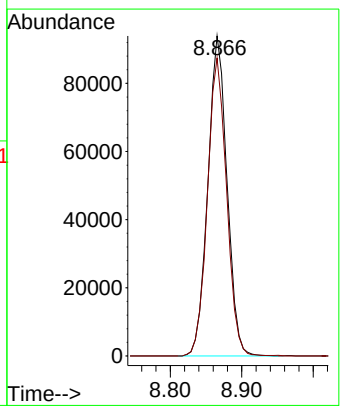


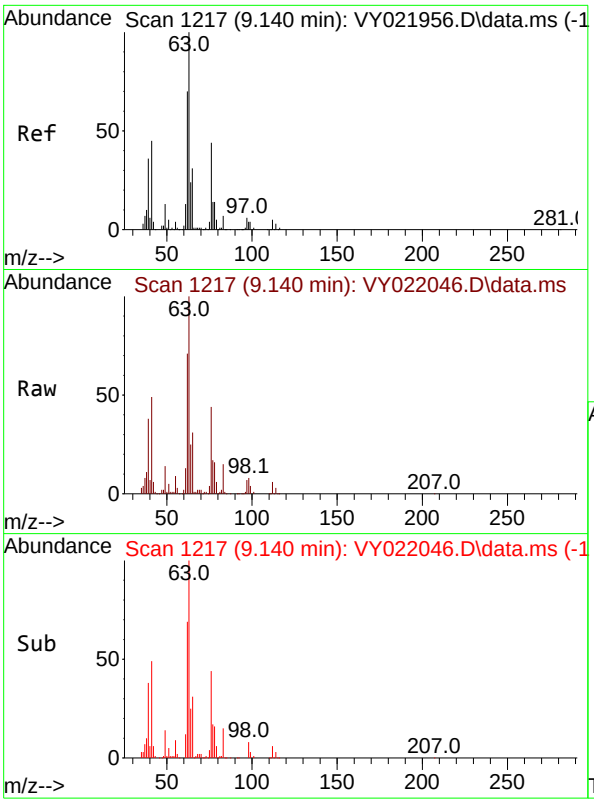


#44
Trichloroethene
Concen: 46.887 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:130 Resp: 174874

Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	183.2





#45
1,2-Dichloropropane
Concen: 46.764 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 63 Resp: 13925

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.2	37.8

Instrument :
MSVOA_Y
ClientSampleId :
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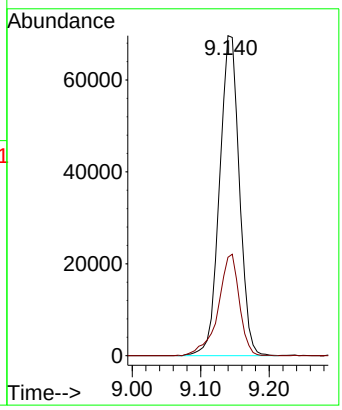
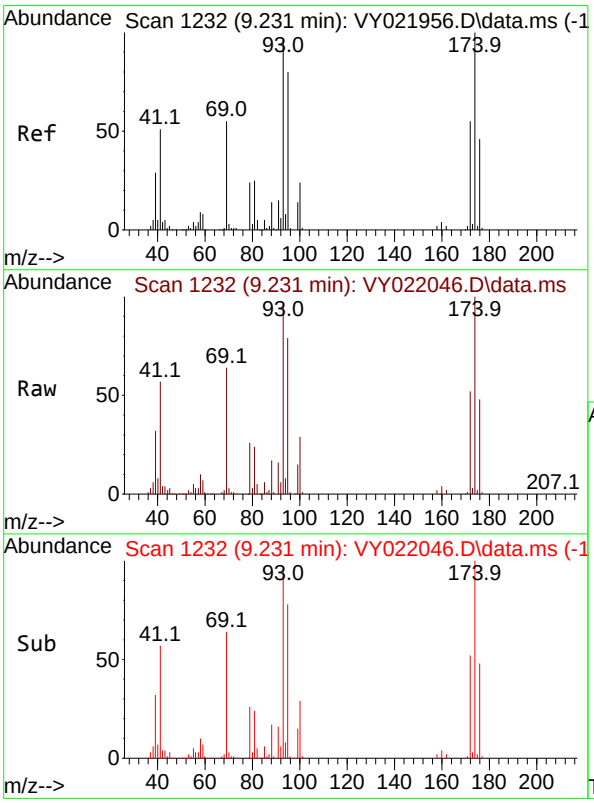
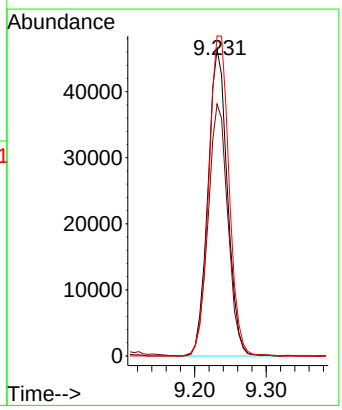


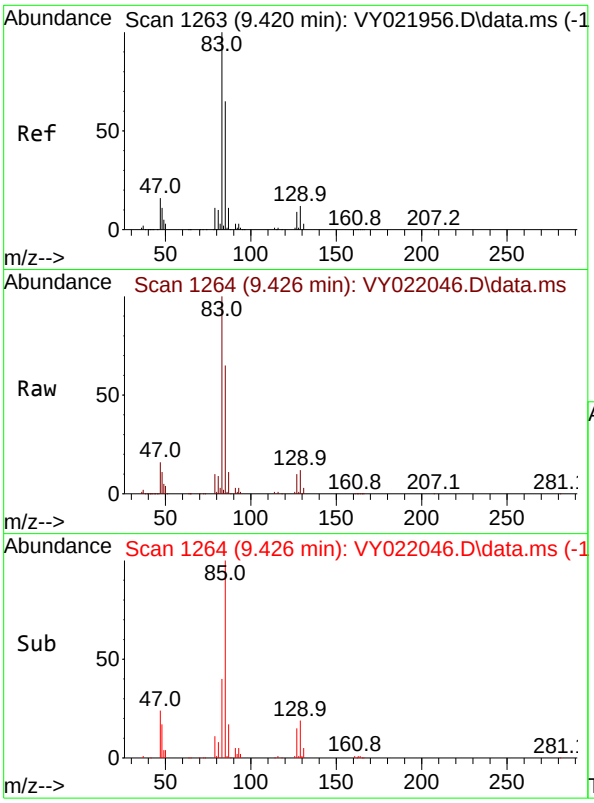


#46
Dibromomethane
Concen: 47.082 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 93 Resp: 87764

Ion	Ratio	Lower	Upper
93	100		
95	83.5	66.7	100.1
174	108.2	84.6	127.0

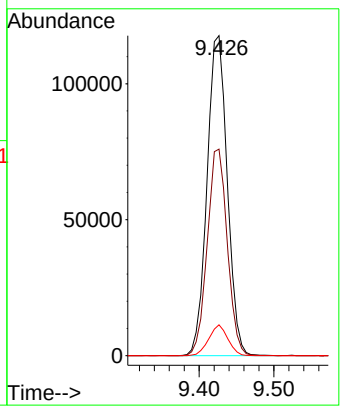




#47
Bromodichloromethane
Concen: 47.592 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 83 Resp: 22162

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.8	77.8
127	9.7	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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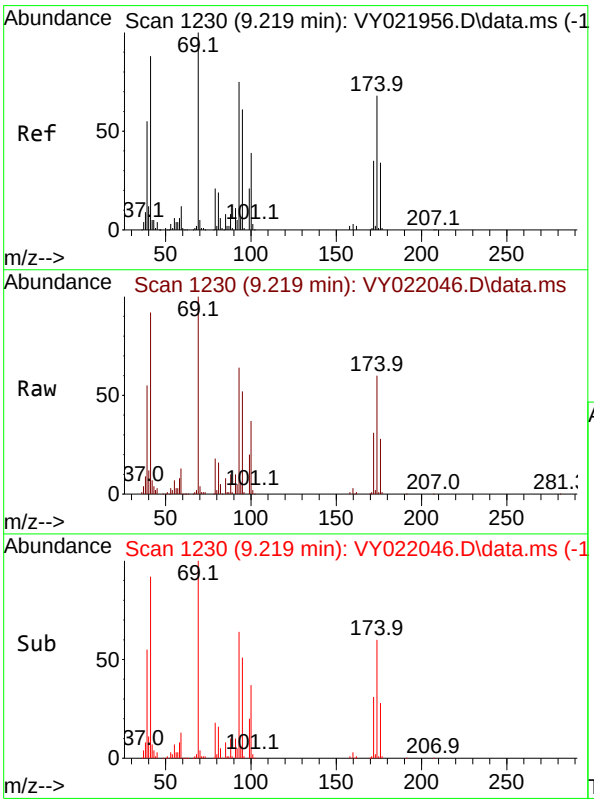
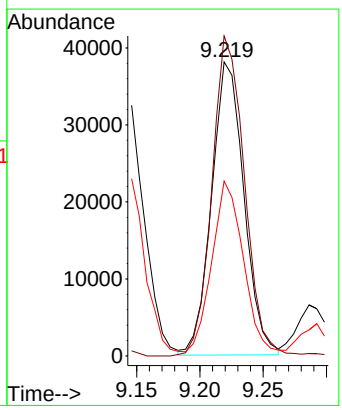
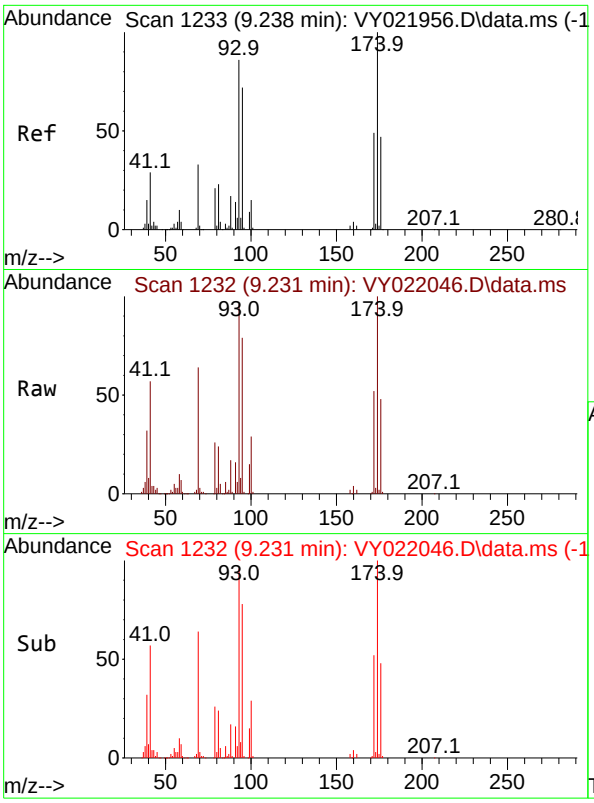


#48
Methyl methacrylate
Concen: 49.274 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 41 Resp: 67675

Ion	Ratio	Lower	Upper
41	100		
69	109.2	85.5	128.3
39	56.2	46.2	69.4





#49
1,4-Dioxane
Concen: 997.336 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 88 Resp: 1981

Ion	Ratio	Lower	Upper
88	100		
43	23.2	21.3	31.9
58	55.8	50.5	75.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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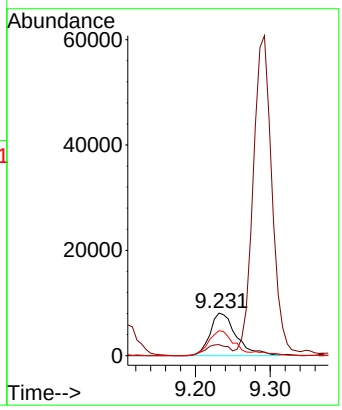
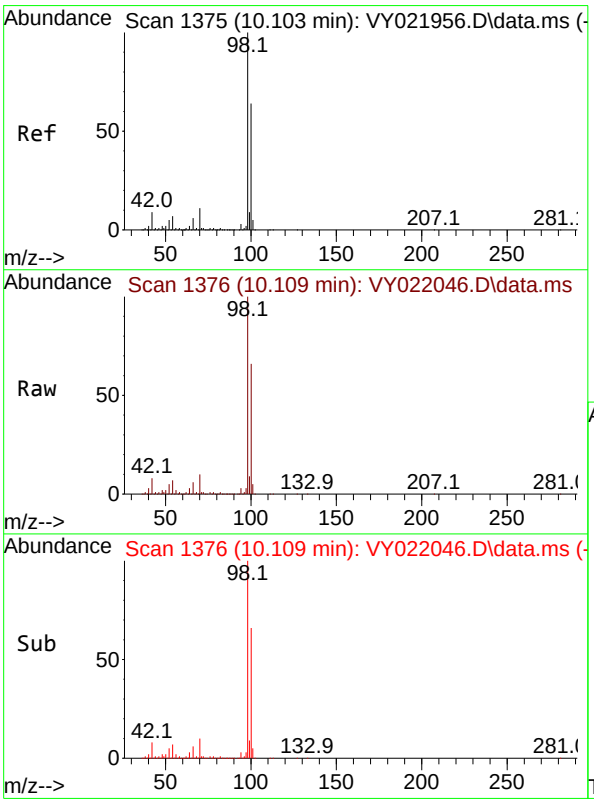
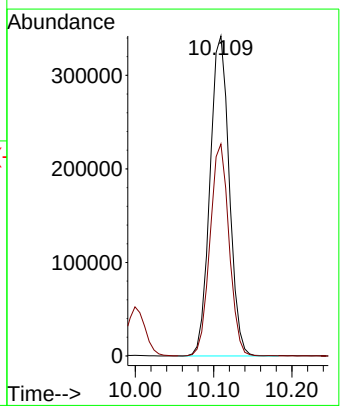


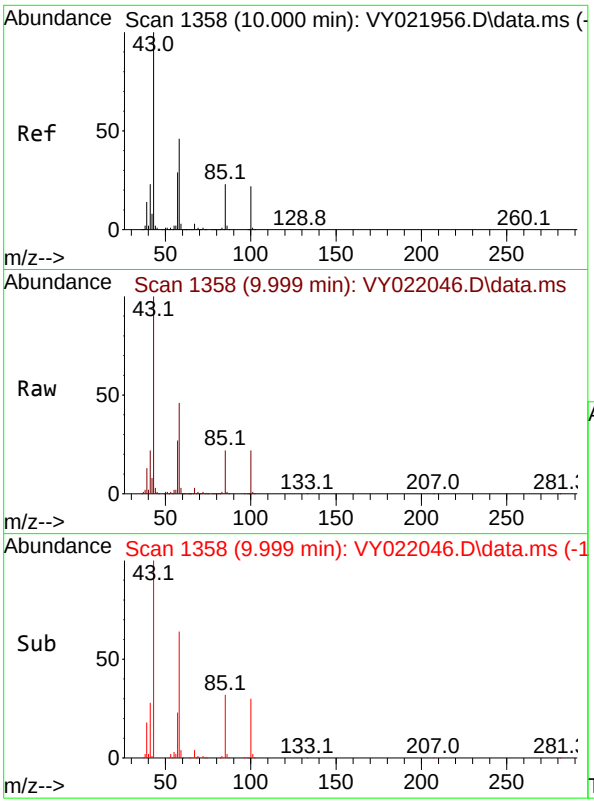


#50
Toluene-d8
Concen: 48.273 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 98 Resp: 583606

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.6	77.4

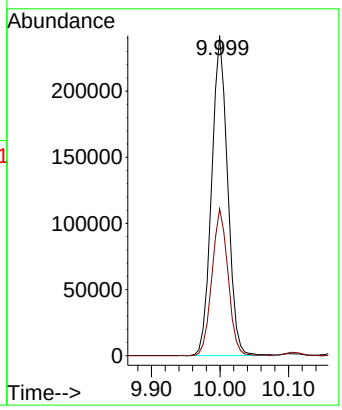




#51
4-Methyl-2-Pentanone
Concen: 250.912 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 39078

Ion	Ratio	Lower	Upper
43	100		
58	46.1	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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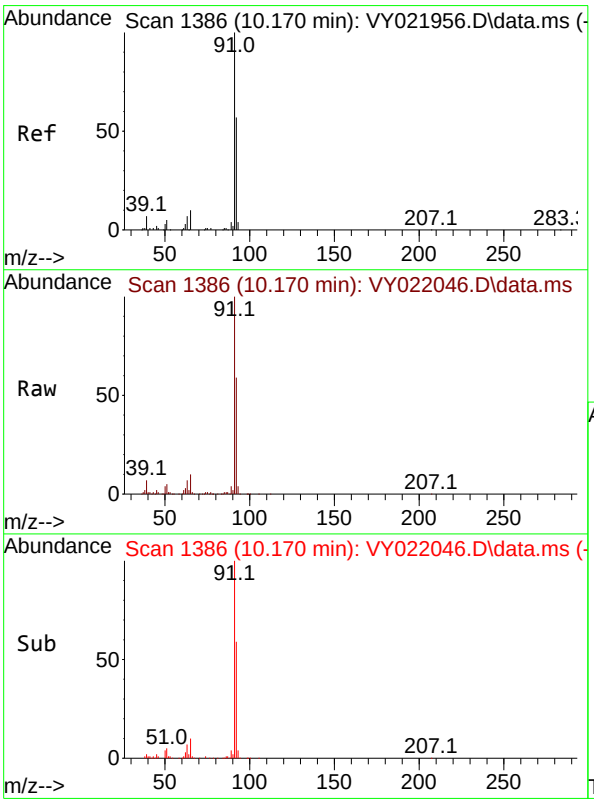
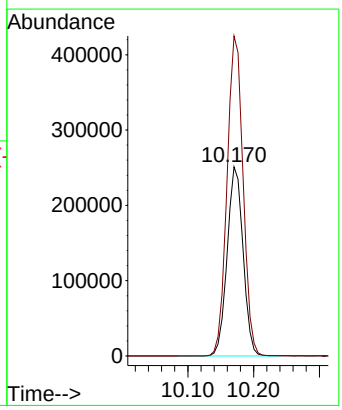
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

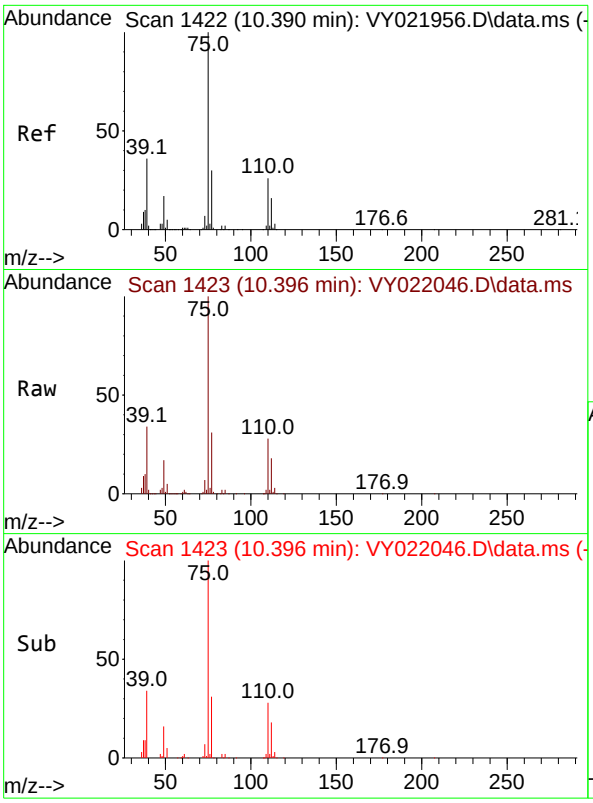


#52
Toluene
Concen: 48.468 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 92 Resp: 422459

Ion	Ratio	Lower	Upper
92	100		
91	170.6	138.6	207.8

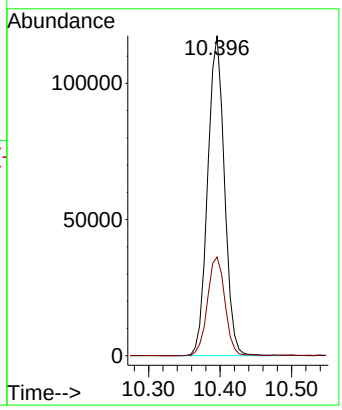




#53
t-1,3-Dichloropropene
Concen: 47.779 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 75 Resp: 19084

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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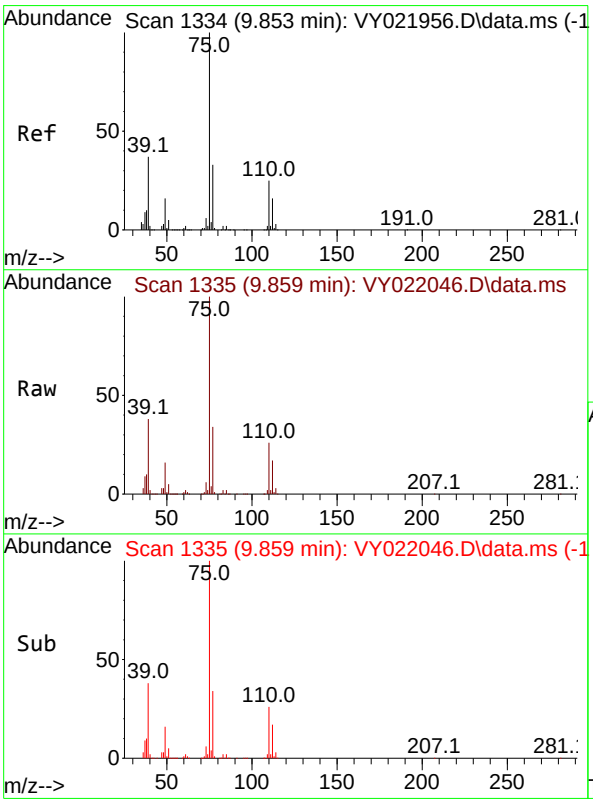
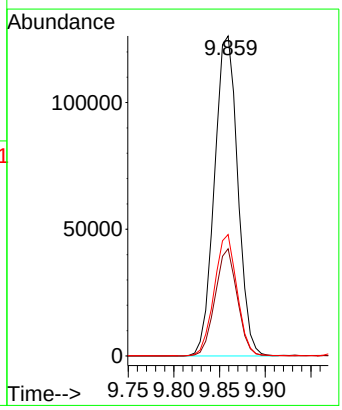
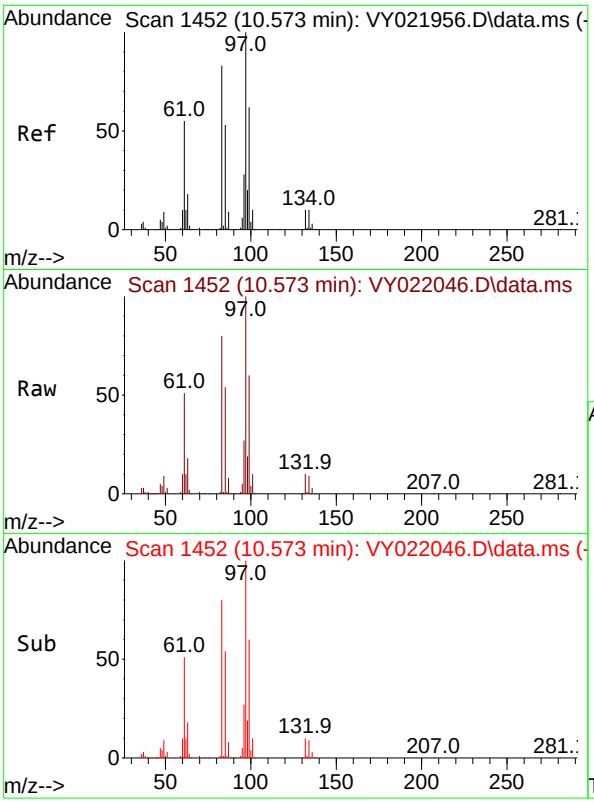


#54
cis-1,3-Dichloropropene
Concen: 47.184 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 75 Resp: 224035

Ion	Ratio	Lower	Upper
75	100		
77	33.5	26.6	40.0
39	37.9	29.6	44.4

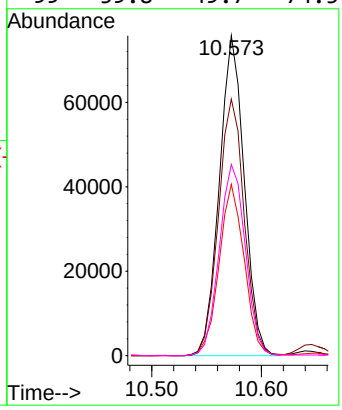




#55
1,1,2-Trichloroethane
Concen: 48.179 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 97 Resp: 11996

Ion	Ratio	Lower	Upper
97	100		
83	80.2	66.7	100.1
85	53.6	42.6	64.0
99	59.8	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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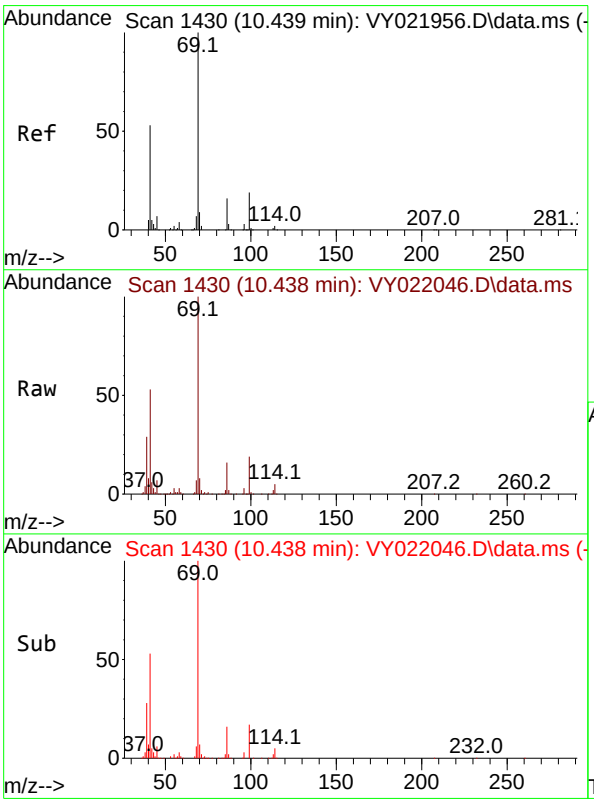
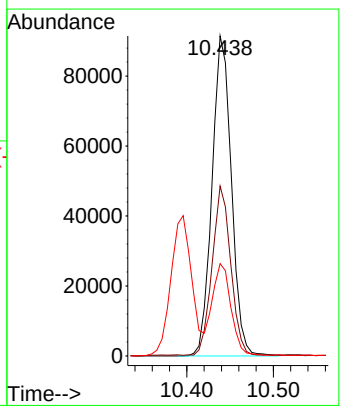
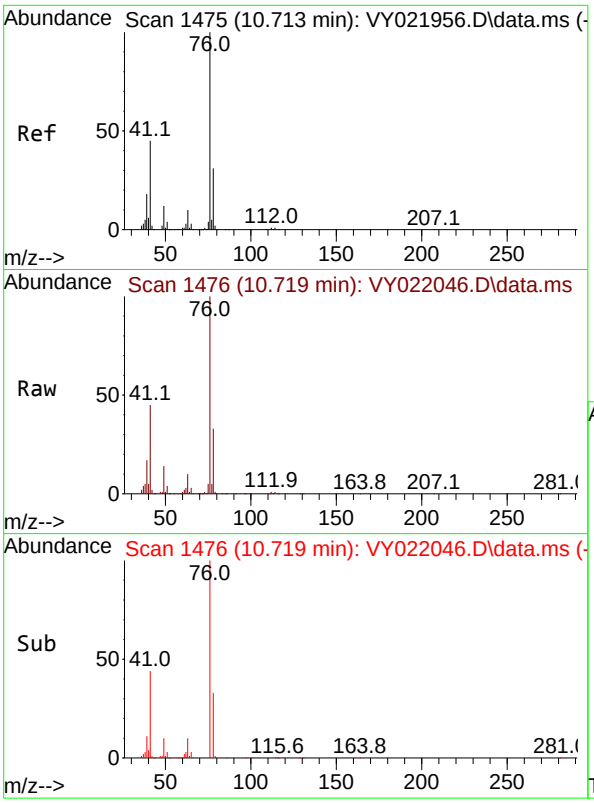


#56
Ethyl methacrylate
Concen: 49.904 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 69 Resp: 142098

Ion	Ratio	Lower	Upper
69	100		
41	50.9	40.7	61.1
39	27.5	23.3	34.9





#57
1,3-Dichloropropane
Concen: 48.021 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 76 Resp: 19168

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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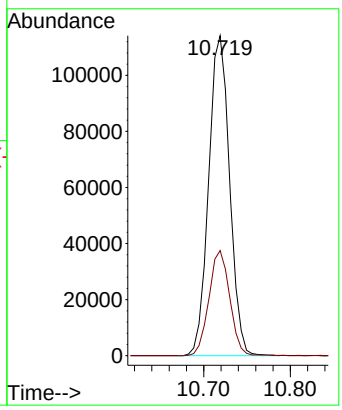
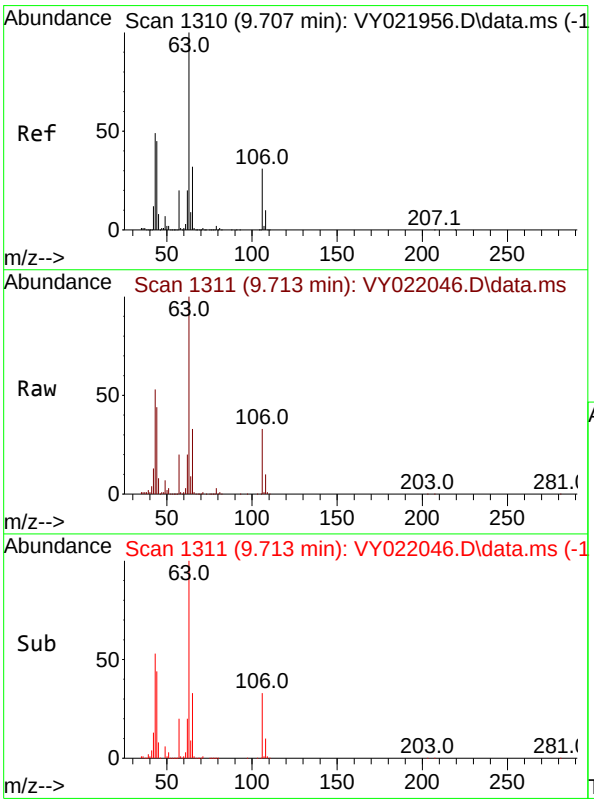
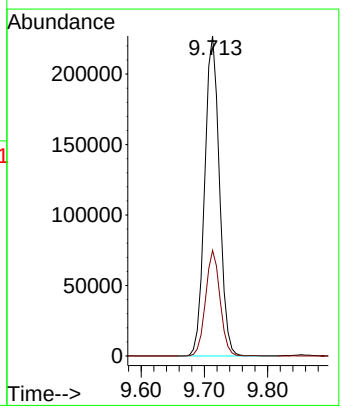


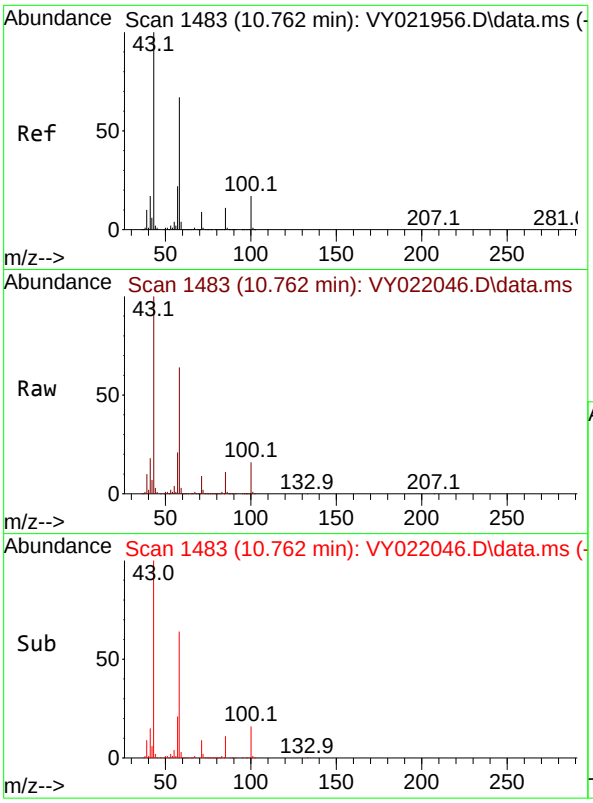


#58
2-Chloroethyl Vinyl ether
Concen: 264.171 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 63 Resp: 367778

Ion	Ratio	Lower	Upper
63	100		
106	32.4	25.3	37.9





#59
2-Hexanone
Concen: 257.500 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 26452

Ion	Ratio	Lower	Upper
43	100		
58	64.3	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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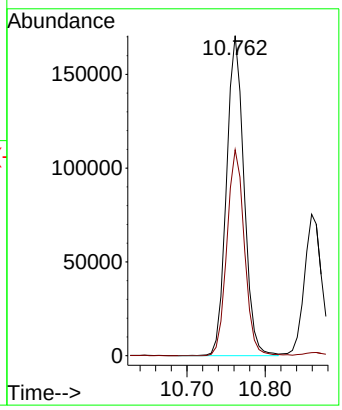
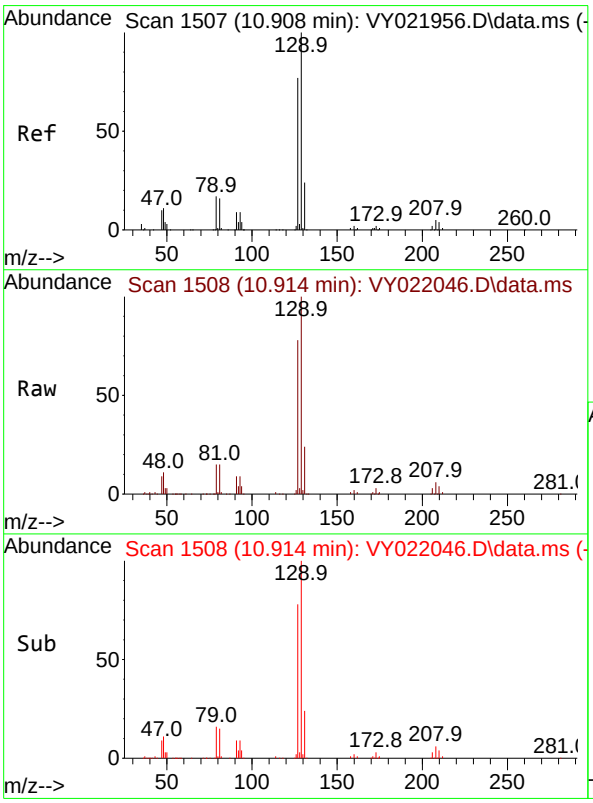
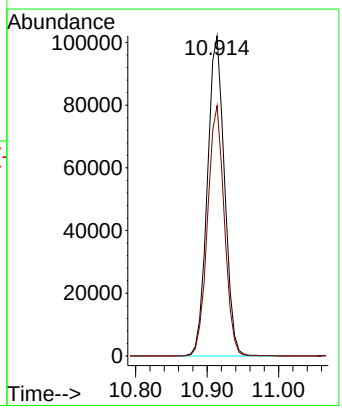


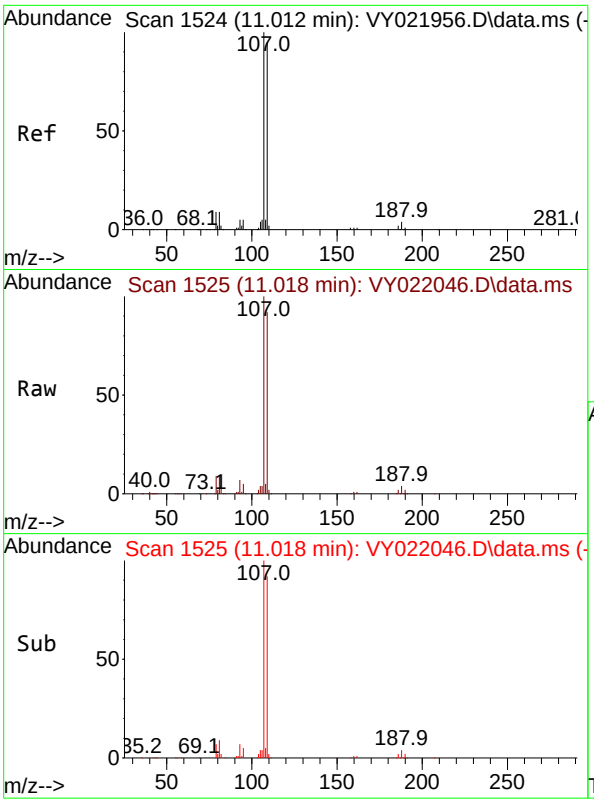


#60
Dibromochloromethane
Concen: 49.071 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:129 Resp: 169164

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.5	115.3

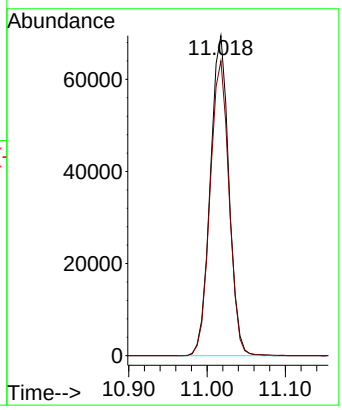




#61
1,2-Dibromoethane
Concen: 48.774 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:107 Resp: 11465

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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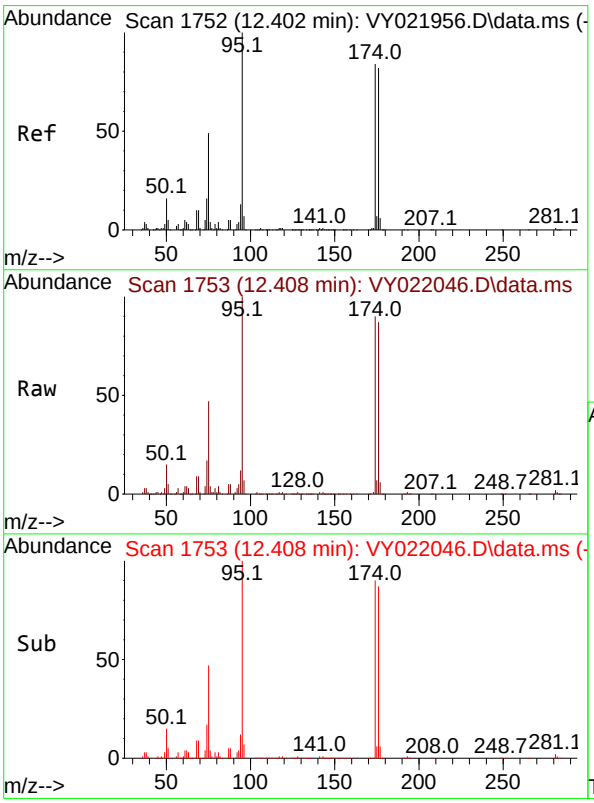
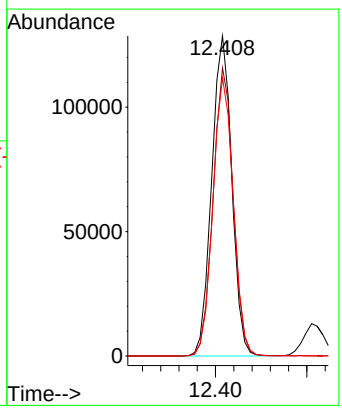
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

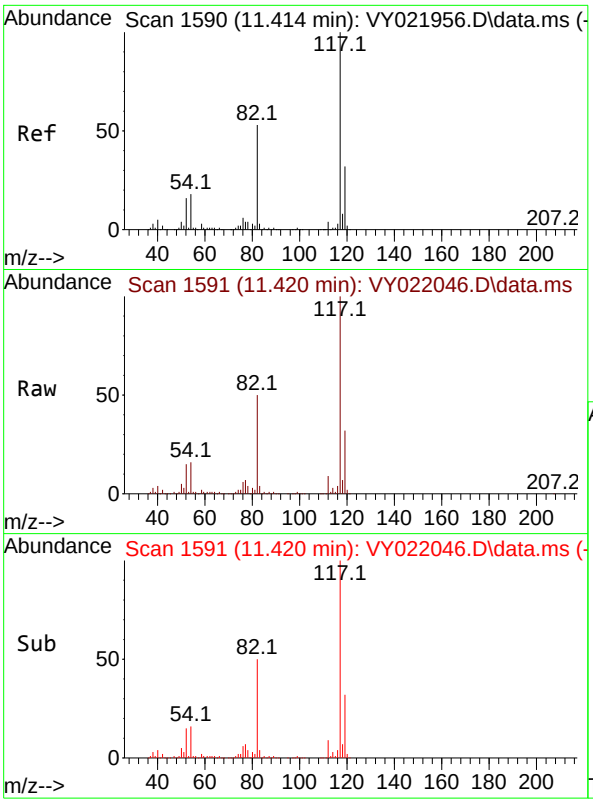


#62
4-Bromofluorobenzene
Concen: 48.133 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 95 Resp: 195893

Ion	Ratio	Lower	Upper
95	100		
174	90.1	0.0	179.0
176	88.5	0.0	171.8

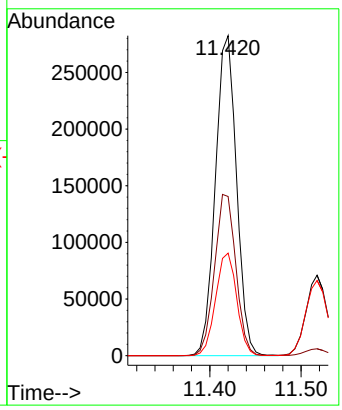




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:117 Resp: 45354

Ion	Ratio	Lower	Upper
117	100		
82	49.8	42.1	63.1
119	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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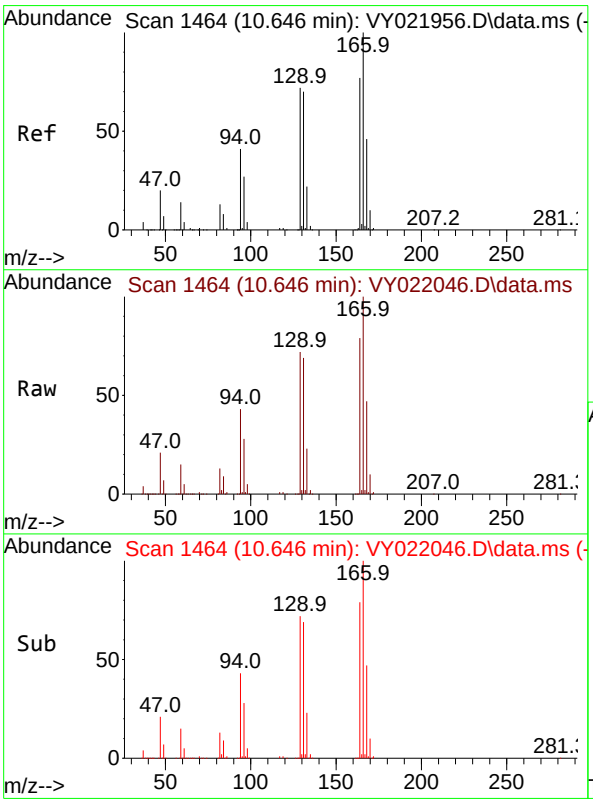
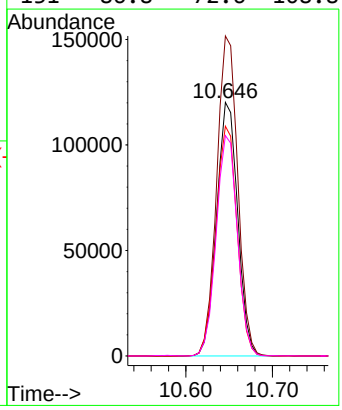
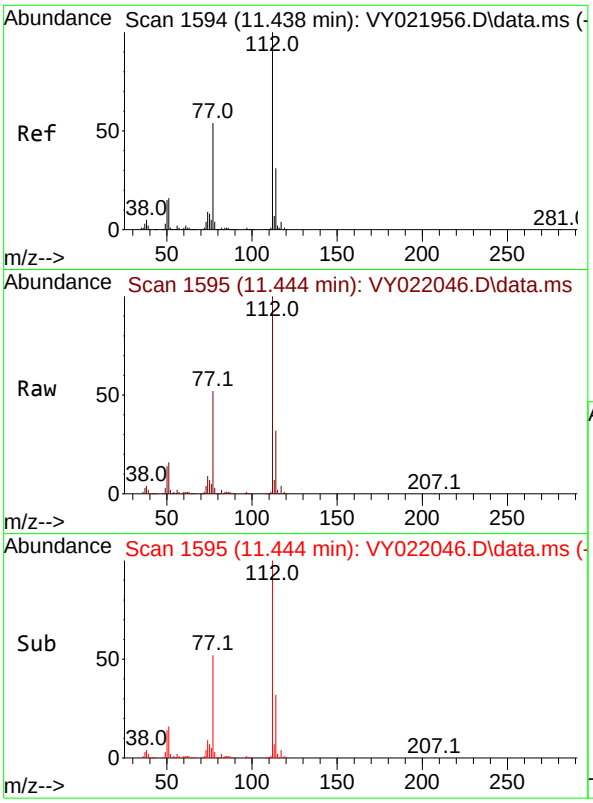


#64
Tetrachloroethene
Concen: 47.647 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:164 Resp: 203863

Ion	Ratio	Lower	Upper
164	100		
166	126.2	103.6	155.4
129	90.6	74.2	111.4
131	86.8	72.6	108.8

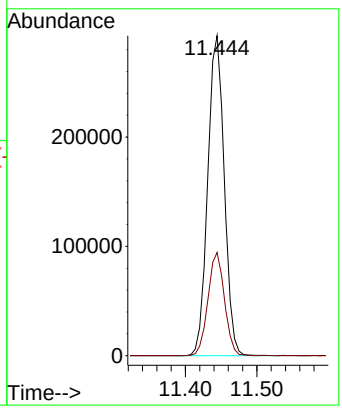




#65
Chlorobenzene
Concen: 46.234 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:112 Resp: 46893

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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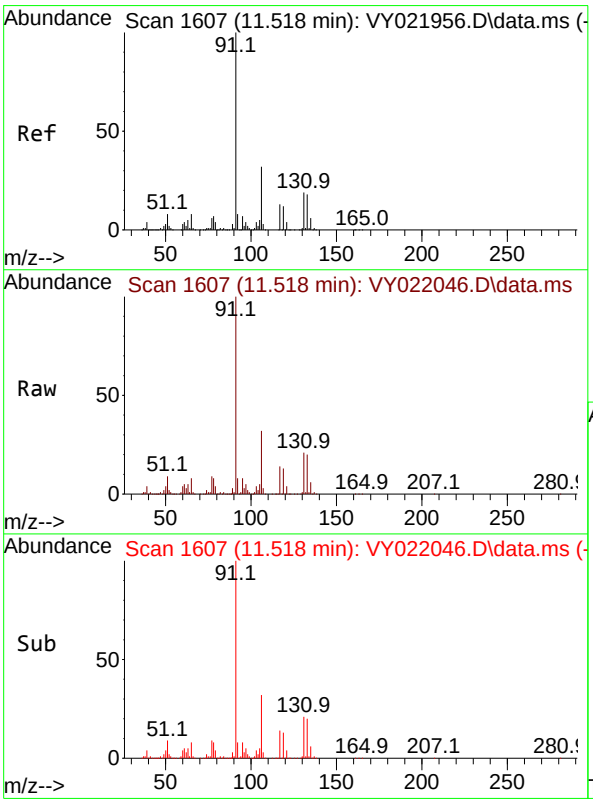
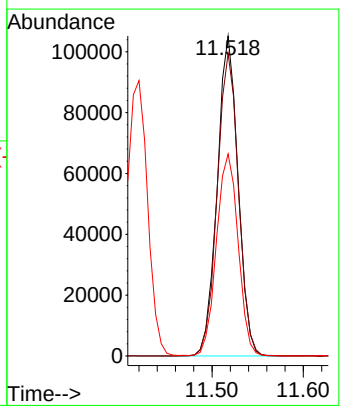
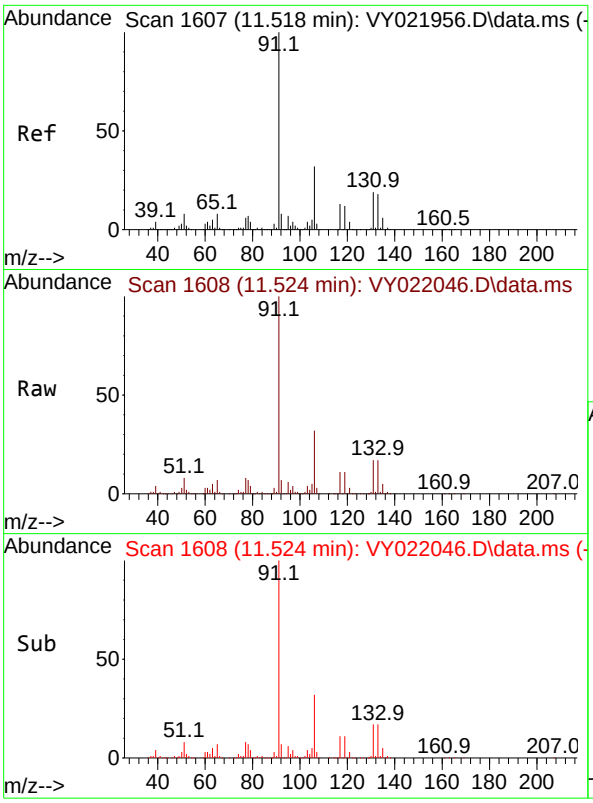


#66
1,1,1,2-Tetrachloroethane
Concen: 46.647 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:131 Resp: 166562

Ion	Ratio	Lower	Upper
131	100		
133	96.4	47.8	143.3
119	65.7	32.4	97.0

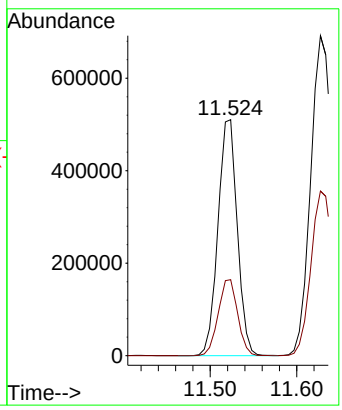




#67
Ethyl Benzene
Concen: 47.678 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 91 Resp: 79105

Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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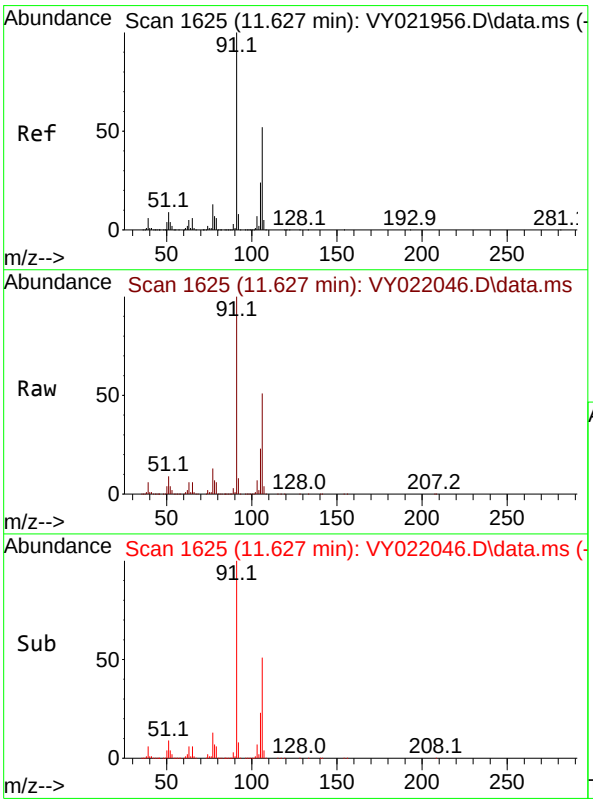
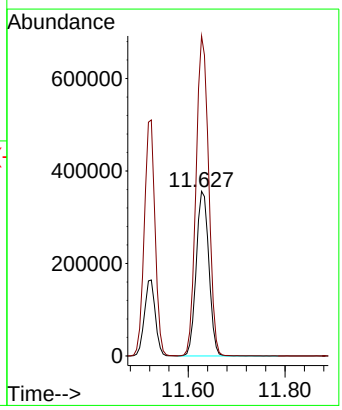
Supervised By :Mahesh Dadoda 04/30/2025

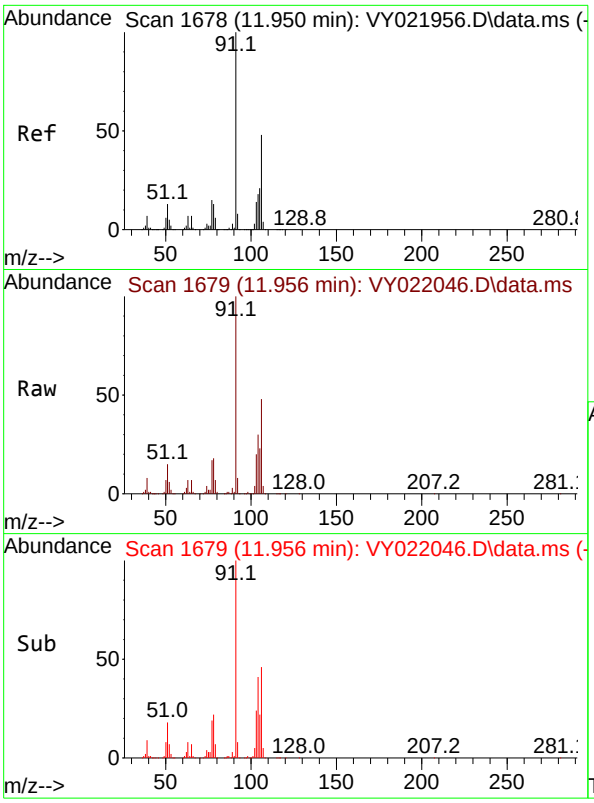


#68
m/p-Xylenes
Concen: 97.760 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:106 Resp: 645425

Ion	Ratio	Lower	Upper
106	100		
91	193.2	156.2	234.2

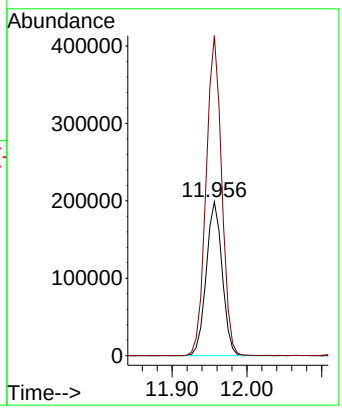




#69
o-Xylene
Concen: 48.395 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:106 Resp: 29448

Ion	Ratio	Lower	Upper
106	100		
91	203.5	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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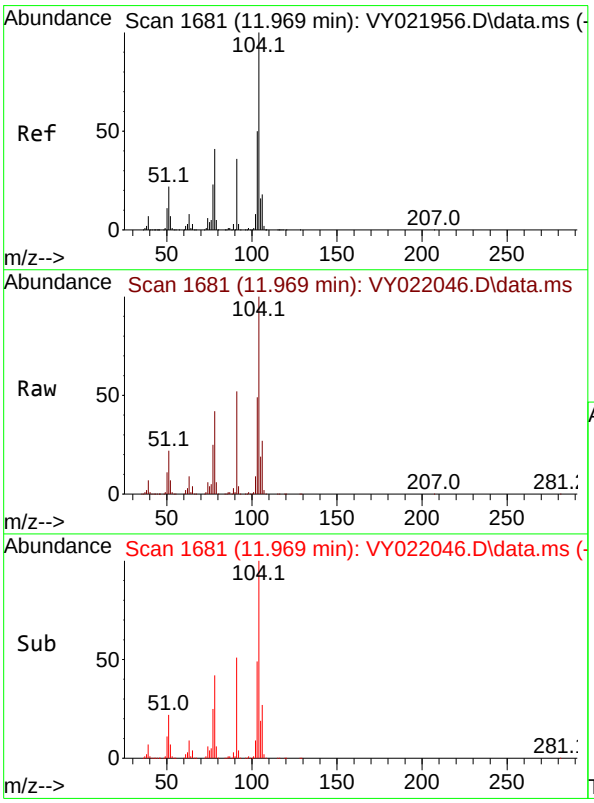
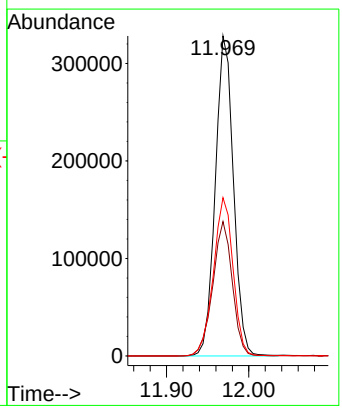
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

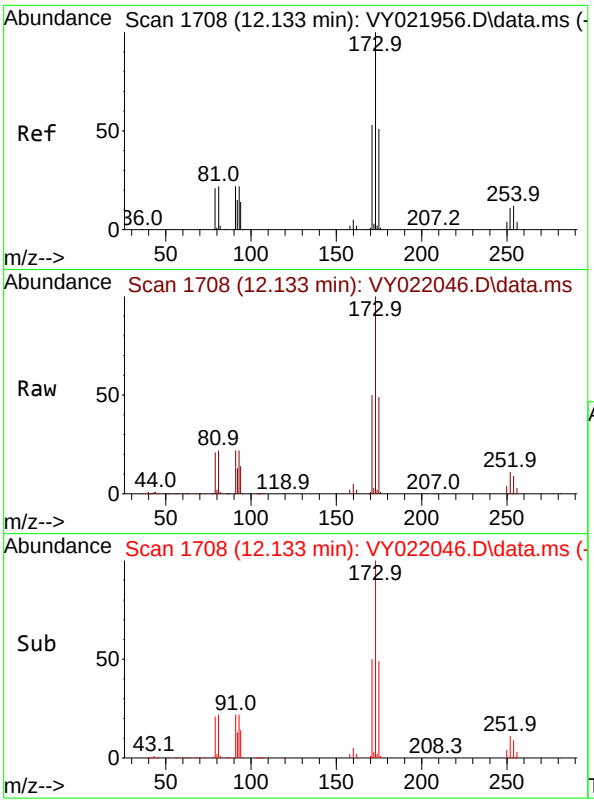


#70
Styrene
Concen: 49.256 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:104 Resp: 503254

Ion	Ratio	Lower	Upper
104	100		
78	45.2	36.6	54.8
103	53.7	43.8	65.8

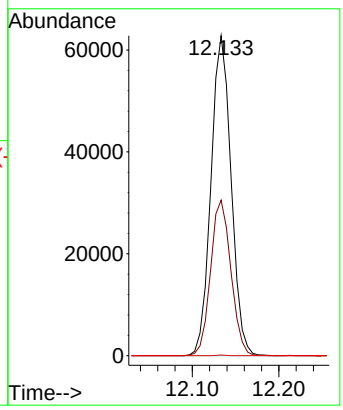




#71
Bromoform
Concen: 48.842 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:173 Resp: 10139

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.8
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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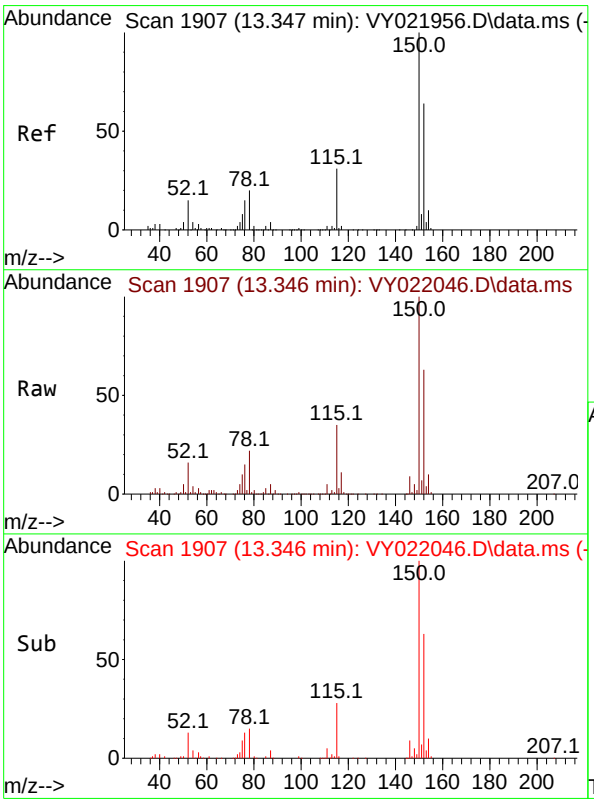
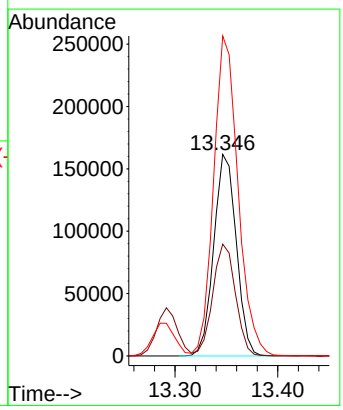
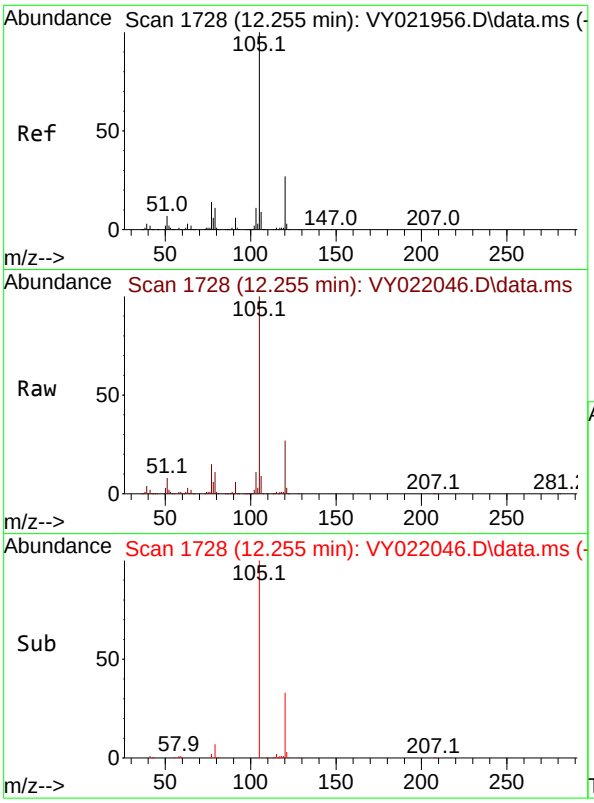


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:152 Resp: 245911

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.0	84.0
150	172.1	0.0	345.6

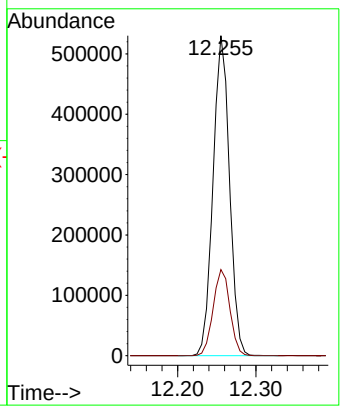




#73
Isopropylbenzene
Concen: 47.173 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:105 Resp: 77502

Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.5



Instrument :
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ClientSampleId :
VSTDCCC050

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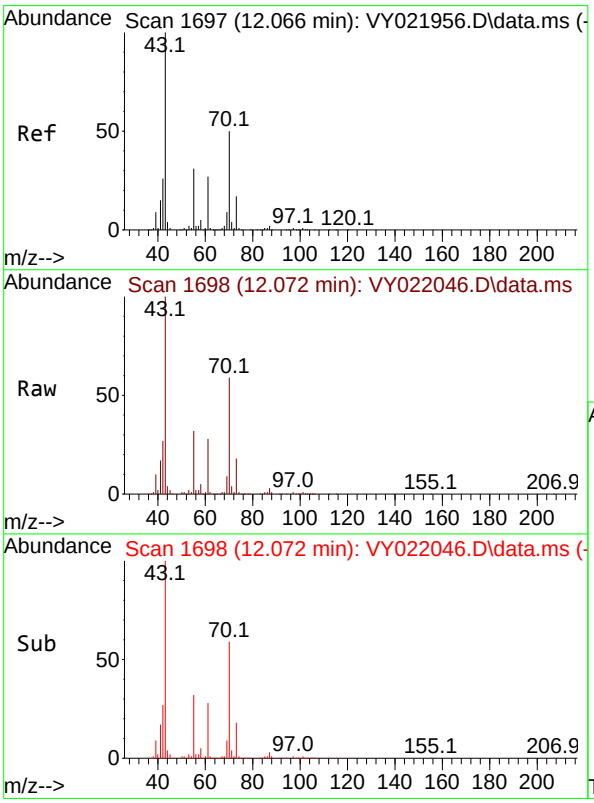
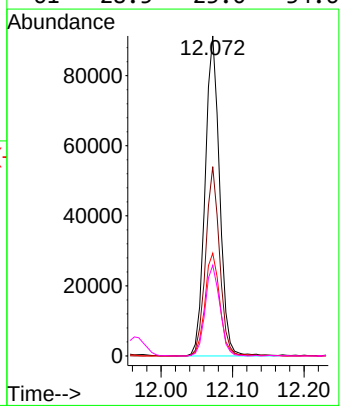
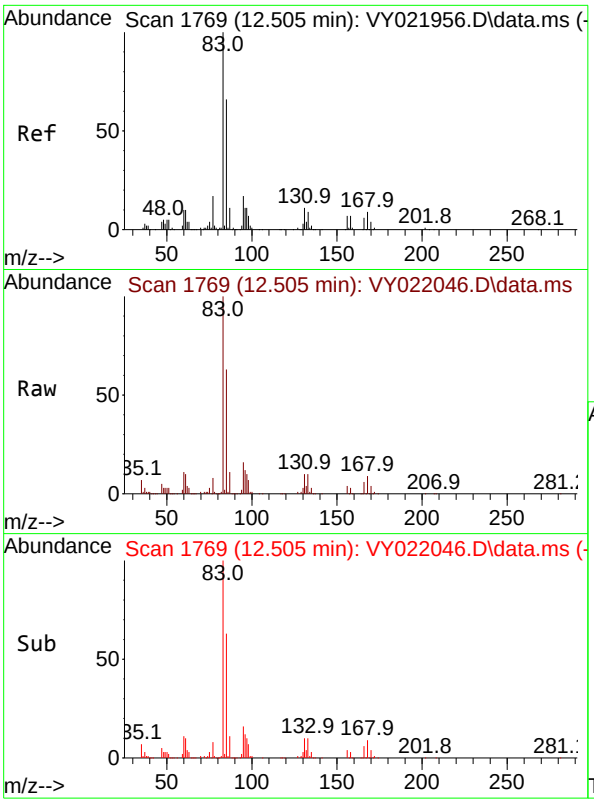


#74
N-amyl acetate
Concen: 45.674 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 43 Resp: 128926

Ion	Ratio	Lower	Upper
43	100		
70	57.0	43.2	64.8
55	33.1	25.7	38.5
61	28.5	23.0	34.6

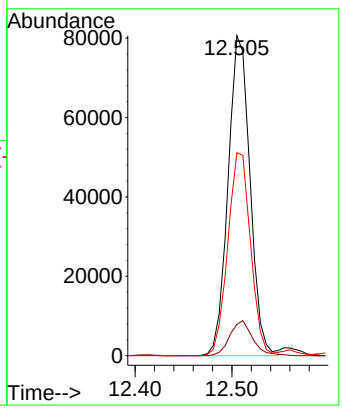




#75
1,1,2,2-Tetrachloroethane
Concen: 45.905 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 83 Resp: 12715

Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.5	16.4
85	65.6	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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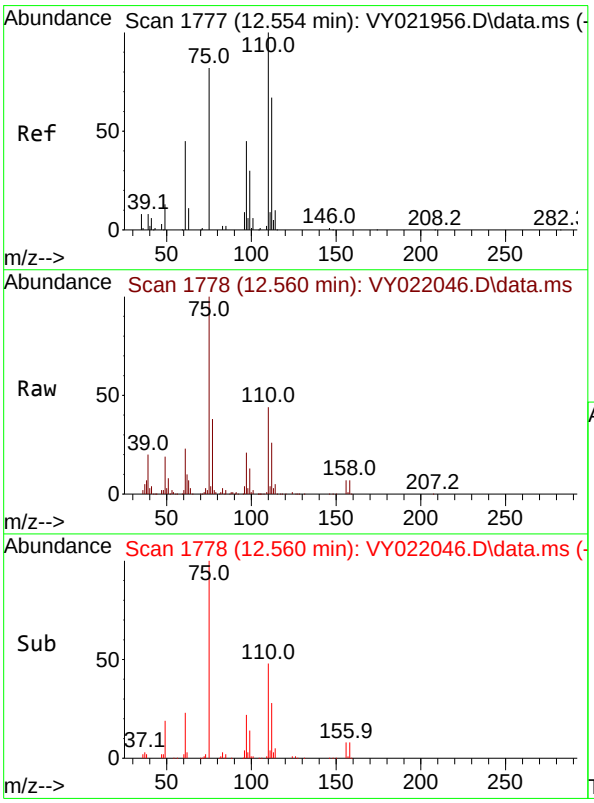
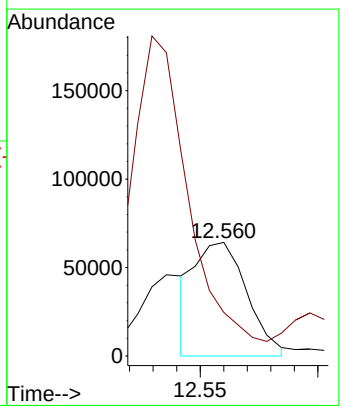
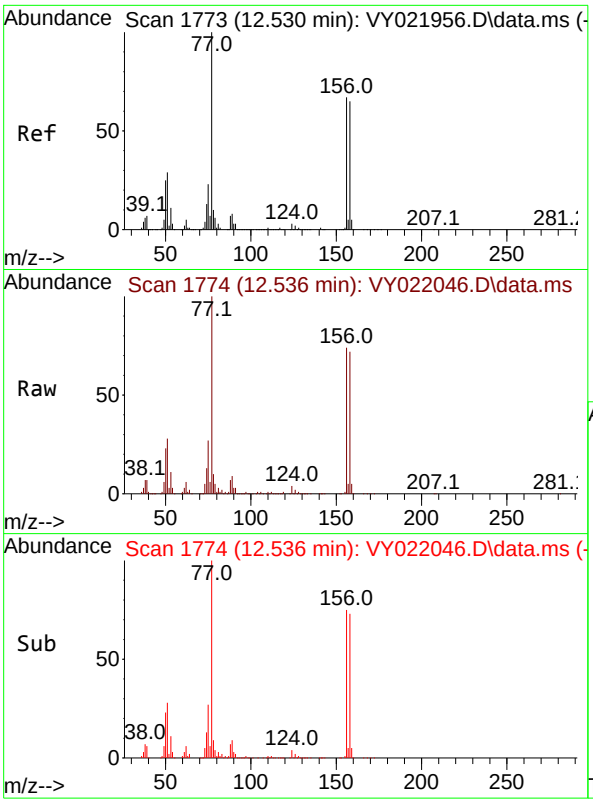


#76
1,2,3-Trichloropropane
Concen: 47.092 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 75 Resp: 99193

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

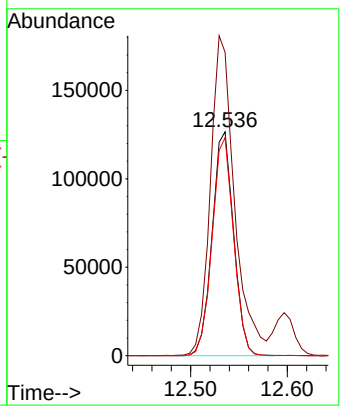




#77
Bromobenzene
Concen: 47.020 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:156 Resp: 19520

Ion	Ratio	Lower	Upper
156	100		
77	161.0	82.7	248.1
158	97.1	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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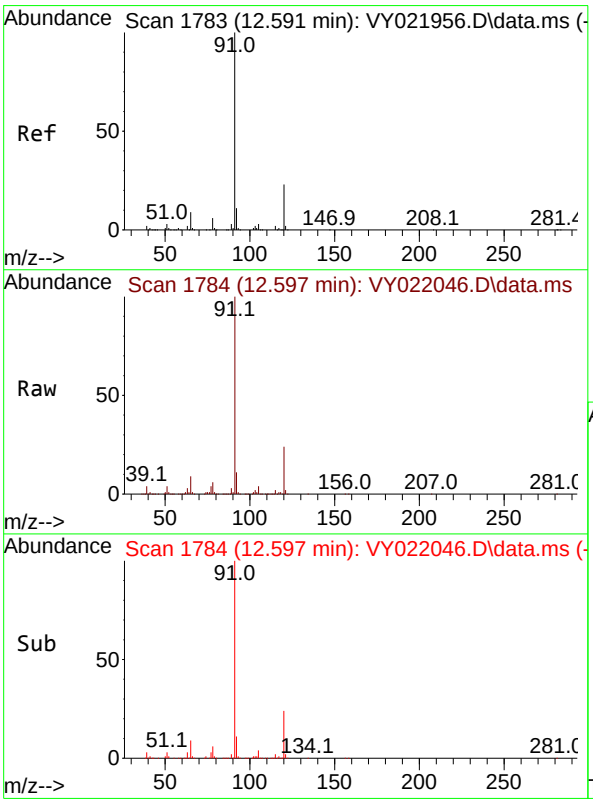
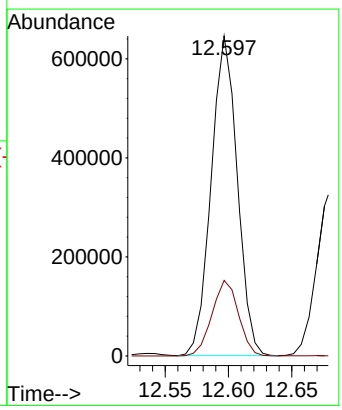
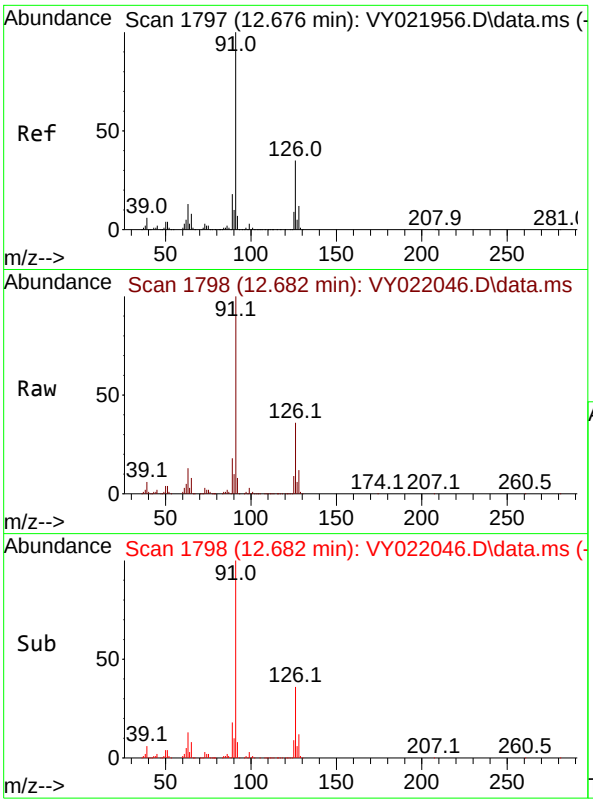


#78
n-propylbenzene
Concen: 47.296 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 91 Resp: 925377

Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.9	35.5

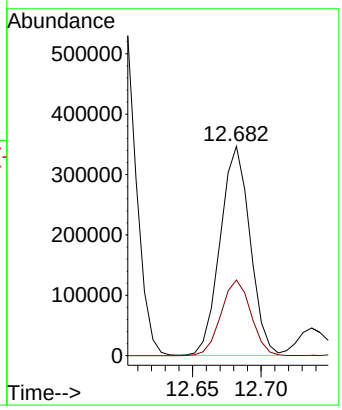




#79
2-Chlorotoluene
Concen: 46.226 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 91 Resp: 52598

Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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Reviewed By :Semsettin Yesilyurt 04/30/2025
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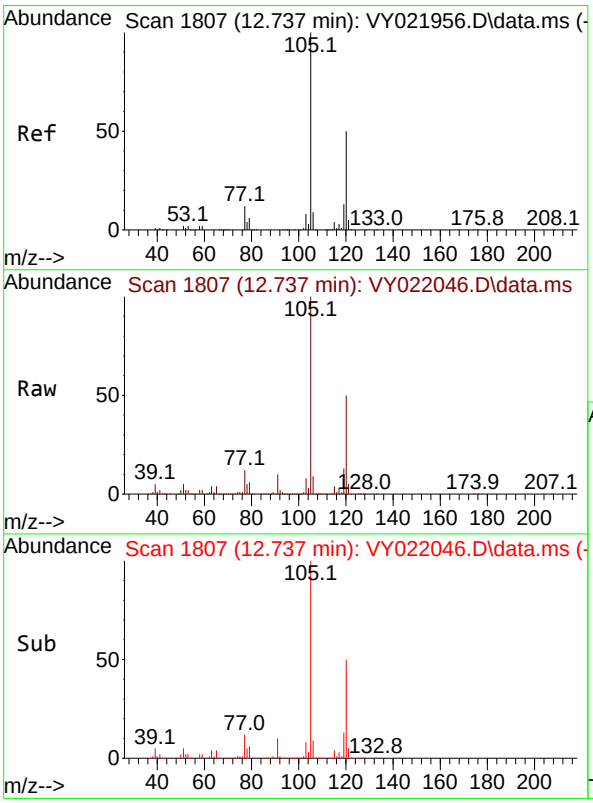
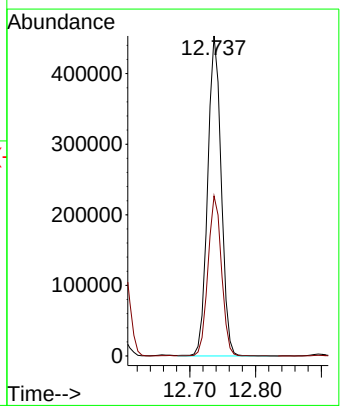
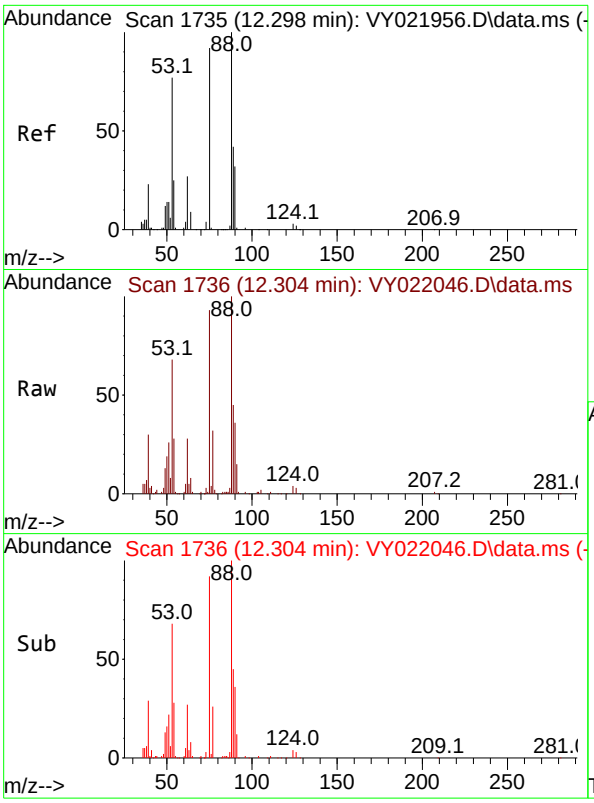


#80
1,3,5-Trimethylbenzene
Concen: 47.830 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:105 Resp: 647472

Ion	Ratio	Lower	Upper
105	100		
120	50.0	25.0	75.0

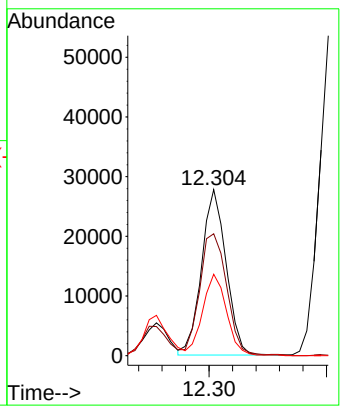




#81
trans-1,4-Dichloro-2-butene
Concen: 45.956 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 75 Resp: 4019

Ion	Ratio	Lower	Upper
75	100		
53	82.4	66.0	99.0
89	48.3	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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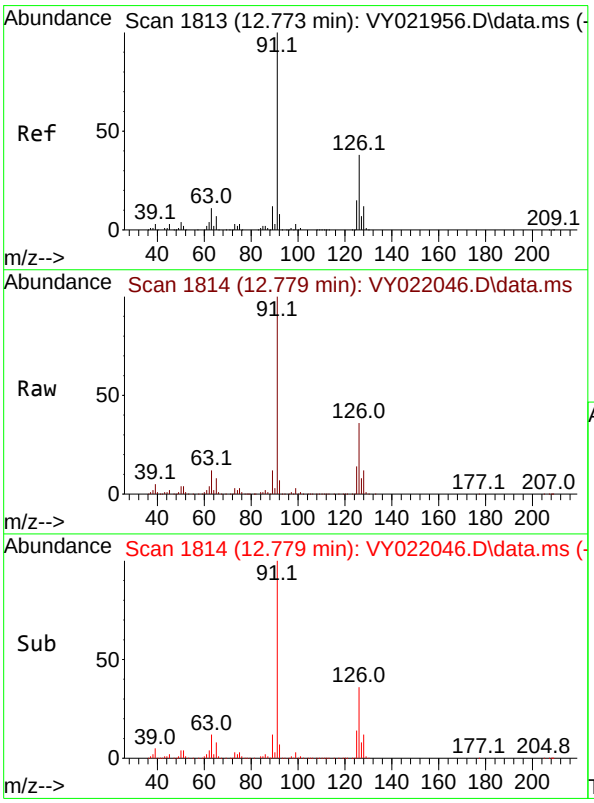
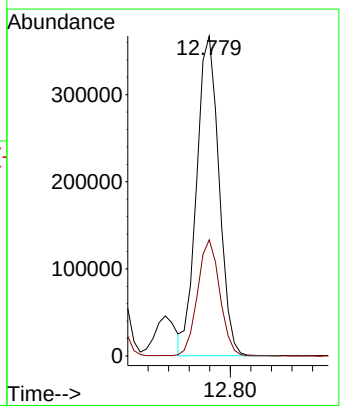
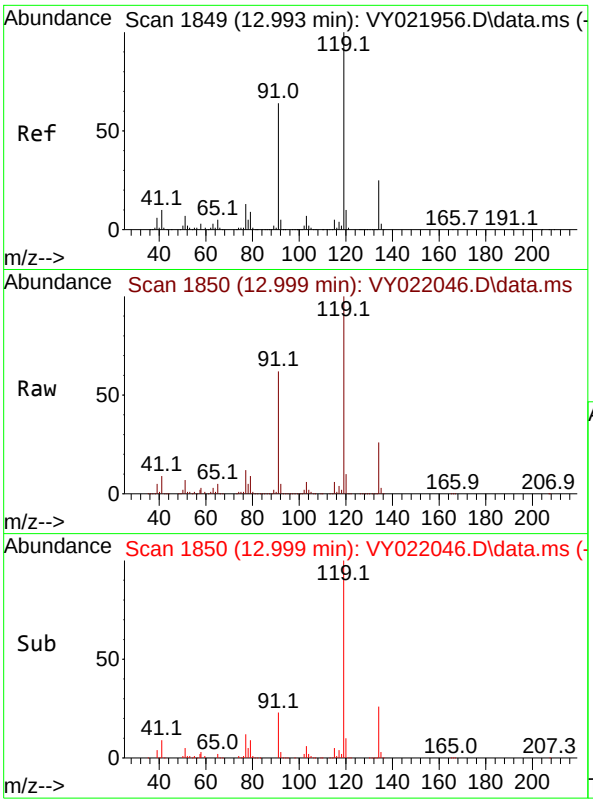


#82
4-Chlorotoluene
Concen: 46.986 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 91 Resp: 555774

Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.9	53.8

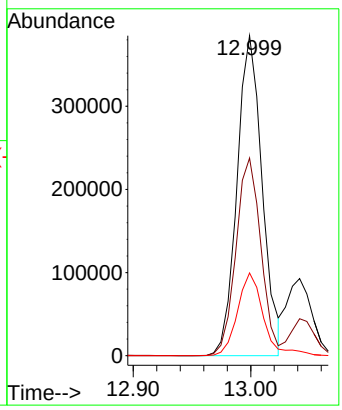




#83
tert-Butylbenzene
Concen: 47.269 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:119 Resp: 57387

Ion	Ratio	Lower	Upper
119	100		
91	61.0	30.3	90.9
134	26.6	12.9	38.7



Instrument :
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ClientSampleId :
VSTDCCC050

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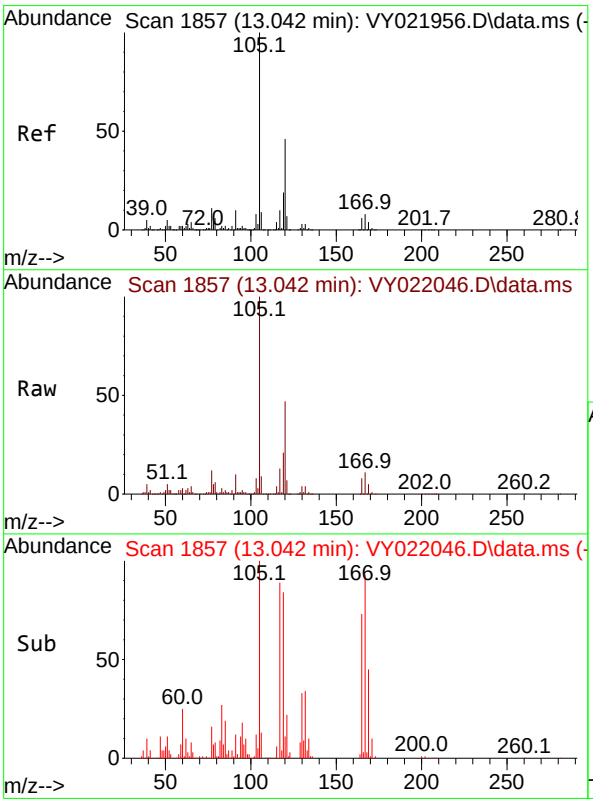
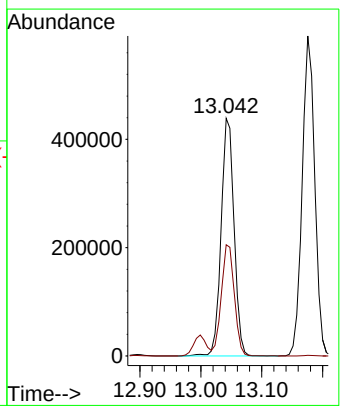
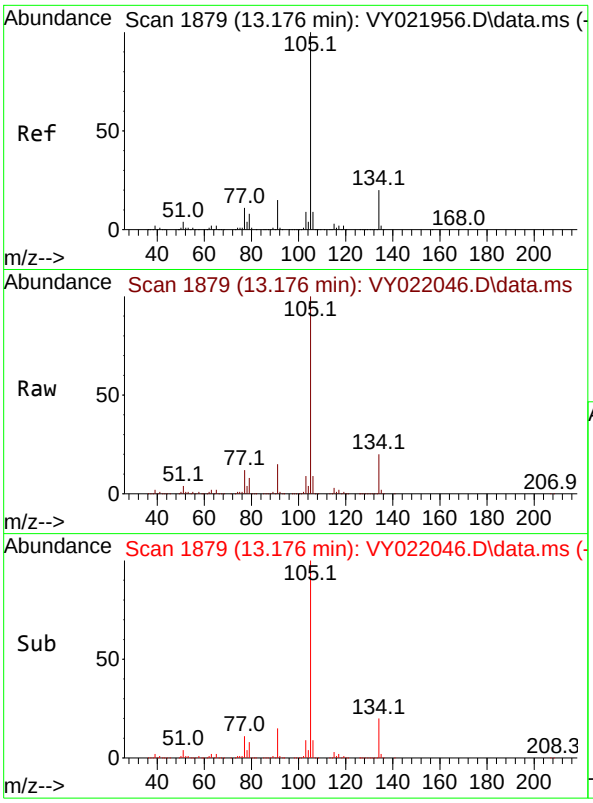


#84
1,2,4-Trimethylbenzene
Concen: 47.887 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:105 Resp: 648390

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.4	70.0

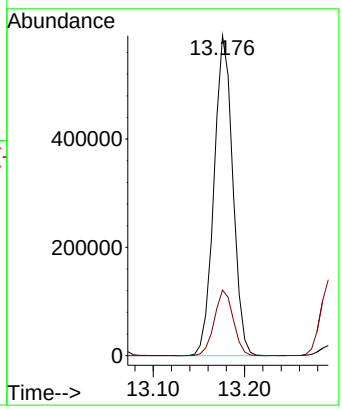




#85
sec-Butylbenzene
Concen: 47.496 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:105 Resp: 84377

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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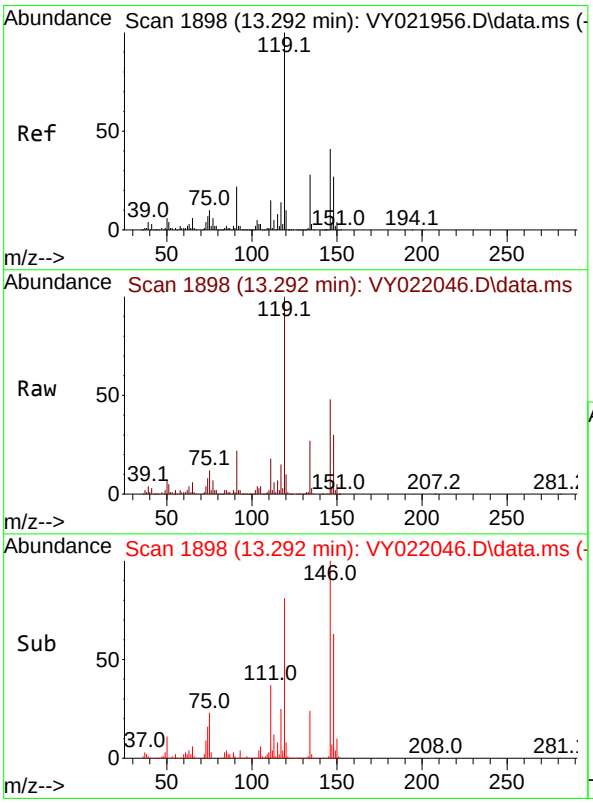
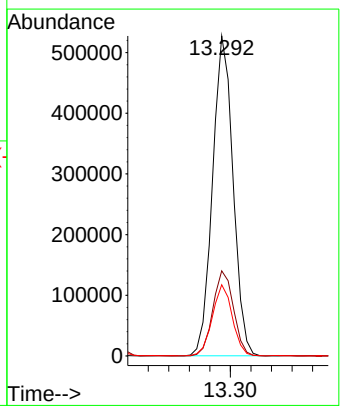
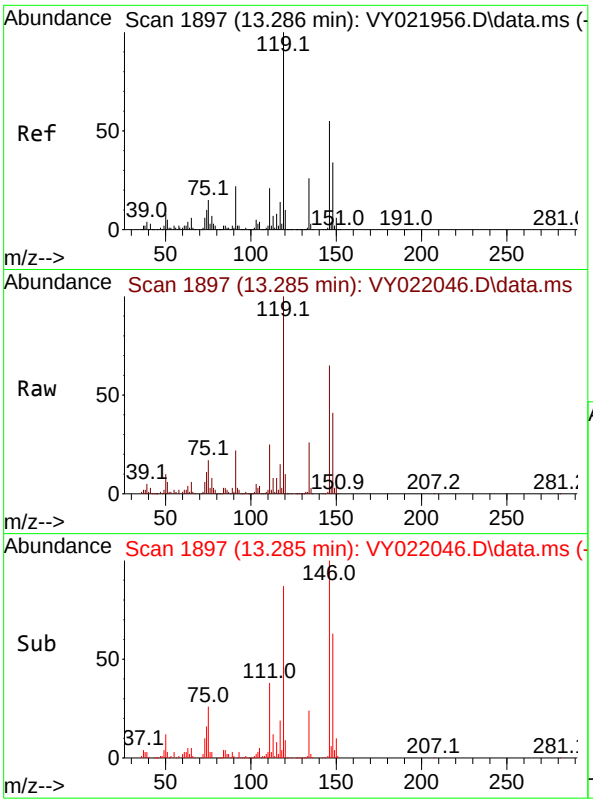


#86
p-Isopropyltoluene
Concen: 48.314 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:119 Resp: 728842

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.6	40.7
91	21.6	11.0	33.0

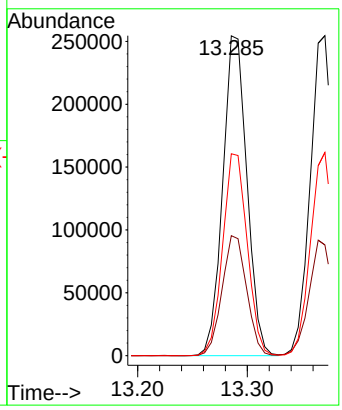




#87
1,3-Dichlorobenzene
Concen: 46.325 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:146 Resp: 39060

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.5
148	64.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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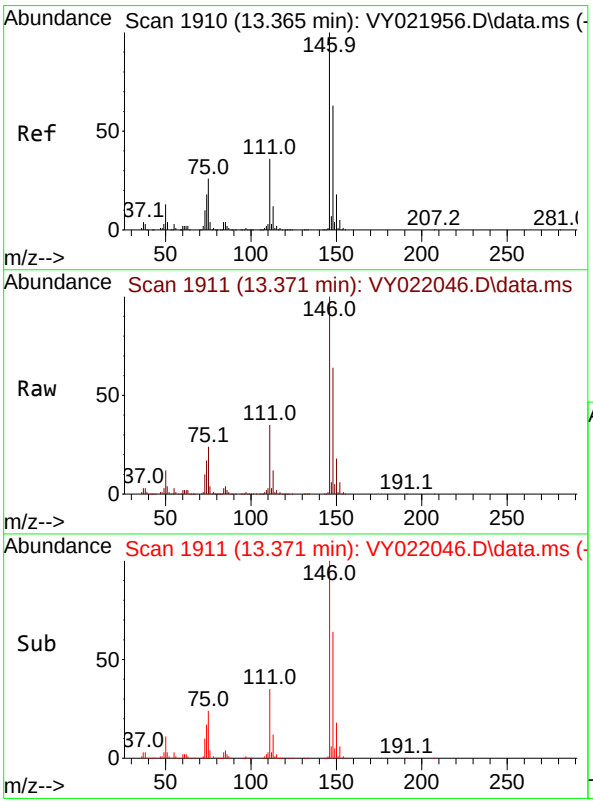
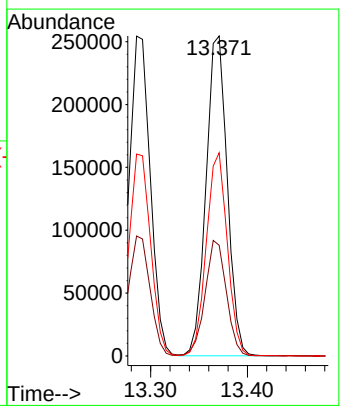
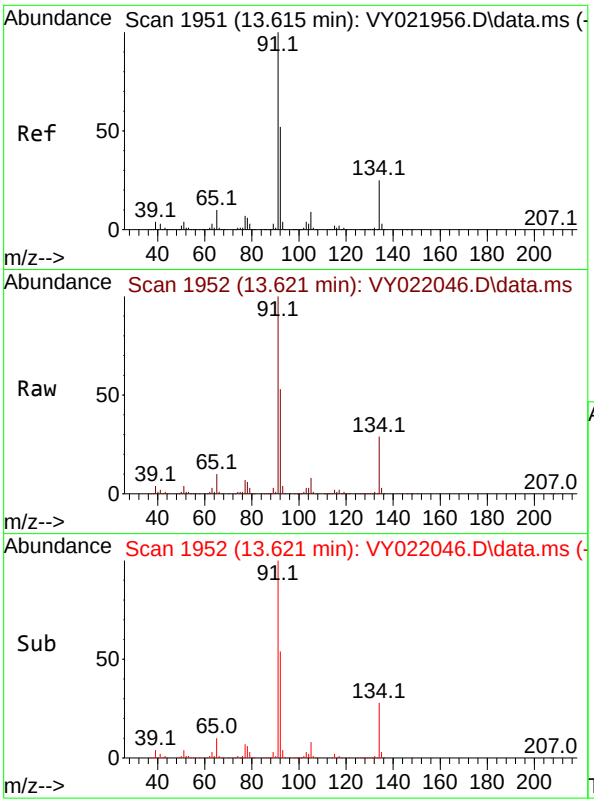


#88
1,4-Dichlorobenzene
Concen: 46.327 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:146 Resp: 386869

Ion	Ratio	Lower	Upper
146	100		
111	36.3	19.2	57.6
148	63.1	32.0	96.0

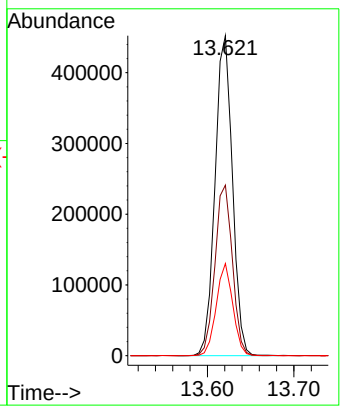




#89
n-Butylbenzene
Concen: 46.748 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 91 Resp: 63034

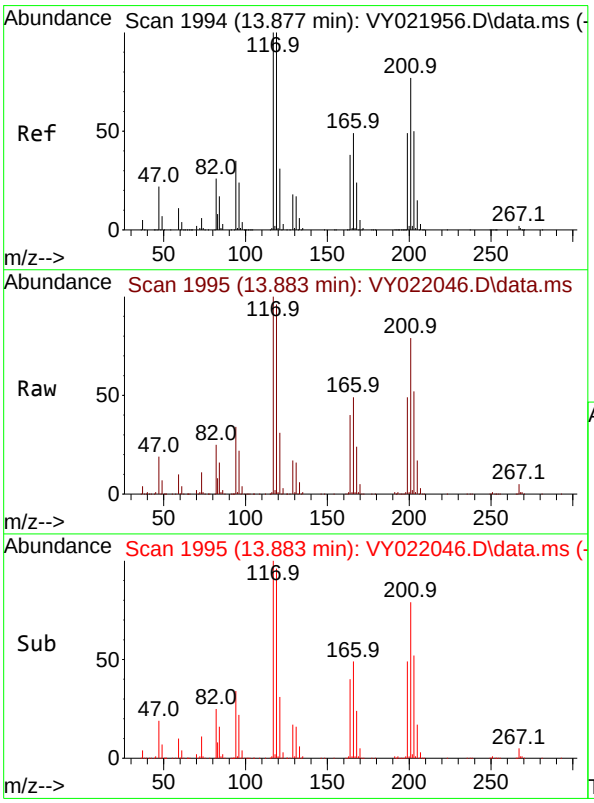
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.5	79.5
134	27.5	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

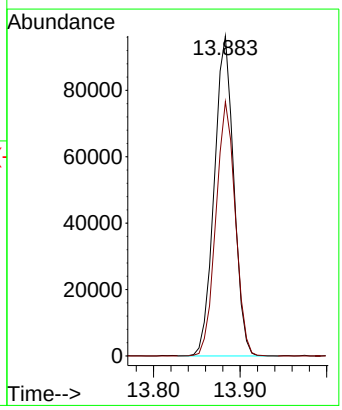
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

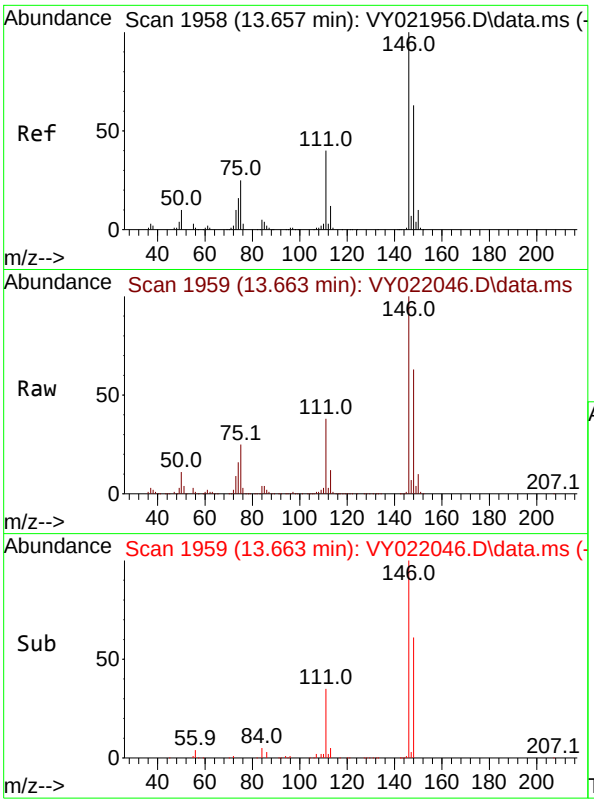


#90
Hexachloroethane
Concen: 45.482 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:117 Resp: 150746

Ion	Ratio	Lower	Upper
117	100		
201	79.0	38.7	116.1

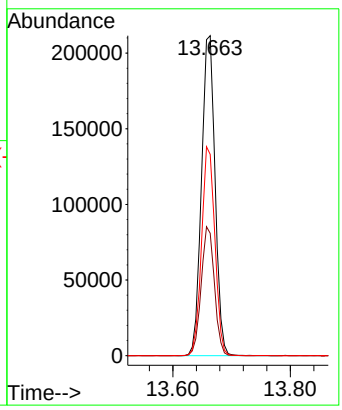




#91
1,2-Dichlorobenzene
Concen: 46.013 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:146 Resp: 33838

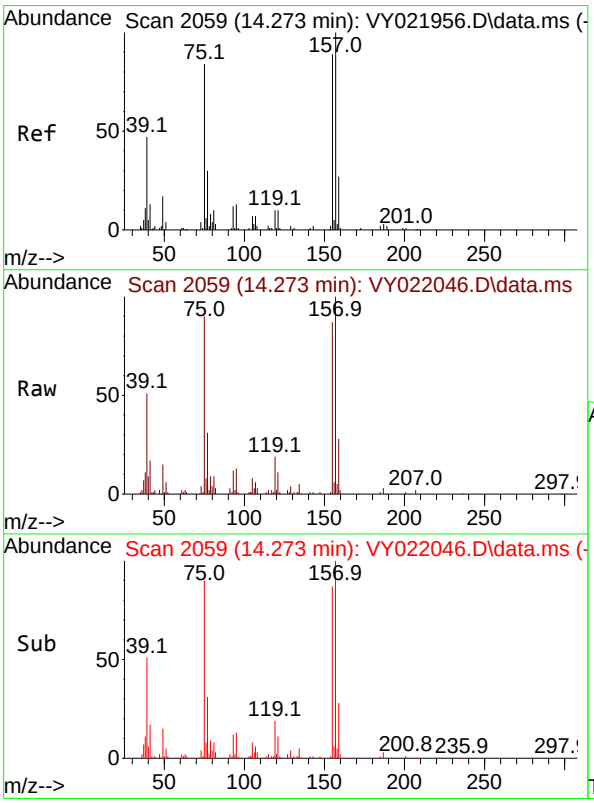
Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.7	59.1
148	64.2	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

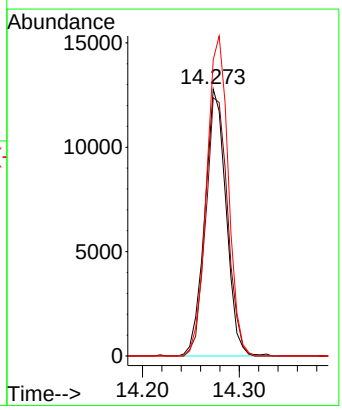
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

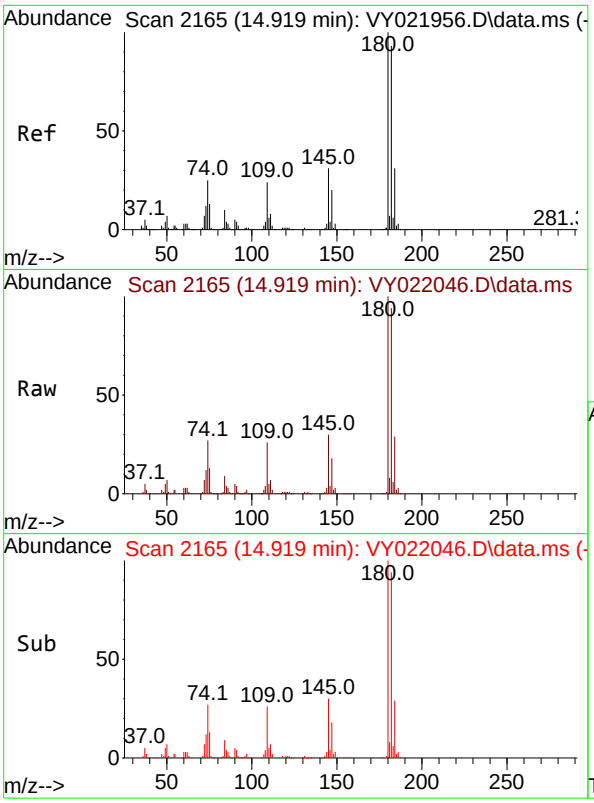


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.539 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion: 75 Resp: 19628

Ion	Ratio	Lower	Upper
75	100		
155	99.1	50.7	152.3
157	120.9	62.6	187.8

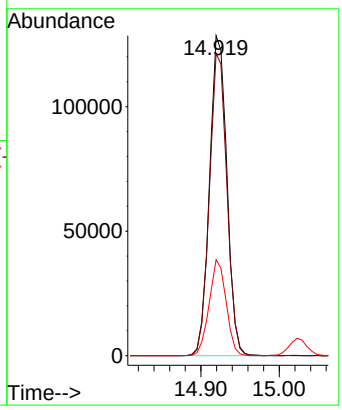




#93
1,2,4-Trichlorobenzene
Concen: 47.361 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:180 Resp: 19737

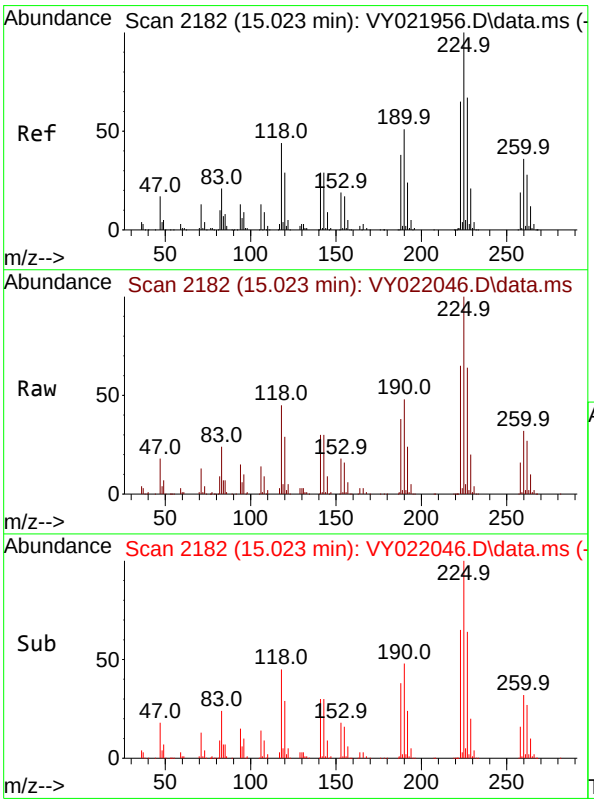
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.1	141.4
145	29.4	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

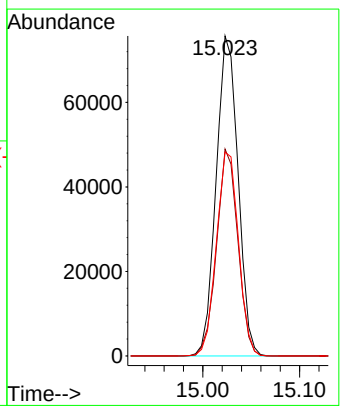
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

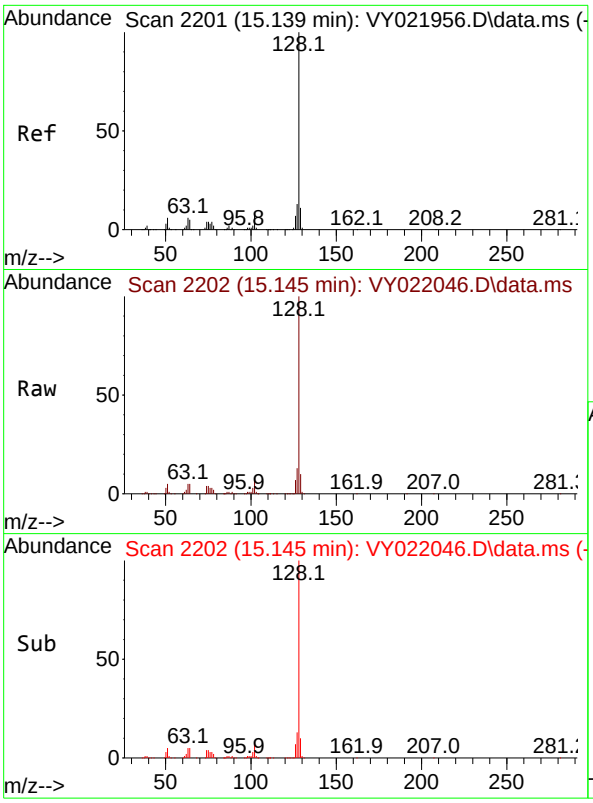


#94
Hexachlorobutadiene
Concen: 46.396 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:225 Resp: 118961

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.9	95.5
227	64.3	32.3	96.9

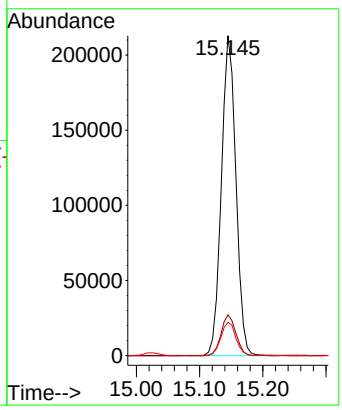




#95
Naphthalene
Concen: 48.746 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:128 Resp: 33746

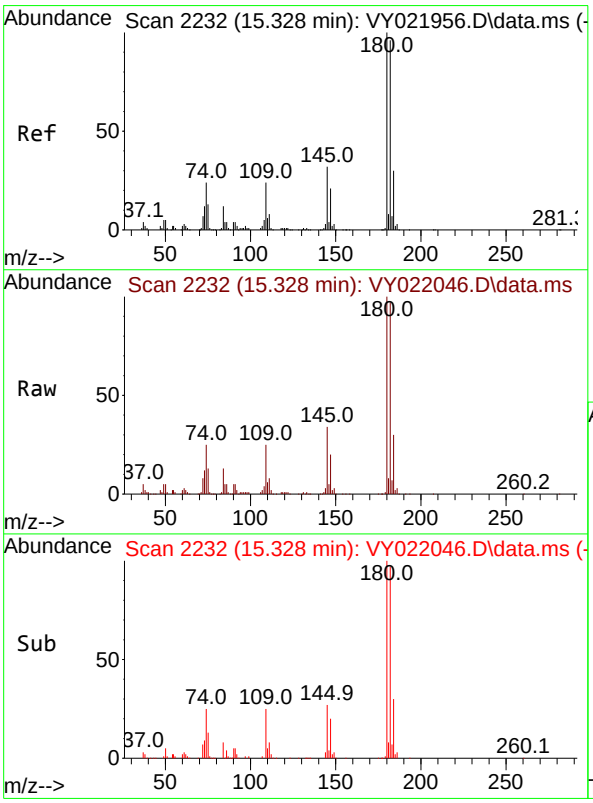
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.9	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

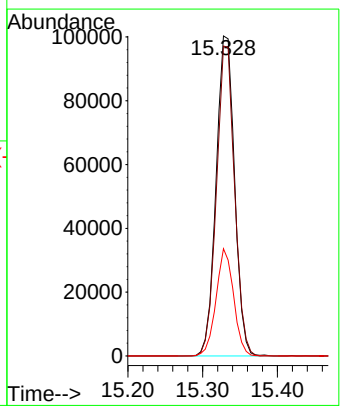
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.880 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022046.D
Acq: 29 Apr 2025 09:28

Tgt Ion:180 Resp: 172242

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.1	144.4
145	31.9	16.0	48.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
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 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	103	0.00
2	T	Dichlorodifluoromethane	0.426	0.371	12.9	97	0.00
3	P	Chloromethane	0.607	0.532	12.4	91	0.00
4	C	Vinyl Chloride	0.745	0.666	10.6#	94	0.00
5	T	Bromomethane	0.642	0.514	19.9	89	0.00
6	T	Chloroethane	0.508	0.429	15.6	89	0.00
7	T	Trichlorofluoromethane	0.983	0.856	12.9	92	0.00
8	T	Diethyl Ether	0.256	0.216	15.6	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.533	0.466	12.6	98	0.00
10	T	Methyl Iodide	0.617	0.574	7.0	94	0.00
11	T	Tert butyl alcohol	0.025	0.023	8.0	89	0.00
12	CM	1,1-Dichloroethene	0.497	0.442	11.1#	96	0.00
13	T	Acrolein	0.046	0.043	6.5	103	0.00
14	T	Allyl chloride	0.579	0.501	13.5	93	0.00
15	T	Acrylonitrile	0.094	0.084	10.6	92	0.00
16	T	Acetone	0.070	0.065	7.1	106	0.00
17	T	Carbon Disulfide	1.585	1.366	13.8	94	0.00
18	T	Methyl Acetate	0.216	0.209	3.2	96	0.00
19	T	Methyl tert-butyl Ether	1.113	1.008	9.4	91	0.00
20	T	Methylene Chloride	0.584	0.468	19.9	90	0.00
21	T	trans-1,2-Dichloroethene	0.557	0.489	12.2	94	0.01
22	T	Diisopropyl ether	1.288	1.156	10.2	92	0.00
23	T	Vinyl Acetate	0.694	0.630	9.2	90	0.00
24	P	1,1-Dichloroethane	0.893	0.776	13.1	93	0.00
25	T	2-Butanone	0.105	0.098	6.7	95	0.00
26	T	2,2-Dichloropropane	0.782	0.709	9.3	98	0.00
27	T	cis-1,2-Dichloroethene	0.622	0.558	10.3	94	0.00
28	T	Bromochloromethane	0.347	0.322	7.2	96	0.00
29	T	Tetrahydrofuran	0.068	0.063	7.4	89	0.00
30	C	Chloroform	0.990	0.877	11.4#	94	0.00
31	T	Cyclohexane	0.763	0.661	13.4	96	0.00
32	T	1,1,1-Trichloroethane	0.896	0.789	11.9	95	0.00
33	S	1,2-Dichloroethane-d4	0.462	0.402	13.0	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35	S	Dibromofluoromethane	0.330	0.314	4.8	92	0.00
36	T	1,1-Dichloropropene	0.444	0.412	7.2	94	0.00
37	T	Ethyl Acetate	0.159	0.152	4.4	91	0.00
38	T	Carbon Tetrachloride	0.530	0.509	4.0	97	0.00
39	T	Methylcyclohexane	0.558	0.529	5.2	93	0.00
40	TM	Benzene	1.387	1.301	6.2	95	0.00
41	T	Methacrylonitrile	0.087	0.072	17.2	76	0.00
42	TM	1,2-Dichloroethane	0.343	0.319	7.0	92	0.00
43	T	Isopropyl Acetate	0.306	0.284	7.2	88	0.00
44	TM	Trichloroethene	0.384	0.360	6.3	95	0.00
45	C	1,2-Dichloropropane	0.307	0.287	6.5#	93	0.00
46	T	Dibromomethane	0.192	0.181	5.7	94	0.00
47	T	Bromodichloromethane	0.480	0.457	4.8	94	0.00
48	T	Methyl methacrylate	0.141	0.139	1.4	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
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 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	1.245	1.202	3.5	92	0.00
51	T	4-Methyl-2-Pentanone	0.160	0.161	-0.6	91	0.00
52	CM	Toluene	0.898	0.870	3.1#	95	0.00
53	T	t-1,3-Dichloropropene	0.411	0.393	4.4	92	0.00
54	T	cis-1,3-Dichloropropene	0.489	0.462	5.5	93	0.00
55	T	1,1,2-Trichloroethane	0.256	0.247	3.5	94	0.00
56	T	Ethyl methacrylate	0.293	0.293	0.0	90	0.00
57	T	1,3-Dichloropropane	0.411	0.395	3.9	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.143	0.152	-6.3	92	0.00
59	T	2-Hexanone	0.106	0.109	-2.8	92	0.00
60	T	Dibromochloromethane	0.355	0.349	1.7	96	0.00
61	T	1,2-Dibromoethane	0.242	0.236	2.5	95	0.00
62	S	4-Bromofluorobenzene	0.419	0.404	3.6	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.472	0.449	4.9	98	0.00
65	PM	Chlorobenzene	1.118	1.034	7.5	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.367	6.9	94	0.00
67	C	Ethyl Benzene	1.829	1.744	4.6#	94	0.00
68	T	m/p-Xylenes	0.728	0.712	2.2	96	0.00
69	T	o-Xylene	0.671	0.649	3.3	93	0.00
70	T	Styrene	1.126	1.110	1.4	94	0.00
71	P	Bromoform	0.229	0.224	2.2	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.341	3.152	5.7	95	0.00
74	T	N-amyl acetate	0.574	0.524	8.7	89	0.00
75	P	1,1,2,2-Tetrachloroethane	0.563	0.517	8.2	94	0.00
76	T	1,2,3-Trichloropropane	0.428	0.403	5.8	100	0.00
77	T	Bromobenzene	0.844	0.794	5.9	96	0.00
78	T	n-propylbenzene	3.978	3.763	5.4	95	0.00
79	T	2-Chlorotoluene	2.314	2.139	7.6	94	0.00
80	T	1,3,5-Trimethylbenzene	2.752	2.633	4.3	94	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.163	8.4	92	0.00
82	T	4-Chlorotoluene	2.405	2.260	6.0	95	0.00
83	T	tert-Butylbenzene	2.468	2.334	5.4	94	0.00
84	T	1,2,4-Trimethylbenzene	2.753	2.637	4.2	95	0.00
85	T	sec-Butylbenzene	3.612	3.431	5.0	95	0.00
86	T	p-Isopropyltoluene	3.067	2.964	3.4	96	0.00
87	T	1,3-Dichlorobenzene	1.714	1.588	7.4	96	0.00
88	T	1,4-Dichlorobenzene	1.698	1.573	7.4	97	0.00
89	T	n-Butylbenzene	2.742	2.563	6.5	93	0.00
90	T	Hexachloroethane	0.674	0.613	9.1	96	0.00
91	T	1,2-Dichlorobenzene	1.495	1.376	8.0	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.090	0.080	11.1	95	0.00
93	T	1,2,4-Trichlorobenzene	0.847	0.803	5.2	98	0.00
94	T	Hexachlorobutadiene	0.521	0.484	7.1	101	0.00
95	T	Naphthalene	1.408	1.372	2.6	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
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 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	0.731	0.700	4.2	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
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 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	103	0.00
2	T	Dichlorodifluoromethane	50.000	43.507	13.0	97	0.00
3	P	Chloromethane	50.000	43.839	12.3	91	0.00
4	C	Vinyl Chloride	50.000	44.638	10.7#	94	0.00
5	T	Bromomethane	50.000	39.979	20.0	89	0.00
6	T	Chloroethane	50.000	42.293	15.4	89	0.00
7	T	Trichlorofluoromethane	50.000	43.517	13.0	92	0.00
8	T	Diethyl Ether	50.000	42.265	15.5	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	43.664	12.7	98	0.00
10	T	Methyl Iodide	50.000	46.504	7.0	94	0.00
11	T	Tert butyl alcohol	250.000	223.602	10.6	89	0.00
12	CM	1,1-Dichloroethene	50.000	44.442	11.1#	96	0.00
13	T	Acrolein	250.000	233.968	6.4	103	0.00
14	T	Allyl chloride	50.000	43.306	13.4	93	0.00
15	T	Acrylonitrile	250.000	223.027	10.8	92	0.00
16	T	Acetone	250.000	271.364	-8.5	106	0.00
17	T	Carbon Disulfide	50.000	43.107	13.8	94	0.00
18	T	Methyl Acetate	50.000	48.392	3.2	96	0.00
19	T	Methyl tert-butyl Ether	50.000	45.315	9.4	91	0.00
20	T	Methylene Chloride	50.000	40.043	19.9	90	0.00
21	T	trans-1,2-Dichloroethene	50.000	43.924	12.2	94	0.01
22	T	Diisopropyl ether	50.000	44.895	10.2	92	0.00
23	T	Vinyl Acetate	250.000	226.736	9.3	90	0.00
24	P	1,1-Dichloroethane	50.000	43.448	13.1	93	0.00
25	T	2-Butanone	250.000	232.499	7.0	95	0.00
26	T	2,2-Dichloropropane	50.000	45.304	9.4	98	0.00
27	T	cis-1,2-Dichloroethene	50.000	44.805	10.4	94	0.00
28	T	Bromochloromethane	50.000	46.456	7.1	96	0.00
29	T	Tetrahydrofuran	250.000	232.133	7.1	89	0.00
30	C	Chloroform	50.000	44.298	11.4#	94	0.00
31	T	Cyclohexane	50.000	43.306	13.4	96	0.00
32	T	1,1,1-Trichloroethane	50.000	44.057	11.9	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	43.532	12.9	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35	S	Dibromofluoromethane	50.000	47.486	5.0	92	0.00
36	T	1,1-Dichloropropene	50.000	46.442	7.1	94	0.00
37	T	Ethyl Acetate	50.000	47.597	4.8	91	0.00
38	T	Carbon Tetrachloride	50.000	48.012	4.0	97	0.00
39	T	Methylcyclohexane	50.000	47.325	5.3	93	0.00
40	TM	Benzene	50.000	46.906	6.2	95	0.00
41	T	Methacrylonitrile	50.000	41.395	17.2	76	0.00
42	TM	1,2-Dichloroethane	50.000	46.477	7.0	92	0.00
43	T	Isopropyl Acetate	50.000	46.389	7.2	88	0.00
44	TM	Trichloroethene	50.000	46.887	6.2	95	0.00
45	C	1,2-Dichloropropane	50.000	46.764	6.5#	93	0.00
46	T	Dibromomethane	50.000	47.082	5.8	94	0.00
47	T	Bromodichloromethane	50.000	47.592	4.8	94	0.00
48	T	Methyl methacrylate	50.000	49.274	1.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
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 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	997.336	0.3	98	0.00
50	S	Toluene-d8	50.000	48.273	3.5	92	0.00
51	T	4-Methyl-2-Pentanone	250.000	250.912	-0.4	91	0.00
52	CM	Toluene	50.000	48.468	3.1#	95	0.00
53	T	t-1,3-Dichloropropene	50.000	47.779	4.4	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.184	5.6	93	0.00
55	T	1,1,2-Trichloroethane	50.000	48.179	3.6	94	0.00
56	T	Ethyl methacrylate	50.000	49.904	0.2	90	0.00
57	T	1,3-Dichloropropane	50.000	48.021	4.0	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	264.171	-5.7	92	0.00
59	T	2-Hexanone	250.000	257.500	-3.0	92	0.00
60	T	Dibromochloromethane	50.000	49.071	1.9	96	0.00
61	T	1,2-Dibromoethane	50.000	48.774	2.5	95	0.00
62	S	4-Bromofluorobenzene	50.000	48.133	3.7	92	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	47.647	4.7	98	0.00
65	PM	Chlorobenzene	50.000	46.234	7.5	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.647	6.7	94	0.00
67	C	Ethyl Benzene	50.000	47.678	4.6#	94	0.00
68	T	m/p-Xylenes	100.000	97.760	2.2	96	0.00
69	T	o-Xylene	50.000	48.395	3.2	93	0.00
70	T	Styrene	50.000	49.256	1.5	94	0.00
71	P	Bromoform	50.000	48.842	2.3	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	47.173	5.7	95	0.00
74	T	N-amyl acetate	50.000	45.674	8.7	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.905	8.2	94	0.00
76	T	1,2,3-Trichloropropane	50.000	47.092	5.8	100	0.00
77	T	Bromobenzene	50.000	47.020	6.0	96	0.00
78	T	n-propylbenzene	50.000	47.296	5.4	95	0.00
79	T	2-Chlorotoluene	50.000	46.226	7.5	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.830	4.3	94	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.956	8.1	92	0.00
82	T	4-Chlorotoluene	50.000	46.986	6.0	95	0.00
83	T	tert-Butylbenzene	50.000	47.269	5.5	94	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.887	4.2	95	0.00
85	T	sec-Butylbenzene	50.000	47.496	5.0	95	0.00
86	T	p-Isopropyltoluene	50.000	48.314	3.4	96	0.00
87	T	1,3-Dichlorobenzene	50.000	46.325	7.3	96	0.00
88	T	1,4-Dichlorobenzene	50.000	46.327	7.3	97	0.00
89	T	n-Butylbenzene	50.000	46.748	6.5	93	0.00
90	T	Hexachloroethane	50.000	45.482	9.0	96	0.00
91	T	1,2-Dichlorobenzene	50.000	46.013	8.0	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.539	10.9	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.361	5.3	98	0.00
94	T	Hexachlorobutadiene	50.000	46.396	7.2	101	0.00
95	T	Naphthalene	50.000	48.746	2.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
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 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	47.880	4.2	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

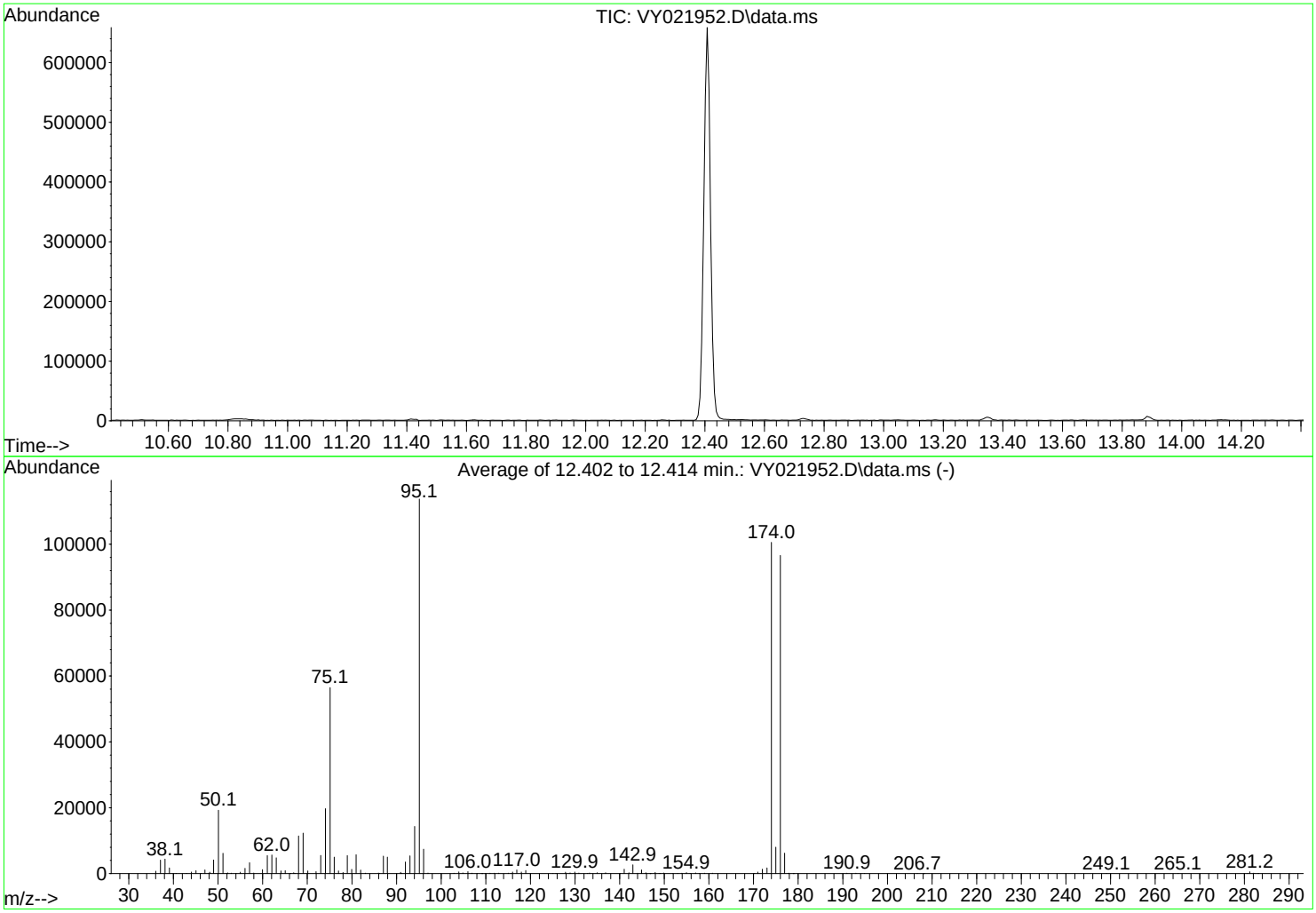
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021952.D
Acq On : 22 Apr 2025 11:33
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\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

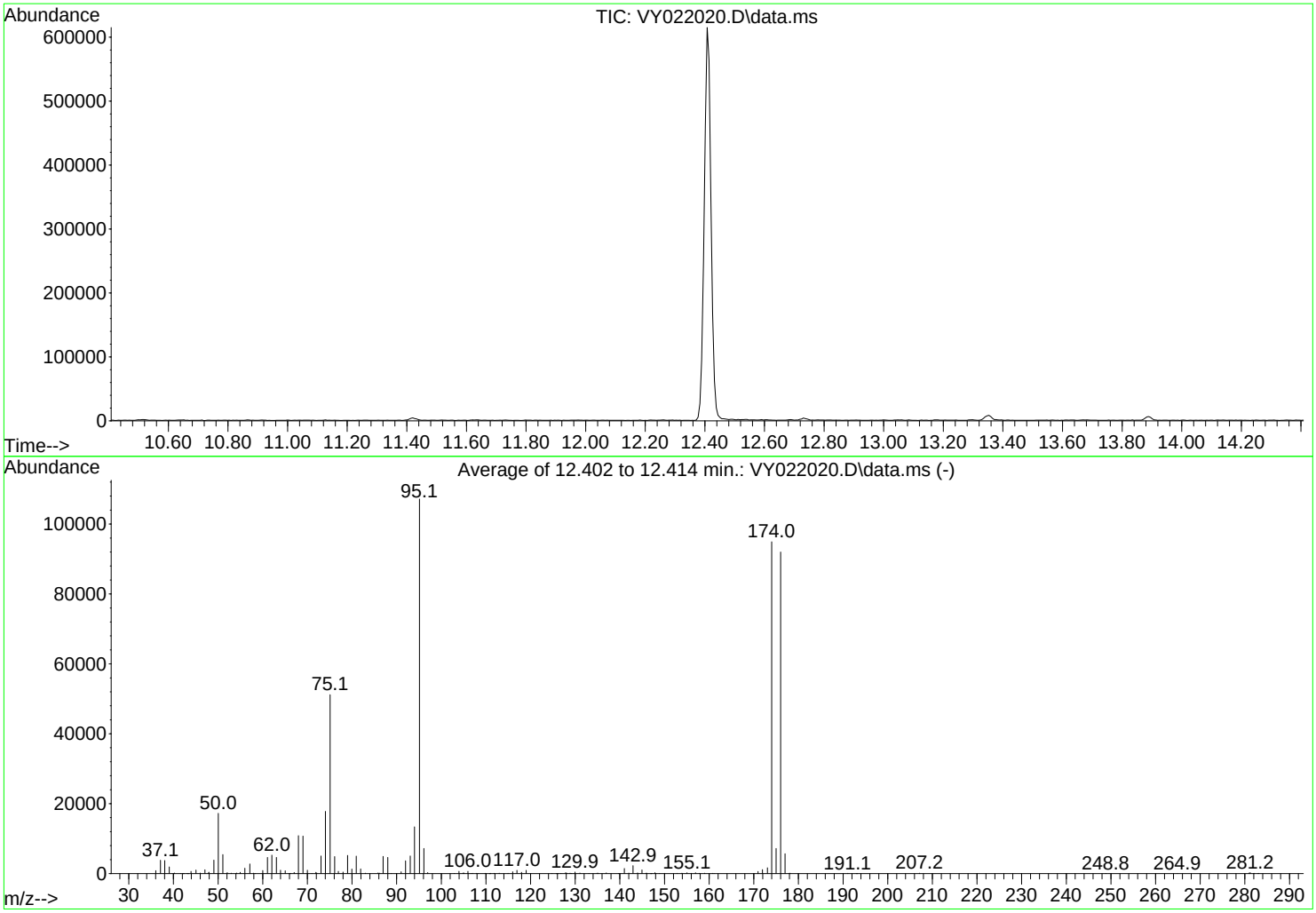
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	19237	PASS
75	95	30	60	49.7	56504	PASS
95	95	100	100	100.0	113749	PASS
96	95	5	9	6.5	7410	PASS
173	174	0.00	2	1.7	1741	PASS
174	95	50	100	88.4	100587	PASS
175	174	5	9	8.0	8046	PASS
176	174	95	101	96.1	96621	PASS
177	176	5	9	6.4	6205	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022020.D
Acq On : 28 Apr 2025 09:29
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

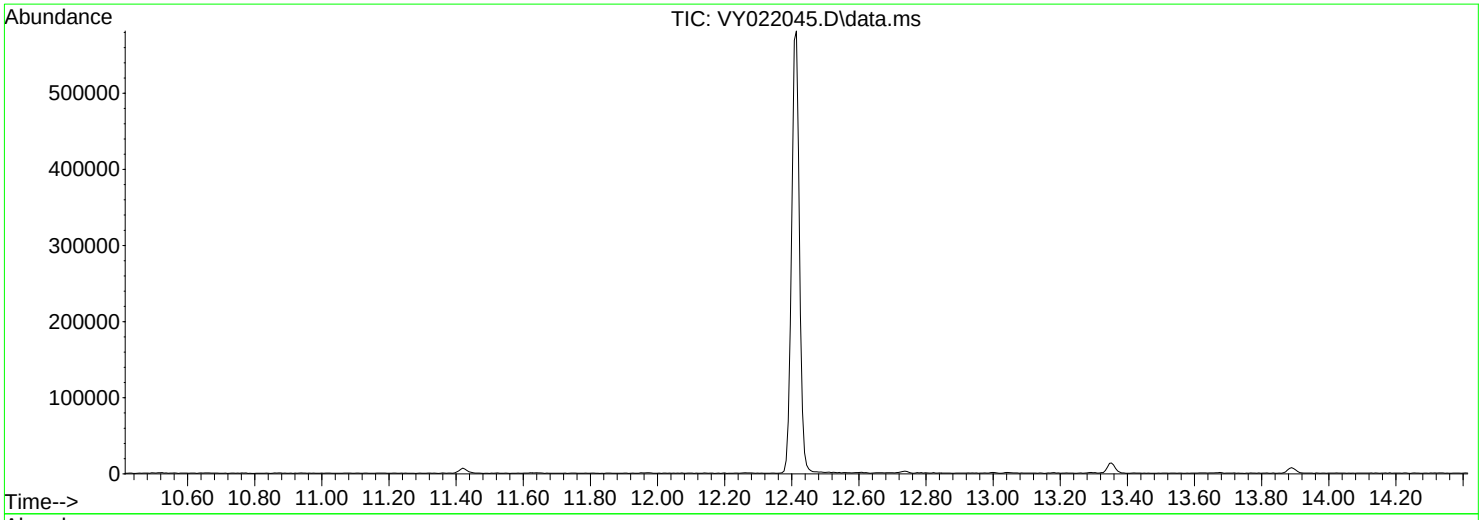
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	17244	PASS
75	95	30	60	47.8	51203	PASS
95	95	100	100	100.0	107171	PASS
96	95	5	9	6.7	7194	PASS
173	174	0.00	2	1.8	1681	PASS
174	95	50	100	88.6	94920	PASS
175	174	5	9	7.6	7210	PASS
176	174	95	101	96.9	92016	PASS
177	176	5	9	6.2	5691	PASS

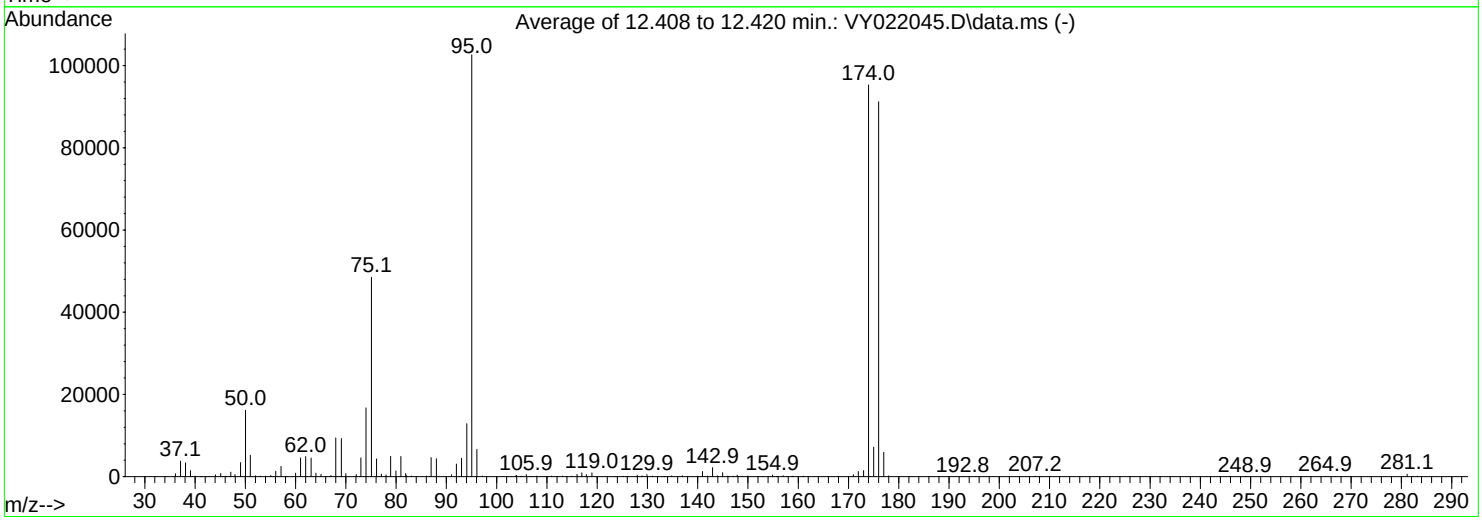
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022045.D
Acq On : 29 Apr 2025 08:20
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 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	15.7	16154	PASS
75	95	30	60	47.3	48515	PASS
95	95	100	100	100.0	102613	PASS
96	95	5	9	6.4	6618	PASS
173	174	0.00	2	1.6	1496	PASS
174	95	50	100	92.9	95285	PASS
175	174	5	9	7.5	7170	PASS
176	174	95	101	95.7	91200	PASS
177	176	5	9	6.5	5928	PASS

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022022.D	1		04/28/25 11:08	VY042825

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
141-78-6	Ethyl Acetate	1.30	U	1.30	5.00	ug/Kg
108-21-4	Isopropyl Acetate	0.91	U	0.91	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
109-99-9	Tetrahydrofuran	4.70	U	4.70	25.0	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
75-65-0	Tert butyl alcohol	13.7	U	13.7	25.0	ug/Kg
60-29-7	Diethyl Ether	0.77	U	0.77	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
107-02-8	Acrolein	8.80	U	8.80	25.0	ug/Kg
107-13-1	Acrylonitrile	5.00	U	5.00	25.0	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
108-05-4	Vinyl Acetate	4.90	U	4.90	25.0	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
594-20-7	2,2-Dichloropropane	1.30	U	1.30	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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022022.D	1		04/28/25 11:08	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
563-58-6	1,1-Dichloropropene	0.87	U	0.87	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
74-95-3	Dibromomethane	0.89	U	0.89	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
80-62-6	Methyl methacrylate	0.74	U	0.74	5.00	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
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
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	3.80	U	3.80	25.0	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
630-20-6	1,1,1,2-Tetrachloroethane	0.77	U	0.77	5.00	ug/Kg
67-72-1	Hexachloroethane	1.10	U	1.10	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
1330-20-7	Total Xylenes	2.02	U	2.02	15.0	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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022022.D	1		04/28/25 11:08	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	1.20	U	1.20	5.00	ug/Kg
108-86-1	Bromobenzene	1.20	U	1.20	5.00	ug/Kg
103-65-1	n-propylbenzene	0.73	U	0.73	5.00	ug/Kg
95-49-8	2-Chlorotoluene	0.68	U	0.68	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.82	U	0.82	5.00	ug/Kg
106-43-4	4-Chlorotoluene	1.20	U	1.20	5.00	ug/Kg
98-06-6	tert-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.64	U	0.64	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.66	U	0.66	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.62	U	0.62	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
104-51-8	n-Butylbenzene	1.50	U	1.50	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
87-68-3	Hexachlorobutadiene	1.90	U	1.90	5.00	ug/Kg
91-20-3	Naphthalene	2.60	U	2.60	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
628-63-7	N-amyl acetate	0.97	U	0.97	5.00	ug/Kg
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/Kg
107-05-1	Allyl chloride	0.78	U	0.78	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	1.10	U	1.10	5.00	ug/Kg
126-98-7	Methacrylonitrile	1.80	U	1.80	5.00	ug/Kg
108-20-3	Diisopropyl ether	0.55	U	0.55	5.00	ug/Kg
123-91-1	1,4-Dioxane	48.1	U	48.1	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	47.1		74 - 123	94%	SPK: 50

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022022.D	1		04/28/25 11:08	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	57.4		38 - 136	115%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 - 134	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	7.713			
540-36-3	1,4-Difluorobenzene	578000	8.616			
3114-55-4	Chlorobenzene-d5	494000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.346			

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\VY042825\
Data File : VY022022.D
Acq On : 28 Apr 2025 11:08
Operator : SY/MD
Sample : VY0428SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBL01

Quant Time: Apr 29 03:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

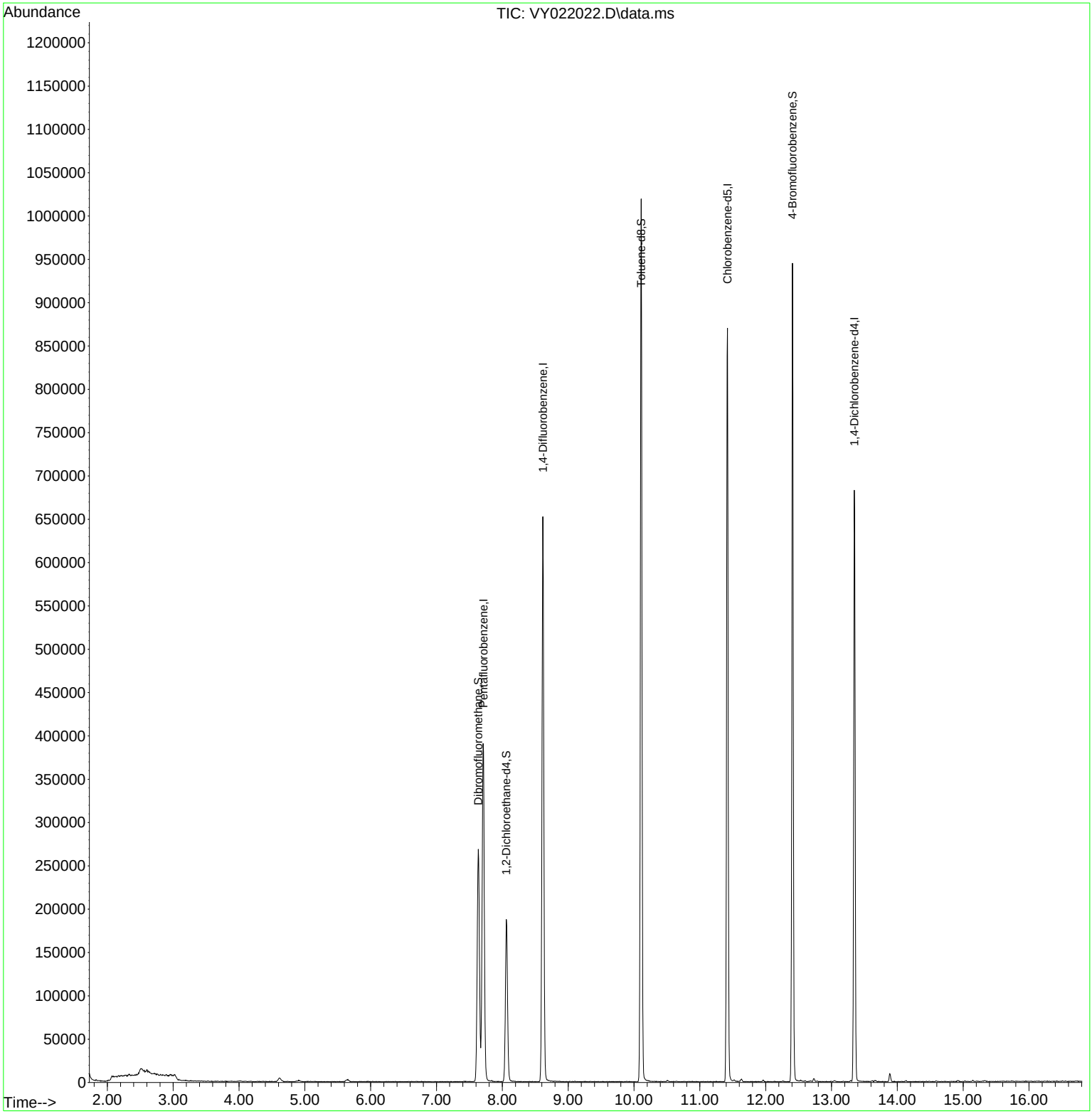
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	311923	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	578371	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	493590	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	183874	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	147843	51.313	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.620%			
35) Dibromofluoromethane	7.634	113	194182	50.819	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.640%			
50) Toluene-d8	10.109	98	678662	47.112	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.220%			
62) 4-Bromofluorobenzene	12.408	95	278168	57.361	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 114.720%			
Target Compounds						Qvalue

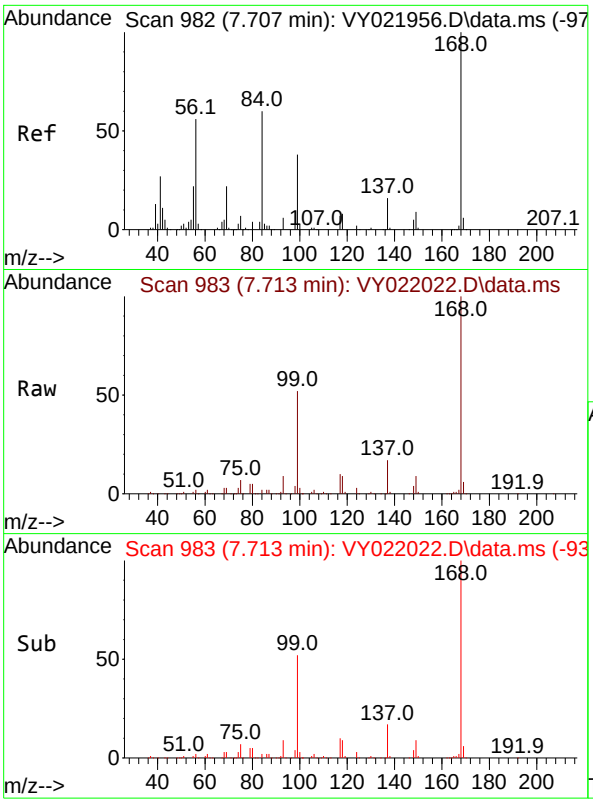
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022022.D
Acq On : 28 Apr 2025 11:08
Operator : SY/MD
Sample : VY0428SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBL01

Quant Time: Apr 29 03:52:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



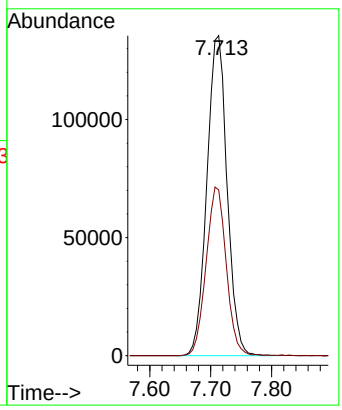


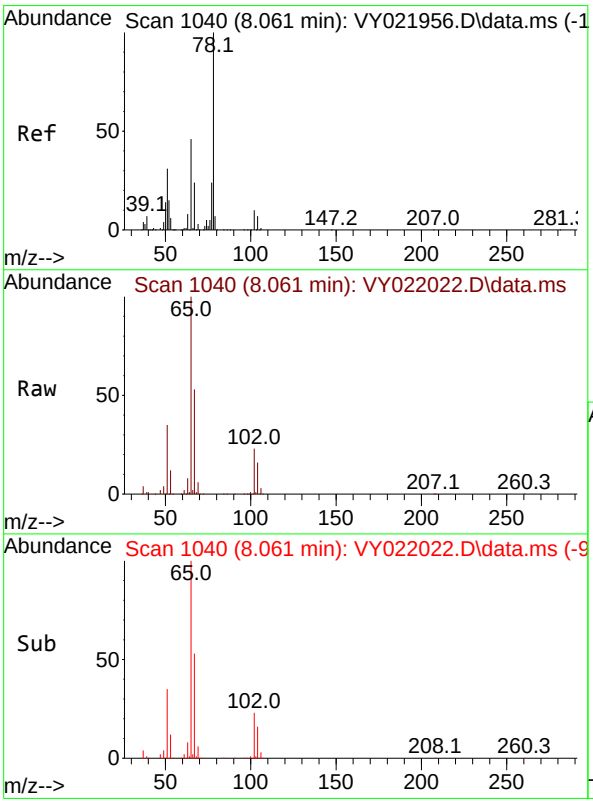
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBL01

Tgt Ion:168 Resp: 311923

Ion	Ratio	Lower	Upper
168	100		
99	51.8	43.1	64.7

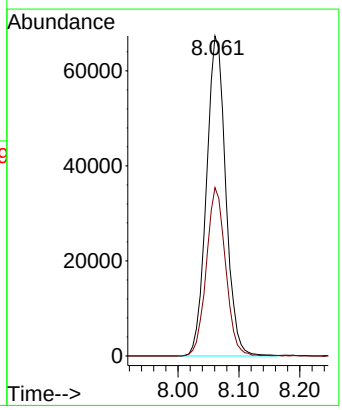


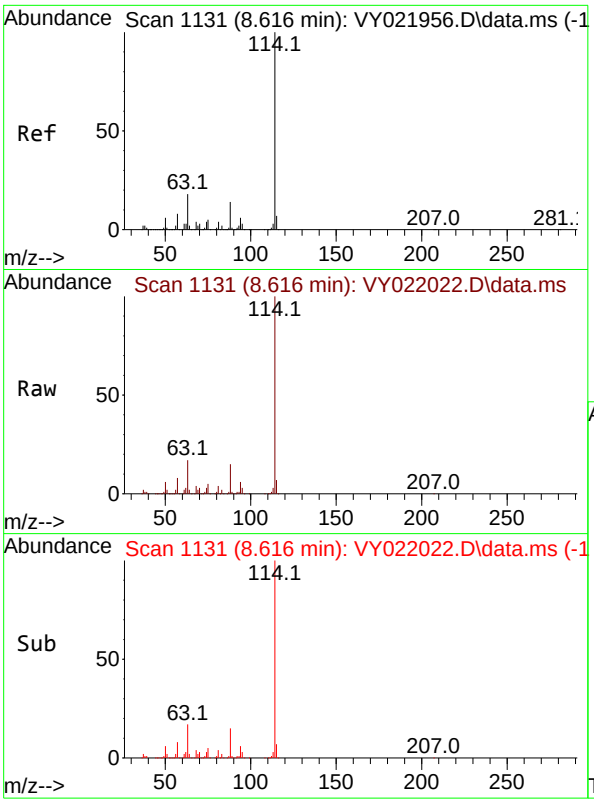


#33
1,2-Dichloroethane-d4
Concen: 51.313 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Tgt Ion: 65 Resp: 147843

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	105.8



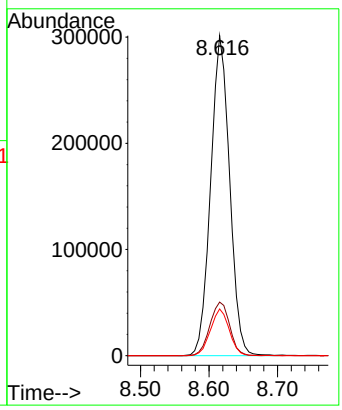


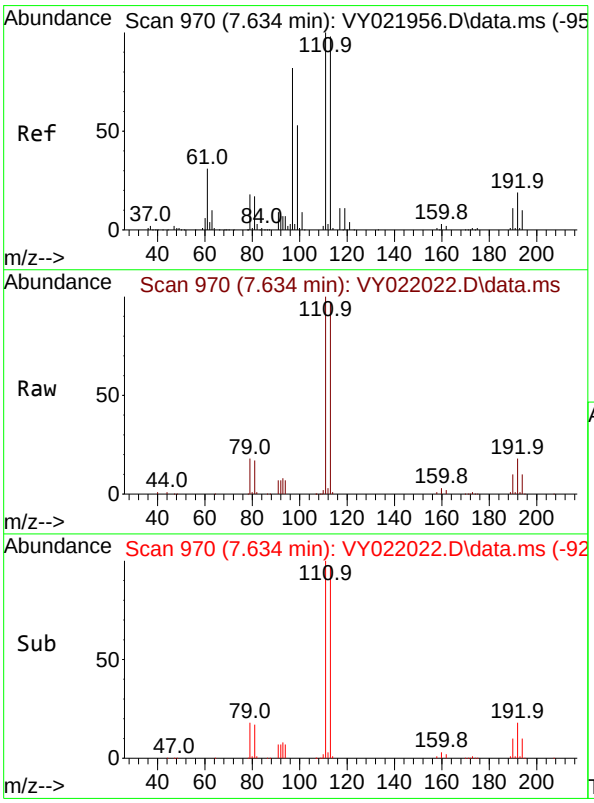
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBL01

Tgt Ion:114 Resp: 578371

Ion	Ratio	Lower	Upper
114	100		
63	16.8	0.0	35.4
88	14.6	0.0	28.2

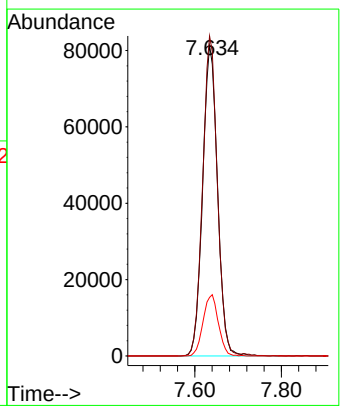


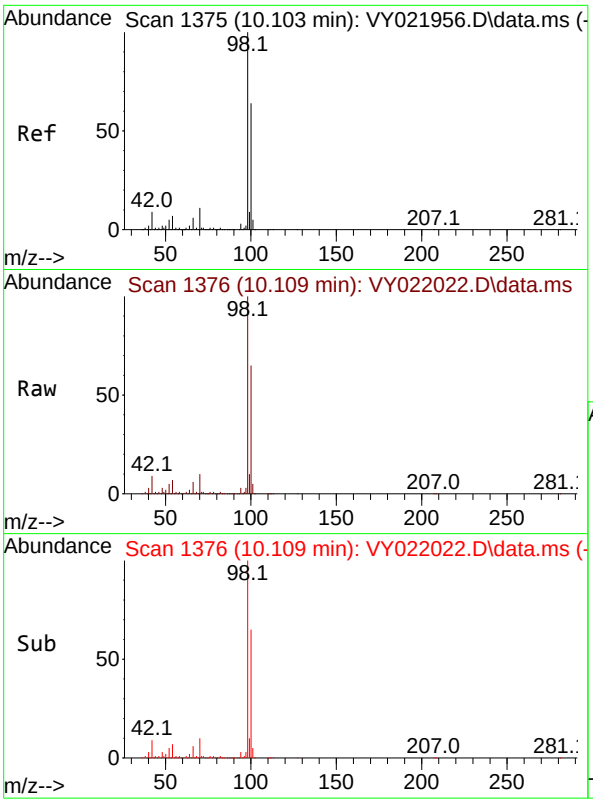


#35
Dibromofluoromethane
Concen: 50.819 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Tgt Ion:113 Resp: 194182

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.8
192	20.2	15.6	23.4



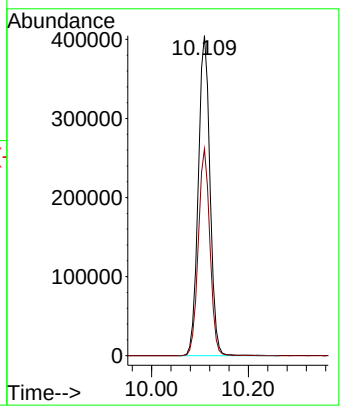


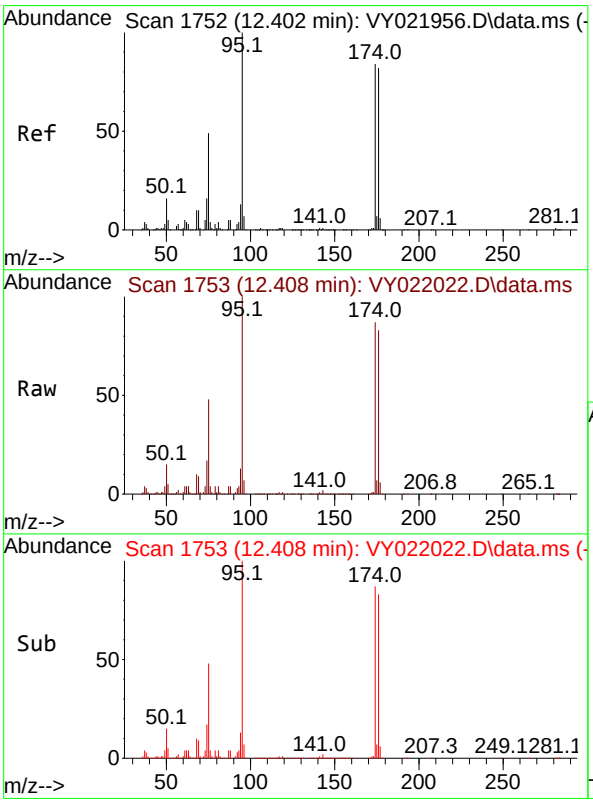
#50
Toluene-d8
Concen: 47.112 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBL01

Tgt Ion: 98 Resp: 678662

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

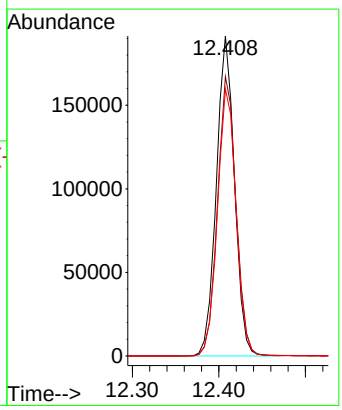


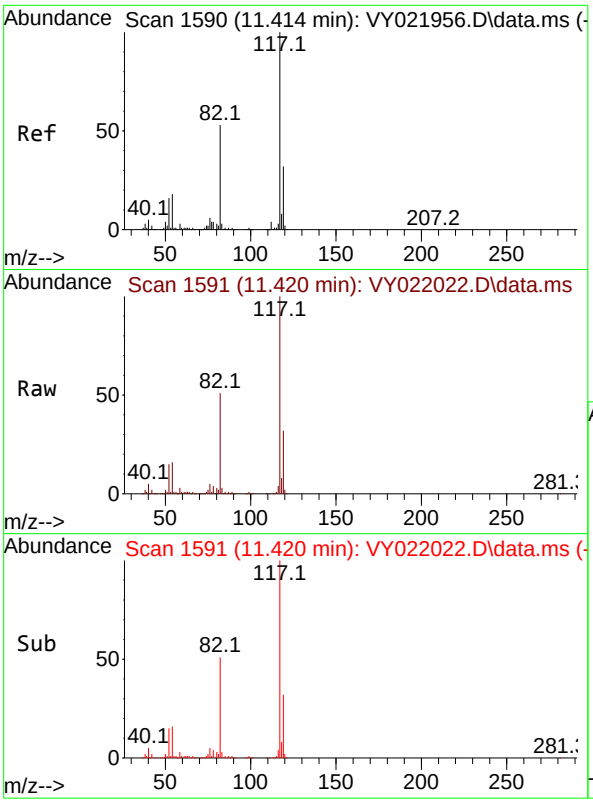


#62
4-Bromofluorobenzene
Concen: 57.361 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Tgt Ion: 95 Resp: 278168

Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	179.0
176	85.9	0.0	171.8



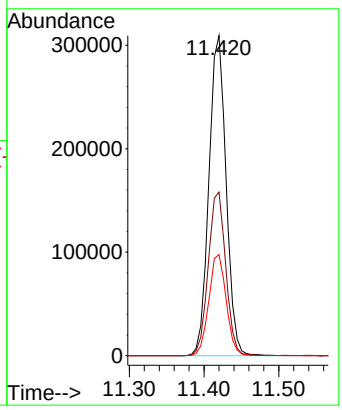


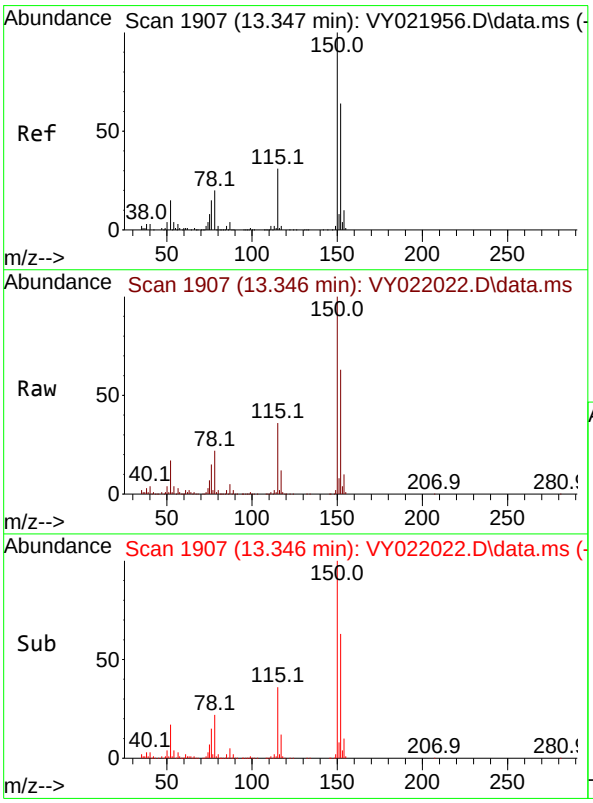
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBL01

Tgt Ion:117 Resp: 493590

Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.1	63.1
119	31.6	25.7	38.5

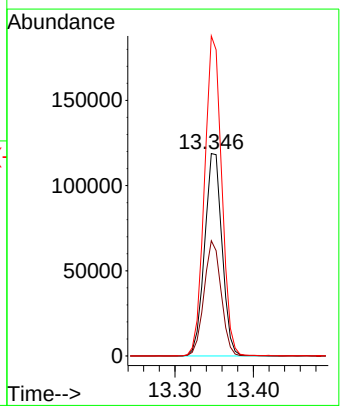




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022022.D
Acq: 28 Apr 2025 11:08

Tgt Ion:152 Resp: 183874

Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.0	84.0
150	155.5	0.0	345.6



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022047.D	1		04/29/25 10:00	VY042925

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
141-78-6	Ethyl Acetate	1.30	U	1.30	5.00	ug/Kg
108-21-4	Isopropyl Acetate	0.91	U	0.91	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
109-99-9	Tetrahydrofuran	4.70	U	4.70	25.0	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
75-65-0	Tert butyl alcohol	13.7	U	13.7	25.0	ug/Kg
60-29-7	Diethyl Ether	0.77	U	0.77	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
107-02-8	Acrolein	8.80	U	8.80	25.0	ug/Kg
107-13-1	Acrylonitrile	5.00	U	5.00	25.0	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
108-05-4	Vinyl Acetate	4.90	U	4.90	25.0	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
594-20-7	2,2-Dichloropropane	1.30	U	1.30	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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022047.D	1		04/29/25 10:00	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
563-58-6	1,1-Dichloropropene	0.87	U	0.87	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
74-95-3	Dibromomethane	0.89	U	0.89	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
80-62-6	Methyl methacrylate	0.74	U	0.74	5.00	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
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
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	3.80	U	3.80	25.0	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
630-20-6	1,1,1,2-Tetrachloroethane	0.77	U	0.77	5.00	ug/Kg
67-72-1	Hexachloroethane	1.10	U	1.10	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
1330-20-7	Total Xylenes	2.02	U	2.02	15.0	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

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022047.D	1		04/29/25 10:00	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	1.20	U	1.20	5.00	ug/Kg
108-86-1	Bromobenzene	1.20	U	1.20	5.00	ug/Kg
103-65-1	n-propylbenzene	0.73	U	0.73	5.00	ug/Kg
95-49-8	2-Chlorotoluene	0.68	U	0.68	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.82	U	0.82	5.00	ug/Kg
106-43-4	4-Chlorotoluene	1.20	U	1.20	5.00	ug/Kg
98-06-6	tert-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.64	U	0.64	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.66	U	0.66	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.62	U	0.62	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
104-51-8	n-Butylbenzene	1.50	U	1.50	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
87-68-3	Hexachlorobutadiene	1.90	U	1.90	5.00	ug/Kg
91-20-3	Naphthalene	2.60	U	2.60	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
628-63-7	N-amyl acetate	0.97	U	0.97	5.00	ug/Kg
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/Kg
107-05-1	Allyl chloride	0.78	U	0.78	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	1.10	U	1.10	5.00	ug/Kg
126-98-7	Methacrylonitrile	1.80	U	1.80	5.00	ug/Kg
108-20-3	Diisopropyl ether	0.55	U	0.55	5.00	ug/Kg
123-91-1	1,4-Dioxane	48.1	U	48.1	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	47.6		74 - 123	95%	SPK: 50

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBL01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022047.D	1		04/29/25 10:00	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	56.6		38 - 136	113%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	323000	7.707			
540-36-3	1,4-Difluorobenzene	602000	8.616			
3114-55-4	Chlorobenzene-d5	530000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	204000	13.347			

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\VY042925\
Data File : VY022047.D
Acq On : 29 Apr 2025 10:00
Operator : SY/MD
Sample : VY0429SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Quant Time: Apr 30 01:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	323132	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	602161	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	529726	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	203699	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150135	50.301	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.600%			
35) Dibromofluoromethane	7.634	113	198621	49.927	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.860%			
50) Toluene-d8	10.109	98	714245	47.623	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.240%			
62) 4-Bromofluorobenzene	12.408	95	285524	56.552	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 113.100%			

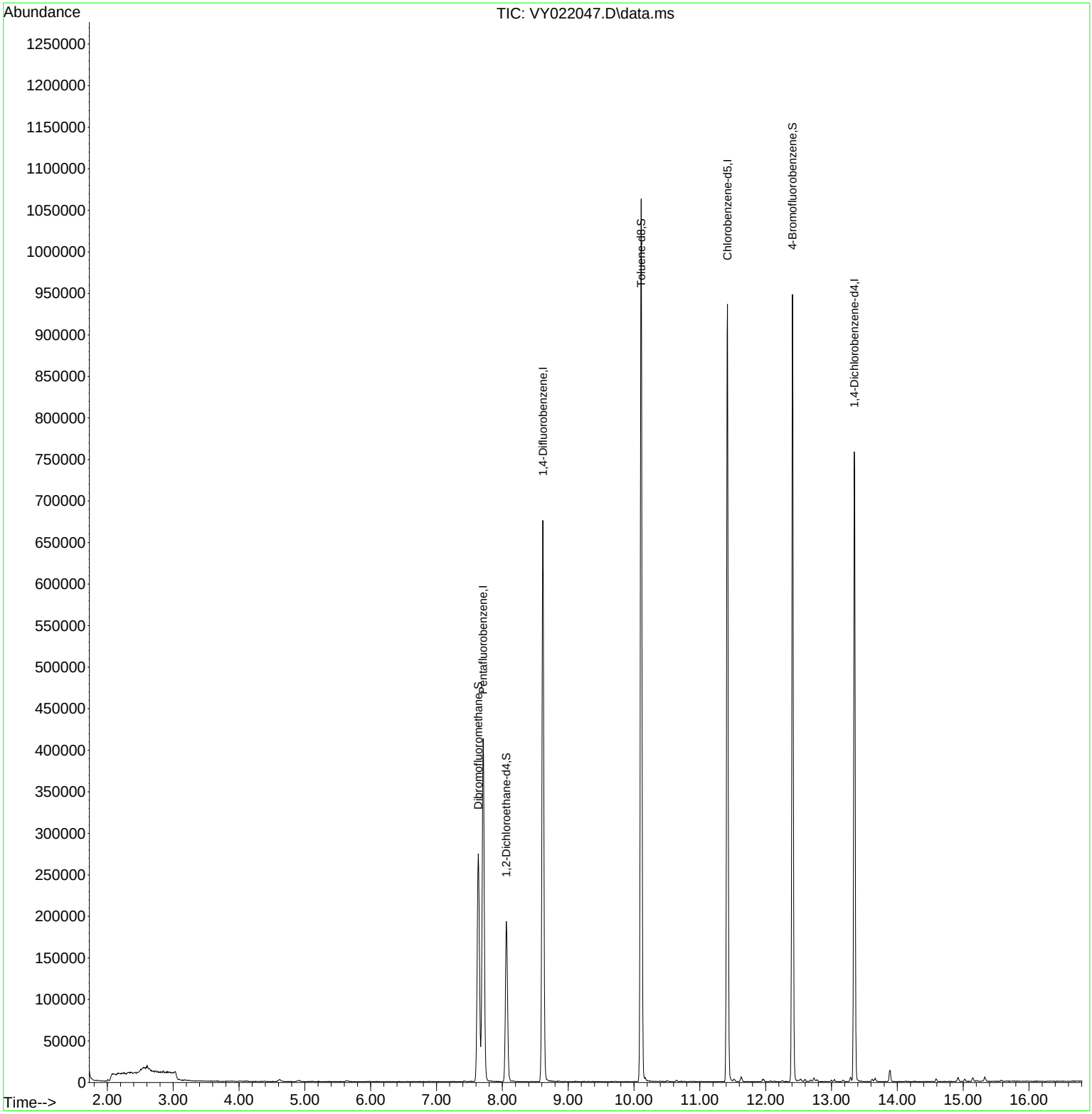
Target Compounds Qvalue

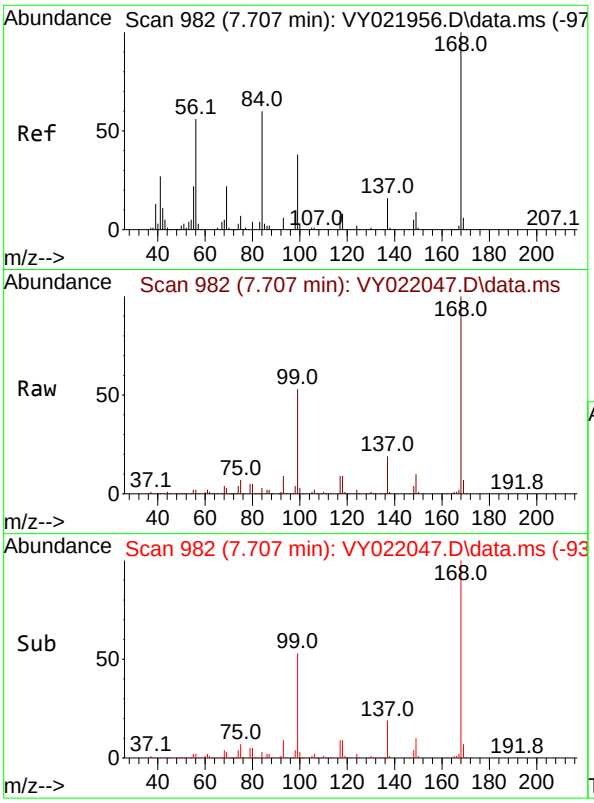
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022047.D
Acq On : 29 Apr 2025 10:00
Operator : SY/MD
Sample : VY0429SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Quant Time: Apr 30 01:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



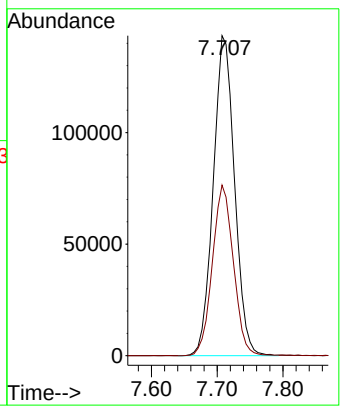


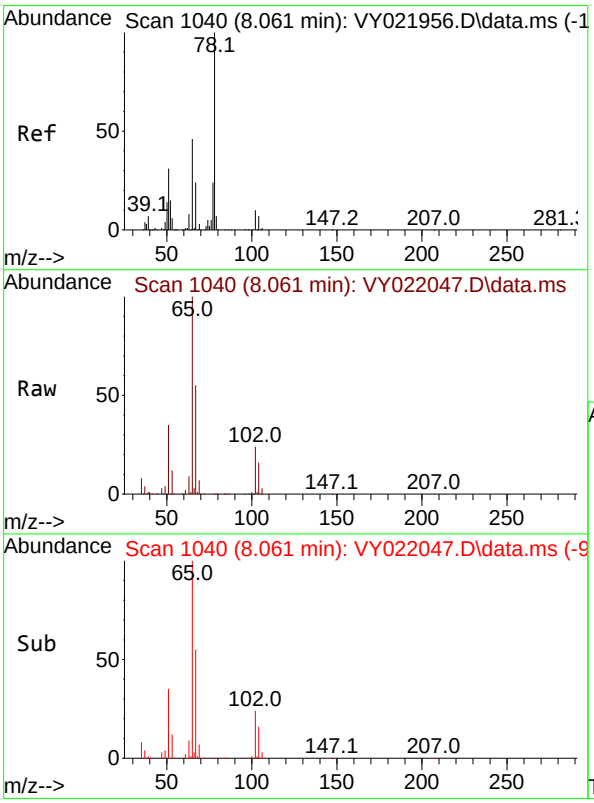
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Tgt Ion:168 Resp: 323132

Ion	Ratio	Lower	Upper
168	100		
99	53.3	43.1	64.7

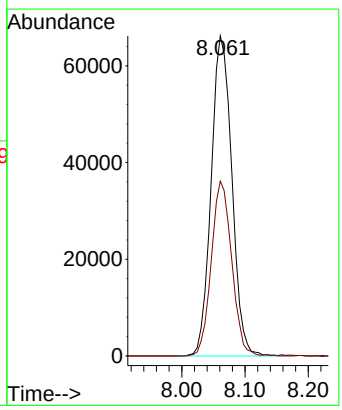


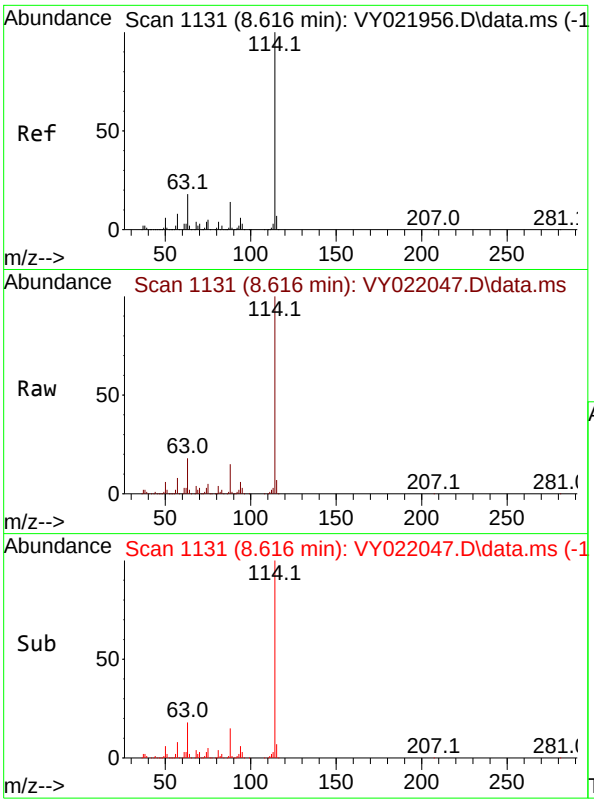


#33
1,2-Dichloroethane-d4
Concen: 50.301 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Tgt Ion: 65 Resp: 150135

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.8



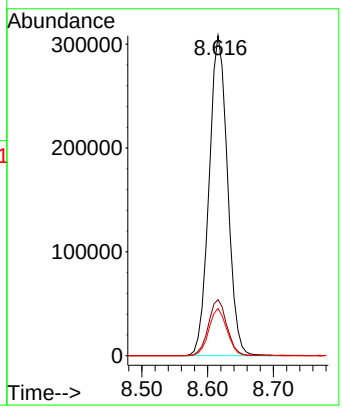


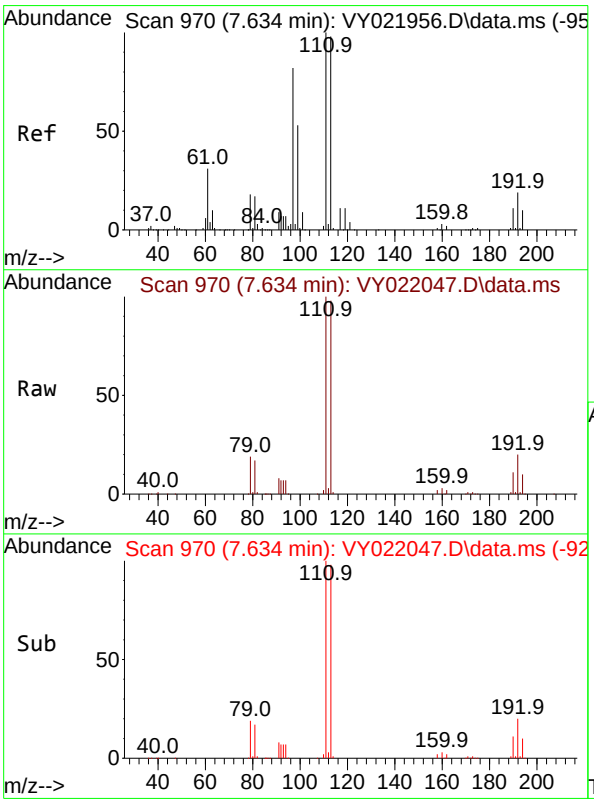
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Tgt Ion:114 Resp: 602161

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.4
88	14.8	0.0	28.2

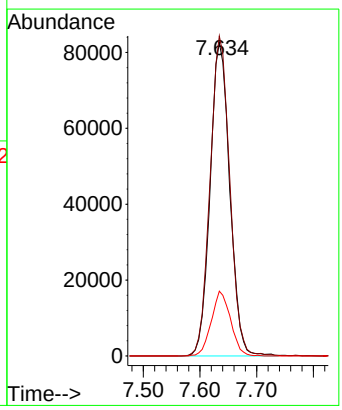


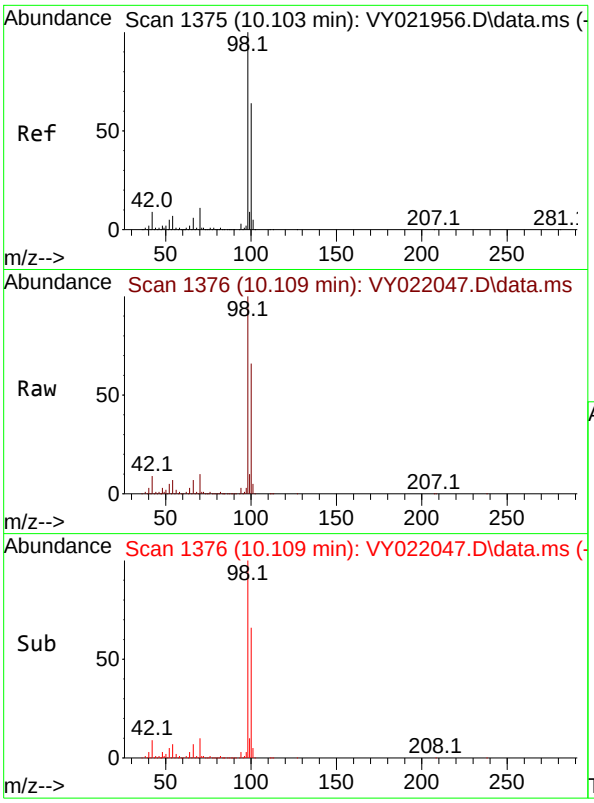


#35
Dibromofluoromethane
Concen: 49.927 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Tgt Ion:113 Resp: 198621

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	20.3	15.6	23.4



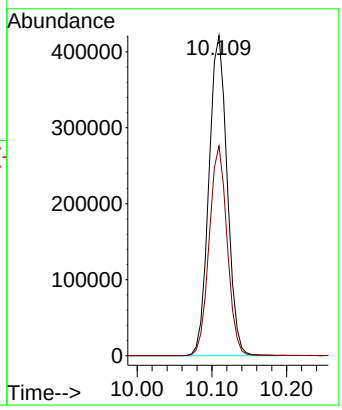


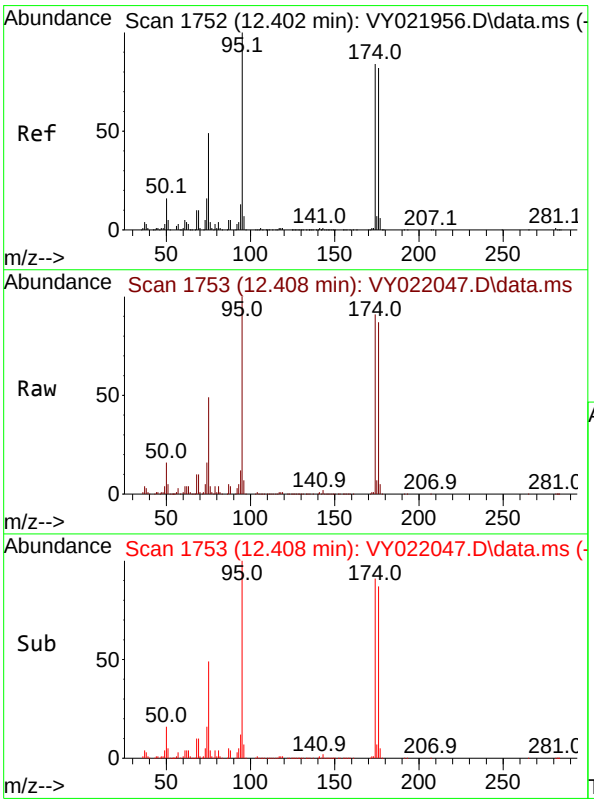
#50
Toluene-d8
Concen: 47.623 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Tgt Ion: 98 Resp: 714245

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4

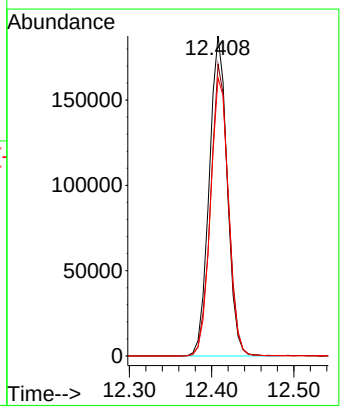


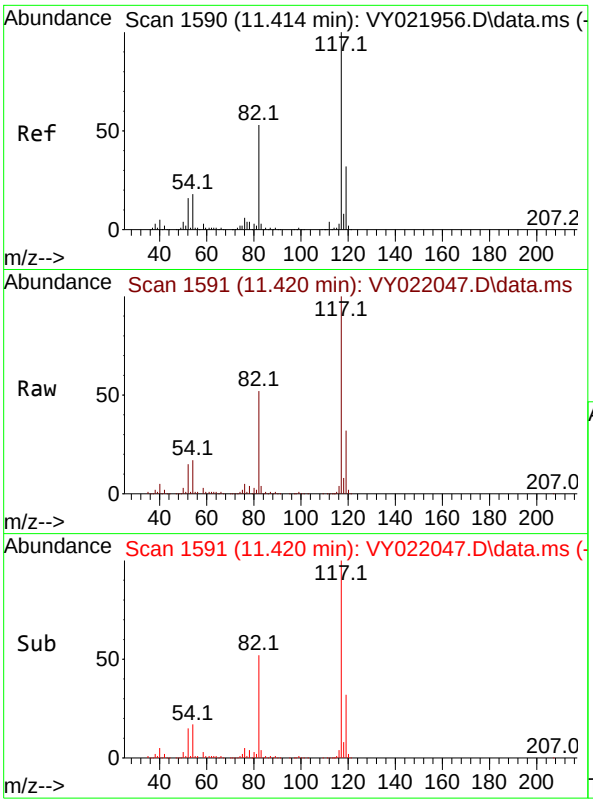


#62
4-Bromofluorobenzene
Concen: 56.552 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Tgt Ion: 95 Resp: 285524

Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	179.0
176	87.0	0.0	171.8



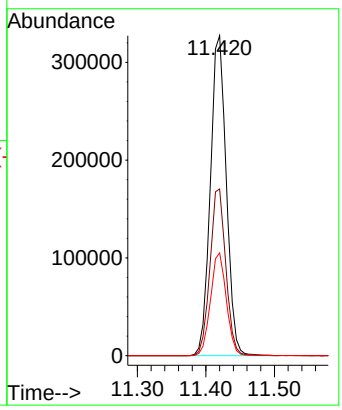


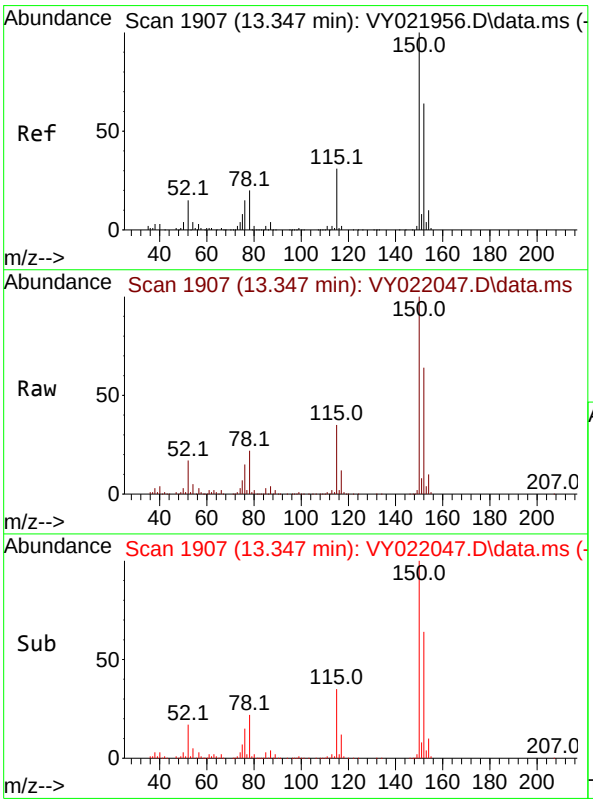
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Tgt Ion:117 Resp: 529726

Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.1	63.1
119	32.1	25.7	38.5

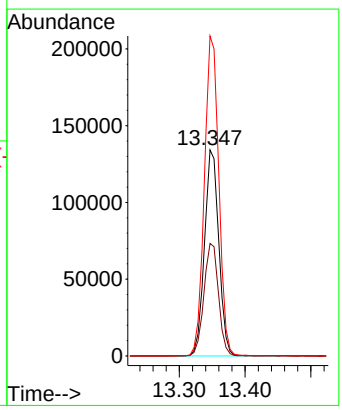




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Tgt Ion:152 Resp: 203699

Ion	Ratio	Lower	Upper
152	100		
115	55.5	28.0	84.0
150	156.0	0.0	345.6



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022023.D	1		04/28/25 11:40	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	21.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.79	5.00	ug/Kg
141-78-6	Ethyl Acetate	18.8		1.30	5.00	ug/Kg
108-21-4	Isopropyl Acetate	18.6		0.91	5.00	ug/Kg
74-83-9	Bromomethane	21.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.3		1.30	5.00	ug/Kg
109-99-9	Tetrahydrofuran	91.2		4.70	25.0	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	92.7		13.7	25.0	ug/Kg
60-29-7	Diethyl Ether	18.9		0.77	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.3		1.00	5.00	ug/Kg
107-02-8	Acrolein	78.2		8.80	25.0	ug/Kg
107-13-1	Acrylonitrile	94.1		5.00	25.0	ug/Kg
67-64-1	Acetone	88.8		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.2		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.8		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
108-05-4	Vinyl Acetate	94.9		4.90	25.0	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.3		0.79	5.00	ug/Kg
78-93-3	2-Butanone	89.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.9		0.97	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	21.2		1.30	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022023.D	1		04/28/25 11:40	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
71-55-6	1,1,1-Trichloroethane	20.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.1		0.91	5.00	ug/Kg
563-58-6	1,1-Dichloropropene	20.0		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
74-95-3	Dibromomethane	20.2		0.89	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.0		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.8		3.60	25.0	ug/Kg
80-62-6	Methyl methacrylate	18.4		0.74	5.00	ug/Kg
108-88-3	Toluene	21.1		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.7		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	20.1		0.68	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	90.9		3.80	25.0	ug/Kg
591-78-6	2-Hexanone	89.9		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.5		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	20.6		0.77	5.00	ug/Kg
67-72-1	Hexachloroethane	19.9		1.10	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.2		1.20	10.0	ug/Kg
1330-20-7	Total Xylenes	61.4		2.02	15.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.2		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		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:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022023.D	1		04/28/25 11:40	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.20	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	18.4		1.20	5.00	ug/Kg
108-86-1	Bromobenzene	20.1		1.20	5.00	ug/Kg
103-65-1	n-propylbenzene	20.0		0.73	5.00	ug/Kg
95-49-8	2-Chlorotoluene	20.1		0.68	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20.0		0.82	5.00	ug/Kg
106-43-4	4-Chlorotoluene	20.6		1.20	5.00	ug/Kg
98-06-6	tert-Butylbenzene	19.5		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20.0		0.64	5.00	ug/Kg
135-98-8	sec-Butylbenzene	19.7		0.66	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	19.8		0.62	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	18.9		1.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.9		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	16.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.5		3.00	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	19.8		1.90	5.00	ug/Kg
91-20-3	Naphthalene	16.3		2.60	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.4		3.20	5.00	ug/Kg
628-63-7	N-amyl acetate	17.0		0.97	5.00	ug/Kg
74-88-4	Methyl Iodide	19.7		0.91	5.00	ug/Kg
107-05-1	Allyl chloride	19.7		0.78	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	18.4		1.10	5.00	ug/Kg
126-98-7	Methacrylonitrile	17.9		1.80	5.00	ug/Kg
108-20-3	Diisopropyl ether	20.5		0.55	5.00	ug/Kg
123-91-1	1,4-Dioxane	380		48.1	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.9		74 - 123	104%	SPK: 50

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022023.D	1		04/28/25 11:40	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	50.6		38 - 136	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.707			
540-36-3	1,4-Difluorobenzene	452000	8.616			
3114-55-4	Chlorobenzene-d5	415000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	223000	13.347			

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\VY042825\
Data File : VY022023.D
Acq On : 28 Apr 2025 11:40
Operator : SY/MD
Sample : VY0428SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 03:52:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	288803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	451635	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	414911	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	223411	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	132035	49.495	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.000%			
35) Dibromofluoromethane	7.634	113	151421	50.749	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.500%			
50) Toluene-d8	10.109	98	583457	51.869	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.740%			
62) 4-Bromofluorobenzene	12.408	95	191595	50.596	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	48288	19.622	ug/l	99
3) Chloromethane	2.068	50	75116	21.437	ug/l	98
4) Vinyl Chloride	2.202	62	89232	20.723	ug/l	99
5) Bromomethane	2.592	94	81308	21.917	ug/l	97
6) Chloroethane	2.733	64	62580	21.340	ug/l	96
7) Trichlorofluoromethane	3.056	101	117839	20.753	ug/l	97
8) Diethyl Ether	3.452	74	27886	18.869	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	62329	20.236	ug/l	100
10) Methyl Iodide	4.001	142	70226	19.692	ug/l	98
11) Tert butyl alcohol	4.879	59	13583	92.748	ug/l	98
12) 1,1-Dichloroethene	3.787	96	58220	20.279	ug/l	98
13) Acrolein	3.659	56	20550	78.181	ug/l	99
14) Allyl chloride	4.385	41	65780	19.677	ug/l	99
15) Acrylonitrile	5.068	53	50909	94.096	ug/l	98
16) Acetone	3.879	43	35815	88.799	ug/l	97
17) Carbon Disulfide	4.104	76	185314	20.244	ug/l	99
18) Methyl Acetate	4.385	43	24470	19.637	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	120777	18.795	ug/l	98
20) Methylene Chloride	4.616	84	67212	19.926	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	65512	20.375	ug/l	97
22) Diisopropyl ether	6.019	45	152261	20.467	ug/l	100
23) Vinyl Acetate	5.964	43	380442	94.888	ug/l	98
24) 1,1-Dichloroethane	5.915	63	105916	20.539	ug/l	97
25) 2-Butanone	6.903	43	54333	89.353	ug/l	100
26) 2,2-Dichloropropane	6.884	77	95622	21.157	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	71531	19.896	ug/l	97
28) Bromochloromethane	7.250	49	40600	20.270	ug/l	97
29) Tetrahydrofuran	7.262	42	36015	91.193	ug/l	98
30) Chloroform	7.421	83	120103	20.997	ug/l	100
31) Cyclohexane	7.701	56	85140	19.307	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	106620	20.603	ug/l	99
36) 1,1-Dichloropropene	7.835	75	79998	19.960	ug/l	99
37) Ethyl Acetate	6.982	43	27054	18.794	ug/l	97
38) Carbon Tetrachloride	7.817	117	100038	20.888	ug/l	99
39) Methylcyclohexane	9.110	83	96523	19.137	ug/l	99
40) Benzene	8.079	78	263141	21.003	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022023.D
Acq On : 28 Apr 2025 11:40
Operator : SY/MD
Sample : VY0428SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 03:52:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.213	41	14076	17.888 ug/l	96
42) 1,2-Dichloroethane	8.158	62	62844	20.260 ug/l	99
43) Isopropyl Acetate	8.195	43	51297	18.556 ug/l	98
44) Trichloroethene	8.866	130	72088	20.773 ug/l	98
45) 1,2-Dichloropropane	9.140	63	56336	20.333 ug/l	97
46) Dibromomethane	9.231	93	35005	20.183 ug/l	99
47) Bromodichloromethane	9.420	83	91024	21.008 ug/l	97
48) Methyl methacrylate	9.219	41	23485	18.377 ug/l	98
49) 1,4-Dioxane	9.238	88	6933	375.040 ug/l #	95
51) 4-Methyl-2-Pentanone	10.000	43	134511	92.823 ug/l	98
52) Toluene	10.170	92	171313	21.124 ug/l	99
53) t-1,3-Dichloropropene	10.396	75	73313	19.727 ug/l	92
54) cis-1,3-Dichloropropene	9.859	75	89748	20.315 ug/l	95
55) 1,1,2-Trichloroethane	10.573	97	47358	20.441 ug/l	97
56) Ethyl methacrylate	10.439	69	47130	17.789 ug/l	98
57) 1,3-Dichloropropane	10.719	76	74512	20.062 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	117783	90.927 ug/l	100
59) 2-Hexanone	10.762	43	85959	89.933 ug/l	97
60) Dibromochloromethane	10.914	129	65617	20.457 ug/l	98
61) 1,2-Dibromoethane	11.018	107	43475	19.877 ug/l	100
64) Tetrachloroethene	10.646	164	82426	21.059 ug/l	98
65) Chlorobenzene	11.438	112	190217	20.501 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	67377	20.626 ug/l	99
67) Ethyl Benzene	11.518	91	304126	20.037 ug/l	99
68) m/p-Xylenes	11.627	106	248981	41.224 ug/l	99
69) o-Xylene	11.957	106	112465	20.203 ug/l	98
70) Styrene	11.969	104	188696	20.189 ug/l	100
71) Bromoform	12.133	173	38669	20.361 ug/l #	98
73) Isopropylbenzene	12.255	105	290455	19.459 ug/l	100
74) N-amyl acetate	12.072	43	43553	16.983 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	48206	19.156 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	35131m	18.358 ug/l	
77) Bromobenzene	12.536	156	75728	20.078 ug/l	99
78) n-propylbenzene	12.597	91	354794	19.960 ug/l	100
79) 2-Chlorotoluene	12.682	91	207565	20.079 ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	245588	19.969 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	14640	18.423 ug/l	97
82) 4-Chlorotoluene	12.780	91	221042	20.569 ug/l	100
83) tert-Butylbenzene	12.999	119	215151	19.506 ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	245925	19.992 ug/l	99
85) sec-Butylbenzene	13.176	105	318603	19.740 ug/l	99
86) p-Isopropyltoluene	13.292	119	270778	19.757 ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	154240	20.135 ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	151928	20.025 ug/l	99
89) n-Butylbenzene	13.615	91	231179	18.871 ug/l	99
90) Hexachloroethane	13.877	117	60020	19.932 ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	133112	19.923 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6676	16.675 ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	69955	18.477 ug/l	99
94) Hexachlorobutadiene	15.023	225	46027	19.759 ug/l	96
95) Naphthalene	15.145	128	102709	16.331 ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	60052	18.375 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022023.D
Acq On : 28 Apr 2025 11:40
Operator : SY/MD
Sample : VY0428SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 03:52:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

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

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

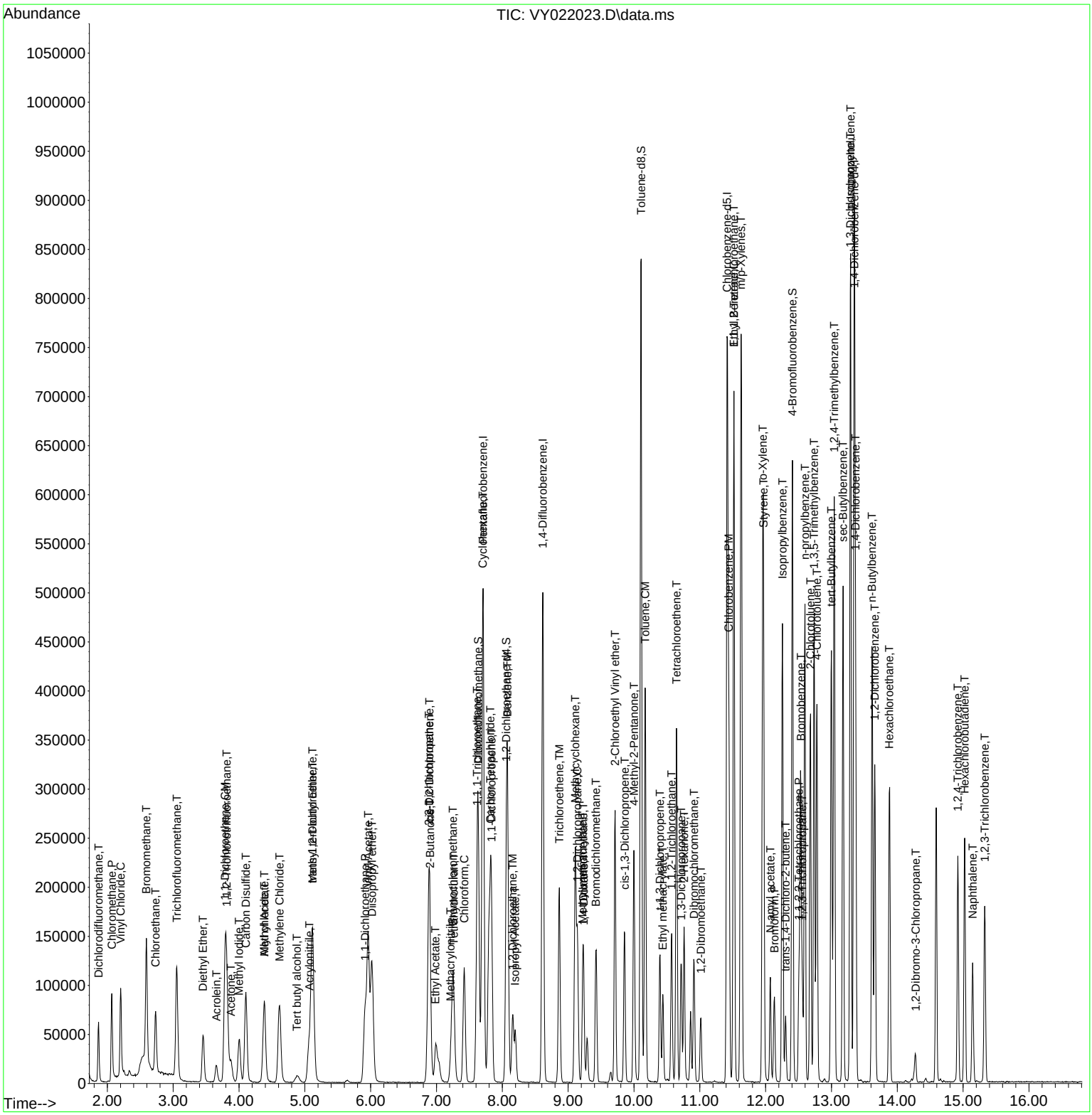
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022023.D
Acq On : 28 Apr 2025 11:40
Operator : SY/MD
Sample : VY0428SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

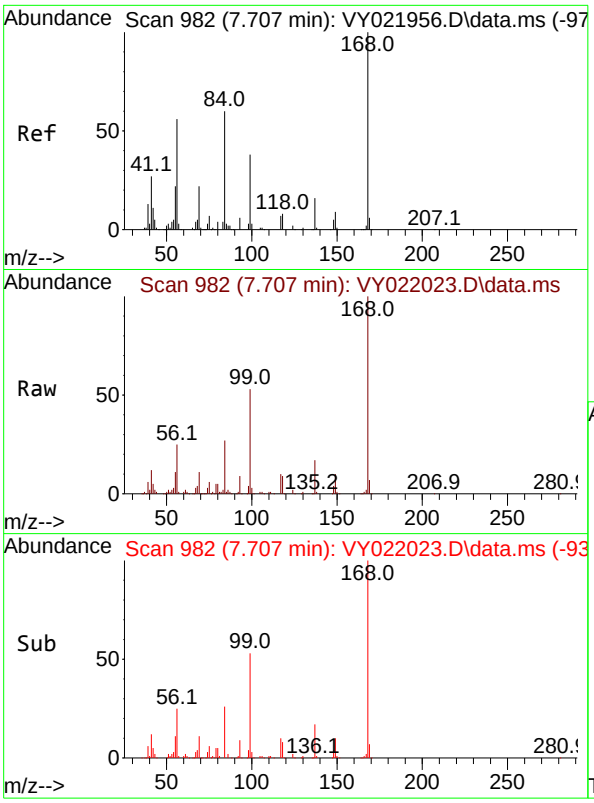
Quant Time: Apr 29 03:52:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

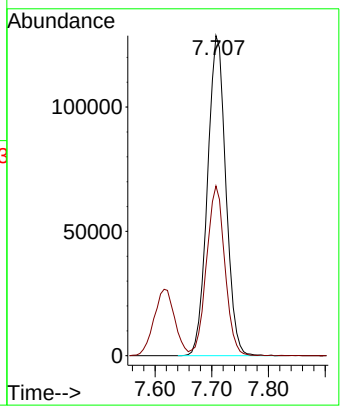




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:168 Resp: 28880

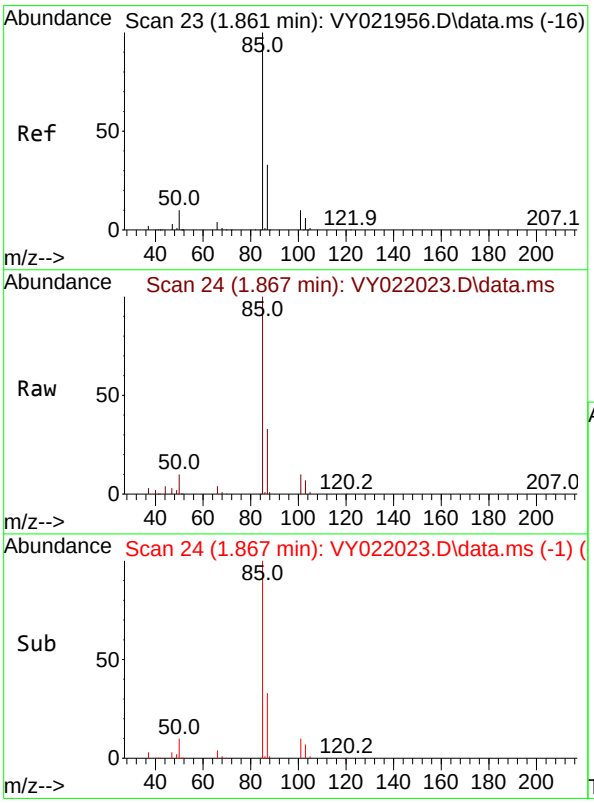
Ion	Ratio	Lower	Upper
168	100		
99	53.0	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
APPROVED

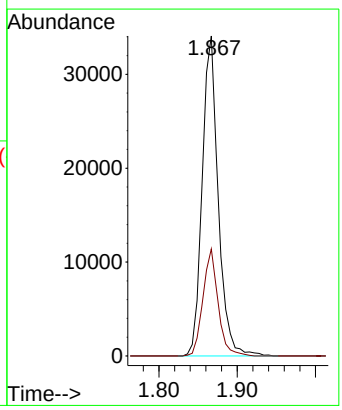
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

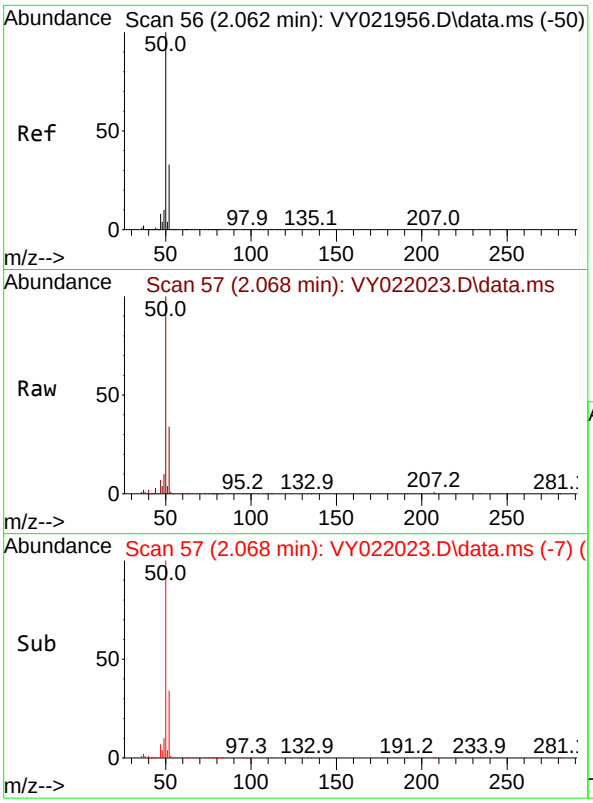


#2
Dichlorodifluoromethane
Concen: 19.622 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 85 Resp: 48288

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.6	49.7

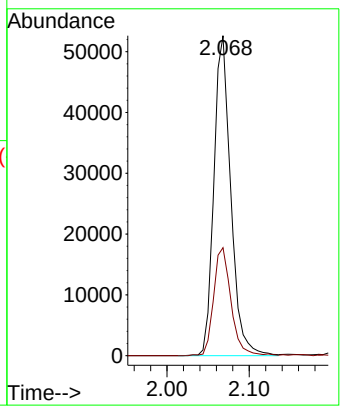




#3
Chloromethane
Concen: 21.437 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 50 Resp: 7511

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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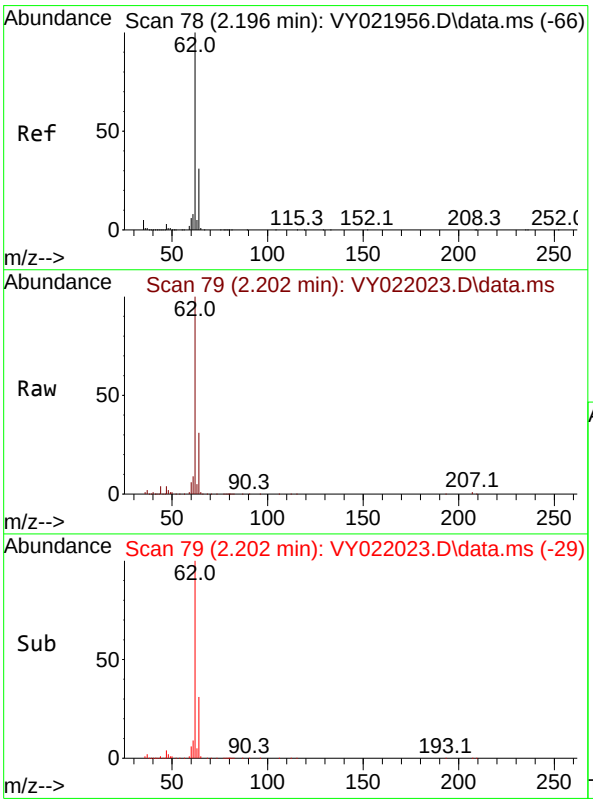
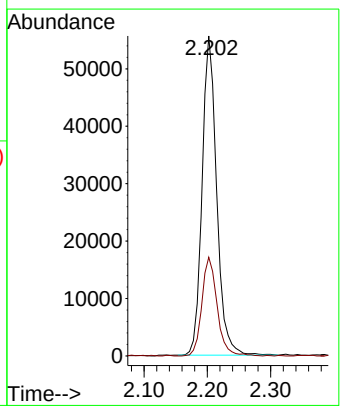
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

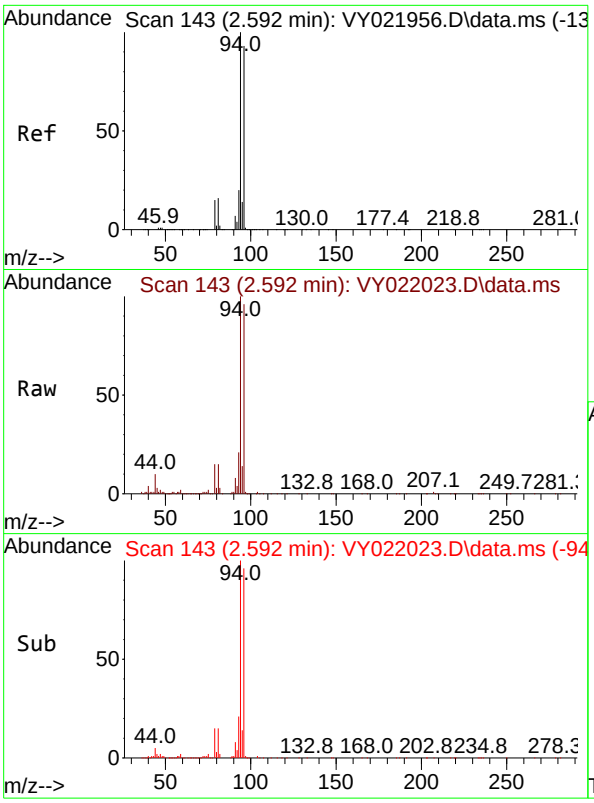


#4
Vinyl Chloride
Concen: 20.723 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 62 Resp: 89232

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.1	37.7

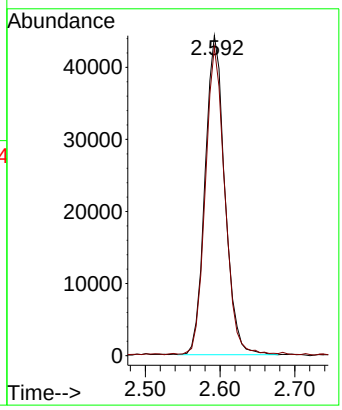




#5
Bromomethane
Concen: 21.917 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 94 Resp: 8130

Ion	Ratio	Lower	Upper
94	100		
96	96.2	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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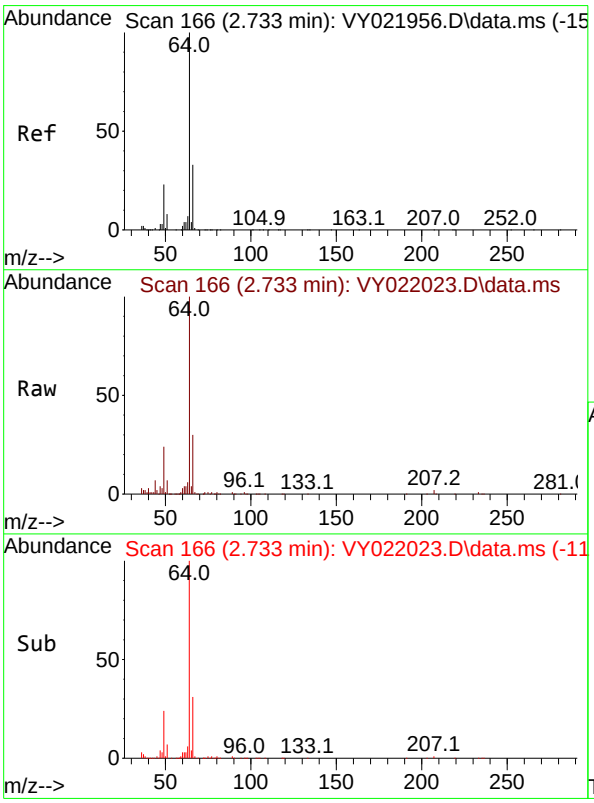
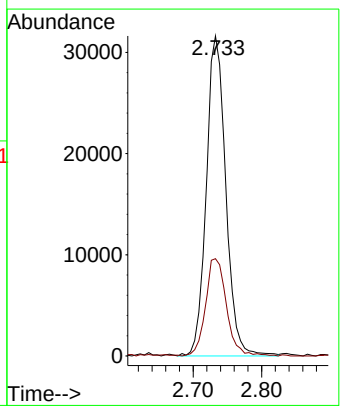
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

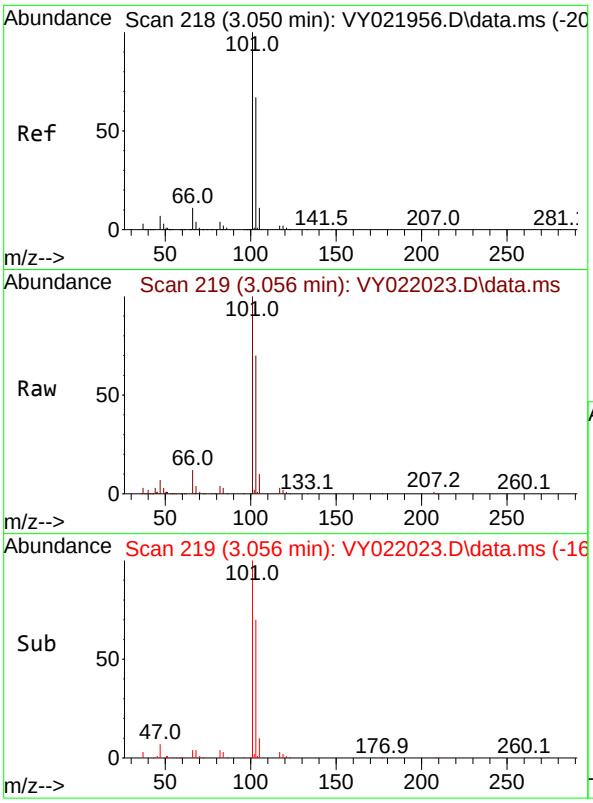


#6
Chloroethane
Concen: 21.340 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 64 Resp: 62580

Ion	Ratio	Lower	Upper
64	100		
66	30.4	26.2	39.4

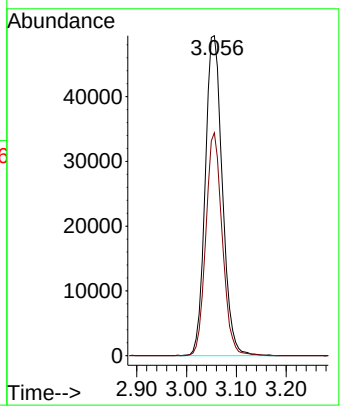




#7
Trichlorofluoromethane
Concen: 20.753 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:101 Resp: 11783

Ion	Ratio	Lower	Upper
101	100		
103	69.6	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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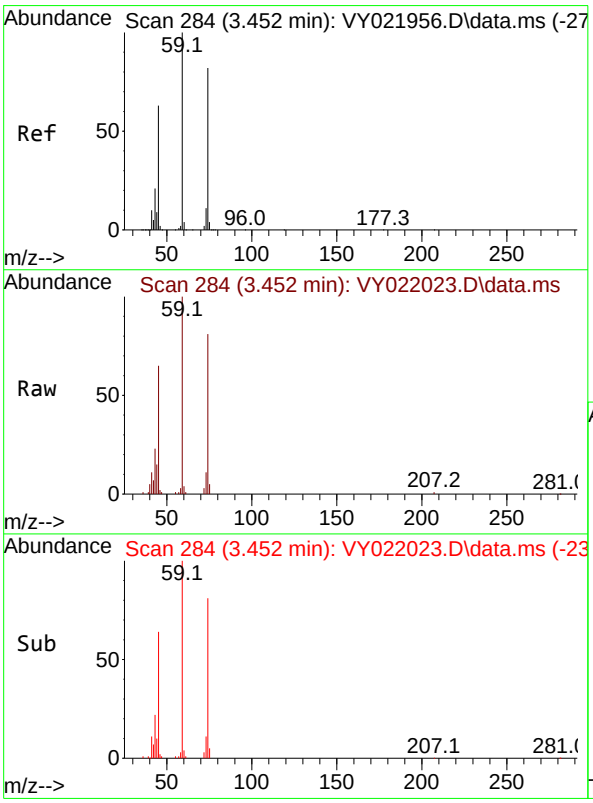
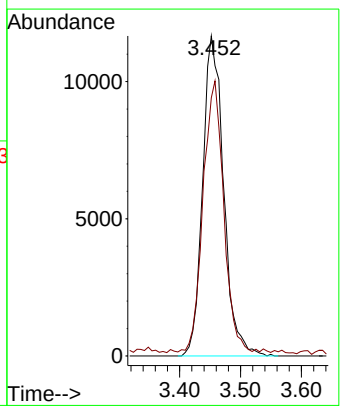
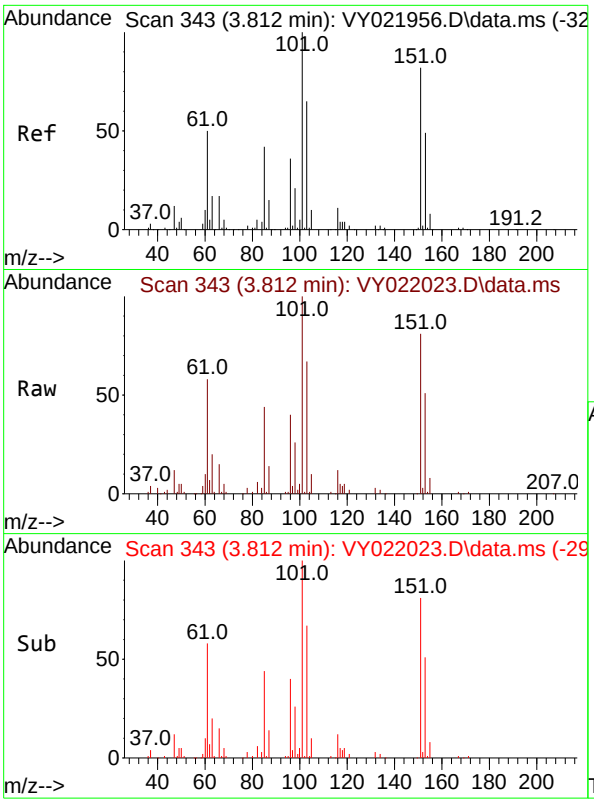


#8
Diethyl Ether
Concen: 18.869 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 74 Resp: 27886

Ion	Ratio	Lower	Upper
74	100		
45	82.9	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.236 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:101 Resp: 6232

Ion	Ratio	Lower	Upper
101	100		
85	43.0	34.6	51.8
151	80.1	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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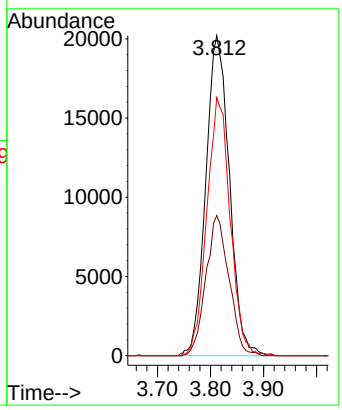
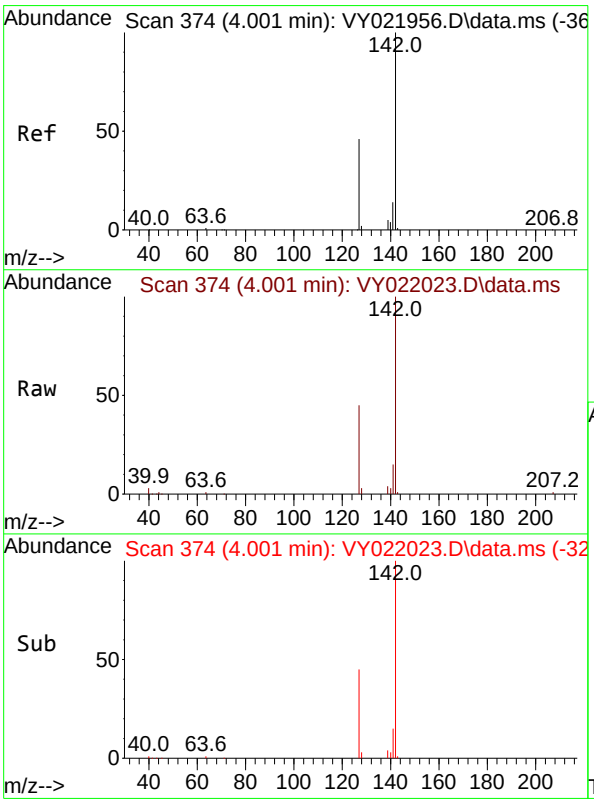
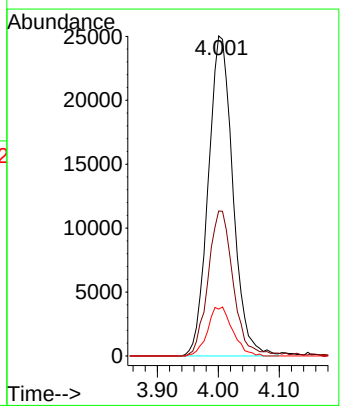


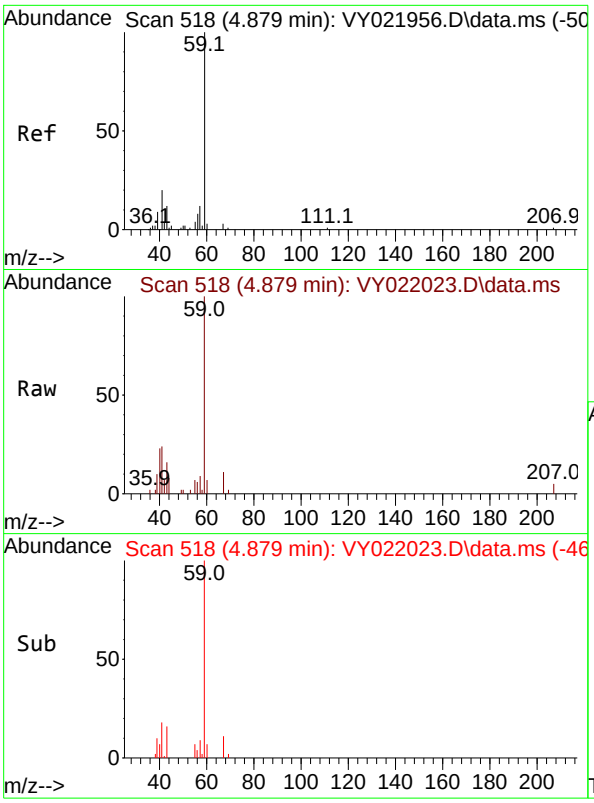


#10
Methyl Iodide
Concen: 19.692 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:142 Resp: 70226

Ion	Ratio	Lower	Upper
142	100		
127	46.5	36.2	54.2
141	15.5	11.7	17.5





#11
Tert butyl alcohol
Concen: 92.748 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 59 Resp: 1358

Ion	Ratio	Lower	Upper
59	100		
57	10.7	9.3	13.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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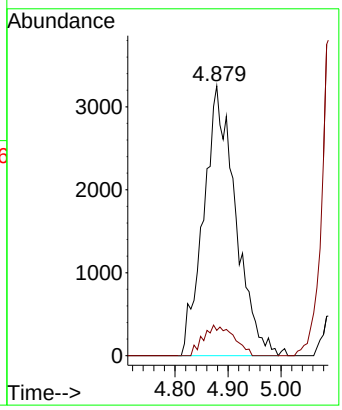
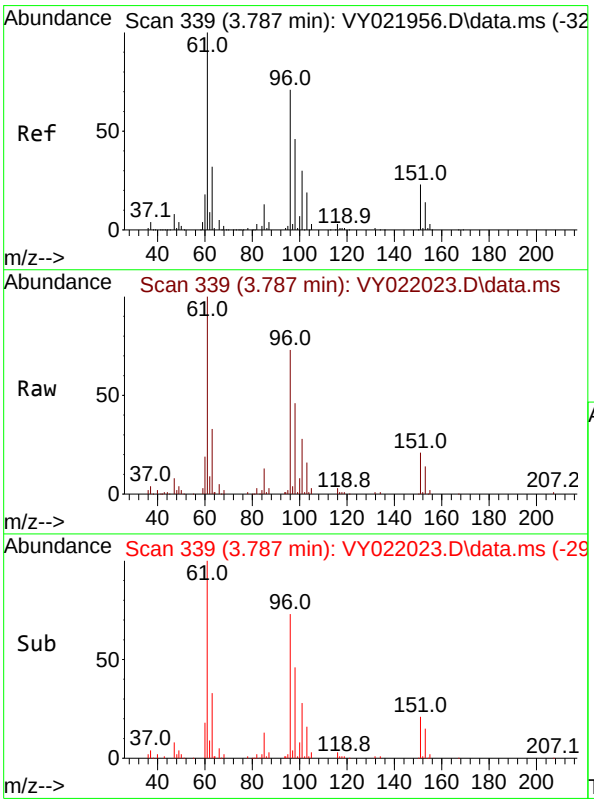
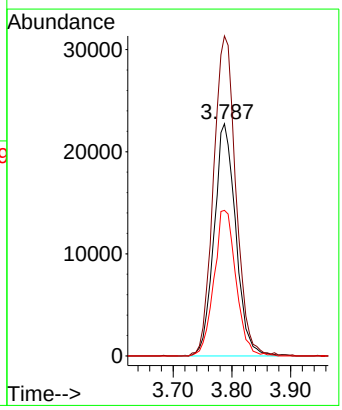


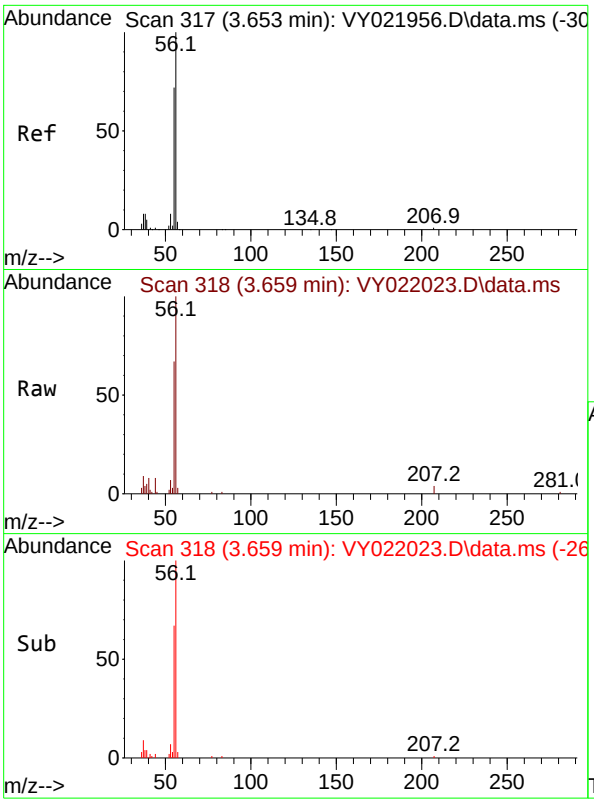


#12
1,1-Dichloroethene
Concen: 20.279 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 96 Resp: 58220

Ion	Ratio	Lower	Upper
96	100		
61	137.9	113.0	169.4
98	62.8	51.4	77.2

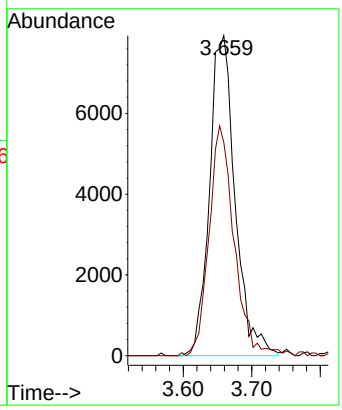




#13
Acrolein
Concen: 78.181 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 56 Resp: 2055

Ion	Ratio	Lower	Upper
56	100		
55	70.5	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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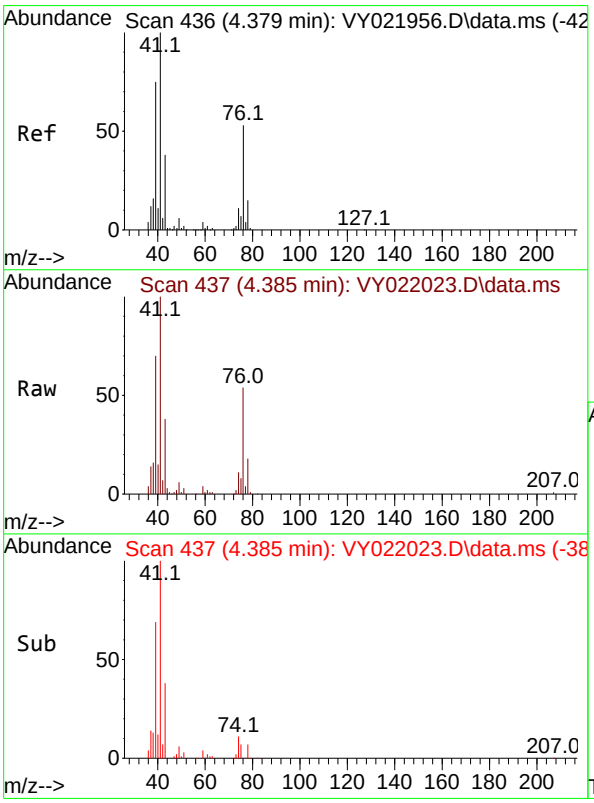
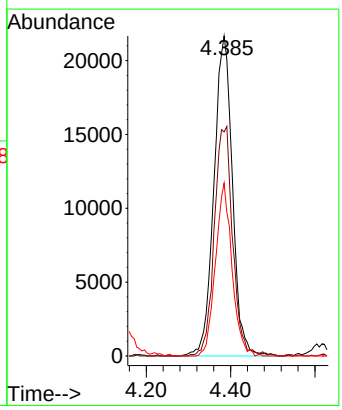
Supervised By :Mahesh Dadoda 04/29/2025

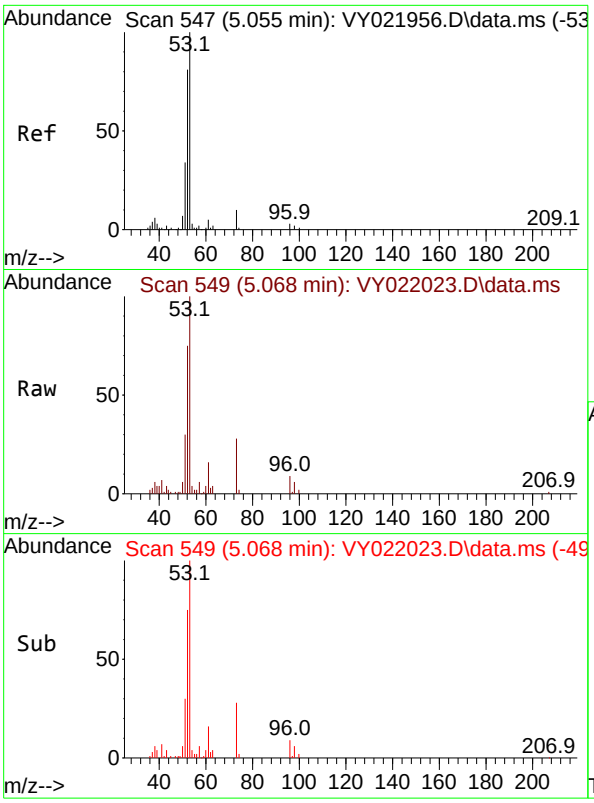


#14
Allyl chloride
Concen: 19.677 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 41 Resp: 65780

Ion	Ratio	Lower	Upper
41	100		
39	71.3	57.2	85.8
76	48.2	39.7	59.5





#15
Acrylonitrile
Concen: 94.096 ug/l
RT: 5.068 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 53 Resp: 5090

Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.0	97.6
51	36.2	28.9	43.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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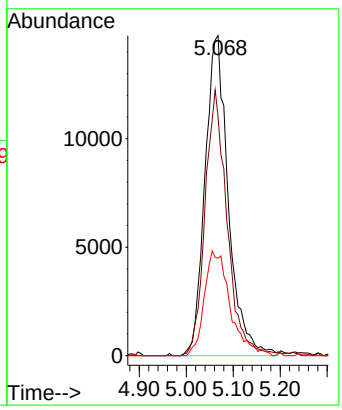
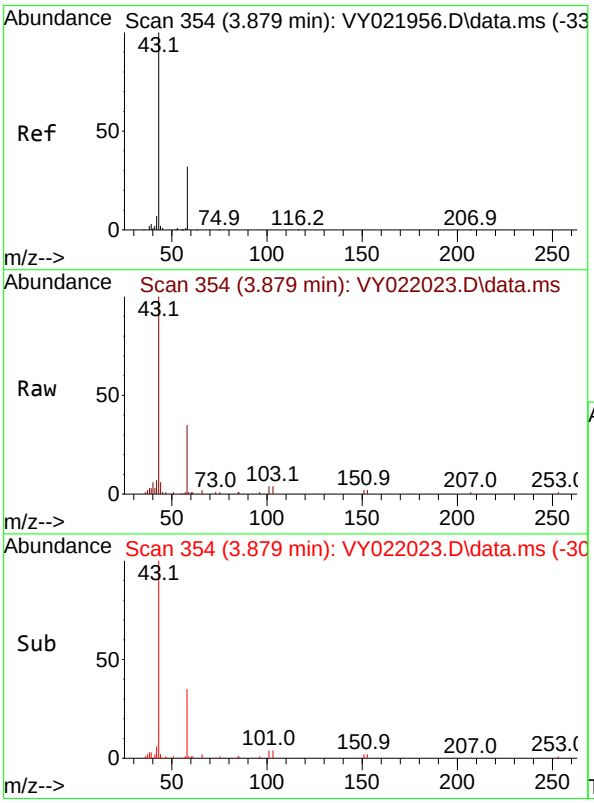
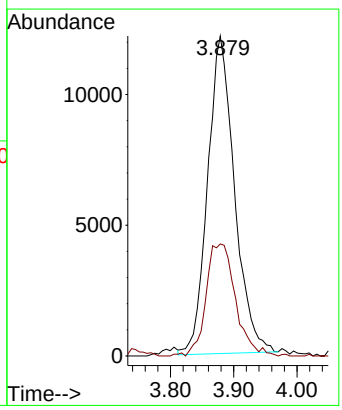


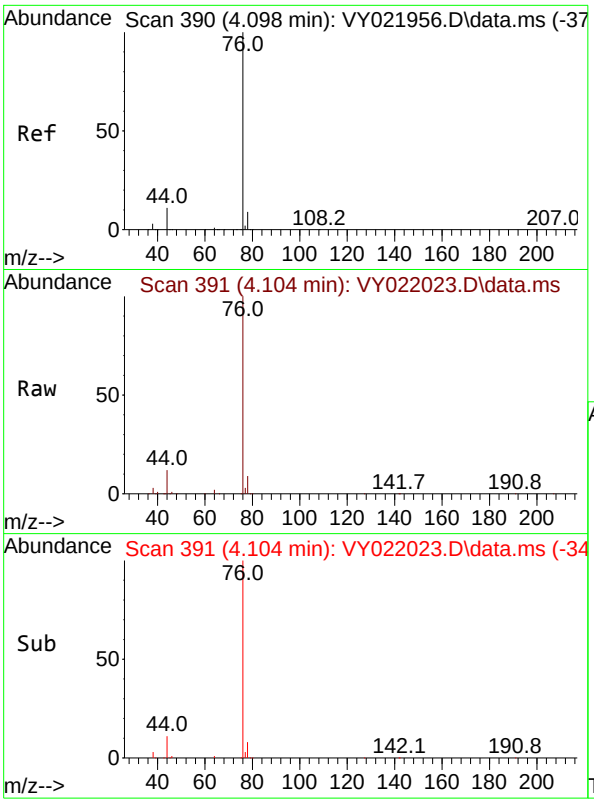


#16
Acetone
Concen: 88.799 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 35815

Ion	Ratio	Lower	Upper
43	100		
58	35.5	27.0	40.4

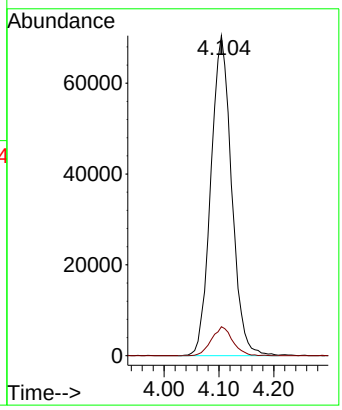




#17
Carbon Disulfide
Concen: 20.244 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 76 Resp: 18531

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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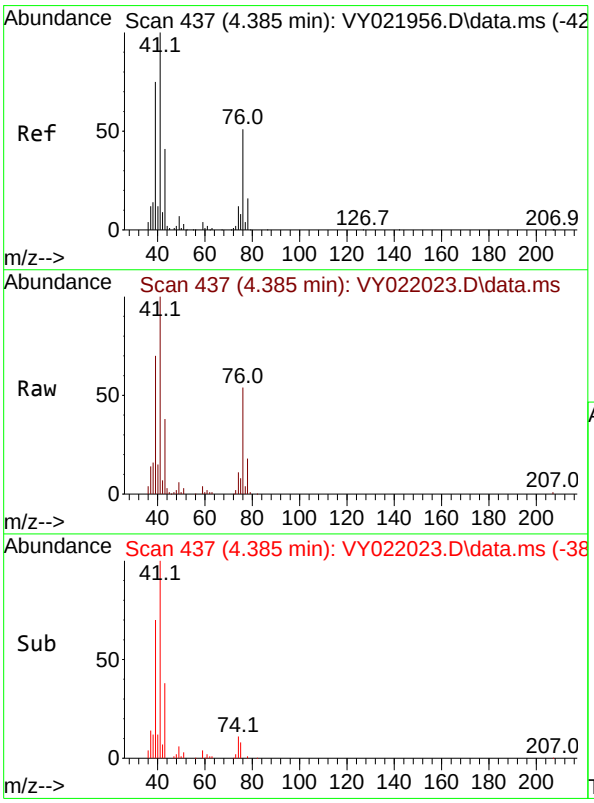
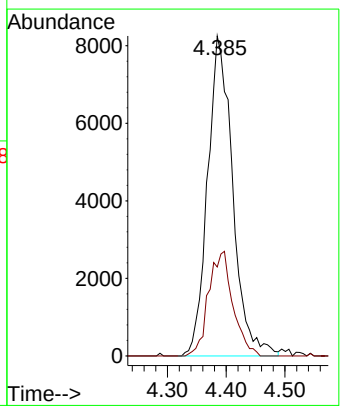
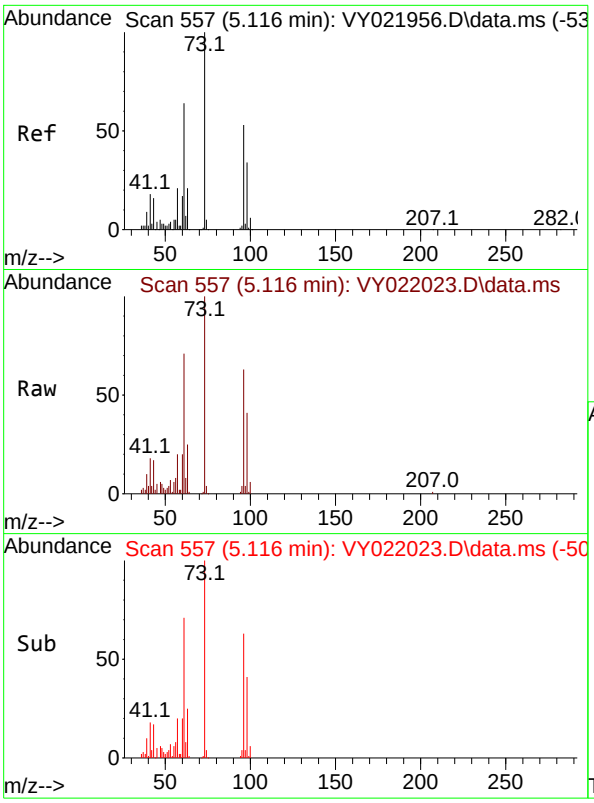


#18
Methyl Acetate
Concen: 19.637 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 24470

Ion	Ratio	Lower	Upper
43	100		
74	31.7	24.2	36.4

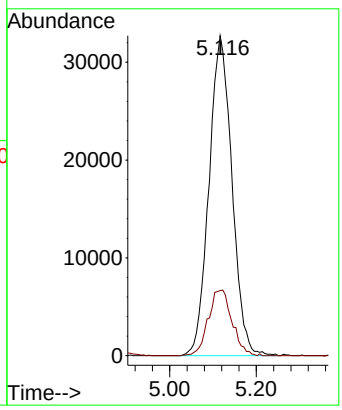




#19
Methyl tert-butyl Ether
Concen: 18.795 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 73 Resp: 12077

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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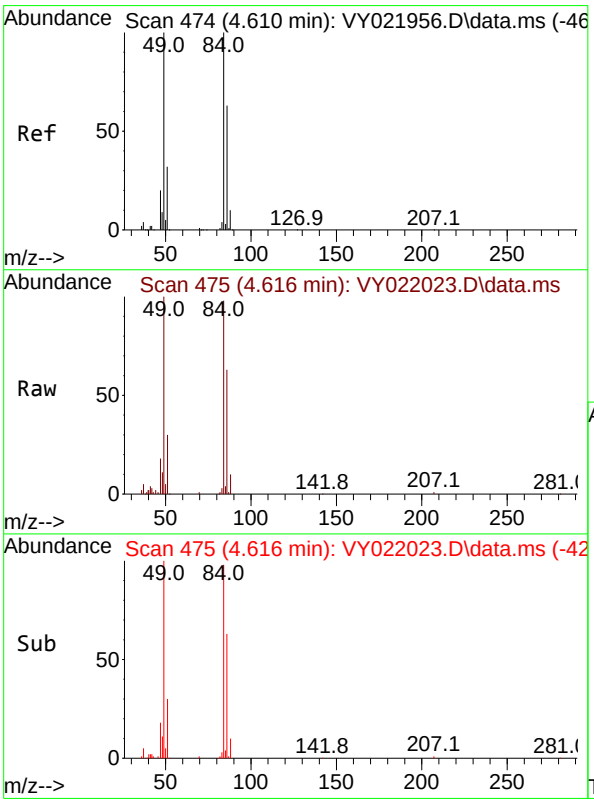
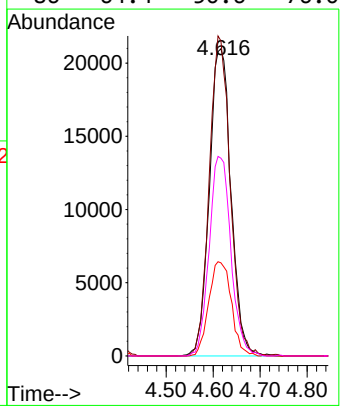
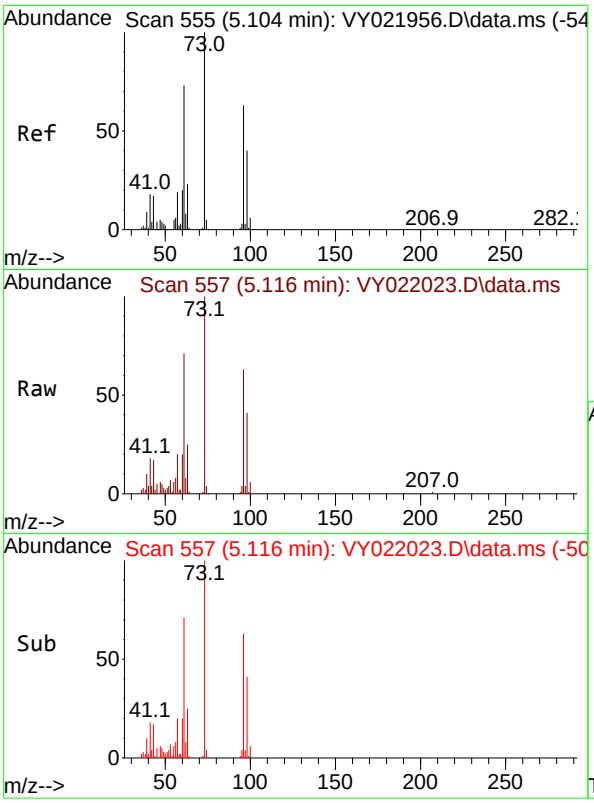


#20
Methylene Chloride
Concen: 19.926 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 84 Resp: 67212

Ion	Ratio	Lower	Upper
84	100		
49	102.6	79.9	119.9
51	30.3	25.4	38.0
86	64.4	50.6	76.0

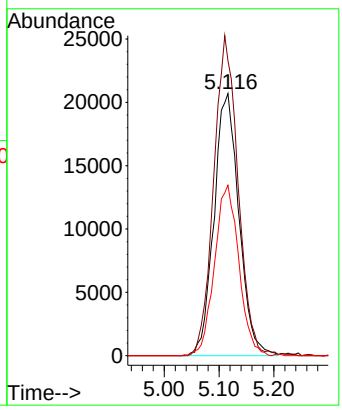




#21
trans-1,2-Dichloroethene
Concen: 20.375 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 96 Resp: 6551

Ion	Ratio	Lower	Upper
96	100		
61	112.6	92.6	138.8
98	65.0	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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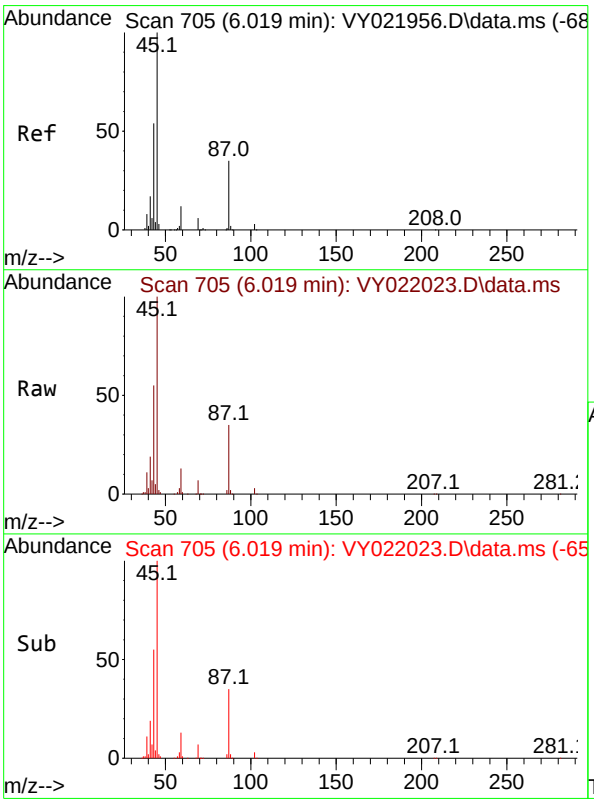
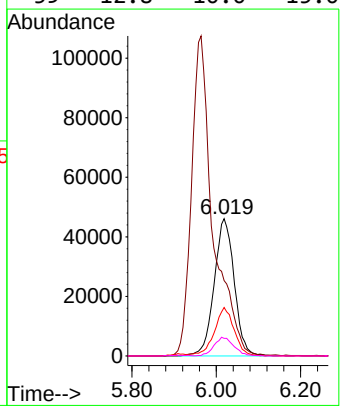
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

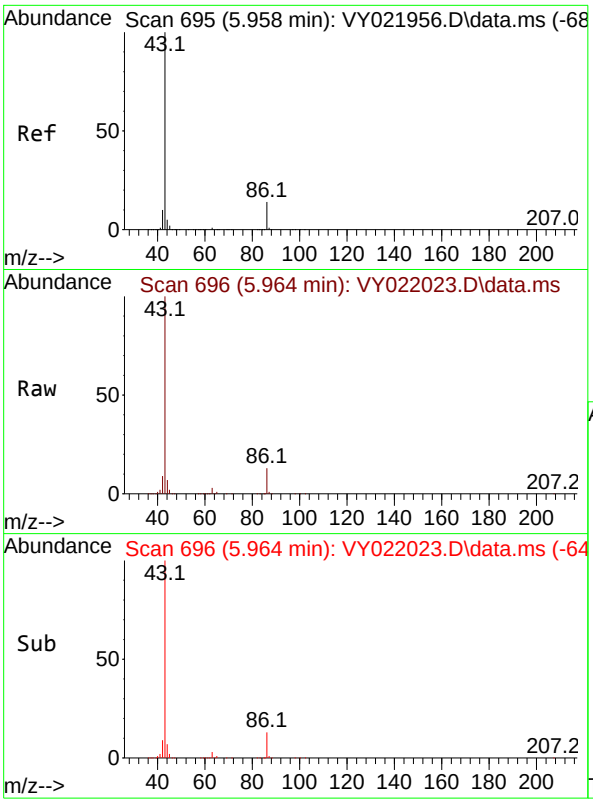


#22
Diisopropyl ether
Concen: 20.467 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 45 Resp: 152261

Ion	Ratio	Lower	Upper
45	100		
43	54.3	43.6	65.4
87	35.3	28.2	42.4
59	12.8	10.0	15.0





#23
Vinyl Acetate
Concen: 94.888 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 38044

Ion	Ratio	Lower	Upper
43	100		
86	13.1	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
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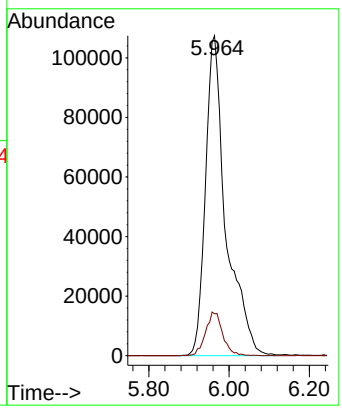
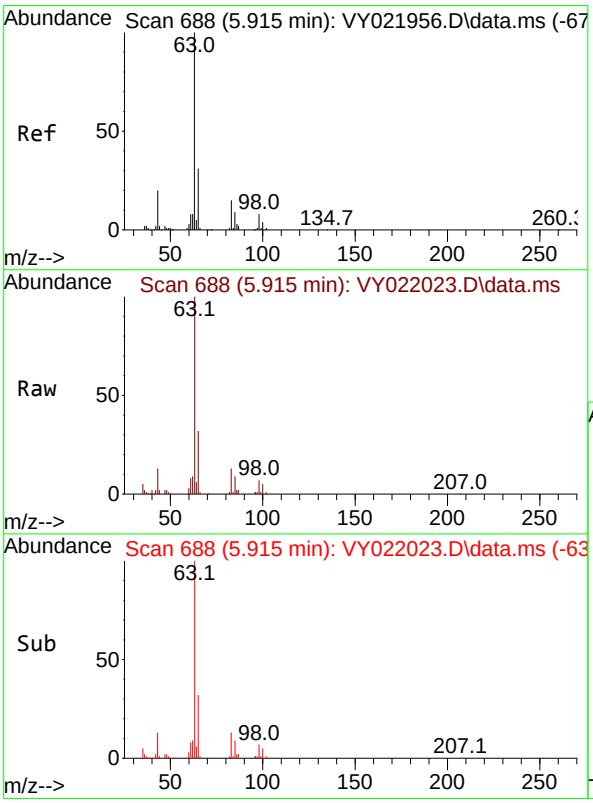
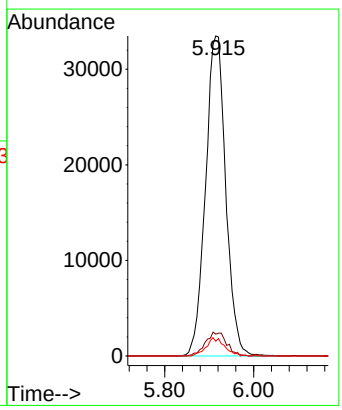


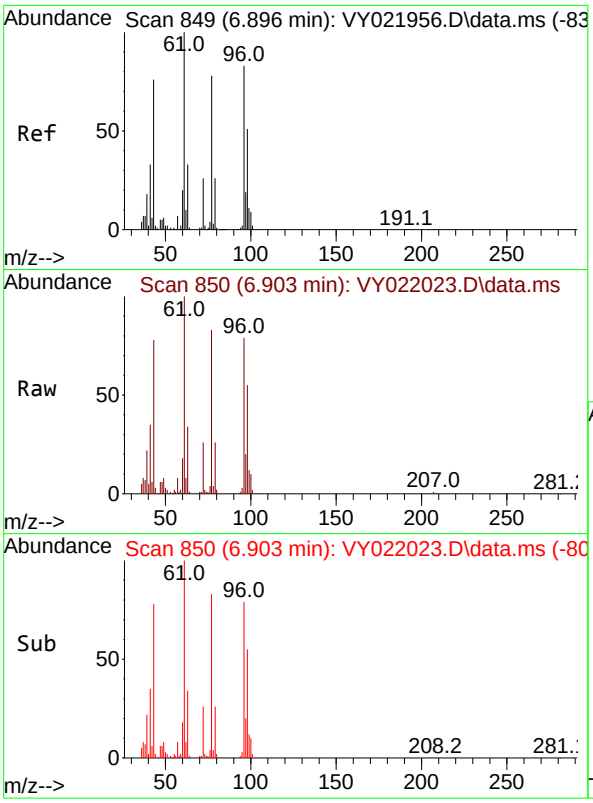


#24
1,1-Dichloroethane
Concen: 20.539 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 63 Resp: 105916

Ion	Ratio	Lower	Upper
63	100		
98	6.8	4.0	11.9
100	4.6	2.0	6.0





#25
2-Butanone
Concen: 89.353 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 5433

Ion	Ratio	Lower	Upper
43	100		
72	33.8	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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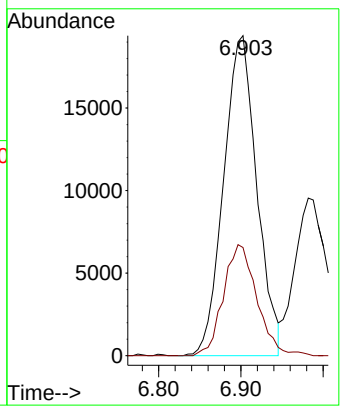
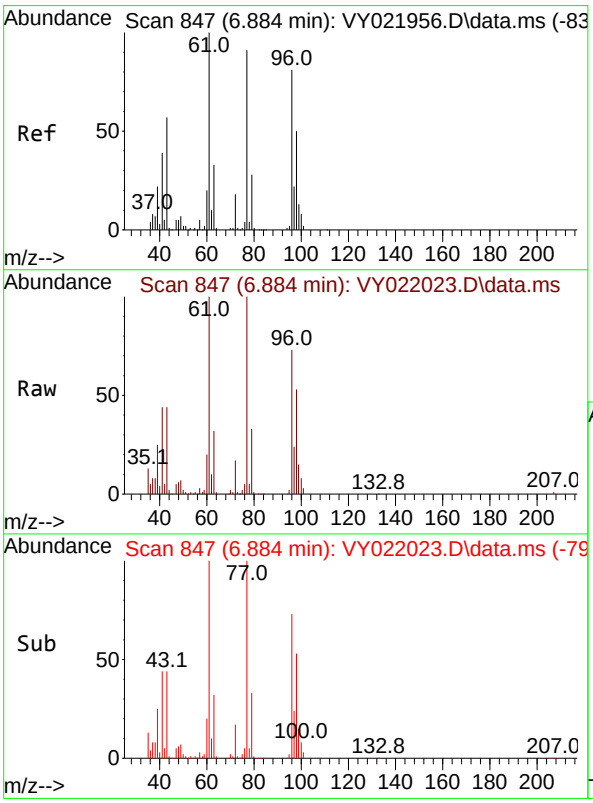
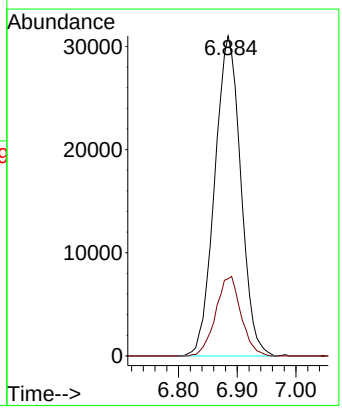


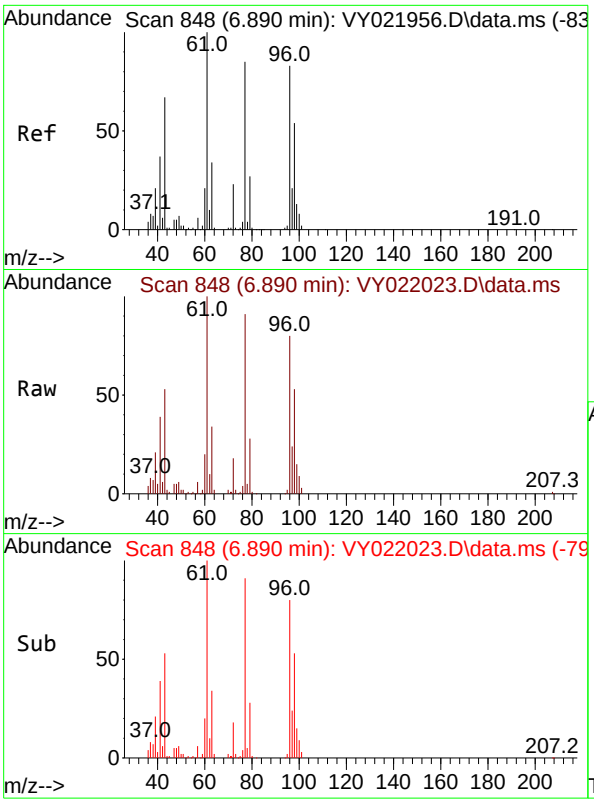


#26
2,2-Dichloropropane
Concen: 21.157 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 77 Resp: 95622

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.4	37.4





#27
cis-1,2-Dichloroethene
Concen: 19.896 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 96 Resp: 7153

Ion	Ratio	Lower	Upper
96	100		
61	129.5	0.0	251.4
98	65.8	0.0	128.4

Instrument :
MSVOA_Y
ClientSampleId :
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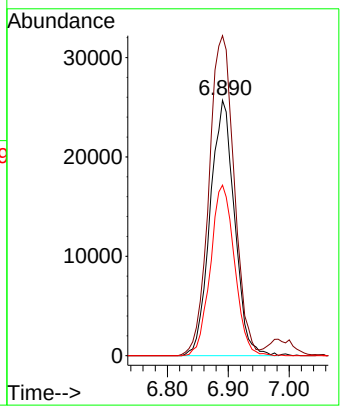
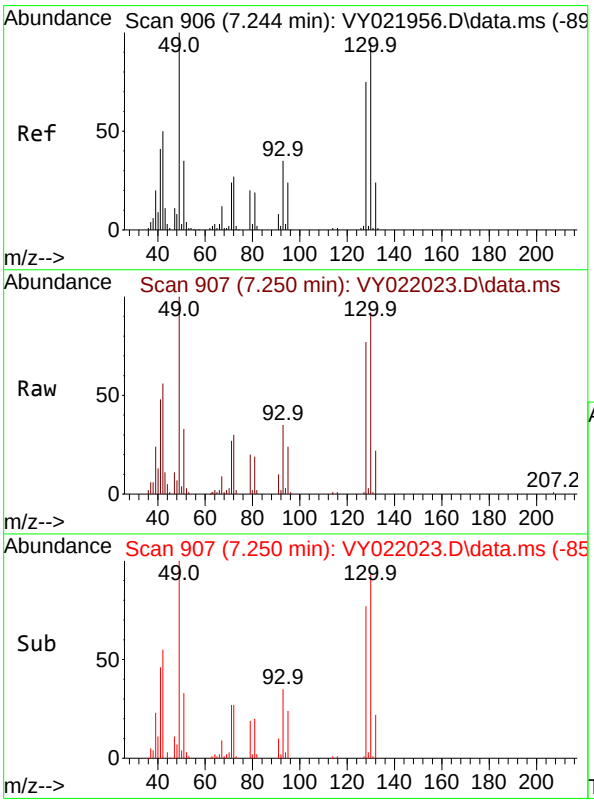
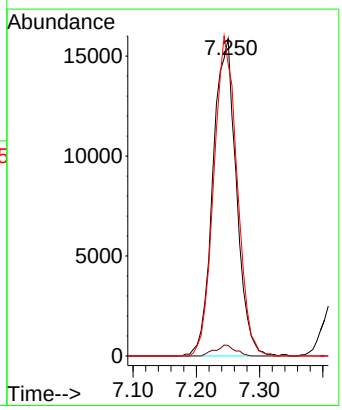


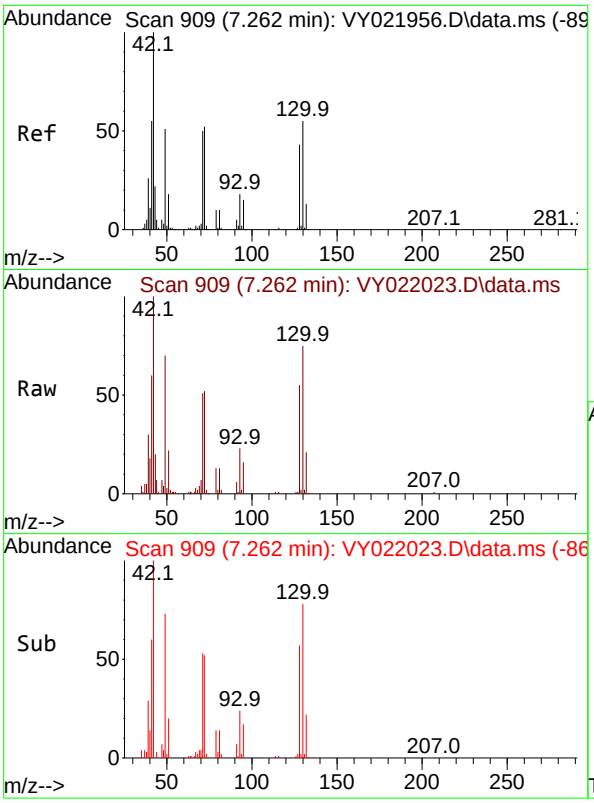


#28
Bromochloromethane
Concen: 20.270 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 49 Resp: 40600

Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	5.0
130	100.7	78.2	117.4

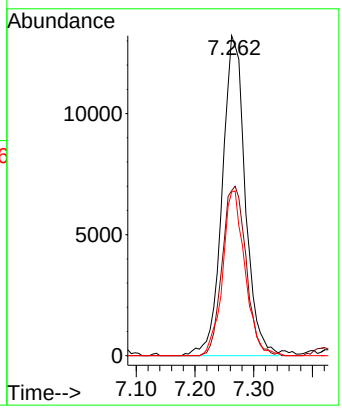




#29
Tetrahydrofuran
Concen: 91.193 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 42 Resp: 3601

Ion	Ratio	Lower	Upper
42	100		
72	54.9	42.6	63.8
71	50.0	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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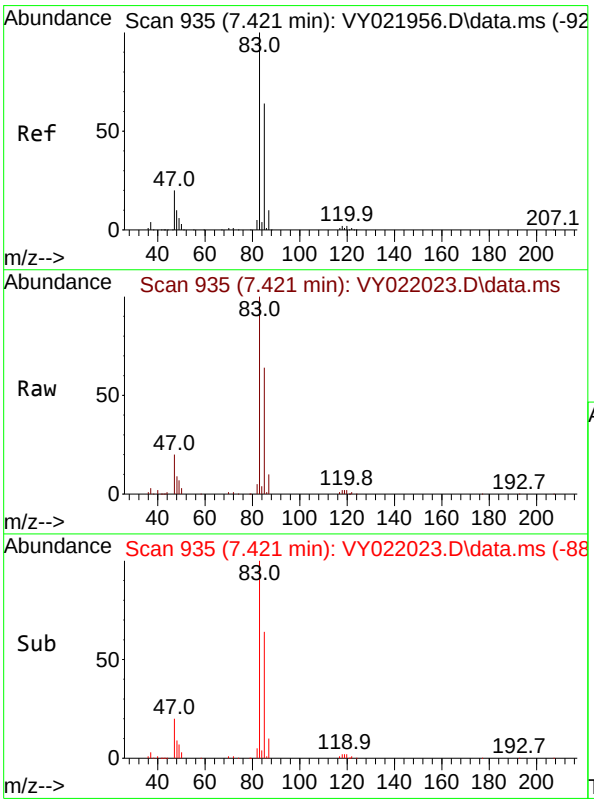
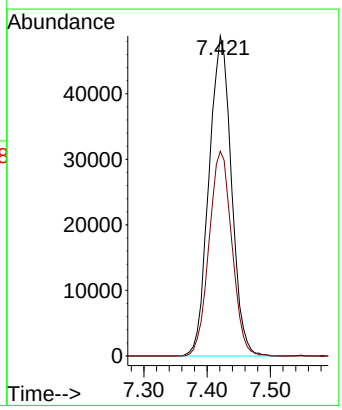
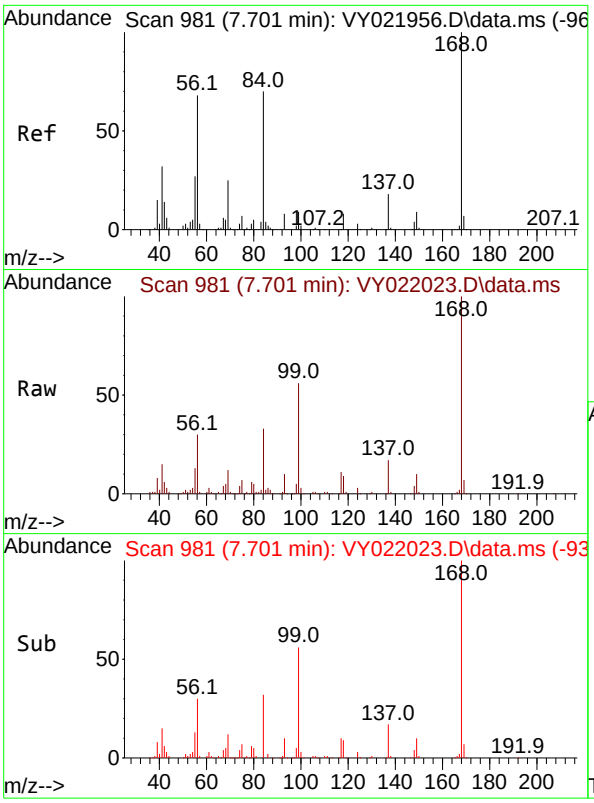


#30
Chloroform
Concen: 20.997 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 83 Resp: 120103

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.3	76.9

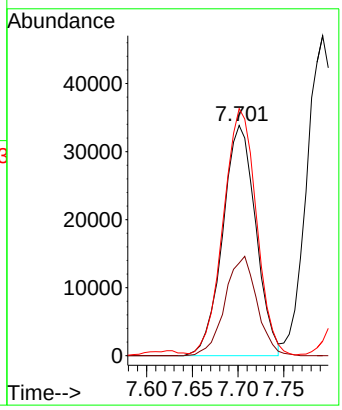




#31
Cyclohexane
Concen: 19.307 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 56 Resp: 8514

Ion	Ratio	Lower	Upper
56	100		
69	40.2	29.4	44.2
84	106.1	82.2	123.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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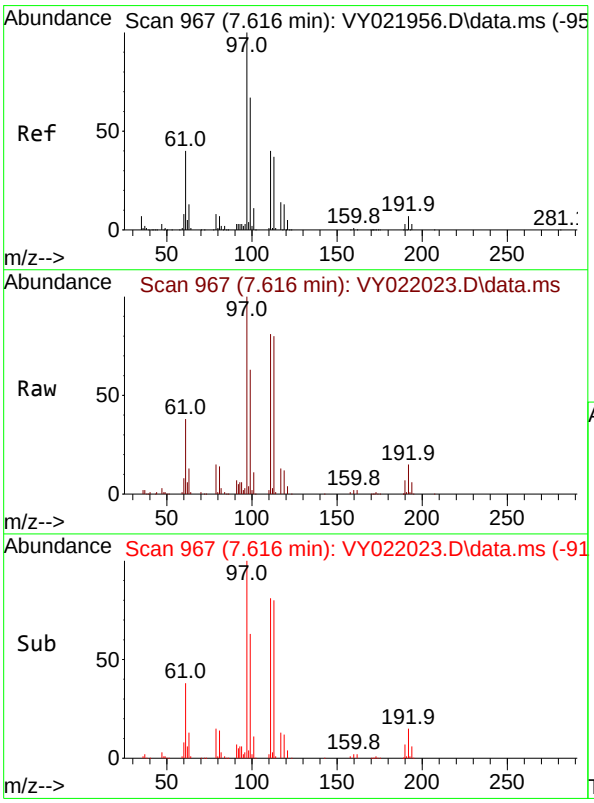
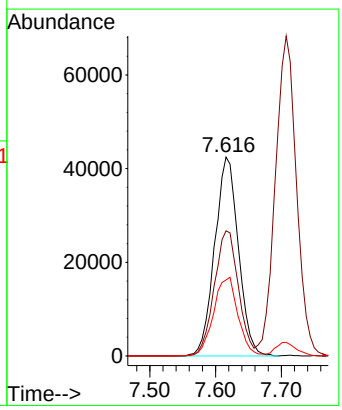
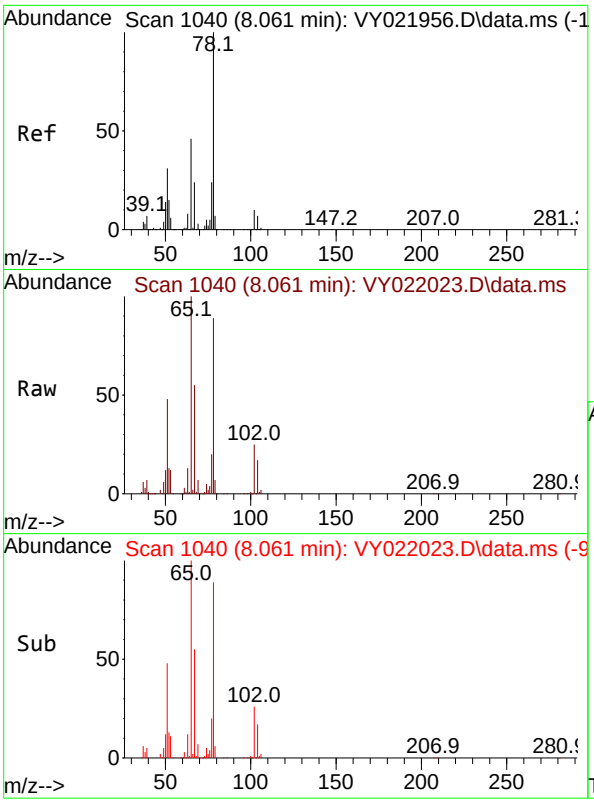


#32
1,1,1-Trichloroethane
Concen: 20.603 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 97 Resp: 106620

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.4	77.2
61	40.8	31.4	47.2

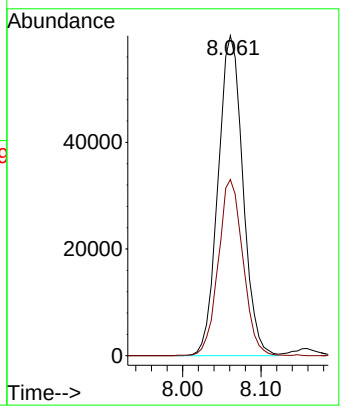




#33
1,2-Dichloroethane-d4
Concen: 49.495 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 65 Resp: 13203

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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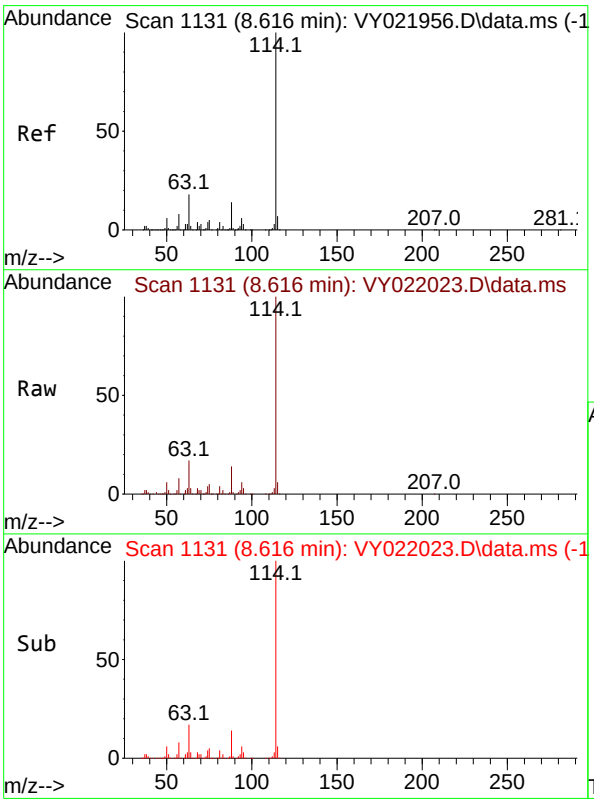
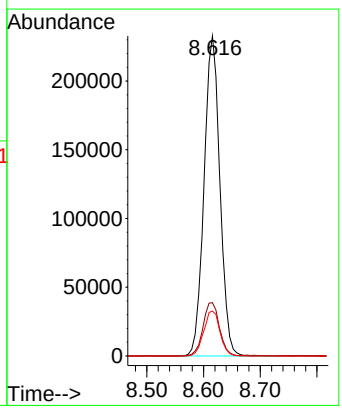
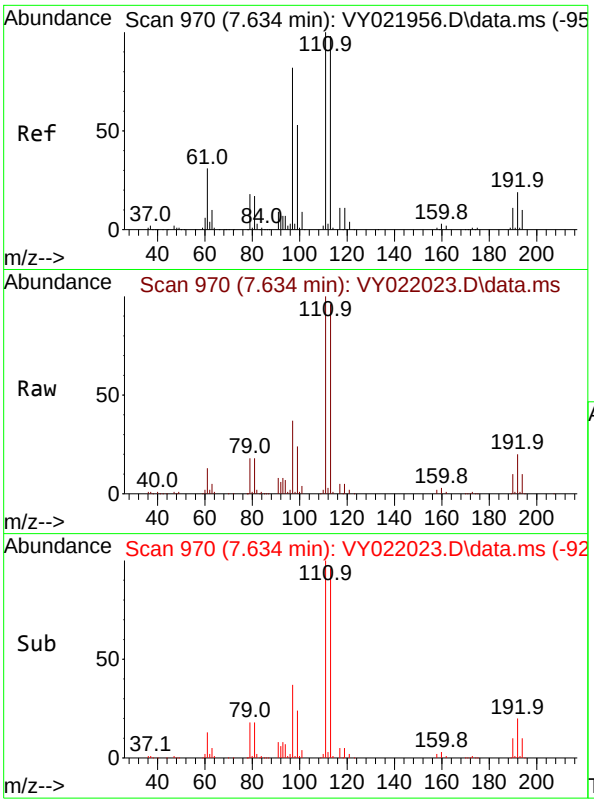


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:114 Resp: 451635

Ion	Ratio	Lower	Upper
114	100		
63	16.7	0.0	35.4
88	14.0	0.0	28.2

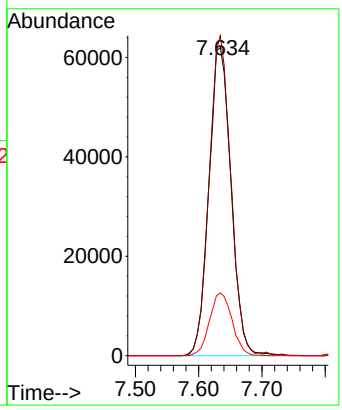




#35
Dibromofluoromethane
Concen: 50.749 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:113 Resp: 15142

Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.8	122.8
192	20.6	15.6	23.4



Instrument :
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ClientSampleId :
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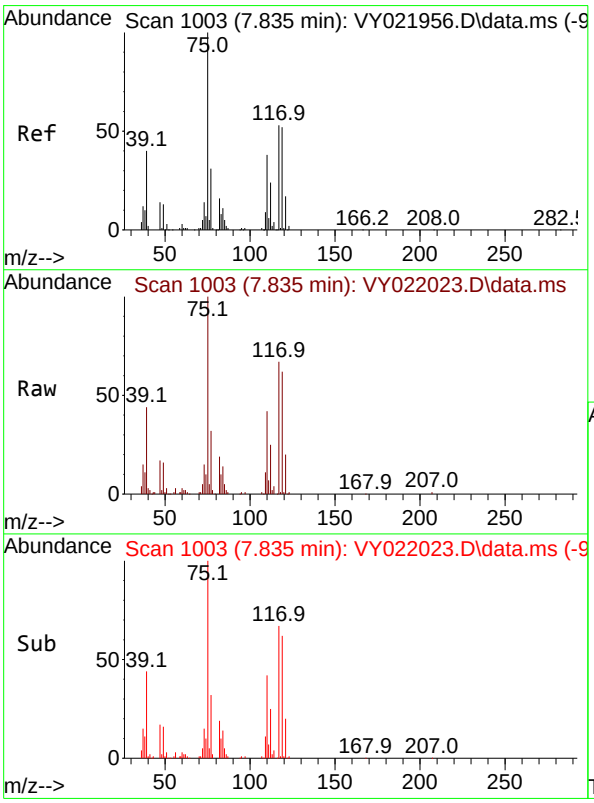
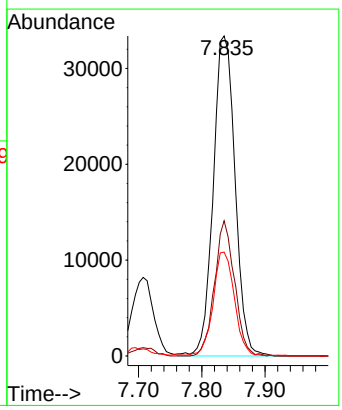
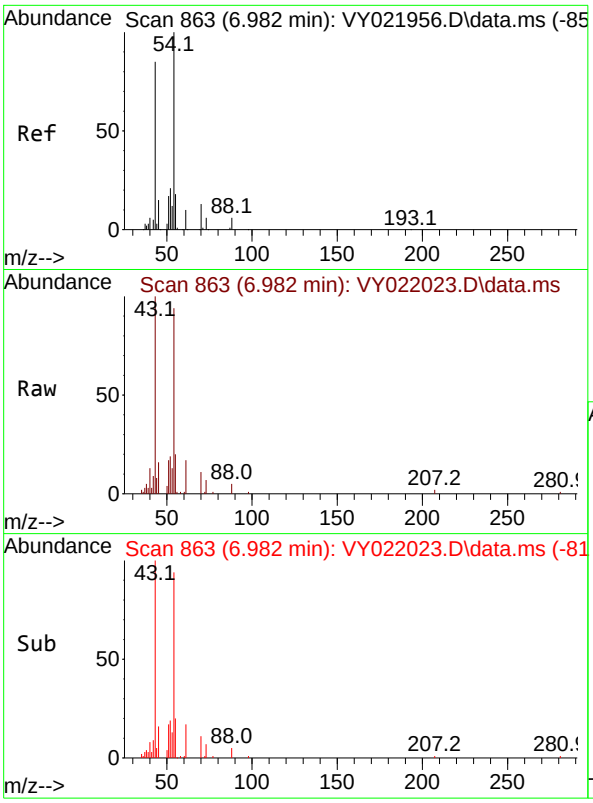


#36
1,1-Dichloropropene
Concen: 19.960 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 75 Resp: 79998

Ion	Ratio	Lower	Upper
75	100		
110	38.7	19.1	57.3
77	31.1	25.5	38.3





#37
Ethyl Acetate
Concen: 18.794 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 2705

Ion	Ratio	Lower	Upper
43	100		
61	18.0	13.8	20.6
70	13.3	9.2	13.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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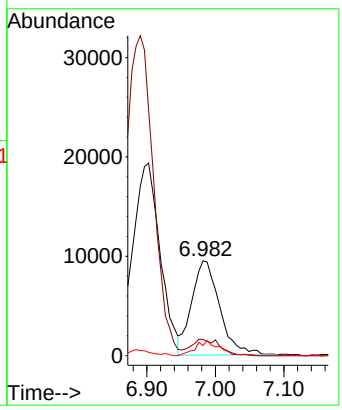
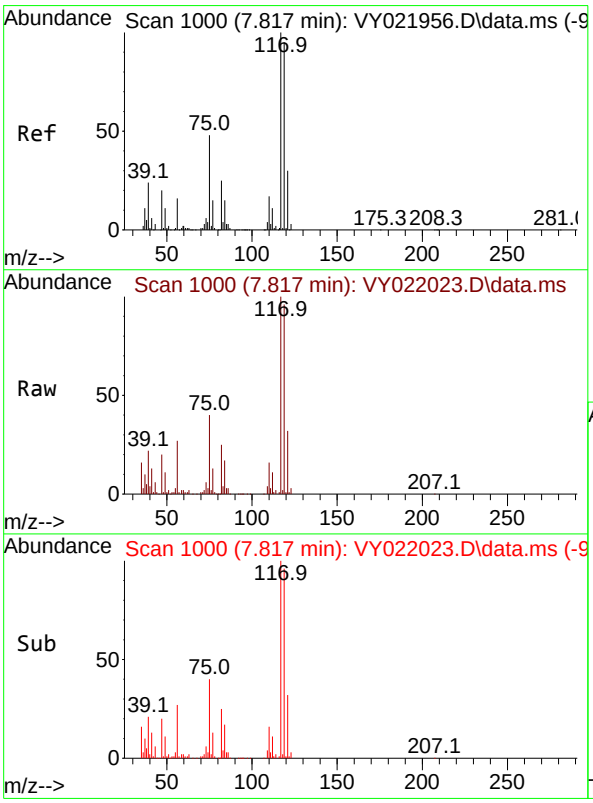
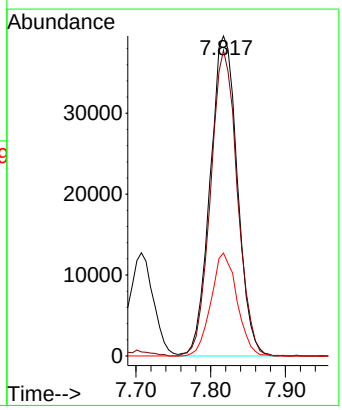


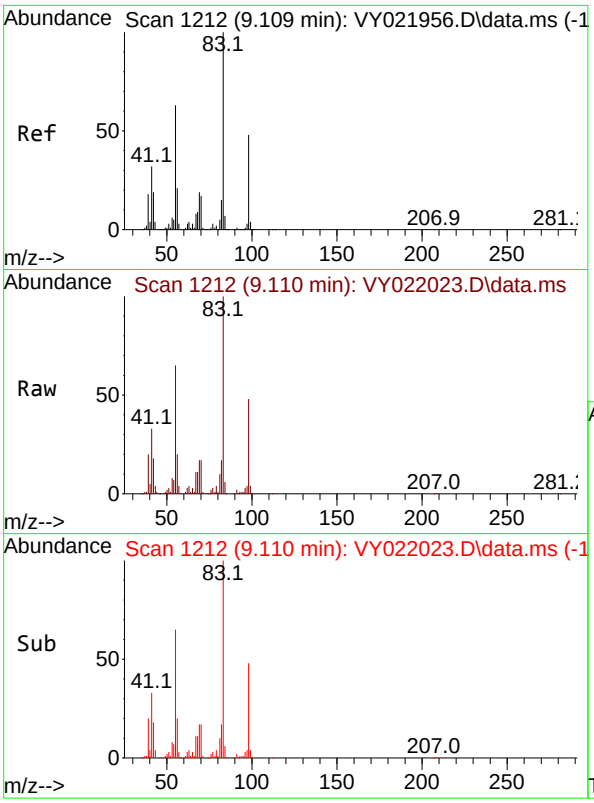


#38
Carbon Tetrachloride
Concen: 20.888 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:117 Resp: 100038

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.2	114.4
121	32.2	24.0	36.0





#39
Methylcyclohexane
Concen: 19.137 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 83 Resp: 9652

Ion	Ratio	Lower	Upper
83	100		
55	64.5	50.6	75.8
98	47.9	38.6	58.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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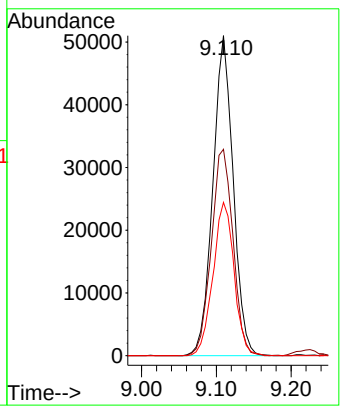
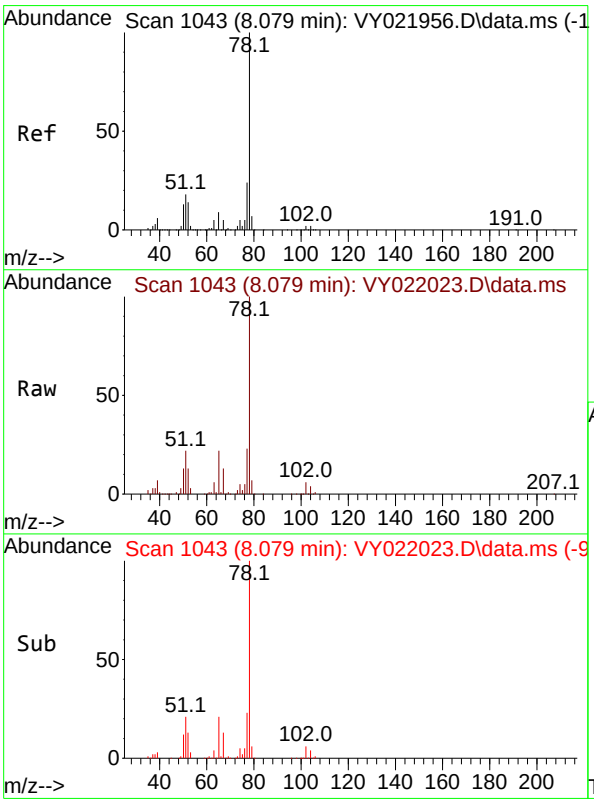
Supervised By :Mahesh Dadoda 04/29/2025

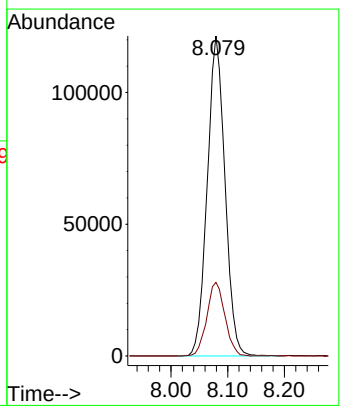


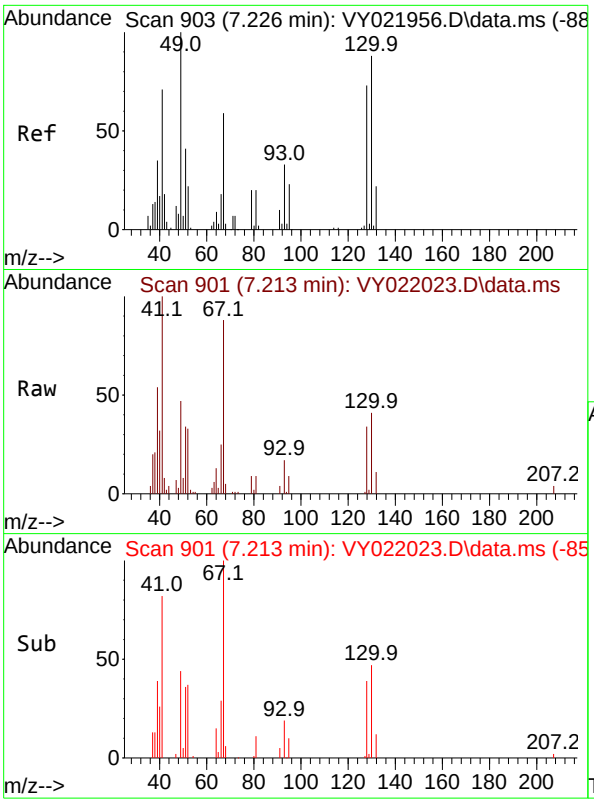


#40
Benzene
Concen: 21.003 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 78 Resp: 263141

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.3	28.9

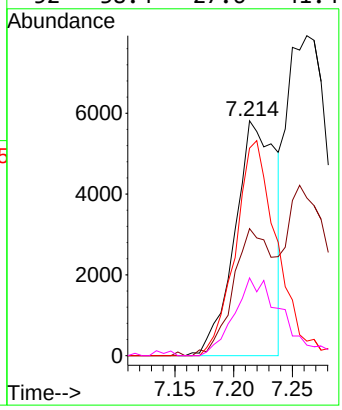




#41
Methacrylonitrile
Concen: 17.888 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.012 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 41 Resp: 1407(

Ion	Ratio	Lower	Upper
41	100		
39	47.8	36.6	55.0
67	93.1	72.2	108.4
52	38.4	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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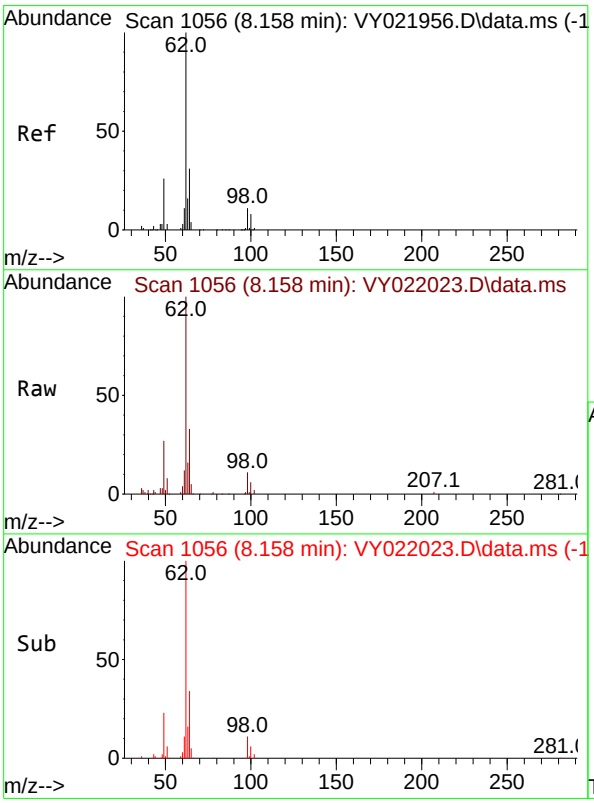
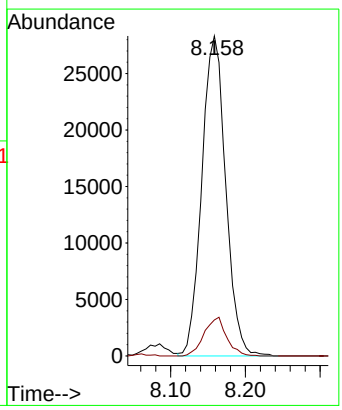
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

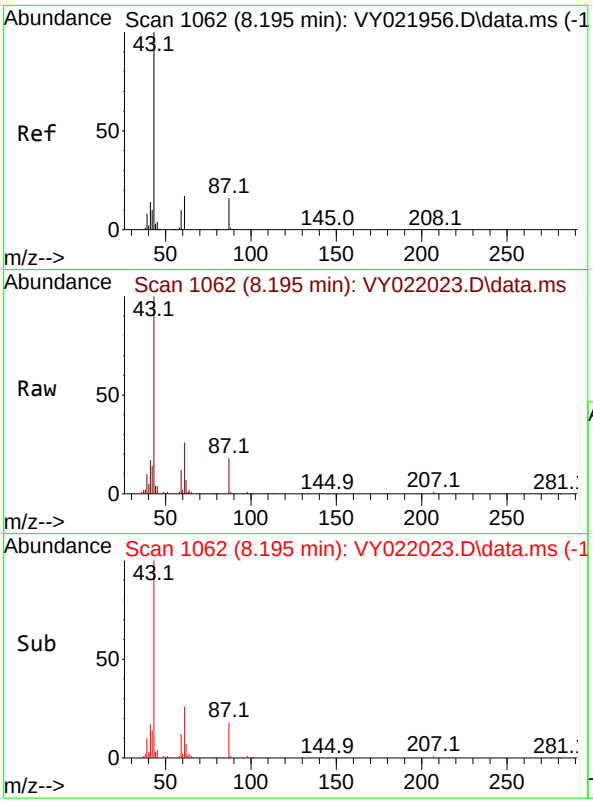


#42
1,2-Dichloroethane
Concen: 20.260 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 62 Resp: 62844

Ion	Ratio	Lower	Upper
62	100		
98	11.4	0.0	22.0

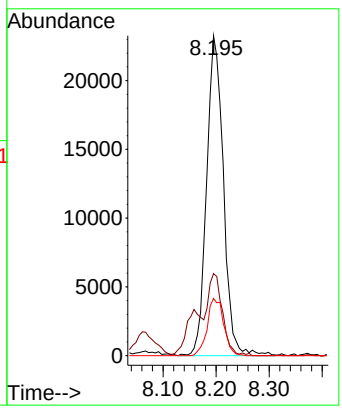




#43
Isopropyl Acetate
Concen: 18.556 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 5129

Ion	Ratio	Lower	Upper
43	100		
61	22.2	18.9	28.3
87	17.6	13.7	20.5



Instrument :
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ClientSampleId :
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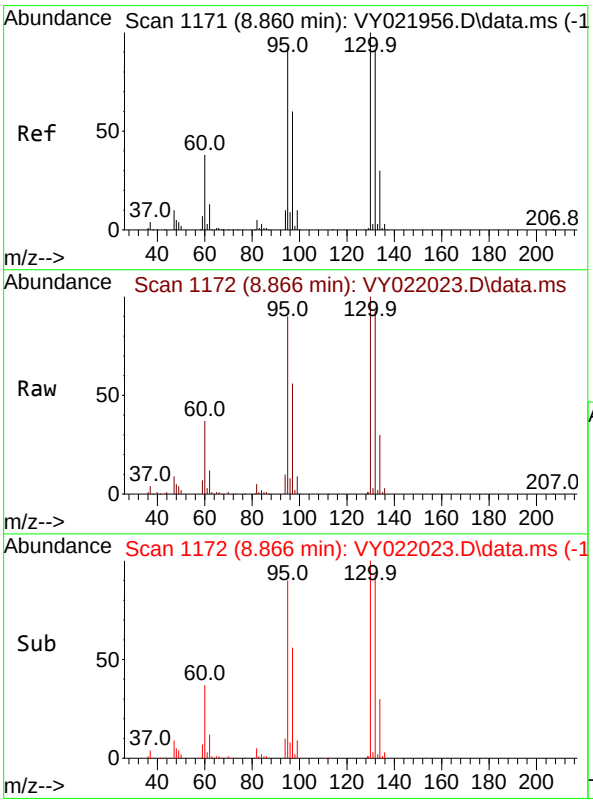
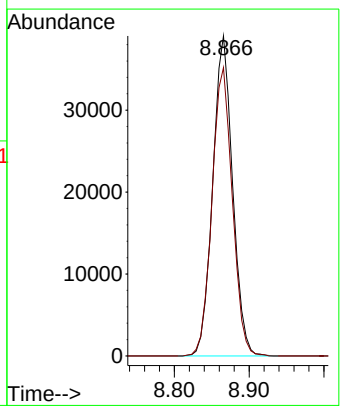
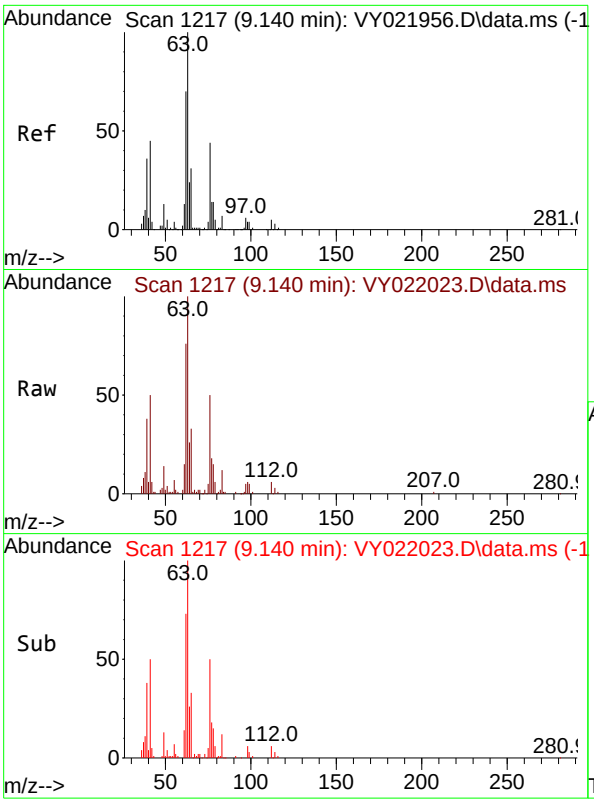


#44
Trichloroethene
Concen: 20.773 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:130 Resp: 72088

Ion	Ratio	Lower	Upper
130	100		
95	90.1	0.0	183.2

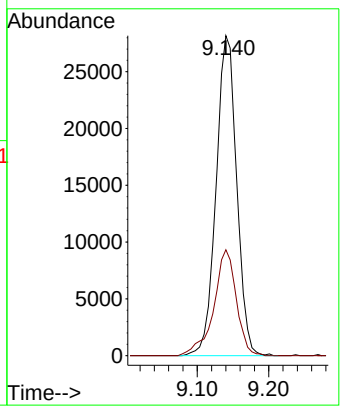




#45
1,2-Dichloropropane
Concen: 20.333 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 63 Resp: 5633

Ion	Ratio	Lower	Upper
63	100		
65	33.1	25.2	37.8



Instrument :
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ClientSampleId :
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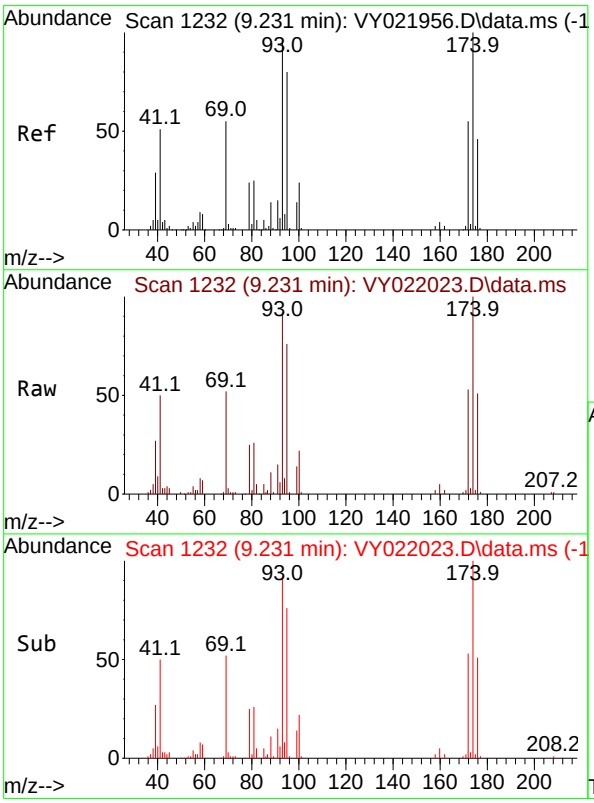
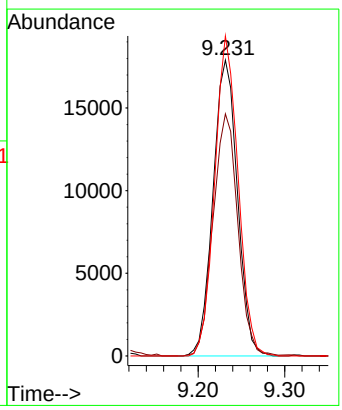
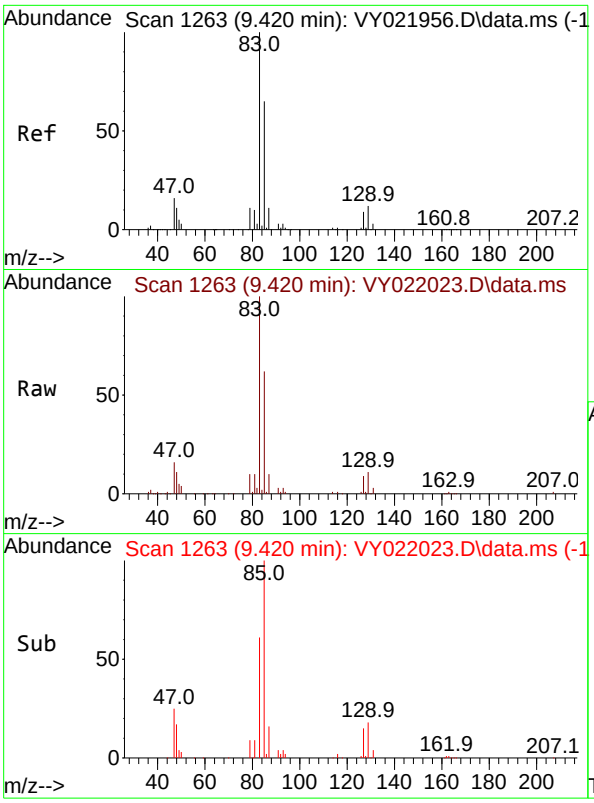


#46
Dibromomethane
Concen: 20.183 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 93 Resp: 35005

Ion	Ratio	Lower	Upper
93	100		
95	83.3	66.7	100.1
174	103.9	84.6	127.0

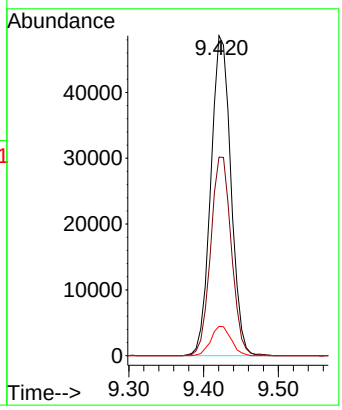




#47
Bromodichloromethane
Concen: 21.008 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 83 Resp: 9102

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.8	77.8
127	9.1	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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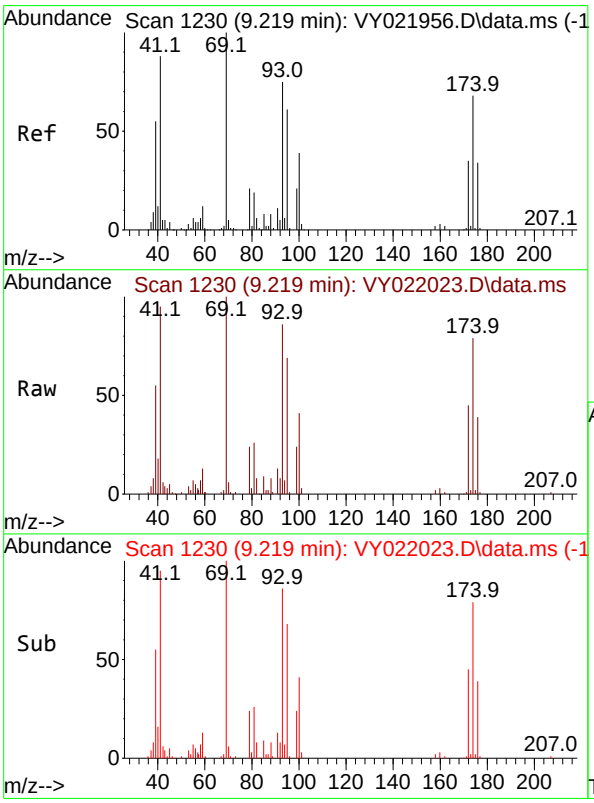
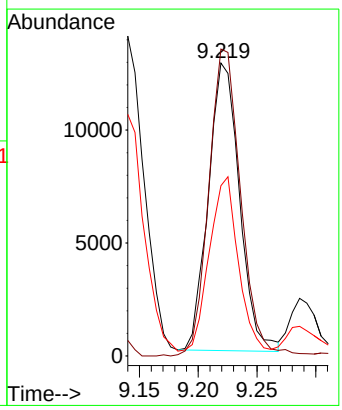
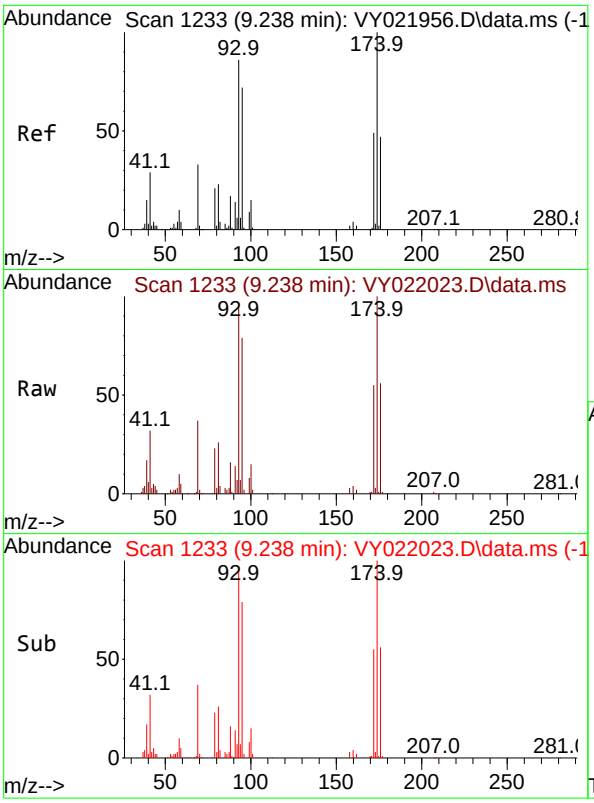


#48
Methyl methacrylate
Concen: 18.377 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 41 Resp: 23485

Ion	Ratio	Lower	Upper
41	100		
69	109.2	85.5	128.3
39	56.5	46.2	69.4





#49
1,4-Dioxane
Concen: 375.040 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 88 Resp: 693

Ion	Ratio	Lower	Upper
88	100		
43	19.1	21.3	31.9#
58	62.4	50.5	75.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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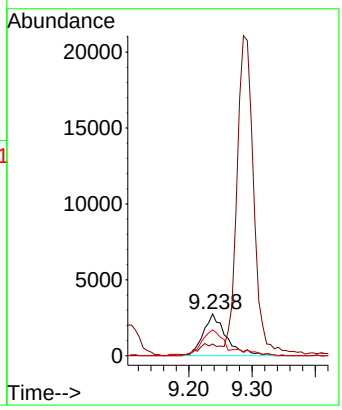
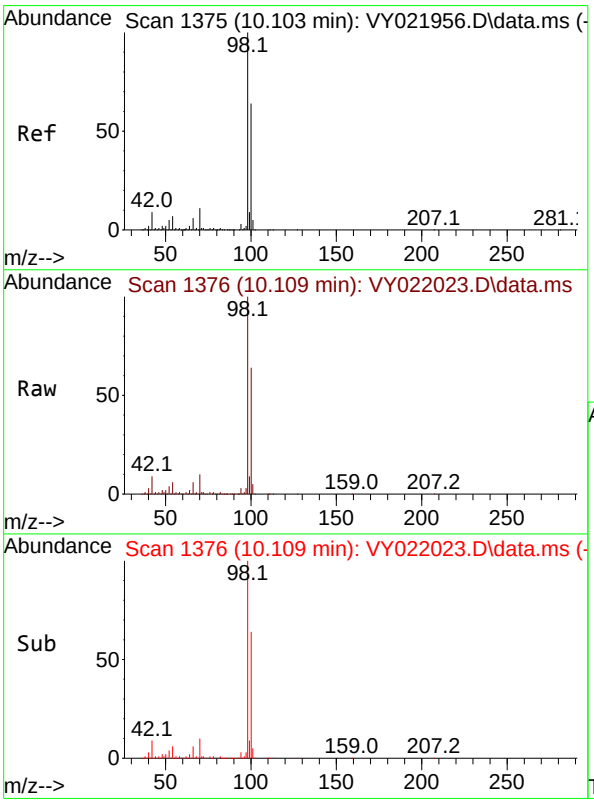
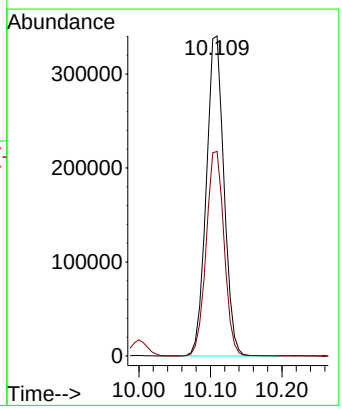


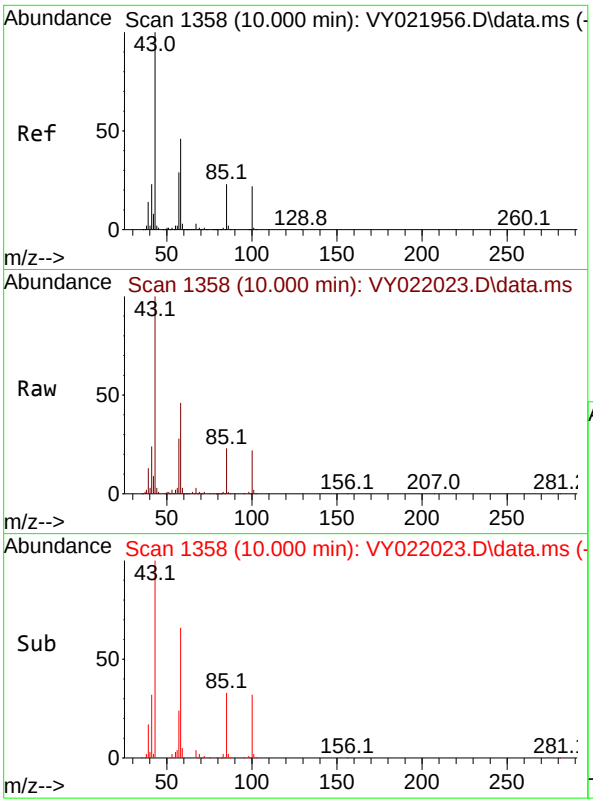


#50
Toluene-d8
Concen: 51.869 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 98 Resp: 583457

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.6	77.4

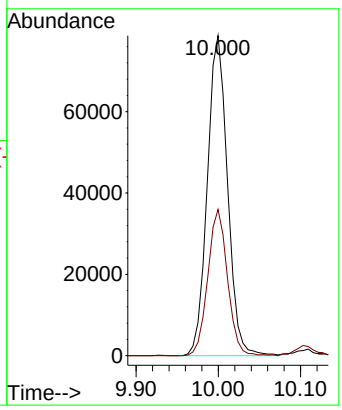




#51
4-Methyl-2-Pentanone
Concen: 92.823 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 13451

Ion	Ratio	Lower	Upper
43	100		
58	44.5	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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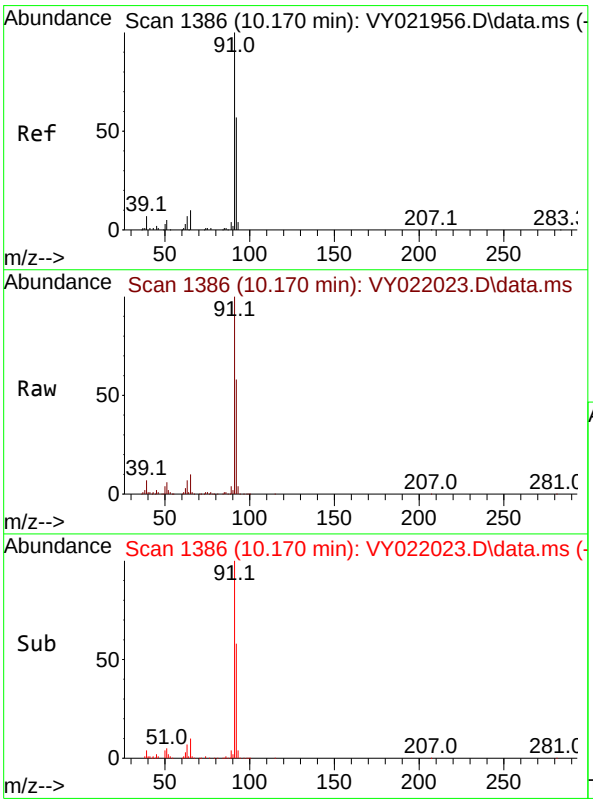
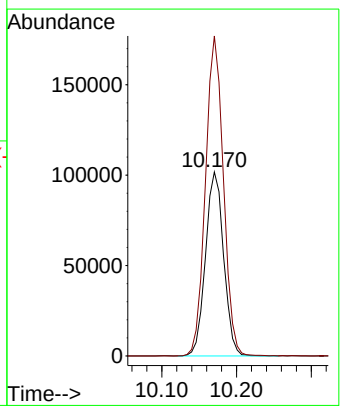
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

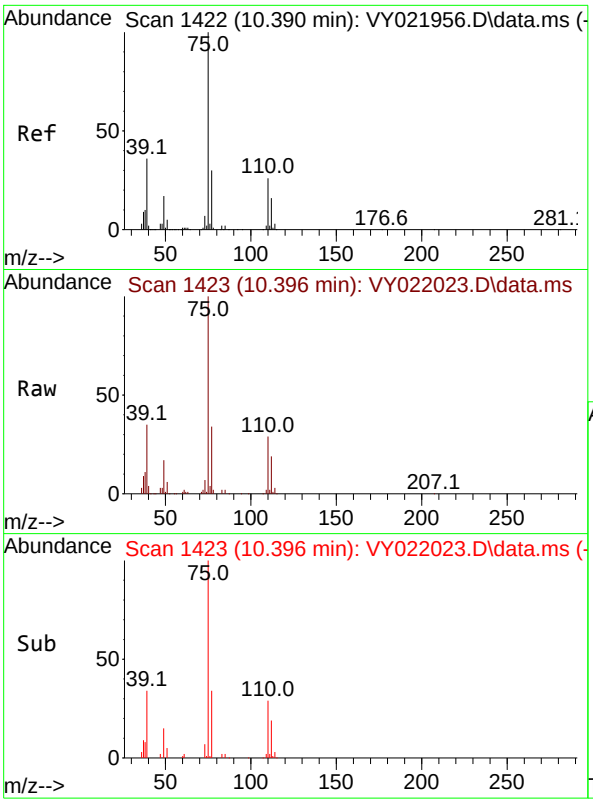


#52
Toluene
Concen: 21.124 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 92 Resp: 171313

Ion	Ratio	Lower	Upper
92	100		
91	172.3	138.6	207.8

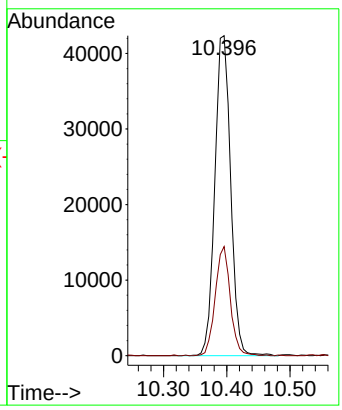




#53
t-1,3-Dichloropropene
Concen: 19.727 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 75 Resp: 7331

Ion	Ratio	Lower	Upper
75	100		
77	34.1	24.0	36.0



Instrument :
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ClientSampleId :
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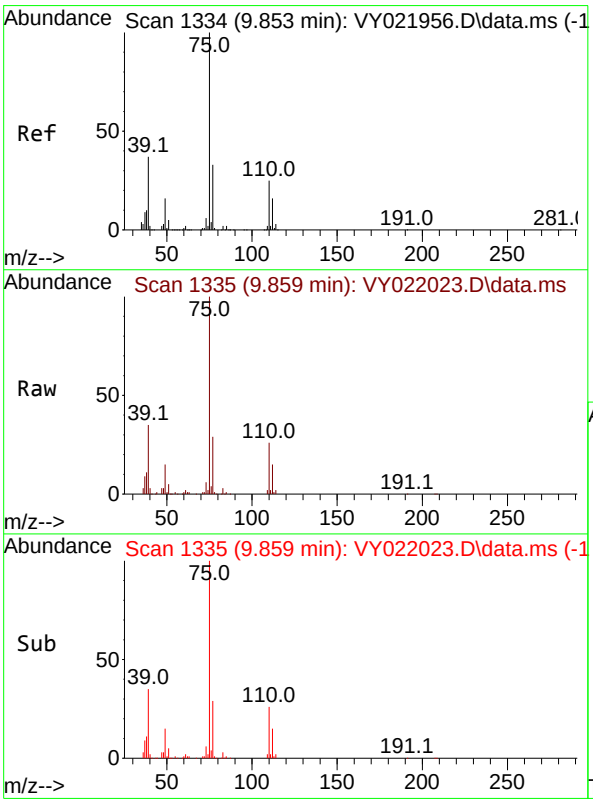
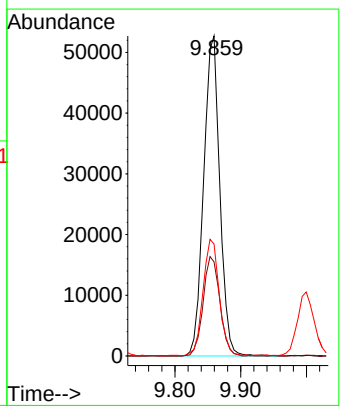
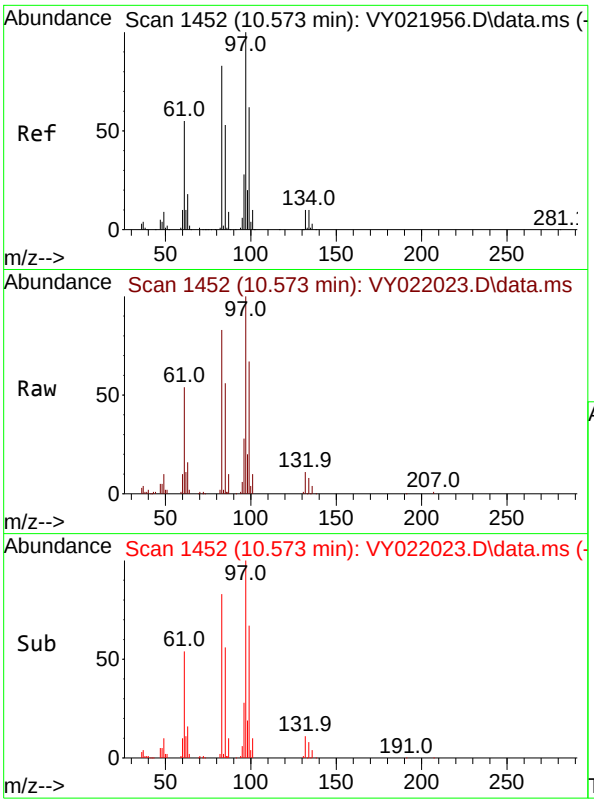


#54
cis-1,3-Dichloropropene
Concen: 20.315 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 75 Resp: 89748

Ion	Ratio	Lower	Upper
75	100		
77	29.4	26.6	40.0
39	34.9	29.6	44.4

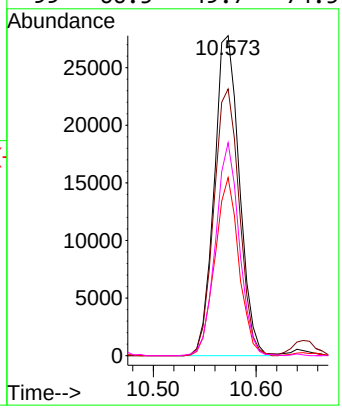




#55
1,1,2-Trichloroethane
Concen: 20.441 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 97 Resp: 4735

Ion	Ratio	Lower	Upper
97	100		
83	83.4	66.7	100.1
85	55.7	42.6	64.0
99	66.5	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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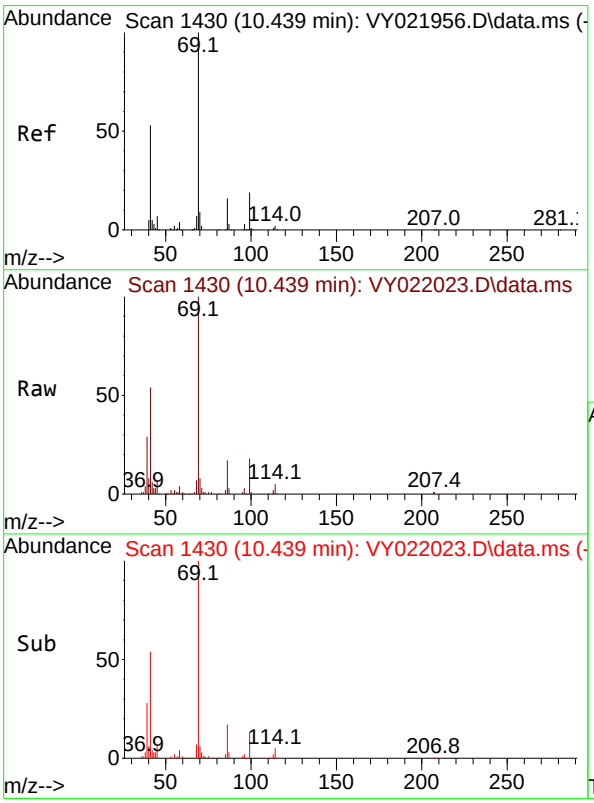
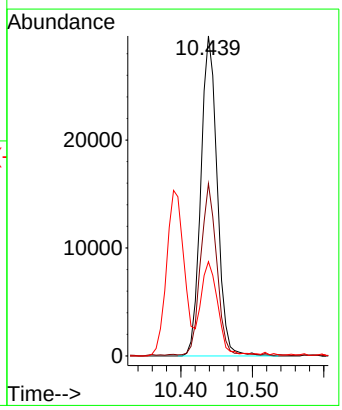
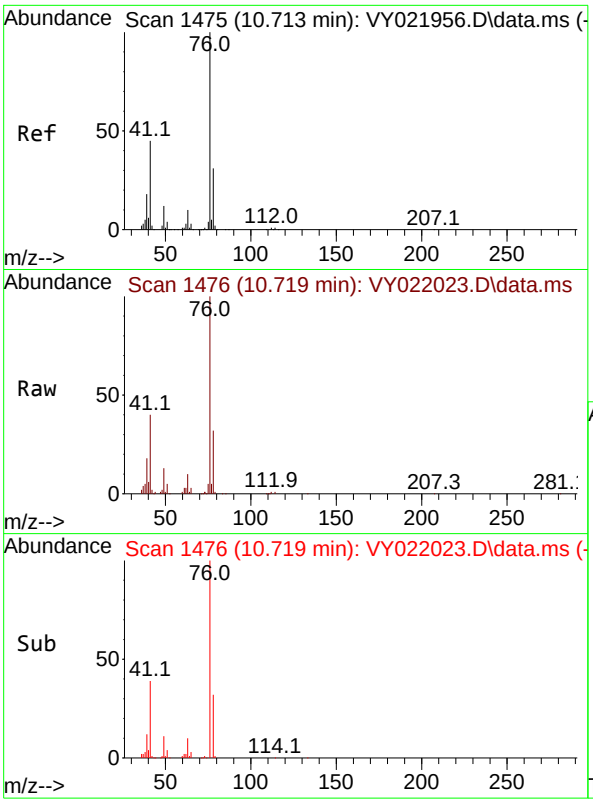


#56
Ethyl methacrylate
Concen: 17.789 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 69 Resp: 47130

Ion	Ratio	Lower	Upper
69	100		
41	52.5	40.7	61.1
39	28.5	23.3	34.9

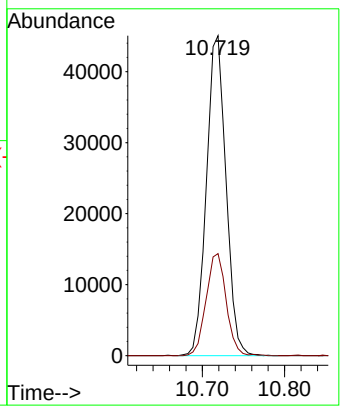




#57
1,3-Dichloropropane
Concen: 20.062 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 76 Resp: 7451

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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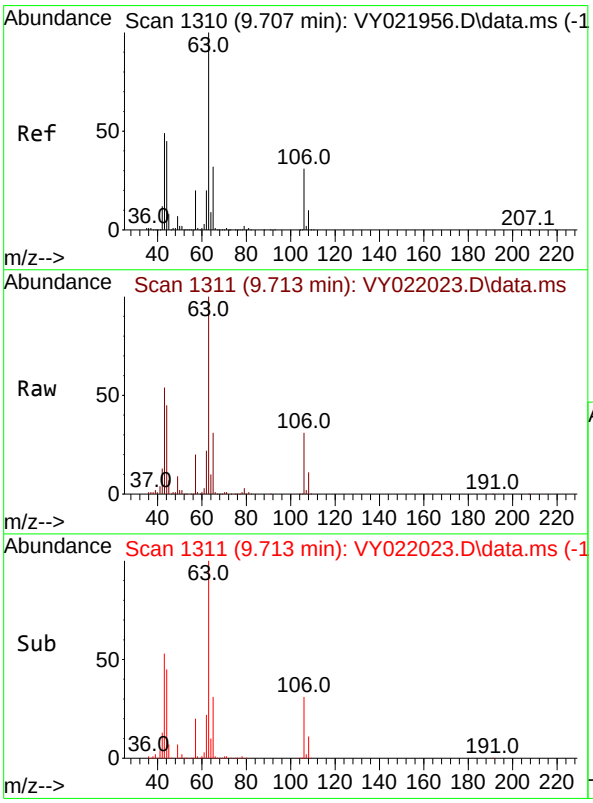
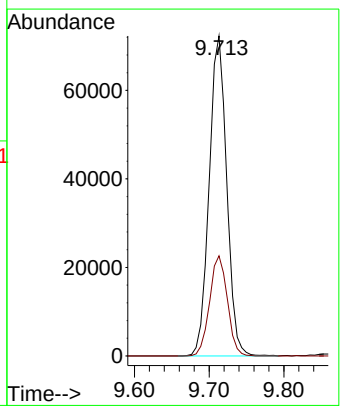
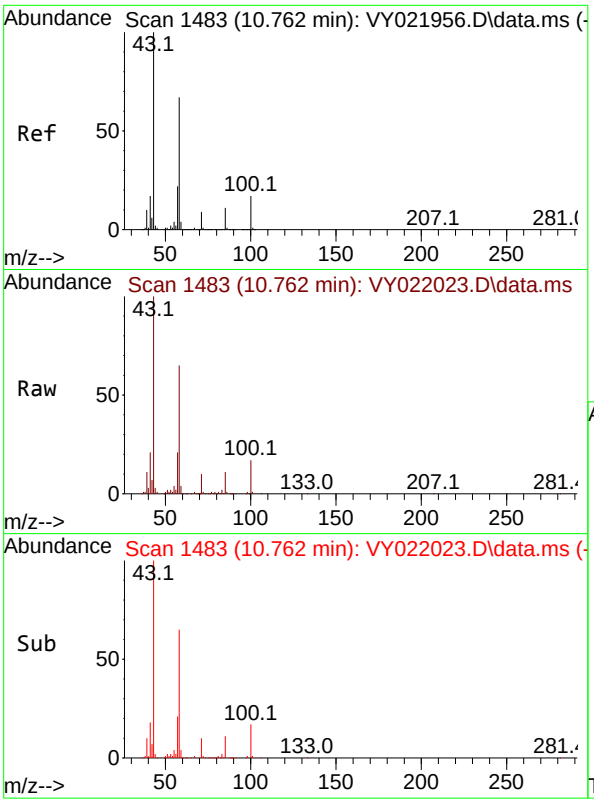


#58
2-Chloroethyl Vinyl ether
Concen: 90.927 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 63 Resp: 117783

Ion	Ratio	Lower	Upper
63	100		
106	31.6	25.3	37.9

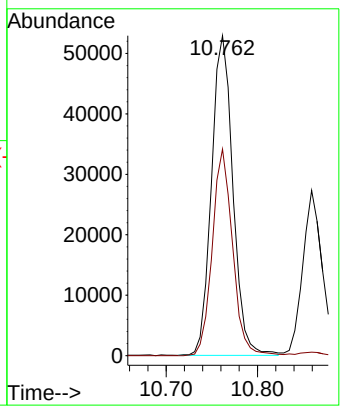




#59
2-Hexanone
Concen: 89.933 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 8595

Ion	Ratio	Lower	Upper
43	100		
58	61.3	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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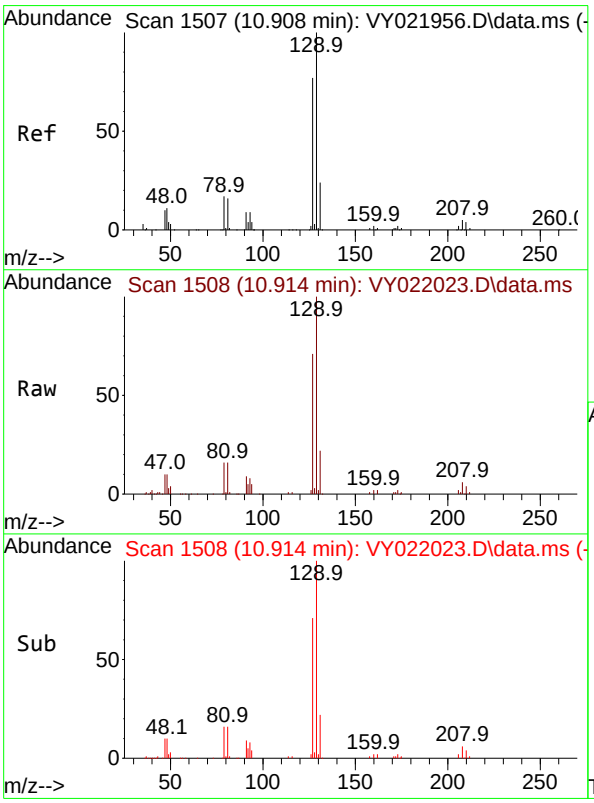
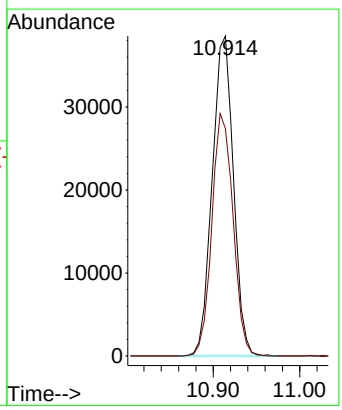
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

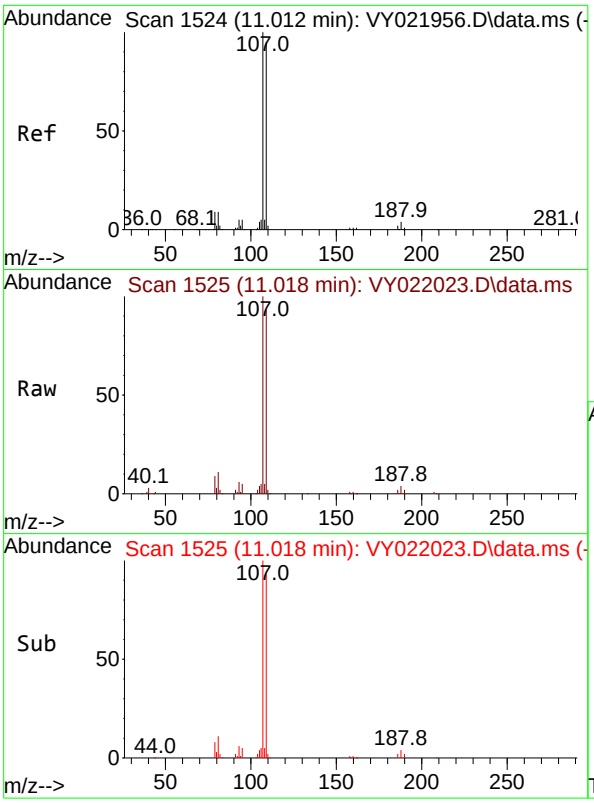


#60
Dibromochloromethane
Concen: 20.457 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:129 Resp: 65617

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.5	115.3

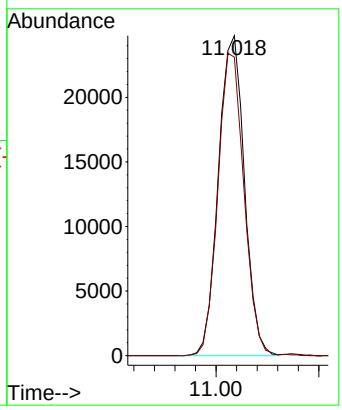




#61
1,2-Dibromoethane
Concen: 19.877 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:107 Resp: 4347

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.8	113.8



Instrument :
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ClientSampleId :
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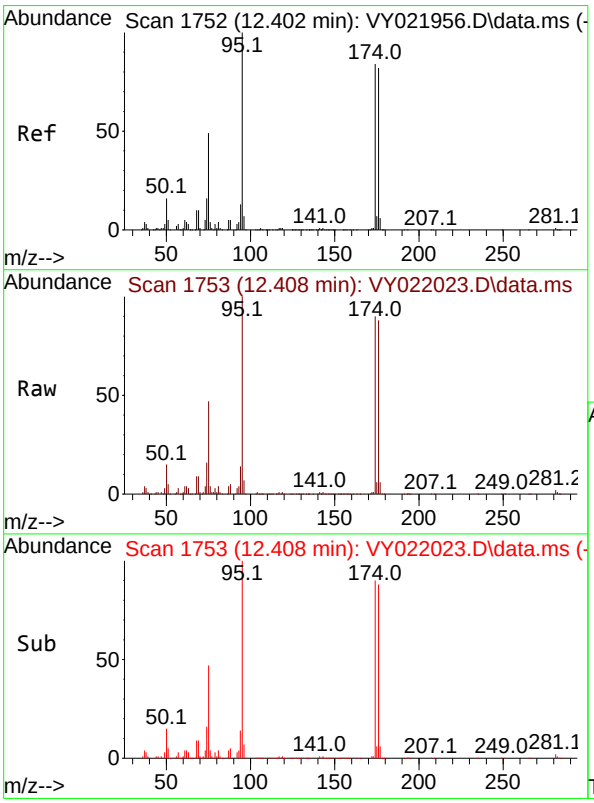
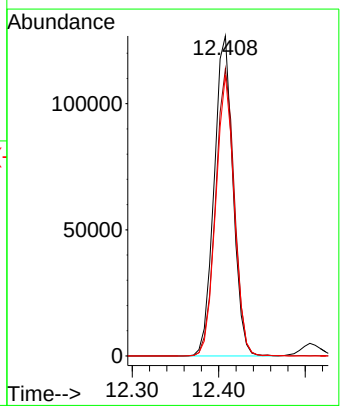
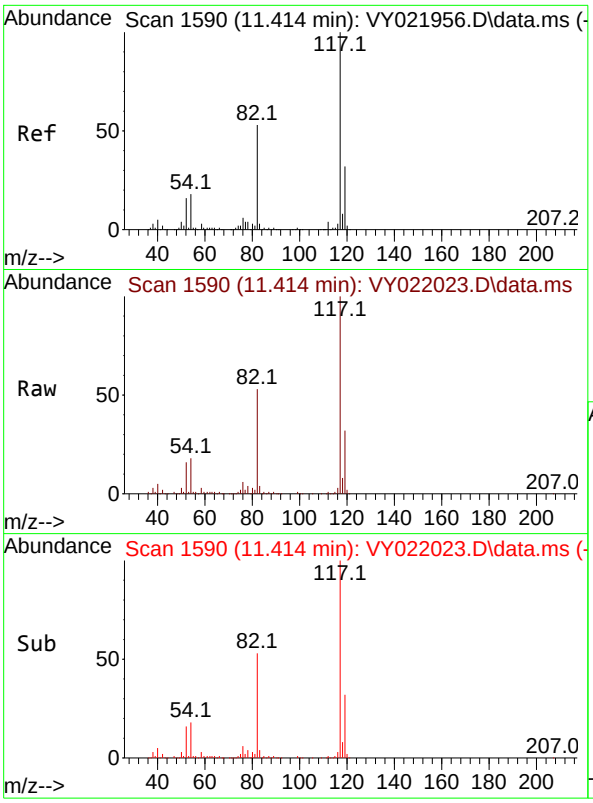


#62
4-Bromofluorobenzene
Concen: 50.596 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 95 Resp: 191595

Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	179.0
176	86.0	0.0	171.8

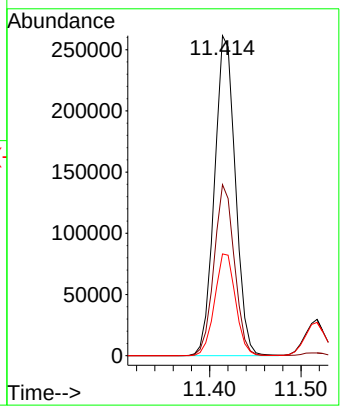




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:117 Resp: 41491

Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.1	63.1
119	31.8	25.7	38.5



Instrument :
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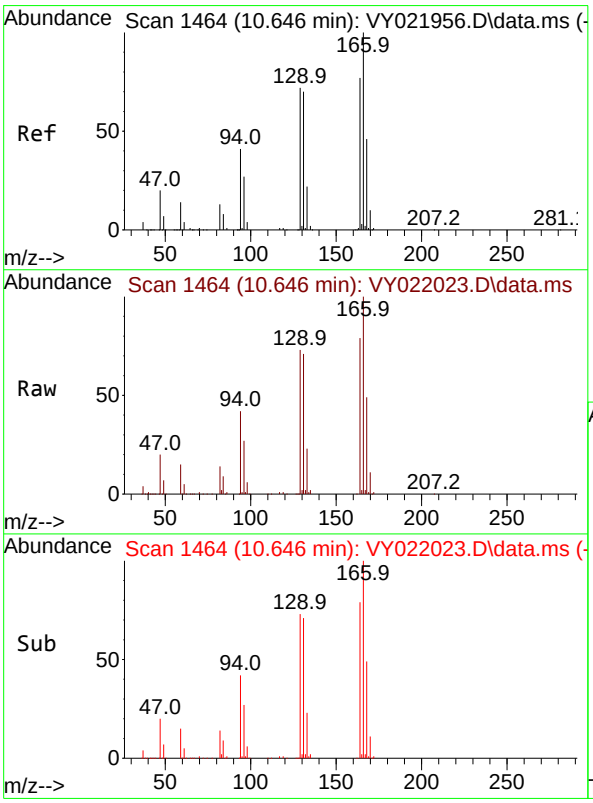
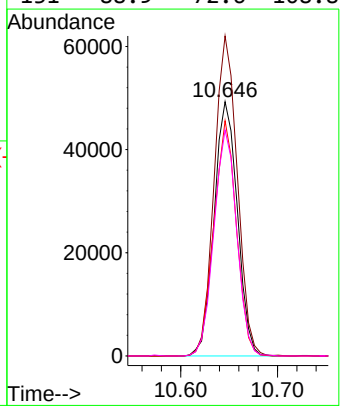
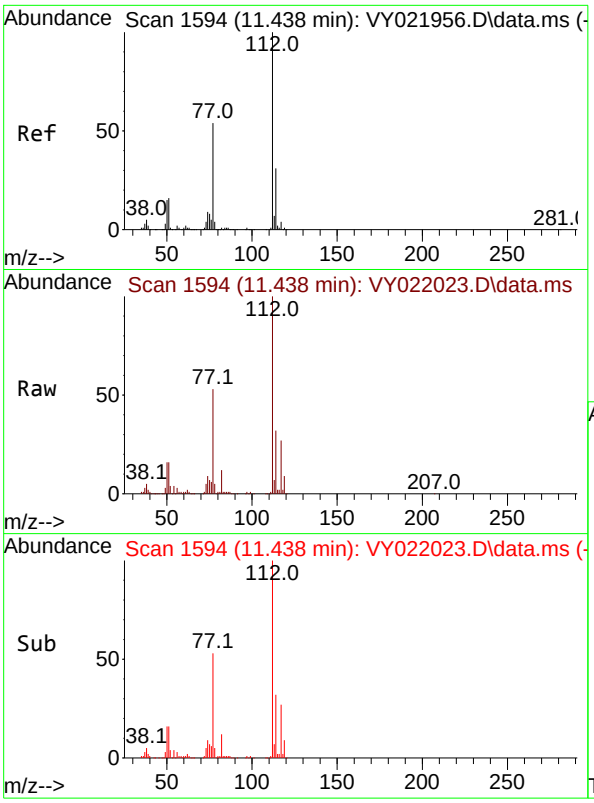


#64
Tetrachloroethene
Concen: 21.059 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:164 Resp: 82426

Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.6	155.4
129	92.5	74.2	111.4
131	88.9	72.6	108.8

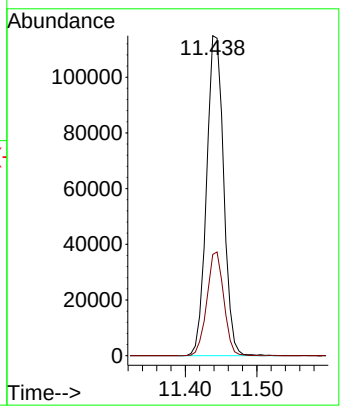




#65
Chlorobenzene
Concen: 20.501 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:112 Resp: 19021

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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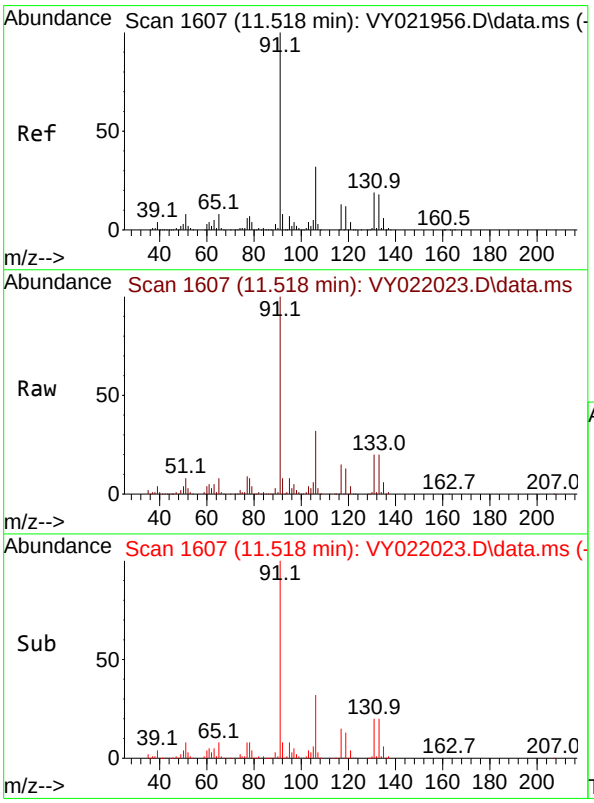
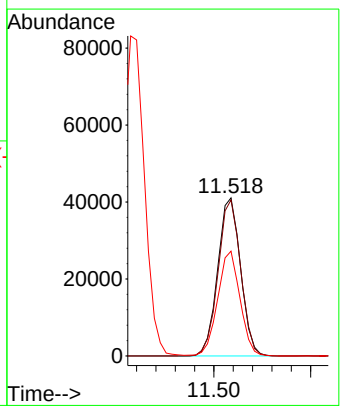
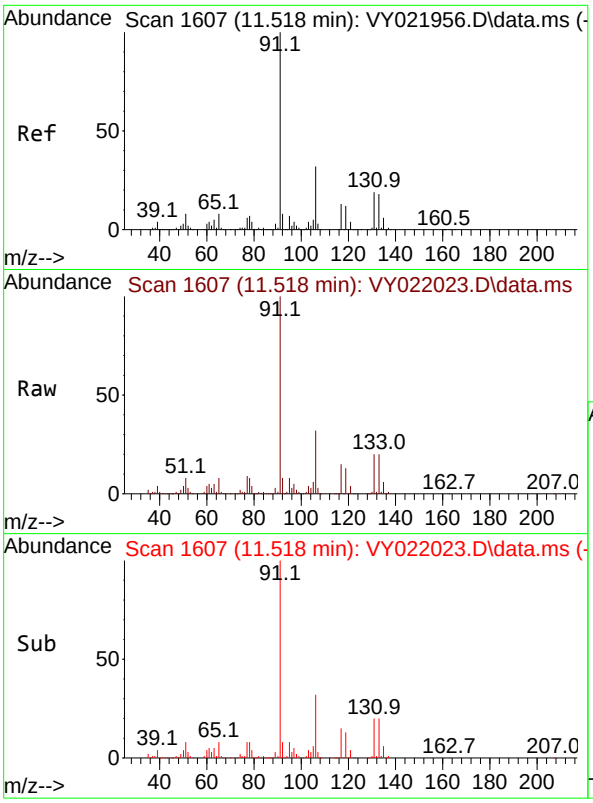


#66
1,1,1,2-Tetrachloroethane
Concen: 20.626 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:131 Resp: 67377

Ion	Ratio	Lower	Upper
131	100		
133	97.5	47.8	143.3
119	64.8	32.4	97.0

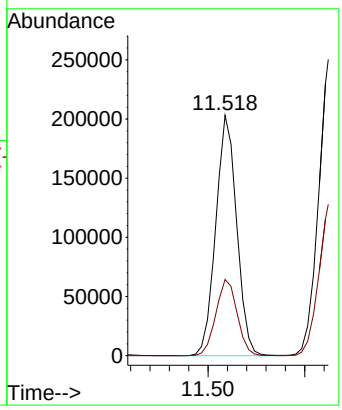




#67
Ethyl Benzene
Concen: 20.037 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 91 Resp: 30412

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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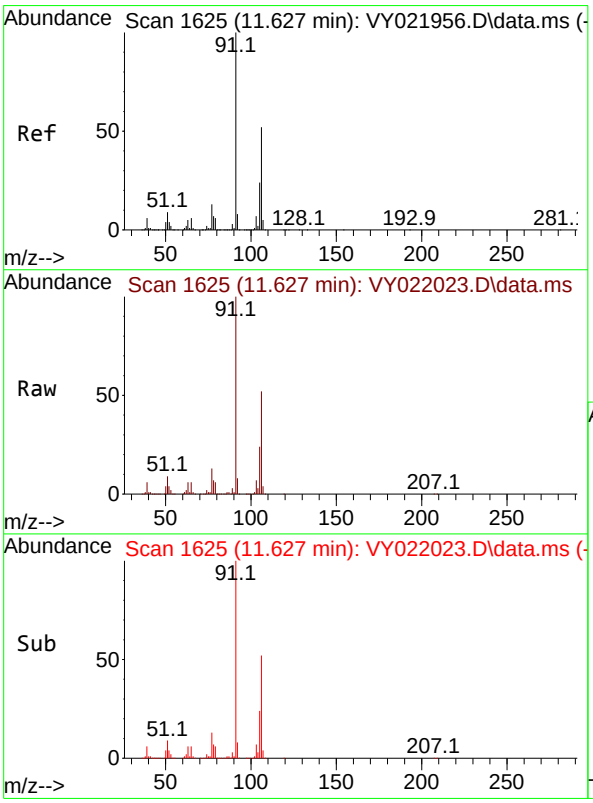
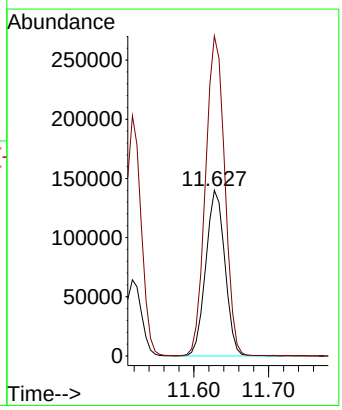
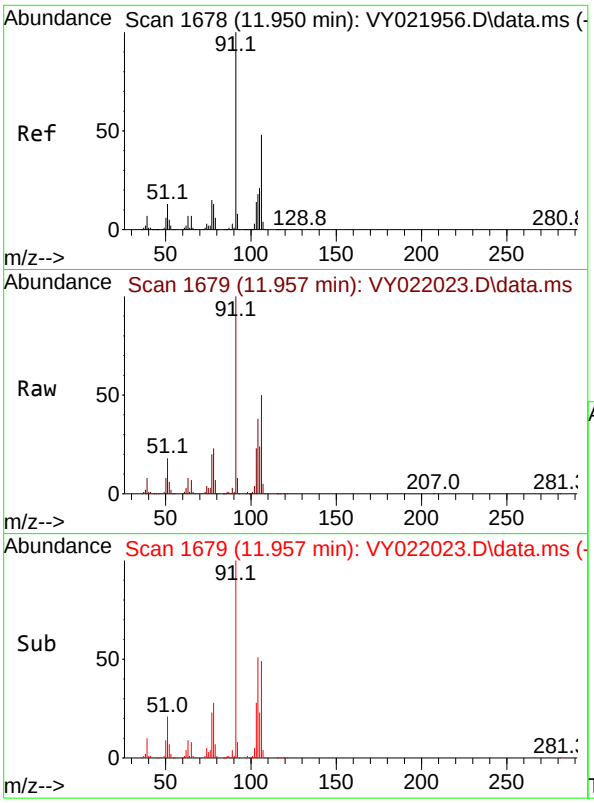


#68
m/p-Xylenes
Concen: 41.224 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:106 Resp: 248981

Ion	Ratio	Lower	Upper
106	100		
91	194.2	156.2	234.2

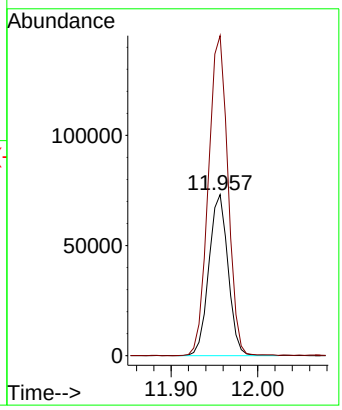




#69
o-Xylene
Concen: 20.203 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:106 Resp: 11246

Ion	Ratio	Lower	Upper
106	100		
91	203.4	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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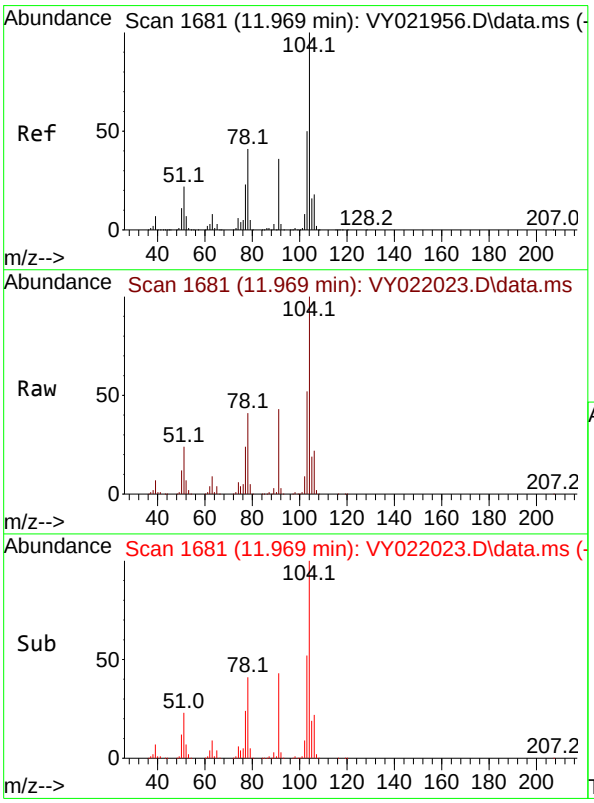
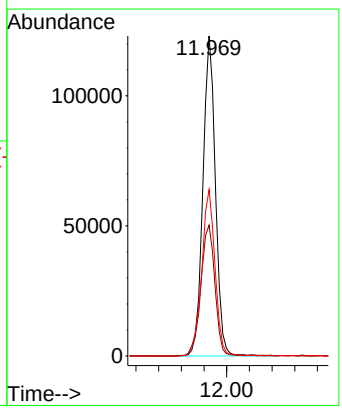
Supervised By :Mahesh Dadoda 04/29/2025

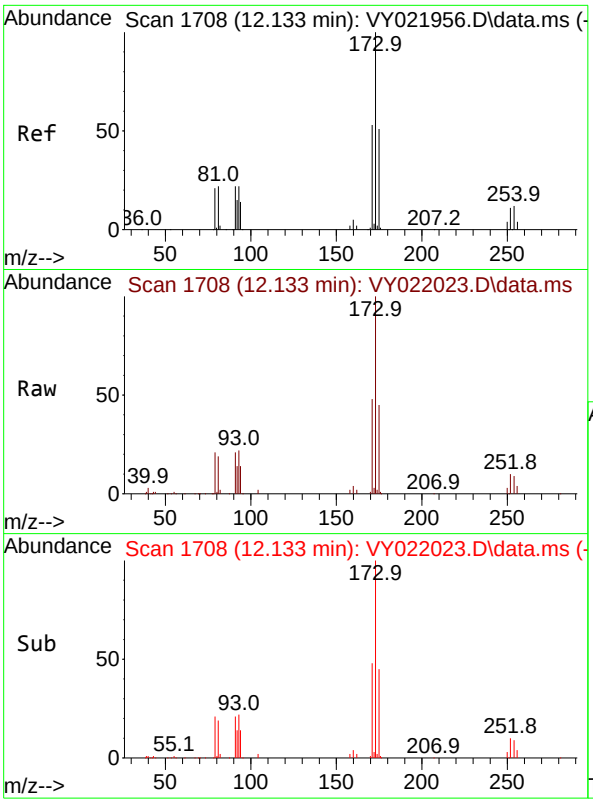


#70
Styrene
Concen: 20.189 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:104 Resp: 188696

Ion	Ratio	Lower	Upper
104	100		
78	45.7	36.6	54.8
103	55.3	43.8	65.8

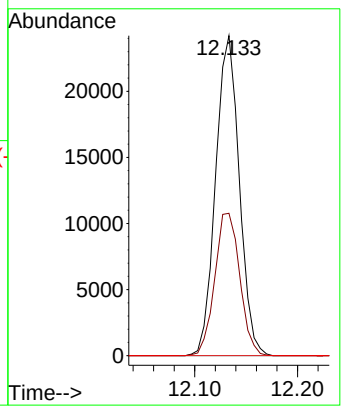




#71
Bromoform
Concen: 20.361 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:173 Resp: 3866

Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
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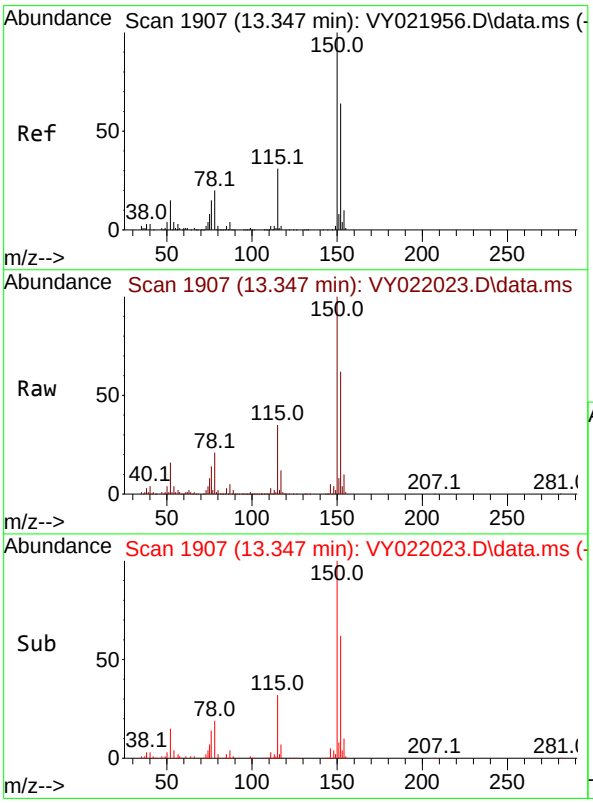
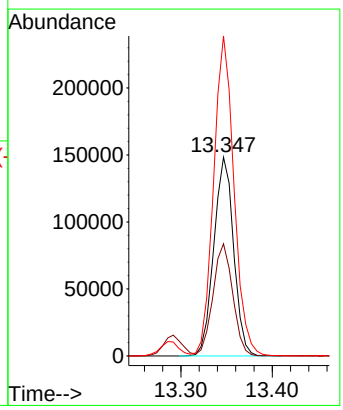
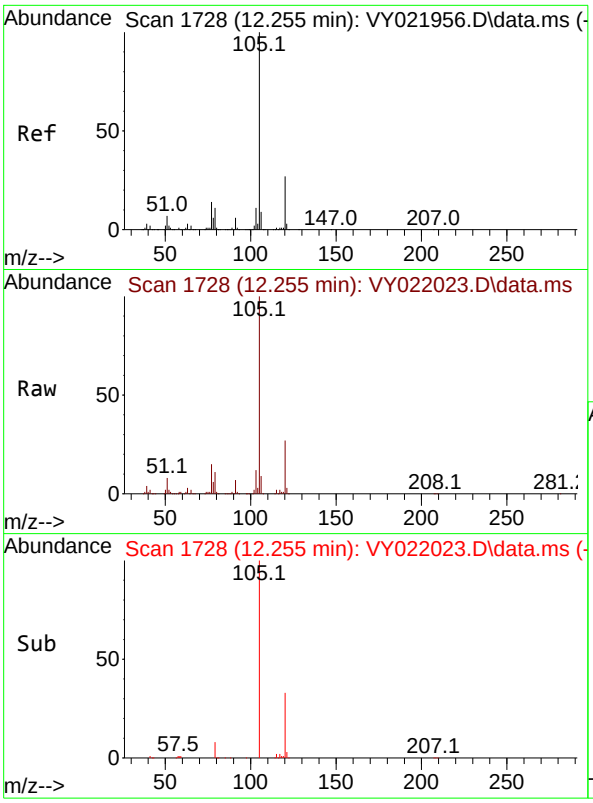


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:152 Resp: 223411

Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.0	84.0
150	165.4	0.0	345.6

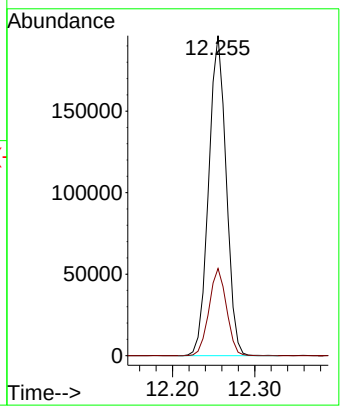




#73
Isopropylbenzene
Concen: 19.459 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:105 Resp: 29045

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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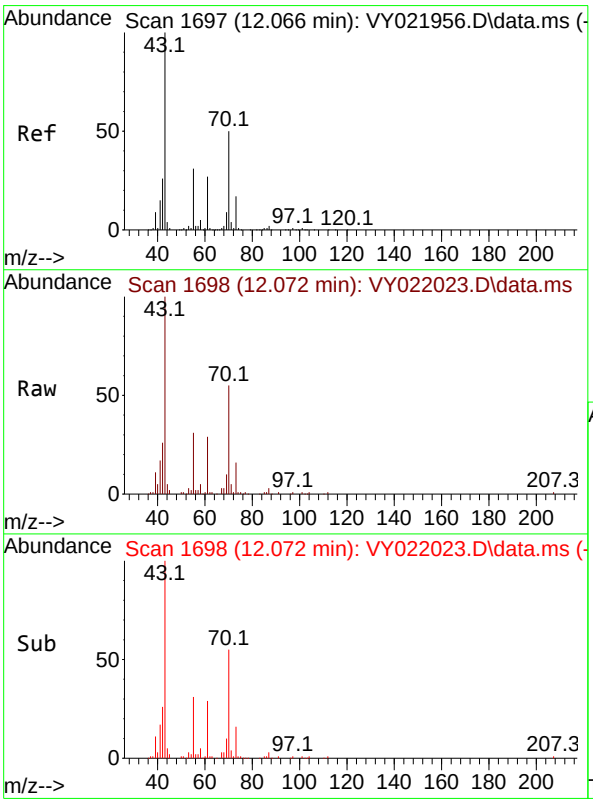
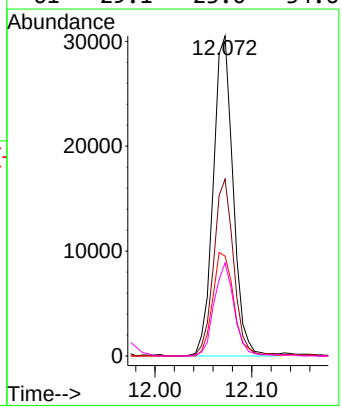
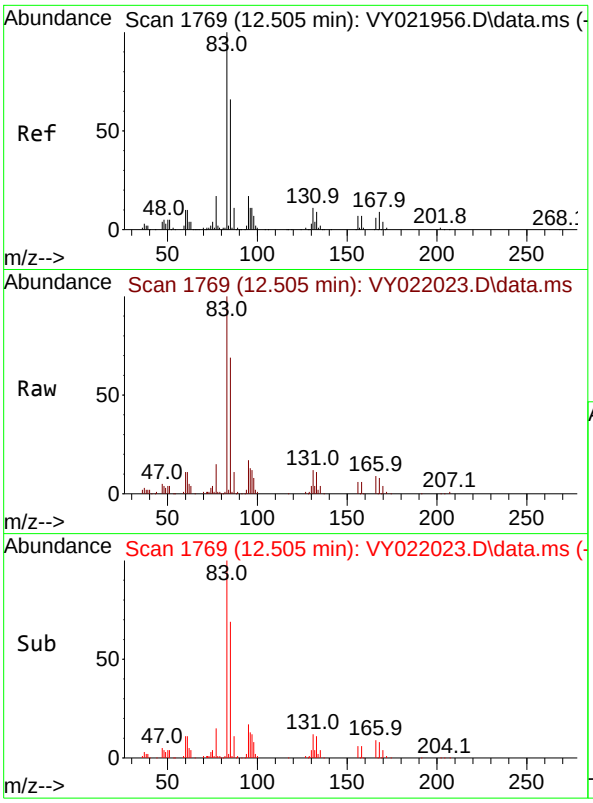


#74
N-amyl acetate
Concen: 16.983 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 43 Resp: 43553

Ion	Ratio	Lower	Upper
43	100		
70	55.2	43.2	64.8
55	34.3	25.7	38.5
61	29.1	23.0	34.6

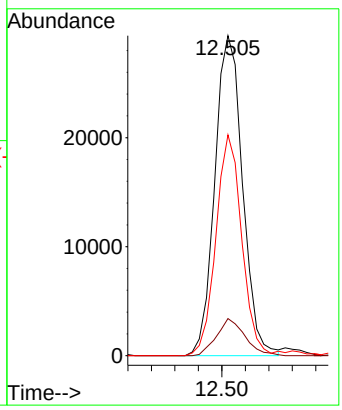




#75
1,1,2,2-Tetrachloroethane
Concen: 19.156 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 83 Resp: 4820

Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.5	16.4
85	64.5	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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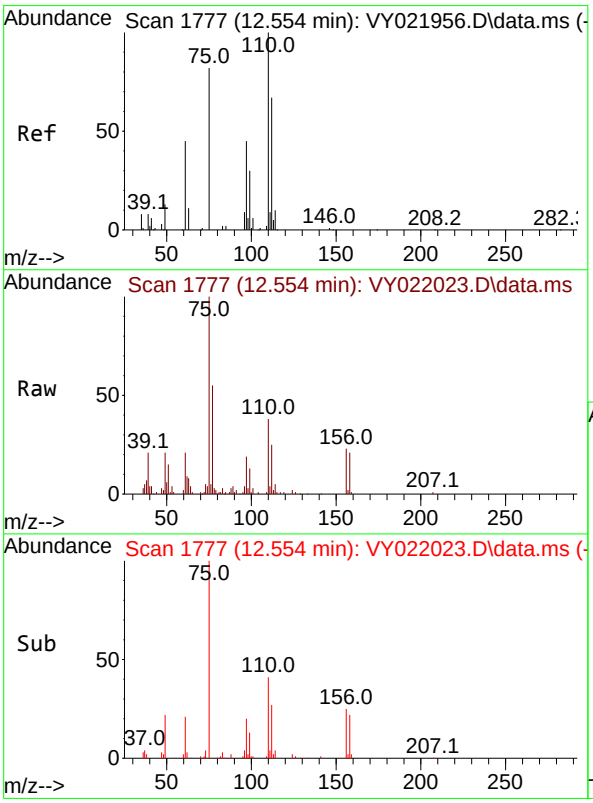
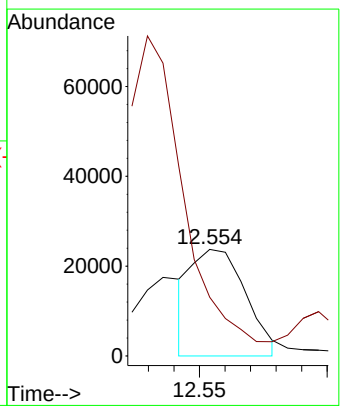
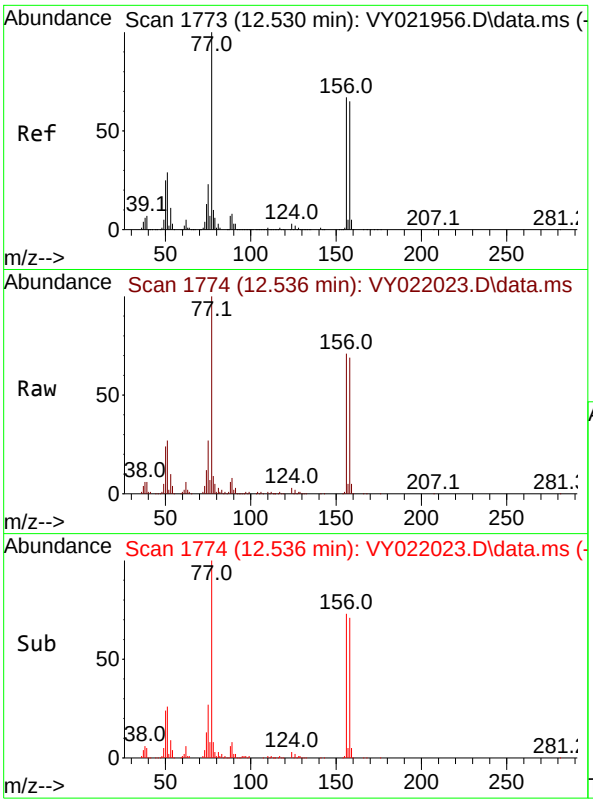


#76
1,2,3-Trichloropropane
Concen: 18.358 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 75 Resp: 35131

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

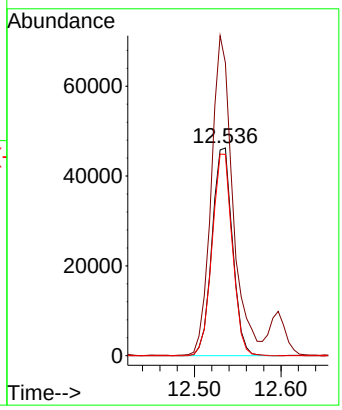




#77
Bromobenzene
Concen: 20.078 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:156 Resp: 7572

Ion	Ratio	Lower	Upper
156	100		
77	163.4	82.7	248.1
158	96.4	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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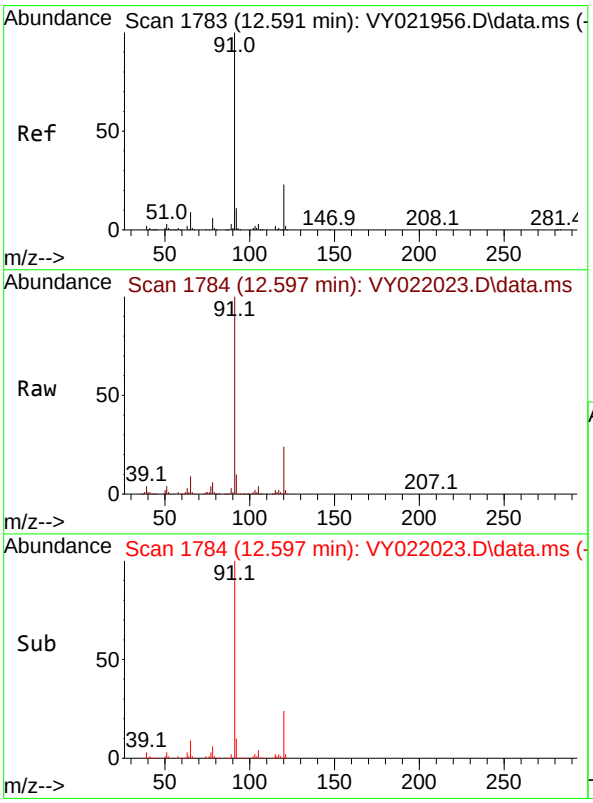
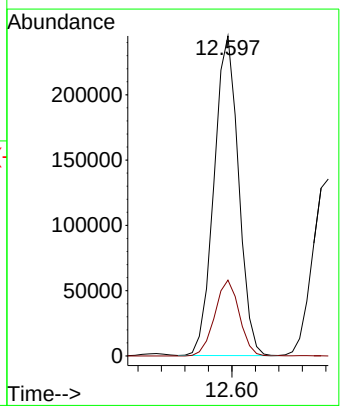
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

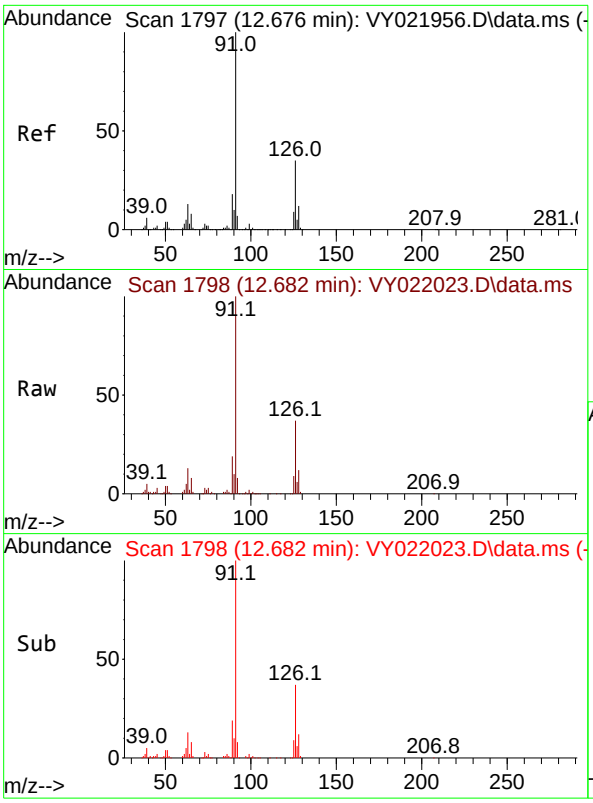


#78
n-propylbenzene
Concen: 19.960 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 91 Resp: 354794

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.9	35.5

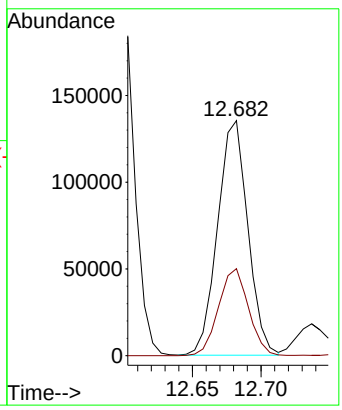




#79
2-Chlorotoluene
Concen: 20.079 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 91 Resp: 20756

Ion	Ratio	Lower	Upper
91	100		
126	36.8	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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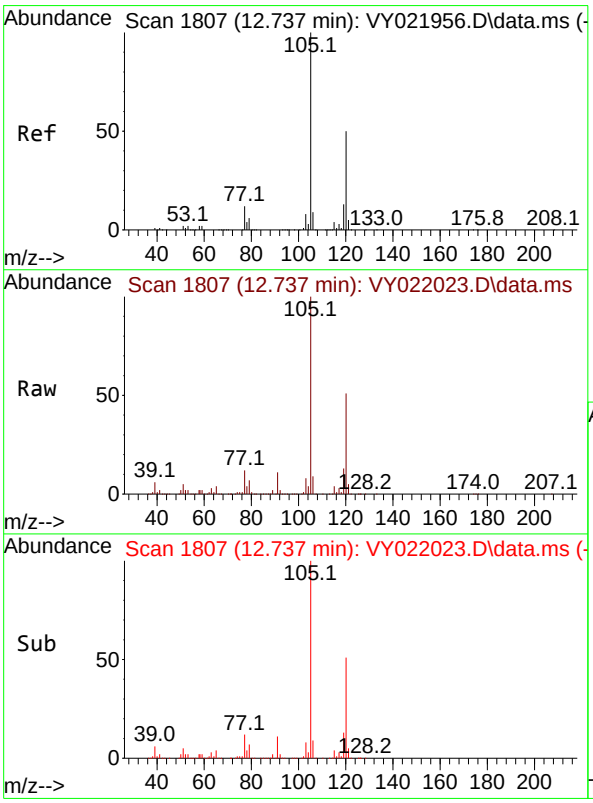
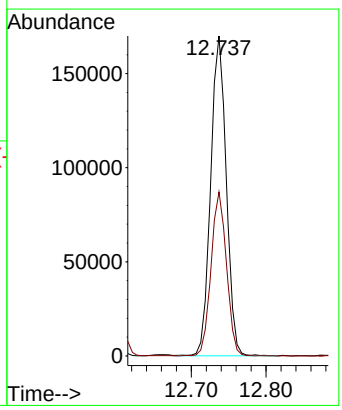
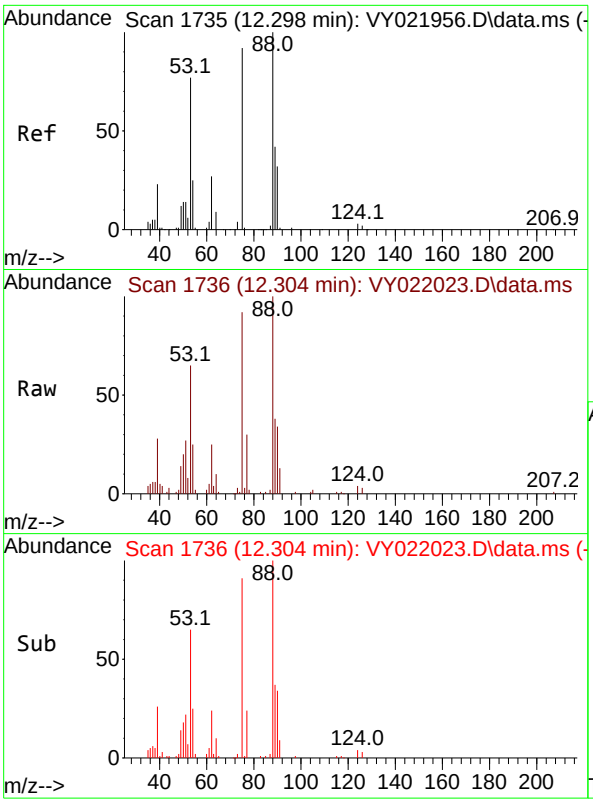


#80
1,3,5-Trimethylbenzene
Concen: 19.969 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:105 Resp: 245588

Ion	Ratio	Lower	Upper
105	100		
120	51.0	25.0	75.0

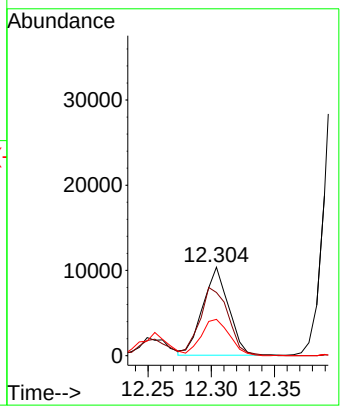




#81
trans-1,4-Dichloro-2-butene
Concen: 18.423 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 75 Resp: 1464

Ion	Ratio	Lower	Upper
75	100		
53	86.3	66.0	99.0
89	45.2	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
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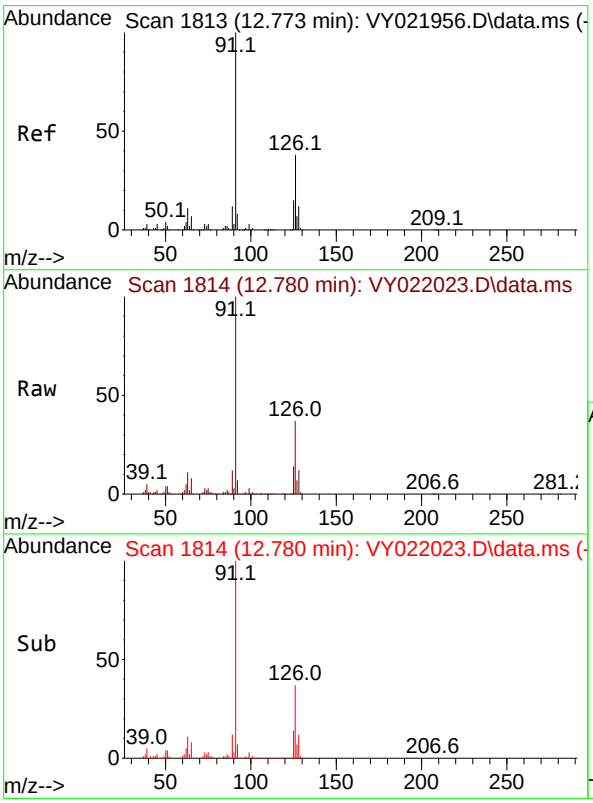
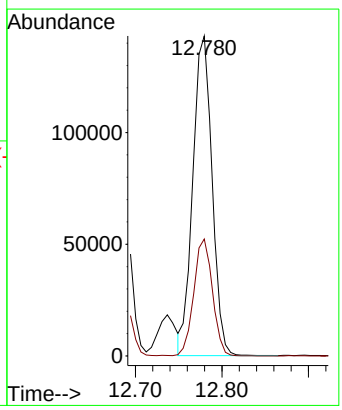
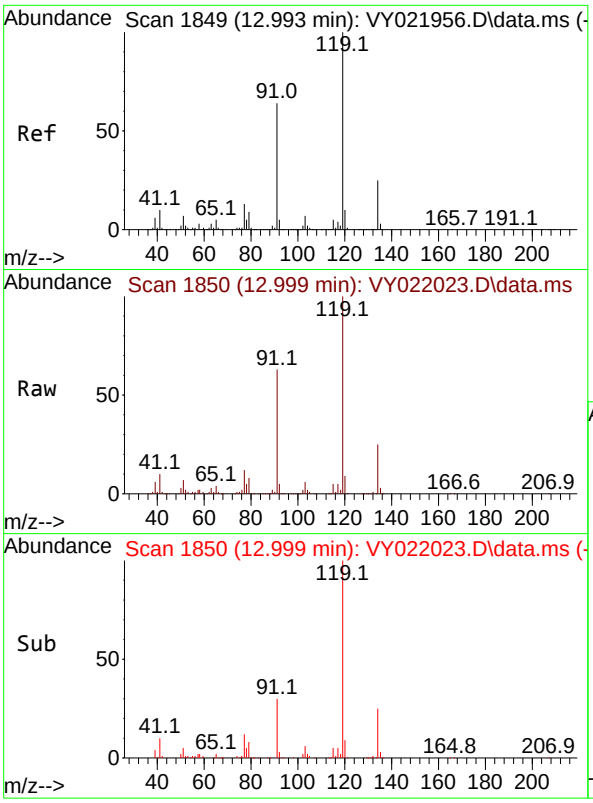


#82
4-Chlorotoluene
Concen: 20.569 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 91 Resp: 221042

Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.9	53.8

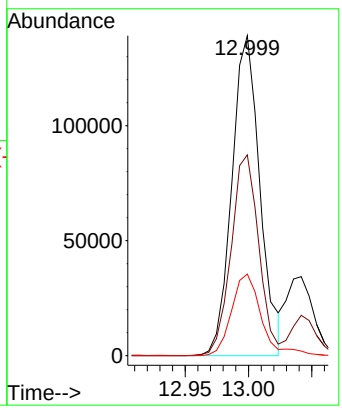




#83
tert-Butylbenzene
Concen: 19.506 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:119 Resp: 21515

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.3	90.9
134	27.1	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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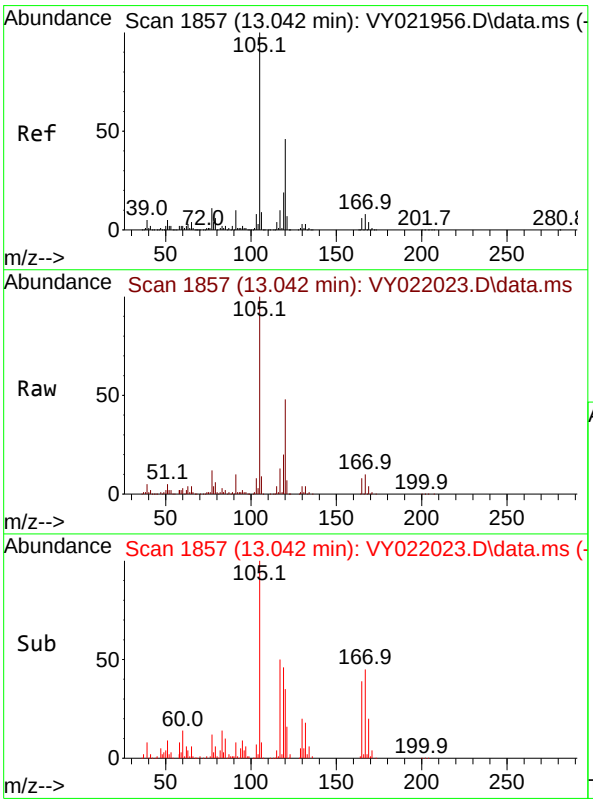
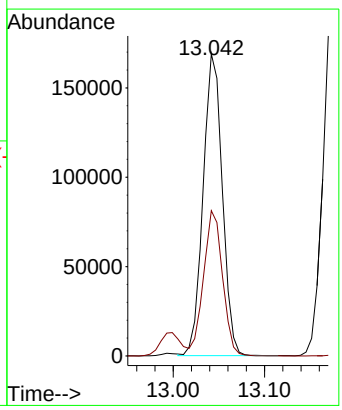
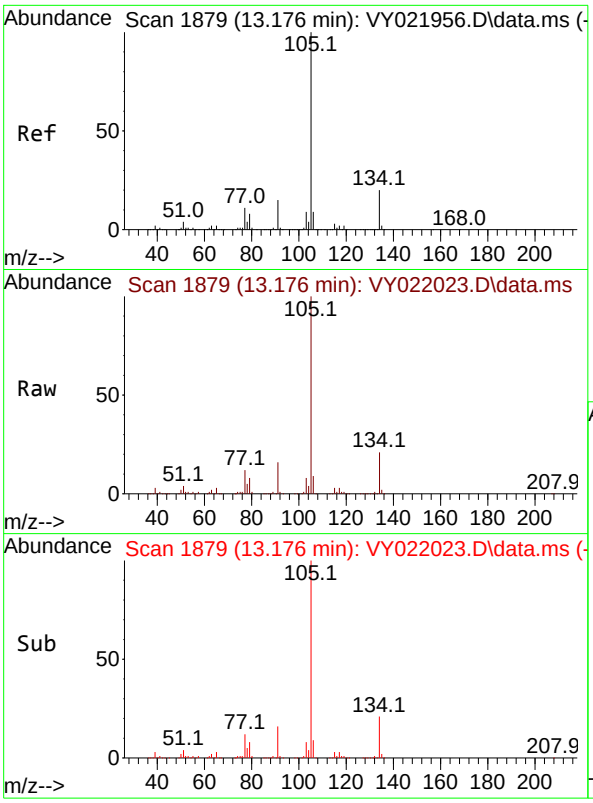


#84
1,2,4-Trimethylbenzene
Concen: 19.992 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:105 Resp: 245925

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.4	70.0

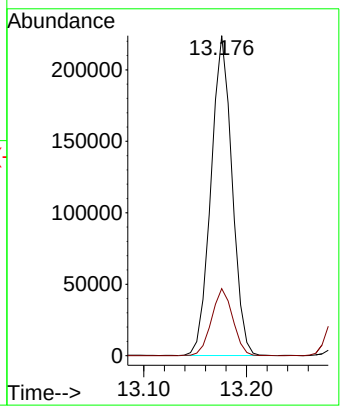




#85
sec-Butylbenzene
Concen: 19.740 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:105 Resp: 31860

Ion	Ratio	Lower	Upper
105	100		
134	21.1	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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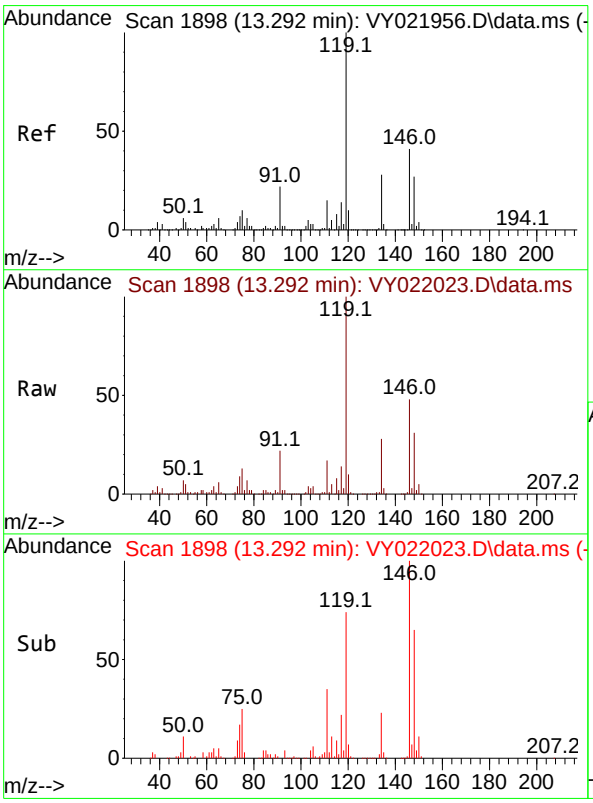
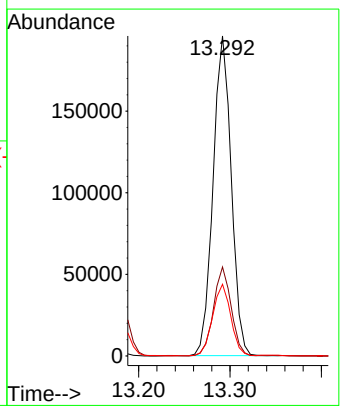
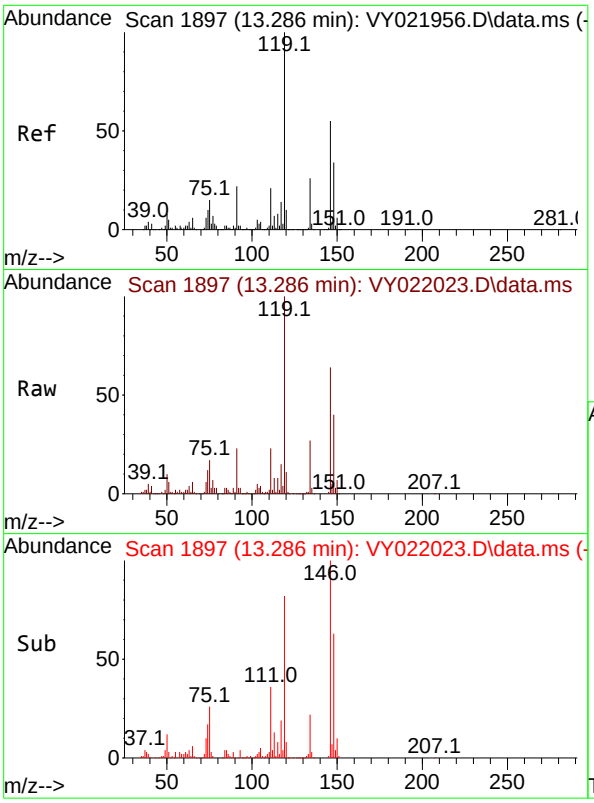


#86
p-Isopropyltoluene
Concen: 19.757 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:119 Resp: 270778

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.6	40.7
91	22.3	11.0	33.0

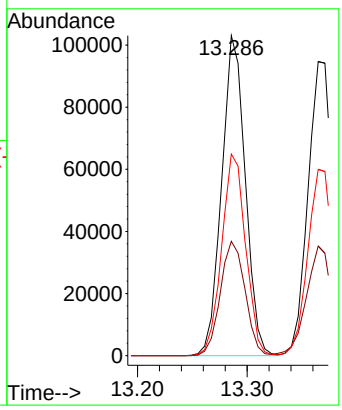




#87
1,3-Dichlorobenzene
Concen: 20.135 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:146 Resp: 15424

Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.5
148	64.0	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
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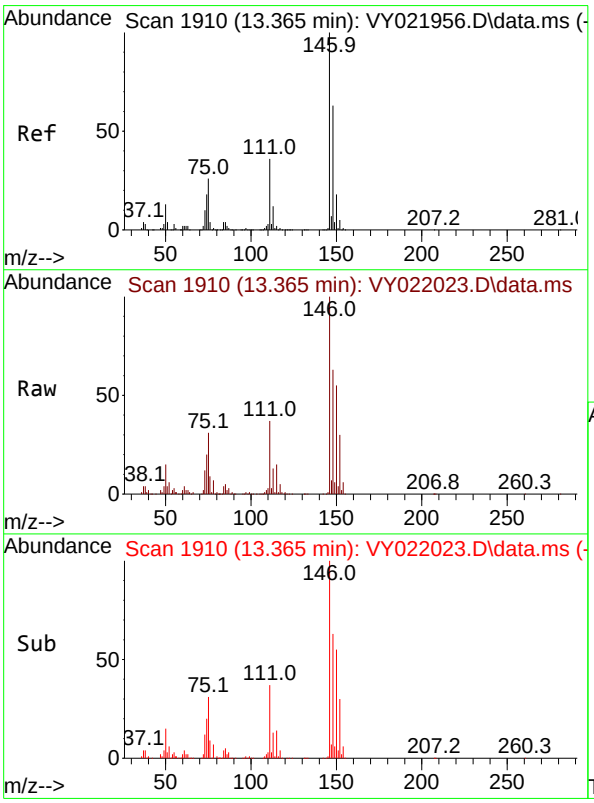
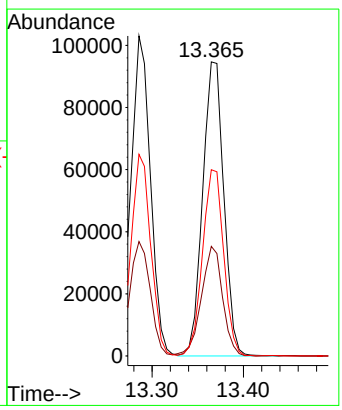
Supervised By :Mahesh Dadoda 04/29/2025

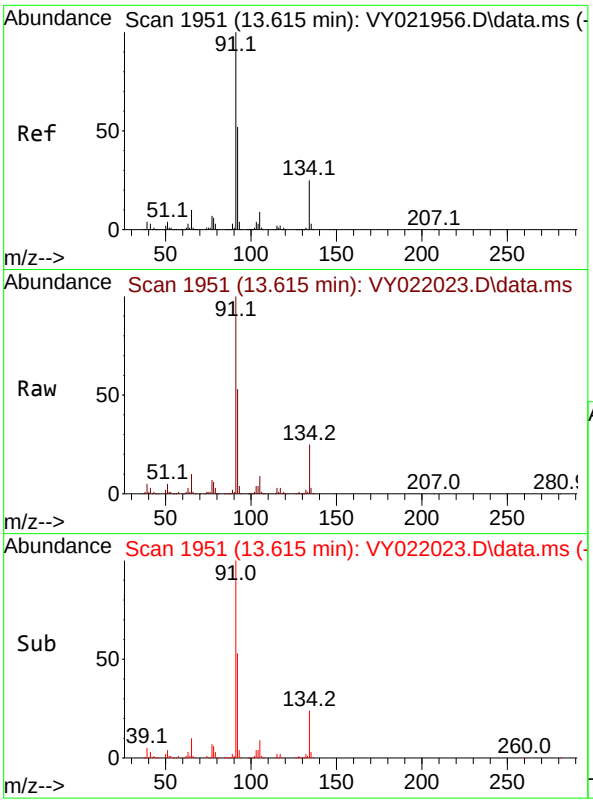


#88
1,4-Dichlorobenzene
Concen: 20.025 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:146 Resp: 151928

Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.2	57.6
148	63.5	32.0	96.0

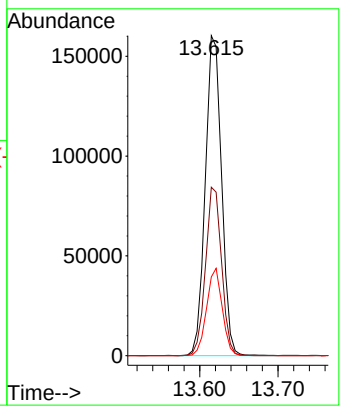




#89
n-Butylbenzene
Concen: 18.871 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 91 Resp: 23117

Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.5	79.5
134	26.3	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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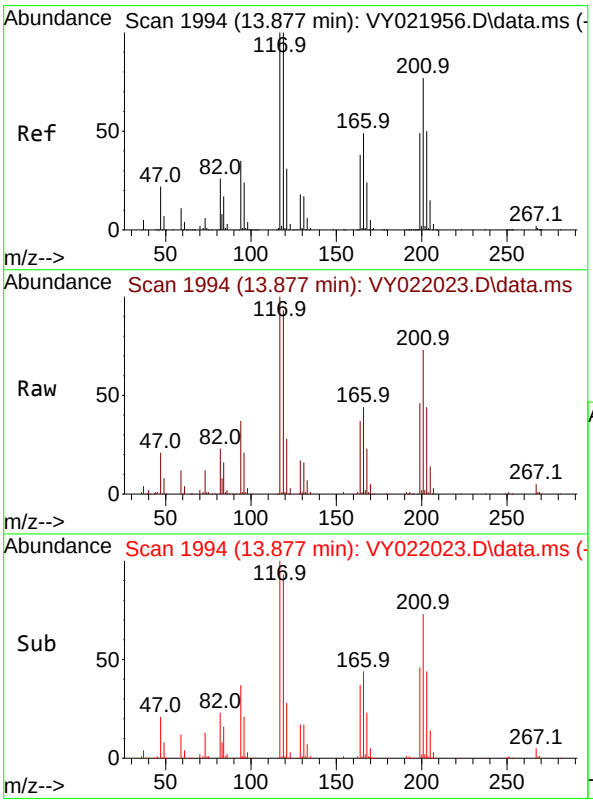
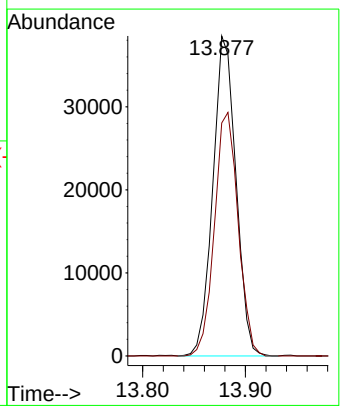
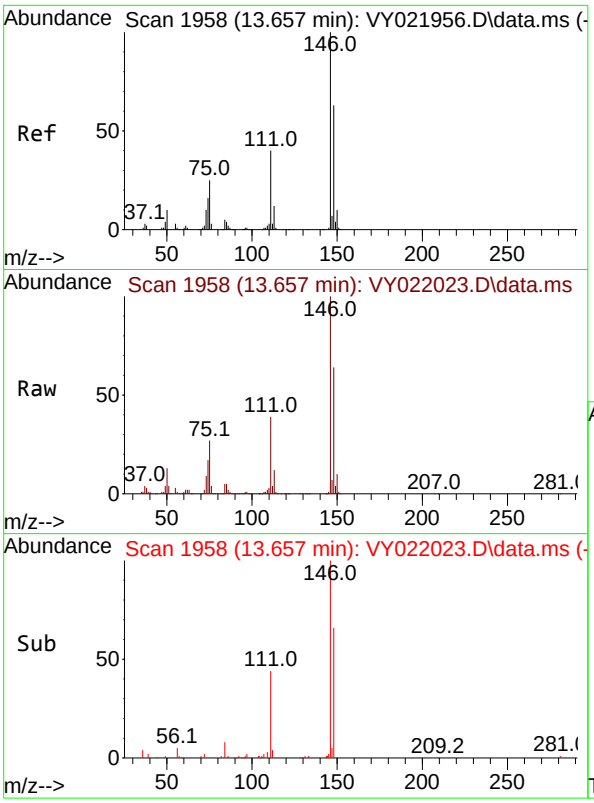


#90
Hexachloroethane
Concen: 19.932 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:117 Resp: 60020

Ion	Ratio	Lower	Upper
117	100		
201	78.0	38.7	116.1

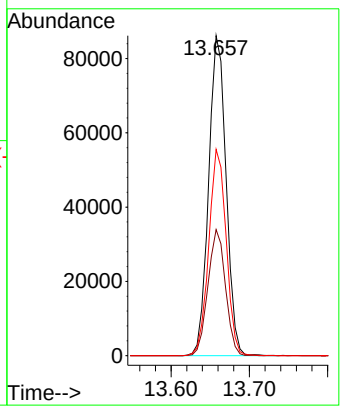




#91
1,2-Dichlorobenzene
Concen: 19.923 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:146 Resp: 13311

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.7	59.1
148	64.3	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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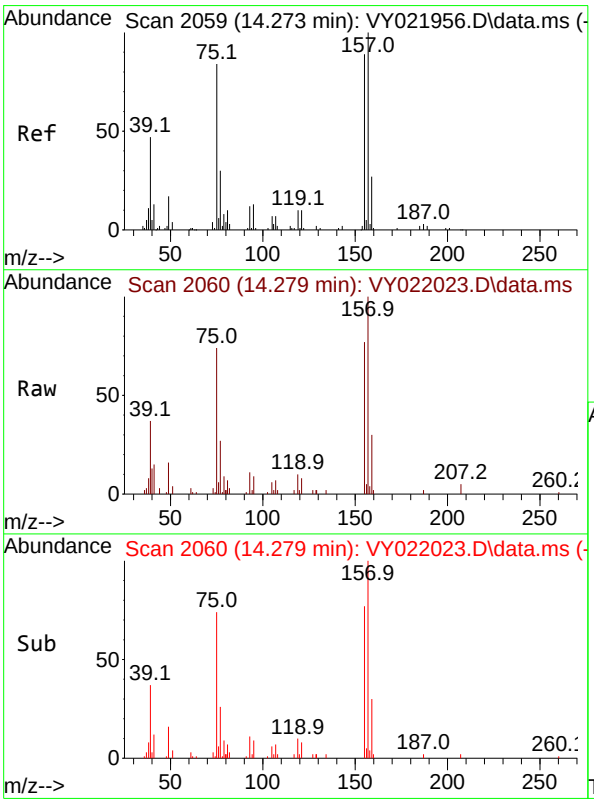
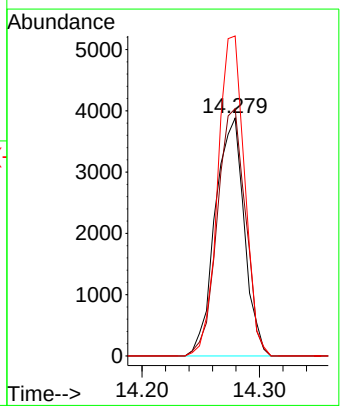
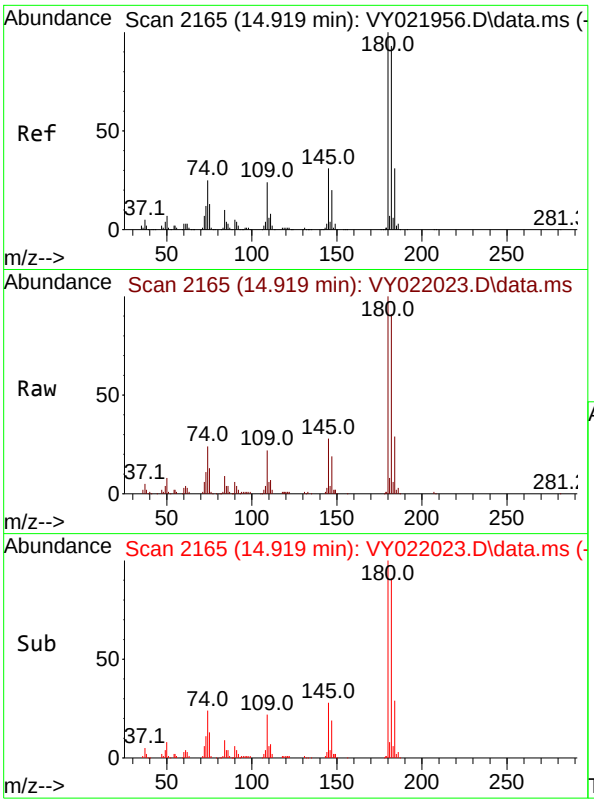


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.675 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion: 75 Resp: 6676

Ion	Ratio	Lower	Upper
75	100		
155	100.9	50.7	152.3
157	123.7	62.6	187.8

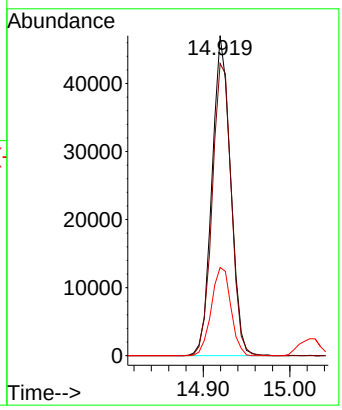




#93
1,2,4-Trichlorobenzene
Concen: 18.477 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:180 Resp: 6995

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.1	141.4
145	28.9	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

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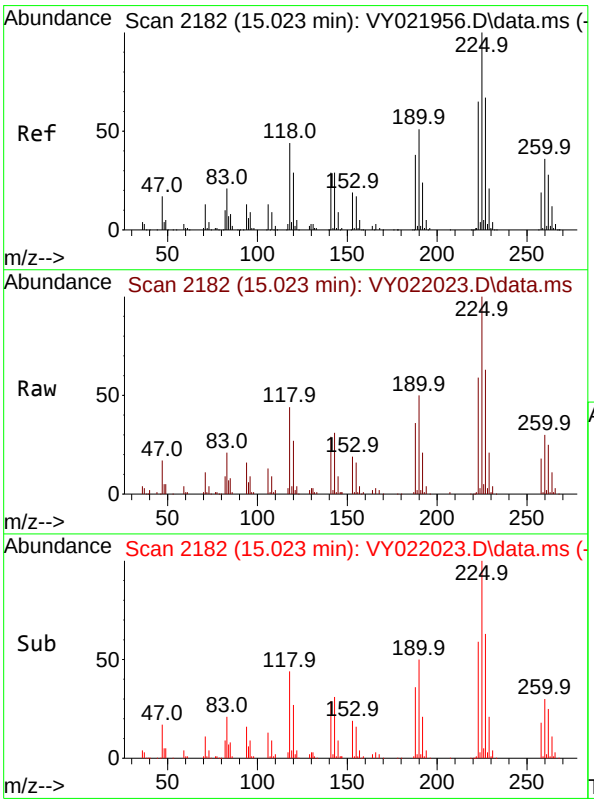
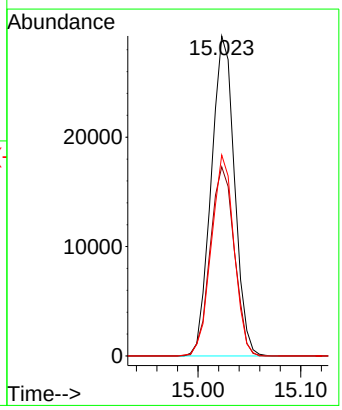
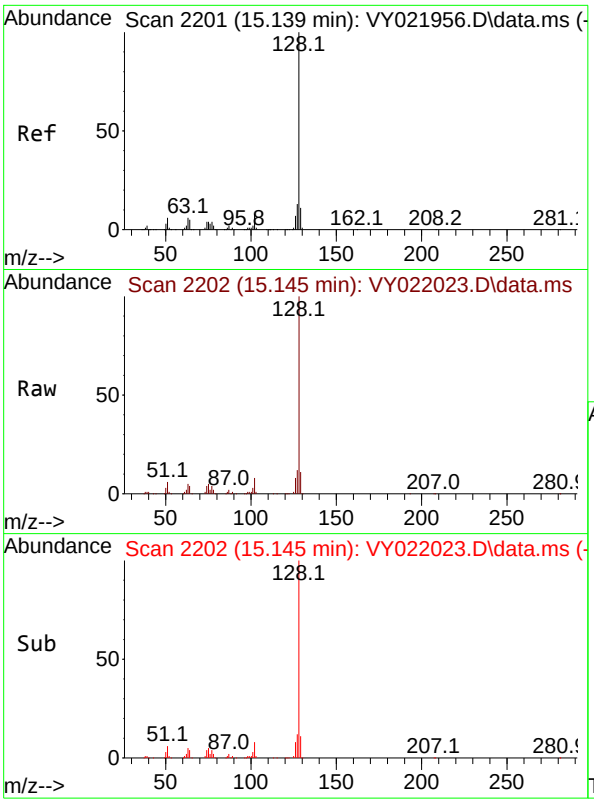


#94
Hexachlorobutadiene
Concen: 19.759 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:225 Resp: 46027

Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.9	95.5
227	61.1	32.3	96.9

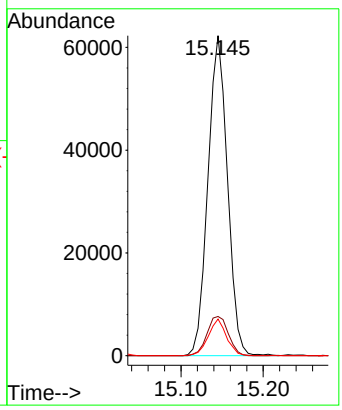




#95
Naphthalene
Concen: 16.331 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:128 Resp: 10270

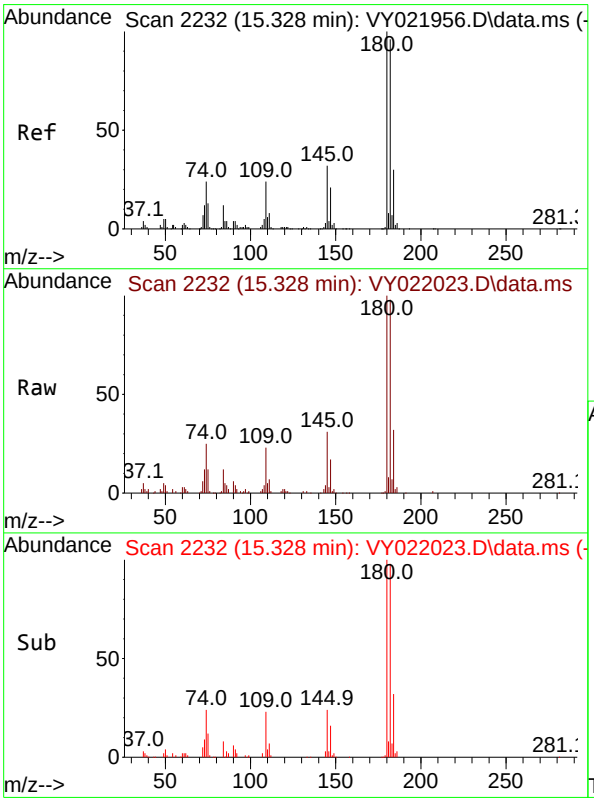
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	10.7	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBS01

Manual Integrations
APPROVED

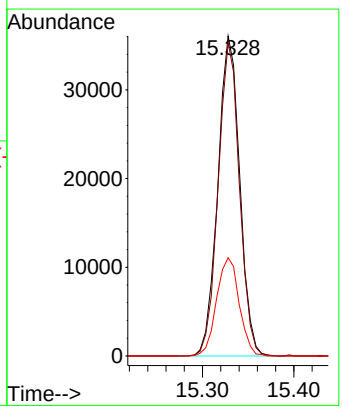
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.375 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022023.D
Acq: 28 Apr 2025 11:40

Tgt Ion:180 Resp: 60052

Ion	Ratio	Lower	Upper
180	100		
182	95.1	48.1	144.4
145	31.7	16.0	48.0



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022048.D	1		04/29/25 10:31	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.0		0.79	5.00	ug/Kg
141-78-6	Ethyl Acetate	18.3		1.30	5.00	ug/Kg
108-21-4	Isopropyl Acetate	18.2		0.91	5.00	ug/Kg
74-83-9	Bromomethane	19.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.9		1.30	5.00	ug/Kg
109-99-9	Tetrahydrofuran	88.8		4.70	25.0	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	88.5		13.7	25.0	ug/Kg
60-29-7	Diethyl Ether	18.8		0.77	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.8		1.00	5.00	ug/Kg
107-02-8	Acrolein	88.6		8.80	25.0	ug/Kg
107-13-1	Acrylonitrile	92.4		5.00	25.0	ug/Kg
67-64-1	Acetone	87.0		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.5		0.86	5.00	ug/Kg
108-05-4	Vinyl Acetate	91.2		4.90	25.0	ug/Kg
75-34-3	1,1-Dichloroethane	19.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	88.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.97	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	19.8		1.30	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.1		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.0		0.84	5.00	ug/Kg

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022048.D	1		04/29/25 10:31	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
71-55-6	1,1,1-Trichloroethane	19.9		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.2		0.91	5.00	ug/Kg
563-58-6	1,1-Dichloropropene	19.6		0.87	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.2		0.91	5.00	ug/Kg
74-95-3	Dibromomethane	19.6		0.89	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.1		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	91.1		3.60	25.0	ug/Kg
80-62-6	Methyl methacrylate	17.5		0.74	5.00	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.0		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	20.1		0.92	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	19.9		0.68	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	91.2		3.80	25.0	ug/Kg
591-78-6	2-Hexanone	87.0		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.8		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.91	5.00	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	20.1		0.77	5.00	ug/Kg
67-72-1	Hexachloroethane	19.5		1.10	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.20	10.0	ug/Kg
1330-20-7	Total Xylenes	59.4		2.02	15.0	ug/Kg
95-47-6	o-Xylene	19.2		0.82	5.00	ug/Kg
100-42-5	Styrene	19.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022048.D	1		04/29/25 10:31	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.20	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	18.9		1.20	5.00	ug/Kg
108-86-1	Bromobenzene	19.7		1.20	5.00	ug/Kg
103-65-1	n-propylbenzene	19.6		0.73	5.00	ug/Kg
95-49-8	2-Chlorotoluene	19.6		0.68	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19.5		0.82	5.00	ug/Kg
106-43-4	4-Chlorotoluene	19.9		1.20	5.00	ug/Kg
98-06-6	tert-Butylbenzene	18.9		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	19.6		0.64	5.00	ug/Kg
135-98-8	sec-Butylbenzene	19.6		0.66	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	19.4		0.62	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.5		1.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	18.2		1.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		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	18.3		3.00	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	18.7		1.90	5.00	ug/Kg
91-20-3	Naphthalene	16.0		2.60	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.3		3.20	5.00	ug/Kg
628-63-7	N-amyl acetate	16.7		0.97	5.00	ug/Kg
74-88-4	Methyl Iodide	18.5		0.91	5.00	ug/Kg
107-05-1	Allyl chloride	19.0		0.78	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	18.6		1.10	5.00	ug/Kg
126-98-7	Methacrylonitrile	18.6		1.80	5.00	ug/Kg
108-20-3	Diisopropyl ether	19.7		0.55	5.00	ug/Kg
123-91-1	1,4-Dioxane	360		48.1	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0429SBS01	SDG No.:	Q1872
Lab Sample ID:	VY0429SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022048.D	1		04/29/25 10:31	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	49.6		38 - 136	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 - 134	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	295000	7.707			
540-36-3	1,4-Difluorobenzene	456000	8.616			
3114-55-4	Chlorobenzene-d5	411000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	221000	13.347			

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\VY042925\
Data File : VY022048.D
Acq On : 29 Apr 2025 10:31
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 01:32:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	295160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	455592	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	411306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	220609	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	131819	48.350	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.700%			
35) Dibromofluoromethane	7.634	113	150994	50.166	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.340%			
50) Toluene-d8	10.103	98	577886	50.927	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.860%			
62) 4-Bromofluorobenzene	12.408	95	189577	49.628	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	48376	19.235	ug/l	98
3) Chloromethane	2.068	50	72643	20.285	ug/l	99
4) Vinyl Chloride	2.202	62	83728	19.026	ug/l	98
5) Bromomethane	2.592	94	73982	19.513	ug/l	93
6) Chloroethane	2.733	64	56577	18.877	ug/l	94
7) Trichlorofluoromethane	3.056	101	112658	19.414	ug/l	99
8) Diethyl Ether	3.452	74	28383	18.792	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	61809	19.635	ug/l	98
10) Methyl Iodide	4.001	142	67410	18.495	ug/l	99
11) Tert butyl alcohol	4.879	59	13239	88.452	ug/l #	70
12) 1,1-Dichloroethene	3.787	96	58076	19.793	ug/l	97
13) Acrolein	3.659	56	23798	88.588	ug/l	98
14) Allyl chloride	4.385	41	64847	18.980	ug/l	99
15) Acrylonitrile	5.061	53	51099	92.413	ug/l	98
16) Acetone	3.873	43	36017	87.002	ug/l	92
17) Carbon Disulfide	4.104	76	183149	19.576	ug/l	100
18) Methyl Acetate	4.385	43	26368	20.705	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	120380	18.330	ug/l	95
20) Methylene Chloride	4.610	84	64582	18.734	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	64140	19.519	ug/l	97
22) Diisopropyl ether	6.019	45	149424	19.653	ug/l	97
23) Vinyl Acetate	5.958	43	373500	91.151	ug/l	99
24) 1,1-Dichloroethane	5.915	63	101522	19.263	ug/l	98
25) 2-Butanone	6.897	43	54911	88.358	ug/l	97
26) 2,2-Dichloropropane	6.884	77	91600	19.830	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	72039	19.606	ug/l	98
28) Bromochloromethane	7.244	49	39029	19.066	ug/l	98
29) Tetrahydrofuran	7.262	42	35848	88.815	ug/l	99
30) Chloroform	7.421	83	117036	20.020	ug/l	97
31) Cyclohexane	7.701	56	84220	18.687	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	105143	19.880	ug/l	99
36) 1,1-Dichloropropene	7.835	75	79075	19.558	ug/l	99
37) Ethyl Acetate	6.982	43	26628	18.338	ug/l	98
38) Carbon Tetrachloride	7.817	117	98218	20.330	ug/l	99
39) Methylcyclohexane	9.110	83	92537	18.187	ug/l	94
40) Benzene	8.079	78	254772	20.158	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022048.D
Acq On : 29 Apr 2025 10:31
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 01:32:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	14741m	18.571	ug/l		
42) 1,2-Dichloroethane	8.158	62	62360	19.929	ug/l		99
43) Isopropyl Acetate	8.195	43	50732	18.193	ug/l		98
44) Trichloroethene	8.866	130	71028	20.290	ug/l		95
45) 1,2-Dichloropropane	9.140	63	56441	20.194	ug/l		98
46) Dibromomethane	9.231	93	34280	19.593	ug/l		98
47) Bromodichloromethane	9.420	83	87710	20.067	ug/l		100
48) Methyl methacrylate	9.219	41	22602	17.533	ug/l		93
49) 1,4-Dioxane	9.225	88	6627	355.374	ug/l		92
51) 4-Methyl-2-Pentanone	10.000	43	133241	91.148	ug/l		100
52) Toluene	10.170	92	164777	20.141	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	71271	19.011	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	85968	19.290	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	47069	20.140	ug/l		98
56) Ethyl methacrylate	10.439	69	47072	17.613	ug/l		97
57) 1,3-Dichloropropane	10.719	76	74505	19.886	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	119153	91.185	ug/l		98
59) 2-Hexanone	10.762	43	83877	86.992	ug/l		98
60) Dibromochloromethane	10.908	129	64371	19.894	ug/l		98
61) 1,2-Dibromoethane	11.018	107	43629	19.774	ug/l		100
64) Tetrachloroethene	10.646	164	81253	20.941	ug/l		98
65) Chlorobenzene	11.444	112	182043	19.792	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	64950	20.058	ug/l		98
67) Ethyl Benzene	11.518	91	292538	19.443	ug/l		99
68) m/p-Xylenes	11.627	106	240556	40.178	ug/l		100
69) o-Xylene	11.957	106	105800	19.172	ug/l		99
70) Styrene	11.969	104	183180	19.770	ug/l		100
71) Bromoform	12.133	173	36552	19.415	ug/l	#	100
73) Isopropylbenzene	12.255	105	281901	19.126	ug/l		99
74) N-amyl acetate	12.072	43	42199	16.664	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	47578	19.146	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	35659m	18.871	ug/l		
77) Bromobenzene	12.530	156	73239	19.665	ug/l		99
78) n-propylbenzene	12.597	91	344311	19.616	ug/l		100
79) 2-Chlorotoluene	12.682	91	200069	19.600	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	237244	19.536	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	14562	18.558	ug/l		97
82) 4-Chlorotoluene	12.780	91	210828	19.868	ug/l		98
83) tert-Butylbenzene	12.999	119	206168	18.929	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	238254	19.614	ug/l		99
85) sec-Butylbenzene	13.176	105	311925	19.572	ug/l		100
86) p-Isopropyltoluene	13.292	119	262713	19.412	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	148080	19.576	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	145893	19.474	ug/l		99
89) n-Butylbenzene	13.621	91	220728	18.247	ug/l		99
90) Hexachloroethane	13.877	117	58056	19.525	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	128956	19.546	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6879	17.400	ug/l		93
93) 1,2,4-Trichlorobenzene	14.919	180	68247	18.255	ug/l		99
94) Hexachlorobutadiene	15.023	225	43083	18.730	ug/l		99
95) Naphthalene	15.145	128	99146	15.964	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	59189	18.341	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022048.D
Acq On : 29 Apr 2025 10:31
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 01:32:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

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\VY042925\
Data File : VY022048.D
Acq On : 29 Apr 2025 10:31
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 30 01:32:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations APPROVED

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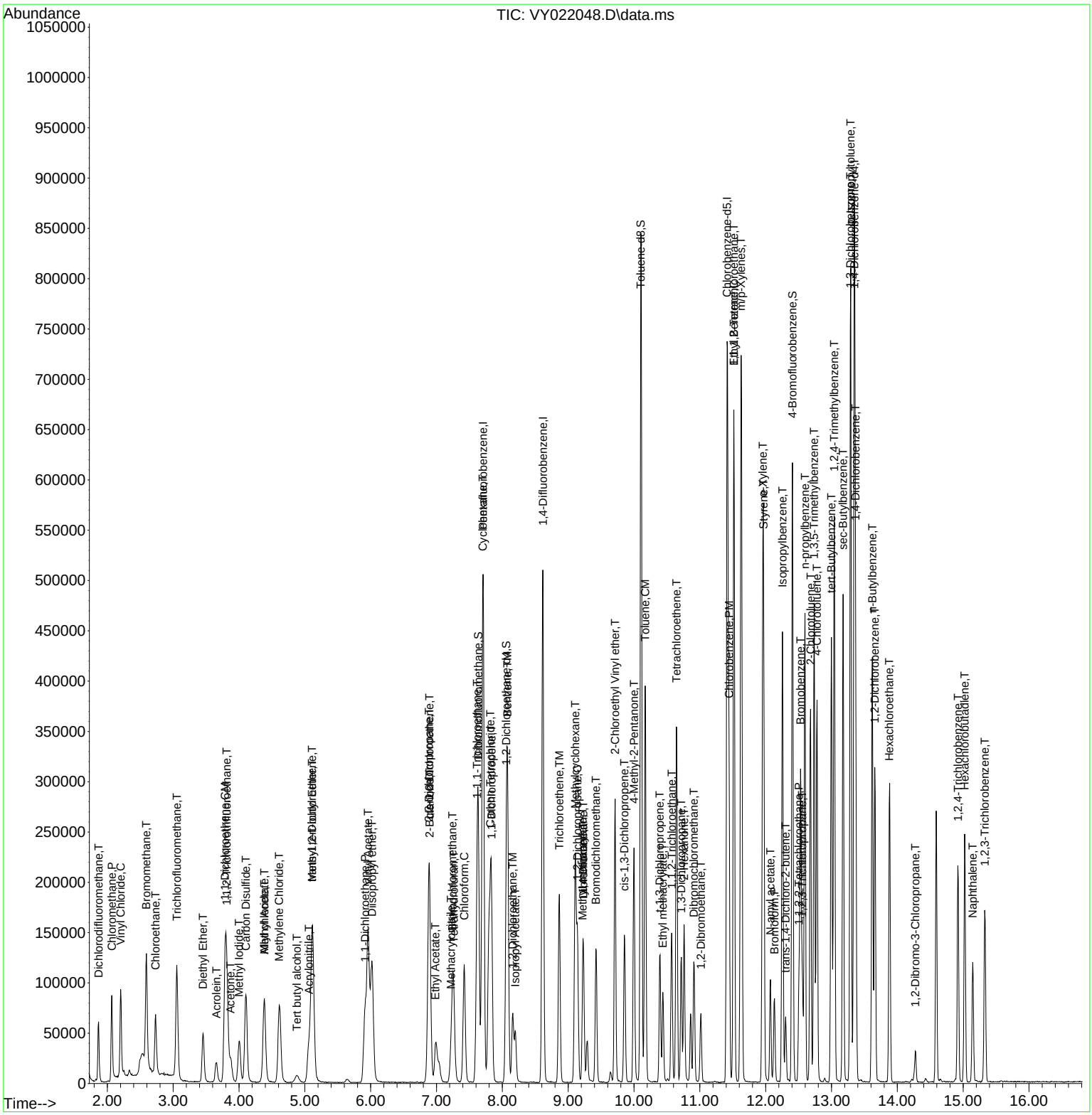
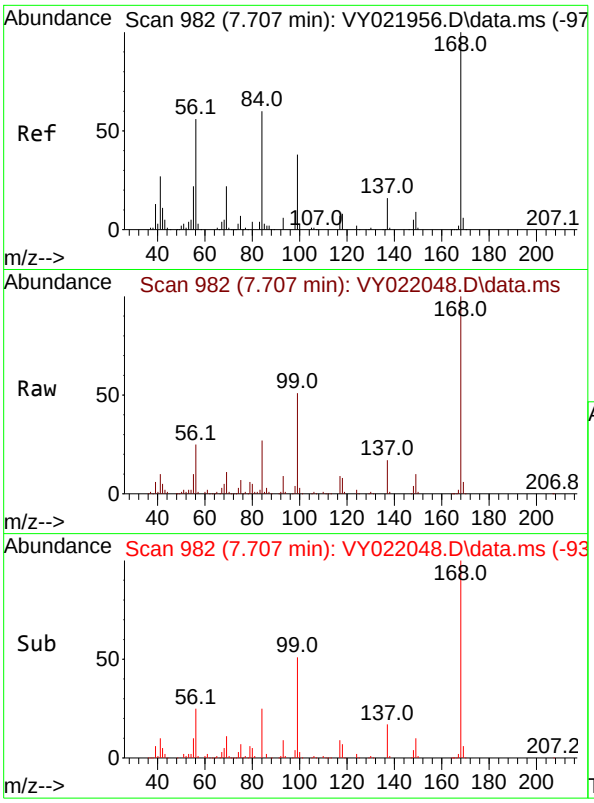
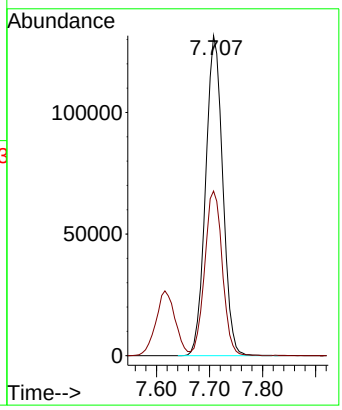




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:168 Resp: 29516

Ion	Ratio	Lower	Upper
168	100		
99	51.3	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
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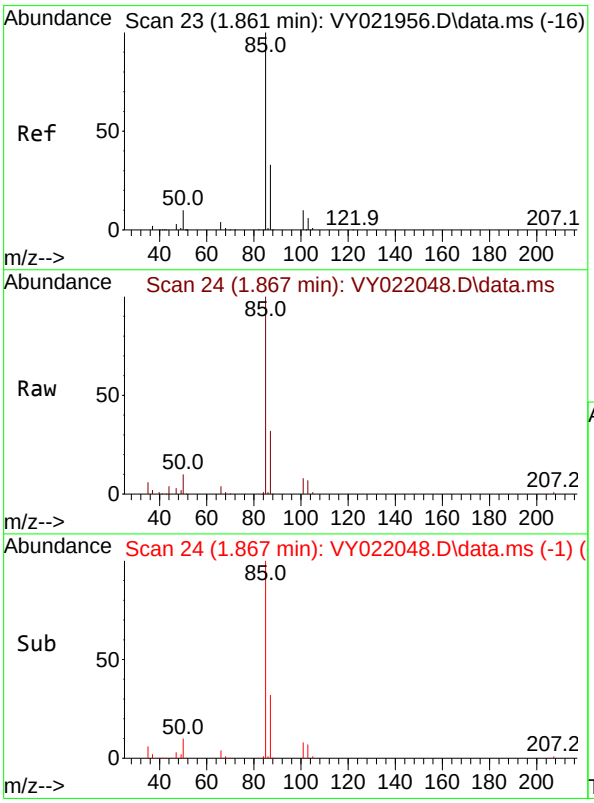
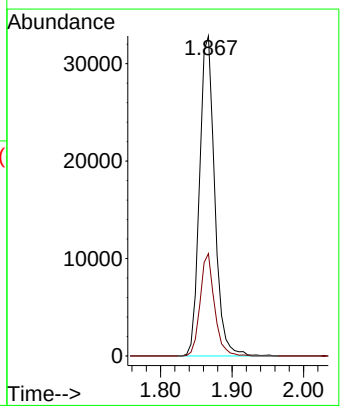
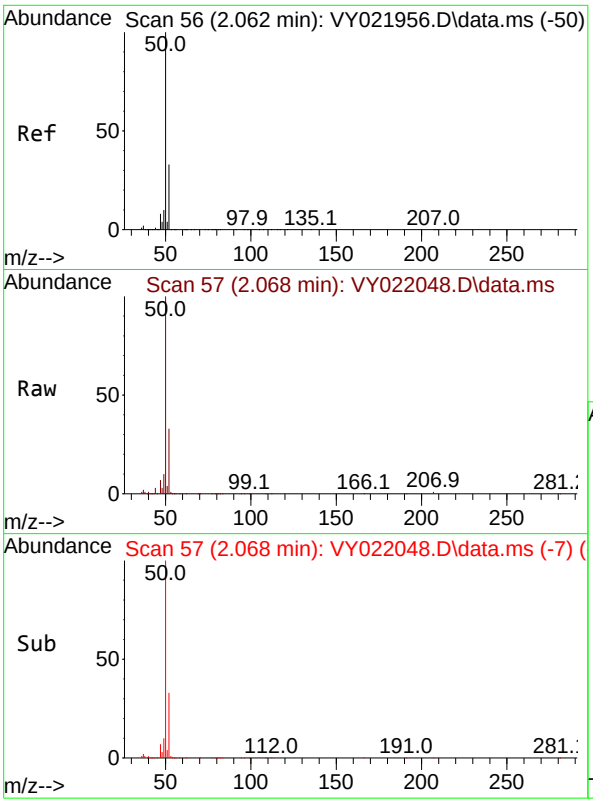


#2
Dichlorodifluoromethane
Concen: 19.235 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 85 Resp: 48376

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.6	49.7

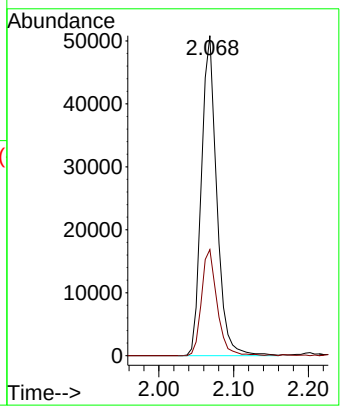




#3
Chloromethane
Concen: 20.285 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 50 Resp: 7264

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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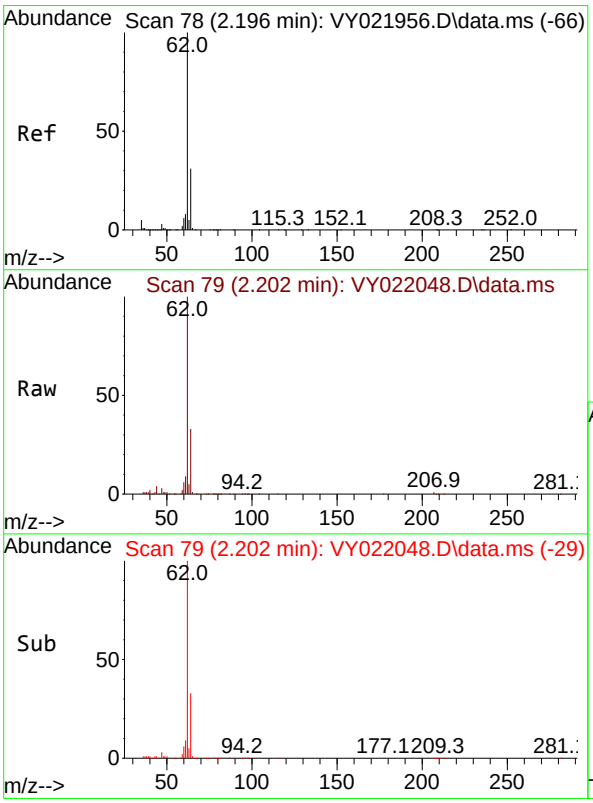
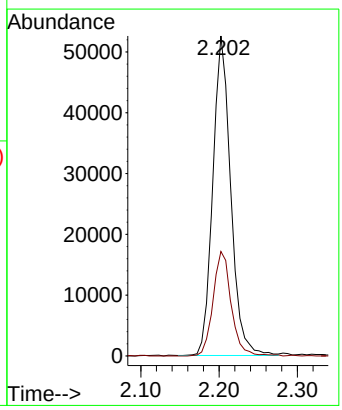
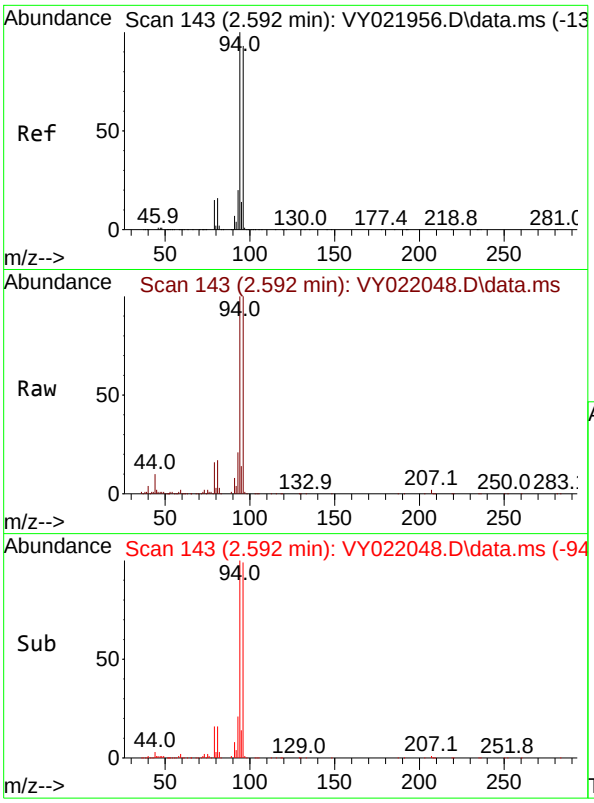


#4
Vinyl Chloride
Concen: 19.026 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 62 Resp: 83728

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.1	37.7





#5
Bromomethane
Concen: 19.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 94 Resp: 7398

Ion	Ratio	Lower	Upper
94	100		
96	99.5	74.6	111.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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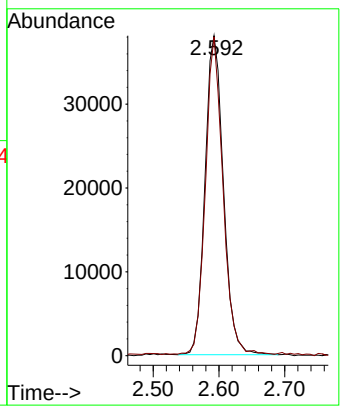
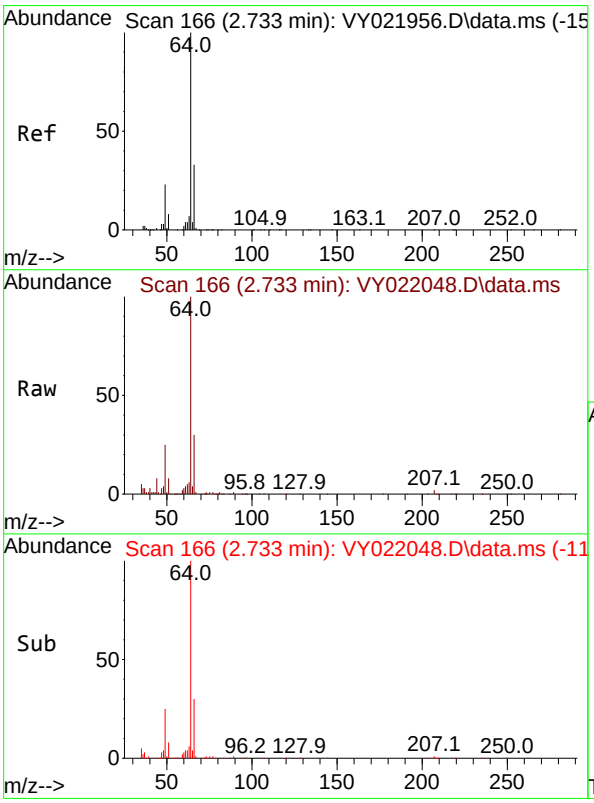
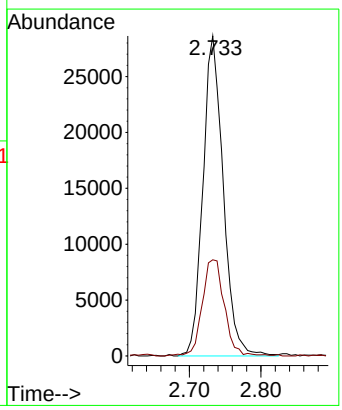


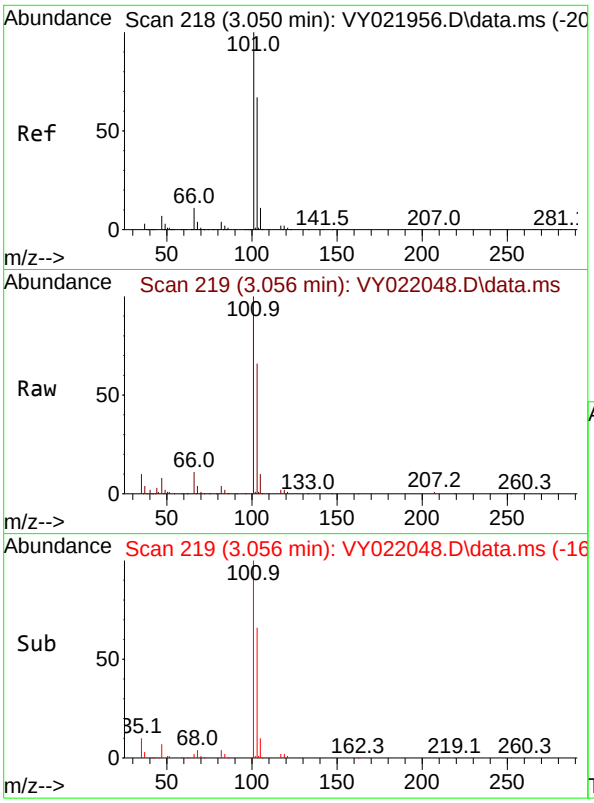


#6
Chloroethane
Concen: 18.877 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 64 Resp: 56577

Ion	Ratio	Lower	Upper
64	100		
66	29.7	26.2	39.4

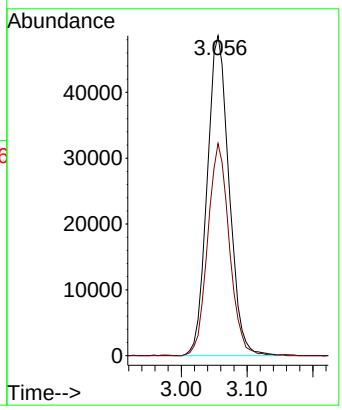




#7
Trichlorofluoromethane
Concen: 19.414 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:101 Resp: 11265

Ion	Ratio	Lower	Upper
101	100		
103	66.3	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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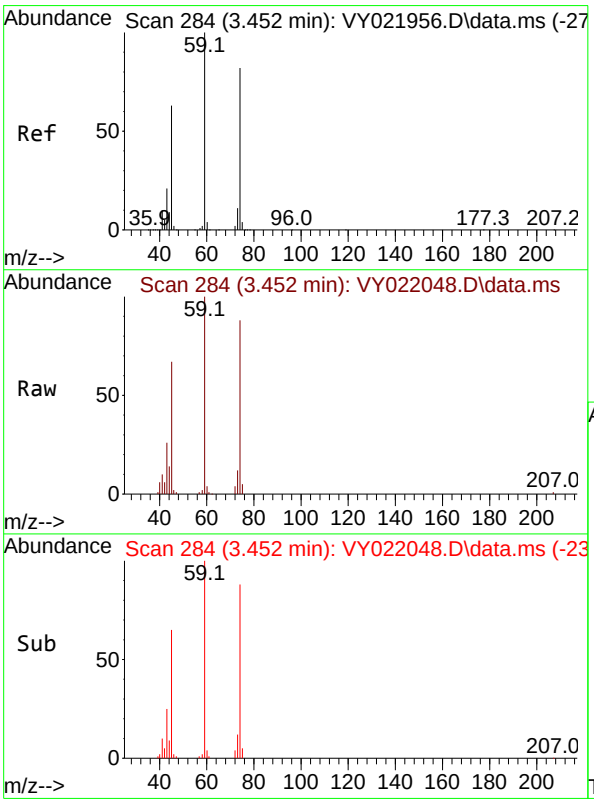
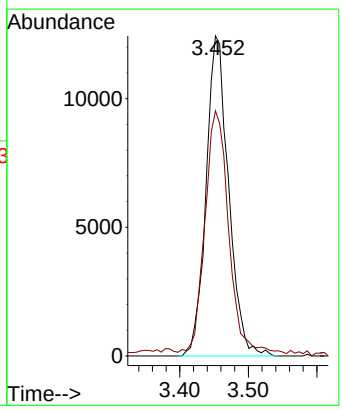
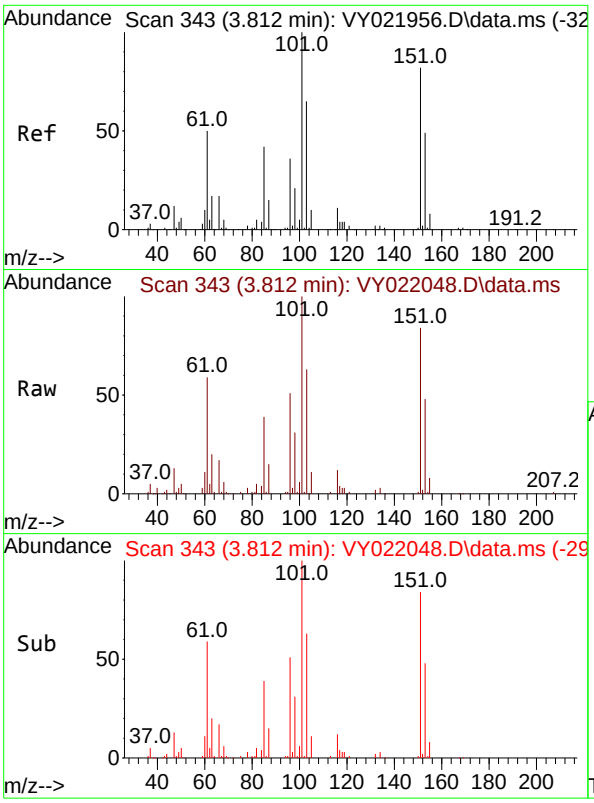


#8
Diethyl Ether
Concen: 18.792 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 74 Resp: 28383

Ion	Ratio	Lower	Upper
74	100		
45	81.1	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.635 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:101 Resp: 6180

Ion	Ratio	Lower	Upper
101	100		
85	41.8	34.6	51.8
151	80.8	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
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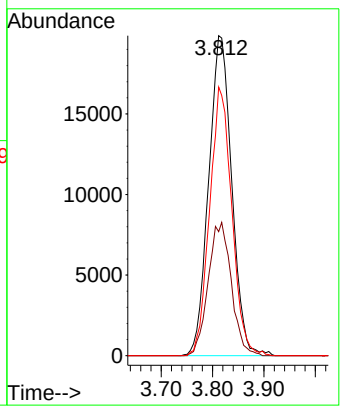
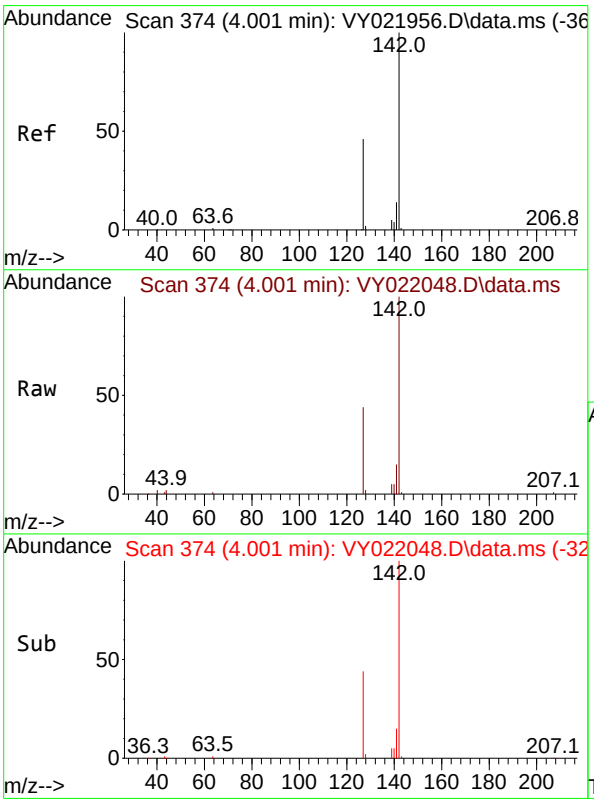
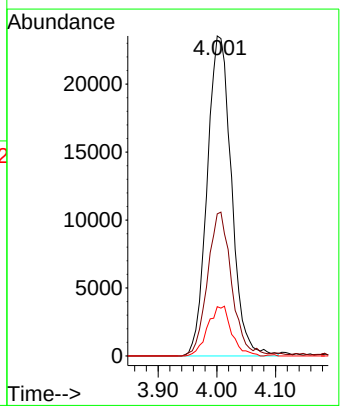


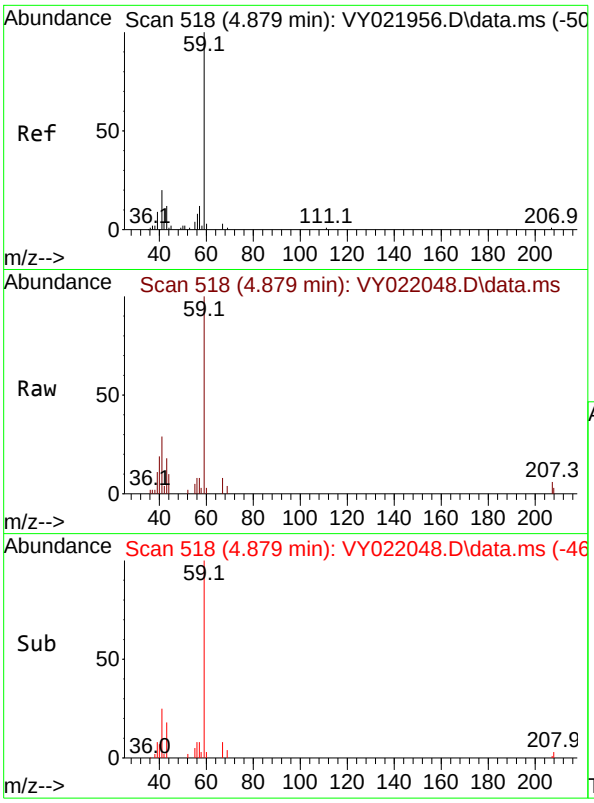


#10
Methyl Iodide
Concen: 18.495 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:142 Resp: 67410

Ion	Ratio	Lower	Upper
142	100		
127	44.8	36.2	54.2
141	15.3	11.7	17.5

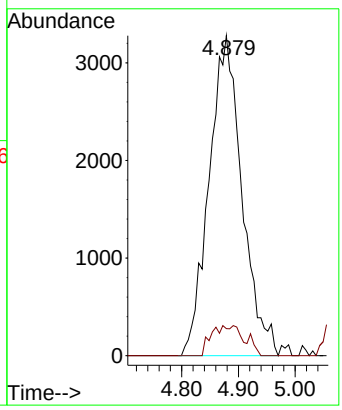




#11
Tert butyl alcohol
Concen: 88.452 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 59 Resp: 1323

Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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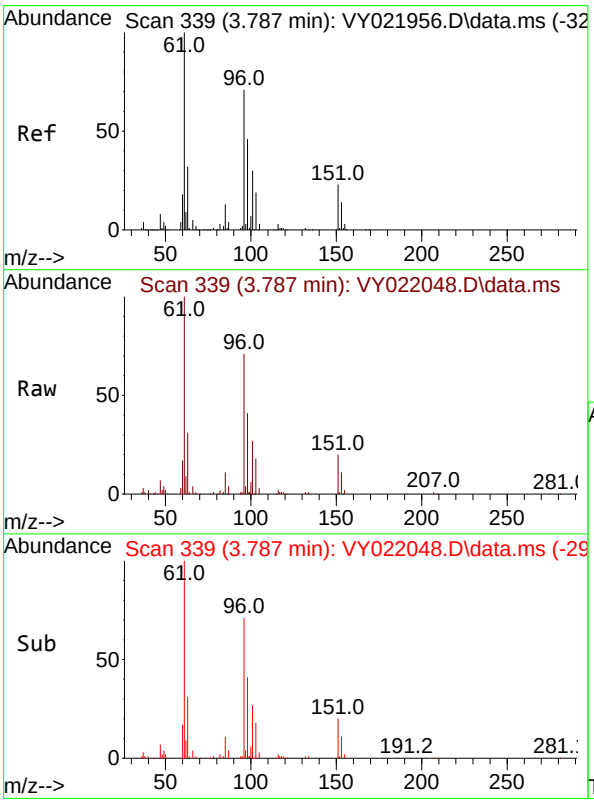
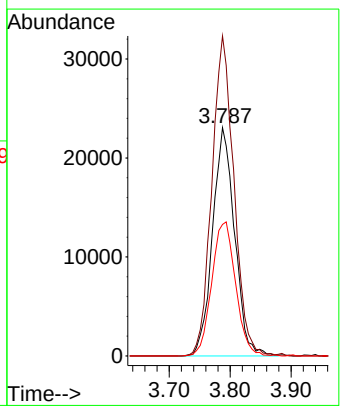
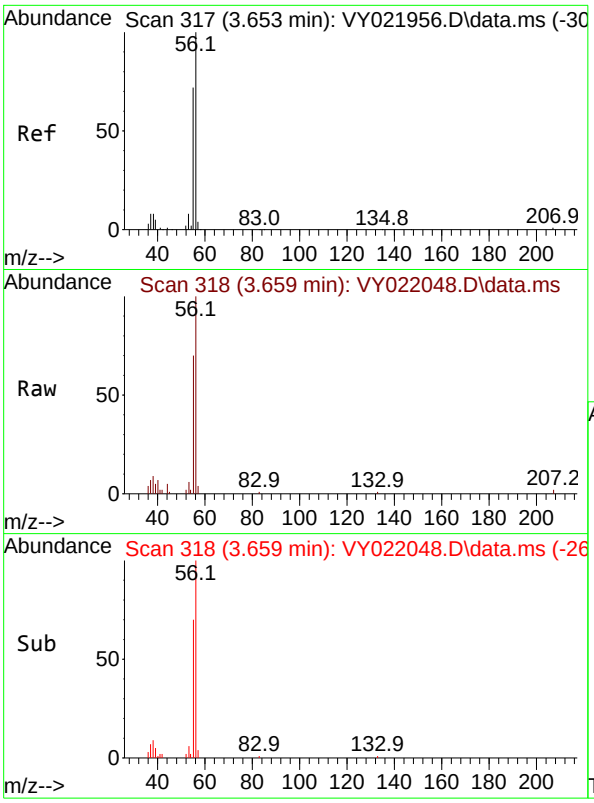


#12
1,1-Dichloroethene
Concen: 19.793 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 96 Resp: 58076

Ion	Ratio	Lower	Upper
96	100		
61	140.2	113.0	169.4
98	57.6	51.4	77.2

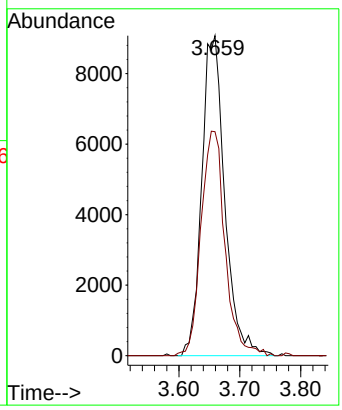




#13
Acrolein
Concen: 88.588 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 56 Resp: 2379

Ion	Ratio	Lower	Upper
56	100		
55	73.0	57.4	86.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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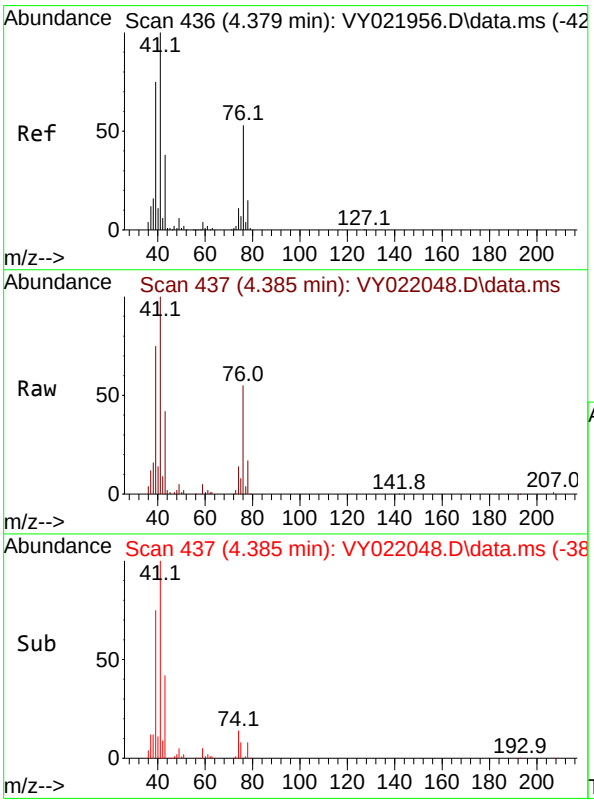
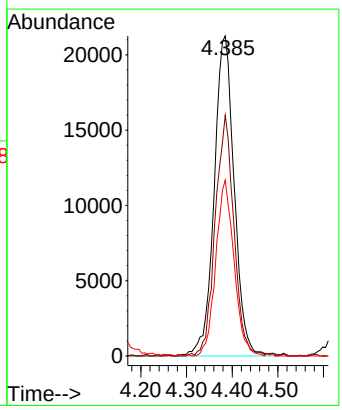
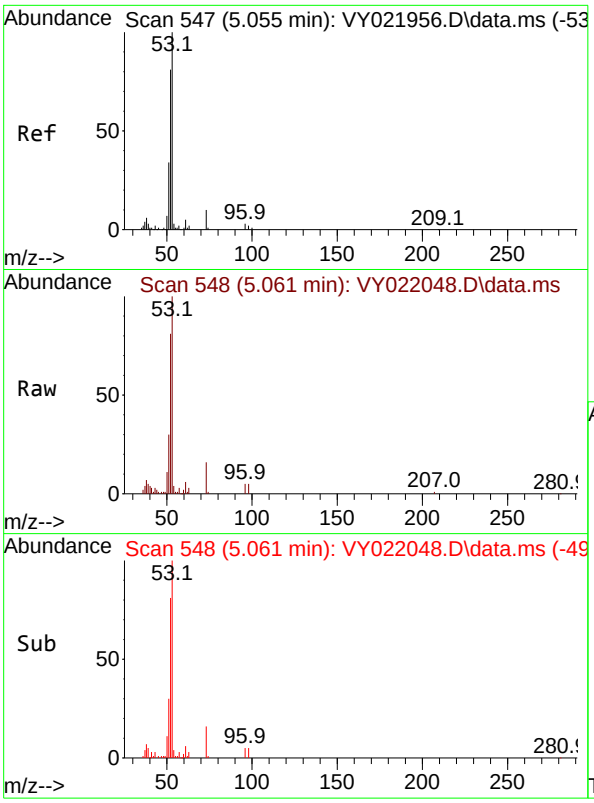


#14
Allyl chloride
Concen: 18.980 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 41 Resp: 64847

Ion	Ratio	Lower	Upper
41	100		
39	69.9	57.2	85.8
76	49.9	39.7	59.5

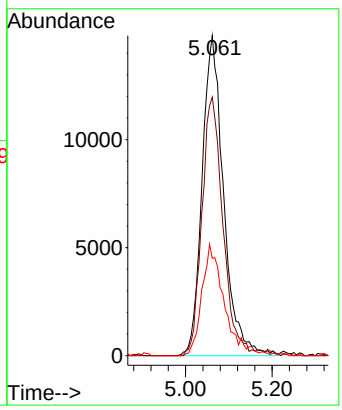




#15
Acrylonitrile
Concen: 92.413 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 53 Resp: 5109

Ion	Ratio	Lower	Upper
53	100		
52	79.3	65.0	97.6
51	35.7	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
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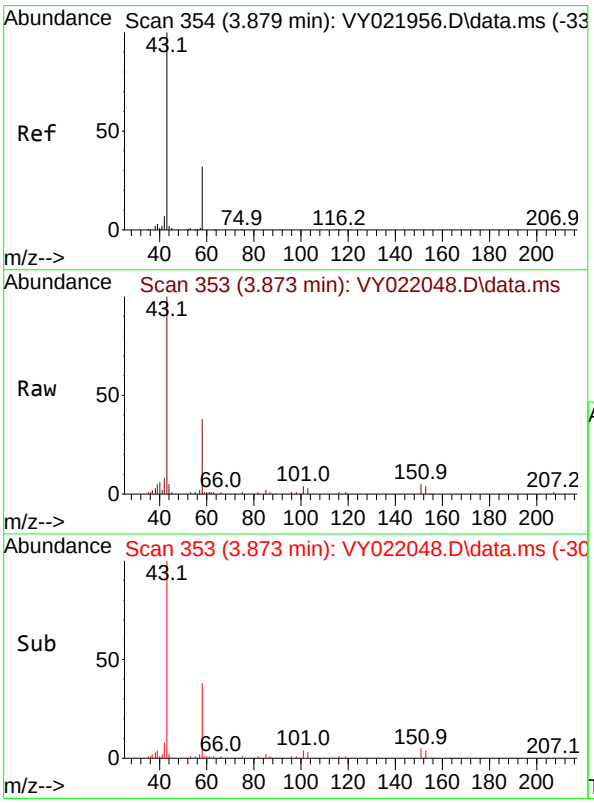
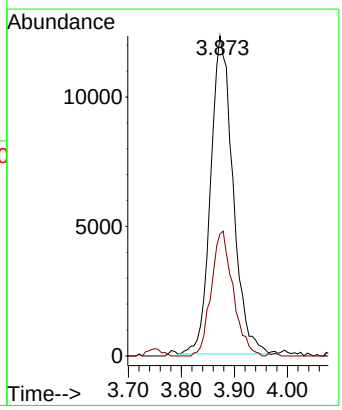
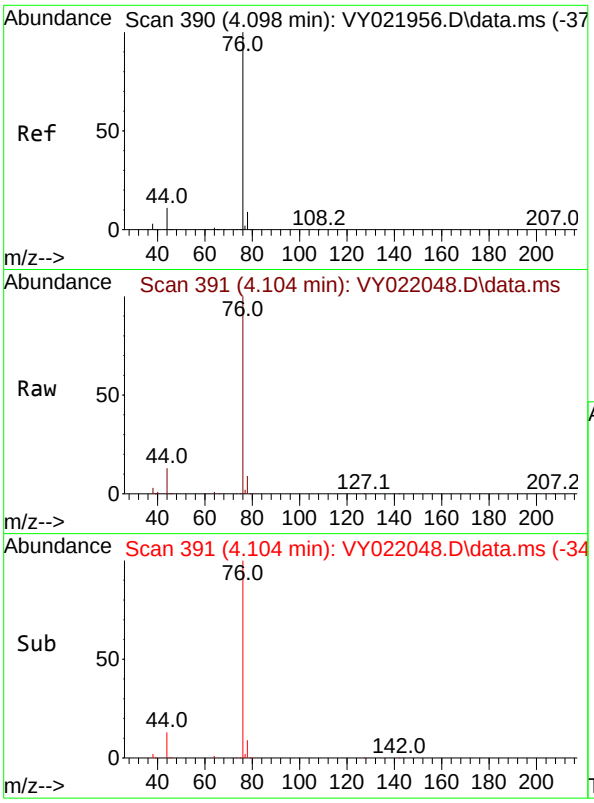


#16
Acetone
Concen: 87.002 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 36017

Ion	Ratio	Lower	Upper
43	100		
58	38.4	27.0	40.4

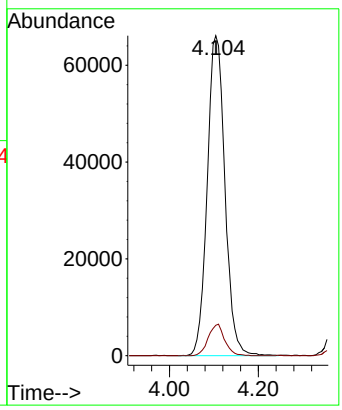




#17
Carbon Disulfide
Concen: 19.576 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 76 Resp: 18314

Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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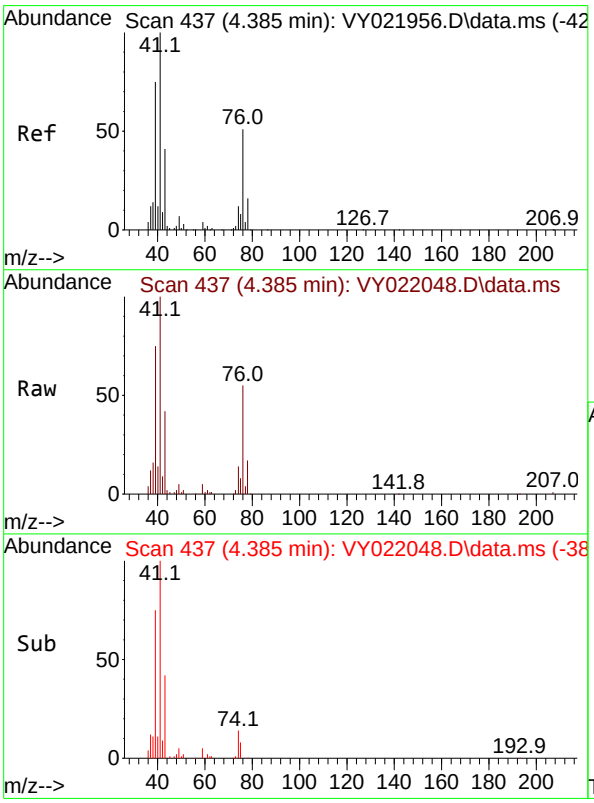
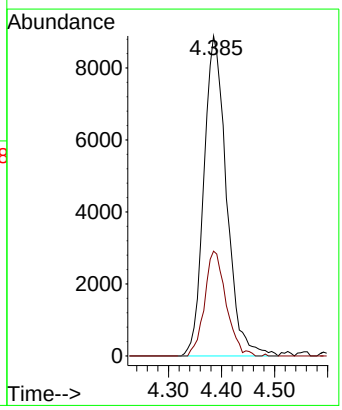
Supervised By :Mahesh Dadoda 04/30/2025

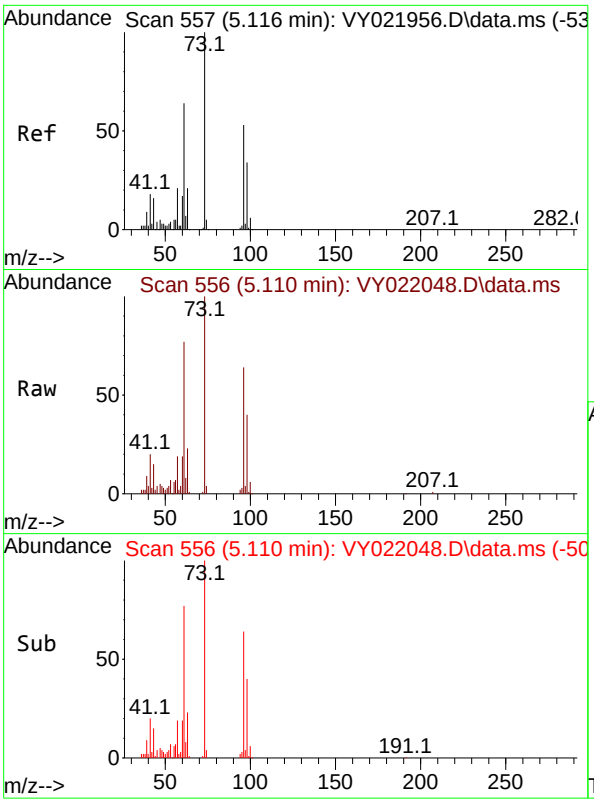


#18
Methyl Acetate
Concen: 20.705 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 26368

Ion	Ratio	Lower	Upper
43	100		
74	31.1	24.2	36.4

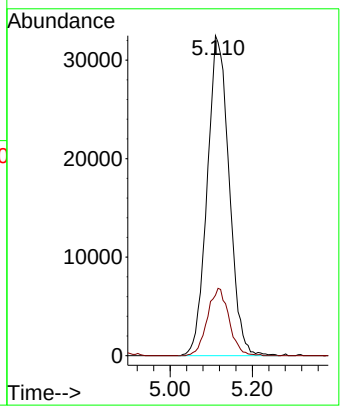




#19
Methyl tert-butyl Ether
Concen: 18.330 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 73 Resp: 12038

Ion	Ratio	Lower	Upper
73	100		
57	18.9	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
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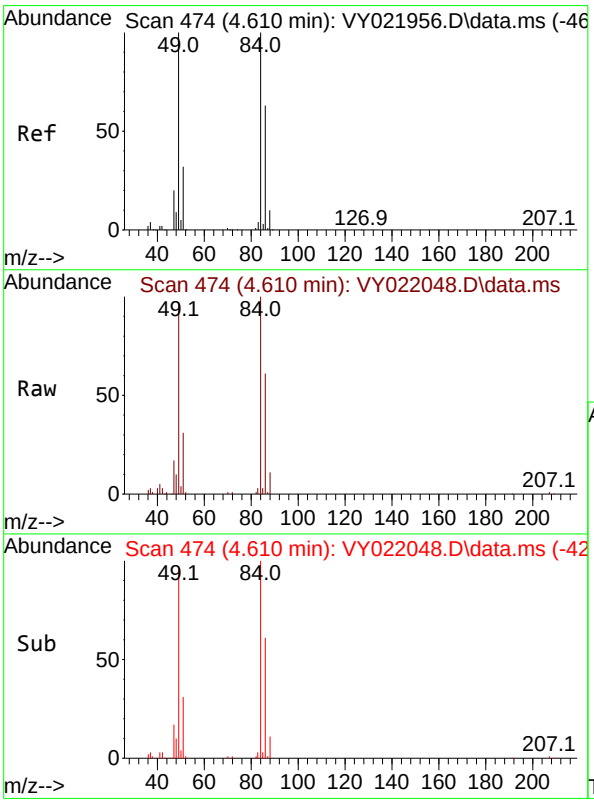
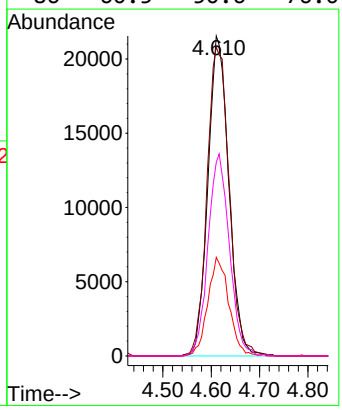
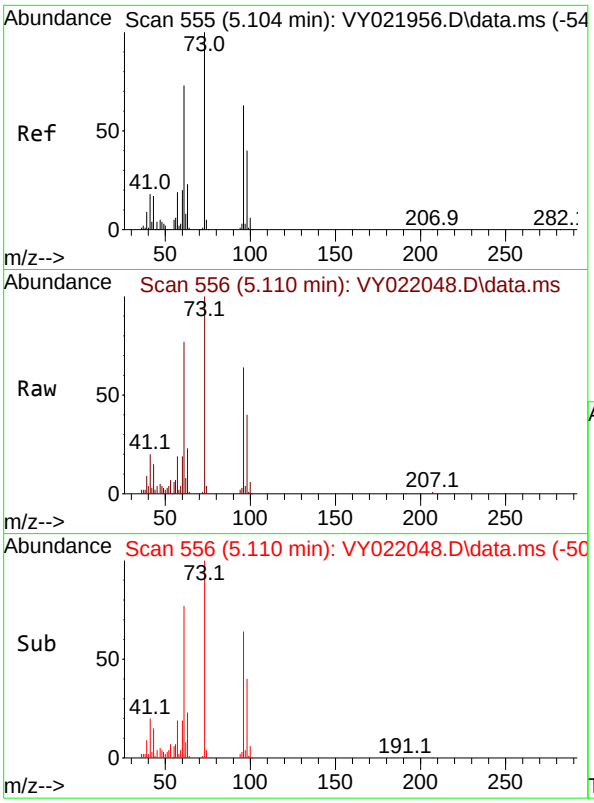


#20
Methylene Chloride
Concen: 18.734 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 84 Resp: 64582

Ion	Ratio	Lower	Upper
84	100		
49	96.5	79.9	119.9
51	30.8	25.4	38.0
86	60.5	50.6	76.0

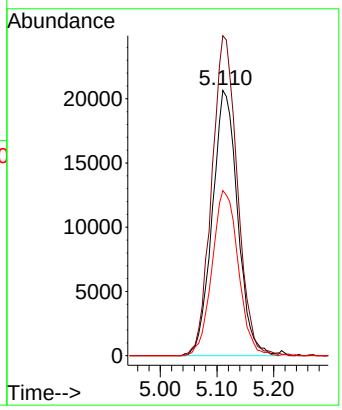




#21
trans-1,2-Dichloroethene
Concen: 19.519 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 96 Resp: 6414

Ion	Ratio	Lower	Upper
96	100		
61	120.6	92.6	138.8
98	62.2	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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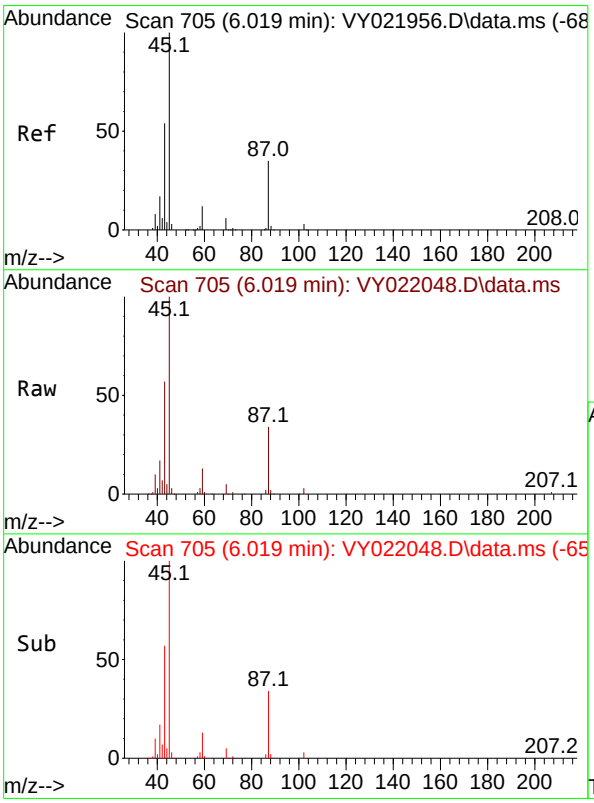
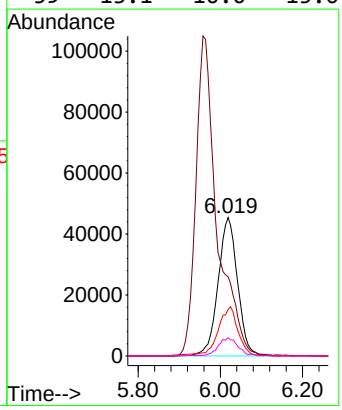
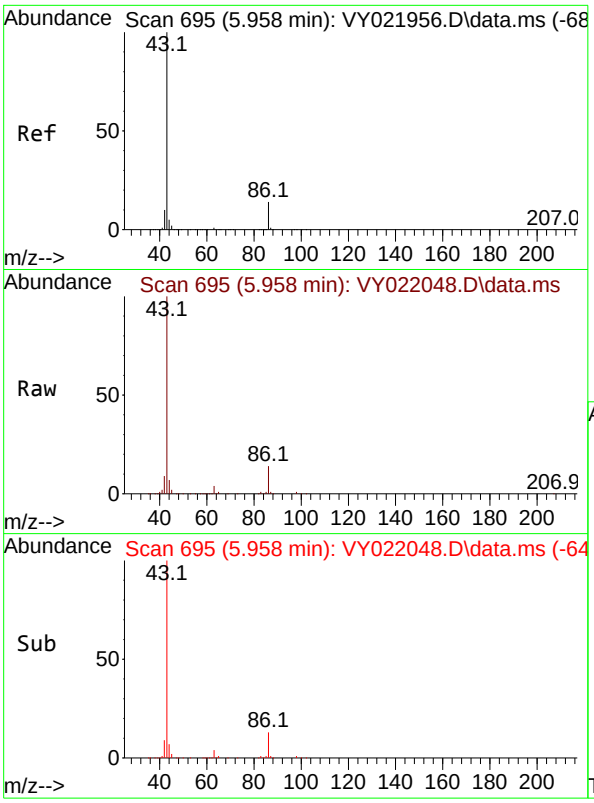


#22
Diisopropyl ether
Concen: 19.653 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 45 Resp: 149424

Ion	Ratio	Lower	Upper
45	100		
43	56.7	43.6	65.4
87	33.6	28.2	42.4
59	13.1	10.0	15.0





#23
Vinyl Acetate
Concen: 91.151 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 37350

Ion	Ratio	Lower	Upper
43	100		
86	13.5	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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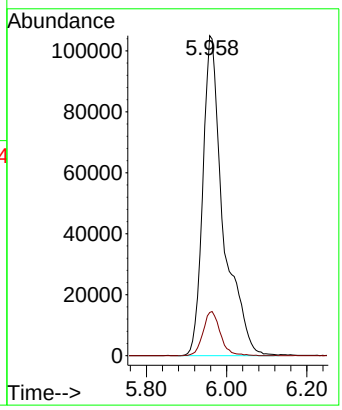
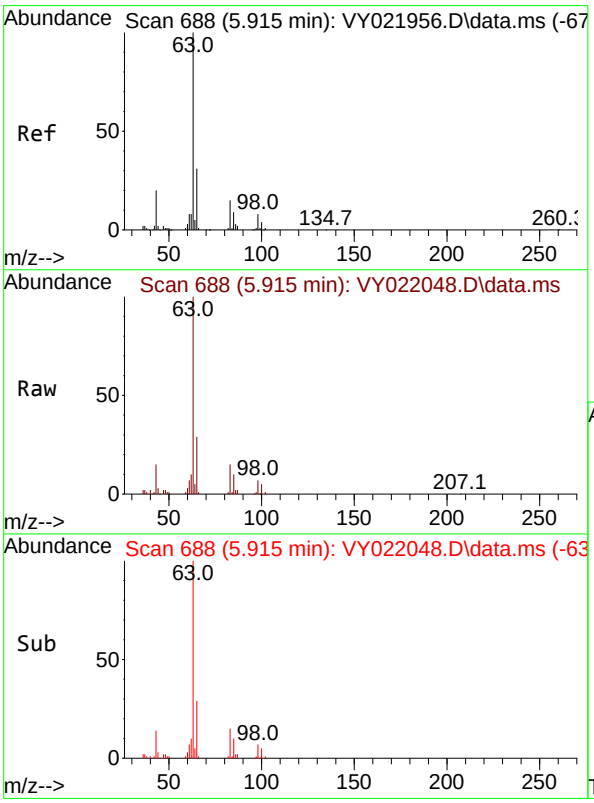
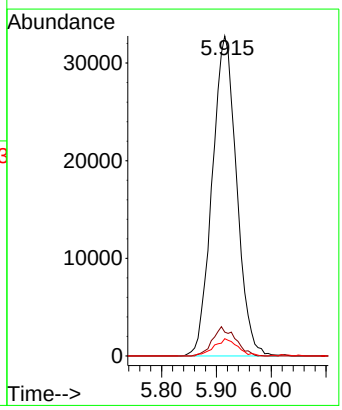


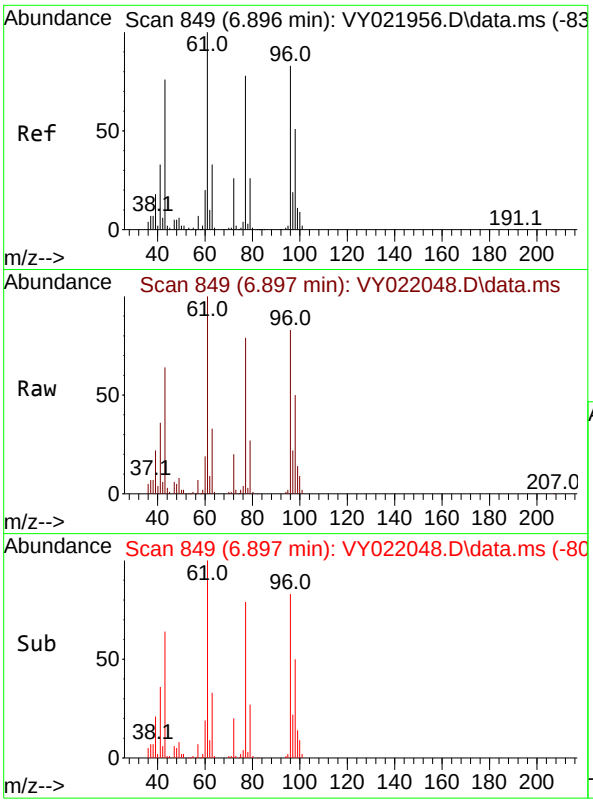


#24
1,1-Dichloroethane
Concen: 19.263 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 63 Resp: 101522

Ion	Ratio	Lower	Upper
63	100		
98	7.5	4.0	11.9
100	5.4	2.0	6.0





#25
2-Butanone
Concen: 88.358 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 5491

Ion	Ratio	Lower	Upper
43	100		
72	31.8	27.0	40.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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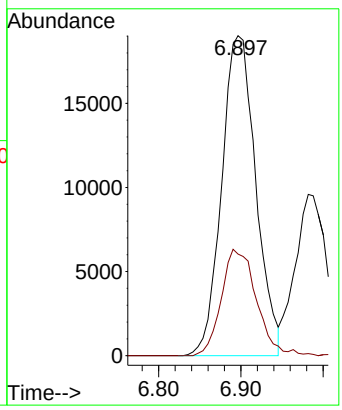
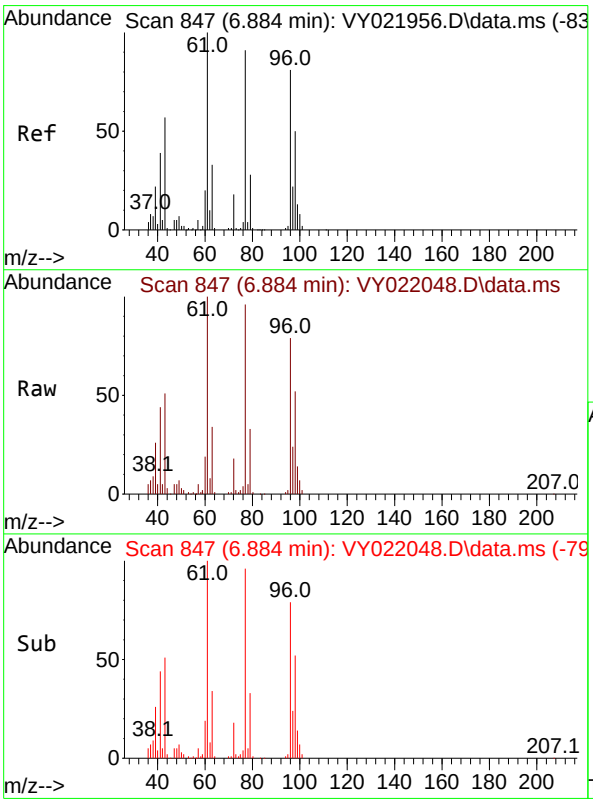
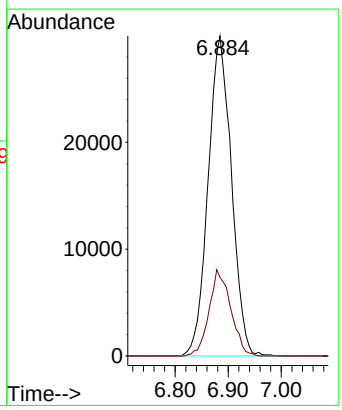


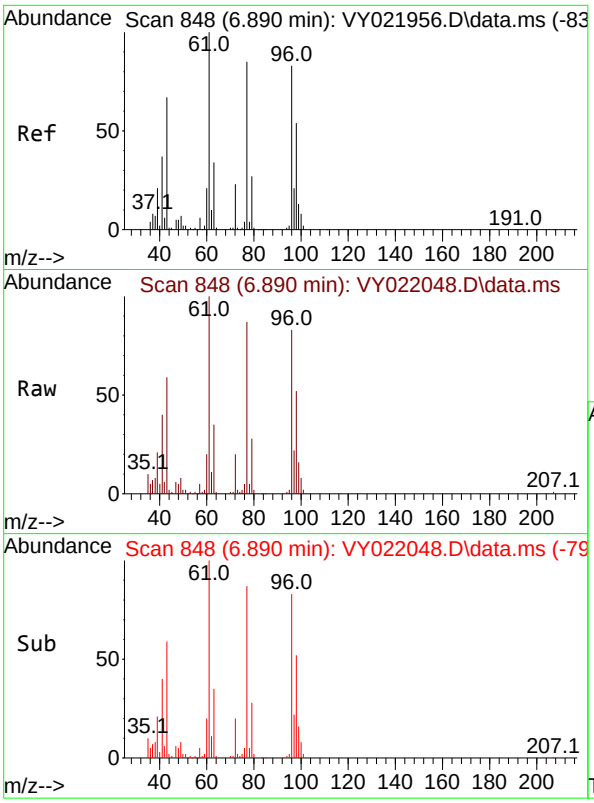


#26
2,2-Dichloropropane
Concen: 19.830 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 77 Resp: 91600

Ion	Ratio	Lower	Upper
77	100		
97	25.0	12.4	37.4

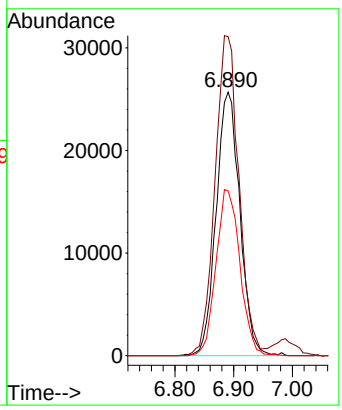




#27
cis-1,2-Dichloroethene
Concen: 19.606 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 96 Resp: 7203

Ion	Ratio	Lower	Upper
96	100		
61	122.5	0.0	251.4
98	63.7	0.0	128.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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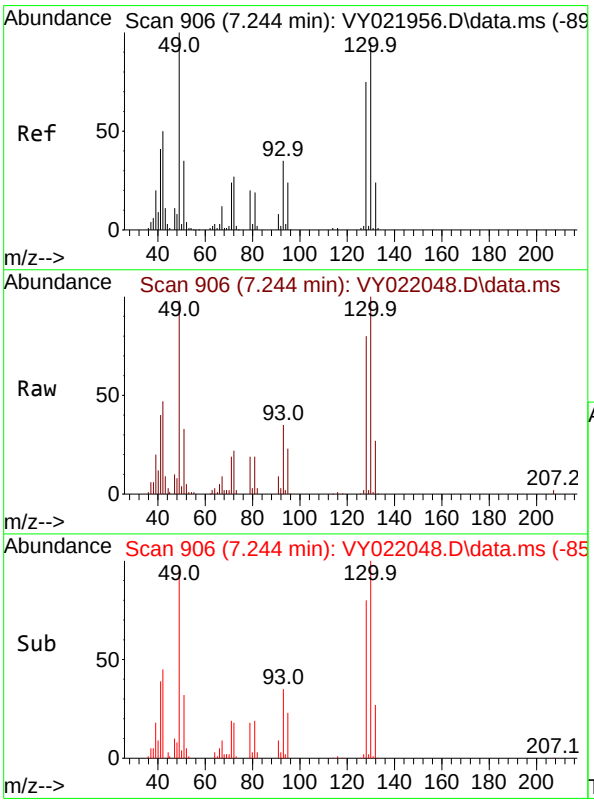
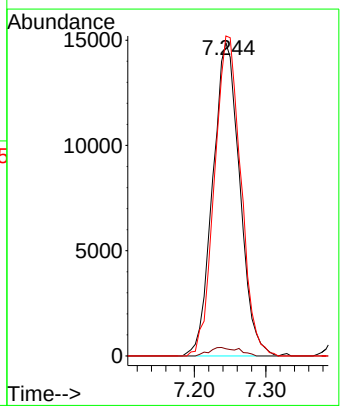
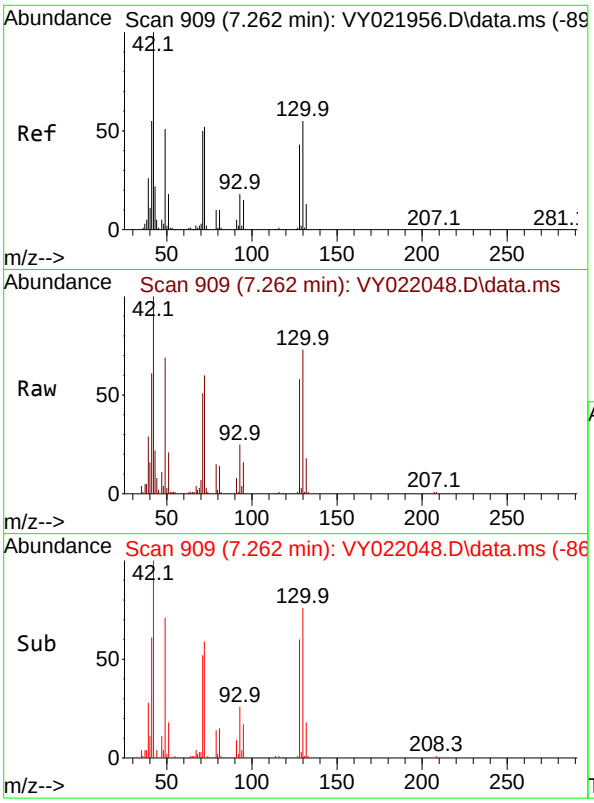


#28
Bromochloromethane
Concen: 19.066 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 49 Resp: 39029

Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	5.0
130	99.7	78.2	117.4

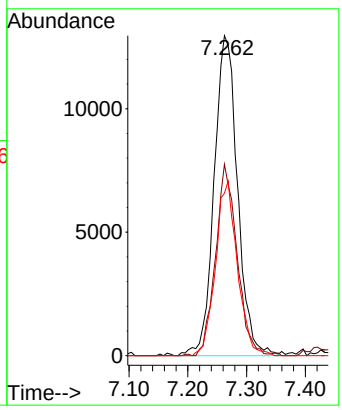




#29
Tetrahydrofuran
Concen: 88.815 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 42 Resp: 3584

Ion	Ratio	Lower	Upper
42	100		
72	54.8	42.6	63.8
71	51.0	40.6	61.0



Instrument :
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ClientSampleId :
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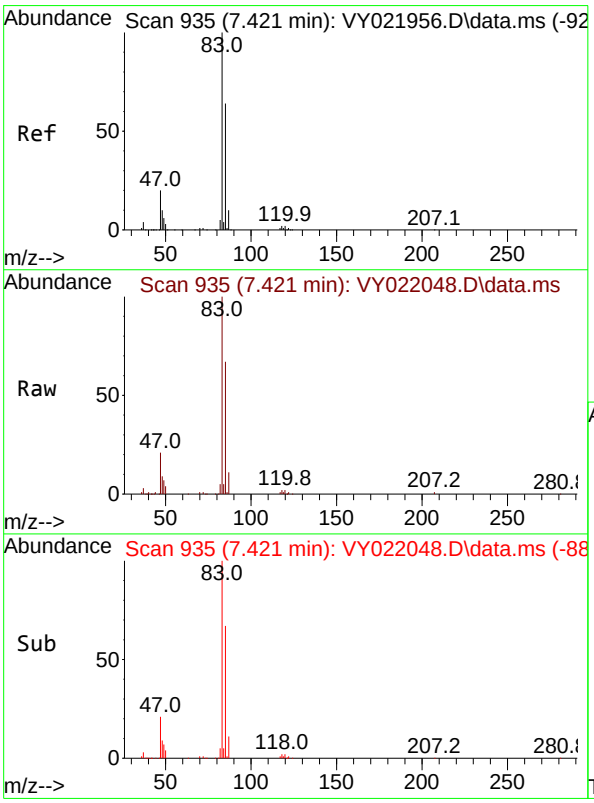
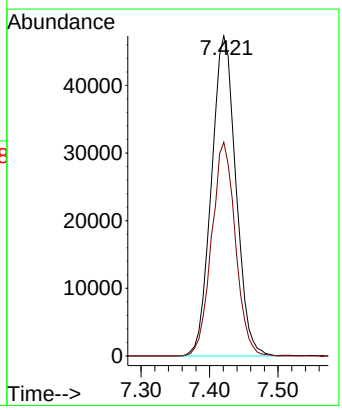
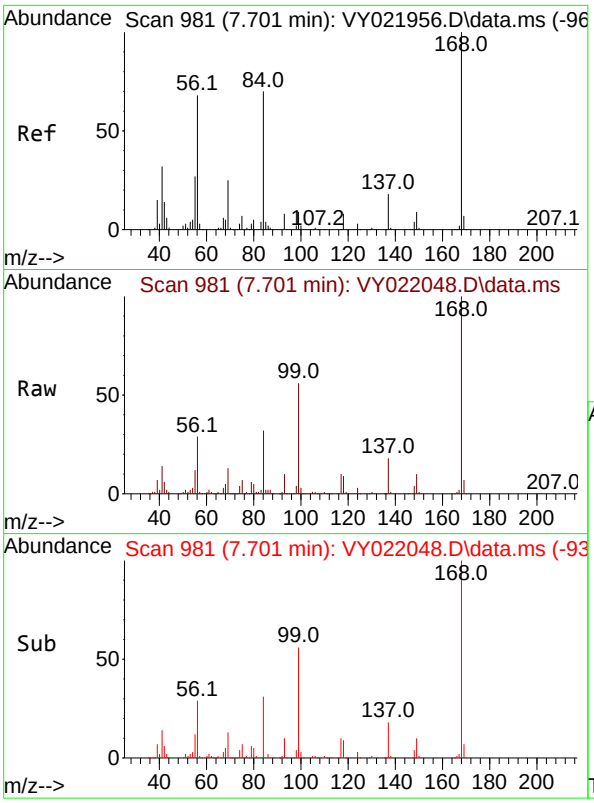


#30
Chloroform
Concen: 20.020 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 83 Resp: 117036

Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.3	76.9





#31
Cyclohexane
Concen: 18.687 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 56 Resp: 8422

Ion	Ratio	Lower	Upper
56	100		
69	43.1	29.4	44.2
84	106.1	82.2	123.4

Instrument :
MSVOA_Y
ClientSampleId :
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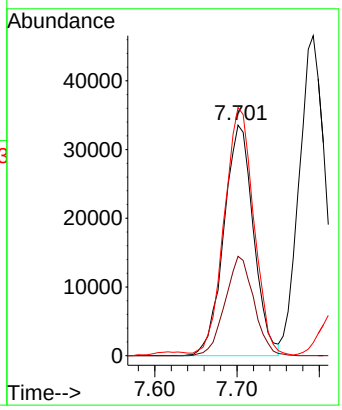
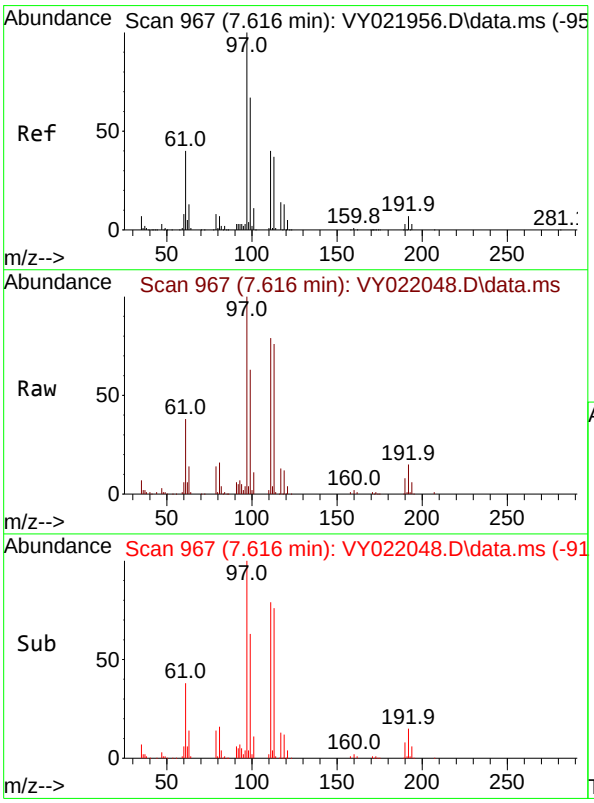
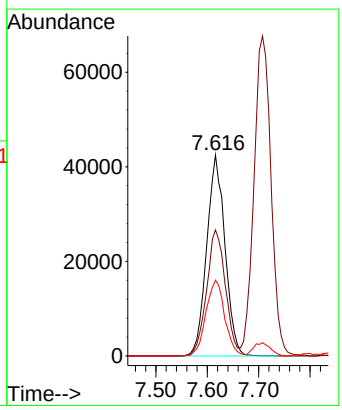


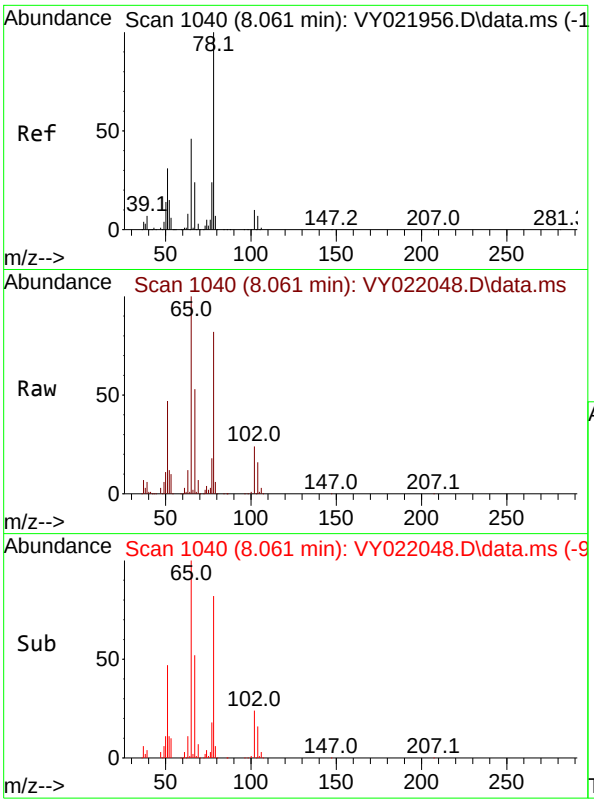


#32
1,1,1-Trichloroethane
Concen: 19.880 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 97 Resp: 105143

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.2
61	38.7	31.4	47.2

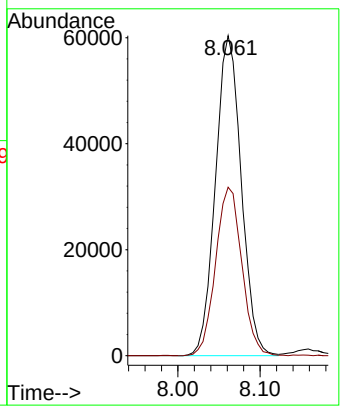




#33
1,2-Dichloroethane-d4
Concen: 48.350 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 65 Resp: 13181

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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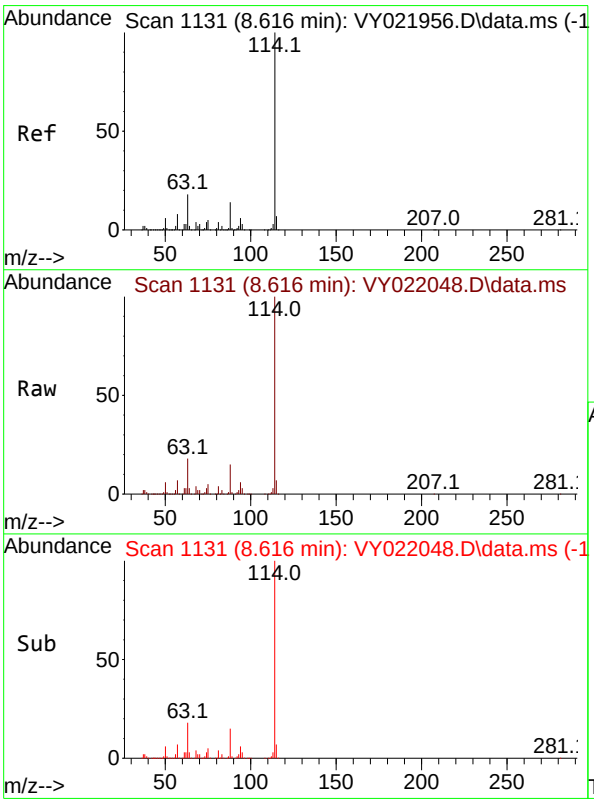
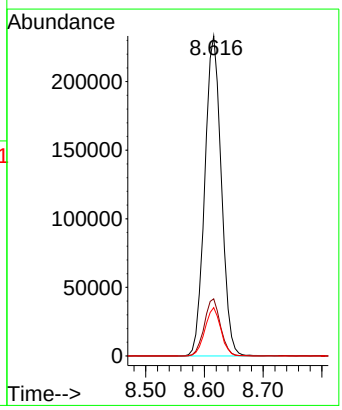
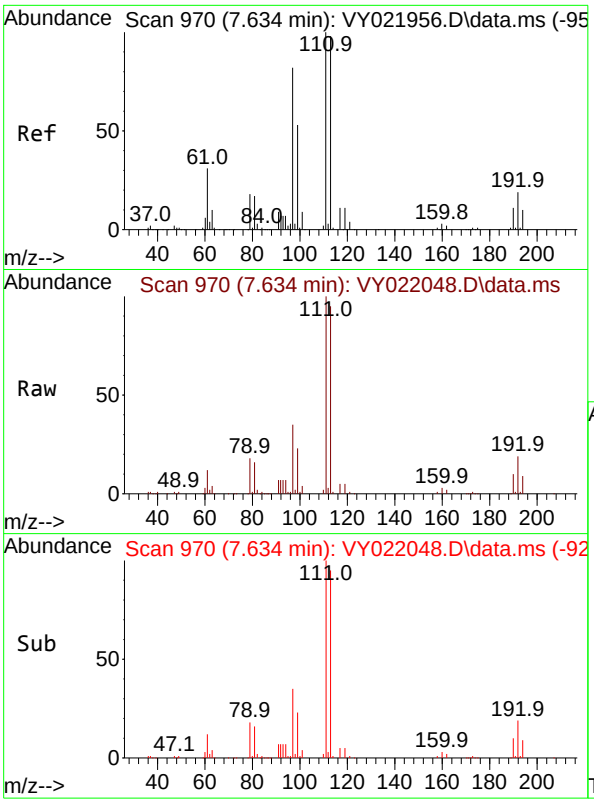


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:114 Resp: 455592

Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	35.4
88	15.1	0.0	28.2

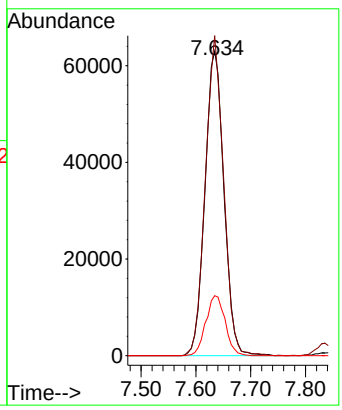




#35
Dibromofluoromethane
Concen: 50.166 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:113 Resp: 15099

Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.8	122.8
192	20.1	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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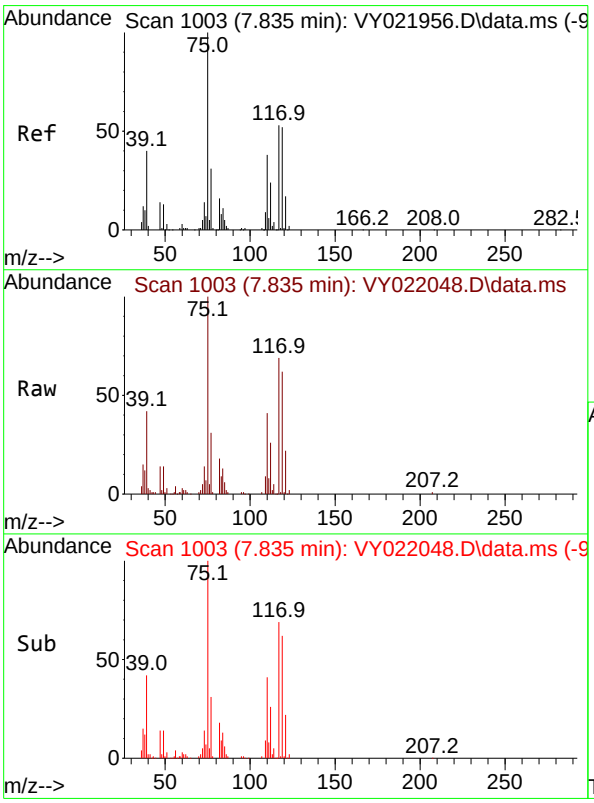
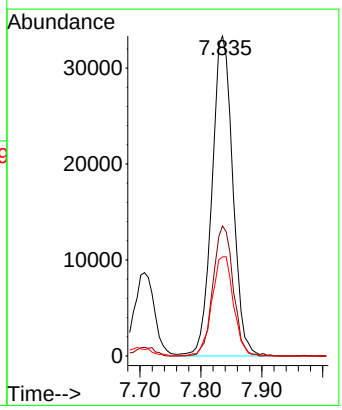
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

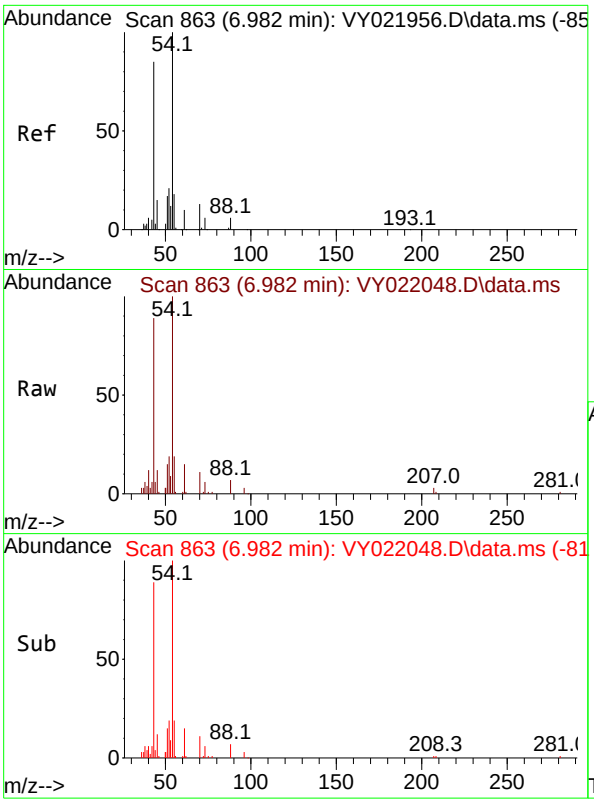


#36
1,1-Dichloropropene
Concen: 19.558 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 75 Resp: 79075

Ion	Ratio	Lower	Upper
75	100		
110	39.4	19.1	57.3
77	32.2	25.5	38.3

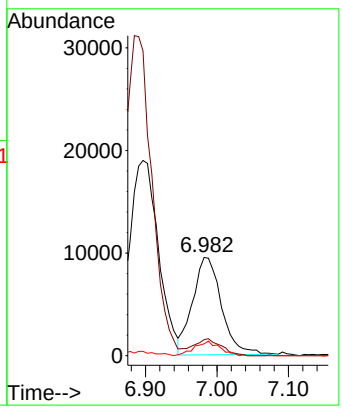




#37
Ethyl Acetate
Concen: 18.338 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 2662

Ion	Ratio	Lower	Upper
43	100		
61	16.7	13.8	20.6
70	13.0	9.2	13.8



Instrument :
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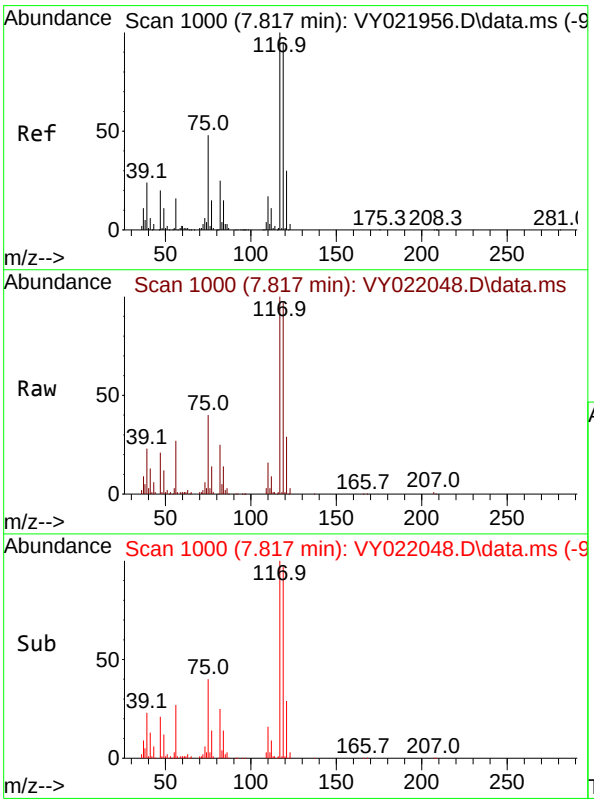
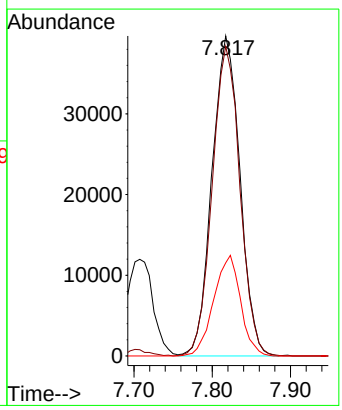
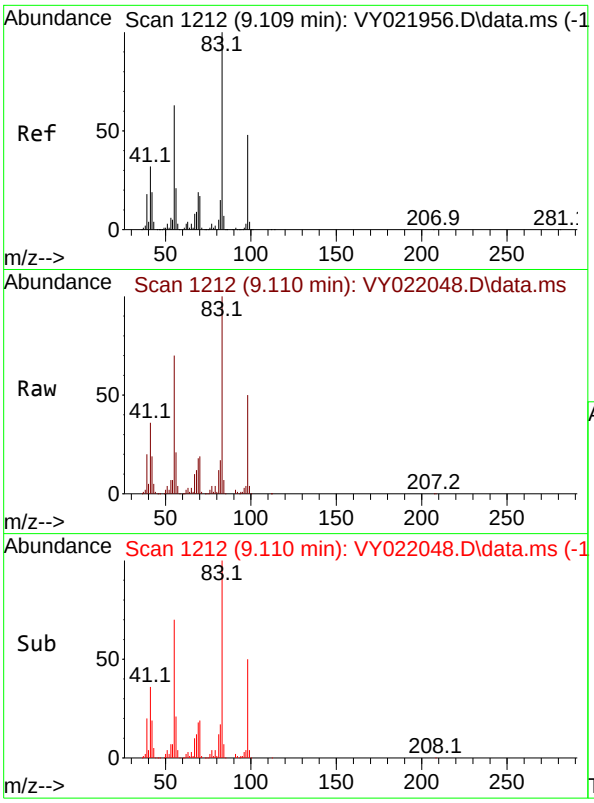


#38
Carbon Tetrachloride
Concen: 20.330 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:117 Resp: 98218

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.2	114.4
121	29.1	24.0	36.0

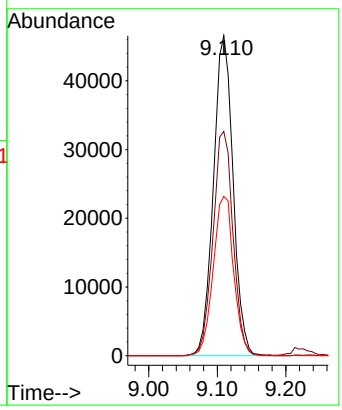




#39
Methylcyclohexane
Concen: 18.187 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 83 Resp: 9253

Ion	Ratio	Lower	Upper
83	100		
55	70.1	50.6	75.8
98	49.8	38.6	58.0



Instrument :
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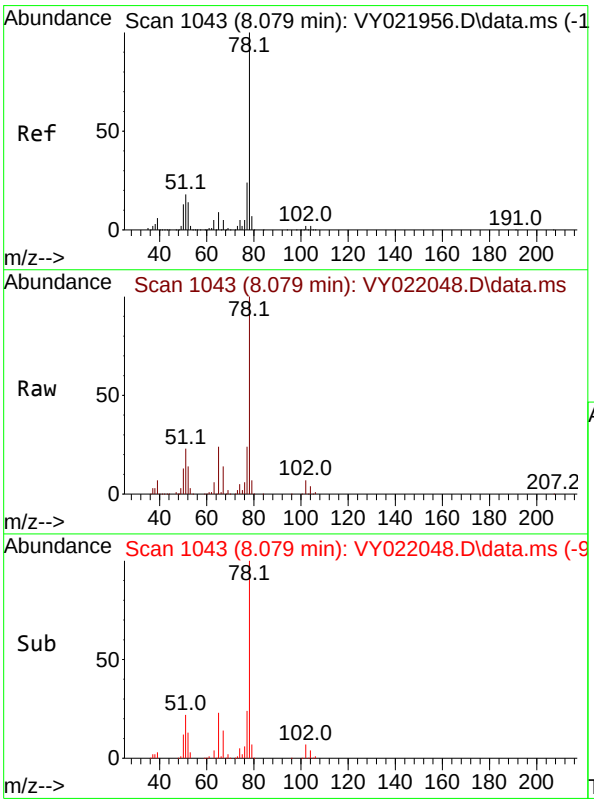
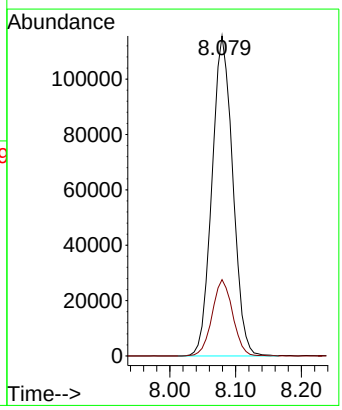
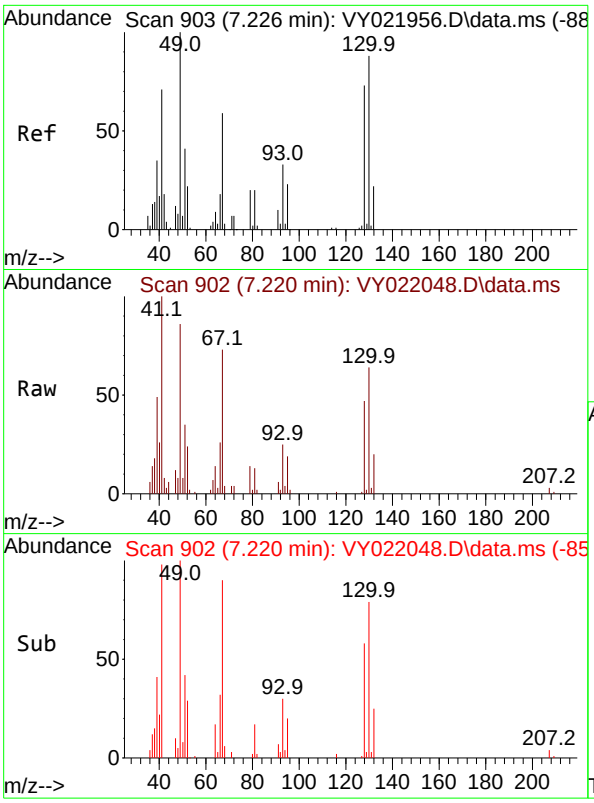


#40
Benzene
Concen: 20.158 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 78 Resp: 254772

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9

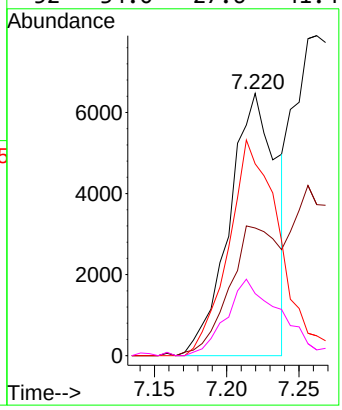




#41
Methacrylonitrile
Concen: 18.571 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 41 Resp: 1474

Ion	Ratio	Lower	Upper
41	100		
39	52.0	36.6	55.0
67	88.7	72.2	108.4
52	34.0	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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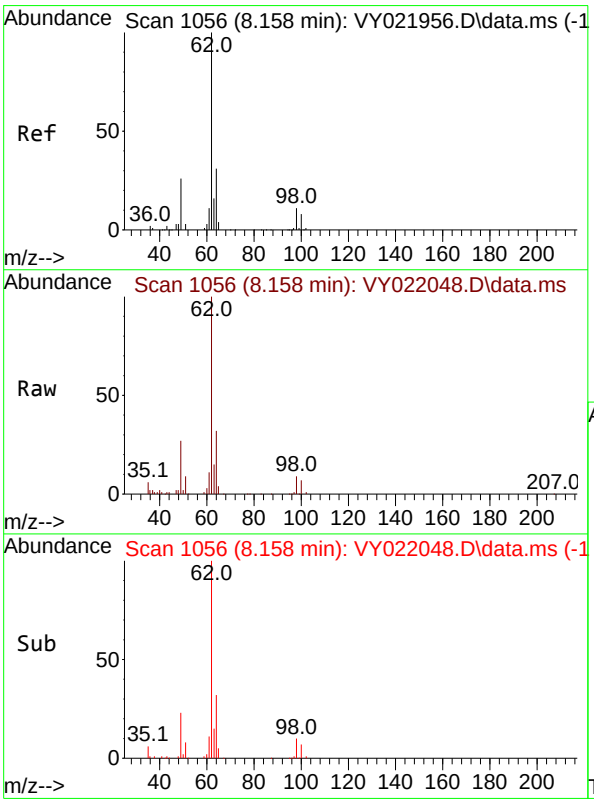
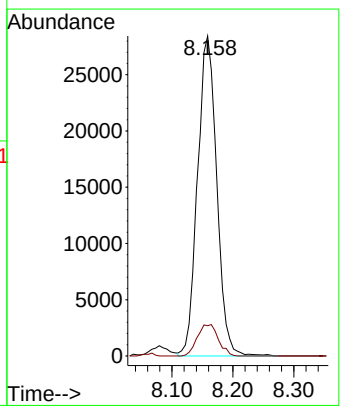
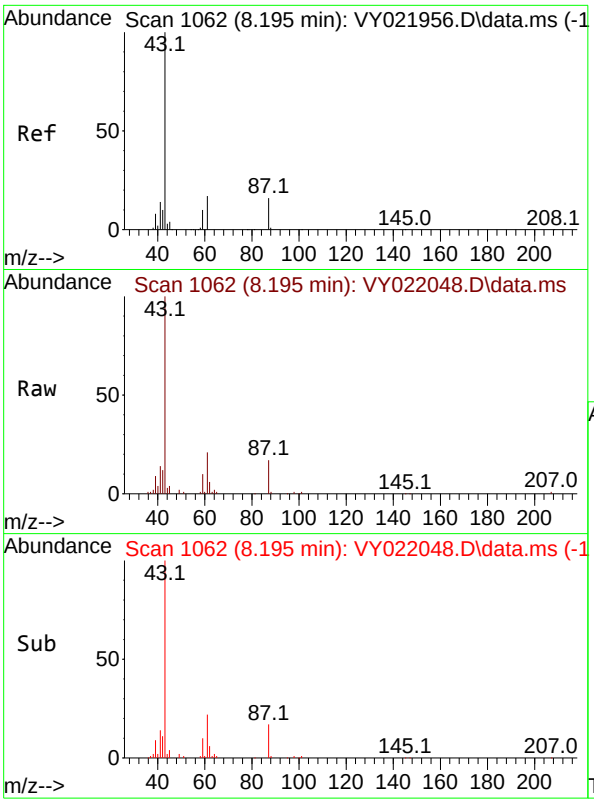


#42
1,2-Dichloroethane
Concen: 19.929 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 62 Resp: 62360

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	22.0

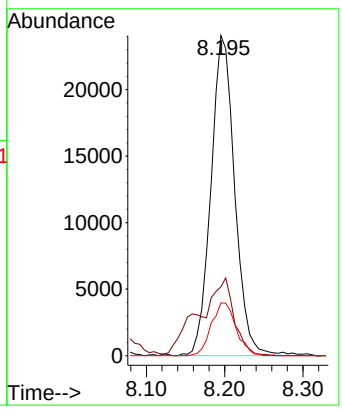




#43
Isopropyl Acetate
Concen: 18.193 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 5073

Ion	Ratio	Lower	Upper
43	100		
61	21.9	18.9	28.3
87	17.2	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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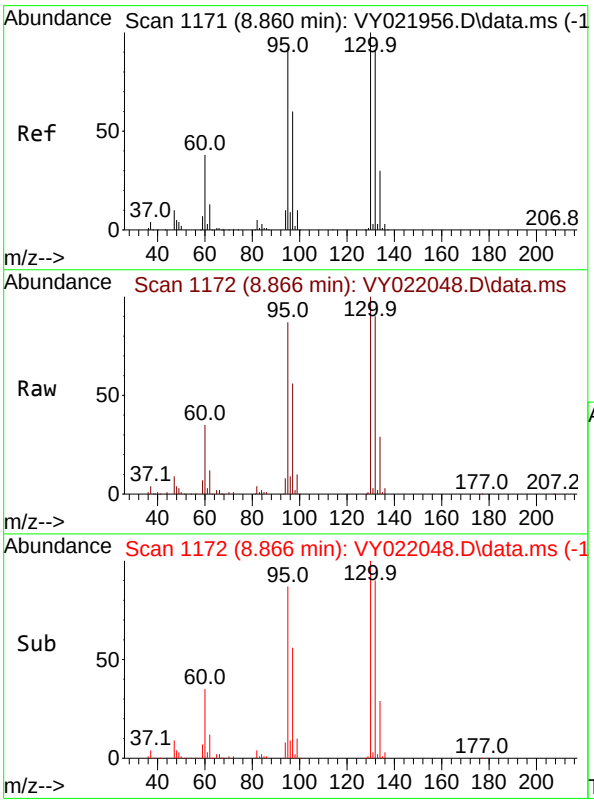
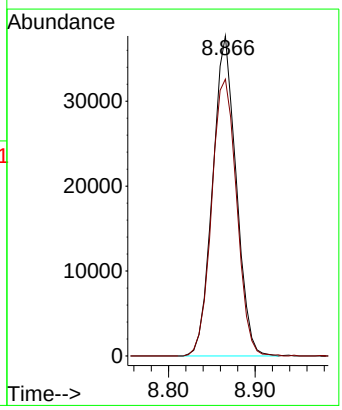
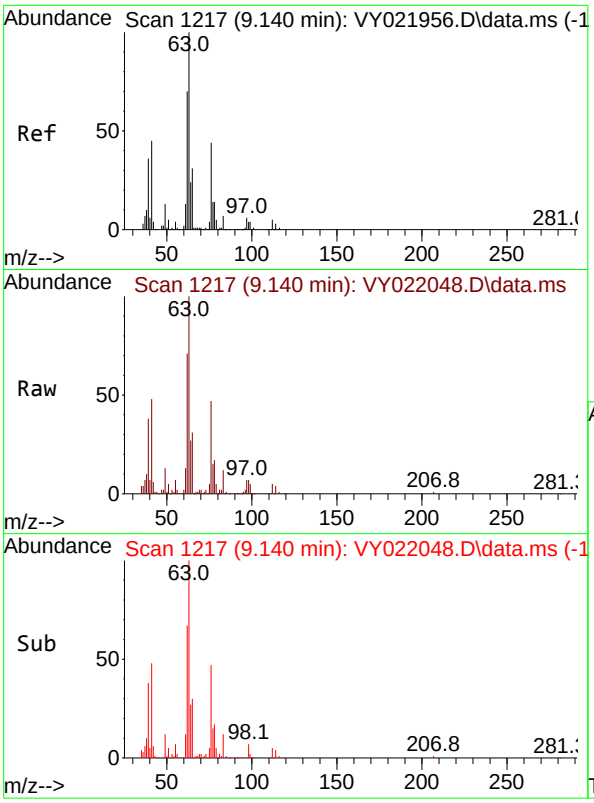


#44
Trichloroethene
Concen: 20.290 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:130 Resp: 71028

Ion	Ratio	Lower	Upper
130	100		
95	86.5	0.0	183.2

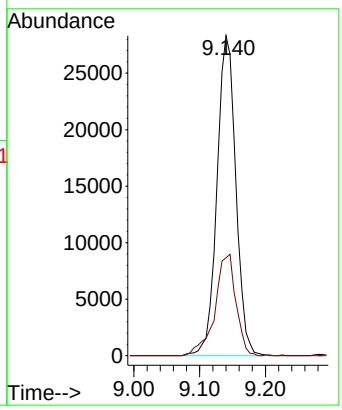




#45
1,2-Dichloropropane
Concen: 20.194 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 63 Resp: 5644

Ion	Ratio	Lower	Upper
63	100		
65	30.6	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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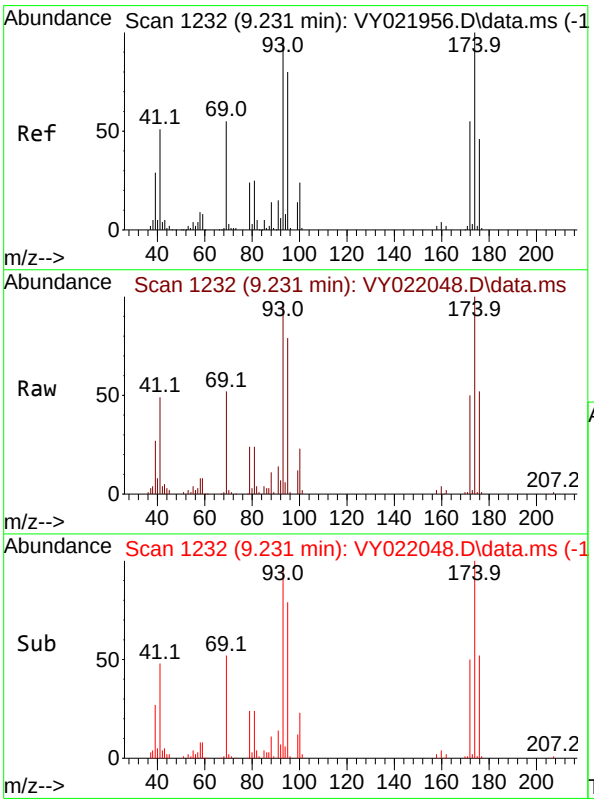
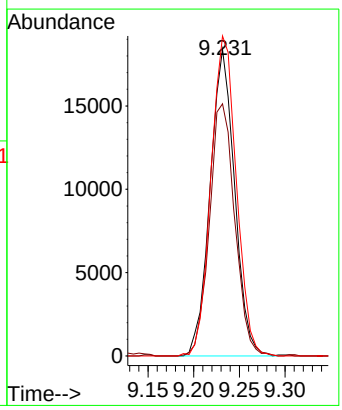
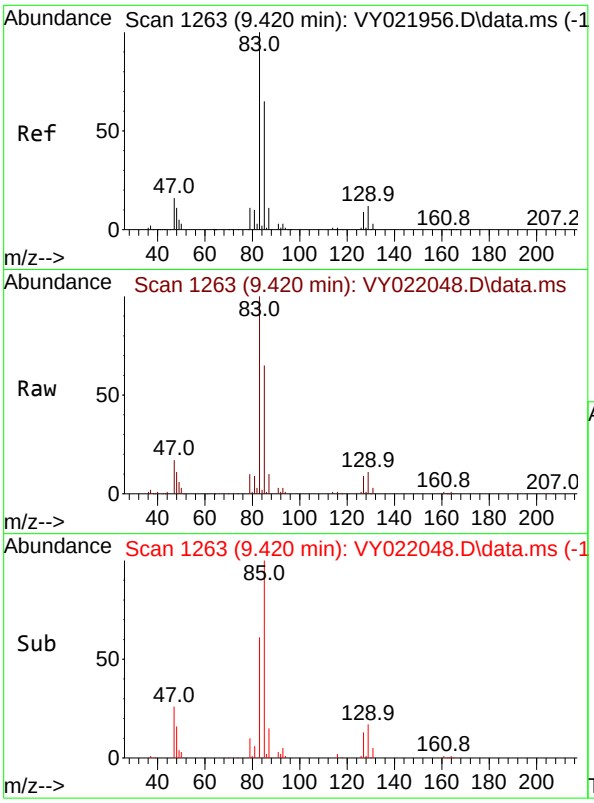


#46
Dibromomethane
Concen: 19.593 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 93 Resp: 34280

Ion	Ratio	Lower	Upper
93	100		
95	85.0	66.7	100.1
174	108.0	84.6	127.0

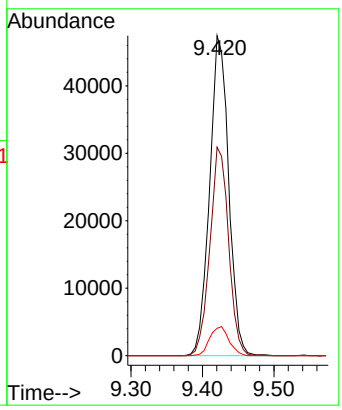




#47
Bromodichloromethane
Concen: 20.067 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 83 Resp: 8771

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.8
127	8.5	7.0	10.6



Instrument :
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ClientSampleId :
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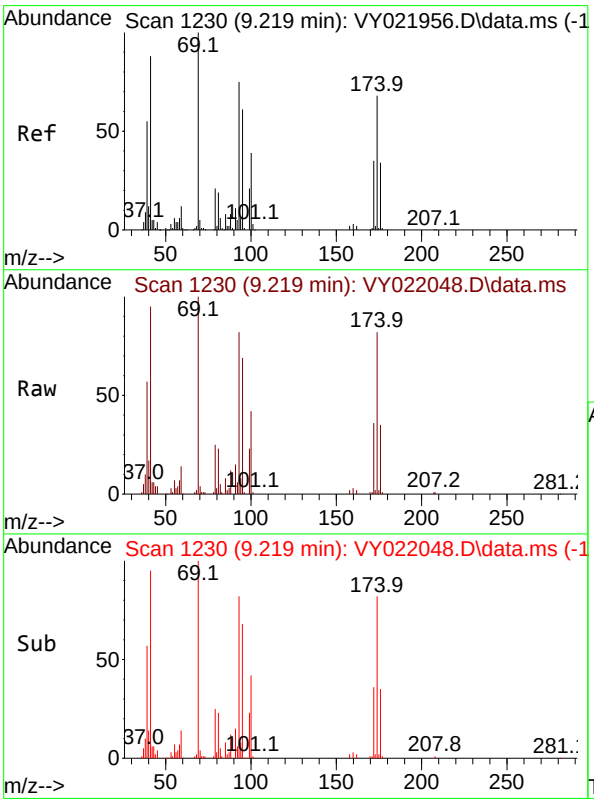
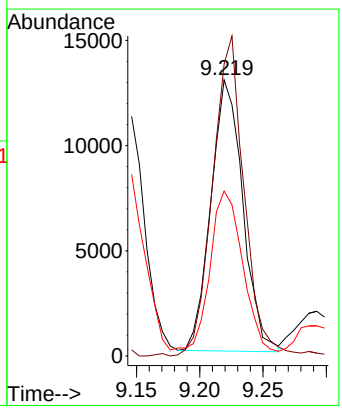
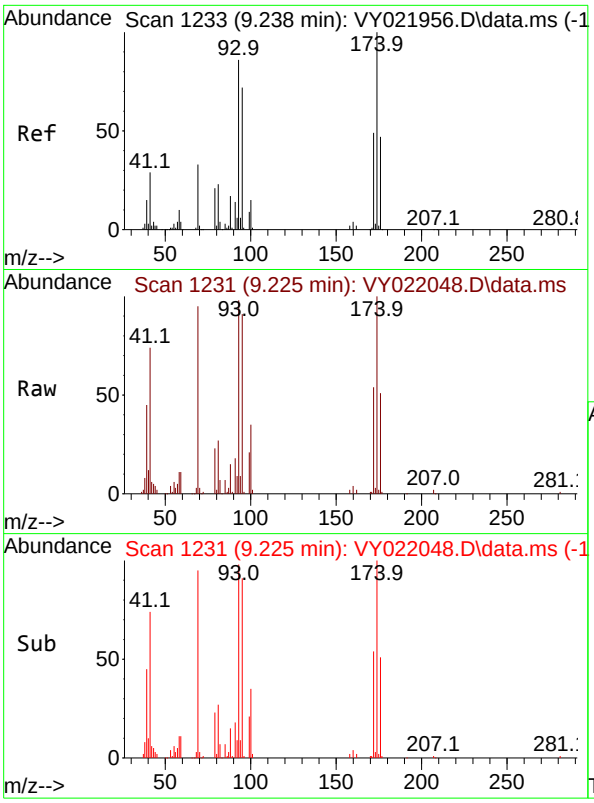


#48
Methyl methacrylate
Concen: 17.533 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 41 Resp: 22602

Ion	Ratio	Lower	Upper
41	100		
69	117.1	85.5	128.3
39	59.4	46.2	69.4

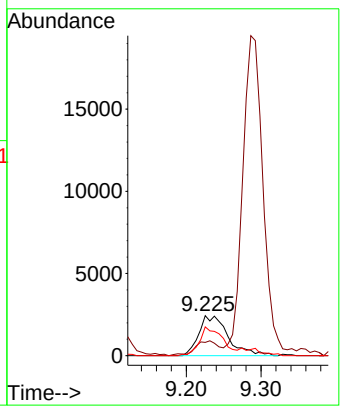




#49
1,4-Dioxane
Concen: 355.374 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 88 Resp: 662

Ion	Ratio	Lower	Upper
88	100		
43	30.6	21.3	31.9
58	56.9	50.5	75.7



Instrument :
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ClientSampleId :
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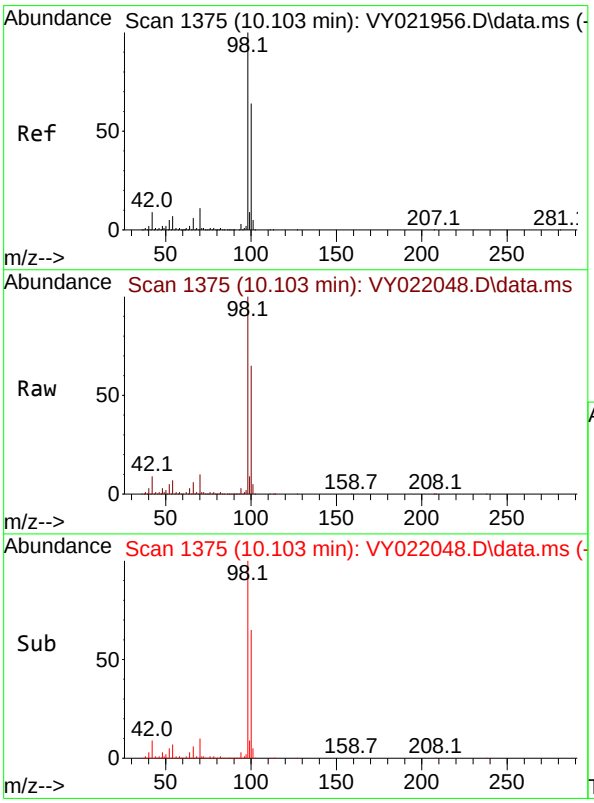
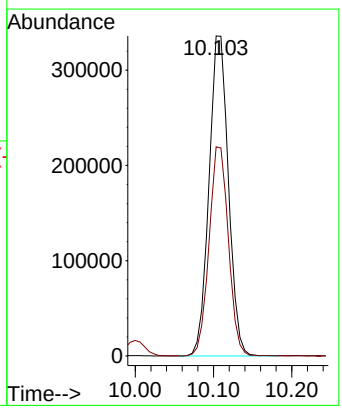
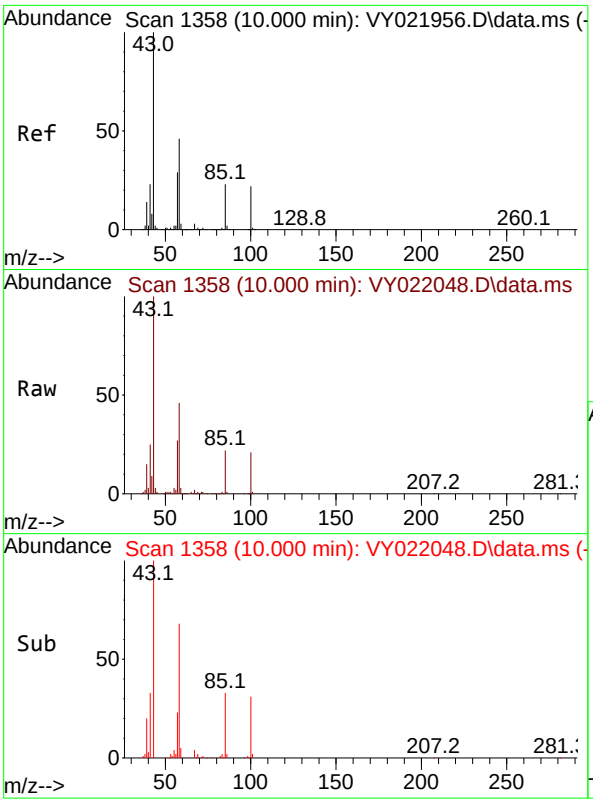


#50
Toluene-d8
Concen: 50.927 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 98 Resp: 577886

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.6	77.4

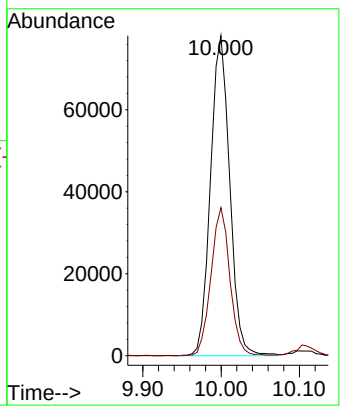




#51
4-Methyl-2-Pentanone
Concen: 91.148 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 13324

Ion	Ratio	Lower	Upper
43	100		
58	45.6	36.6	55.0



Instrument :
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ClientSampleId :
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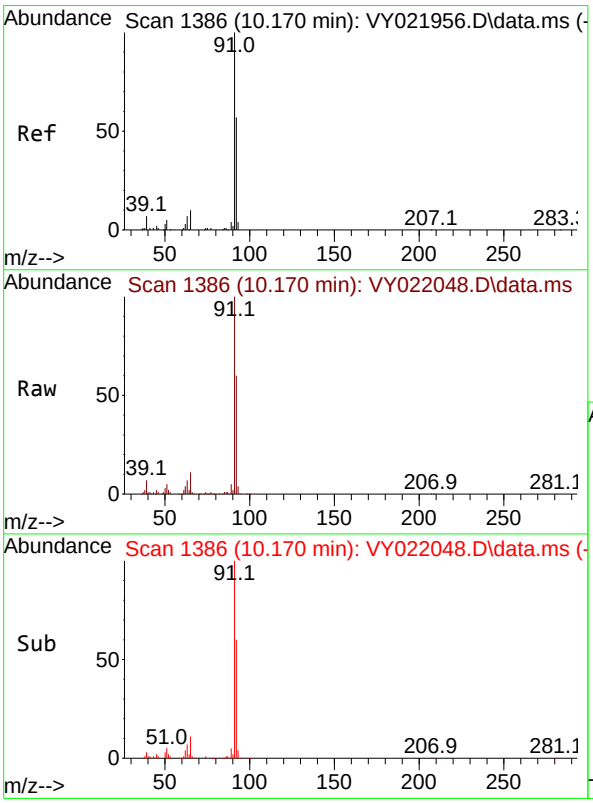
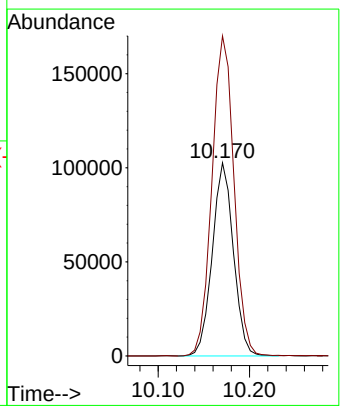
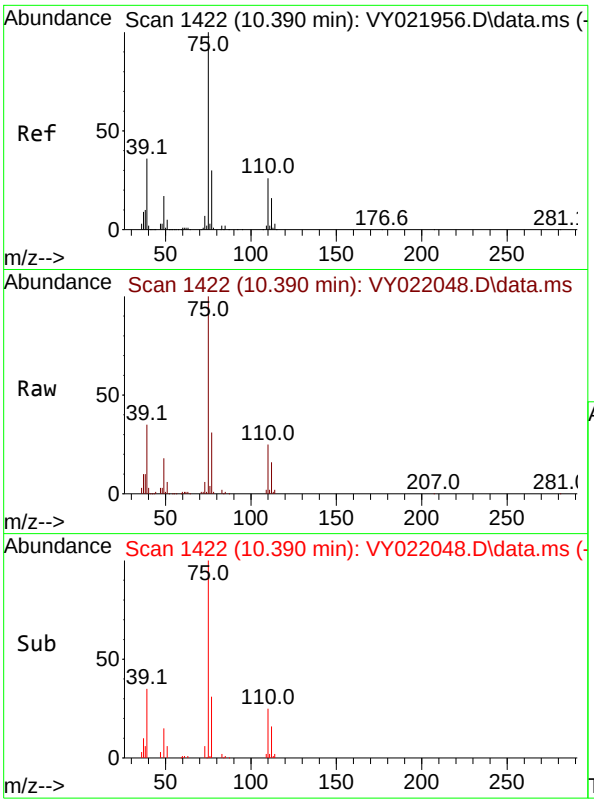


#52
Toluene
Concen: 20.141 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 92 Resp: 164777

Ion	Ratio	Lower	Upper
92	100		
91	172.8	138.6	207.8





#53
t-1,3-Dichloropropene
Concen: 19.011 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 75 Resp: 7127

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.0	36.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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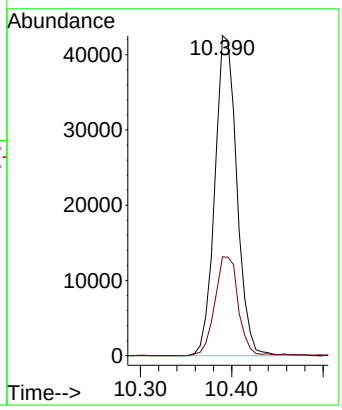
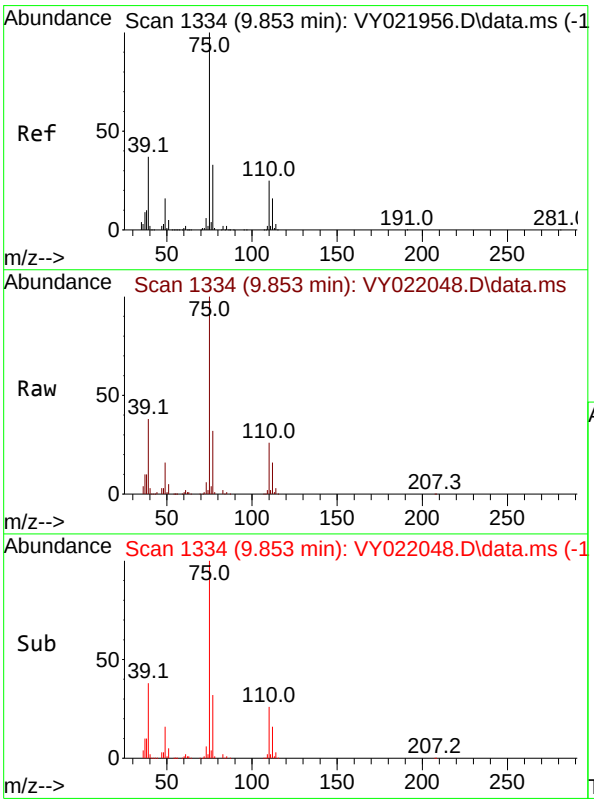
Supervised By :Mahesh Dadoda 04/30/2025

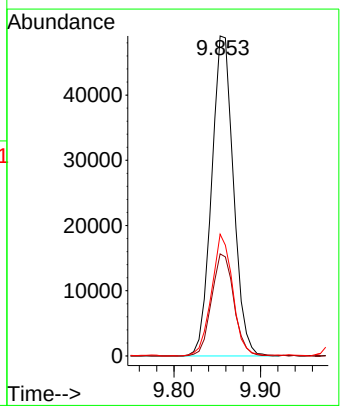


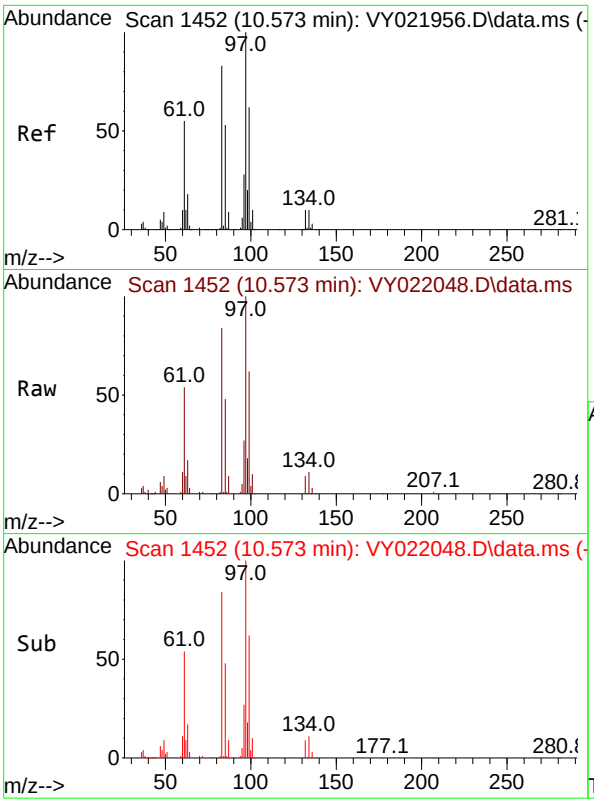


#54
cis-1,3-Dichloropropene
Concen: 19.290 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 75 Resp: 85968

Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.6	40.0
39	38.1	29.6	44.4

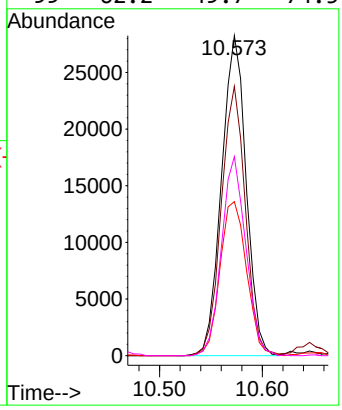




#55
1,1,2-Trichloroethane
Concen: 20.140 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 97 Resp: 4706

Ion	Ratio	Lower	Upper
97	100		
83	84.1	66.7	100.1
85	48.1	42.6	64.0
99	62.2	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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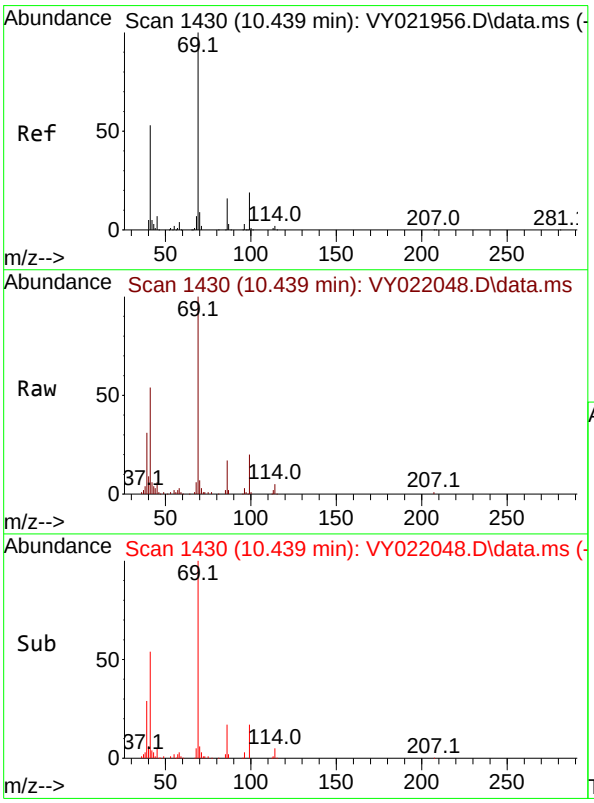
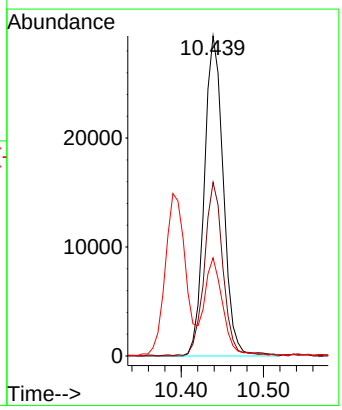
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

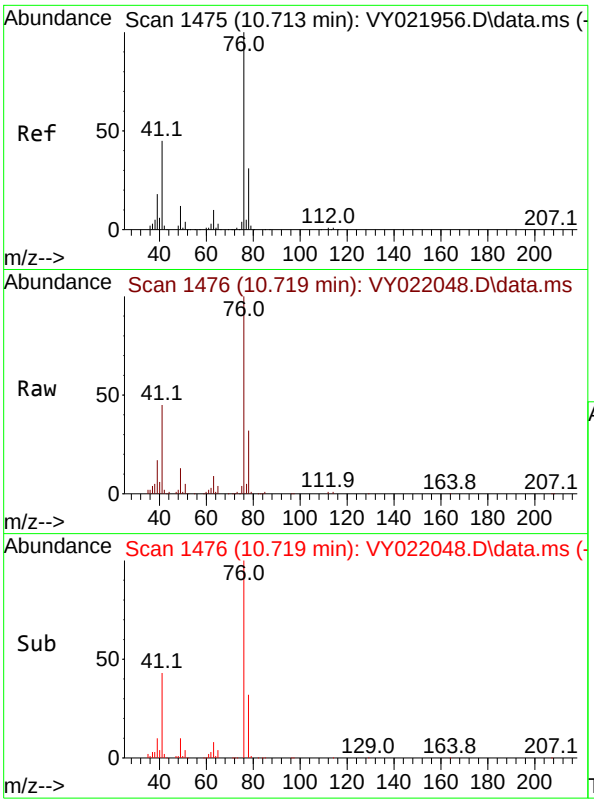


#56
Ethyl methacrylate
Concen: 17.613 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 69 Resp: 47072

Ion	Ratio	Lower	Upper
69	100		
41	53.7	40.7	61.1
39	28.4	23.3	34.9

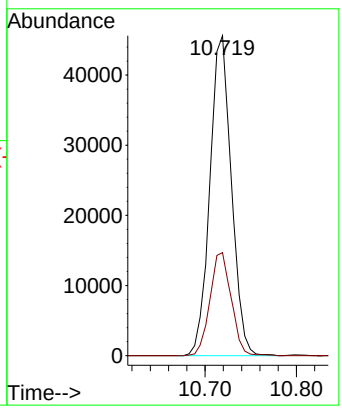




#57
1,3-Dichloropropane
Concen: 19.886 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 76 Resp: 7450

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.6	39.8



Instrument :
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ClientSampleId :
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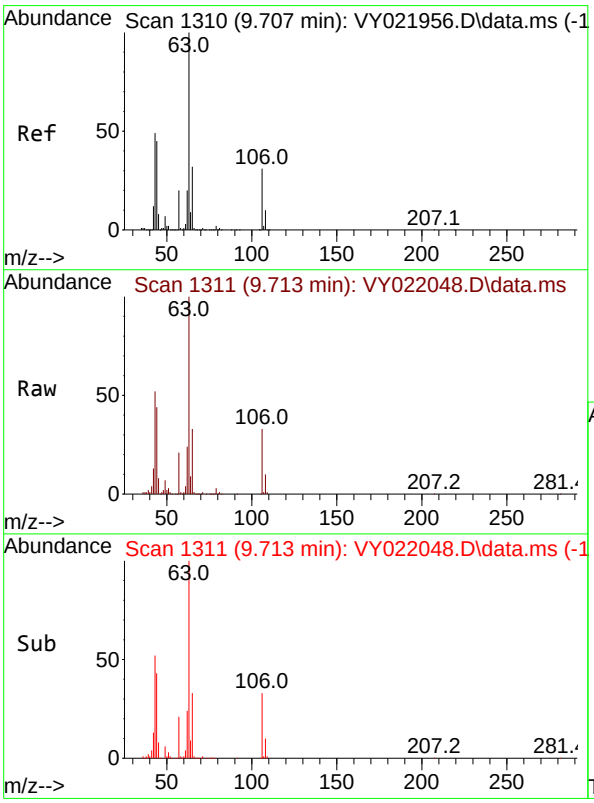
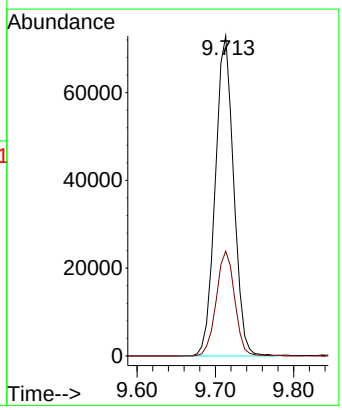
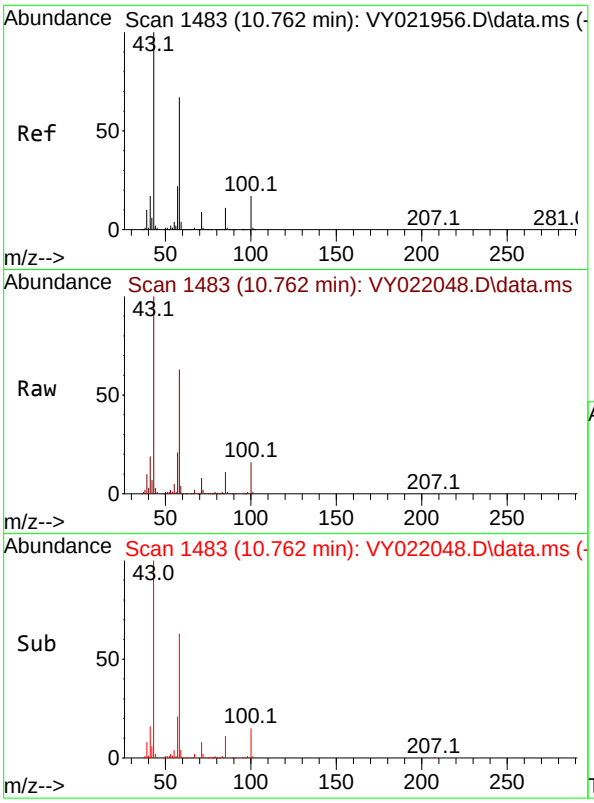


#58
2-Chloroethyl Vinyl ether
Concen: 91.185 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 63 Resp: 119153

Ion	Ratio	Lower	Upper
63	100		
106	32.8	25.3	37.9

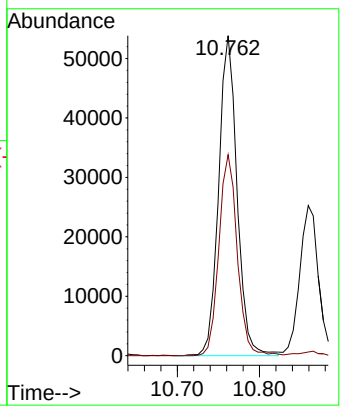




#59
2-Hexanone
Concen: 86.992 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 8387

Ion	Ratio	Lower	Upper
43	100		
58	62.6	32.0	96.0



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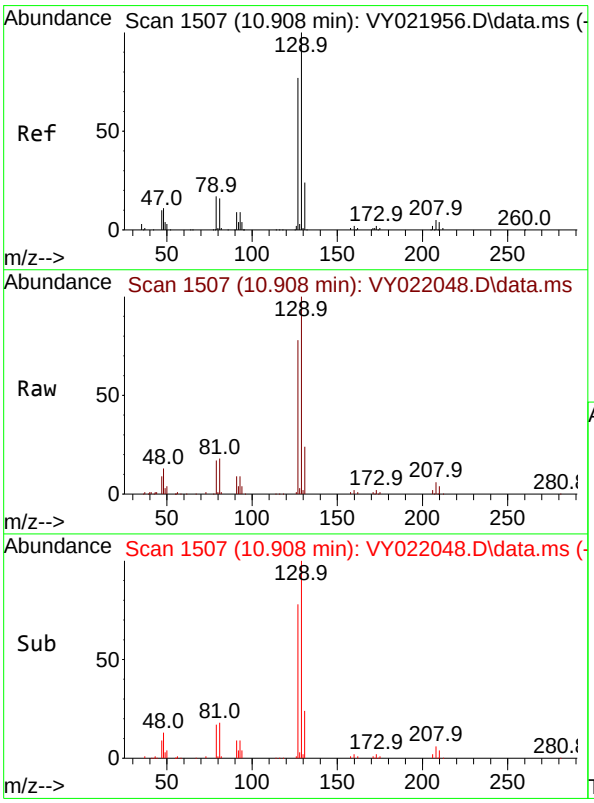
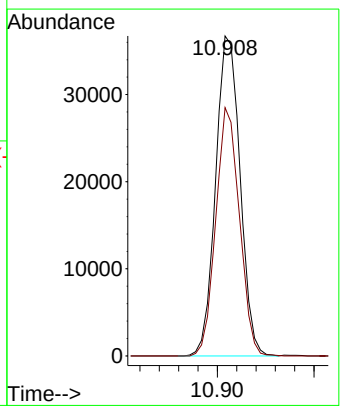
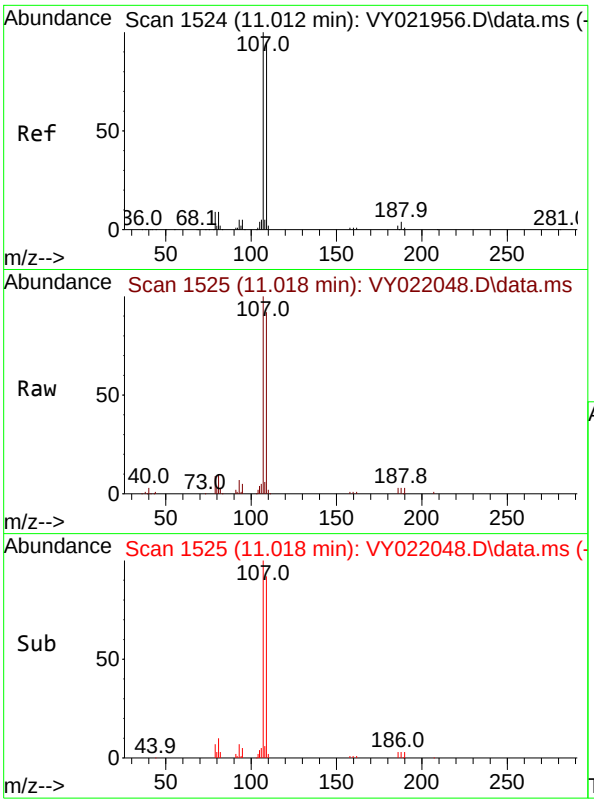


#60
Dibromochloromethane
Concen: 19.894 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:129 Resp: 64371

Ion	Ratio	Lower	Upper
129	100		
127	75.1	38.5	115.3

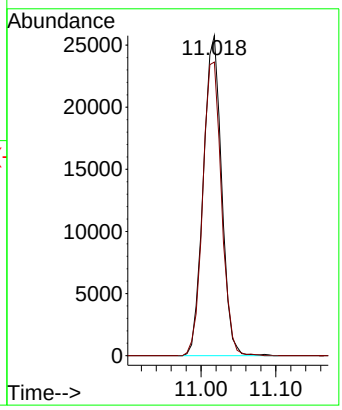




#61
1,2-Dibromoethane
Concen: 19.774 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:107 Resp: 4362

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.8	113.8



Instrument :
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ClientSampleId :
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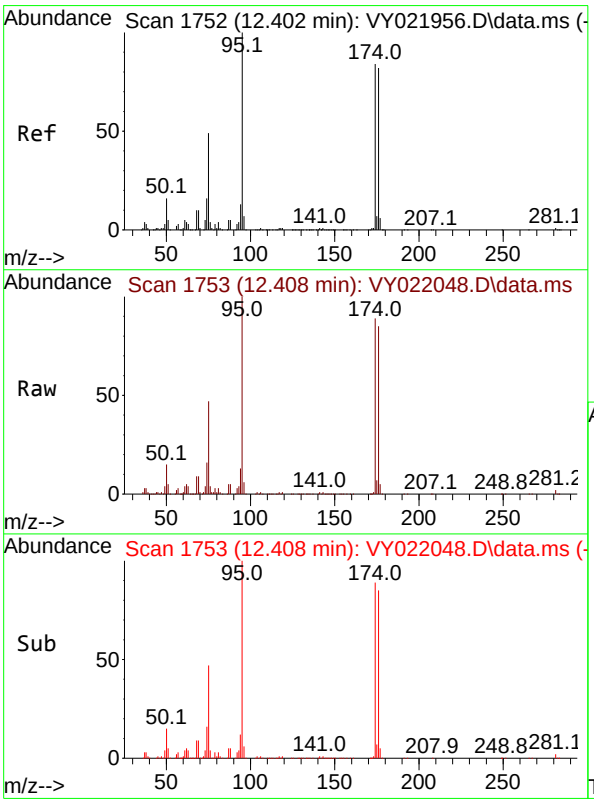
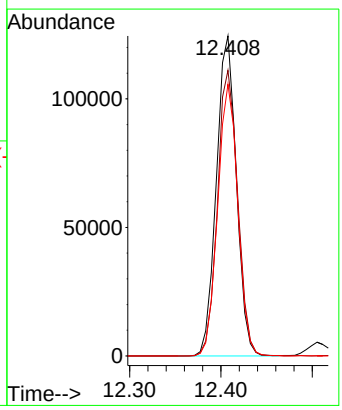
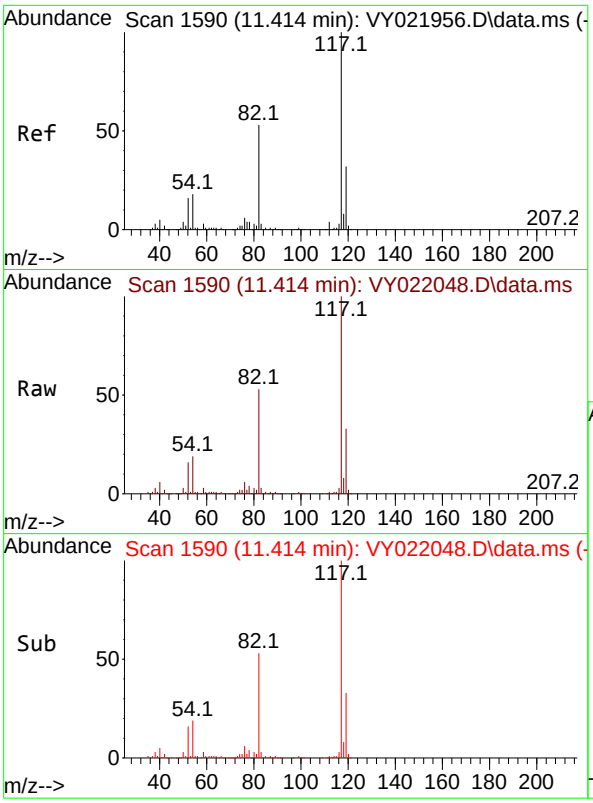


#62
4-Bromofluorobenzene
Concen: 49.628 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 95 Resp: 189577

Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	179.0
176	85.5	0.0	171.8

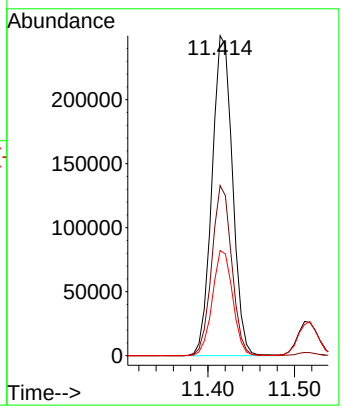




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:117 Resp: 41130

Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.1	63.1
119	32.8	25.7	38.5



Instrument :
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ClientSampleId :
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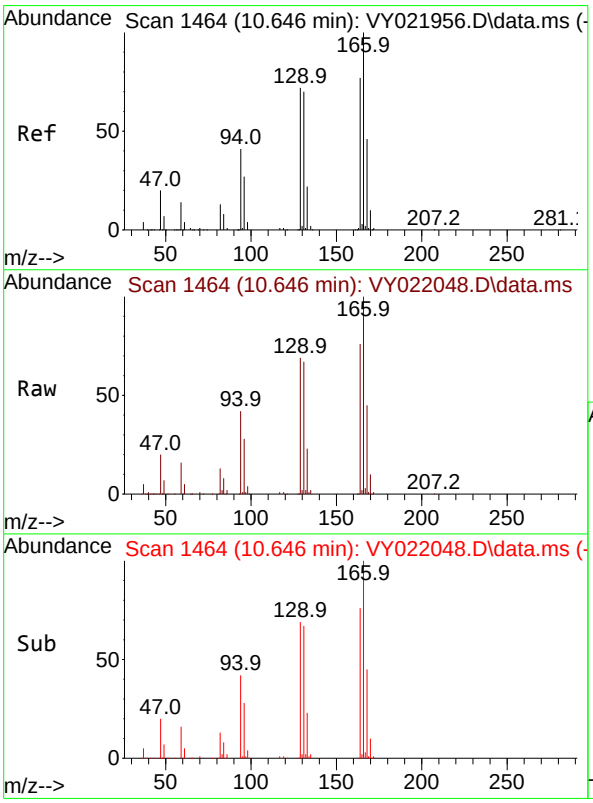
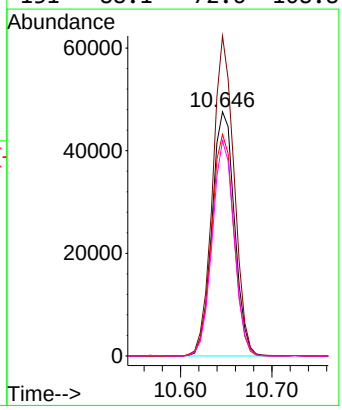
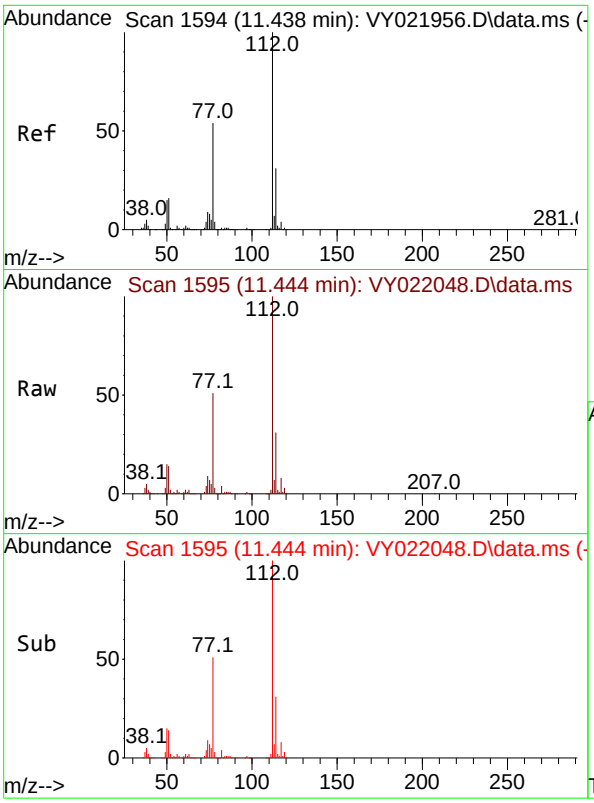


#64
Tetrachloroethene
Concen: 20.941 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:164 Resp: 81253

Ion	Ratio	Lower	Upper
164	100		
166	131.1	103.6	155.4
129	90.8	74.2	111.4
131	88.1	72.6	108.8

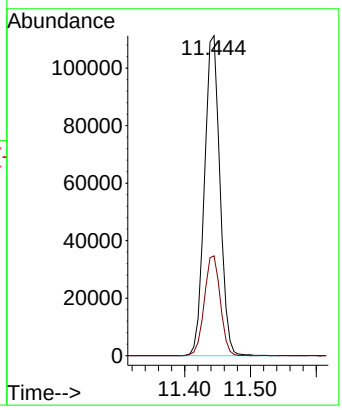




#65
Chlorobenzene
Concen: 19.792 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:112 Resp: 18204

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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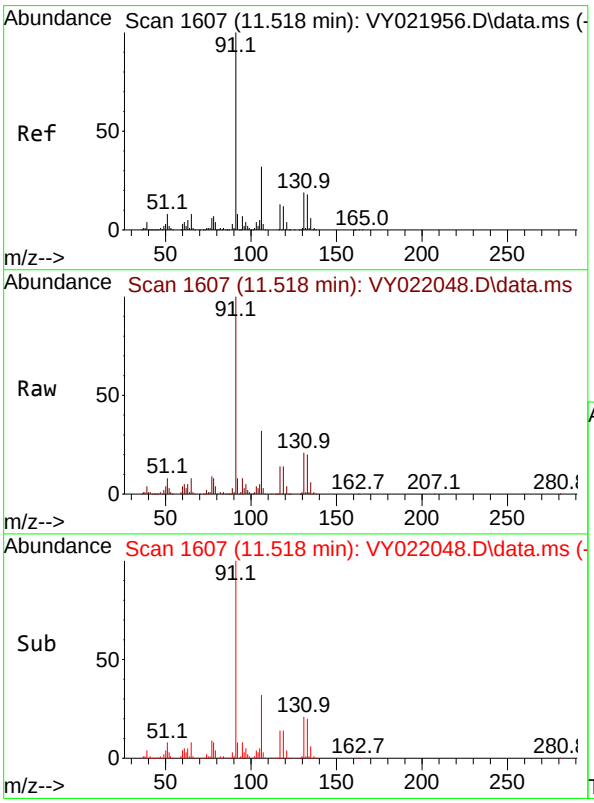
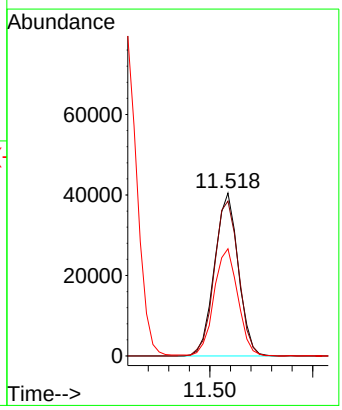
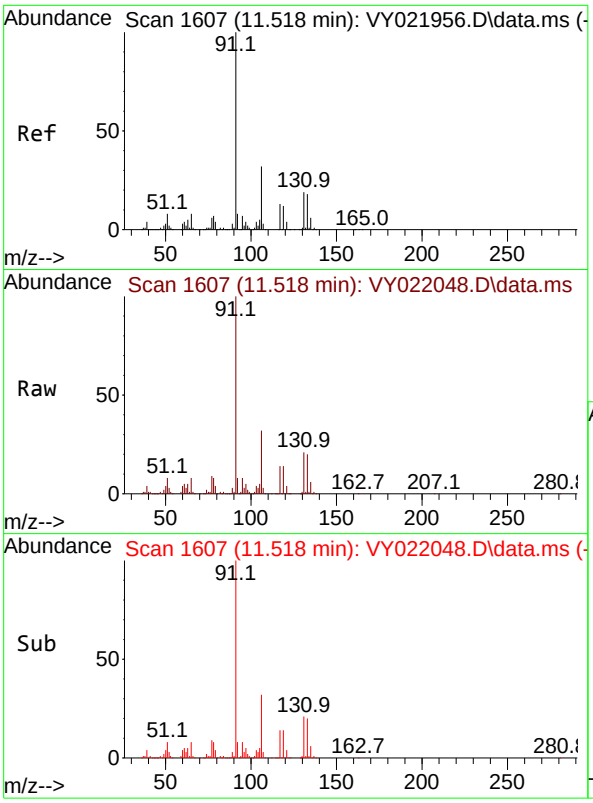


#66
1,1,1,2-Tetrachloroethane
Concen: 20.058 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:131 Resp: 64950

Ion	Ratio	Lower	Upper
131	100		
133	97.3	47.8	143.3
119	66.2	32.4	97.0

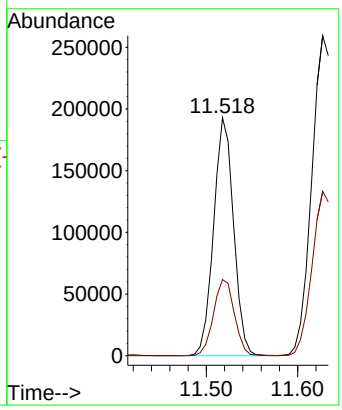




#67
Ethyl Benzene
Concen: 19.443 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 91 Resp: 29253

Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
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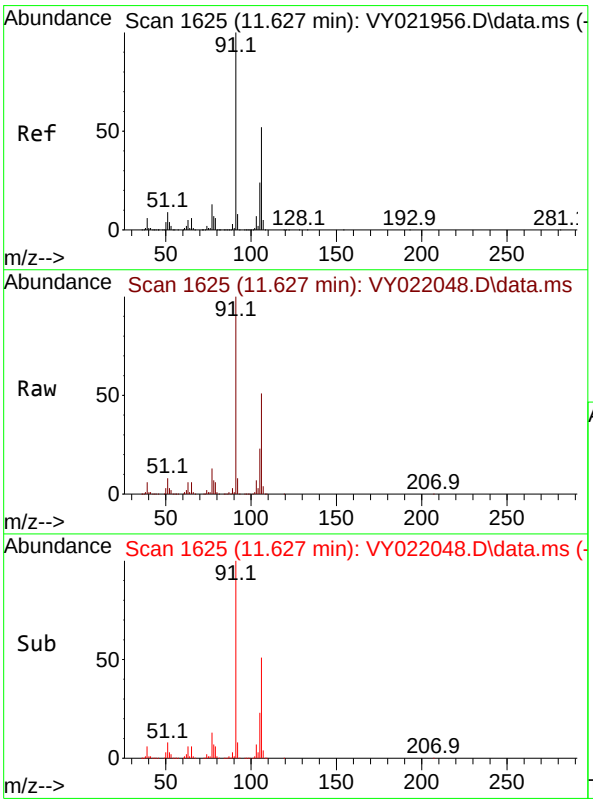
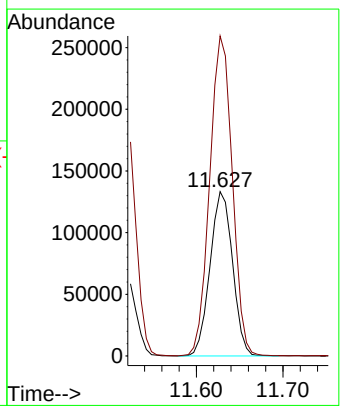
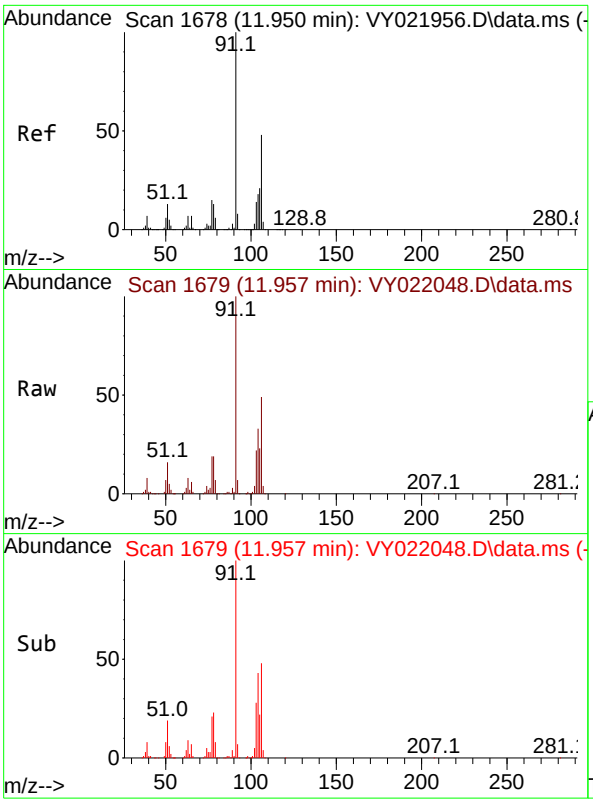


#68
m/p-Xylenes
Concen: 40.178 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:106 Resp: 240556

Ion	Ratio	Lower	Upper
106	100		
91	195.3	156.2	234.2

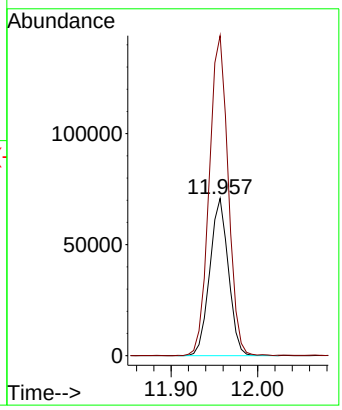




#69
o-Xylene
Concen: 19.172 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:106 Resp: 10580

Ion	Ratio	Lower	Upper
106	100		
91	207.6	103.0	308.9



Instrument :
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ClientSampleId :
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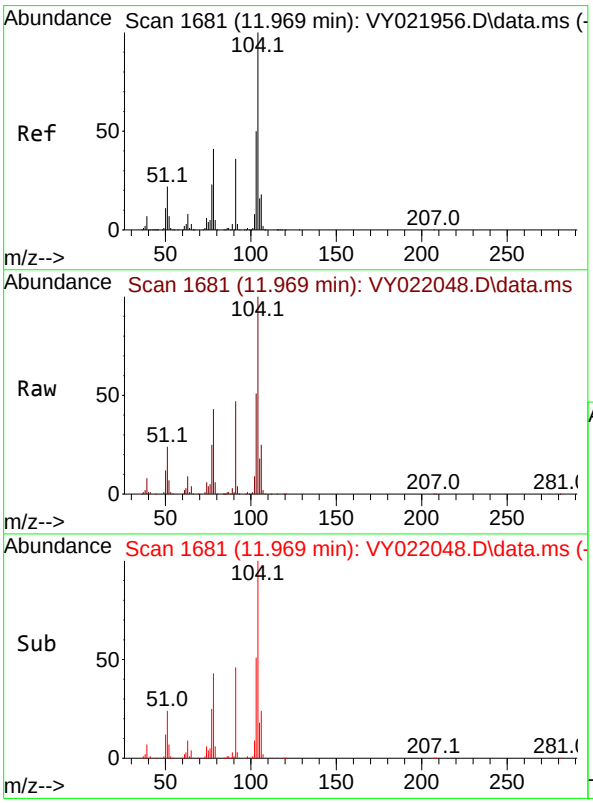
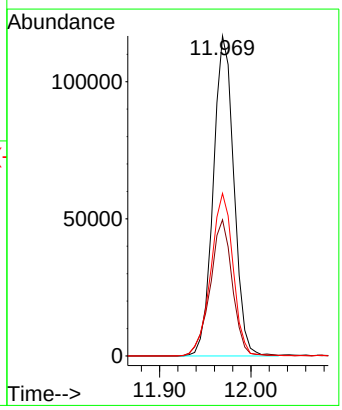
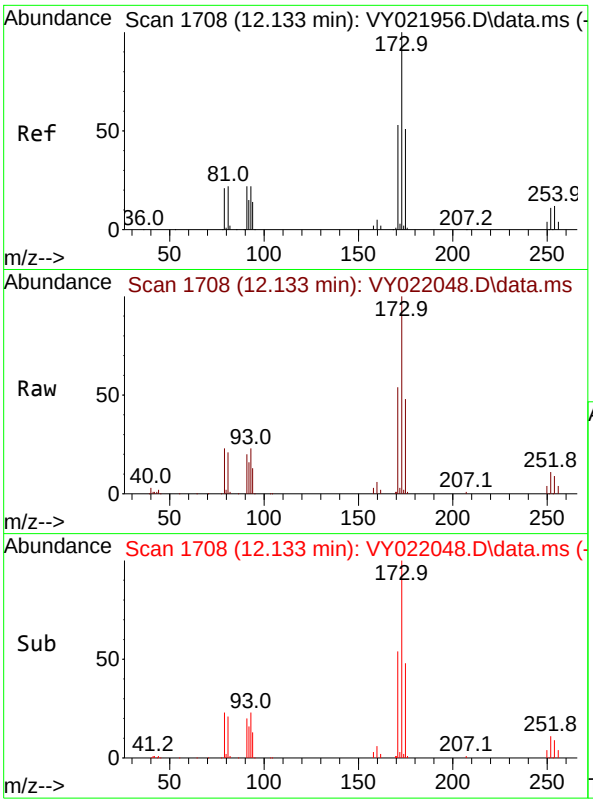


#70
Styrene
Concen: 19.770 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:104 Resp: 183180

Ion	Ratio	Lower	Upper
104	100		
78	45.6	36.6	54.8
103	54.8	43.8	65.8

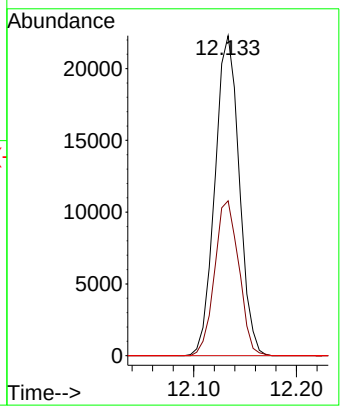




#71
Bromoform
Concen: 19.415 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:173 Resp: 3655

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
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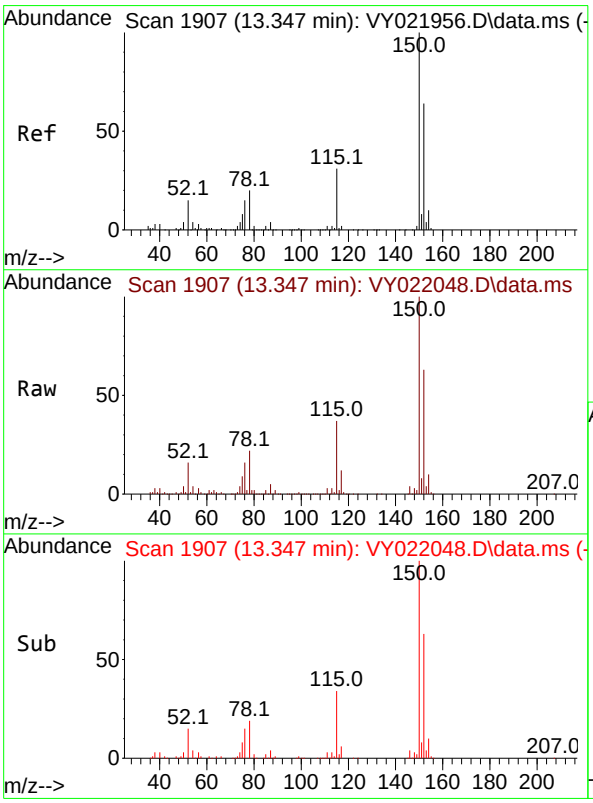
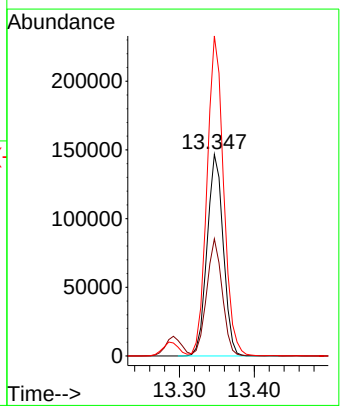
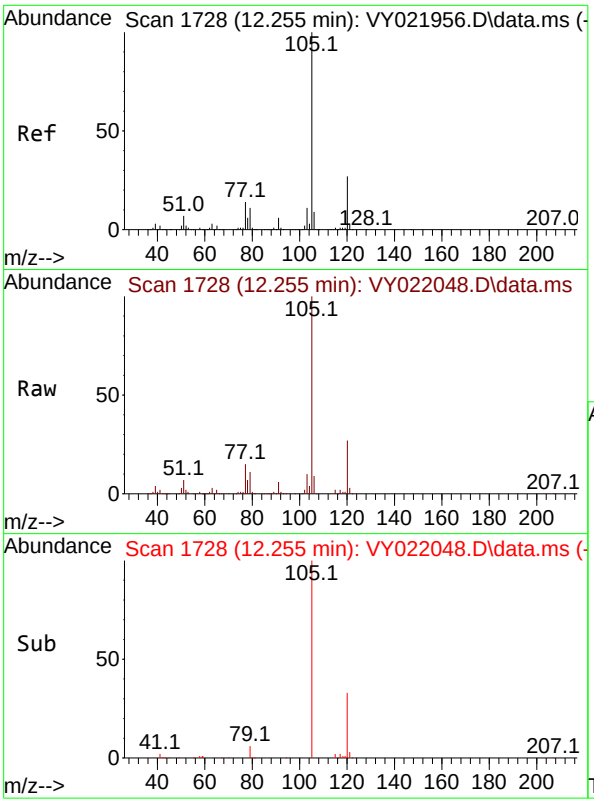


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:152 Resp: 220609

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.0	84.0
150	163.0	0.0	345.6

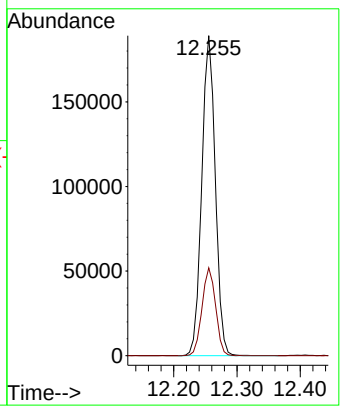




#73
Isopropylbenzene
Concen: 19.126 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:105 Resp: 28190

Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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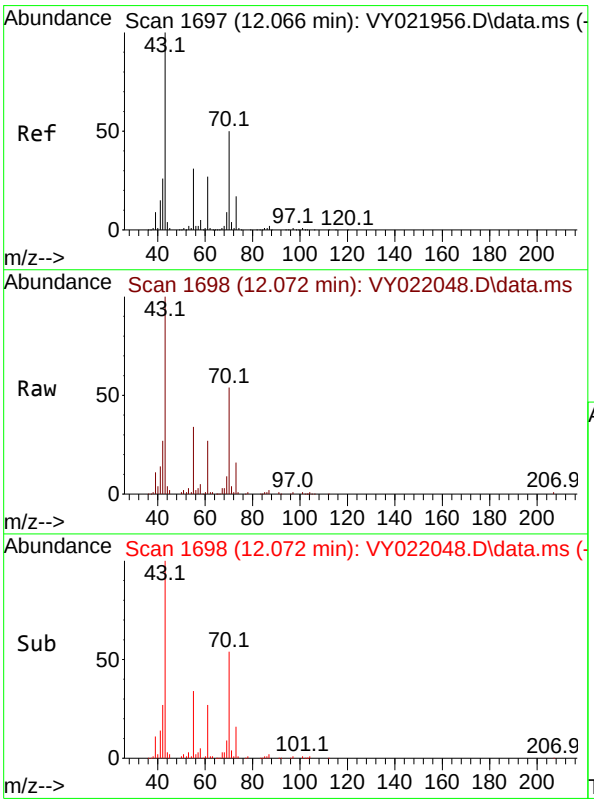
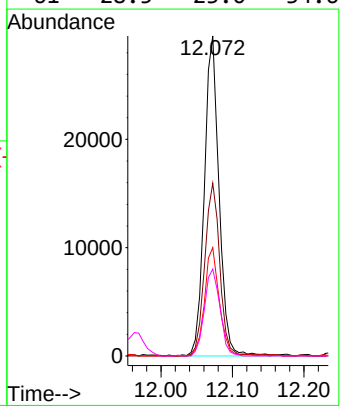
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

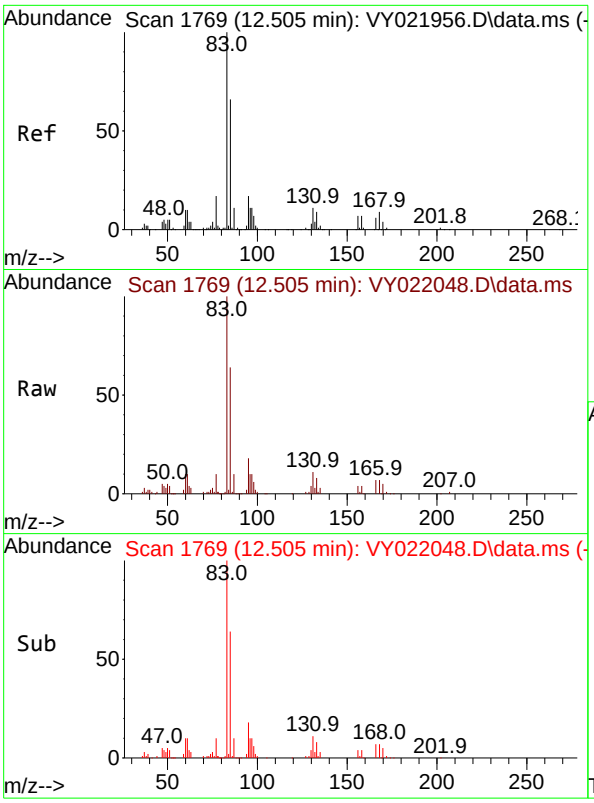


#74
N-amyl acetate
Concen: 16.664 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 43 Resp: 42199

Ion	Ratio	Lower	Upper
43	100		
70	55.3	43.2	64.8
55	34.4	25.7	38.5
61	28.5	23.0	34.6

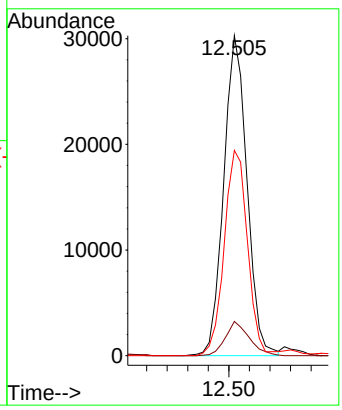




#75
1,1,2,2-Tetrachloroethane
Concen: 19.146 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 83 Resp: 4757

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.5	16.4
85	64.3	32.3	96.8



Instrument :
MSVOA_Y
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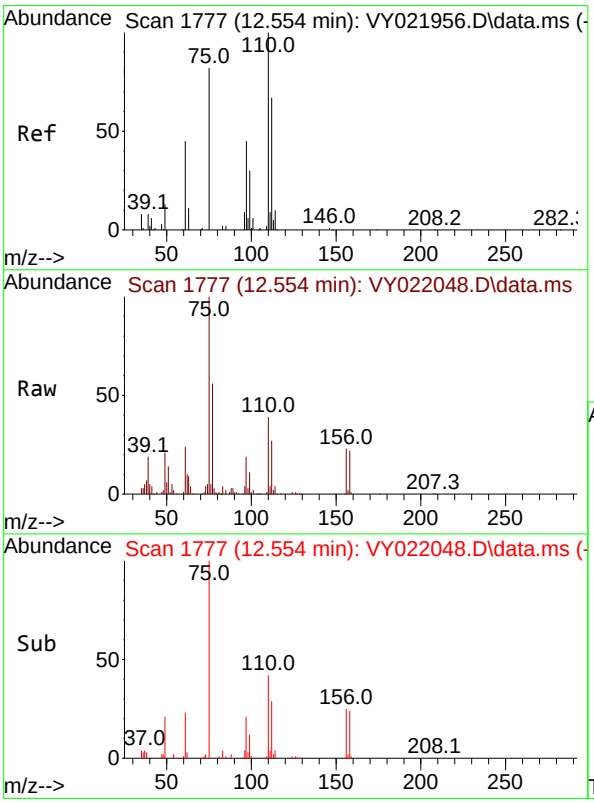
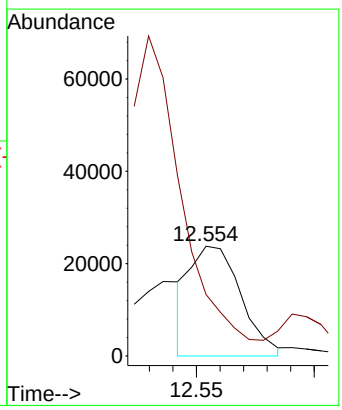
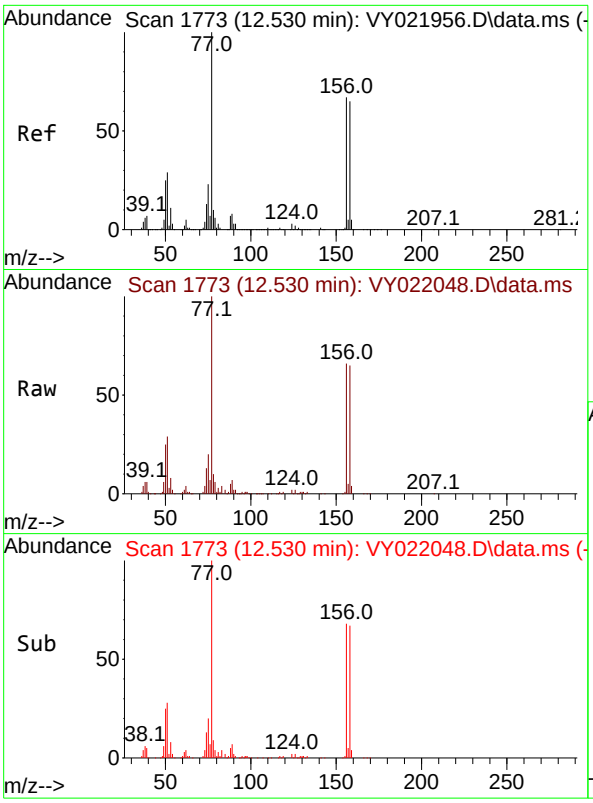


#76
1,2,3-Trichloropropane
Concen: 18.871 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 75 Resp: 35659

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

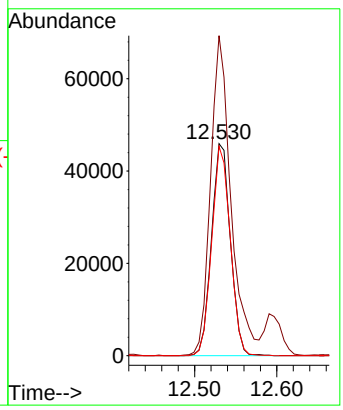




#77
Bromobenzene
Concen: 19.665 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:156 Resp: 7323

Ion	Ratio	Lower	Upper
156	100		
77	163.5	82.7	248.1
158	97.0	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
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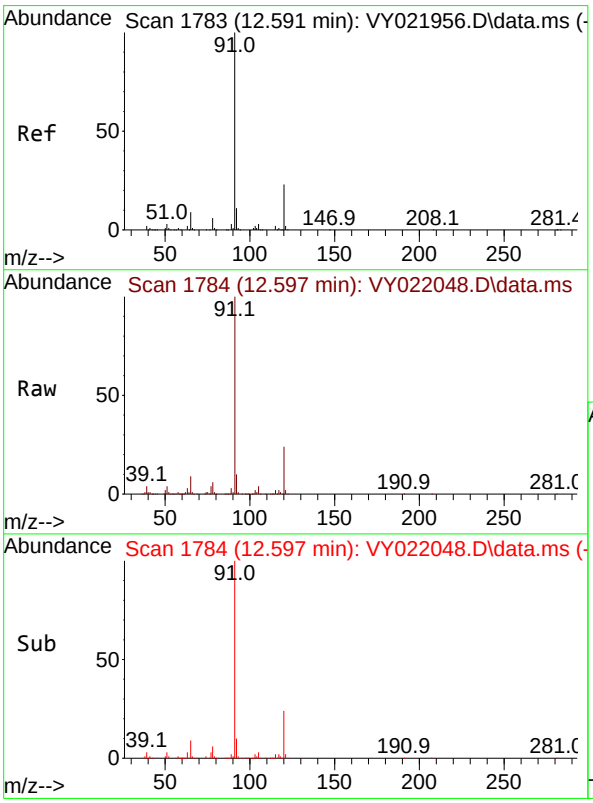
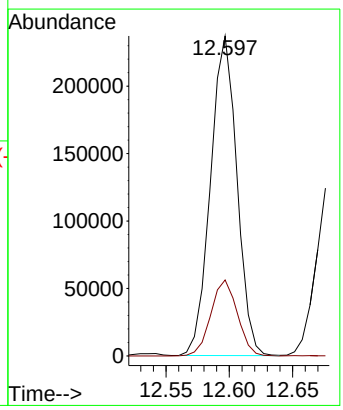
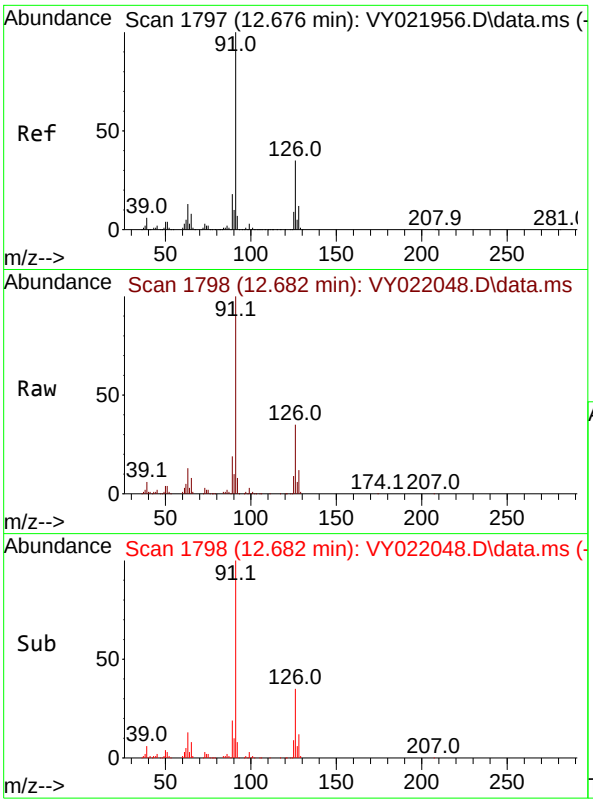


#78
n-propylbenzene
Concen: 19.616 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 91 Resp: 344311

Ion	Ratio	Lower	Upper
91	100		
120	23.8	11.9	35.5

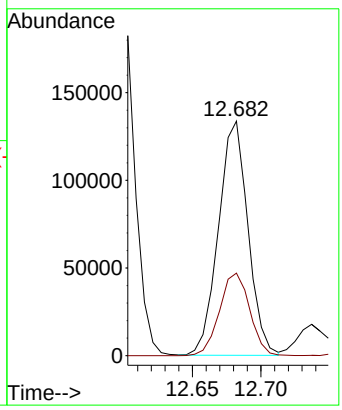




#79
2-Chlorotoluene
Concen: 19.600 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 91 Resp: 20006

Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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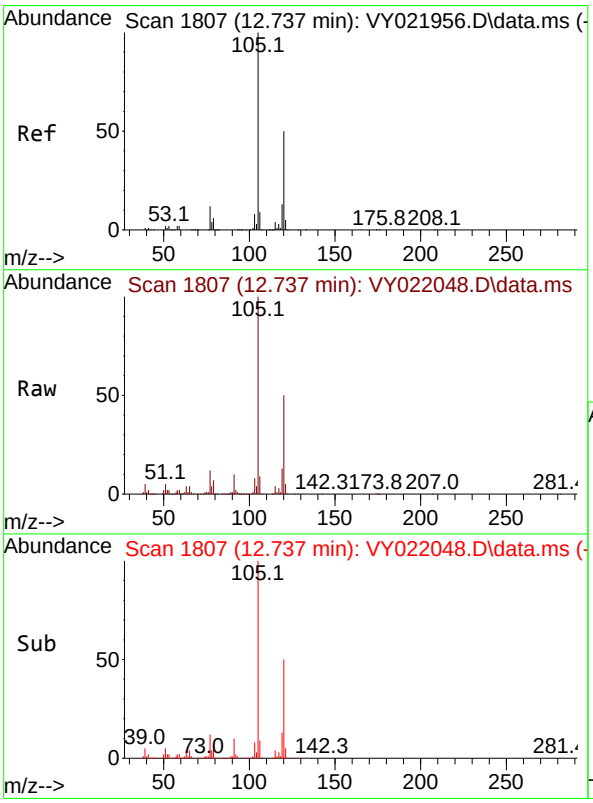
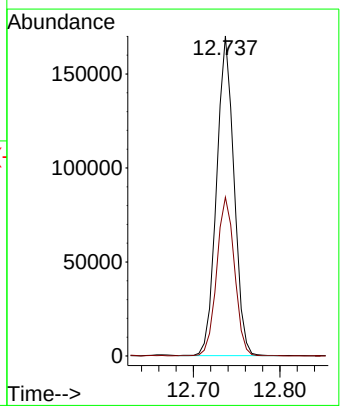
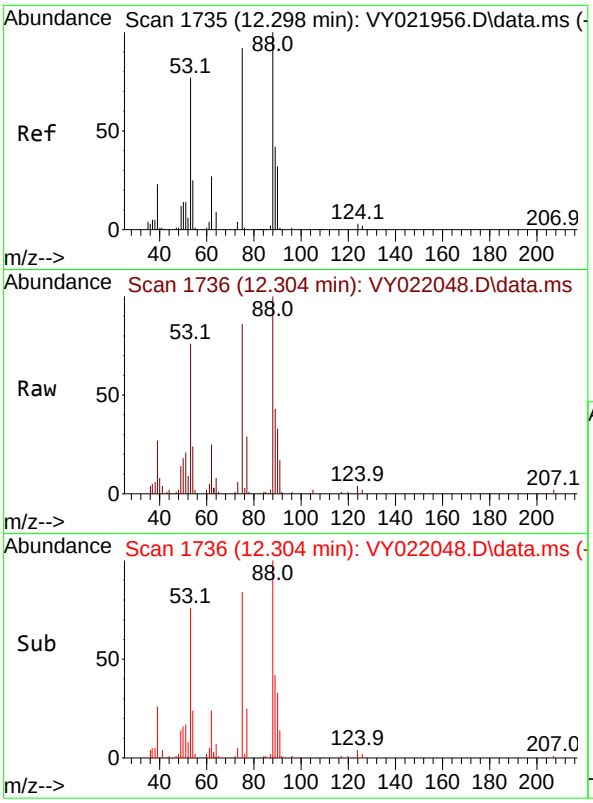


#80
1,3,5-Trimethylbenzene
Concen: 19.536 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:105 Resp: 237244

Ion	Ratio	Lower	Upper
105	100		
120	50.6	25.0	75.0

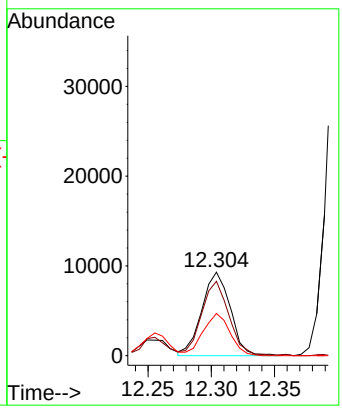




#81
trans-1,4-Dichloro-2-butene
Concen: 18.558 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 75 Resp: 1456

Ion	Ratio	Lower	Upper
75	100		
53	86.7	66.0	99.0
89	47.3	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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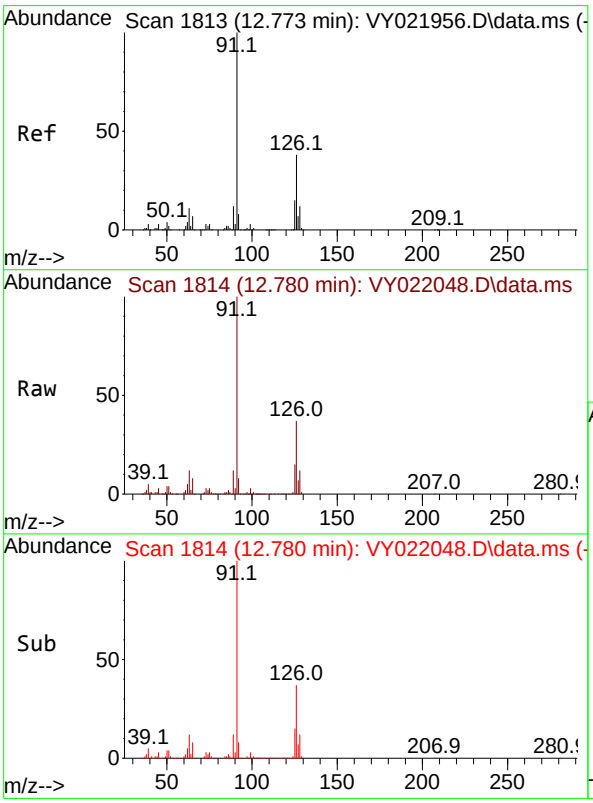
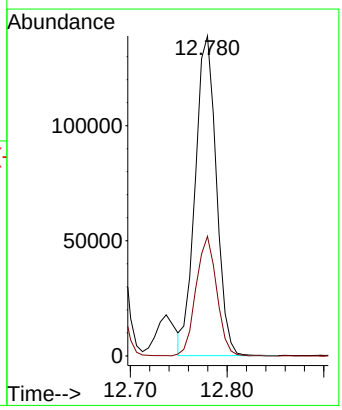
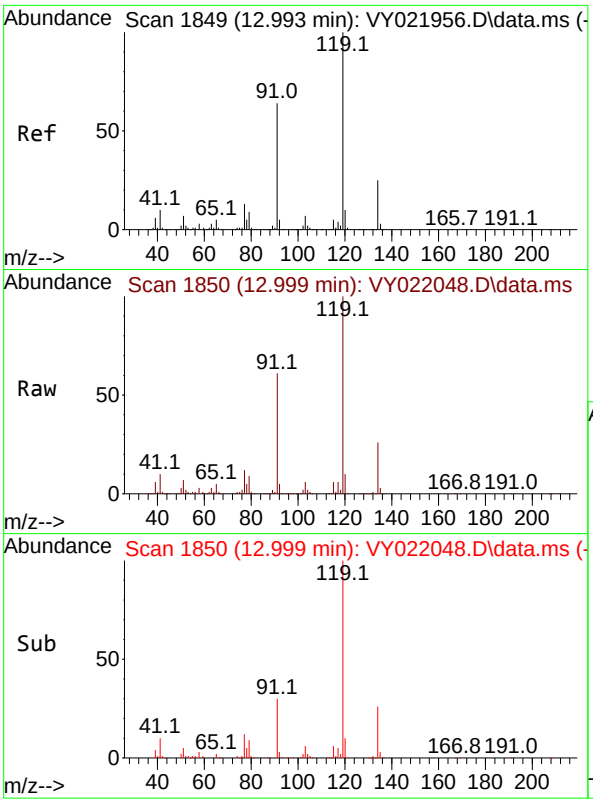


#82
4-Chlorotoluene
Concen: 19.868 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 91 Resp: 210828

Ion	Ratio	Lower	Upper
91	100		
126	36.9	17.9	53.8





#83
tert-Butylbenzene
Concen: 18.929 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:119 Resp: 20616

Ion	Ratio	Lower	Upper
119	100		
91	62.2	30.3	90.9
134	26.7	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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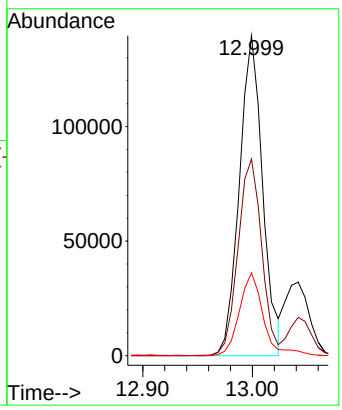
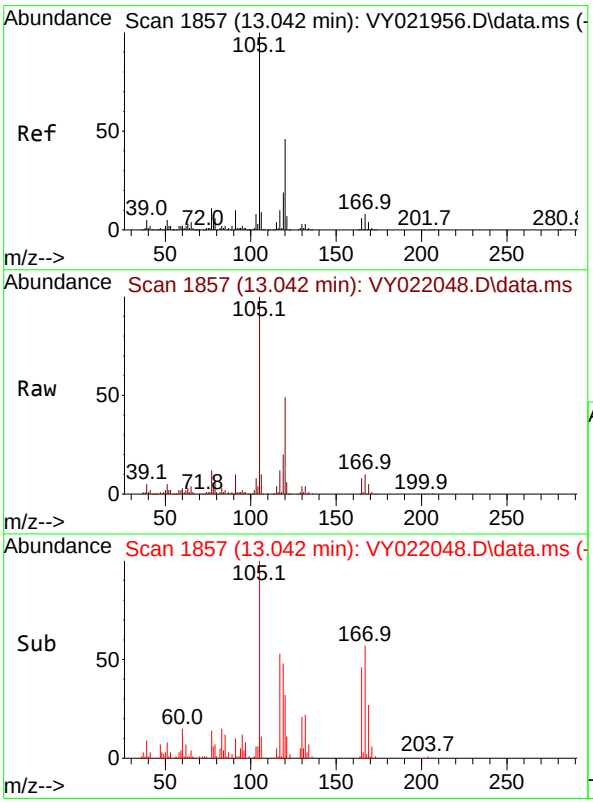
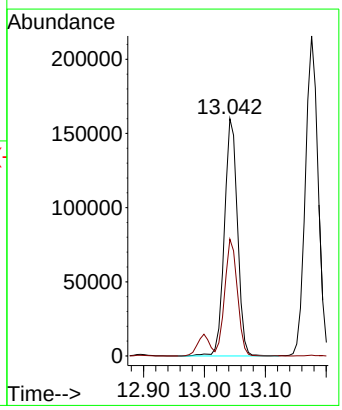


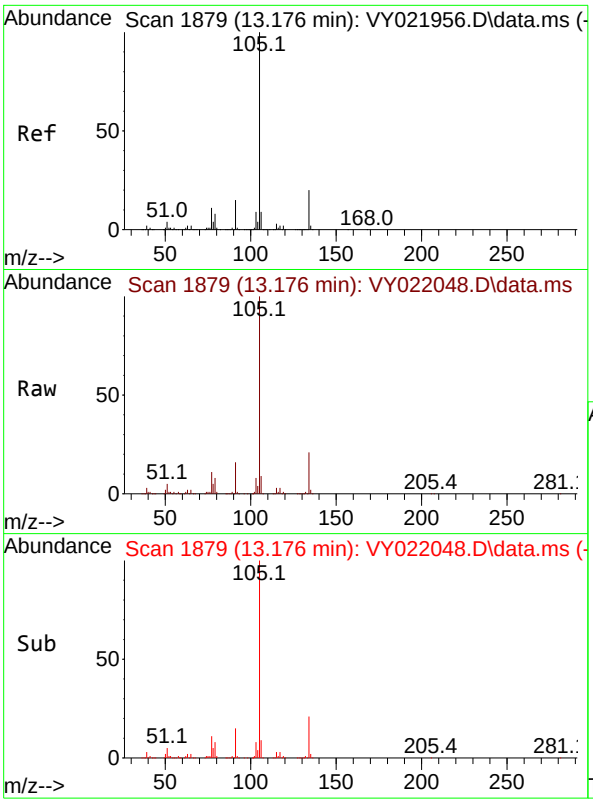


#84
1,2,4-Trimethylbenzene
Concen: 19.614 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:105 Resp: 238254

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.4	70.0

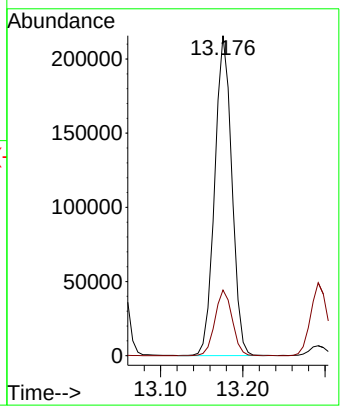




#85
sec-Butylbenzene
Concen: 19.572 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:105 Resp: 31192

Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
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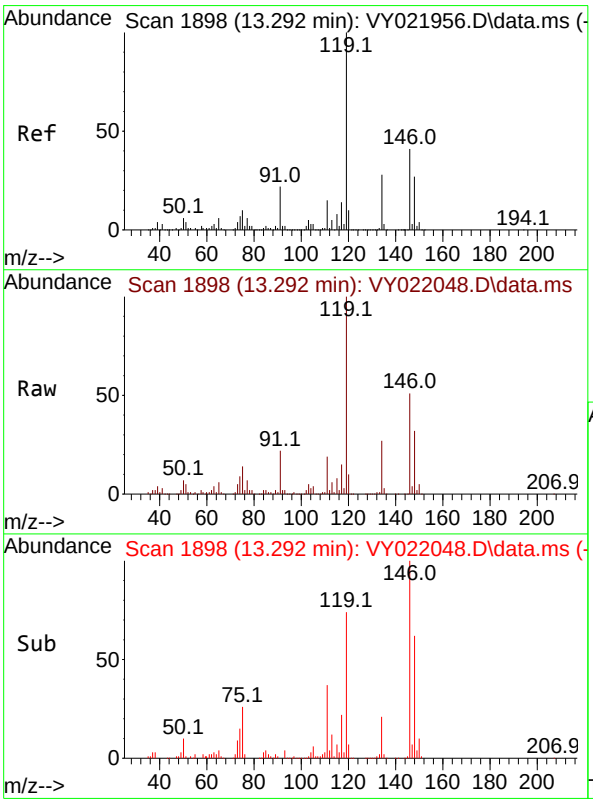
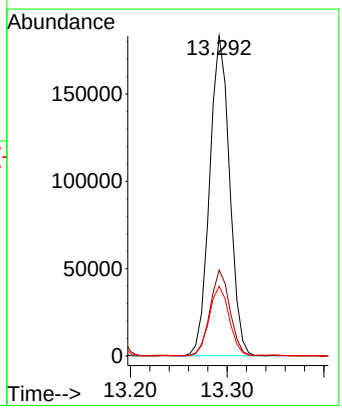
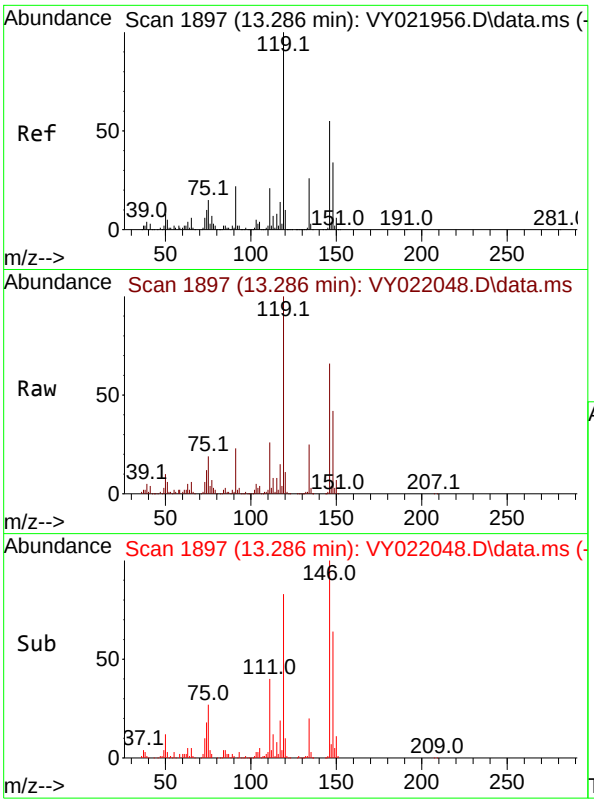


#86
p-Isopropyltoluene
Concen: 19.412 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:119 Resp: 262713

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.6	40.7
91	21.7	11.0	33.0

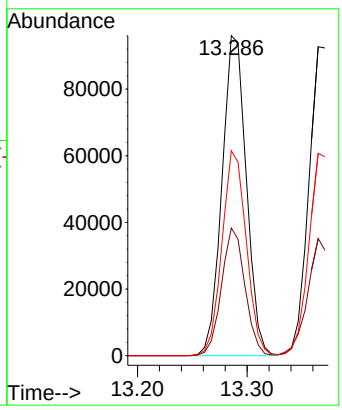




#87
1,3-Dichlorobenzene
Concen: 19.576 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:146 Resp: 14808

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.5
148	63.9	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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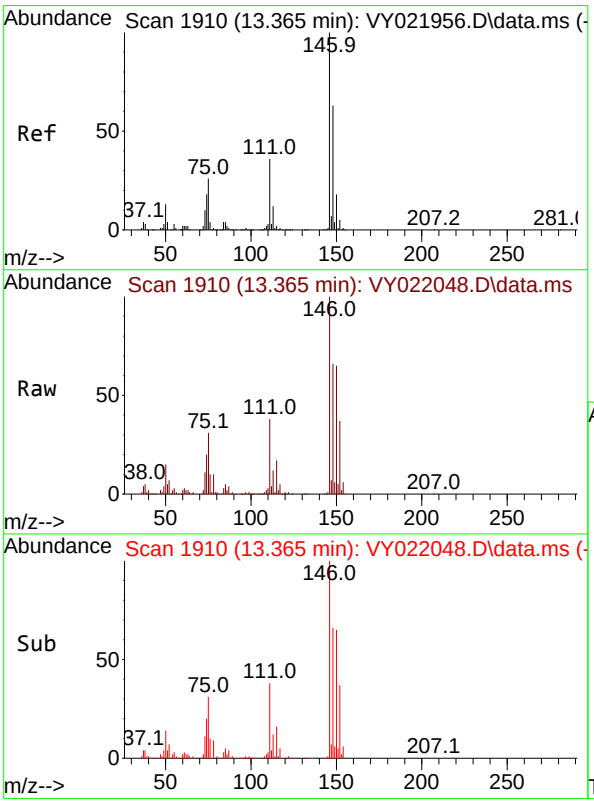
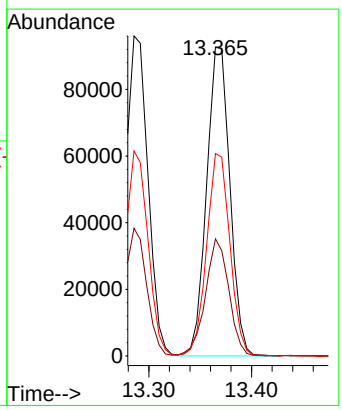
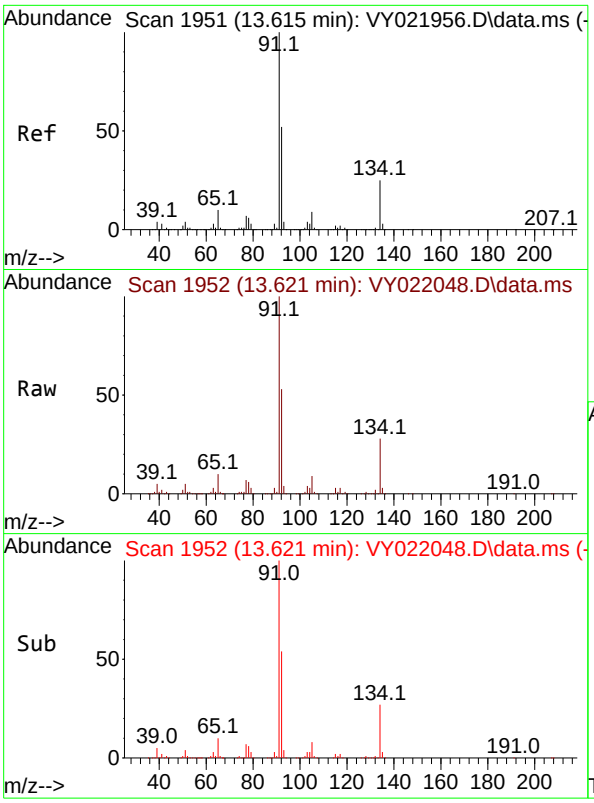


#88
1,4-Dichlorobenzene
Concen: 19.474 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:146 Resp: 145893

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.2	57.6
148	65.6	32.0	96.0

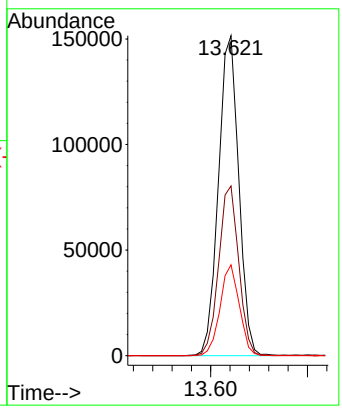




#89
n-Butylbenzene
Concen: 18.247 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 91 Resp: 22072

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.5	79.5
134	27.0	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

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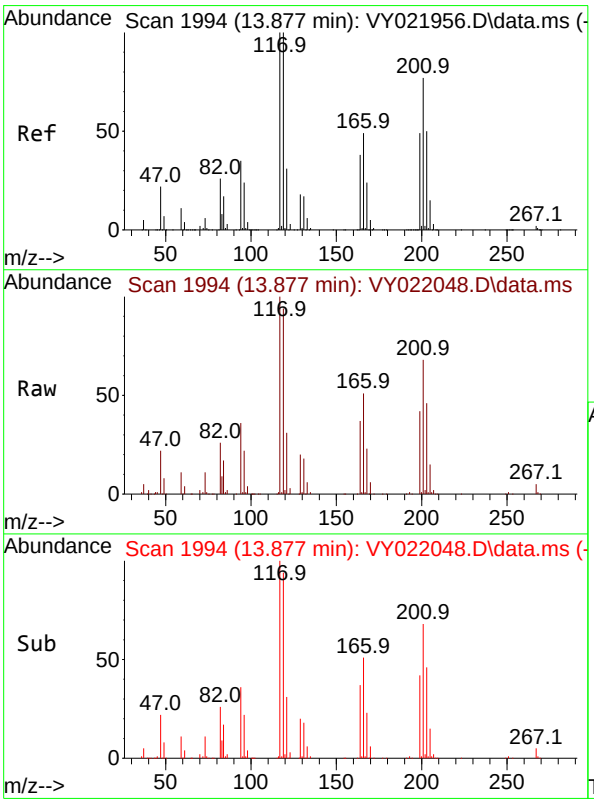
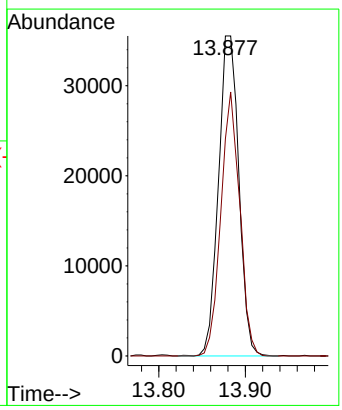
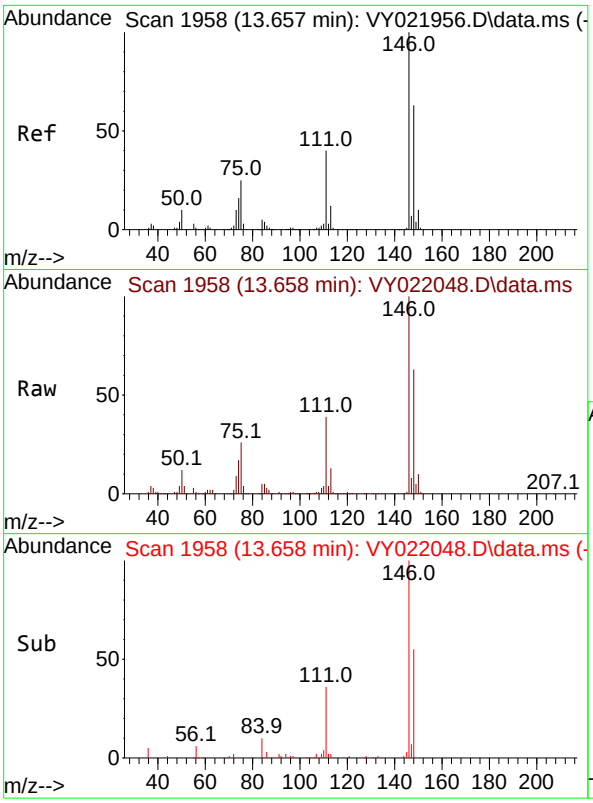


#90
Hexachloroethane
Concen: 19.525 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:117 Resp: 58056

Ion	Ratio	Lower	Upper
117	100		
201	76.5	38.7	116.1

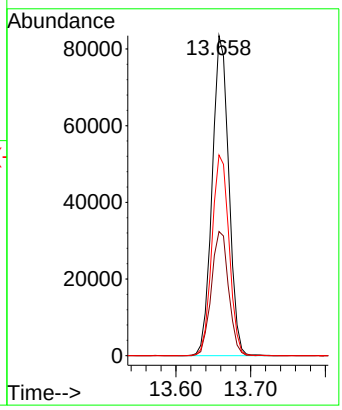




#91
1,2-Dichlorobenzene
Concen: 19.546 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:146 Resp: 12895

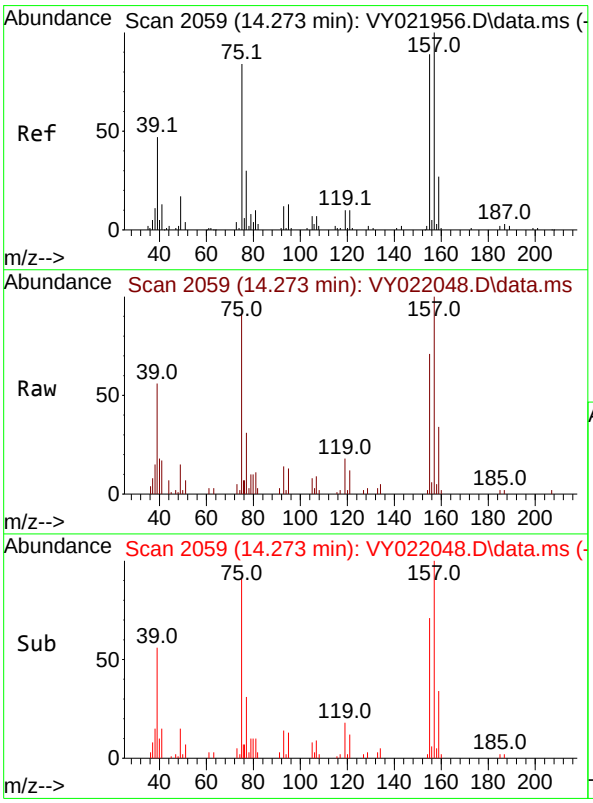
Ion	Ratio	Lower	Upper
146	100		
111	40.3	19.7	59.1
148	64.5	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
APPROVED

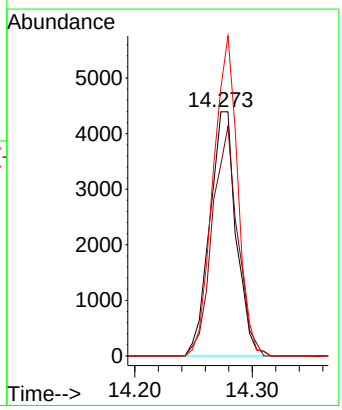
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

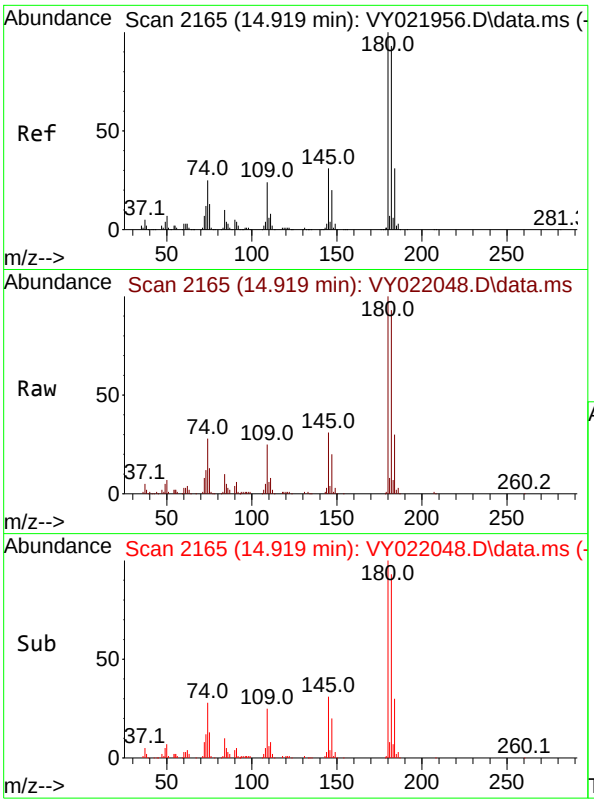


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.400 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion: 75 Resp: 6879

Ion	Ratio	Lower	Upper
75	100		
155	89.7	50.7	152.3
157	121.0	62.6	187.8

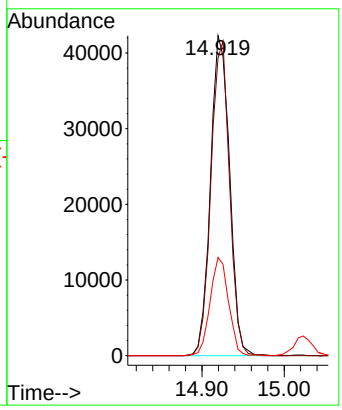




#93
1,2,4-Trichlorobenzene
Concen: 18.255 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:180 Resp: 6824

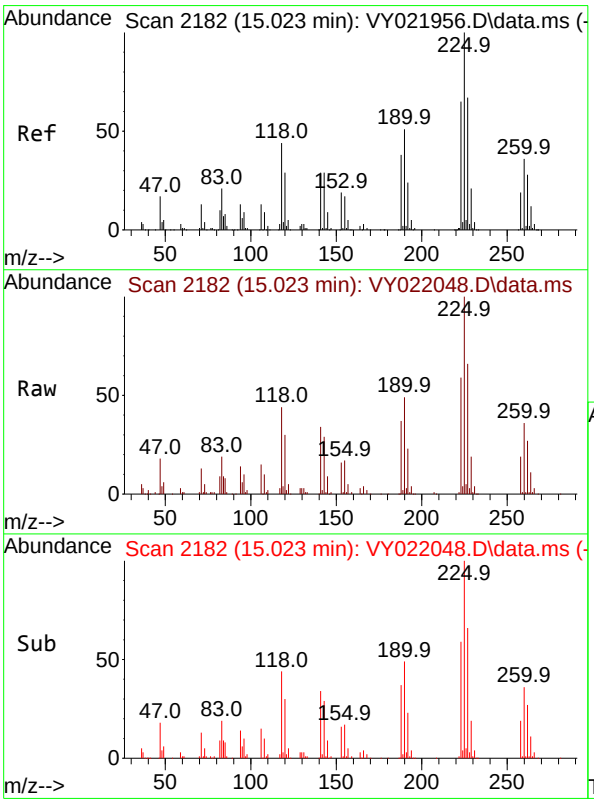
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.1	141.4
145	29.6	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
APPROVED

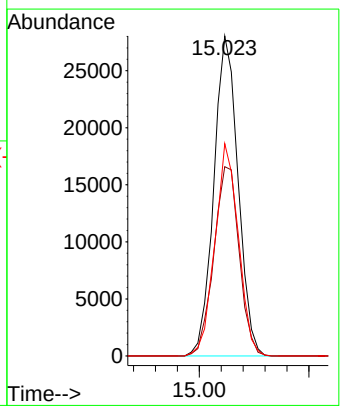
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

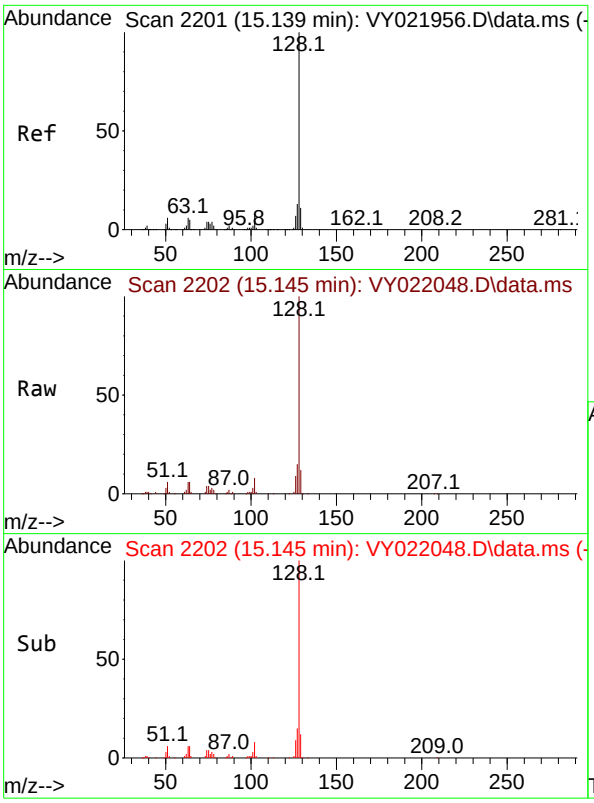


#94
Hexachlorobutadiene
Concen: 18.730 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:225 Resp: 43083

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.9	95.5
227	64.3	32.3	96.9

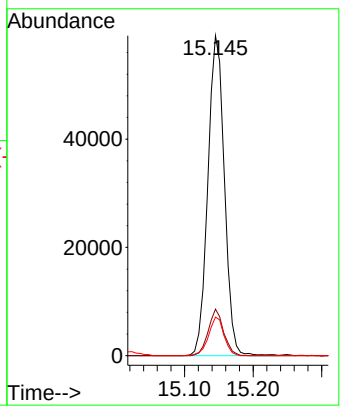




#95
Naphthalene
Concen: 15.964 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:128 Resp: 9914

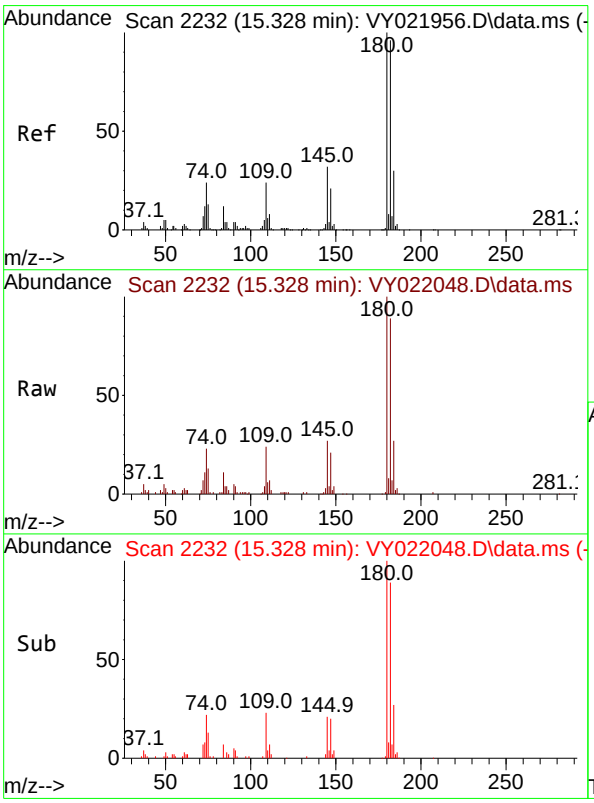
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	16.0
129	11.3	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
APPROVED

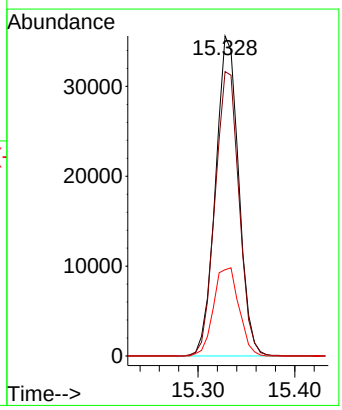
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.341 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022048.D
Acq: 29 Apr 2025 10:31

Tgt Ion:180 Resp: 59189

Ion	Ratio	Lower	Upper
180	100		
182	91.8	48.1	144.4
145	30.3	16.0	48.0



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBSD01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022024.D	1		04/28/25 12:02	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.79	5.00	ug/Kg
141-78-6	Ethyl Acetate	20.2		1.30	5.00	ug/Kg
108-21-4	Isopropyl Acetate	19.4		0.91	5.00	ug/Kg
74-83-9	Bromomethane	20.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.3		1.30	5.00	ug/Kg
109-99-9	Tetrahydrofuran	95.0		4.70	25.0	ug/Kg
75-69-4	Trichlorofluoromethane	19.5		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	94.5		13.7	25.0	ug/Kg
60-29-7	Diethyl Ether	18.7		0.77	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.6		1.00	5.00	ug/Kg
107-02-8	Acrolein	80.4		8.80	25.0	ug/Kg
107-13-1	Acrylonitrile	94.6		5.00	25.0	ug/Kg
67-64-1	Acetone	91.7		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.6		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	20.4		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.6		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.0		0.86	5.00	ug/Kg
108-05-4	Vinyl Acetate	95.9		4.90	25.0	ug/Kg
75-34-3	1,1-Dichloroethane	19.7		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	91.2		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	20.1		1.30	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	20.5		0.84	5.00	ug/Kg

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBSD01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022024.D	1		04/28/25 12:02	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.6		0.91	5.00	ug/Kg
563-58-6	1,1-Dichloropropene	20.3		0.87	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.2		0.91	5.00	ug/Kg
74-95-3	Dibromomethane	20.4		0.89	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.5		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.4		3.60	25.0	ug/Kg
80-62-6	Methyl methacrylate	18.7		0.74	5.00	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.0		0.92	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	20.1		0.68	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	95.4		3.80	25.0	ug/Kg
591-78-6	2-Hexanone	95.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	20.6		0.77	5.00	ug/Kg
67-72-1	Hexachloroethane	19.6		1.10	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.20	10.0	ug/Kg
1330-20-7	Total Xylenes	60.3		2.02	15.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	20.2		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.78	5.00	ug/Kg

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBSD01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022024.D	1		04/28/25 12:02	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1.20	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	18.8		1.20	5.00	ug/Kg
108-86-1	Bromobenzene	20.4		1.20	5.00	ug/Kg
103-65-1	n-propylbenzene	19.8		0.73	5.00	ug/Kg
95-49-8	2-Chlorotoluene	19.8		0.68	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19.8		0.82	5.00	ug/Kg
106-43-4	4-Chlorotoluene	20.3		1.20	5.00	ug/Kg
98-06-6	tert-Butylbenzene	19.4		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20.0		0.64	5.00	ug/Kg
135-98-8	sec-Butylbenzene	19.6		0.66	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	19.8		0.62	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.4		1.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	19.0		1.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		3.00	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	20.2		1.90	5.00	ug/Kg
91-20-3	Naphthalene	17.7		2.60	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
628-63-7	N-amyl acetate	18.0		0.97	5.00	ug/Kg
74-88-4	Methyl Iodide	20.0		0.91	5.00	ug/Kg
107-05-1	Allyl chloride	19.0		0.78	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	19.0		1.10	5.00	ug/Kg
126-98-7	Methacrylonitrile	18.4		1.80	5.00	ug/Kg
108-20-3	Diisopropyl ether	19.8		0.55	5.00	ug/Kg
123-91-1	1,4-Dioxane	400		48.1	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VY0428SBSD01	SDG No.:	Q1872
Lab Sample ID:	VY0428SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022024.D	1		04/28/25 12:02	VY042825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
460-00-4	4-Bromofluorobenzene	48.8		38 - 136	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 - 134	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	467000	8.616			
3114-55-4	Chlorobenzene-d5	430000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	229000	13.347			

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\VY042825\
Data File : VY022024.D
Acq On : 28 Apr 2025 12:02
Operator : SY/MD
Sample : VY0428SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 03:52:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	304169	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	466723	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	430101	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	228742	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	134757	47.964	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.920%			
35) Dibromofluoromethane	7.634	113	154321	50.049	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.100%			
50) Toluene-d8	10.109	98	584198	50.256	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.520%			
62) 4-Bromofluorobenzene	12.408	95	190988	48.805	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	50071	19.319	ug/l	99
3) Chloromethane	2.068	50	75523	20.464	ug/l	99
4) Vinyl Chloride	2.202	62	89253	19.681	ug/l	99
5) Bromomethane	2.592	94	78860	20.184	ug/l	98
6) Chloroethane	2.733	64	59730	19.339	ug/l	100
7) Trichlorofluoromethane	3.056	101	116596	19.497	ug/l	99
8) Diethyl Ether	3.458	74	29171	18.741	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	64955	20.023	ug/l	99
10) Methyl Iodide	4.007	142	75267	20.039	ug/l	99
11) Tert butyl alcohol	4.891	59	14577	94.507	ug/l	97
12) 1,1-Dichloroethene	3.787	96	59292	19.609	ug/l	97
13) Acrolein	3.653	56	22266	80.430	ug/l	98
14) Allyl chloride	4.385	41	67052	19.044	ug/l	99
15) Acrylonitrile	5.062	53	53919	94.624	ug/l	99
16) Acetone	3.879	43	38691	91.684	ug/l	93
17) Carbon Disulfide	4.104	76	188646	19.567	ug/l	100
18) Methyl Acetate	4.385	43	26710	20.352	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	128448	18.979	ug/l	96
20) Methylene Chloride	4.616	84	69565	19.581	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	67846	20.035	ug/l	98
22) Diisopropyl ether	6.019	45	155156	19.802	ug/l	95
23) Vinyl Acetate	5.958	43	405051	95.923	ug/l	99
24) 1,1-Dichloroethane	5.909	63	107232	19.744	ug/l	97
25) 2-Butanone	6.897	43	58420	91.221	ug/l	97
26) 2,2-Dichloropropane	6.884	77	95545	20.072	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	74270	19.614	ug/l	99
28) Bromochloromethane	7.244	49	40803	19.342	ug/l	97
29) Tetrahydrofuran	7.268	42	39499	94.962	ug/l	99
30) Chloroform	7.421	83	123555	20.510	ug/l	99
31) Cyclohexane	7.701	56	87525	18.845	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	109955	20.174	ug/l	99
36) 1,1-Dichloropropene	7.835	75	84266	20.345	ug/l	99
37) Ethyl Acetate	6.988	43	30066	20.212	ug/l	97
38) Carbon Tetrachloride	7.817	117	98021	19.805	ug/l	96
39) Methylcyclohexane	9.110	83	96942	18.599	ug/l	94
40) Benzene	8.079	78	264687	20.443	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022024.D
Acq On : 28 Apr 2025 12:02
Operator : SY/MD
Sample : VY0428SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 03:52:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	14950	18.385	ug/l	#	94
42) 1,2-Dichloroethane	8.159	62	65978	20.582	ug/l		100
43) Isopropyl Acetate	8.201	43	55391	19.390	ug/l	#	85
44) Trichloroethene	8.866	130	73456	20.483	ug/l		96
45) 1,2-Dichloropropane	9.140	63	57855	20.206	ug/l		99
46) Dibromomethane	9.232	93	36507	20.368	ug/l		99
47) Bromodichloromethane	9.427	83	91869	20.518	ug/l		98
48) Methyl methacrylate	9.219	41	24736	18.731	ug/l		96
49) 1,4-Dioxane	9.244	88	7623	399.035	ug/l		97
51) 4-Methyl-2-Pentanone	10.000	43	144427	96.444	ug/l		100
52) Toluene	10.170	92	173484	20.700	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	76364	19.883	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	91935	20.137	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	50233	20.981	ug/l		98
56) Ethyl methacrylate	10.439	69	50325	18.381	ug/l		97
57) 1,3-Dichloropropane	10.719	76	77135	20.097	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	127764	95.443	ug/l		98
59) 2-Hexanone	10.762	43	94218	95.387	ug/l		97
60) Dibromochloromethane	10.908	129	67301	20.304	ug/l		100
61) 1,2-Dibromoethane	11.012	107	46692	20.658	ug/l		97
64) Tetrachloroethene	10.646	164	83023	20.462	ug/l		98
65) Chlorobenzene	11.445	112	191323	19.892	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	69613	20.558	ug/l		99
67) Ethyl Benzene	11.518	91	310207	19.716	ug/l		99
68) m/p-Xylenes	11.627	106	253033	40.415	ug/l		99
69) o-Xylene	11.957	106	114827	19.899	ug/l		100
70) Styrene	11.969	104	195808	20.210	ug/l		100
71) Bromoform	12.133	173	40476	20.560	ug/l	#	100
73) Isopropylbenzene	12.255	105	298757	19.549	ug/l		99
74) N-amyl acetate	12.072	43	47258	17.999	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	50760	19.701	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	36880m	18.823	ug/l		
77) Bromobenzene	12.530	156	78665	20.371	ug/l		97
78) n-propylbenzene	12.597	91	361182	19.846	ug/l		100
79) 2-Chlorotoluene	12.682	91	209164	19.762	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	249733	19.833	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	15459	19.001	ug/l		99
82) 4-Chlorotoluene	12.780	91	223135	20.280	ug/l		100
83) tert-Butylbenzene	12.999	119	219359	19.424	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	251831	19.995	ug/l		100
85) sec-Butylbenzene	13.176	105	324017	19.608	ug/l		99
86) p-Isopropyltoluene	13.292	119	277280	19.760	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	157100	20.030	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	158444	20.398	ug/l		99
89) n-Butylbenzene	13.615	91	237857	18.964	ug/l		99
90) Hexachloroethane	13.877	117	60454	19.609	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	137294	20.070	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7886	19.238	ug/l		93
93) 1,2,4-Trichlorobenzene	14.919	180	74907	19.324	ug/l		99
94) Hexachlorobutadiene	15.023	225	48192	20.206	ug/l		96
95) Naphthalene	15.145	128	113791	17.671	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	65284	19.510	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022024.D
Acq On : 28 Apr 2025 12:02
Operator : SY/MD
Sample : VY0428SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 03:52:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

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

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

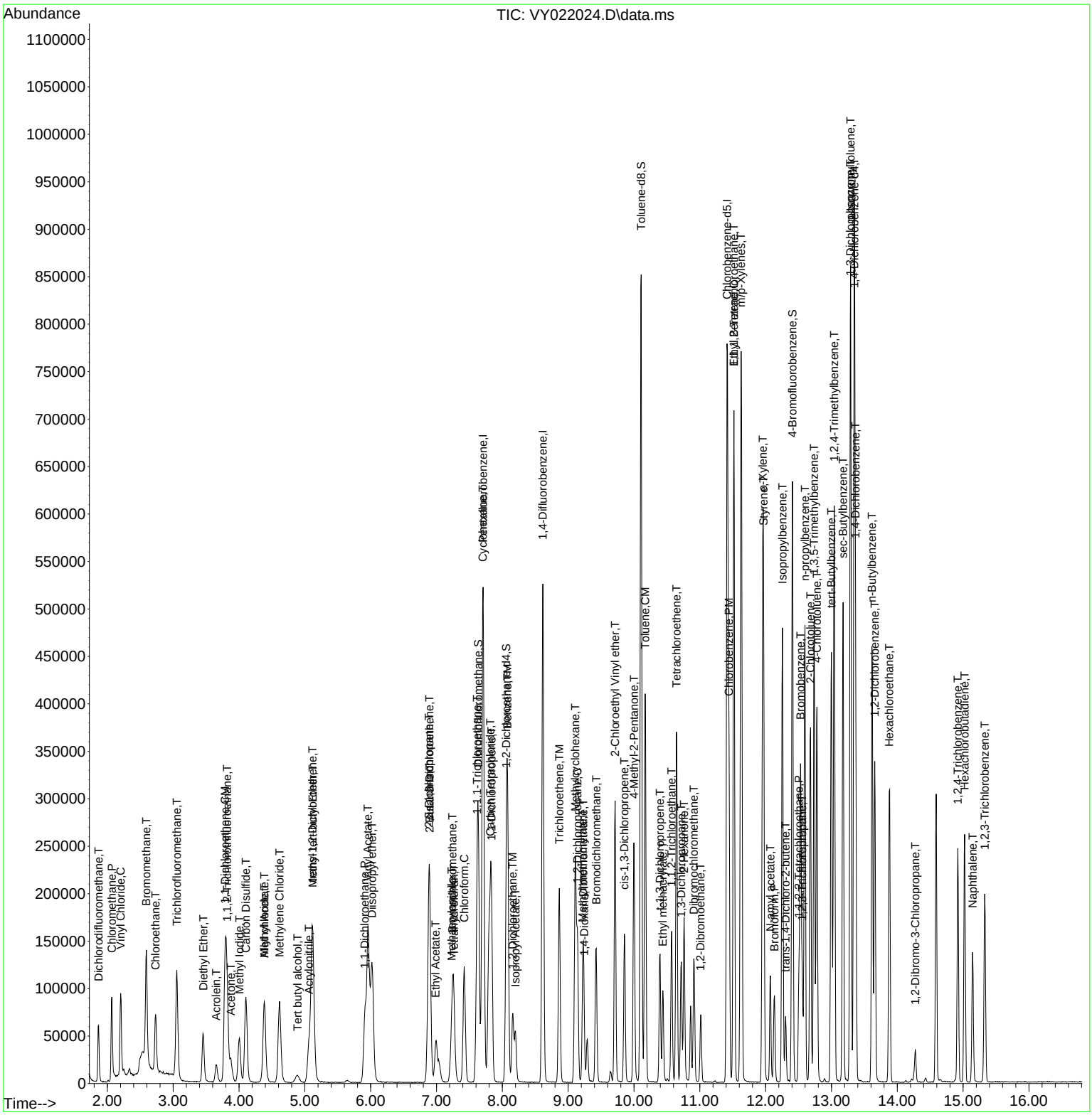
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042825\
Data File : VY022024.D
Acq On : 28 Apr 2025 12:02
Operator : SY/MD
Sample : VY0428SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

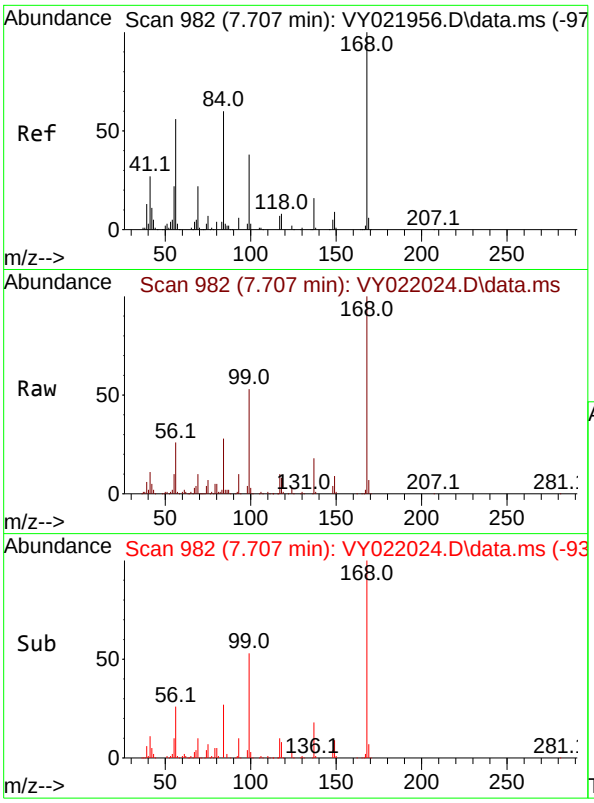
Quant Time: Apr 29 03:52:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

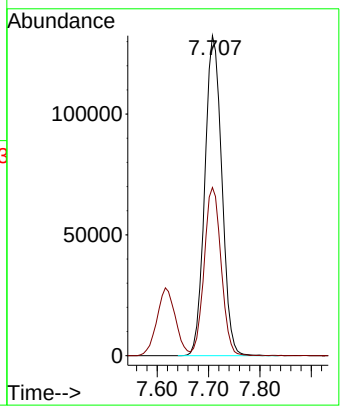




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:168 Resp: 30416

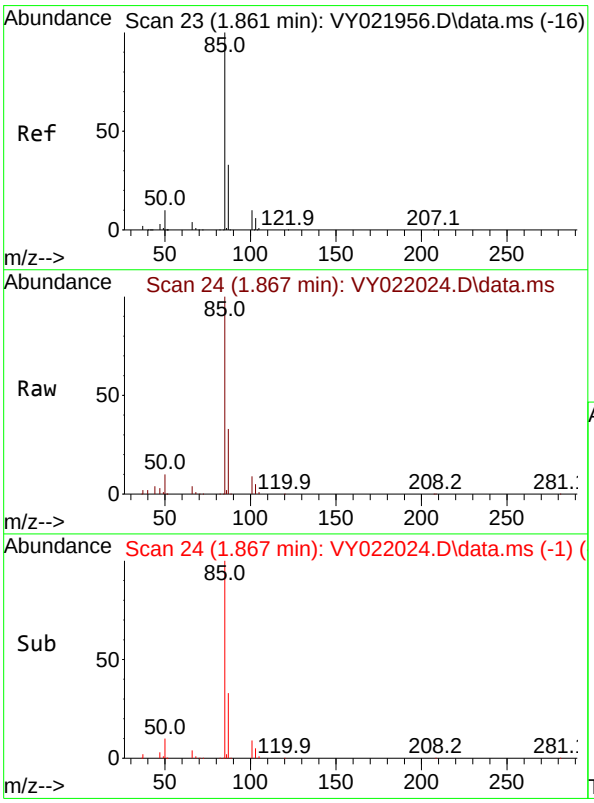
Ion	Ratio	Lower	Upper
168	100		
99	52.5	43.1	64.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

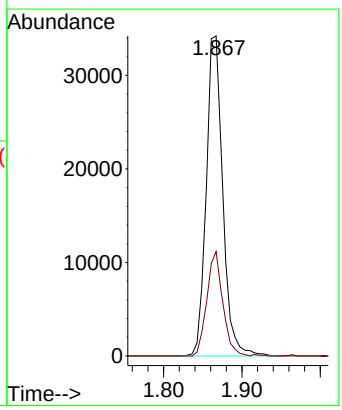
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

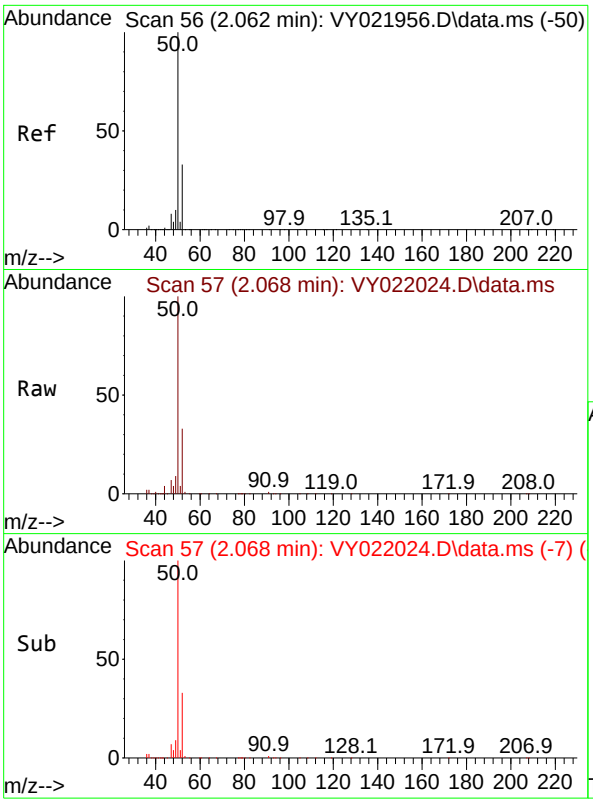


#2
Dichlorodifluoromethane
Concen: 19.319 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 85 Resp: 50071

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.6	49.7

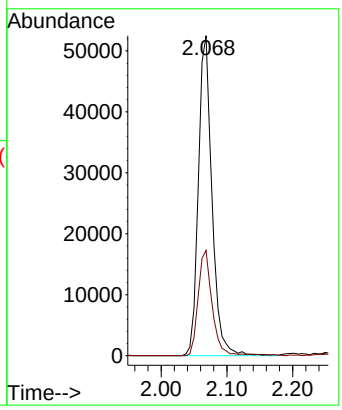




#3
Chloromethane
Concen: 20.464 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 50 Resp: 7552

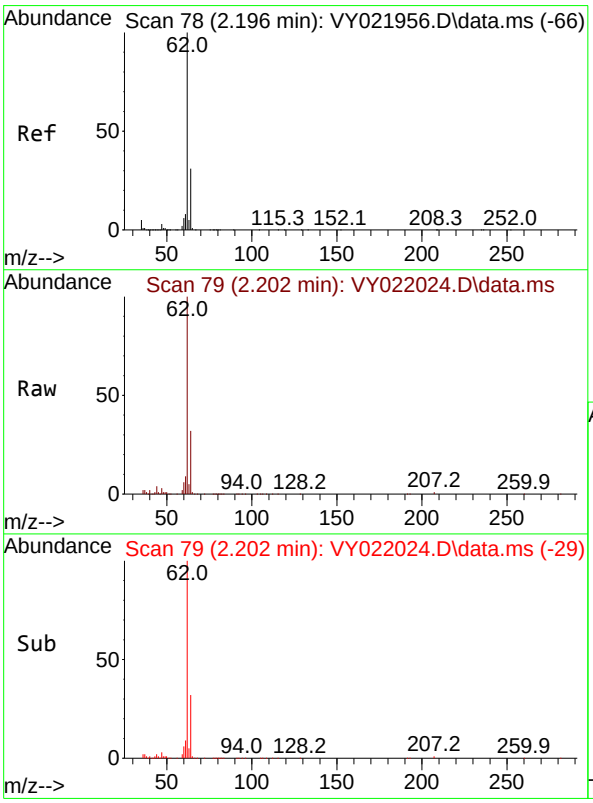
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.1	39.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

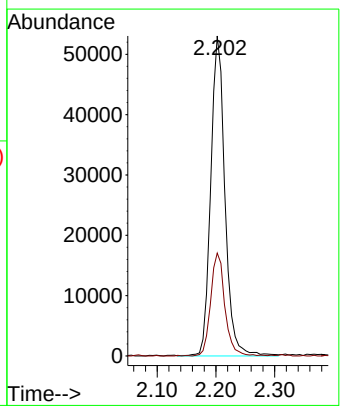
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

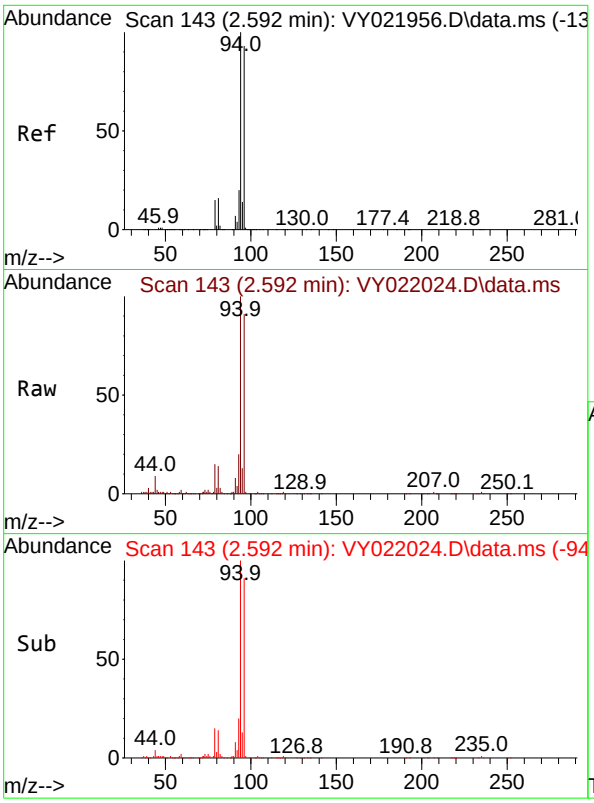


#4
Vinyl Chloride
Concen: 19.681 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 62 Resp: 89253

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.1	37.7

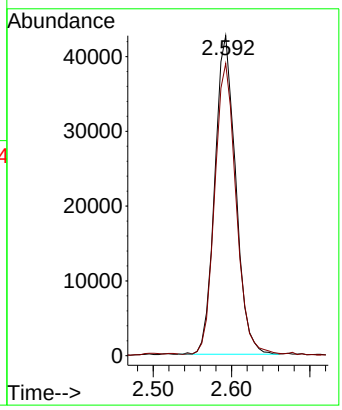




#5
Bromomethane
Concen: 20.184 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 94 Resp: 7886

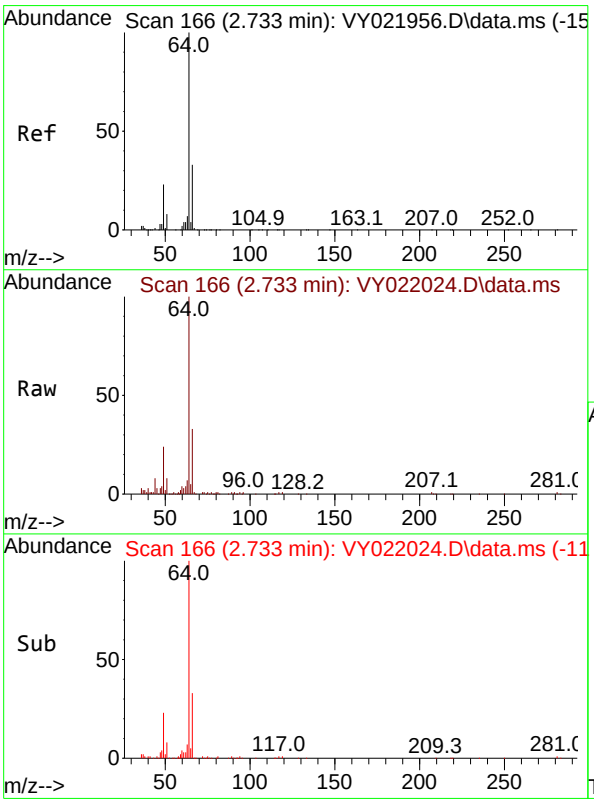
Ion	Ratio	Lower	Upper
94	100		
96	91.1	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

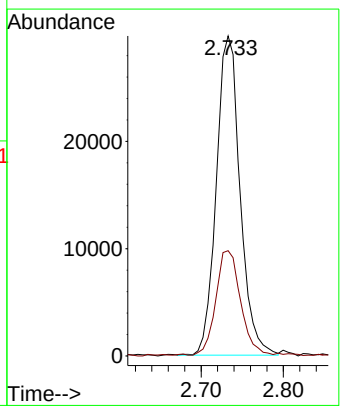
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

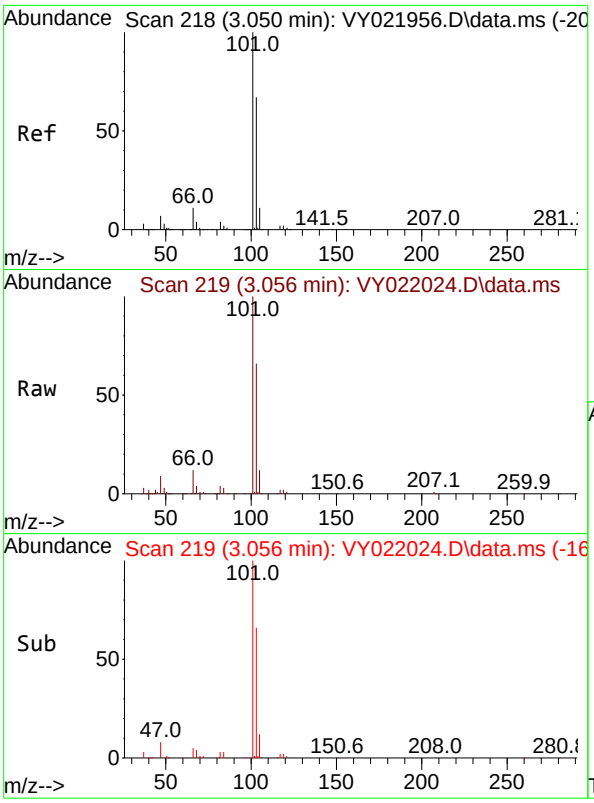


#6
Chloroethane
Concen: 19.339 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 64 Resp: 59730

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.2	39.4

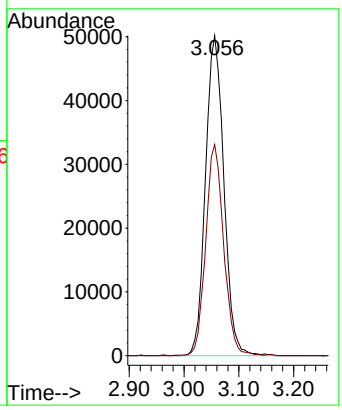




#7
Trichlorofluoromethane
Concen: 19.497 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:101 Resp: 11659

Ion	Ratio	Lower	Upper
101	100		
103	66.0	53.6	80.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

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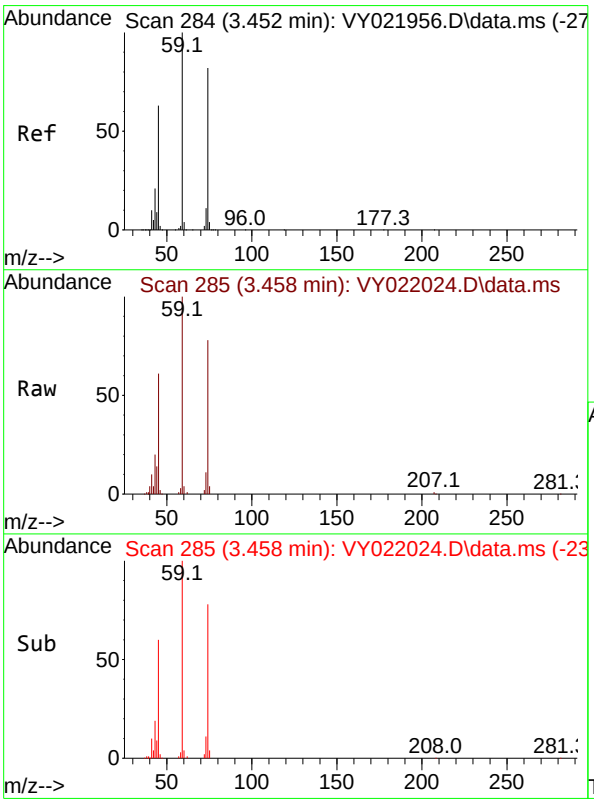
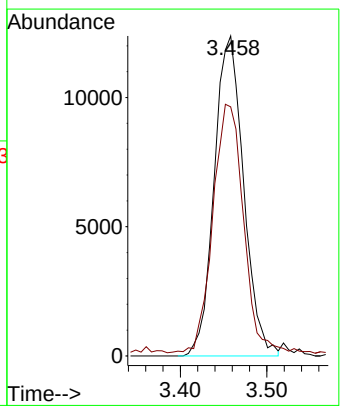
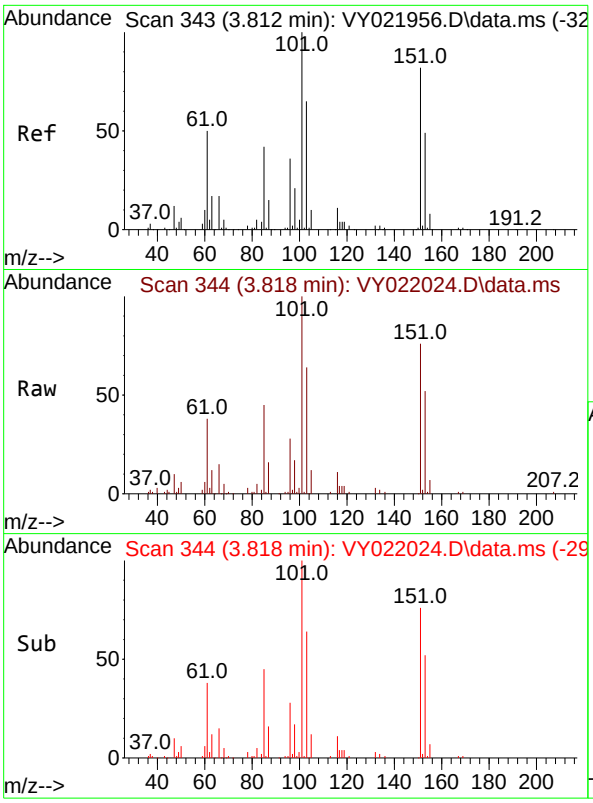


#8
Diethyl Ether
Concen: 18.741 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 74 Resp: 29171

Ion	Ratio	Lower	Upper
74	100		
45	81.4	39.1	117.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.023 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

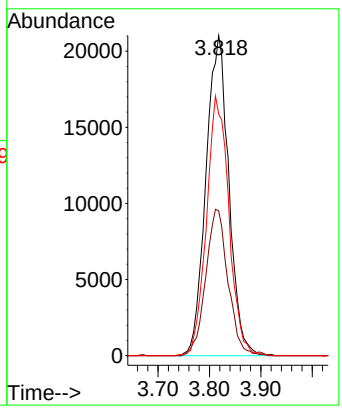
Tgt Ion:101 Resp: 6495

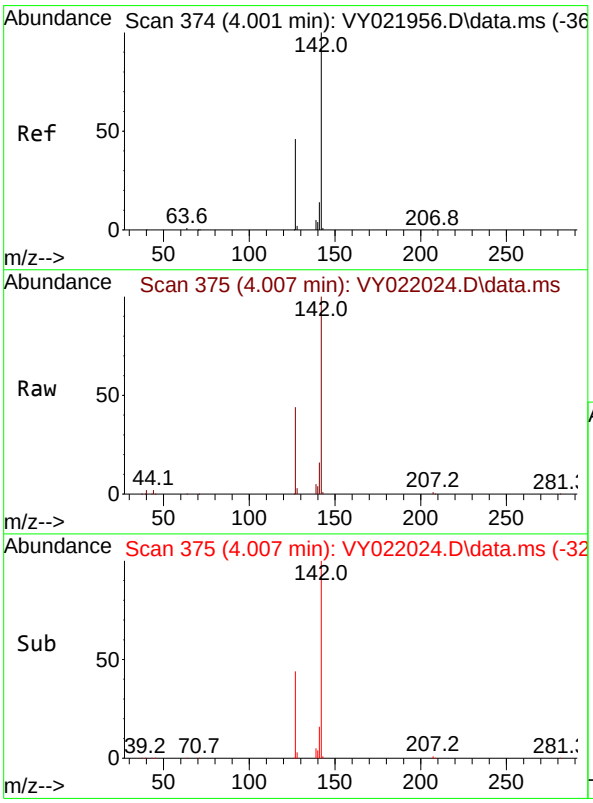
Ion	Ratio	Lower	Upper
101	100		
85	44.5	34.6	51.8
151	79.7	63.7	95.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

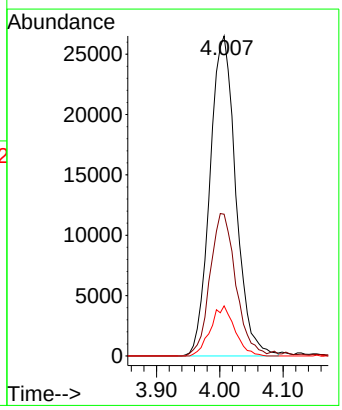


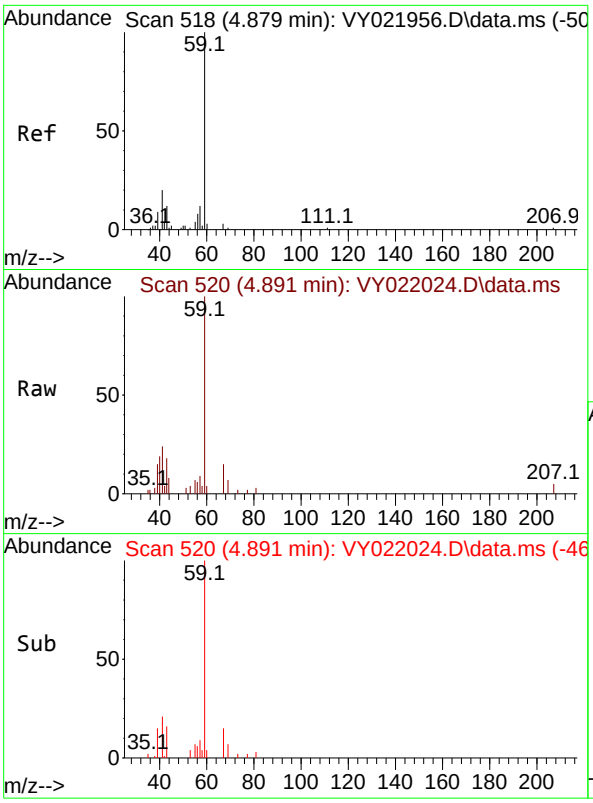


#10
Methyl Iodide
Concen: 20.039 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:142 Resp: 75267

Ion	Ratio	Lower	Upper
142	100		
127	44.5	36.2	54.2
141	14.7	11.7	17.5

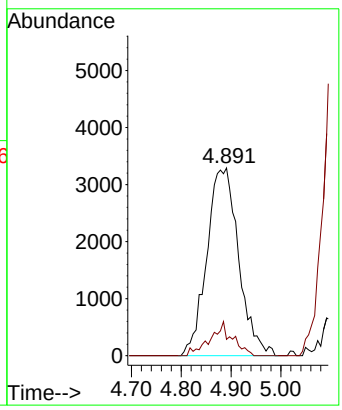




#11
Tert butyl alcohol
Concen: 94.507 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 59 Resp: 1457

Ion	Ratio	Lower	Upper
59	100		
57	12.6	9.3	13.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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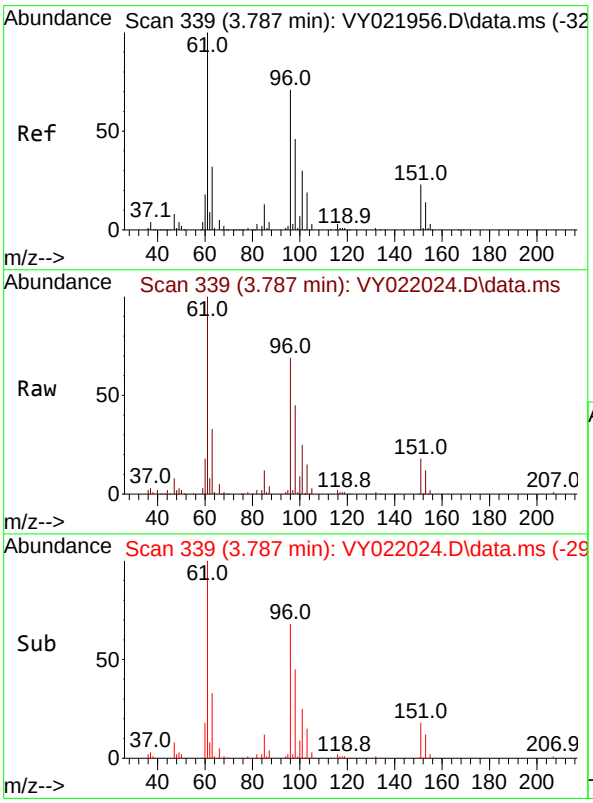
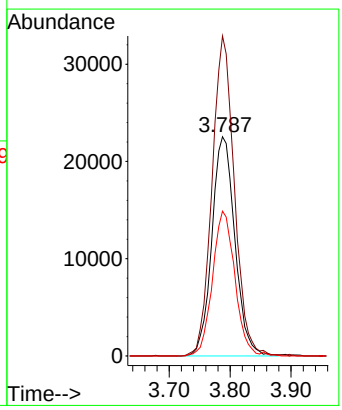
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

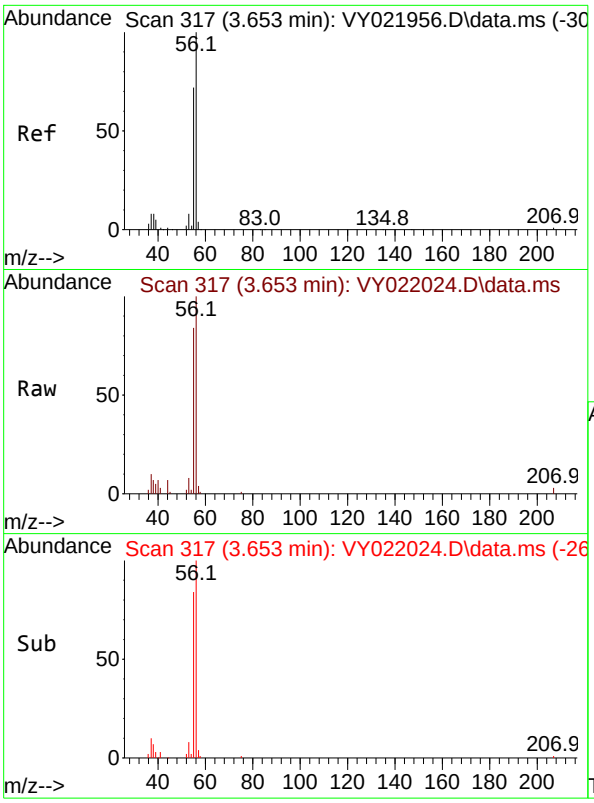


#12
1,1-Dichloroethene
Concen: 19.609 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 96 Resp: 59292

Ion	Ratio	Lower	Upper
96	100		
61	146.0	113.0	169.4
98	66.0	51.4	77.2

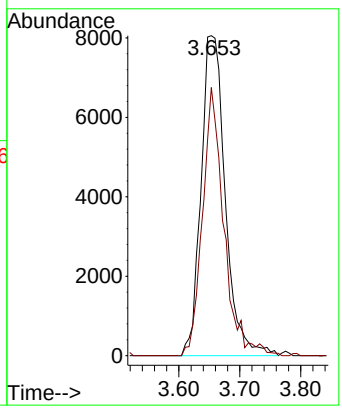




#13
Acrolein
Concen: 80.430 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 56 Resp: 2226

Ion	Ratio	Lower	Upper
56	100		
55	73.7	57.4	86.0



Instrument :
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ClientSampleId :
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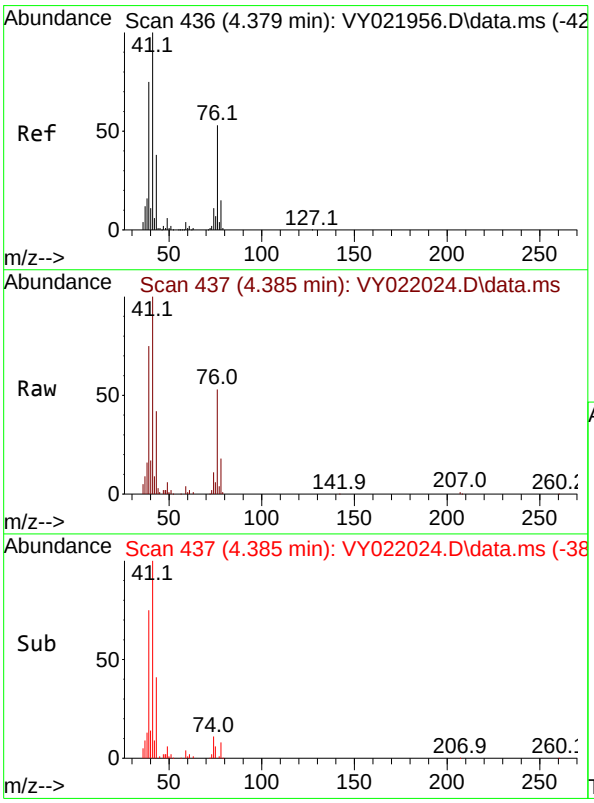
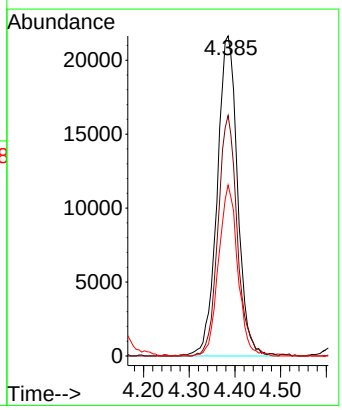
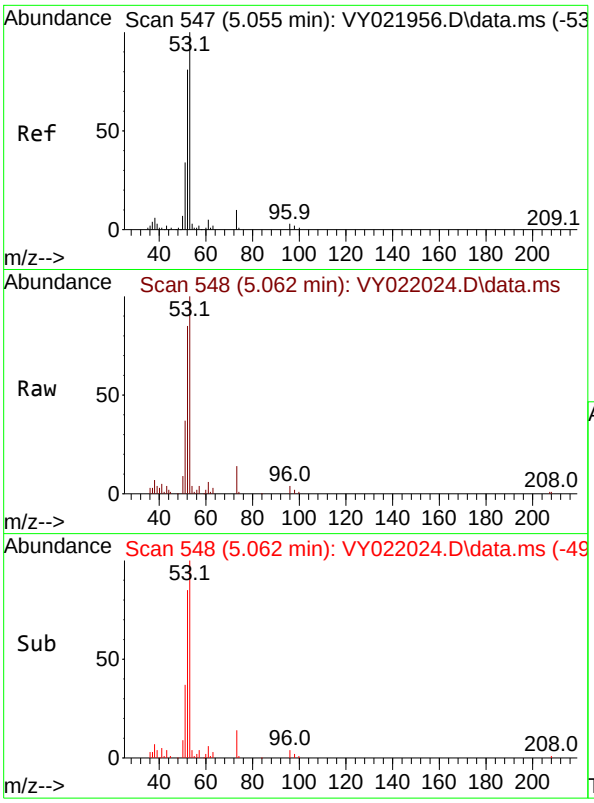


#14
Allyl chloride
Concen: 19.044 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 41 Resp: 67052

Ion	Ratio	Lower	Upper
41	100		
39	70.8	57.2	85.8
76	50.2	39.7	59.5

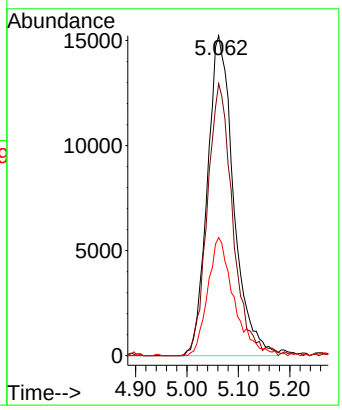




#15
Acrylonitrile
Concen: 94.624 ug/l
RT: 5.062 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 53 Resp: 53919

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.0	97.6
51	37.2	28.9	43.3



Instrument :
MSVOA_Y
ClientSampleId :
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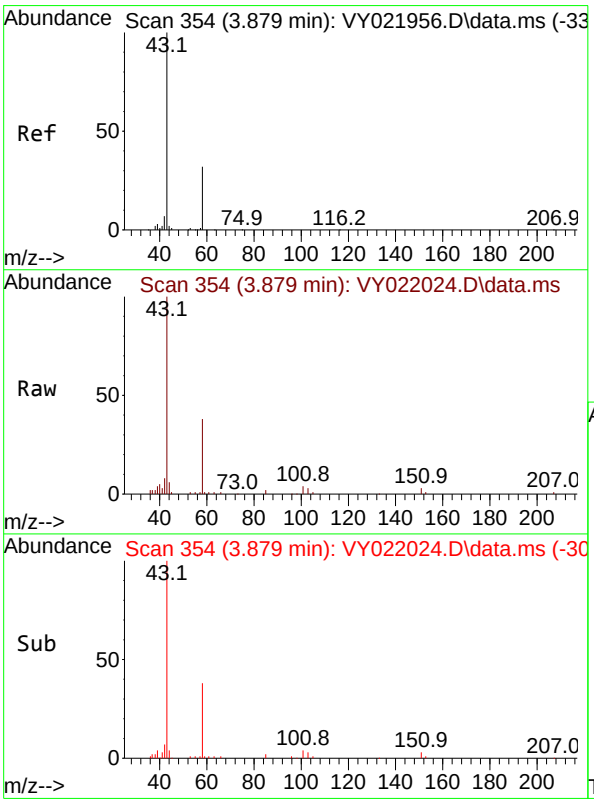
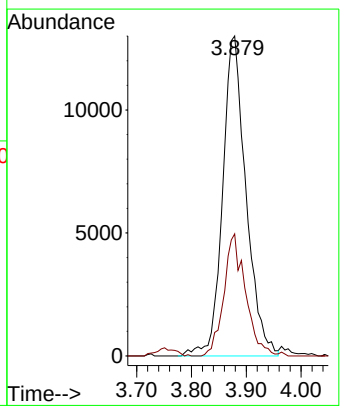
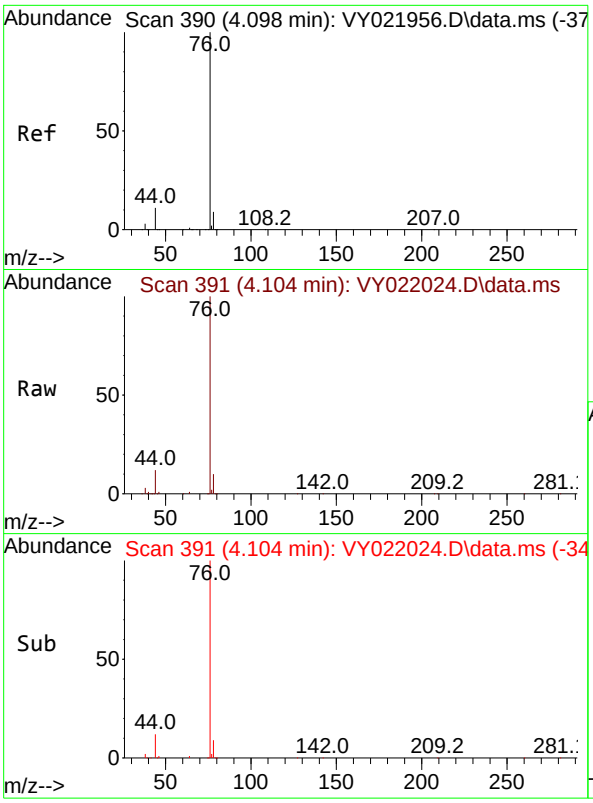


#16
Acetone
Concen: 91.684 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 38691

Ion	Ratio	Lower	Upper
43	100		
58	37.5	27.0	40.4

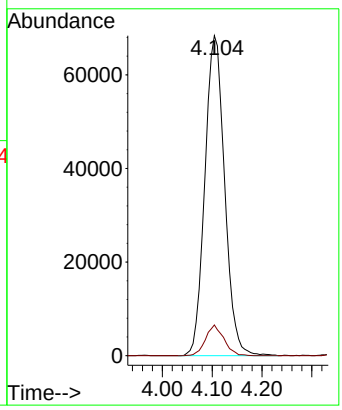




#17
Carbon Disulfide
Concen: 19.567 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 76 Resp: 18864

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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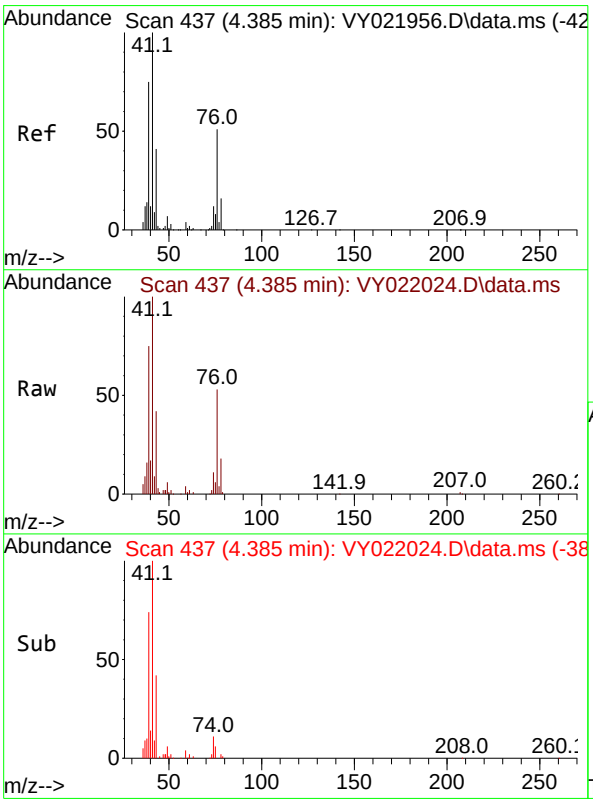
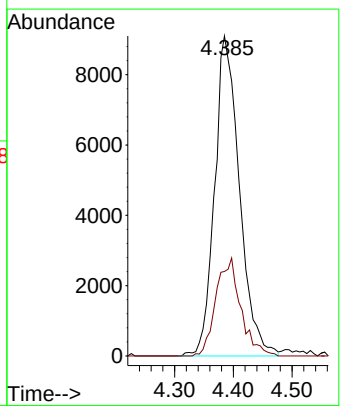
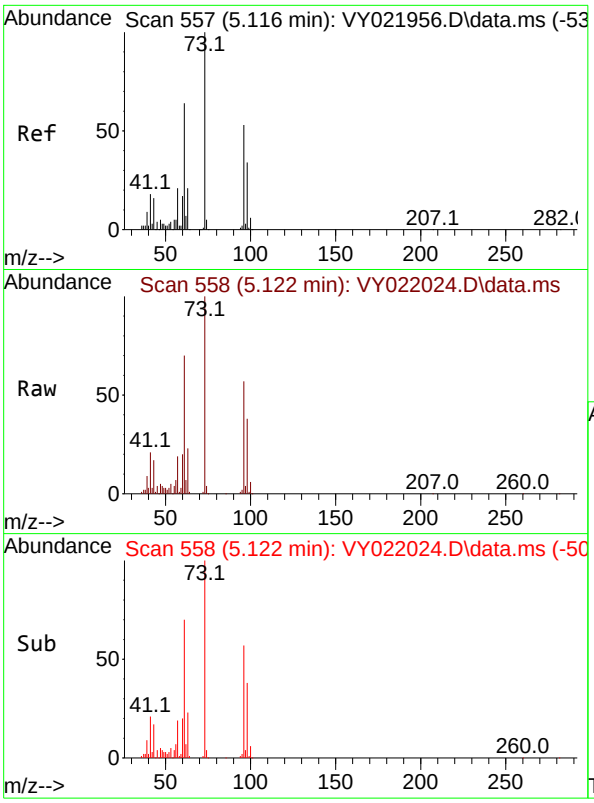


#18
Methyl Acetate
Concen: 20.352 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 26710

Ion	Ratio	Lower	Upper
43	100		
74	30.6	24.2	36.4

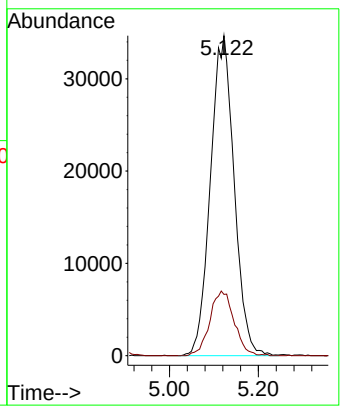




#19
Methyl tert-butyl Ether
Concen: 18.979 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 73 Resp: 12844

Ion	Ratio	Lower	Upper
73	100		
57	19.1	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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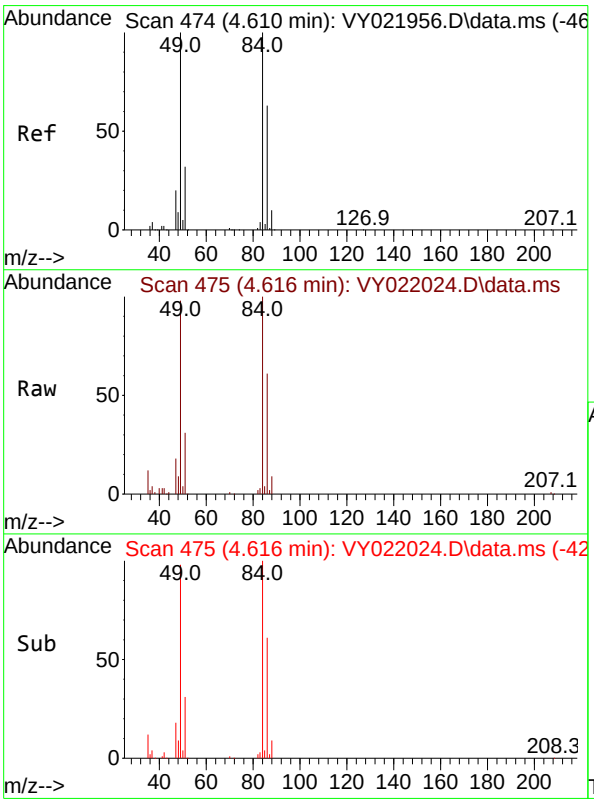
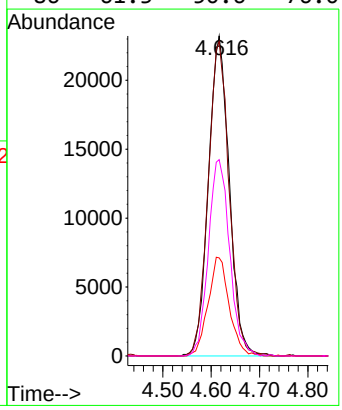
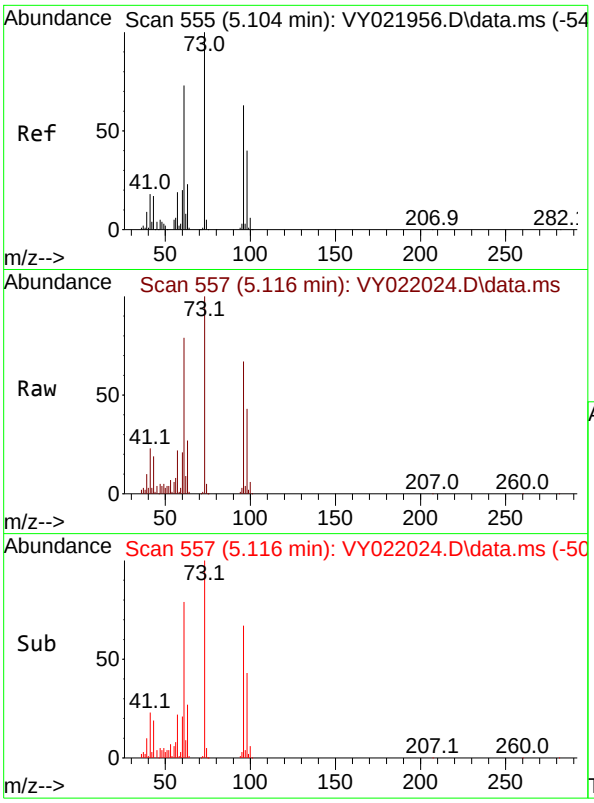


#20
Methylene Chloride
Concen: 19.581 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 84 Resp: 69565

Ion	Ratio	Lower	Upper
84	100		
49	98.2	79.9	119.9
51	30.7	25.4	38.0
86	61.3	50.6	76.0

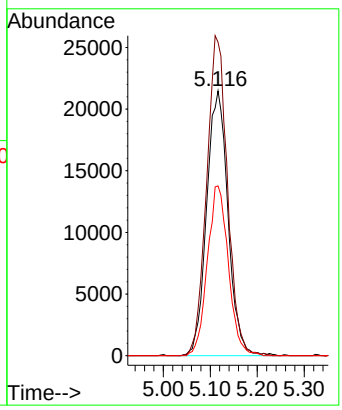




#21
trans-1,2-Dichloroethene
Concen: 20.035 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 96 Resp: 6784

Ion	Ratio	Lower	Upper
96	100		
61	118.3	92.6	138.8
98	64.1	50.2	75.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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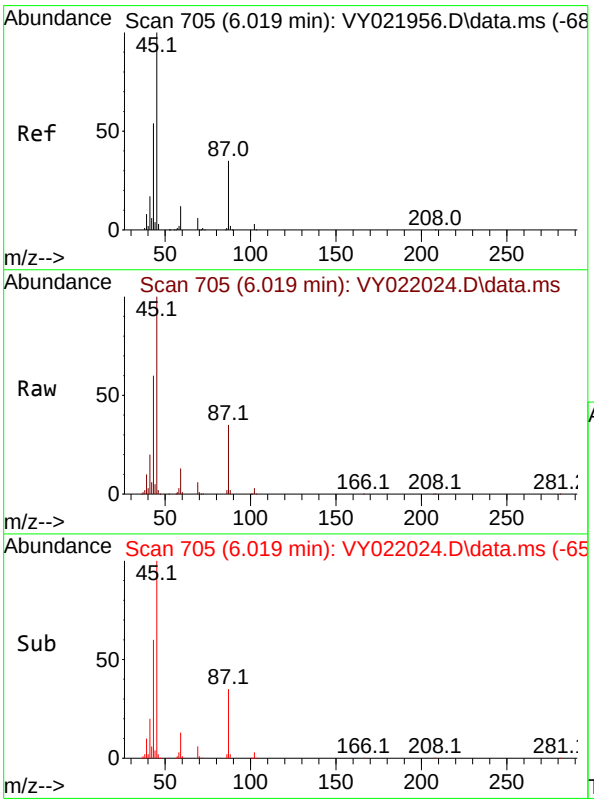
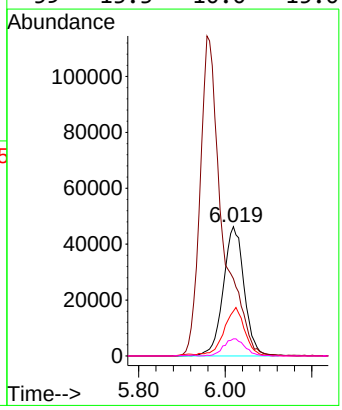
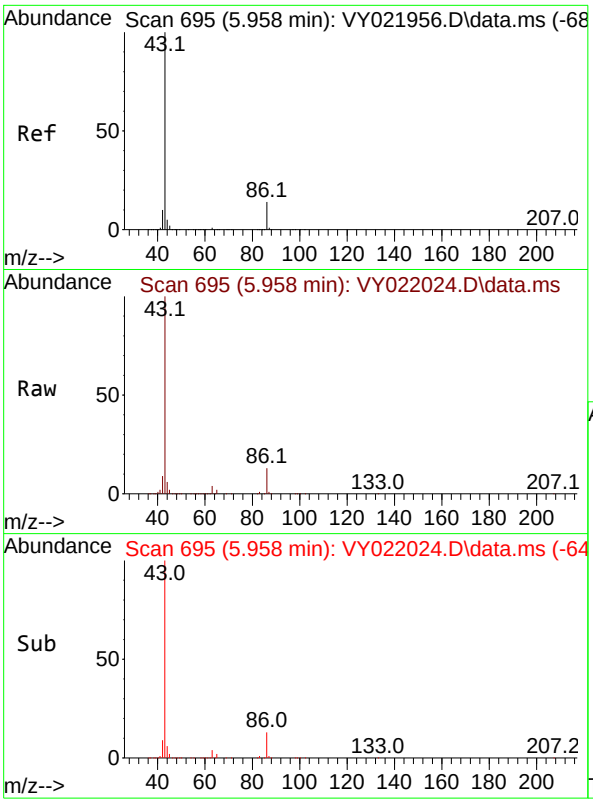


#22
Diisopropyl ether
Concen: 19.802 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 45 Resp: 155156

Ion	Ratio	Lower	Upper
45	100		
43	59.6	43.6	65.4
87	34.4	28.2	42.4
59	13.3	10.0	15.0





#23
Vinyl Acetate
Concen: 95.923 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 40505

Ion	Ratio	Lower	Upper
43	100		
86	13.5	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
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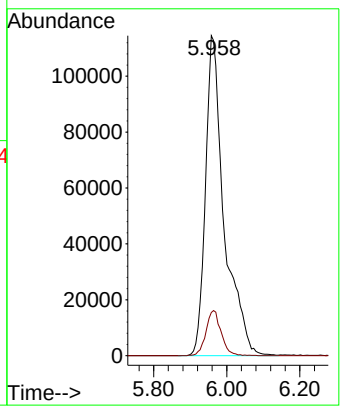
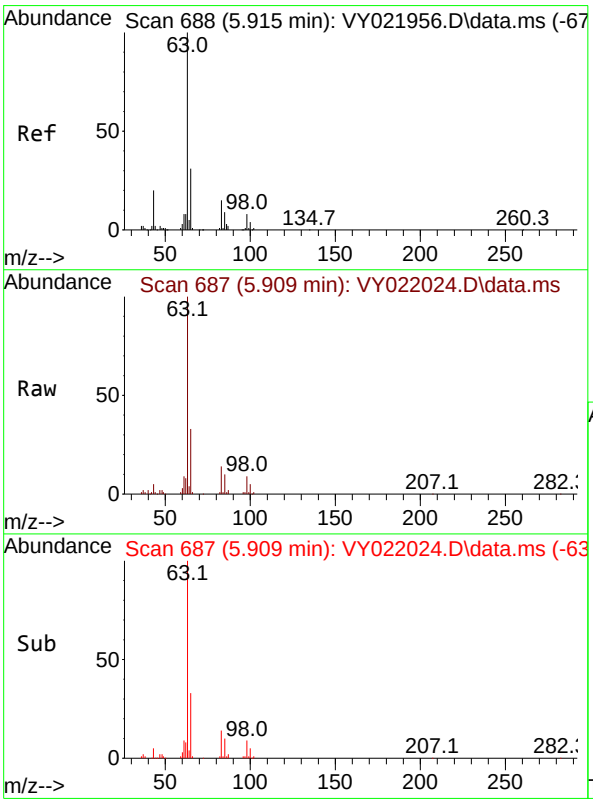
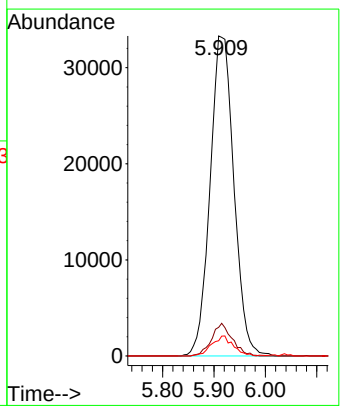


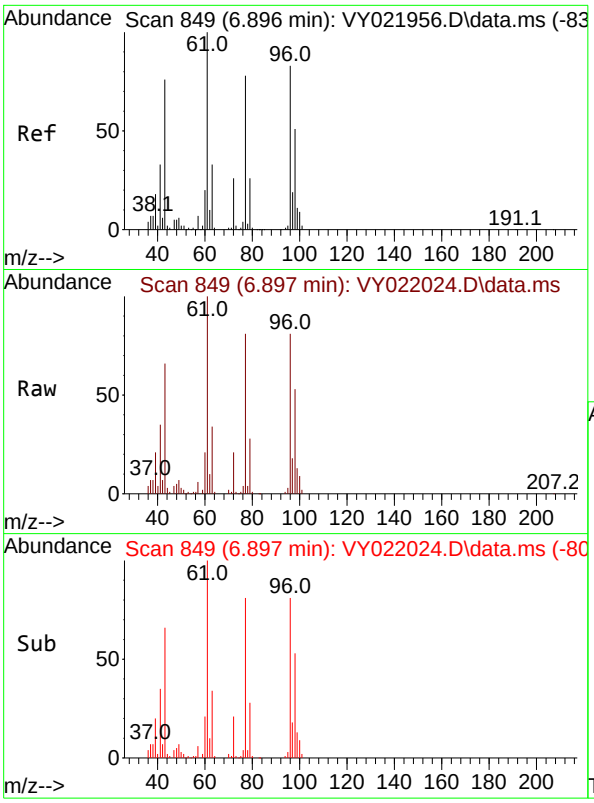


#24
1,1-Dichloroethane
Concen: 19.744 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 63 Resp: 107232

Ion	Ratio	Lower	Upper
63	100		
98	8.9	4.0	11.9
100	4.7	2.0	6.0

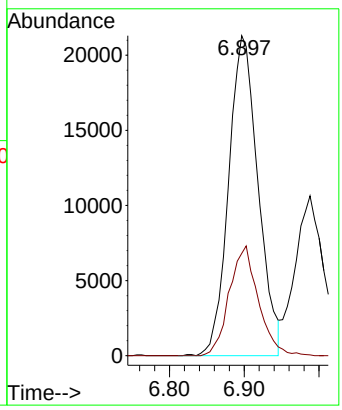




#25
2-Butanone
Concen: 91.221 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 5842

Ion	Ratio	Lower	Upper
43	100		
72	31.9	27.0	40.4



Instrument :
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ClientSampleId :
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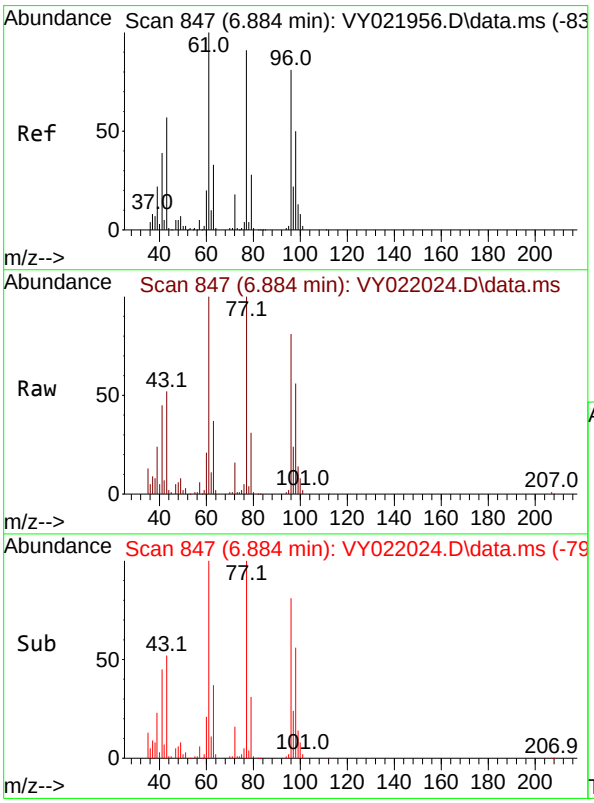
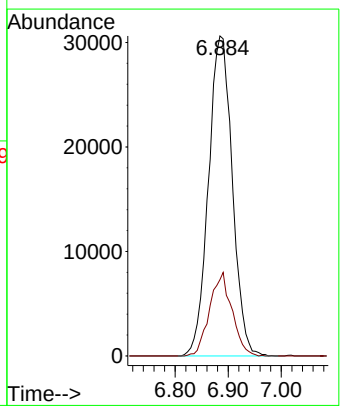
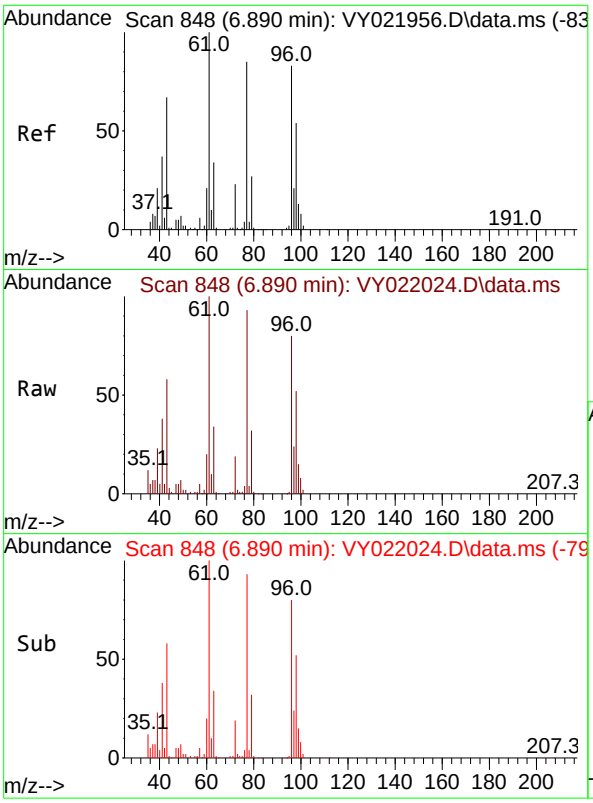


#26
2,2-Dichloropropane
Concen: 20.072 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 77 Resp: 95545

Ion	Ratio	Lower	Upper
77	100		
97	24.4	12.4	37.4





#27
cis-1,2-Dichloroethene
Concen: 19.614 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 96 Resp: 7427

Ion	Ratio	Lower	Upper
96	100		
61	125.3	0.0	251.4
98	64.9	0.0	128.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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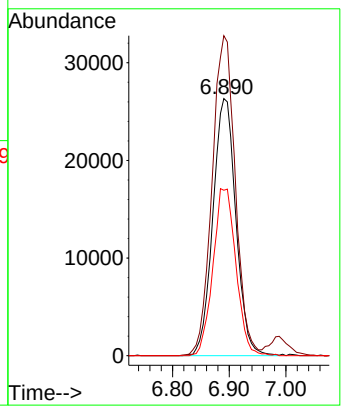
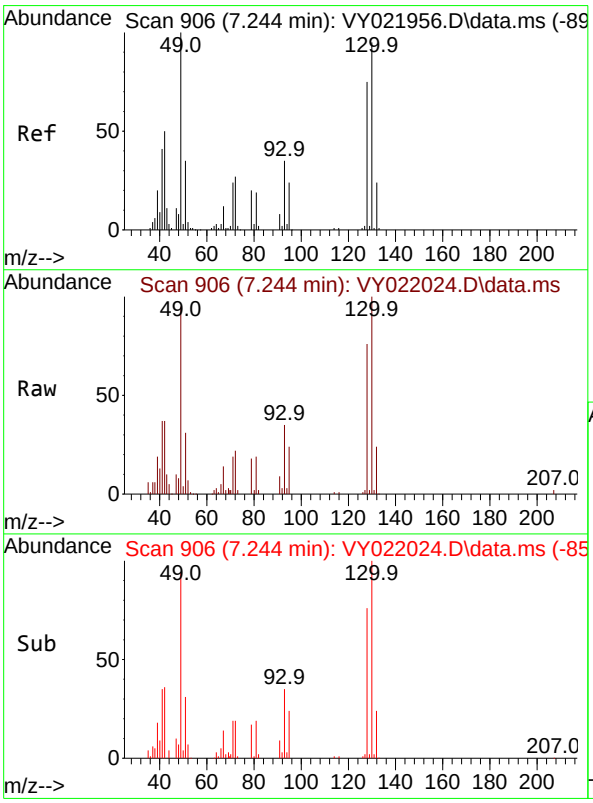
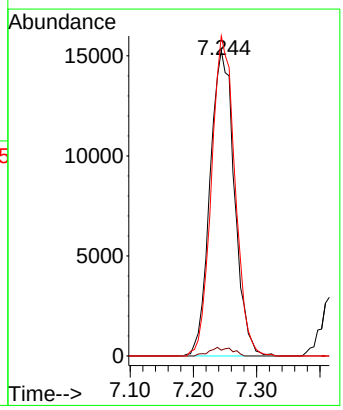


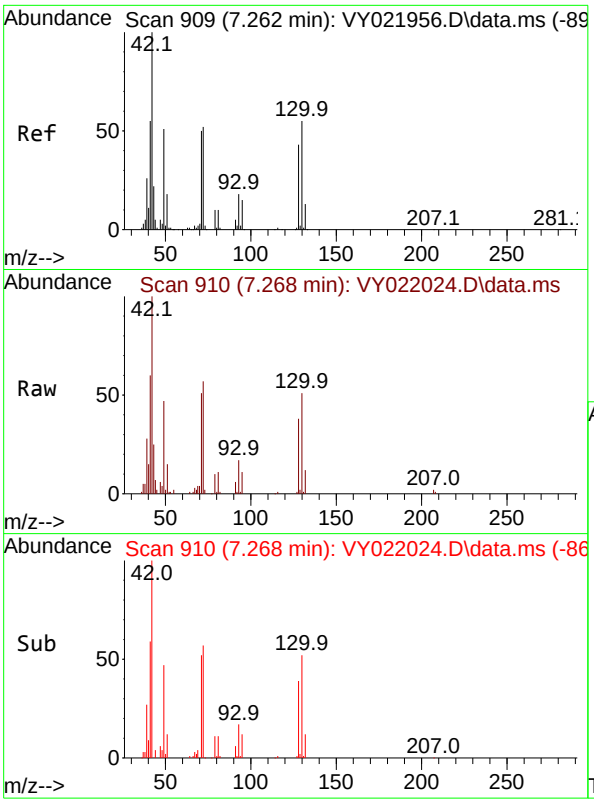


#28
Bromochloromethane
Concen: 19.342 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 49 Resp: 40803

Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	5.0
130	101.0	78.2	117.4

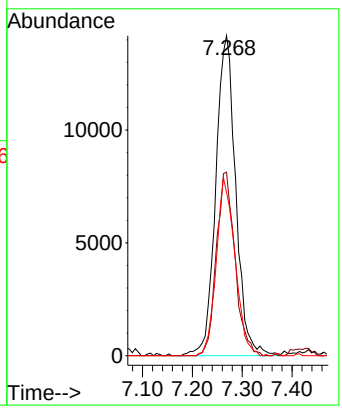




#29
Tetrahydrofuran
Concen: 94.962 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 42 Resp: 3949

Ion	Ratio	Lower	Upper
42	100		
72	53.4	42.6	63.8
71	52.0	40.6	61.0



Instrument :
MSVOA_Y
ClientSampleId :
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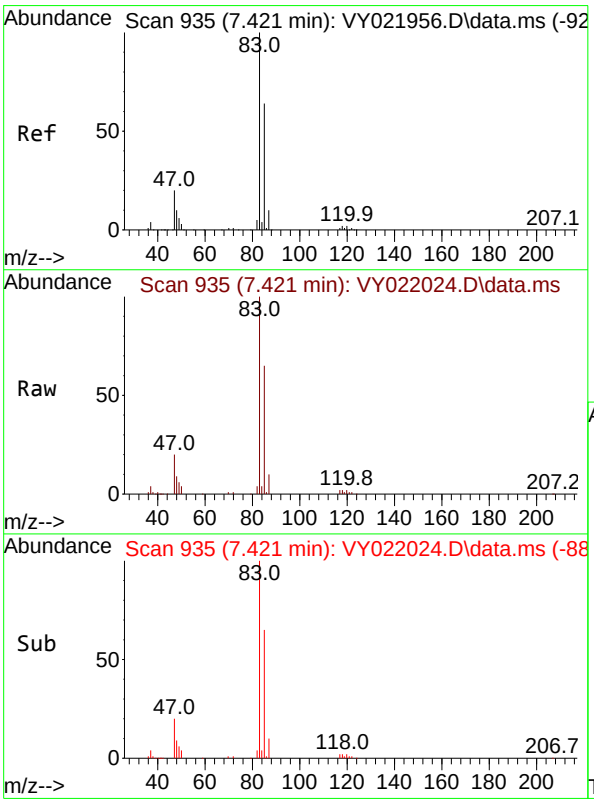
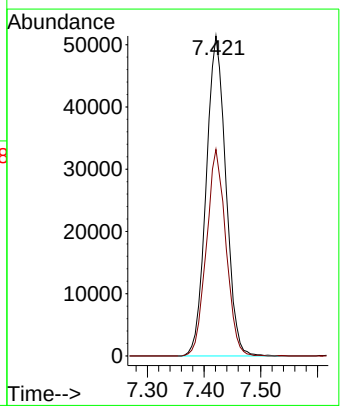
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

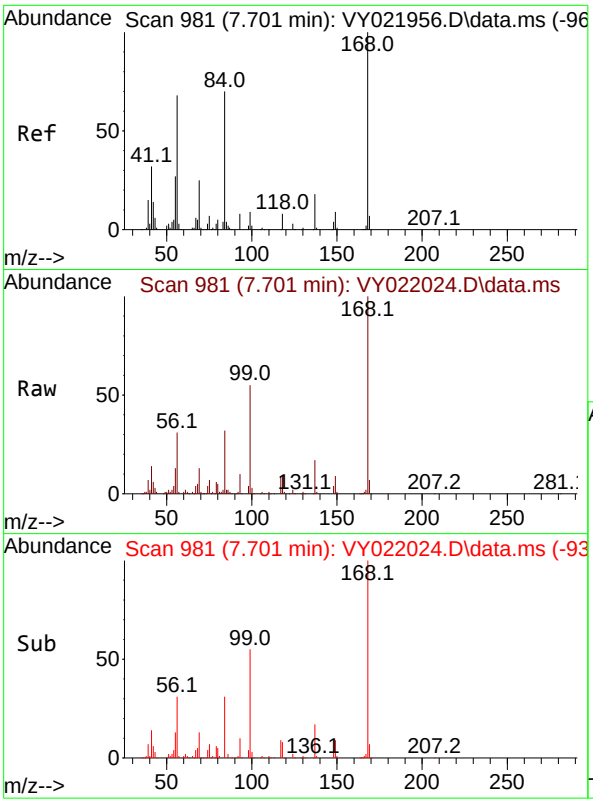


#30
Chloroform
Concen: 20.510 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 83 Resp: 123555

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.3	76.9





#31
Cyclohexane
Concen: 18.845 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 56 Resp: 8752

Ion	Ratio	Lower	Upper
56	100		
69	41.0	29.4	44.2
84	101.7	82.2	123.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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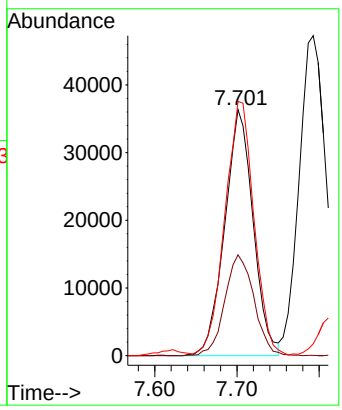
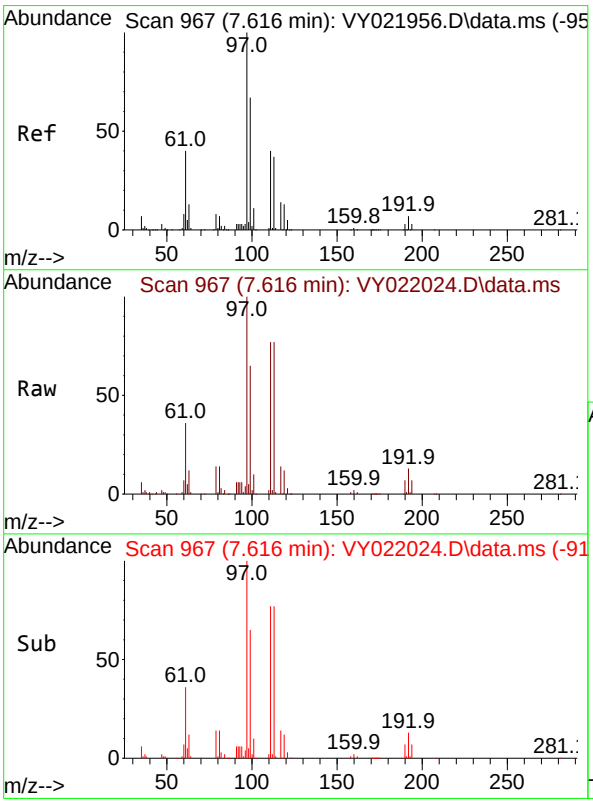
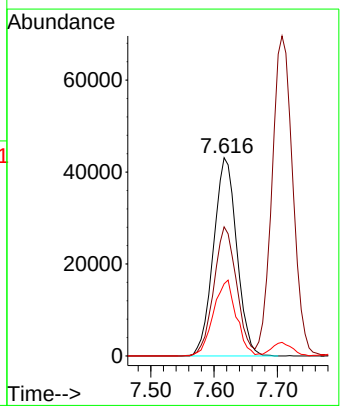


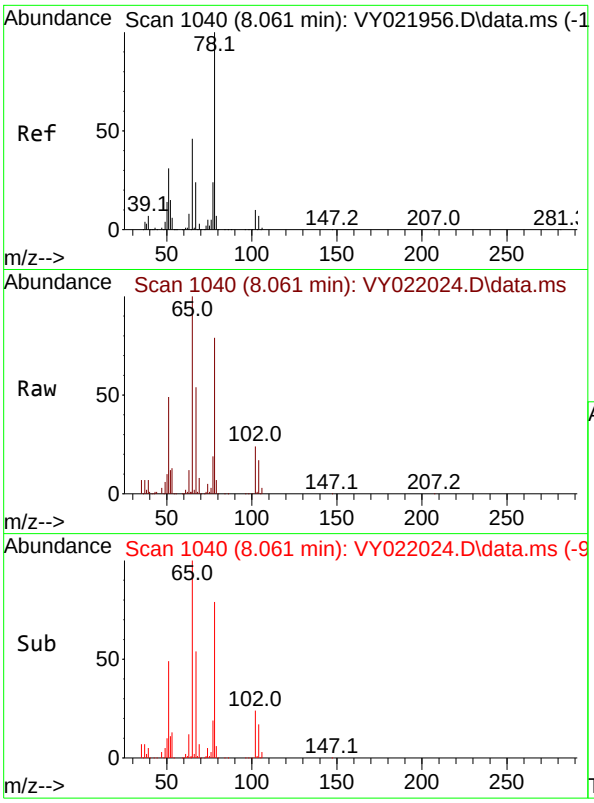


#32
1,1,1-Trichloroethane
Concen: 20.174 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 97 Resp: 109955

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.2
61	37.9	31.4	47.2

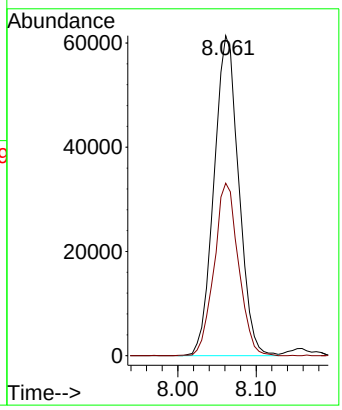




#33
1,2-Dichloroethane-d4
Concen: 47.964 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 65 Resp: 13475

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
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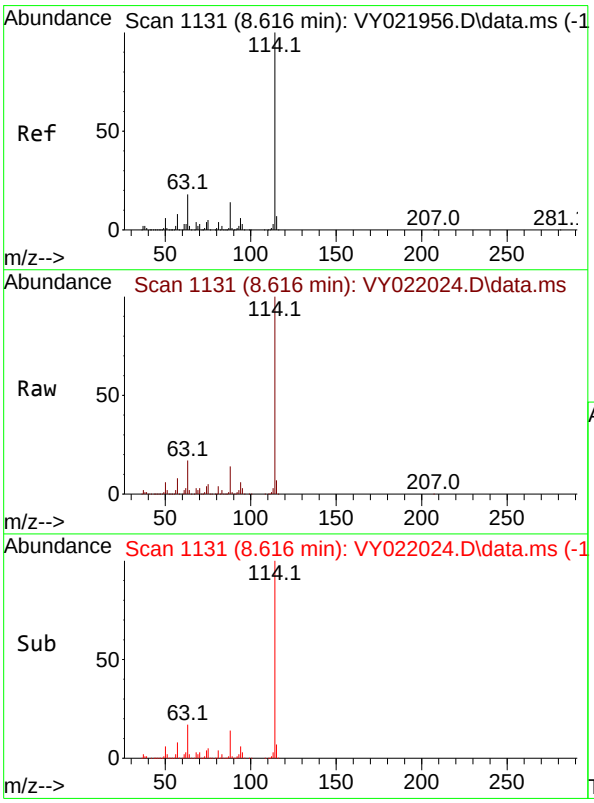
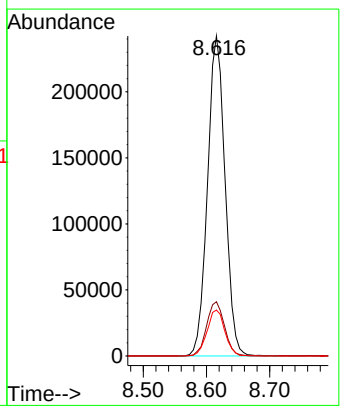
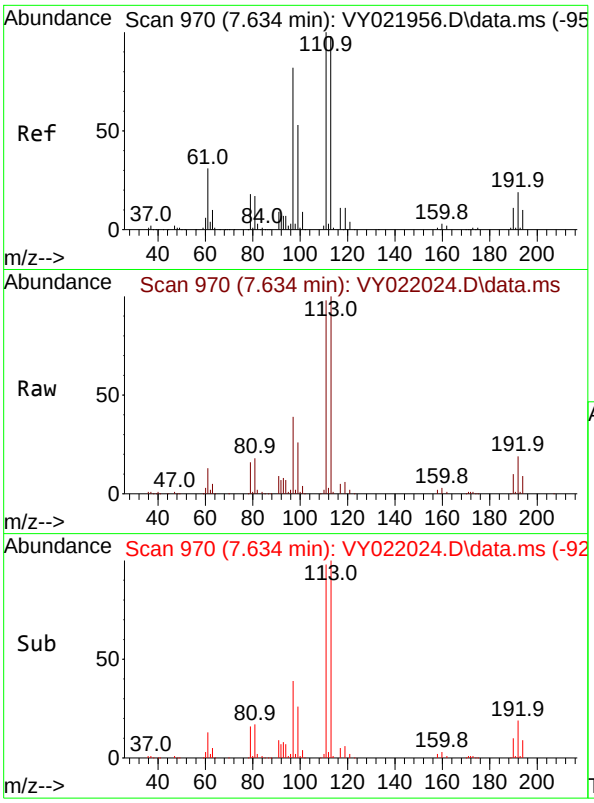


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:114 Resp: 466723

Ion	Ratio	Lower	Upper
114	100		
63	17.0	0.0	35.4
88	14.4	0.0	28.2

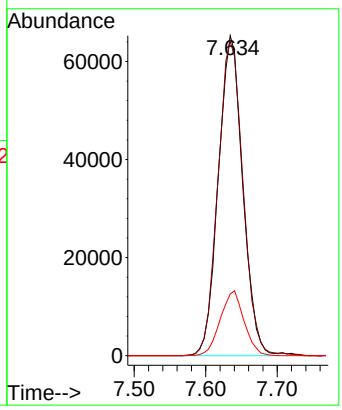




#35
Dibromofluoromethane
Concen: 50.049 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:113 Resp: 15432

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.8
192	19.8	15.6	23.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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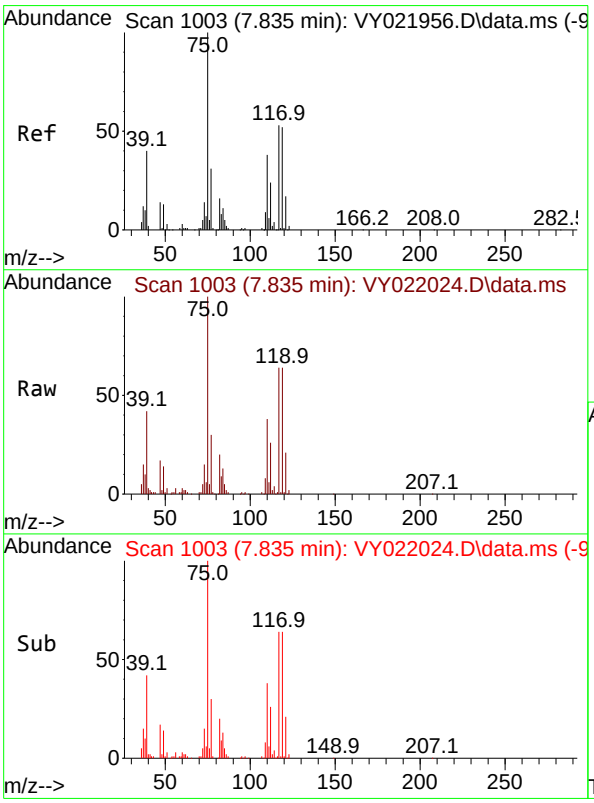
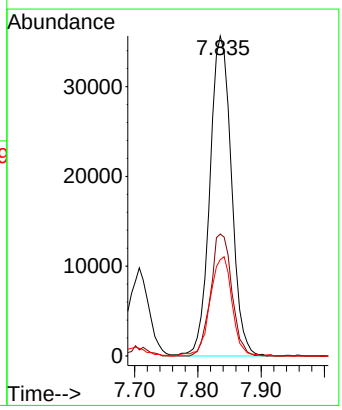
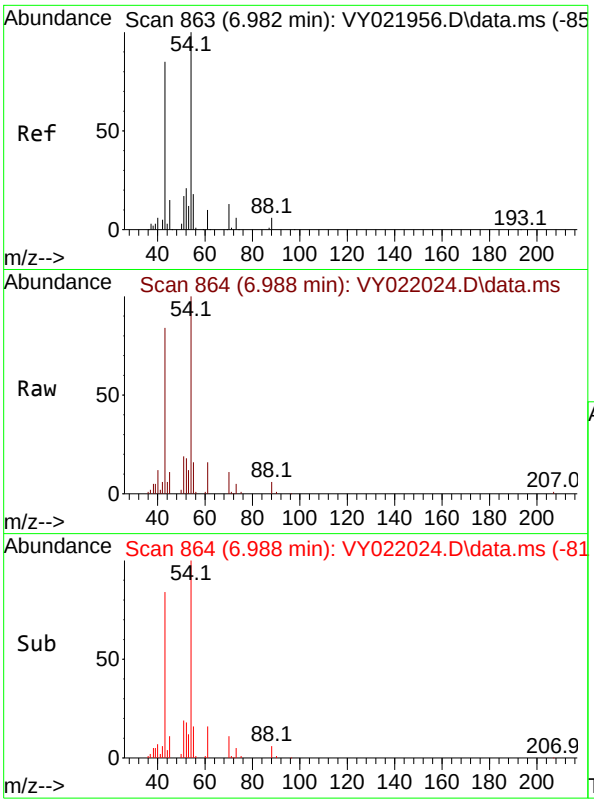


#36
1,1-Dichloropropene
Concen: 20.345 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 75 Resp: 84266

Ion	Ratio	Lower	Upper
75	100		
110	37.5	19.1	57.3
77	31.5	25.5	38.3

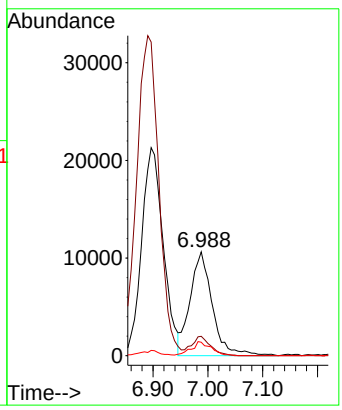




#37
Ethyl Acetate
Concen: 20.212 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 3006

Ion	Ratio	Lower	Upper
43	100		
61	15.6	13.8	20.6
70	12.1	9.2	13.8



Instrument :
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ClientSampleId :
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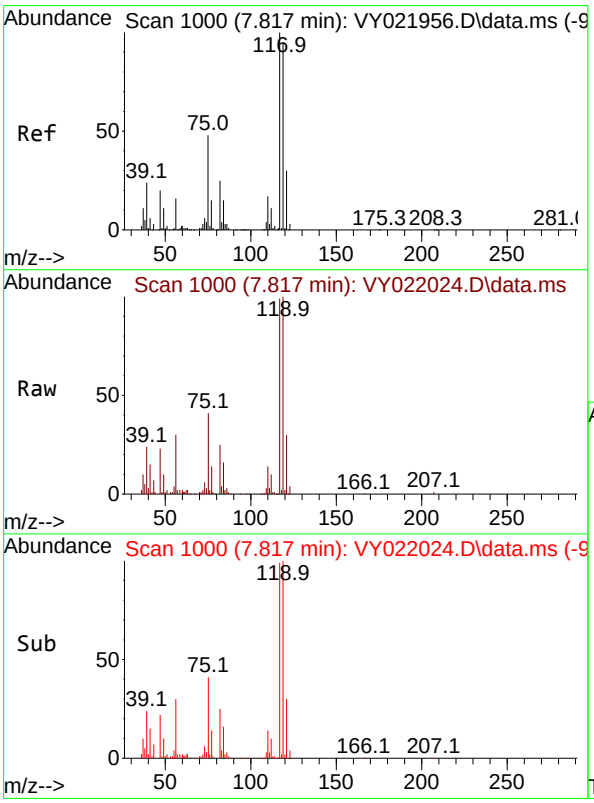
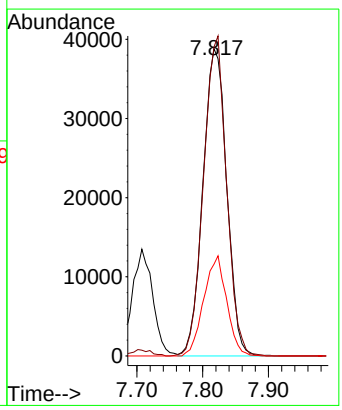
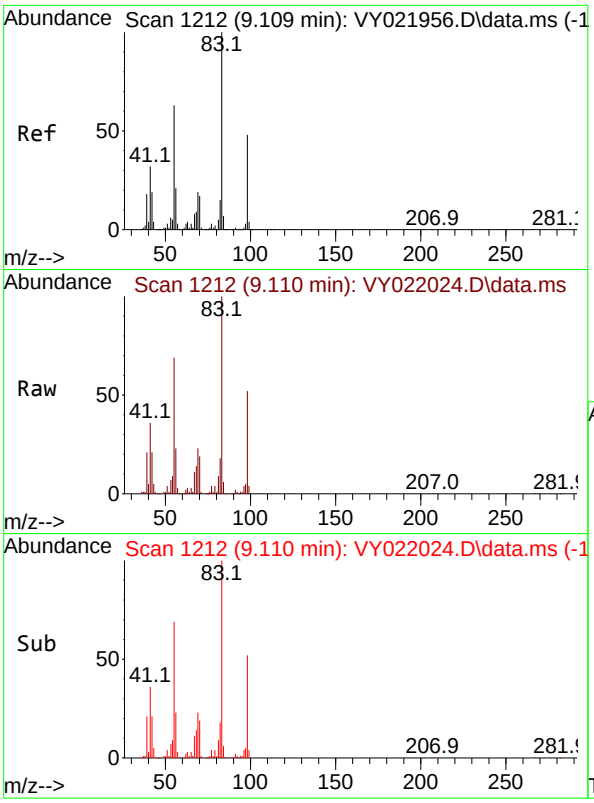


#38
Carbon Tetrachloride
Concen: 19.805 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:117 Resp: 98021

Ion	Ratio	Lower	Upper
117	100		
119	100.6	76.2	114.4
121	29.9	24.0	36.0





#39
Methylcyclohexane
Concen: 18.599 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 83 Resp: 9694

Ion	Ratio	Lower	Upper
83	100		
55	68.9	50.6	75.8
98	51.9	38.6	58.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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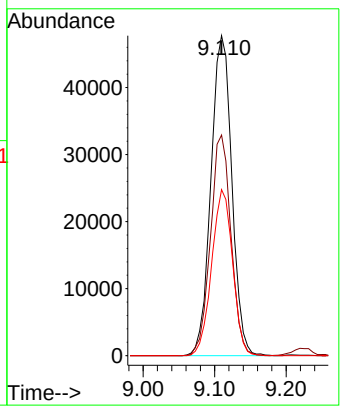
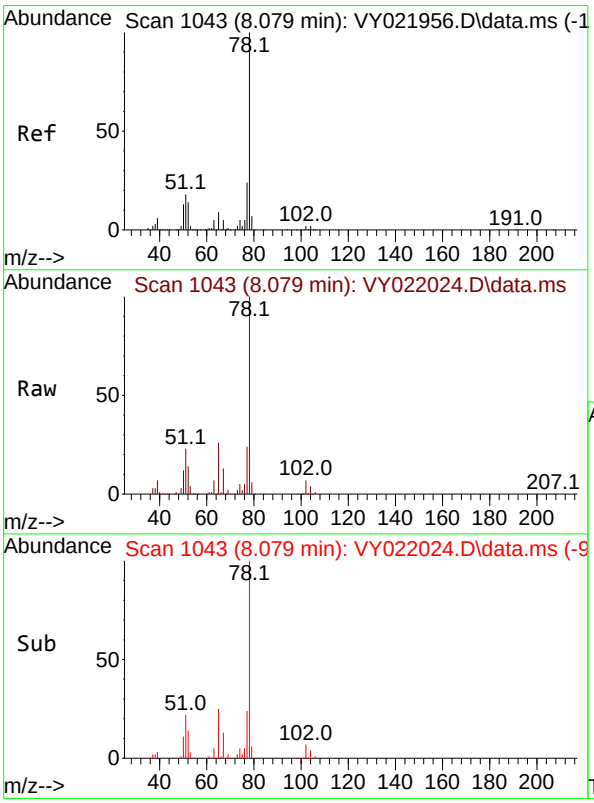
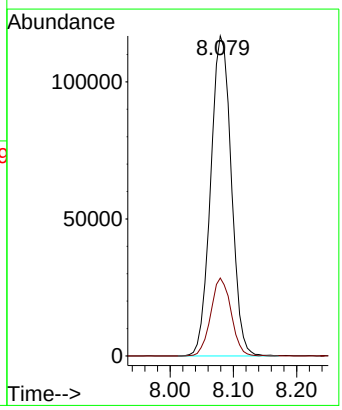


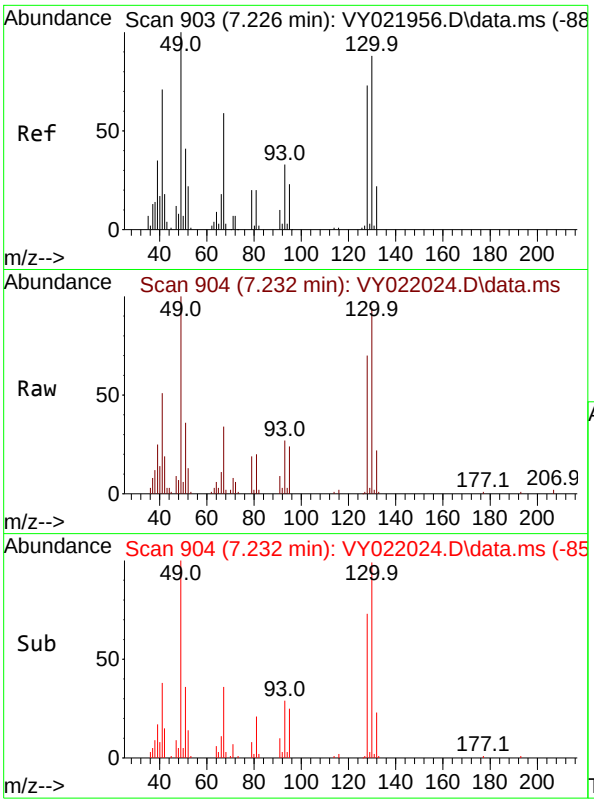


#40
Benzene
Concen: 20.443 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 78 Resp: 264687

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.3	28.9

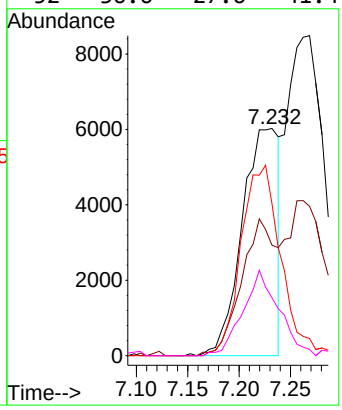




#41
Methacrylonitrile
Concen: 18.385 ug/l
RT: 7.232 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 41 Resp: 1495

Ion	Ratio	Lower	Upper
41	100		
39	56.4	36.6	55.0
67	92.1	72.2	108.4
52	36.6	27.6	41.4



Instrument :
MSVOA_Y
ClientSampleId :
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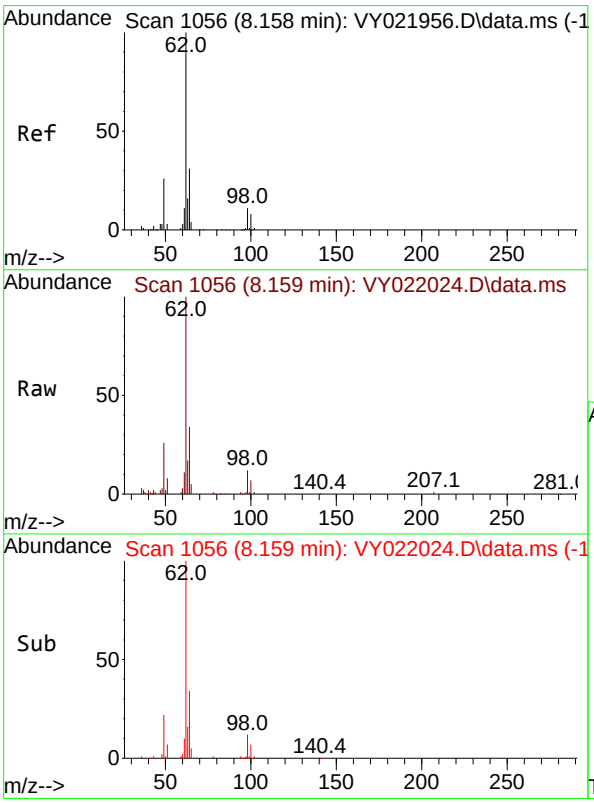
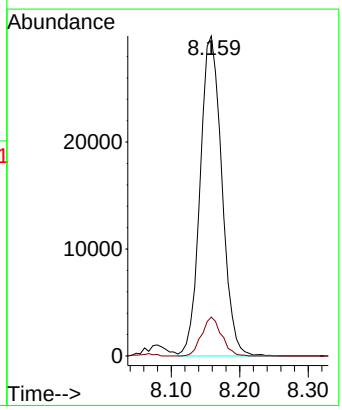
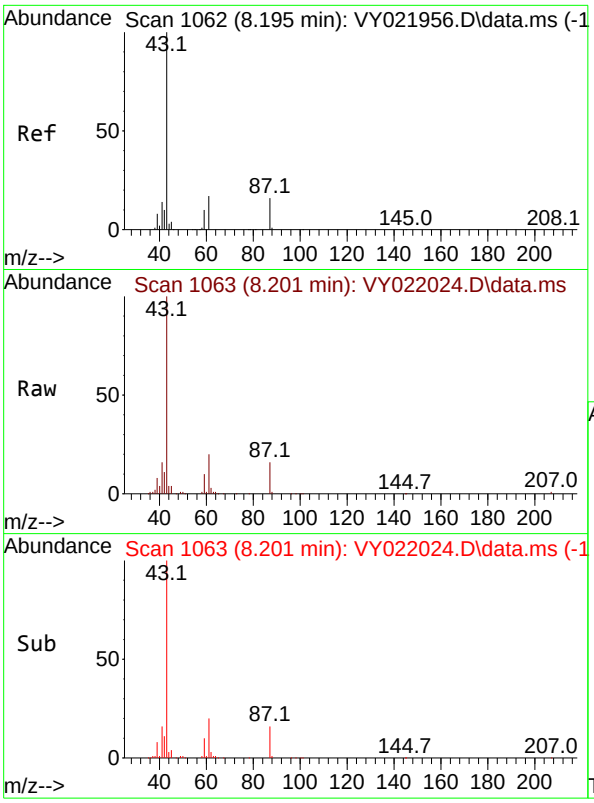


#42
1,2-Dichloroethane
Concen: 20.582 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 62 Resp: 65978

Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	22.0

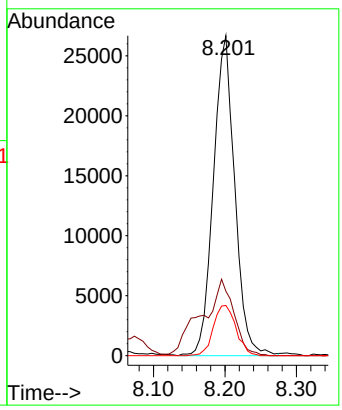




#43
Isopropyl Acetate
Concen: 19.390 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 5539

Ion	Ratio	Lower	Upper
43	100		
61	36.1	18.9	28.3#
87	16.6	13.7	20.5



Instrument :
MSVOA_Y
ClientSampleId :
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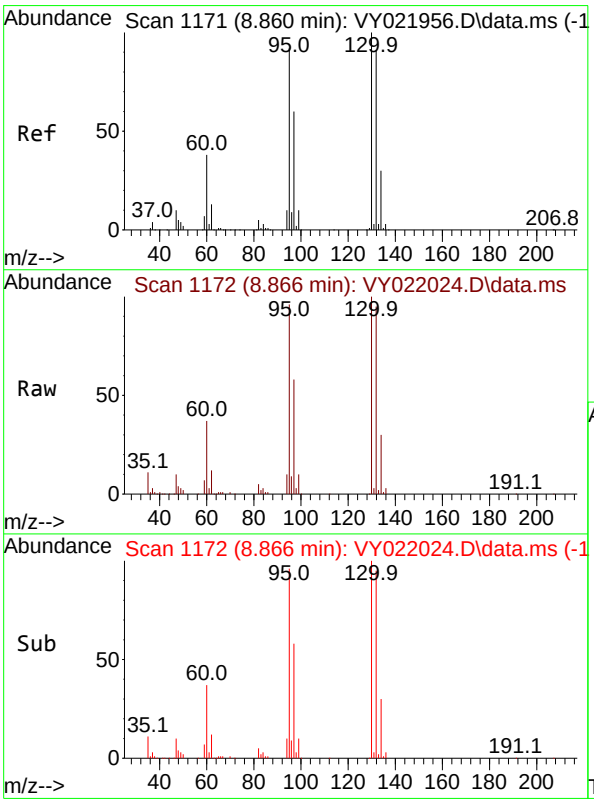
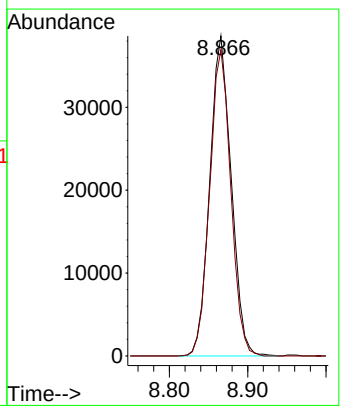
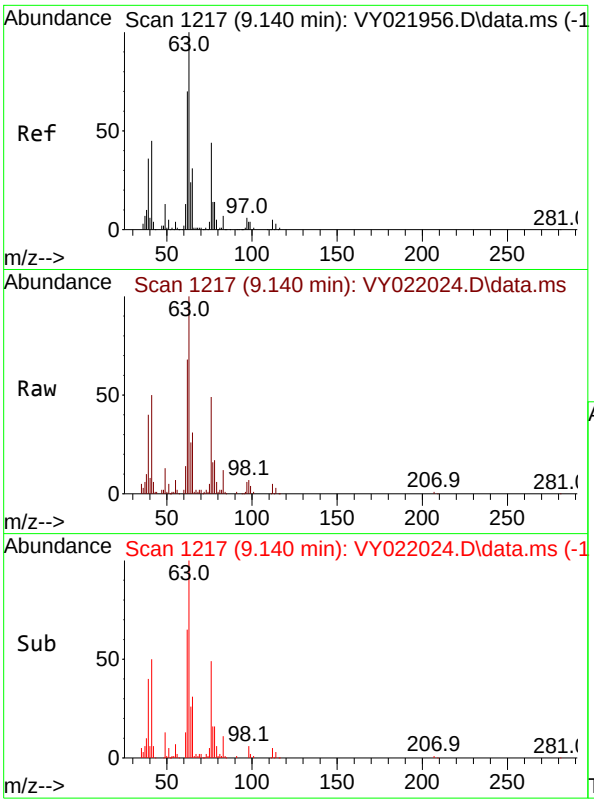


#44
Trichloroethene
Concen: 20.483 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:130 Resp: 73456

Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	183.2

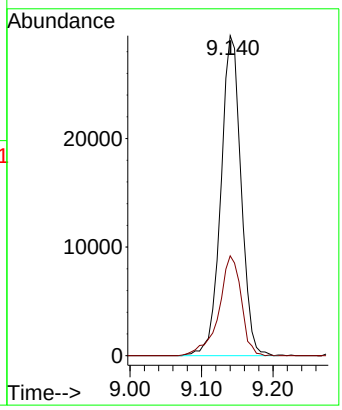




#45
1,2-Dichloropropane
Concen: 20.206 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 63 Resp: 5785

Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.2	37.8



Instrument :
MSVOA_Y
ClientSampleId :
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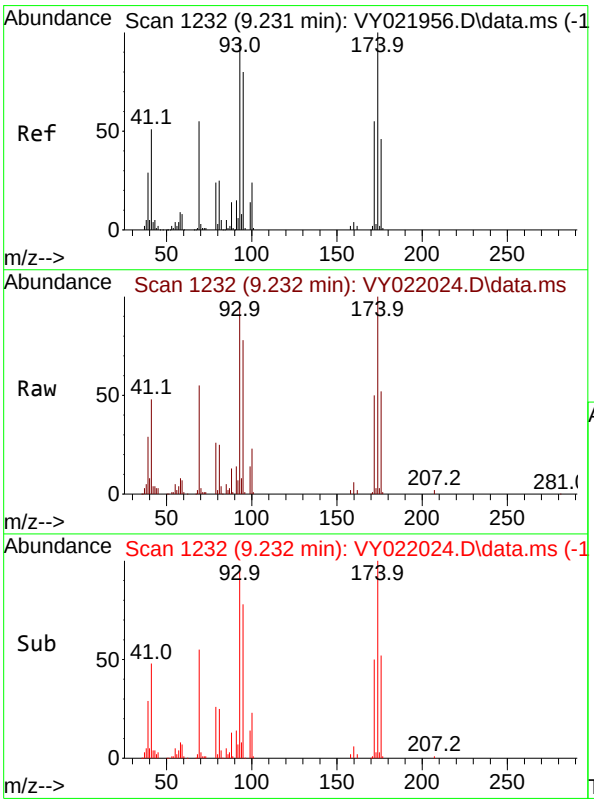
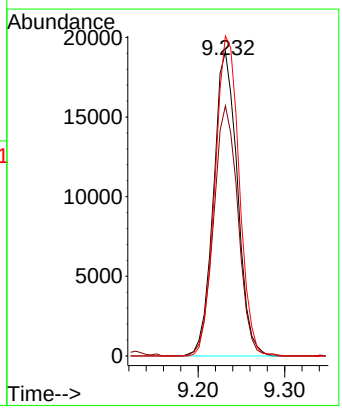
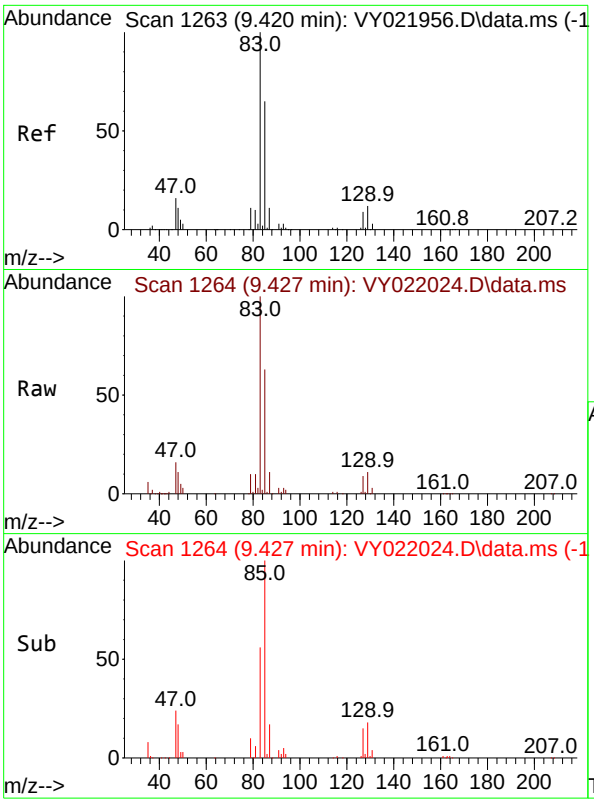


#46
Dibromomethane
Concen: 20.368 ug/l
RT: 9.232 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 93 Resp: 36507

Ion	Ratio	Lower	Upper
93	100		
95	83.8	66.7	100.1
174	106.5	84.6	127.0

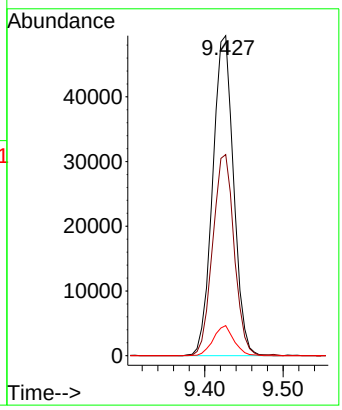




#47
Bromodichloromethane
Concen: 20.518 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 83 Resp: 9186

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.8	77.8
127	9.4	7.0	10.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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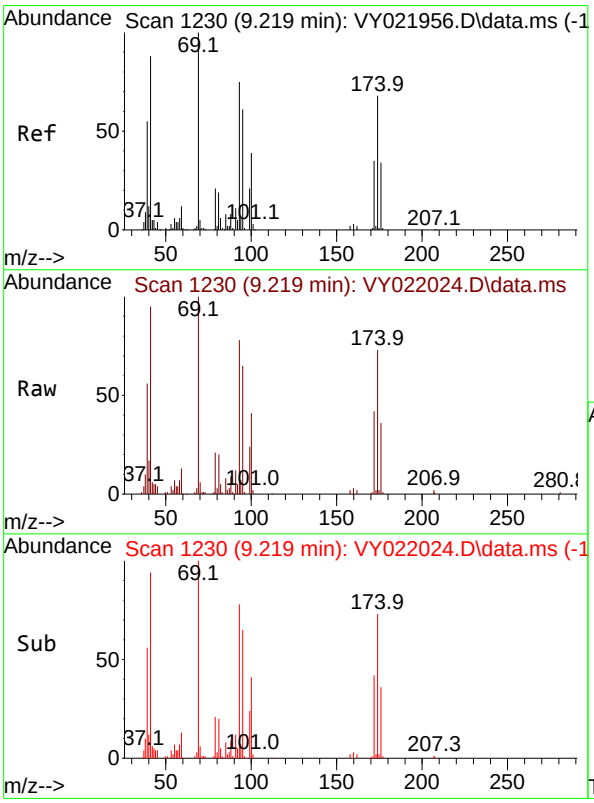
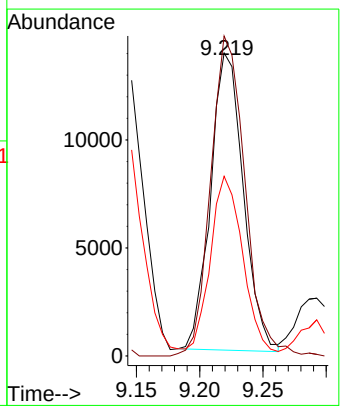
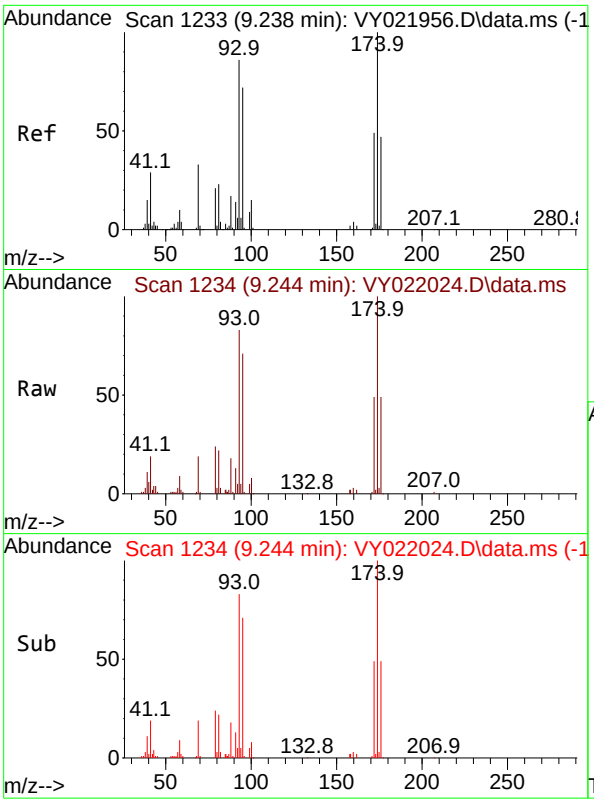


#48
Methyl methacrylate
Concen: 18.731 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 41 Resp: 24736

Ion	Ratio	Lower	Upper
41	100		
69	113.0	85.5	128.3
39	57.1	46.2	69.4

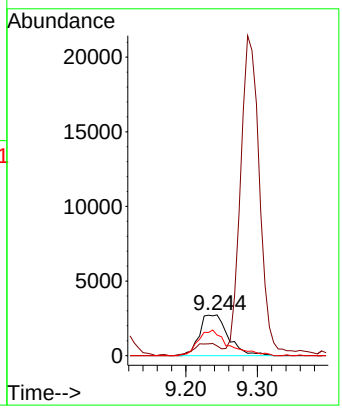




#49
1,4-Dioxane
Concen: 399.035 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 88 Resp: 762

Ion	Ratio	Lower	Upper
88	100		
43	26.3	21.3	31.9
58	66.3	50.5	75.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
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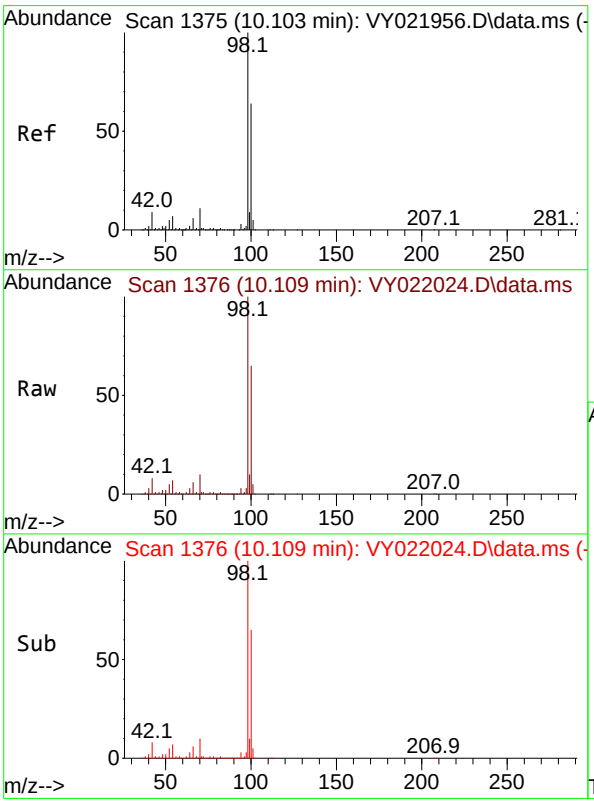
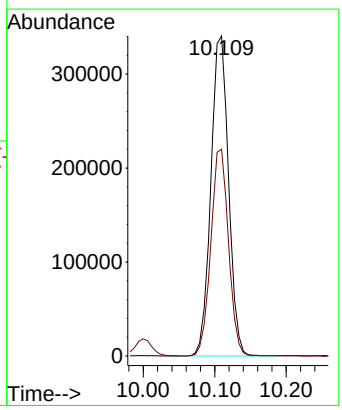
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

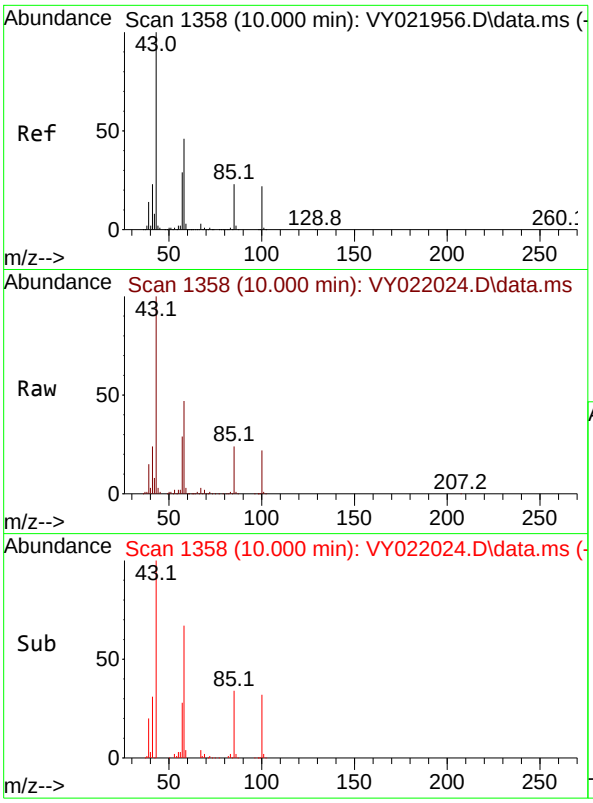


#50
Toluene-d8
Concen: 50.256 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 98 Resp: 584198

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.6	77.4

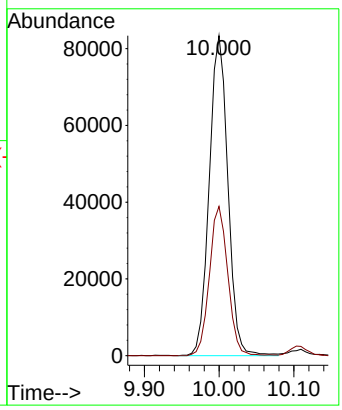




#51
4-Methyl-2-Pentanone
Concen: 96.444 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 14442

Ion	Ratio	Lower	Upper
43	100		
58	46.1	36.6	55.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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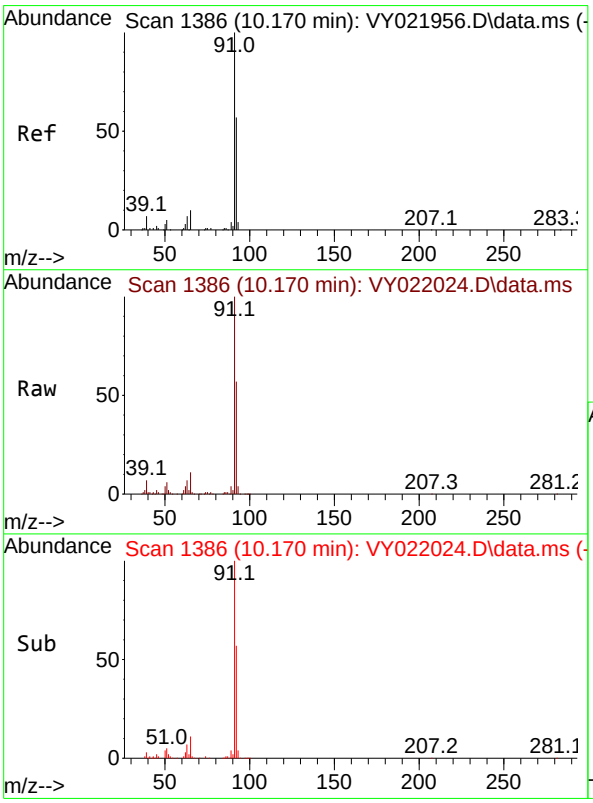
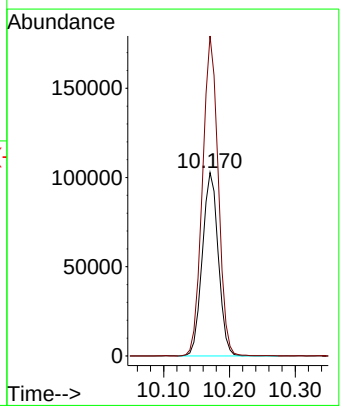
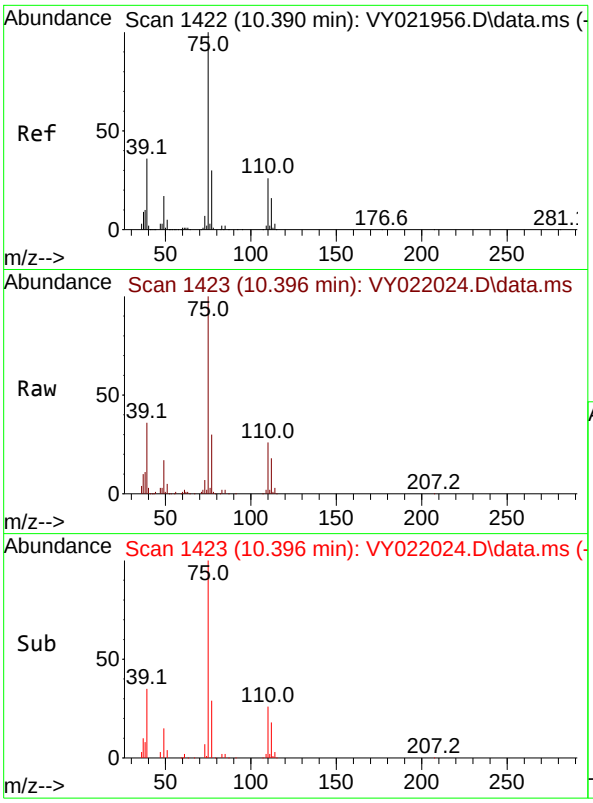


#52
Toluene
Concen: 20.700 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 92 Resp: 173484

Ion	Ratio	Lower	Upper
92	100		
91	172.3	138.6	207.8

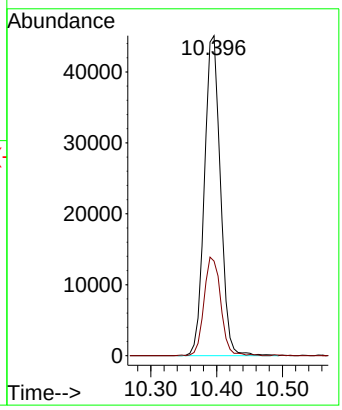




#53
t-1,3-Dichloropropene
Concen: 19.883 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 75 Resp: 7636

Ion	Ratio	Lower	Upper
75	100		
77	29.4	24.0	36.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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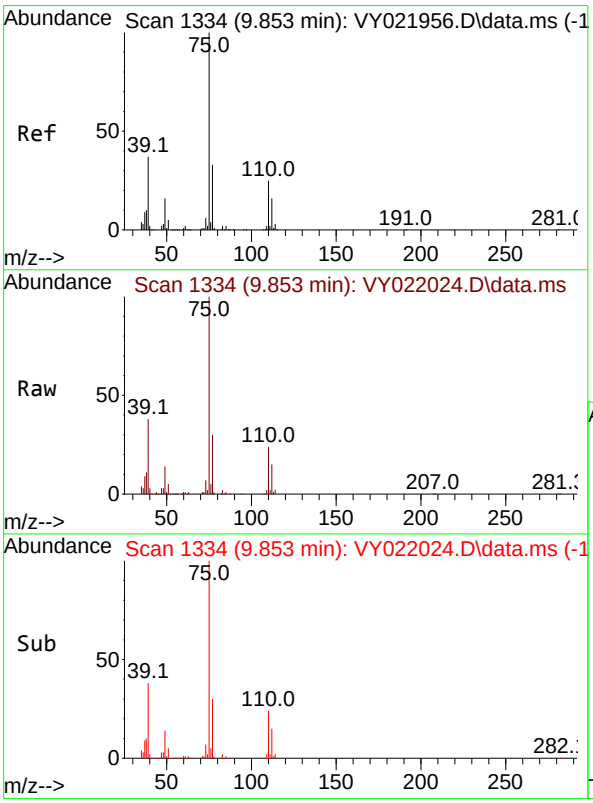
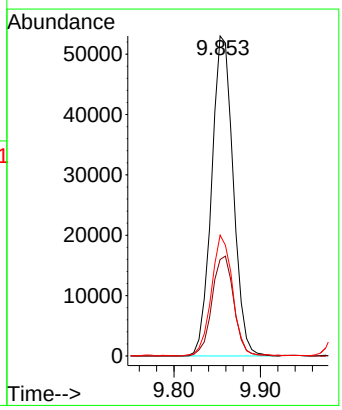
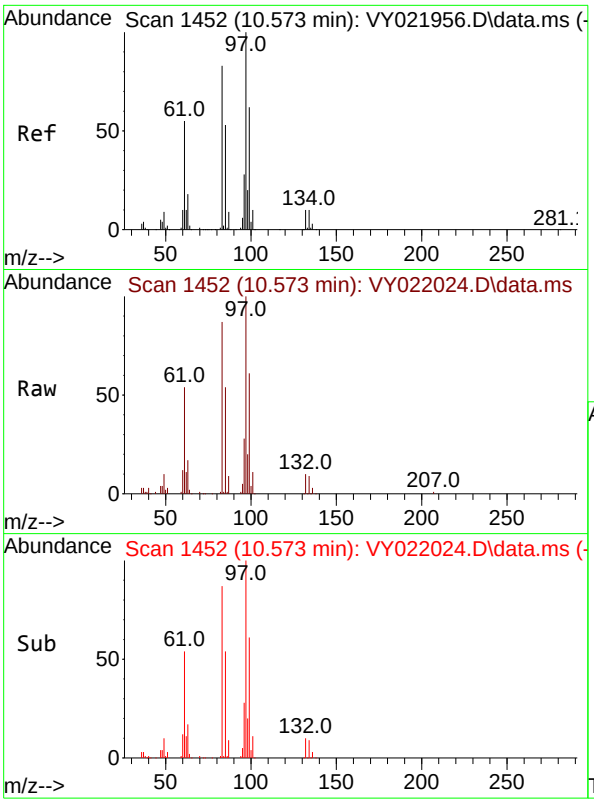


#54
cis-1,3-Dichloropropene
Concen: 20.137 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 75 Resp: 91935

Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.6	40.0
39	37.8	29.6	44.4

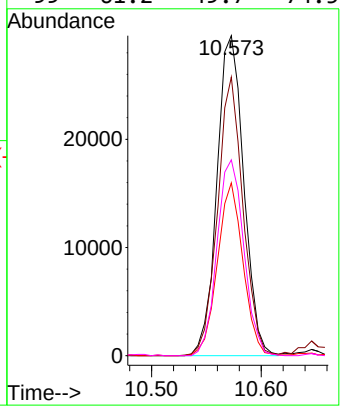




#55
1,1,2-Trichloroethane
Concen: 20.981 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 97 Resp: 5023

Ion	Ratio	Lower	Upper
97	100		
83	87.1	66.7	100.1
85	54.0	42.6	64.0
99	61.2	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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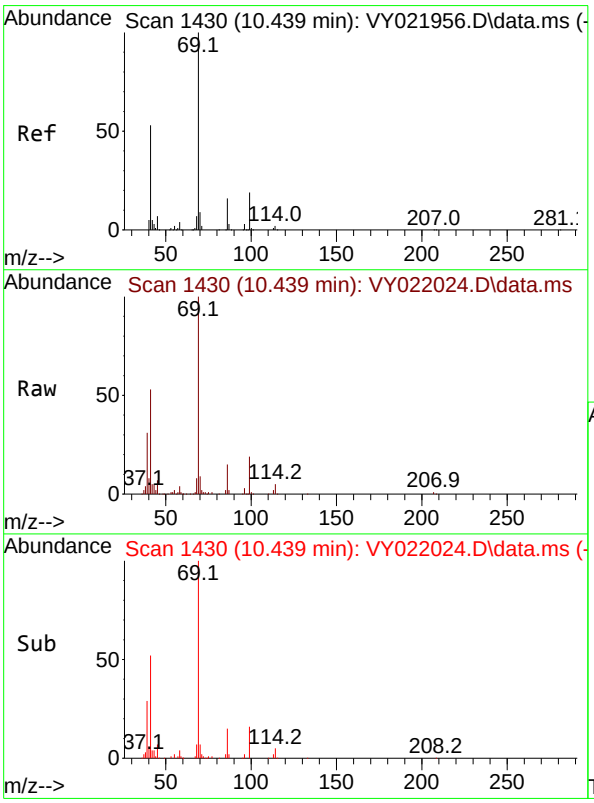
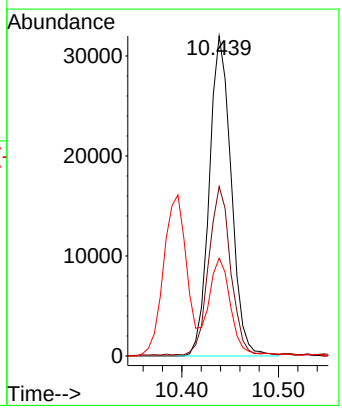
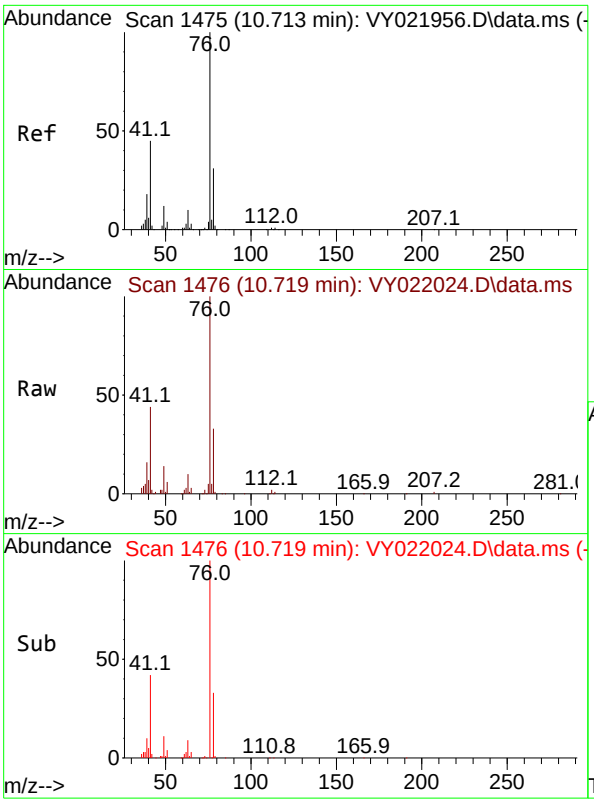


#56
Ethyl methacrylate
Concen: 18.381 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 69 Resp: 50325

Ion	Ratio	Lower	Upper
69	100		
41	52.6	40.7	61.1
39	31.2	23.3	34.9





#57
1,3-Dichloropropane
Concen: 20.097 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 76 Resp: 7713

Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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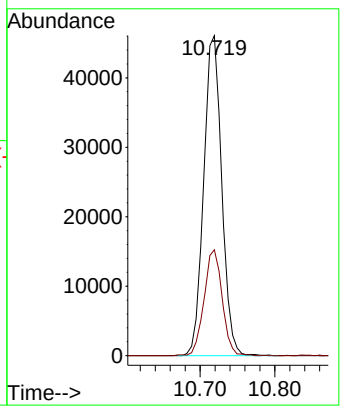
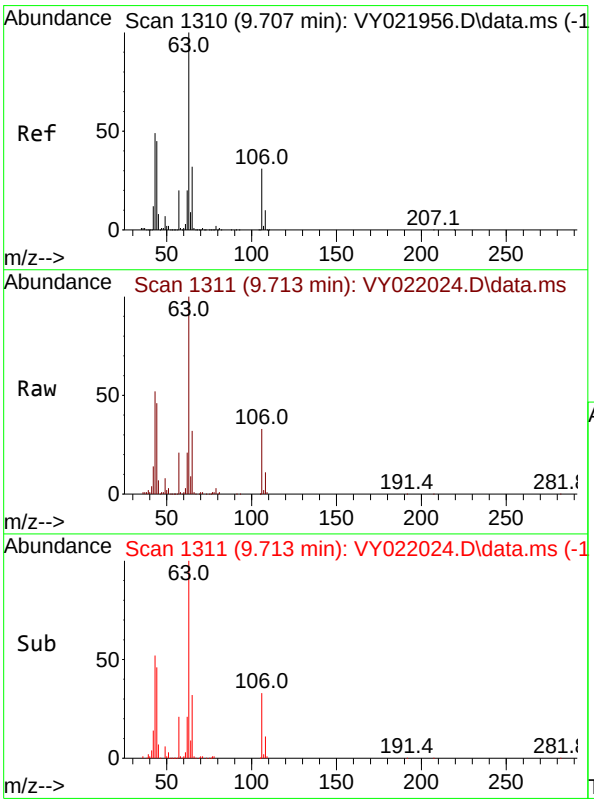
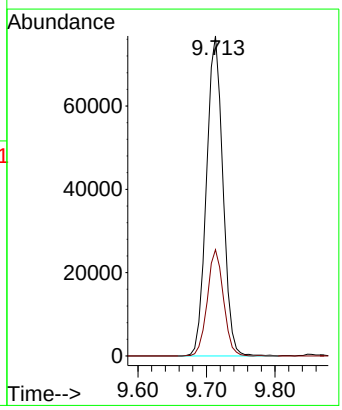


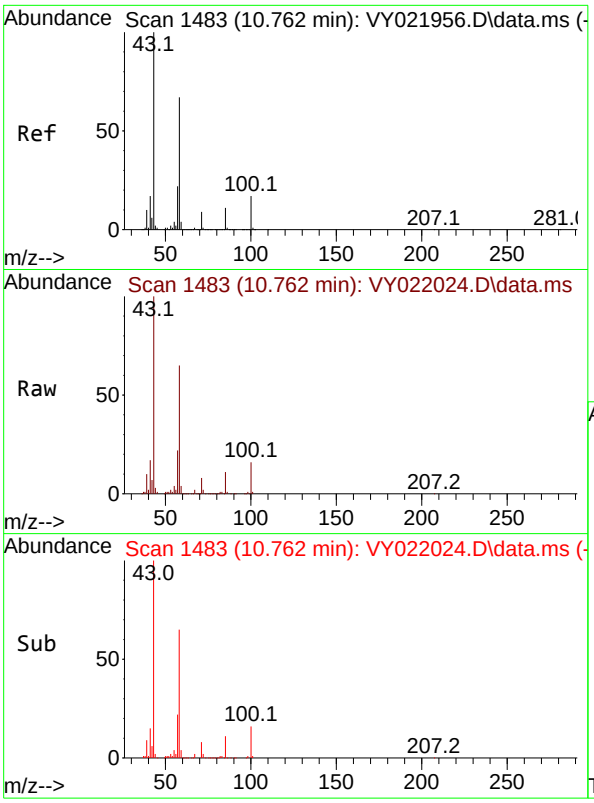


#58
2-Chloroethyl Vinyl ether
Concen: 95.443 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 63 Resp: 127764

Ion	Ratio	Lower	Upper
63	100		
106	32.7	25.3	37.9

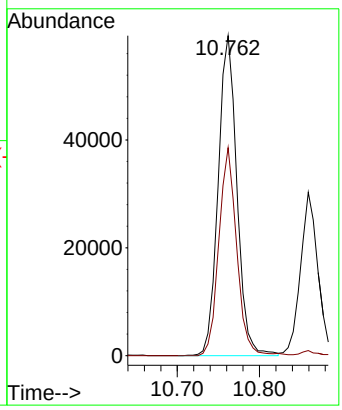




#59
2-Hexanone
Concen: 95.387 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 9421

Ion	Ratio	Lower	Upper
43	100		
58	61.9	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
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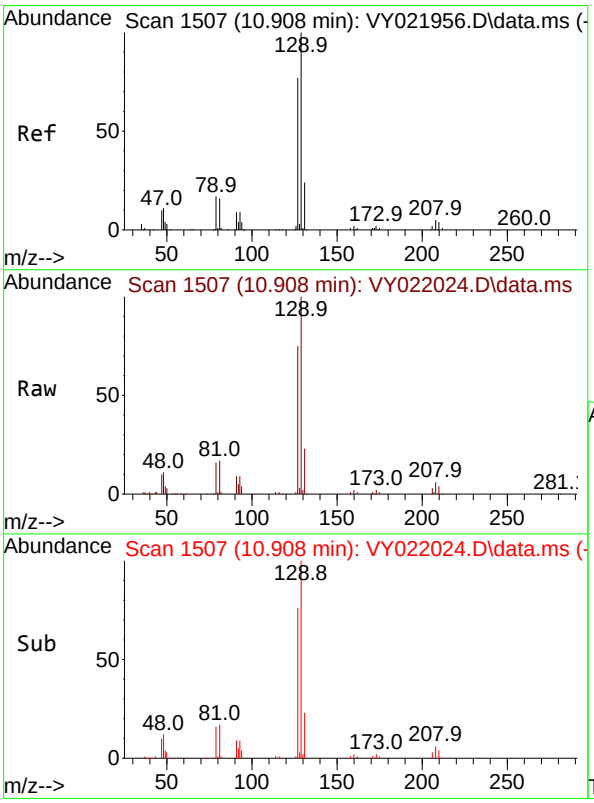
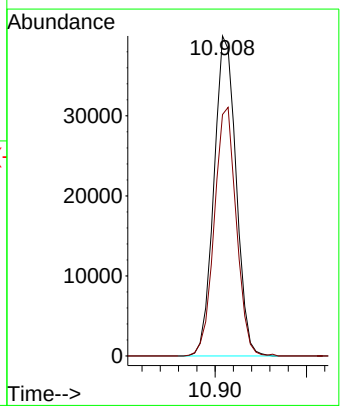
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

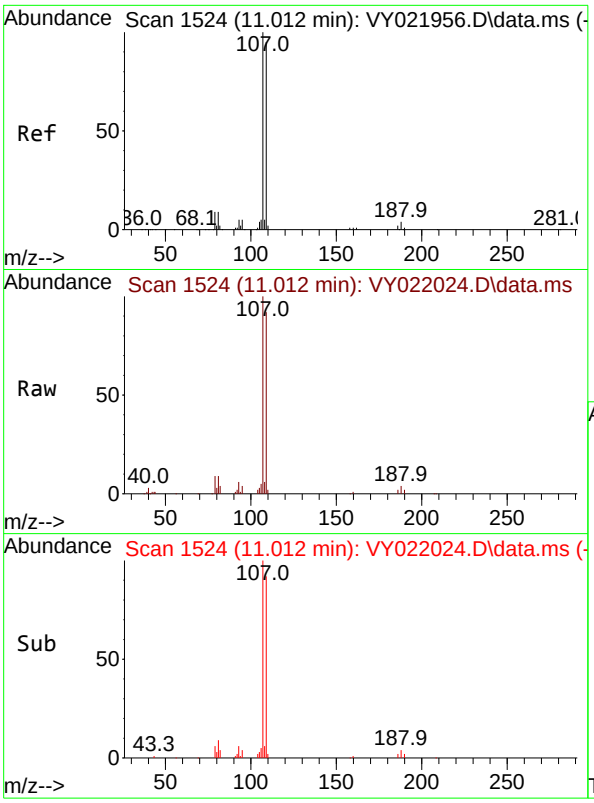


#60
Dibromochloromethane
Concen: 20.304 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:129 Resp: 67301

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.3

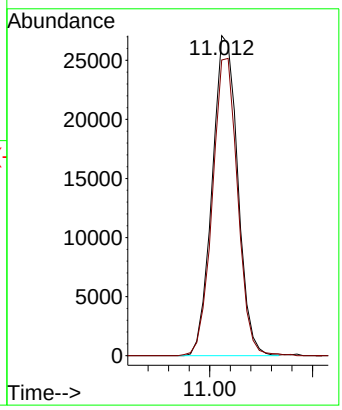




#61
1,2-Dibromoethane
Concen: 20.658 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:107 Resp: 4669

Ion	Ratio	Lower	Upper
107	100		
109	91.8	75.8	113.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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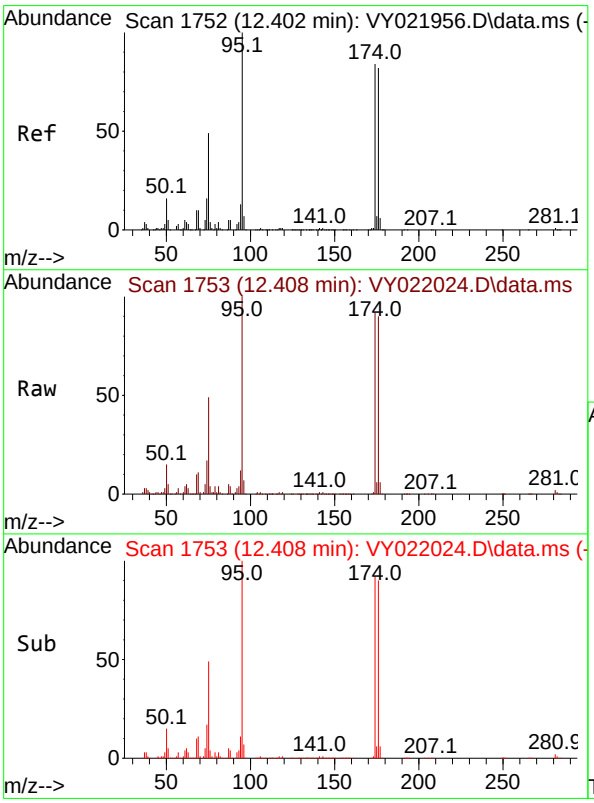
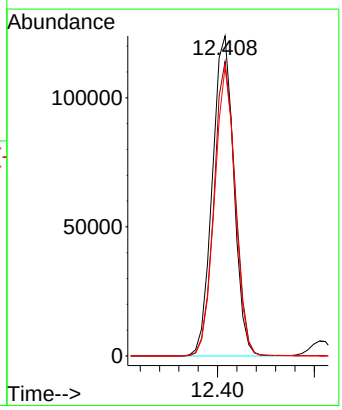
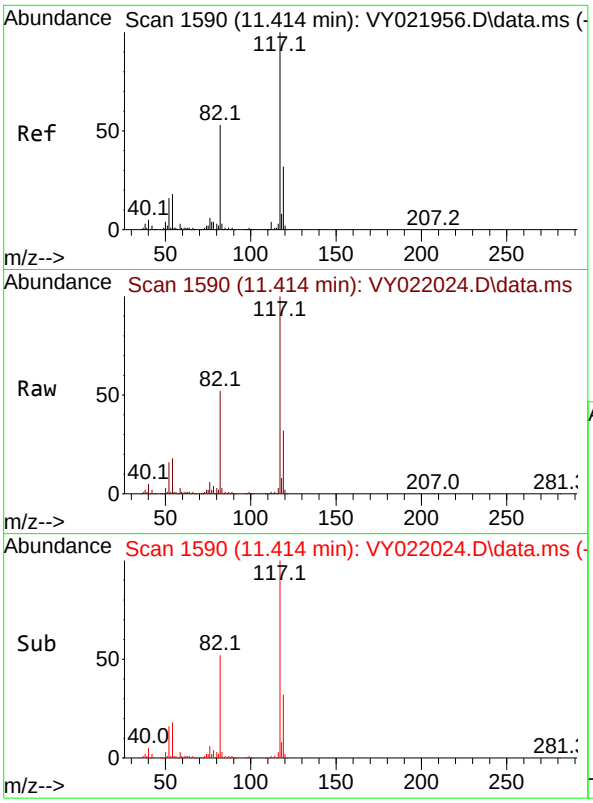


#62
4-Bromofluorobenzene
Concen: 48.805 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 95 Resp: 190988

Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	179.0
176	87.4	0.0	171.8

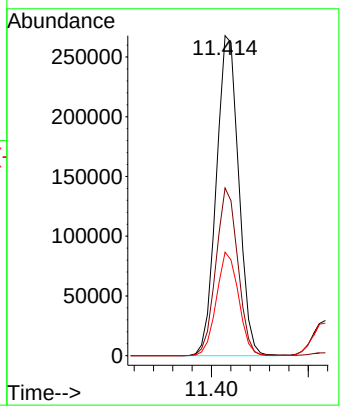




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:117 Resp: 43010

Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.1	63.1
119	32.3	25.7	38.5



Instrument :
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ClientSampleId :
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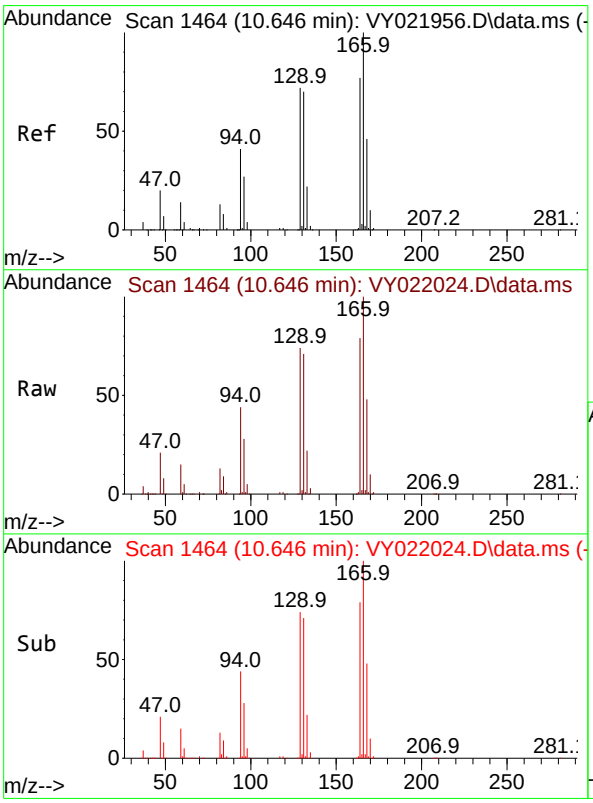
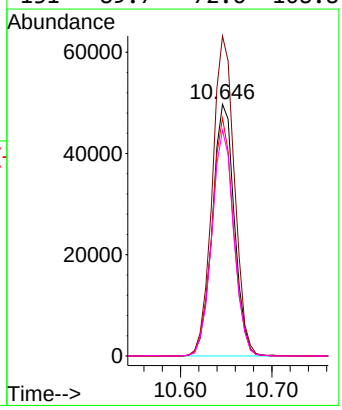
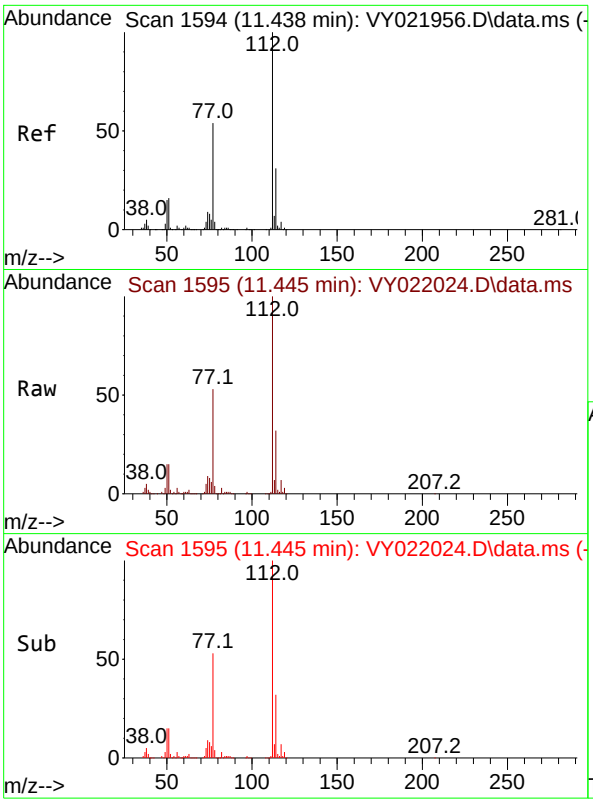


#64
Tetrachloroethene
Concen: 20.462 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:164 Resp: 83023

Ion	Ratio	Lower	Upper
164	100		
166	127.1	103.6	155.4
129	94.4	74.2	111.4
131	89.7	72.6	108.8

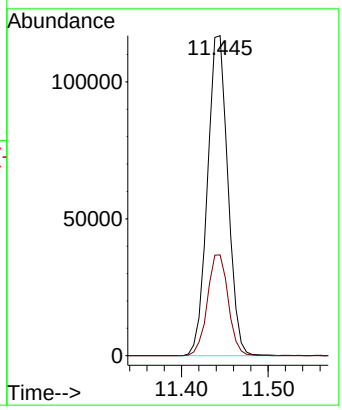




#65
Chlorobenzene
Concen: 19.892 ug/l
RT: 11.445 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:112 Resp: 19132

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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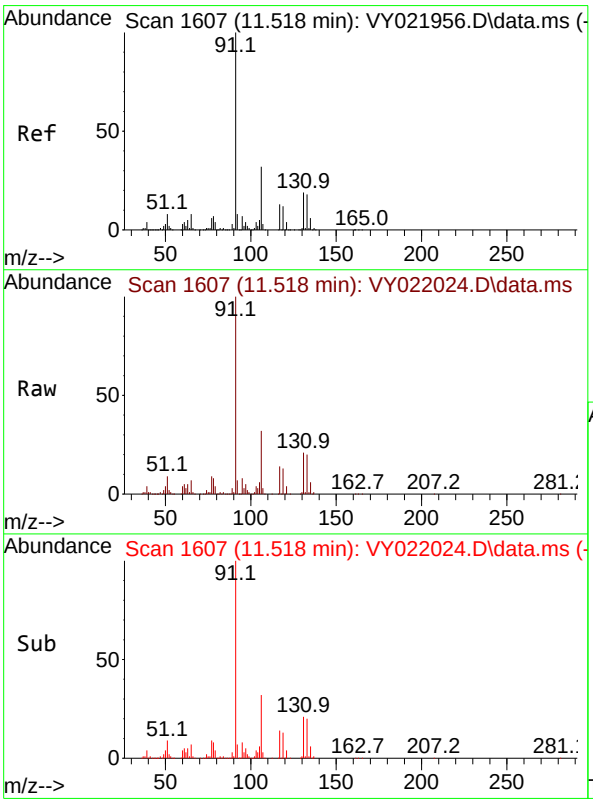
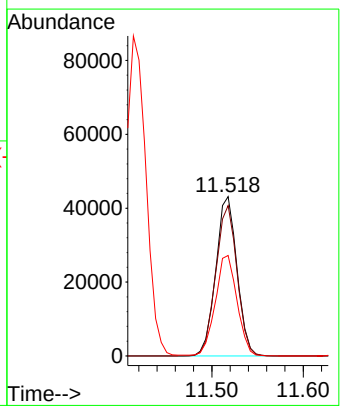
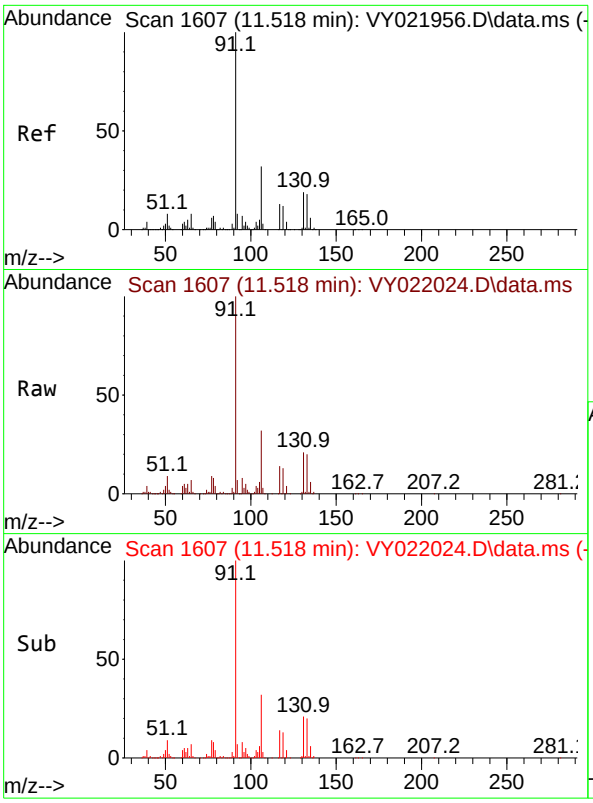


#66
1,1,1,2-Tetrachloroethane
Concen: 20.558 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:131 Resp: 69613

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.8	143.3
119	64.9	32.4	97.0





#67
Ethyl Benzene
Concen: 19.716 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 91 Resp: 31020

Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.9	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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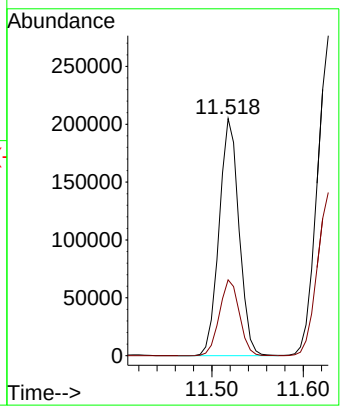
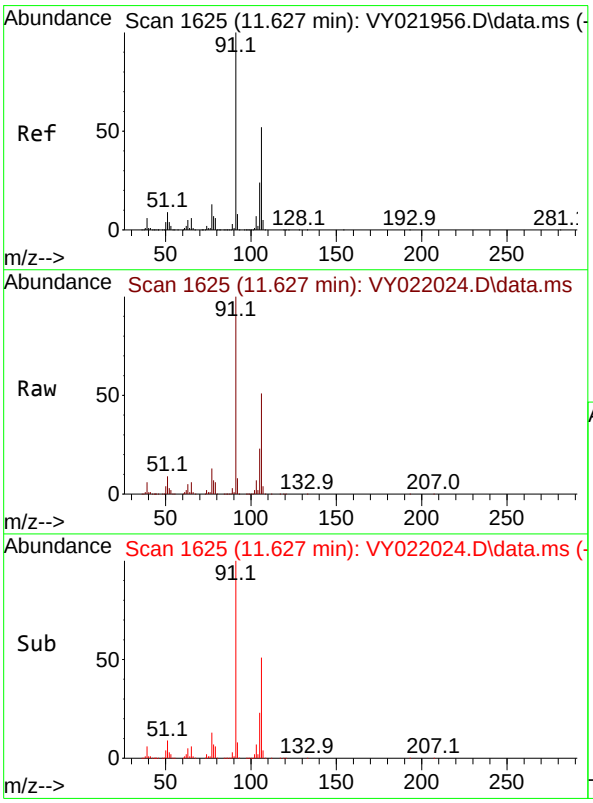
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

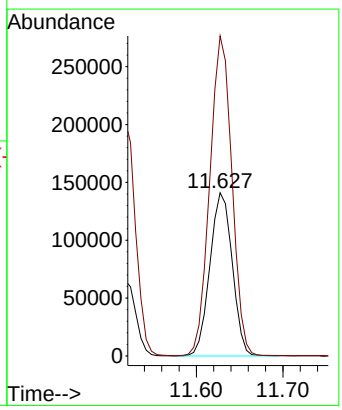


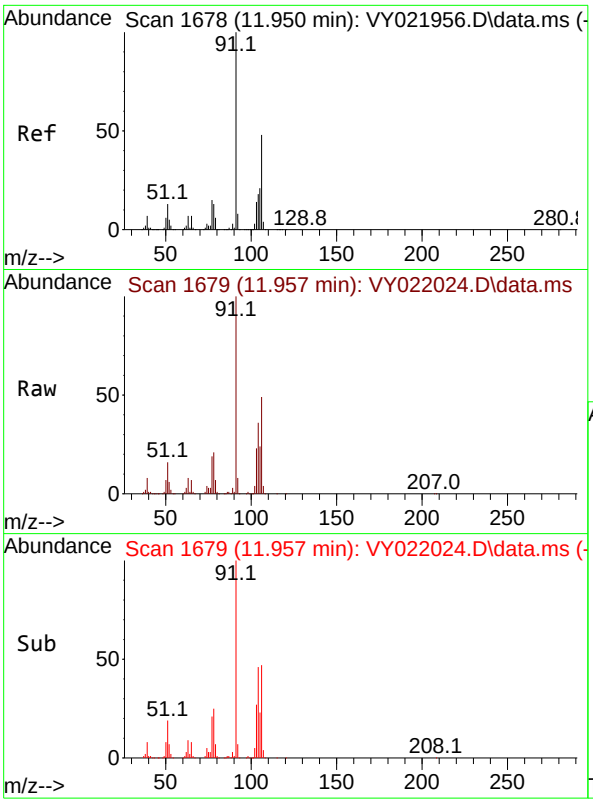


#68
m/p-Xylenes
Concen: 40.415 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:106 Resp: 253033

Ion	Ratio	Lower	Upper
106	100		
91	194.0	156.2	234.2

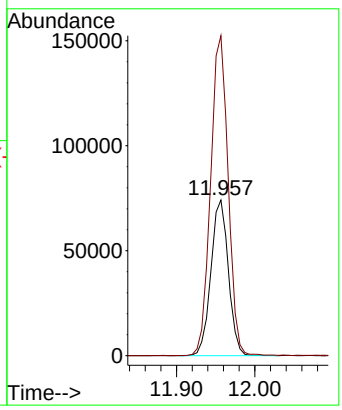




#69
o-Xylene
Concen: 19.899 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:106 Resp: 11482

Ion	Ratio	Lower	Upper
106	100		
91	206.5	103.0	308.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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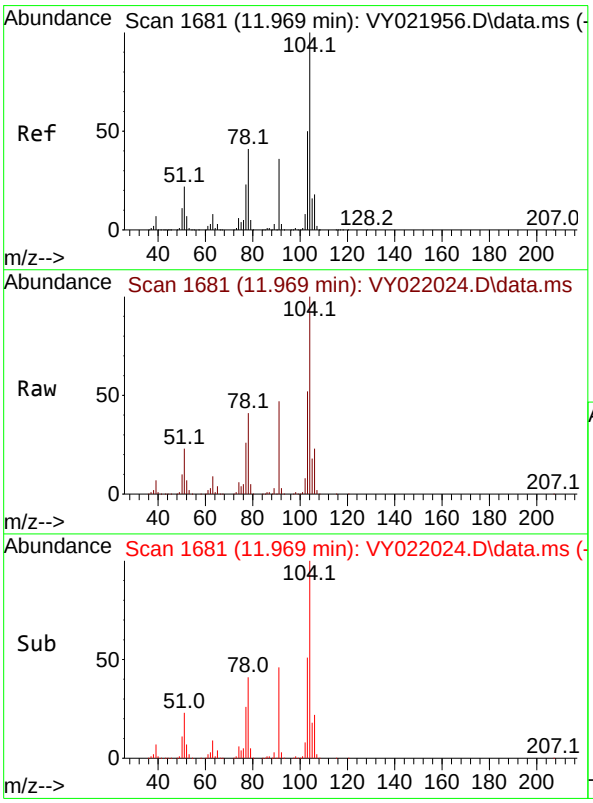
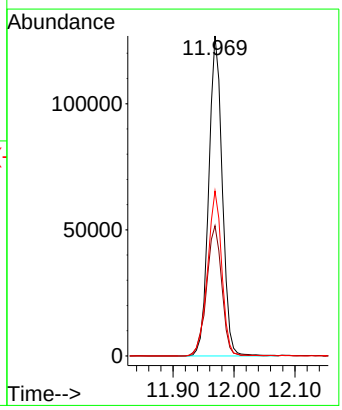
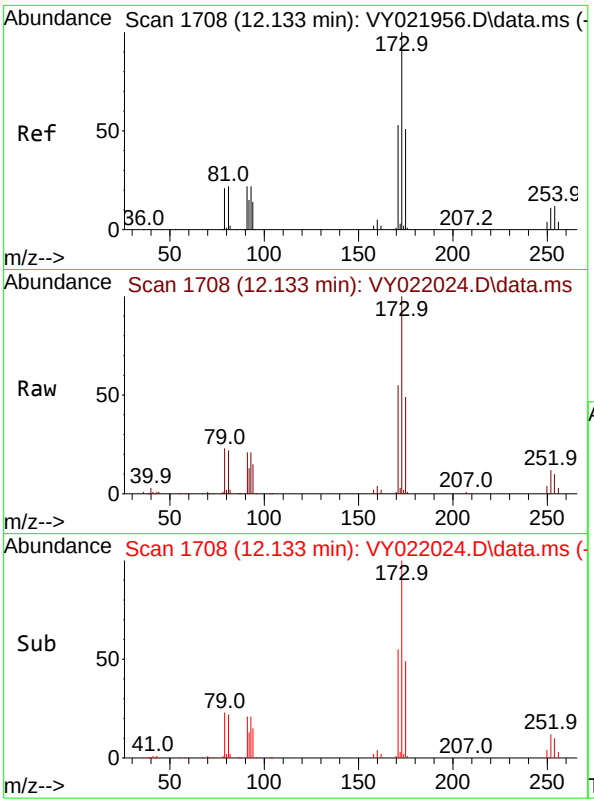


#70
Styrene
Concen: 20.210 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:104 Resp: 195808

Ion	Ratio	Lower	Upper
104	100		
78	45.6	36.6	54.8
103	54.4	43.8	65.8

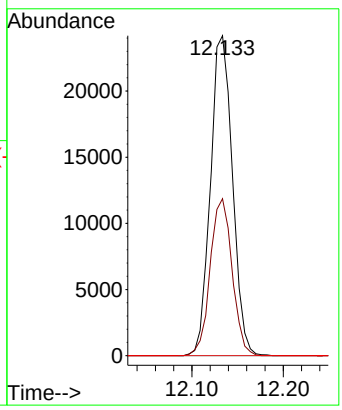




#71
Bromoform
Concen: 20.560 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:173 Resp: 4047

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	72.8
254	0.0	0.0	0.0



Instrument :
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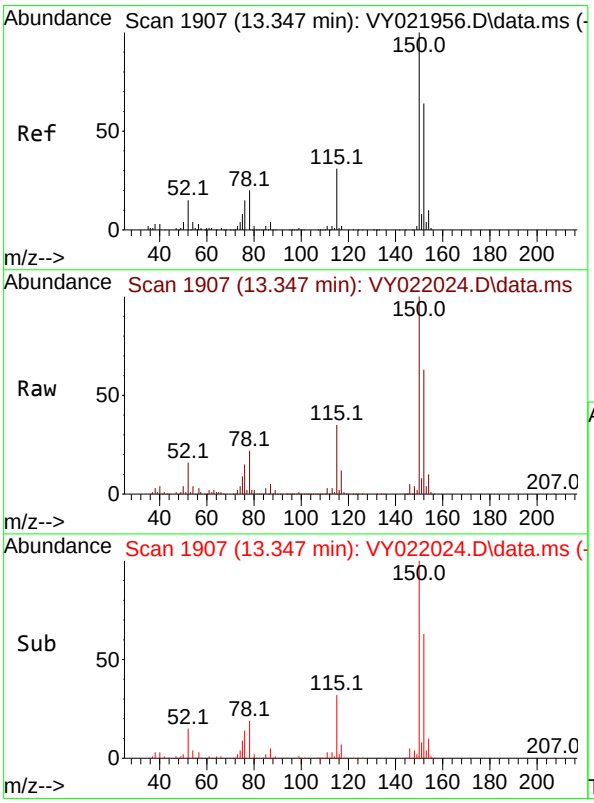
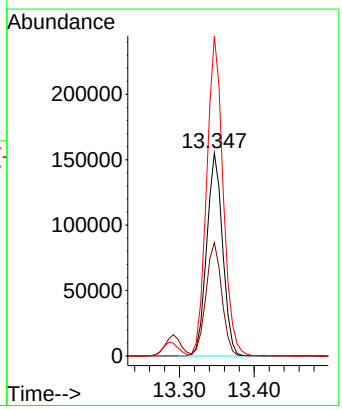
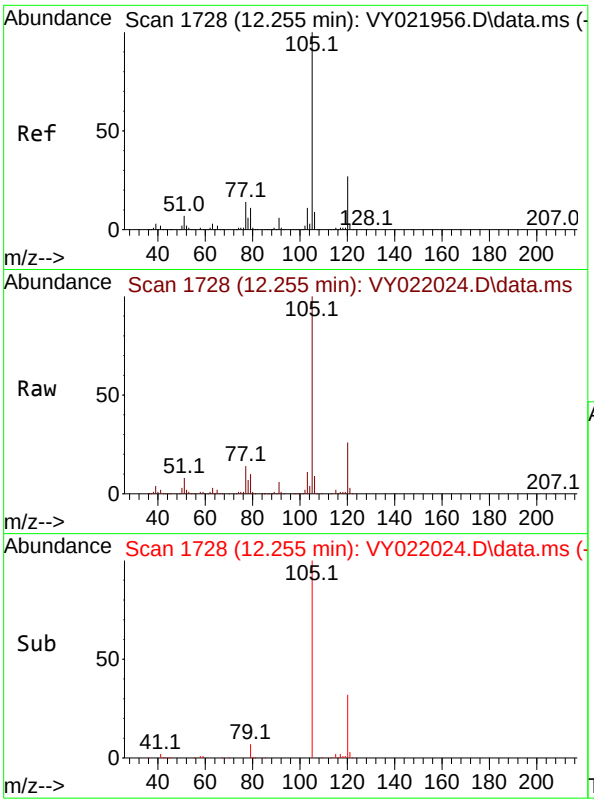


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:152 Resp: 228742

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.0	84.0
150	163.6	0.0	345.6

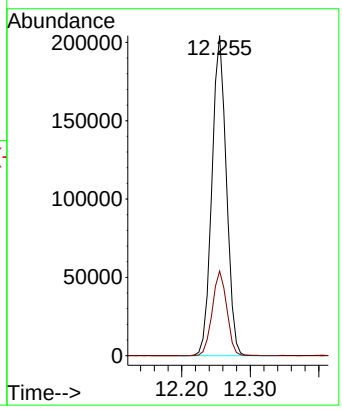




#73
Isopropylbenzene
Concen: 19.549 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:105 Resp: 29875

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.5	40.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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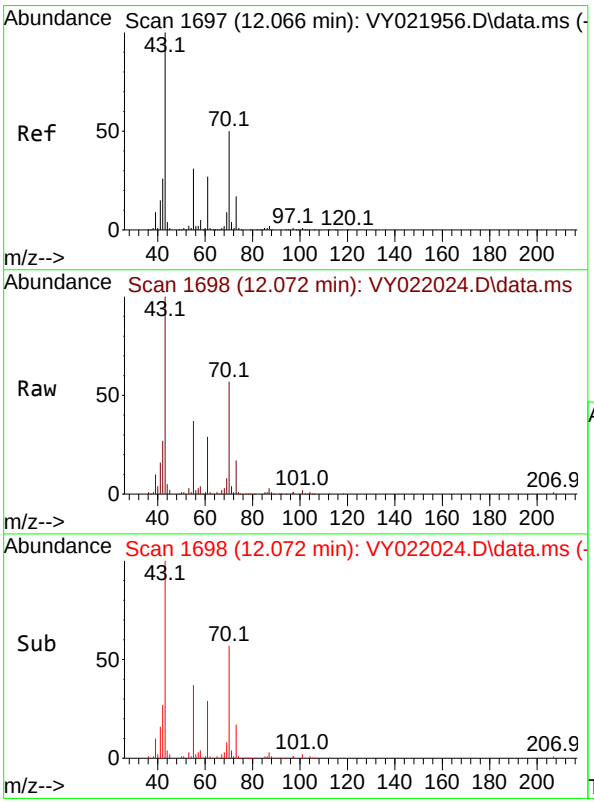
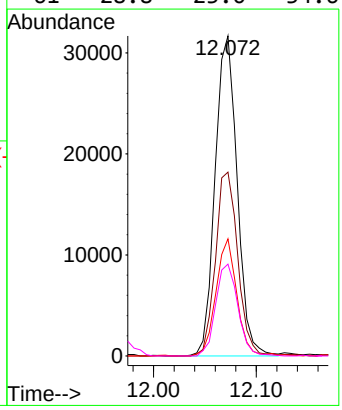
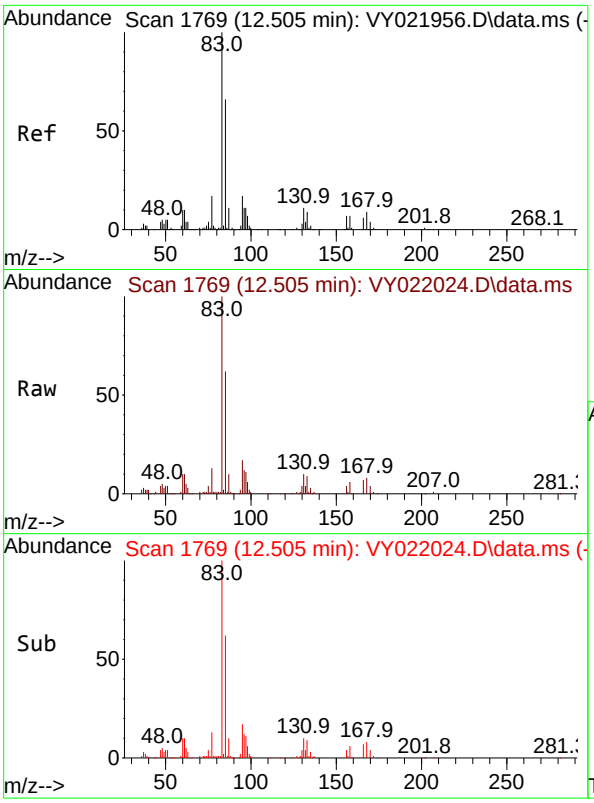


#74
N-amyl acetate
Concen: 17.999 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 43 Resp: 47258

Ion	Ratio	Lower	Upper
43	100		
70	58.2	43.2	64.8
55	34.8	25.7	38.5
61	28.8	23.0	34.6

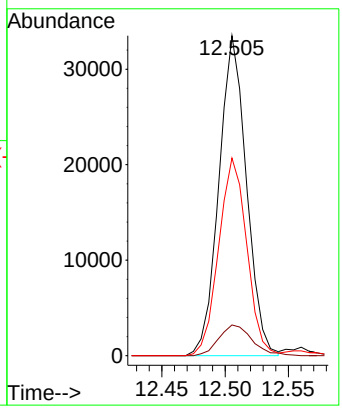




#75
1,1,2,2-Tetrachloroethane
Concen: 19.701 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 83 Resp: 5076

Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.5	16.4
85	63.0	32.3	96.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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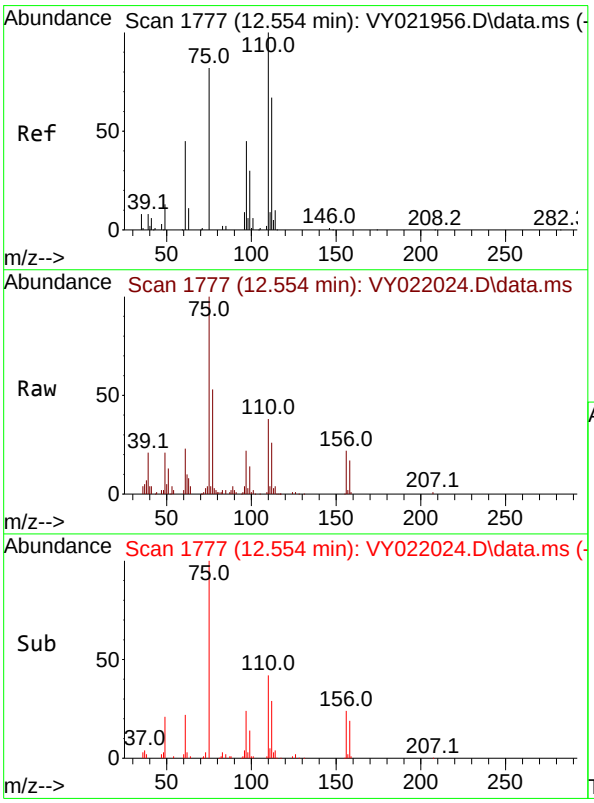
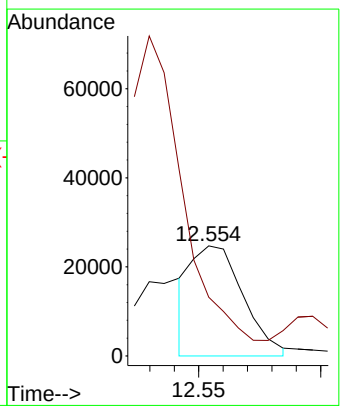
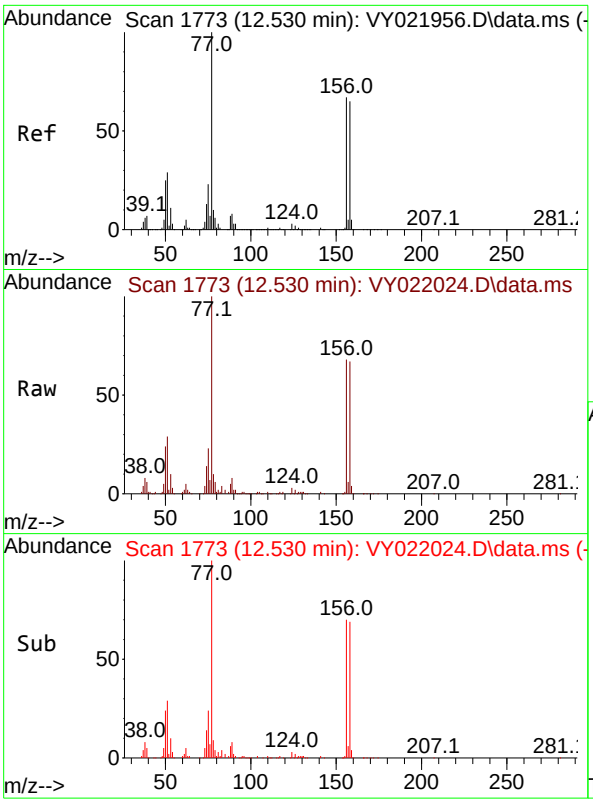


#76
1,2,3-Trichloropropane
Concen: 18.823 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 75 Resp: 36880

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

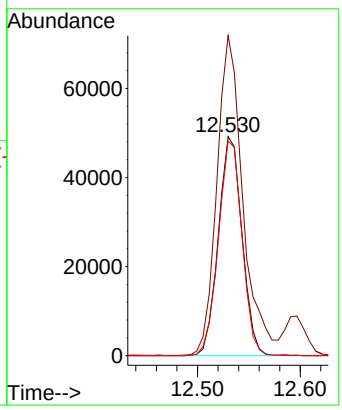




#77
Bromobenzene
Concen: 20.371 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:156 Resp: 7866

Ion	Ratio	Lower	Upper
156	100		
77	160.9	82.7	248.1
158	97.8	48.1	144.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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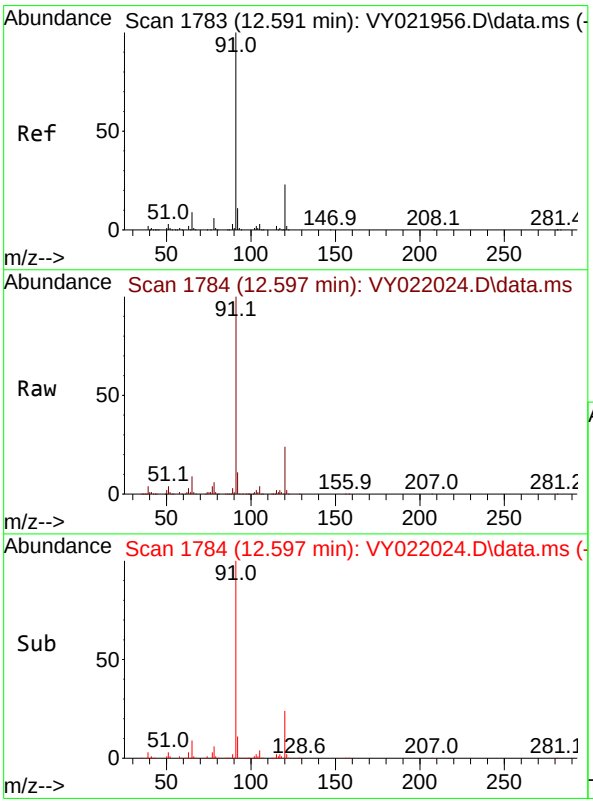
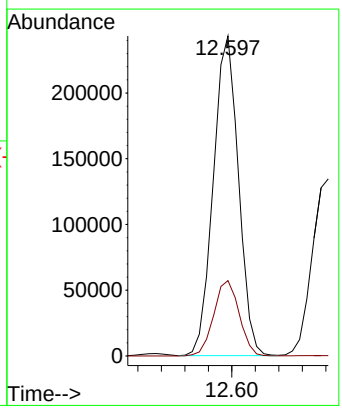
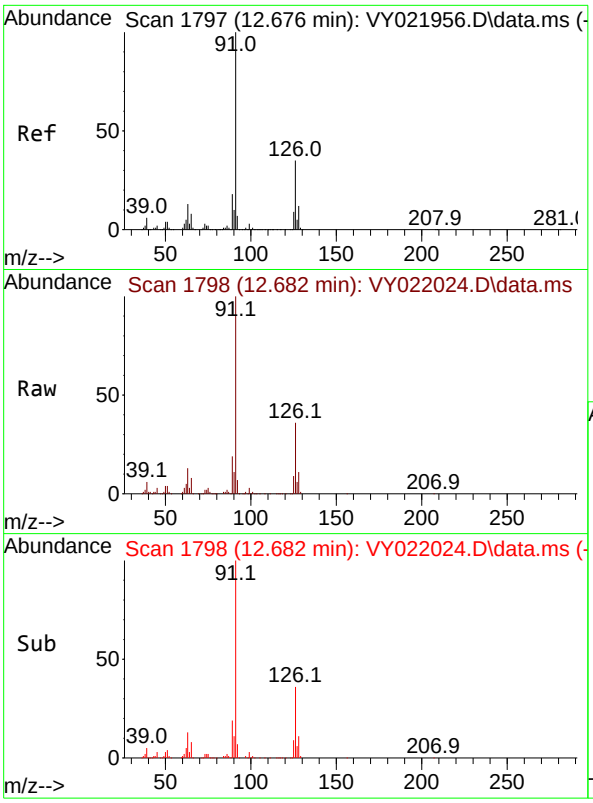


#78
n-propylbenzene
Concen: 19.846 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 91 Resp: 361182

Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.9	35.5

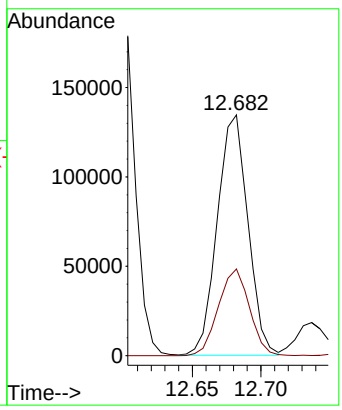




#79
2-Chlorotoluene
Concen: 19.762 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 91 Resp: 20916

Ion	Ratio	Lower	Upper
91	100		
126	36.4	17.9	53.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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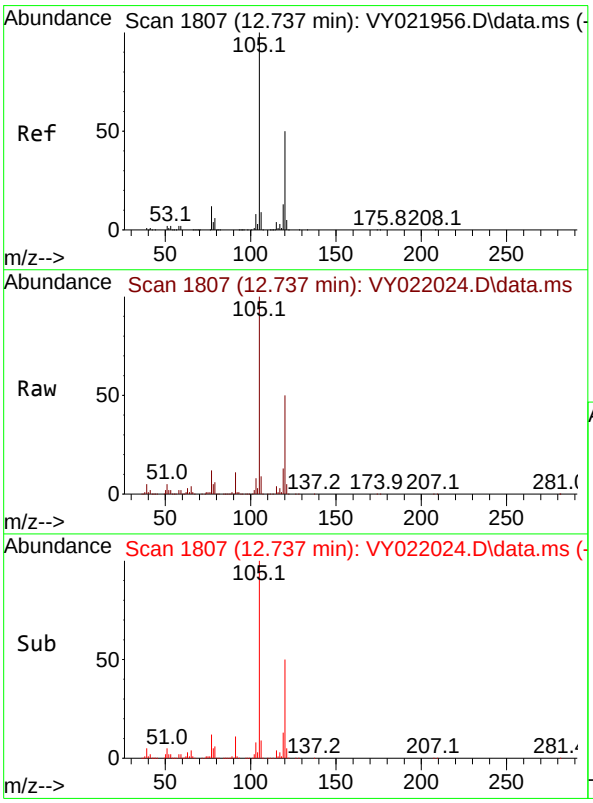
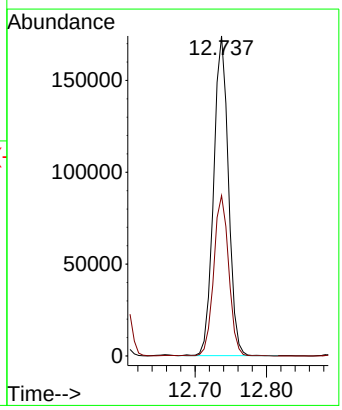
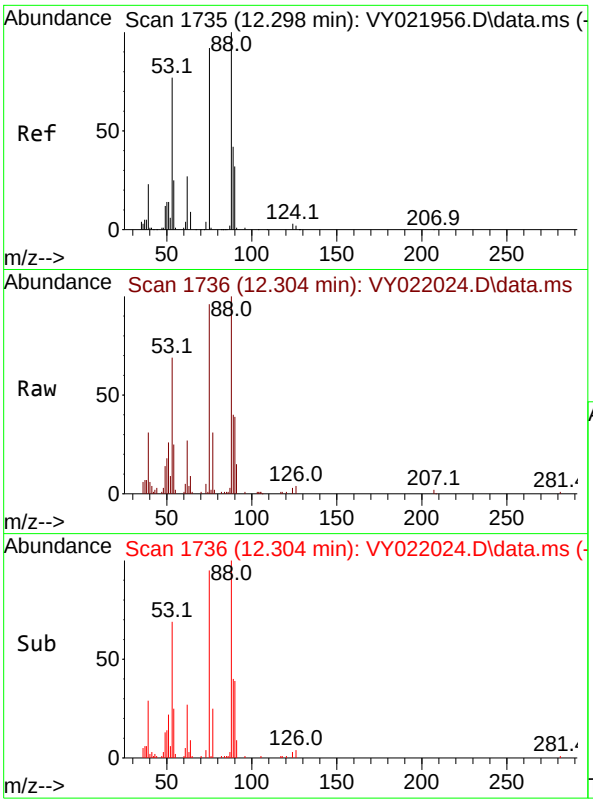


#80
1,3,5-Trimethylbenzene
Concen: 19.833 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:105 Resp: 249733

Ion	Ratio	Lower	Upper
105	100		
120	50.9	25.0	75.0

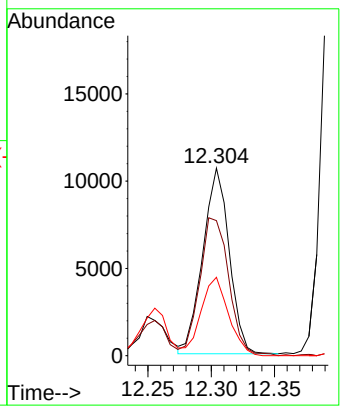




#81
trans-1,4-Dichloro-2-butene
Concen: 19.001 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 75 Resp: 1545

Ion	Ratio	Lower	Upper
75	100		
53	82.0	66.0	99.0
89	44.5	37.2	55.8



Instrument :
MSVOA_Y
ClientSampleId :
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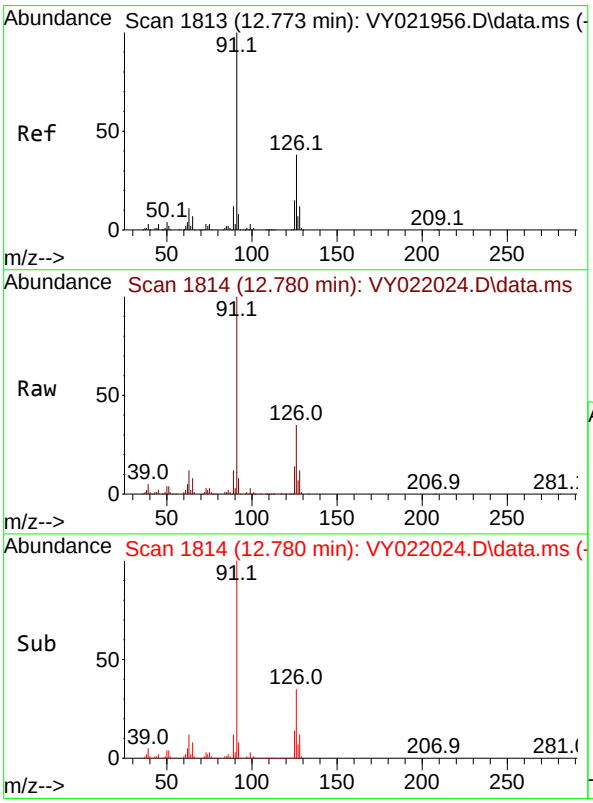
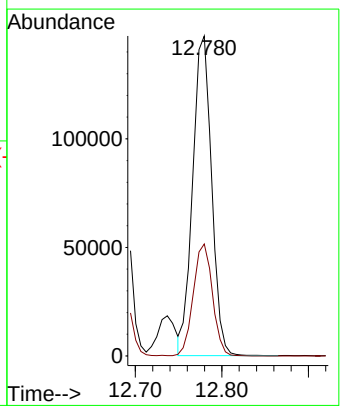
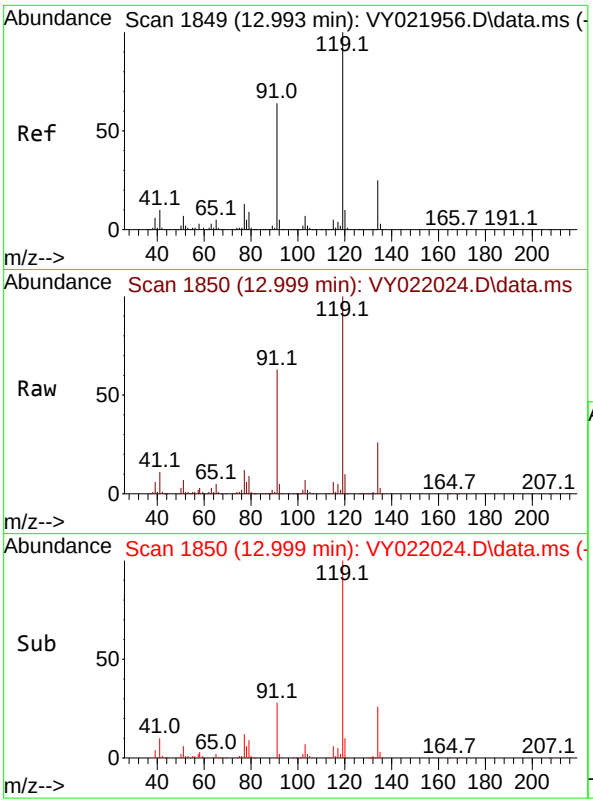


#82
4-Chlorotoluene
Concen: 20.280 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 91 Resp: 223135

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.9	53.8

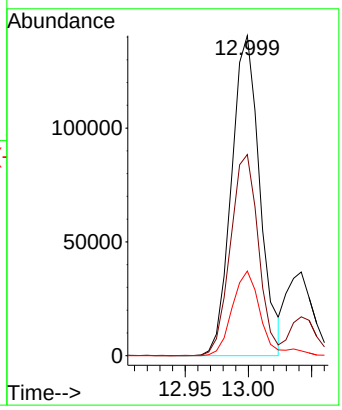




#83
tert-Butylbenzene
Concen: 19.424 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:119 Resp: 21935

Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.3	90.9
134	26.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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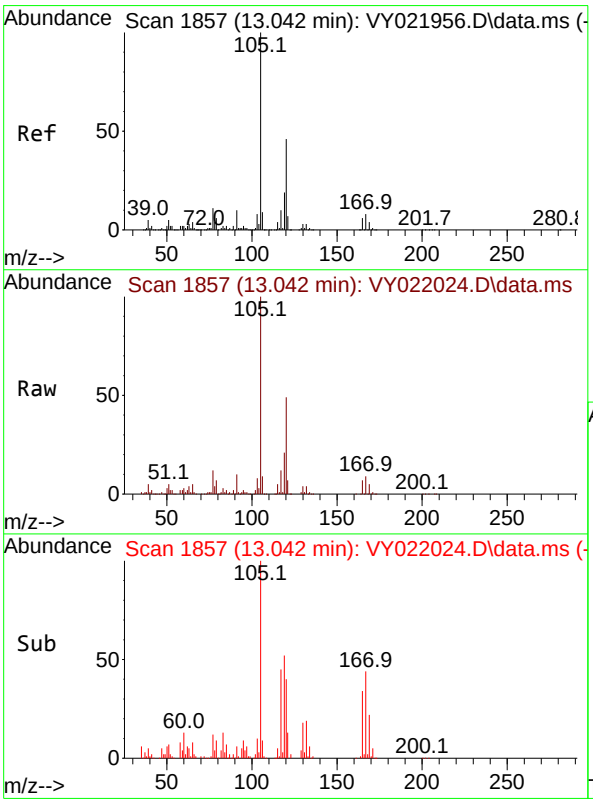
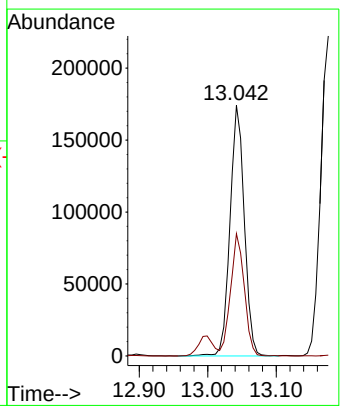
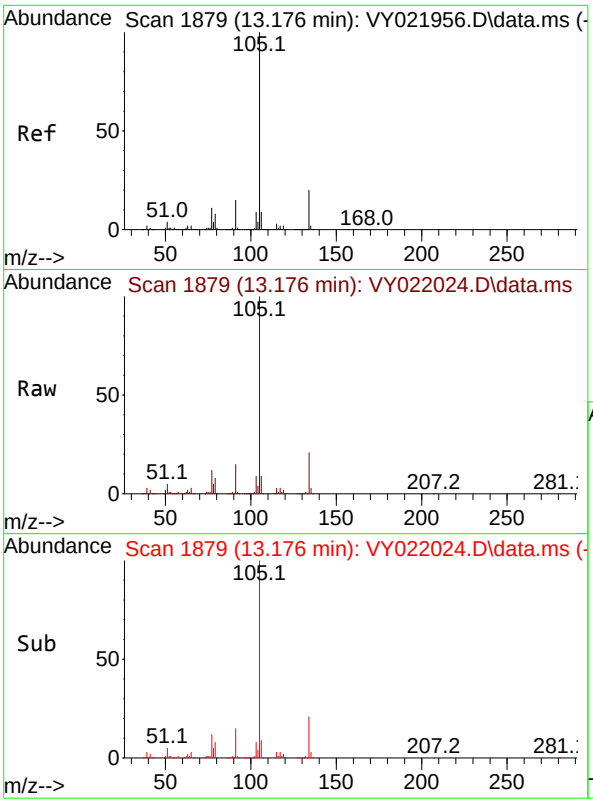


#84
1,2,4-Trimethylbenzene
Concen: 19.995 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:105 Resp: 251831

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.4	70.0

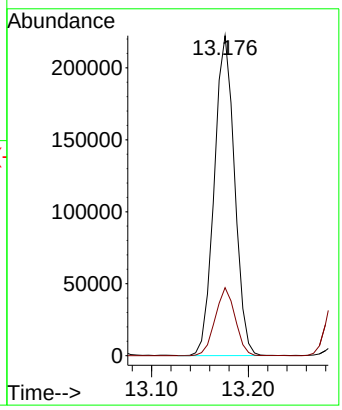




#85
sec-Butylbenzene
Concen: 19.608 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:105 Resp: 32401

Ion	Ratio	Lower	Upper
105	100		
134	20.9	10.3	30.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

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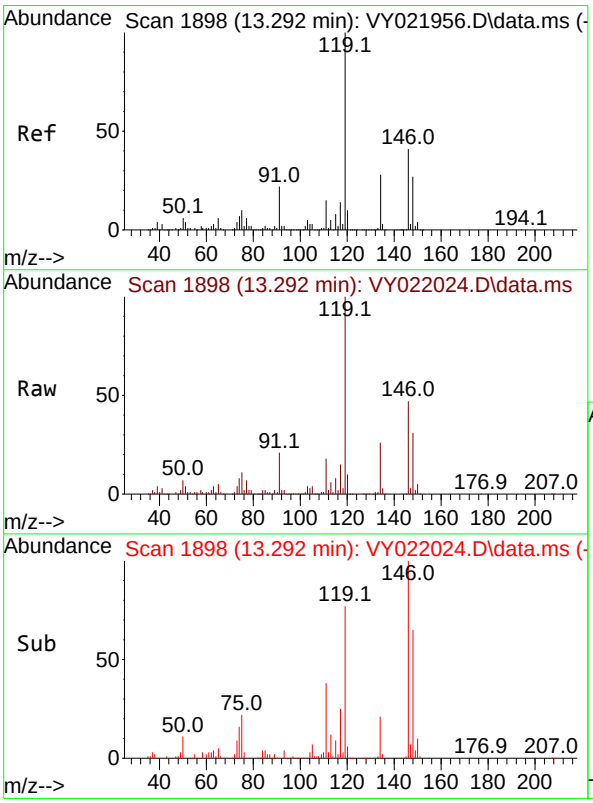
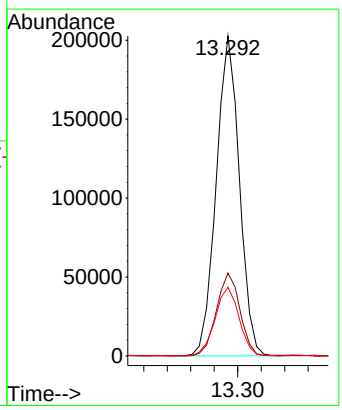
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

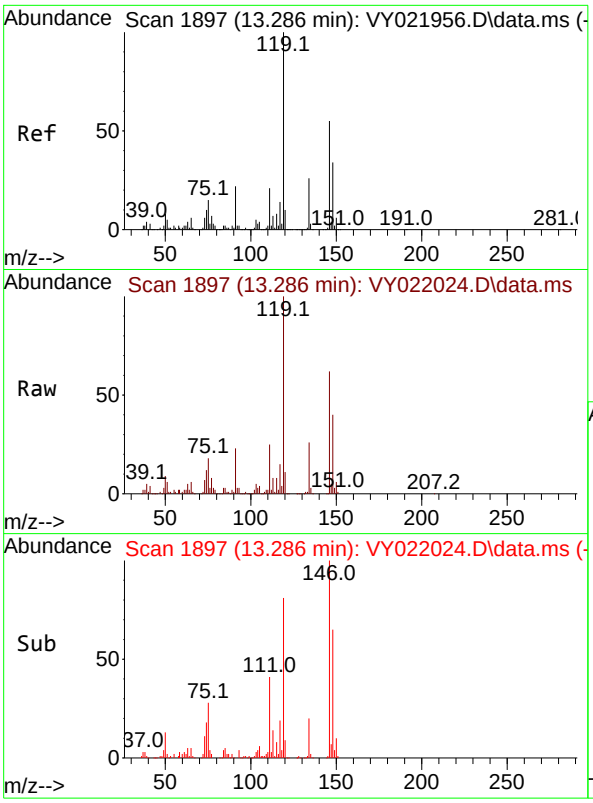


#86
p-Isopropyltoluene
Concen: 19.760 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:119 Resp: 277280

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.6	40.7
91	22.2	11.0	33.0

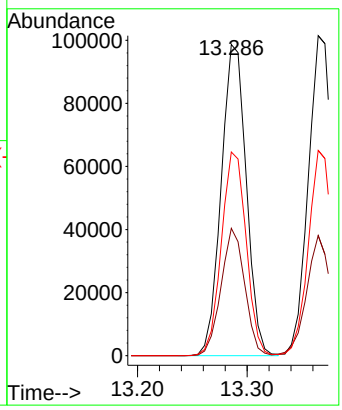




#87
1,3-Dichlorobenzene
Concen: 20.030 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:146 Resp: 15710

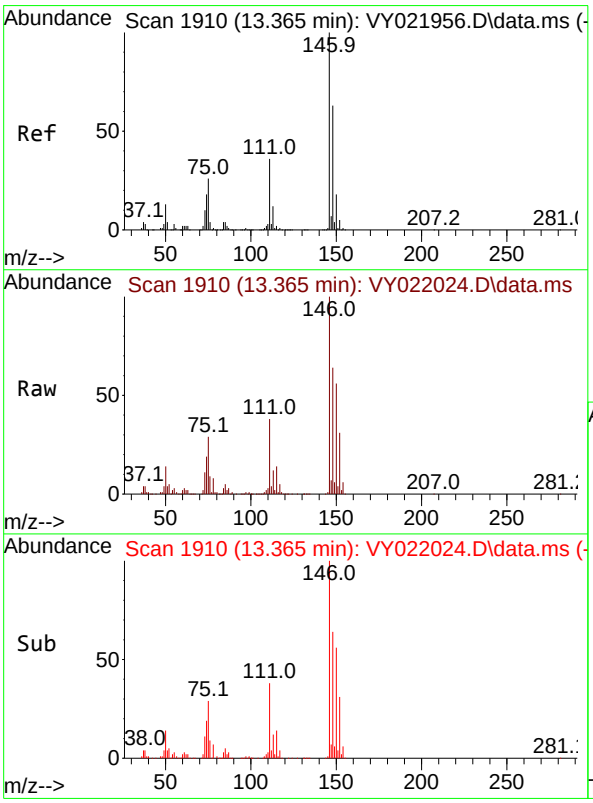
Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.5
148	64.7	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

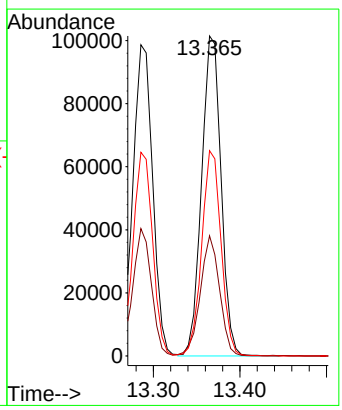
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

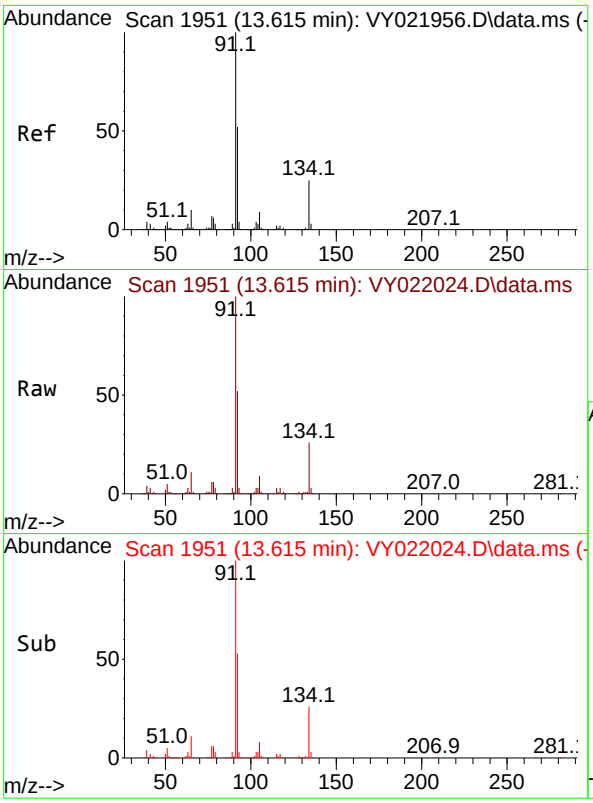


#88
1,4-Dichlorobenzene
Concen: 20.398 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:146 Resp: 158444

Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.2	57.6
148	63.8	32.0	96.0

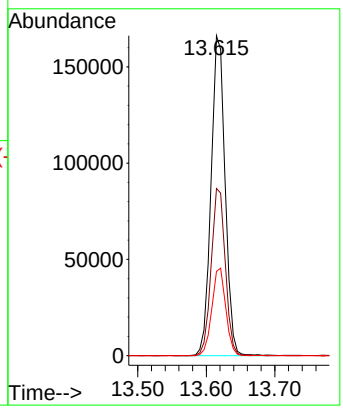




#89
n-Butylbenzene
Concen: 18.964 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 91 Resp: 23785

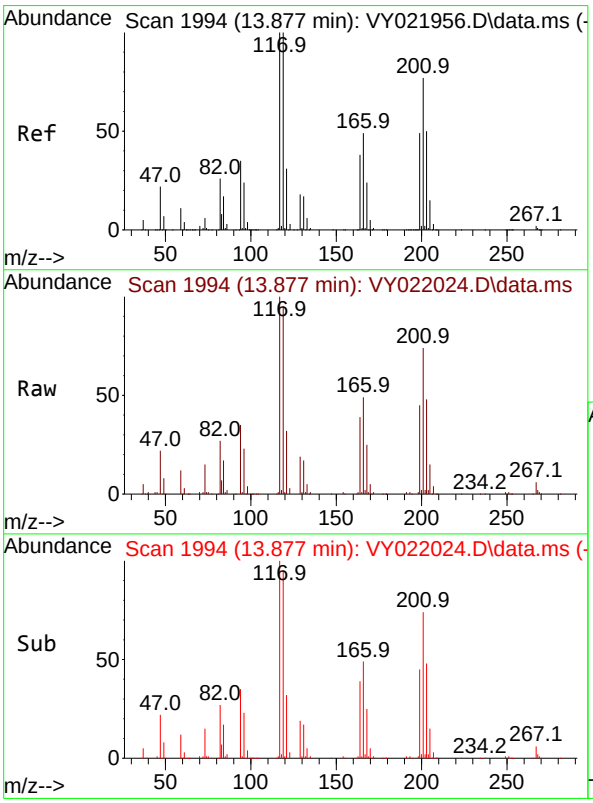
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.5	79.5
134	27.0	13.4	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

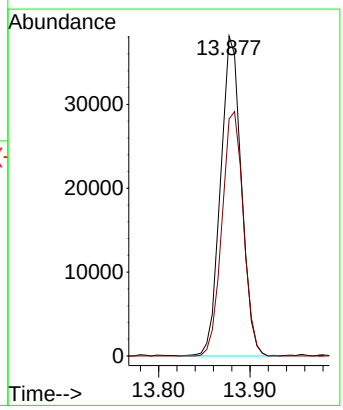
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

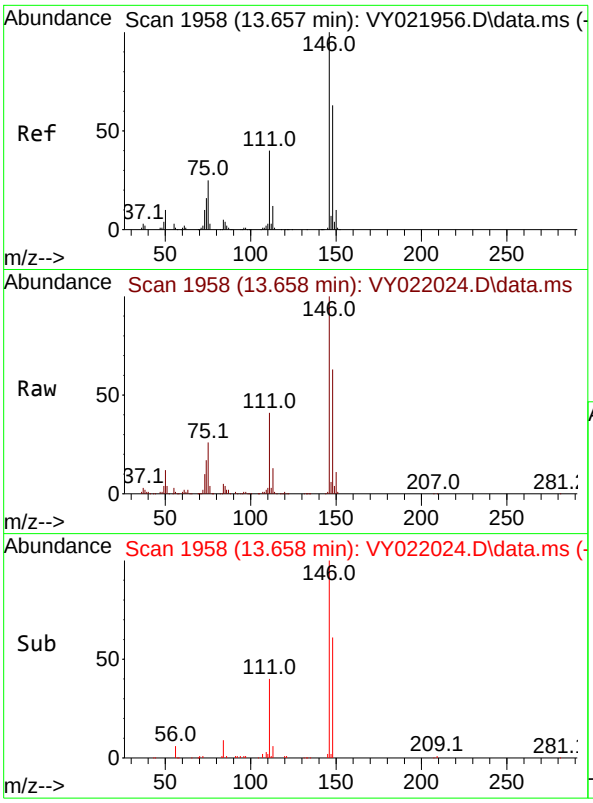


#90
Hexachloroethane
Concen: 19.609 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:117 Resp: 60454

Ion	Ratio	Lower	Upper
117	100		
201	78.6	38.7	116.1

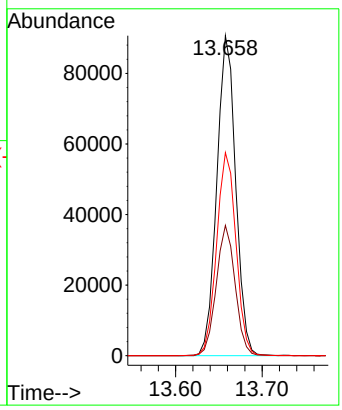




#91
1,2-Dichlorobenzene
Concen: 20.070 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:146 Resp: 13729

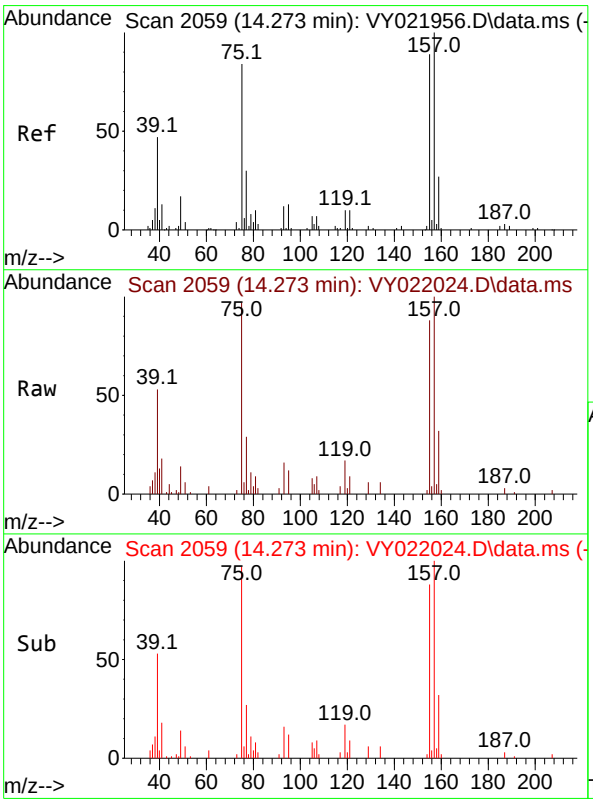
Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.7	59.1
148	65.2	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

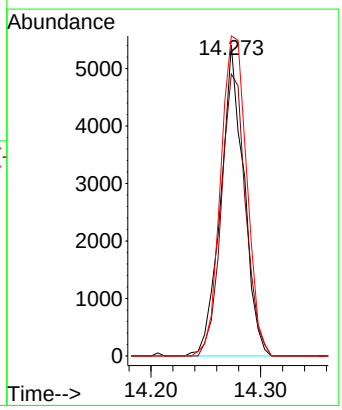
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

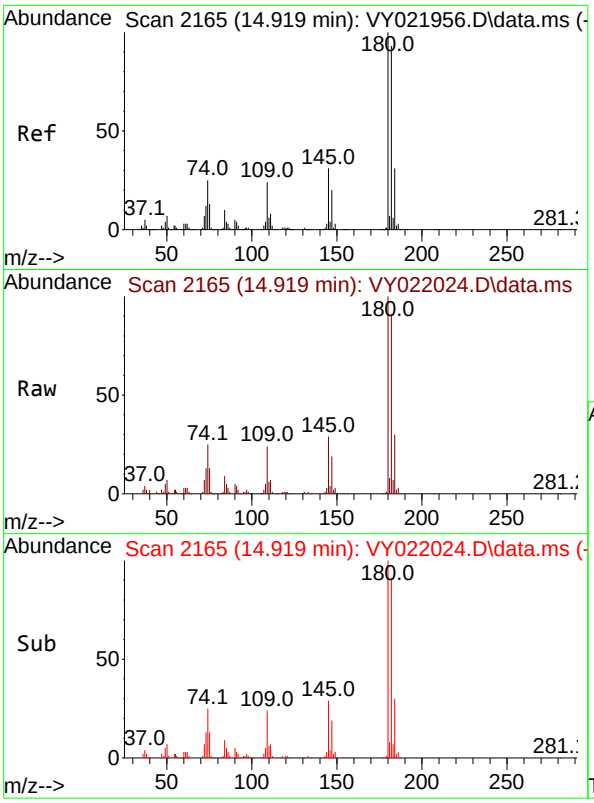


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.238 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion: 75 Resp: 7886

Ion	Ratio	Lower	Upper
75	100		
155	96.0	50.7	152.3
157	116.8	62.6	187.8

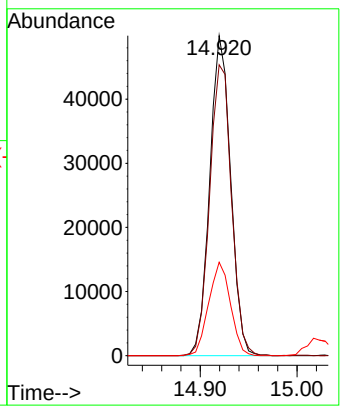




#93
1,2,4-Trichlorobenzene
Concen: 19.324 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:180 Resp: 7490

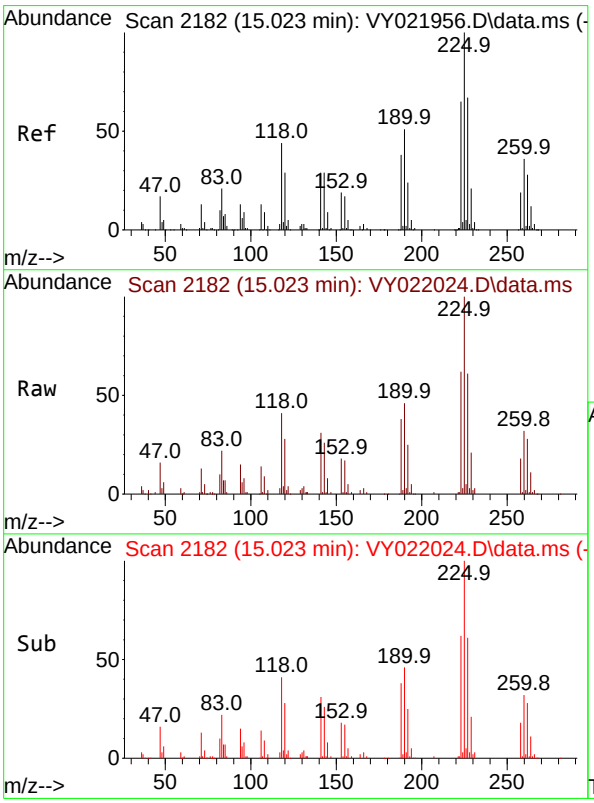
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.1	141.4
145	30.4	15.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

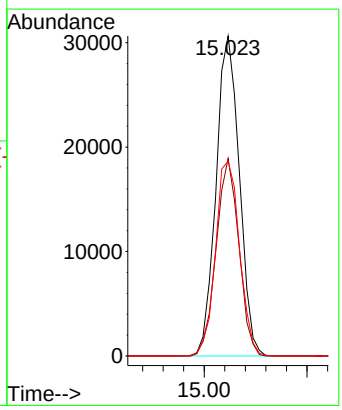
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025

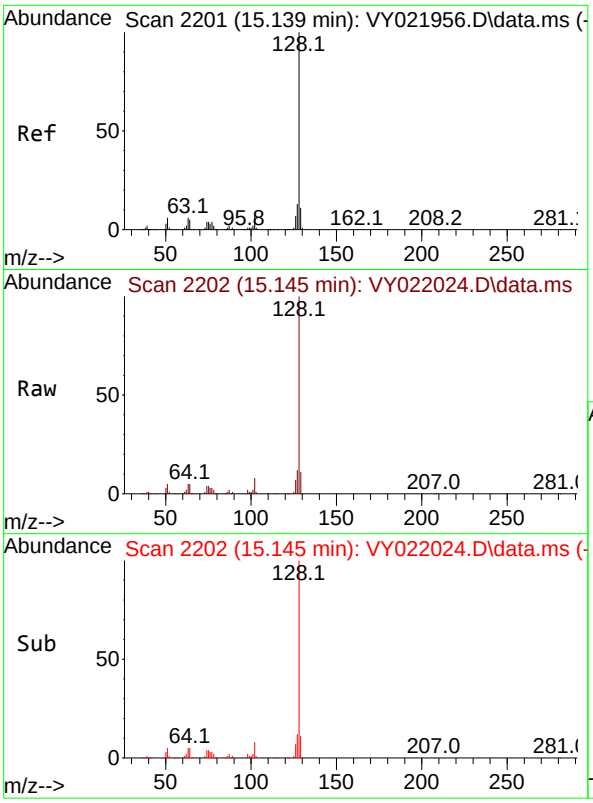


#94
Hexachlorobutadiene
Concen: 20.206 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:225 Resp: 48192

Ion	Ratio	Lower	Upper
225	100		
223	59.8	31.9	95.5
227	62.9	32.3	96.9

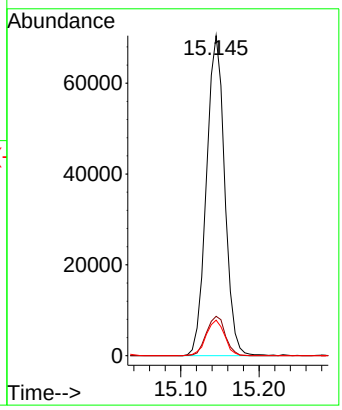




#95
Naphthalene
Concen: 17.671 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:128 Resp: 11379

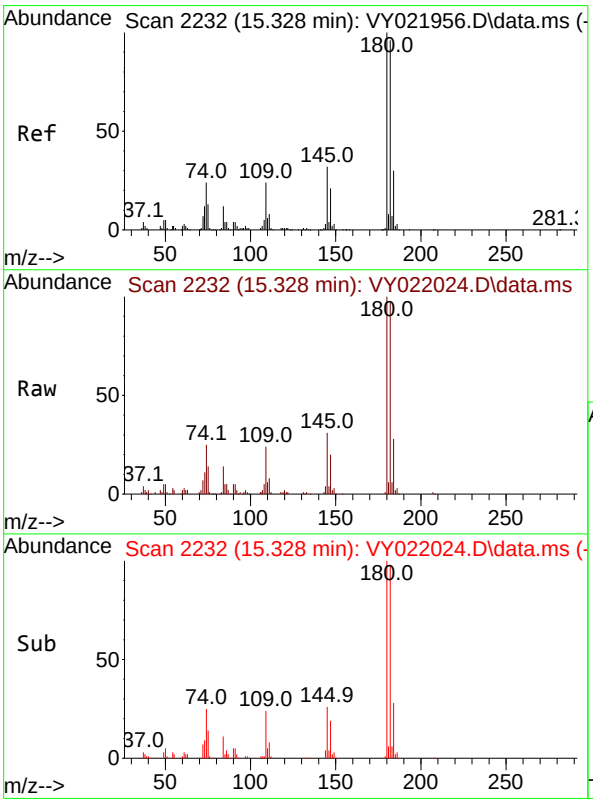
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	11.3	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0428SBSD01

Manual Integrations
APPROVED

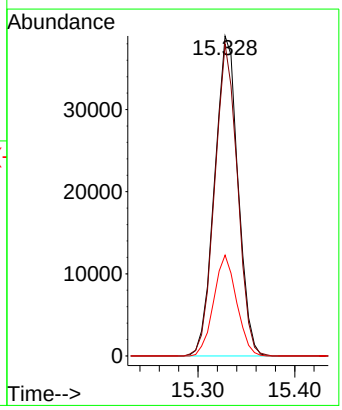
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/29/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.510 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022024.D
Acq: 28 Apr 2025 12:02

Tgt Ion:180 Resp: 65284

Ion	Ratio	Lower	Upper
180	100		
182	94.9	48.1	144.4
145	30.8	16.0	48.0



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

Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021953.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Ethyl Acetate	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Methacrylonitrile	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Tert butyl alcohol	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Ethyl Acetate	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Methacrylonitrile	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC020	VY021955.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICC020	VY021955.D	Methacrylonitrile	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICCC050	VY021956.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:53 AM	MMDadoda	4/23/2025 1:29:11 PM	Peak Integrated by Software
VSTDICC100	VY021957.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:56 AM	MMDadoda	4/23/2025 1:29:15 PM	Peak Integrated by Software
VSTDICC150	VY021958.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:57 AM	MMDadoda	4/23/2025 1:29:19 PM	Peak Integrated by Software
VSTDICV050	VY021960.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:59 AM	MMDadoda	4/23/2025 1:29:23 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	vy042825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022021.D	1,2,3-Trichloropropane	Sam	4/29/2025 12:17:54 PM	MMDadoda	4/29/2025 12:20:45 PM	Peak Integrated by Software
VY0428SBS01	VY022023.D	1,2,3-Trichloropropane	Sam	4/29/2025 12:17:55 PM	MMDadoda	4/29/2025 12:20:48 PM	Peak Integrated by Software
VY0428SBSD01	VY022024.D	1,2,3-Trichloropropane	Sam	4/29/2025 12:17:56 PM	MMDadoda	4/29/2025 12:20:46 PM	Peak Integrated by Software
VSTDCCC050	VY022044.D	1,2,3-Trichloropropane	Sam	4/29/2025 12:17:58 PM	MMDadoda	4/29/2025 12:20:52 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY042925	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022046.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:31 PM	MMDadoda	4/30/2025 2:25:41 PM	Peak Integrated by Software
VY0429SBS01	VY022048.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:33 PM	MMDadoda	4/30/2025 2:25:44 PM	Peak Integrated by Software
VY0429SBS01	VY022048.D	Methacrylonitrile	Sam	4/30/2025 2:22:33 PM	MMDadoda	4/30/2025 2:25:44 PM	Peak Integrated by Software
VSTDCCC050	VY022068.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:42 PM	MMDadoda	4/30/2025 2:25:57 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM				
Supervise By	Mahesh Dadoda	Supervise On	4/23/2025 1:28:52 PM				
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133718
Initial Calibration Stds	VP133719,VP133720,VP133721,VP133722,VP133723,VP133724
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133725
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021952.D	22 Apr 2025 11:33	SY/MD	Ok
2	VSTDICC005	VY021953.D	22 Apr 2025 13:39	SY/MD	Ok,M
3	VSTDICC010	VY021954.D	22 Apr 2025 14:44	SY/MD	Ok,M
4	VSTDICC020	VY021955.D	22 Apr 2025 15:07	SY/MD	Ok,M
5	VSTDICCC050	VY021956.D	22 Apr 2025 15:29	SY/MD	Ok,M
6	VSTDICC100	VY021957.D	22 Apr 2025 15:52	SY/MD	Ok,M
7	VSTDICC150	VY021958.D	22 Apr 2025 16:15	SY/MD	Ok,M
8	IBLK	VY021959.D	22 Apr 2025 16:38	SY/MD	Ok
9	VSTDICV050	VY021960.D	22 Apr 2025 17:01	SY/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042825

Review By	Semsettin Yesilyurt	Review On	4/29/2025 12:18:03 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/29/2025 12:21:04 PM				
SubDirectory	VY042825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133778
Initial Calibration Stds	
CCC	VP133779,VP133780
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	VY022020.D	28 Apr 2025 09:29	SY/MD	Ok
2	VSTDCCC050	VY022021.D	28 Apr 2025 09:59	SY/MD	Ok,M
3	VY0428SBL01	VY022022.D	28 Apr 2025 11:08	SY/MD	Ok
4	VY0428SBS01	VY022023.D	28 Apr 2025 11:40	SY/MD	Ok,M
5	VY0428SBSD01	VY022024.D	28 Apr 2025 12:02	SY/MD	Ok,M
6	Q1872-23	VY022025.D	28 Apr 2025 12:41	SY/MD	Dilution
7	IBLK	VY022026.D	28 Apr 2025 13:04	SY/MD	Ok
8	Q1872-23DL	VY022027.D	28 Apr 2025 13:31	SY/MD	ReRun
9	IBLK	VY022028.D	28 Apr 2025 13:55	SY/MD	Ok
10	Q1895-01	VY022029.D	28 Apr 2025 14:18	SY/MD	Ok
11	Q1895-03	VY022030.D	28 Apr 2025 14:41	SY/MD	Ok
12	Q1895-05	VY022031.D	28 Apr 2025 15:05	SY/MD	Ok
13	Q1889-01	VY022032.D	28 Apr 2025 15:28	SY/MD	Ok
14	Q1889-02	VY022033.D	28 Apr 2025 15:52	SY/MD	Ok
15	Q1889-03	VY022034.D	28 Apr 2025 16:15	SY/MD	Ok
16	Q1896-01	VY022035.D	28 Apr 2025 16:39	SY/MD	Ok
17	Q1891-03	VY022036.D	28 Apr 2025 17:02	SY/MD	Ok
18	Q1891-07	VY022037.D	28 Apr 2025 17:25	SY/MD	Ok
19	Q1900-03	VY022038.D	28 Apr 2025 17:49	SY/MD	Ok
20	Q1900-07	VY022039.D	28 Apr 2025 18:12	SY/MD	Ok
21	Q1900-11	VY022040.D	28 Apr 2025 18:36	SY/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042825

Review By	Semsettin Yesilyurt	Review On	4/29/2025 12:18:03 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/29/2025 12:21:04 PM				
SubDirectory	VY042825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133778
Initial Calibration Stds	
CCC	VP133779,VP133780
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1875-01	VY022041.D	28 Apr 2025 18:59	SY/MD	Ok
23	Q1902-01	VY022042.D	28 Apr 2025 19:23	SY/MD	ReRun
24	Q1904-01	VY022043.D	28 Apr 2025 19:46	SY/MD	Ok
25	VSTDCCC050	VY022044.D	28 Apr 2025 20:09	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 # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:26:05 PM				
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133781
Initial Calibration Stds	
CCC	VP133782,VP133783
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	VY022045.D	29 Apr 2025 08:20	SY/MD	Ok
2	VSTDCCC050	VY022046.D	29 Apr 2025 09:28	SY/MD	Ok,M
3	VY0429SBL01	VY022047.D	29 Apr 2025 10:00	SY/MD	Ok
4	VY0429SBS01	VY022048.D	29 Apr 2025 10:31	SY/MD	Ok,M
5	VY0429SBSD01	VY022049.D	29 Apr 2025 10:53	SY/MD	Ok,M
6	IBLK	VY022050.D	29 Apr 2025 11:56	SY/MD	Ok
7	Q1872-23DL	VY022051.D	29 Apr 2025 12:22	SY/MD	Ok
8	Q1902-01RE	VY022052.D	29 Apr 2025 13:09	SY/MD	Confirms
9	Q1892-03	VY022053.D	29 Apr 2025 13:55	SY/MD	Ok
10	Q1892-07	VY022054.D	29 Apr 2025 14:19	SY/MD	Ok
11	Q1892-11	VY022055.D	29 Apr 2025 14:43	SY/MD	Ok
12	Q1906-03	VY022056.D	29 Apr 2025 15:06	SY/MD	Ok
13	Q1906-07	VY022057.D	29 Apr 2025 15:30	SY/MD	Ok
14	Q1906-11	VY022058.D	29 Apr 2025 15:53	SY/MD	Ok
15	Q1906-15	VY022059.D	29 Apr 2025 16:16	SY/MD	Ok
16	Q1905-03	VY022060.D	29 Apr 2025 16:40	SY/MD	Ok
17	Q1903-01	VY022061.D	29 Apr 2025 17:03	SY/MD	Ok
18	Q1903-02	VY022062.D	29 Apr 2025 17:27	SY/MD	Ok
19	Q1903-03	VY022063.D	29 Apr 2025 17:50	SY/MD	Ok
20	Q1883-01	VY022064.D	29 Apr 2025 18:14	SY/MD	Ok
21	Q1883-03	VY022065.D	29 Apr 2025 18:37	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM				
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:26:05 PM				
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133781
Initial Calibration Stds	
CCC	VP133782,VP133783
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	IBLK	VY022066.D	29 Apr 2025 19:00	SY/MD	Ok,M
23	IBLK	VY022067.D	29 Apr 2025 19:23	SY/MD	Ok,M
24	VSTDCCC050	VY022068.D	29 Apr 2025 19:45	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/23/2025 1:28:52 PM		
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133718
Initial Calibration Stds	VP133719,VP133720,VP133721,VP133722,VP133723,VP133724
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133725
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021952.D	22 Apr 2025 11:33		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021953.D	22 Apr 2025 13:39		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021954.D	22 Apr 2025 14:44	Com.#16 is on Linear Regression	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021955.D	22 Apr 2025 15:07		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021956.D	22 Apr 2025 15:29		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021957.D	22 Apr 2025 15:52		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021958.D	22 Apr 2025 16:15		SY/MD	Ok,M
8	IBLK	IBLK	VY021959.D	22 Apr 2025 16:38		SY/MD	Ok
9	VSTDICV050	ICVVY042225	VY021960.D	22 Apr 2025 17:01		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042825

Review By	Semsettin Yesilyurt	Review On	4/29/2025 12:18:03 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/29/2025 12:21:04 PM		
SubDirectory	VY042825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133778
Initial Calibration Stds	
CCC	VP133779,VP133780
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	VY022020.D	28 Apr 2025 09:29		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022021.D	28 Apr 2025 09:59	CCC Failed Low For Com.#13	SY/MD	Ok,M
3	VY0428SBL01	VY0428SBL01	VY022022.D	28 Apr 2025 11:08		SY/MD	Ok
4	VY0428SBS01	VY0428SBS01	VY022023.D	28 Apr 2025 11:40		SY/MD	Ok,M
5	VY0428SBSD01	VY0428SBSD01	VY022024.D	28 Apr 2025 12:02		SY/MD	Ok,M
6	Q1872-23	HW0425-PT-VOA-SOIL	VY022025.D	28 Apr 2025 12:41	NJDEP Soil PT-HW0425,Need 4x	SY/MD	Dilution
7	IBLK	IBLK	VY022026.D	28 Apr 2025 13:04		SY/MD	Ok
8	Q1872-23DL	HW0425-PT-VOA-SOIL	VY022027.D	28 Apr 2025 13:31	prep error	SY/MD	ReRun
9	IBLK	IBLK	VY022028.D	28 Apr 2025 13:55		SY/MD	Ok
10	Q1895-01	COMP-1	VY022029.D	28 Apr 2025 14:18	vial-A	SY/MD	Ok
11	Q1895-03	COMP-2	VY022030.D	28 Apr 2025 14:41	vial-A	SY/MD	Ok
12	Q1895-05	COMP-3	VY022031.D	28 Apr 2025 15:05	vial-A	SY/MD	Ok
13	Q1889-01	COMP-1	VY022032.D	28 Apr 2025 15:28	vial-A	SY/MD	Ok
14	Q1889-02	COMP-2	VY022033.D	28 Apr 2025 15:52	vial-A	SY/MD	Ok
15	Q1889-03	COMP-3	VY022034.D	28 Apr 2025 16:15	vial-A	SY/MD	Ok
16	Q1896-01	295-BERGEN-RO	VY022035.D	28 Apr 2025 16:39	vial-A	SY/MD	Ok
17	Q1891-03	MH-C-VOC	VY022036.D	28 Apr 2025 17:02	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042825

Review By	Semsettin Yesilyurt	Review On	4/29/2025 12:18:03 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/29/2025 12:21:04 PM		
SubDirectory	VY042825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133778
Initial Calibration Stds	
CCC	VP133779,VP133780
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1891-07	MH-D-VOC	VY022037.D	28 Apr 2025 17:25	vial-A	SY/MD	Ok
19	Q1900-03	WC-1-VOC	VY022038.D	28 Apr 2025 17:49	vial-A	SY/MD	Ok
20	Q1900-07	WC-2-VOC	VY022039.D	28 Apr 2025 18:12	vial-A	SY/MD	Ok
21	Q1900-11	WC-3-VOC	VY022040.D	28 Apr 2025 18:36	vial-A	SY/MD	Ok
22	Q1875-01	AUD-25-0053	VY022041.D	28 Apr 2025 18:59	vial-A	SY/MD	Ok
23	Q1902-01	343	VY022042.D	28 Apr 2025 19:23	vial-A Internal Standard Fail	SY/MD	ReRun
24	Q1904-01	VNJ-210	VY022043.D	28 Apr 2025 19:46	vial-A	SY/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VY022044.D	28 Apr 2025 20:09		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:26:05 PM		
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133781
Initial Calibration Stds	
CCC	VP133782,VP133783
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	VY022045.D	29 Apr 2025 08:20		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022046.D	29 Apr 2025 09:28		SY/MD	Ok,M
3	VY0429SBL01	VY0429SBL01	VY022047.D	29 Apr 2025 10:00		SY/MD	Ok
4	VY0429SBS01	VY0429SBS01	VY022048.D	29 Apr 2025 10:31		SY/MD	Ok,M
5	VY0429SBSD01	VY0429SBSD01	VY022049.D	29 Apr 2025 10:53		SY/MD	Ok,M
6	IBLK	IBLK	VY022050.D	29 Apr 2025 11:56		SY/MD	Ok
7	Q1872-23DL	HW0425-PT-VOA-SOIL	VY022051.D	29 Apr 2025 12:22		SY/MD	Ok
8	Q1902-01RE	343RE	VY022052.D	29 Apr 2025 13:09	vial-B Internal Standard Fail	SY/MD	Confirms
9	Q1892-03	MH-G-VOC	VY022053.D	29 Apr 2025 13:55	vial-A	SY/MD	Ok
10	Q1892-07	MH-H-VOC	VY022054.D	29 Apr 2025 14:19	vial-A	SY/MD	Ok
11	Q1892-11	MH-U2-VOC	VY022055.D	29 Apr 2025 14:43	vial-A	SY/MD	Ok
12	Q1906-03	WC-4-VOC	VY022056.D	29 Apr 2025 15:06	vial-A	SY/MD	Ok
13	Q1906-07	WC-5-VOC	VY022057.D	29 Apr 2025 15:30	vial-A	SY/MD	Ok
14	Q1906-11	WC-6-VOC	VY022058.D	29 Apr 2025 15:53	vial-A	SY/MD	Ok
15	Q1906-15	WC-7-VOC	VY022059.D	29 Apr 2025 16:16	vial-A	SY/MD	Ok
16	Q1905-03	MH-G-VOC	VY022060.D	29 Apr 2025 16:40	vial-A	SY/MD	Ok
17	Q1903-01	COMP-4	VY022061.D	29 Apr 2025 17:03	vial-A	SY/MD	Ok
18	Q1903-02	COMP-5	VY022062.D	29 Apr 2025 17:27	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:26:05 PM		
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133781
Initial Calibration Stds	
CCC	VP133782,VP133783
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1903-03	COMP-6	VY022063.D	29 Apr 2025 17:50	vial-A	SY/MD	Ok
20	Q1883-01	OU4-PCS-TC-27-04232	VY022064.D	29 Apr 2025 18:14	vial-B	SY/MD	Ok
21	Q1883-03	OU4-PCS-TC-28-04232	VY022065.D	29 Apr 2025 18:37	vial-B	SY/MD	Ok
22	IBLK	IBLK	VY022066.D	29 Apr 2025 19:00		SY/MD	Ok,M
23	IBLK	IBLK	VY022067.D	29 Apr 2025 19:23		SY/MD	Ok,M
24	VSTDCCC050	VSTDCCC050EC	VY022068.D	29 Apr 2025 19:45		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135545

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
Q1869-01	MH-F	1	1.14	10.43	11.57	10.47	89.5	
Q1869-02	MH-F-EPH	2	1.18	9.96	11.14	10.12	89.8	
Q1869-03	MH-F-VOC	3	1.16	10.28	11.44	10.4	89.9	
Q1871-01	MH-A	4	1.14	9.59	10.73	9.86	90.9	
Q1871-02	MH-A-EPH	5	1.18	9.97	11.15	10.25	91.0	
Q1871-03	MH-A-VOC	6	1.15	10.22	11.37	10.47	91.2	
Q1871-05	MH-B	7	1.18	10.31	11.49	10.58	91.2	
Q1871-06	MH-B-EPH	8	1.16	9.63	10.79	10.05	92.3	
Q1871-07	MH-B-VOC	9	1.18	10.35	11.53	10.75	92.5	
Q1872-01	HW0425-PT-AN-SOIL	31	1.00	1.00	2.00	2.00	100.0	
Q1872-02	HW0425-PT-CORR-SOIL	32	1.00	1.00	2.00	2.00	100.0	
Q1872-03	HW0425-PT-CN-SOIL	33	1.00	1.00	2.00	2.00	100.0	
Q1872-04	HW0425-PT-CN-SOIL	34	1.00	1.00	2.00	2.00	100.0	
Q1872-05	HW0425-PT-FP-SOIL	35	1.00	1.00	2.00	2.00	100.0	
Q1872-06	HW0425-PT-CR6-SOIL	36	1.00	1.00	2.00	2.00	100.0	
Q1872-07	HW0425-PT-NUT-SOIL	37	1.00	1.00	2.00	2.00	100.0	
Q1872-08	HW0425-PT-NUT-SOIL	38	1.00	1.00	2.00	2.00	100.0	
Q1872-09	HW0425-PT-OGR-SOIL	39	1.00	1.00	2.00	2.00	100.0	
Q1872-10	HW0425-PT-MET-SOIL	40	1.00	1.00	2.00	2.00	100.0	
Q1872-11	HW0425-PT-BNA-SOIL	41	1.00	1.00	2.00	2.00	100.0	
Q1872-12	HW0425-PT-TRIAZINE-SOIL	42	1.00	1.00	2.00	2.00	100.0	
Q1872-13	HW0425-PT-PAH-SOIL	43	1.00	1.00	2.00	2.00	100.0	
Q1872-14	HW0425-PT-DIES-SOIL	44	1.00	1.00	2.00	2.00	100.0	
Q1872-15	HW0425-PT-GAS-SOIL	45	1.00	1.00	2.00	2.00	100.0	
Q1872-16	HW0425-PT-NJEPH-SOIL	46	1.00	1.00	2.00	2.00	100.0	
Q1872-17	HW0425-PT-HERB-SOIL	47	1.00	1.00	2.00	2.00	100.0	
Q1872-18	HW0425-PT-PCB-SOIL	48	1.00	1.00	2.00	2.00	100.0	
Q1872-19	HW0425-PT-PCBO-SOIL	49	1.00	1.00	2.00	2.00	100.0	

Alliance TECHNICAL GROUP

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135545

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
Q1872-20	HW0425-PT-PEST-SOIL	50	1.00	1.00	2.00	2.00	100.0	
Q1872-21	HW0425-PT-CHLR-SOIL	51	1.00	1.00	2.00	2.00	100.0	
Q1872-22	HW0425-PT-TXP-SOIL	52	1.00	1.00	2.00	2.00	100.0	
Q1872-23	HW0425-PT-VOA-SOIL	53	1.00	1.00	2.00	2.00	100.0	
Q1872-25	HW0425-PT-NO2-SOIL	54	1.00	1.00	2.00	2.00	100.0	
Q1873-01	CAM-40619	10	1.14	10.70	11.84	4.97	35.8	
Q1873-02	CAM-40620	11	1.15	10.42	11.57	6.19	48.4	
Q1873-03	CAM-40619-20	12	1.18	10.21	11.39	4.77	35.2	
Q1874-01	VNJ-236	13	1.19	10.45	11.64	10.89	92.8	
Q1874-03	RT1491	14	1.19	11.16	12.35	11.43	91.8	
Q1874-05	HT3727	15	1.16	10.63	11.79	11.06	93.1	
Q1875-01	AUD-25-0053	16	1.14	10.75	11.89	11.19	93.5	
Q1875-03	AUD-25-0054	17	1.14	10.02	11.16	10.52	93.6	
Q1875-04	AUD-25-0024	18	1.14	10.03	11.17	10.77	96.0	
Q1876-01	AUD-25-0058	19	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-02	AUD-25-0059	20	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-03	AUD-25-0060	21	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-04	AUD-25-0061	22	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-05	AUD-25-0062	23	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-06	AUD-25-0063	24	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-07	AUD-25-0064	25	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-08	AUD-25-0065	26	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-09	AUD-25-0066	27	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1877-01	AU-6-042425	55	1.14	10.25	11.39	10.72	93.5	
Q1877-02	AU-6-042425	28	1.14	10.21	11.35	10.54	92.1	
Q1878-01	TR-4-042425	29	1.14	10.17	11.31	11.2	98.9	
Q1878-02	TR-4-042425-E2	30	1.19	10.28	11.47	10.92	94.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135545

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

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

LB 135545

WorkList Name : %1-042425 **WorkList ID :** 189122 **Department :** Wet-Chemistry **Date :** 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1869-01	MH-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-02	MH-F-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-03	MH-F-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-01	MH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-02	MH-A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-03	MH-A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-05	MH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-06	MH-B-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-07	MH-B-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1872-01	HW0425-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1872-02	HW0425-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-03	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-04	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-05	HW0425-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-06	HW0425-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-08	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-09	HW0425-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-10	HW0425-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-11	HW0425-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-12	HW0425-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO

Date/Time 04/24/25 1530

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/24/25 1725

Raw Sample Received by:

Raw Sample Relinquished by:

Q1872-VOCMS Group1

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042425 **WorkList ID :** 189122 **Department :** Wet-Chemistry **Date :** 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-13	HW0425-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-14	HW0425-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-15	HW0425-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-16	HW0425-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-17	HW0425-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-18	HW0425-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-19	HW0425-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-20	HW0425-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-21	HW0425-PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-22	HW0425-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-23	HW0425-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-25	HW0425-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1873-01	CAM-40619	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-02	CAM-40620	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-03	CAM-40619-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1874-01	VNJ-236	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-03	RT1491	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-05	HT3727	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1875-01	AUD-25-0053	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-03	AUD-25-0054	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-04	AUD-25-0024	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30

Raw Sample Received by: JD WDC

Raw Sample Relinquished by: SH

Date/Time 04/24/25 17:25

Raw Sample Received by: SH

Raw Sample Relinquished by: JD WDC

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042425 **WorkList ID :** 189122 **Department :** Wet-Chemistry **Date :** 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1876-01	AUD-25-0058	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-02	AUD-25-0059	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-03	AUD-25-0060	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-04	AUD-25-0061	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-05	AUD-25-0062	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-06	AUD-25-0063	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-07	AUD-25-0064	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-08	AUD-25-0065	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-09	AUD-25-0066	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1877-01	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1877-02	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-01	TR-4-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-02	TR-4-042425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature] SM

Date/Time 04/24/25 17:25

Raw Sample Received by: [signature] SM

Raw Sample Relinquished by: [signature]

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Prep Standard - Chemical Standard Summary

Order ID : Q1872

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vy042825,vy042925,

Standard ID :
VP131767,VP131783,VP132035,VP132036,VP132098,VP133175,VP133544,VP133545,VP133758,VP133759,VP133778,VP133779,VP133780,VP133781,VP133782,VP133783,

Chemical ID :
V13391,V13466,V13706,V14154,V14289,V14431,V14435,V14501,V14502,V14523,V14524,V14613,V14614,V14615,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14804,V14805,V14842,V14915,V14916,V14917,V14918,W3112,

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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

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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

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	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

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	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

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

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133758	04/24/2025	05/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/07/2025

FROM 1.00000ml of V14915 + 1.00000ml of V14916 + 1.00000ml of V14917 + 1.00000ml of V14918 + 21.00000ml of V14615 = 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	VP133759	04/24/2025	05/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/07/2025

FROM 5.62500ml of V14615 + 9.37500ml of VP133758 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP133778	04/28/2025	04/29/2025	Amit Patel	None	None	Mahesh Dadoda 05/07/2025

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
773	50 PPB CCC, 8260-SOIL	VP133779	04/28/2025	04/29/2025	Amit Patel	None	None	Mahesh Dadoda 05/07/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133545 + 0.00250ml of VP133759 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP133780	04/28/2025	04/29/2025	Amit Patel	None	None	Mahesh Dadoda 05/07/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133545 + 0.00250ml of VP133759 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP133781	04/29/2025	04/30/2025	Amit Patel	None	None	Mahesh Dadoda 05/07/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP131767 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP133782	04/29/2025	04/30/2025	Amit Patel	None	None	Mahesh Dadoda 05/07/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133545 + 0.00250ml of VP133759 + 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	VP133783	04/29/2025	04/30/2025	Amit Patel	None	None	Mahesh Dadoda 05/07/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133545 + 0.00250ml of VP133759 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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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 #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

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	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

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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

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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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

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	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

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	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	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 #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	042325	05/23/2025	04/24/2025 / SAM	04/24/2025 / SAM	V14915

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	042325	05/23/2025	04/24/2025 / SAM	04/24/2025 / SAM	V14916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	042325	05/23/2025	04/24/2025 / SAM	04/24/2025 / SAM	V14917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	042325	05/23/2025	04/24/2025 / SAM	04/24/2025 / SAM	V14918

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

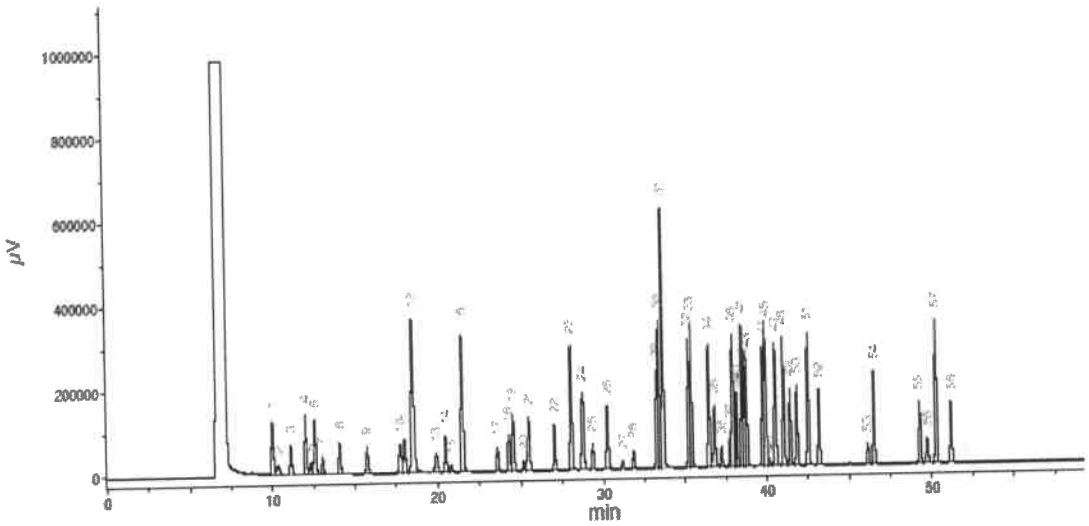
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 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	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.23
33	Styrene	35.30
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.02
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 04/24/25 5 N 104

ANAB ISO 17034 Accredited
AR-1539 Certificate Numbe
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 042325
Description: Acrolein

Expiration Date: 052325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 072324Q

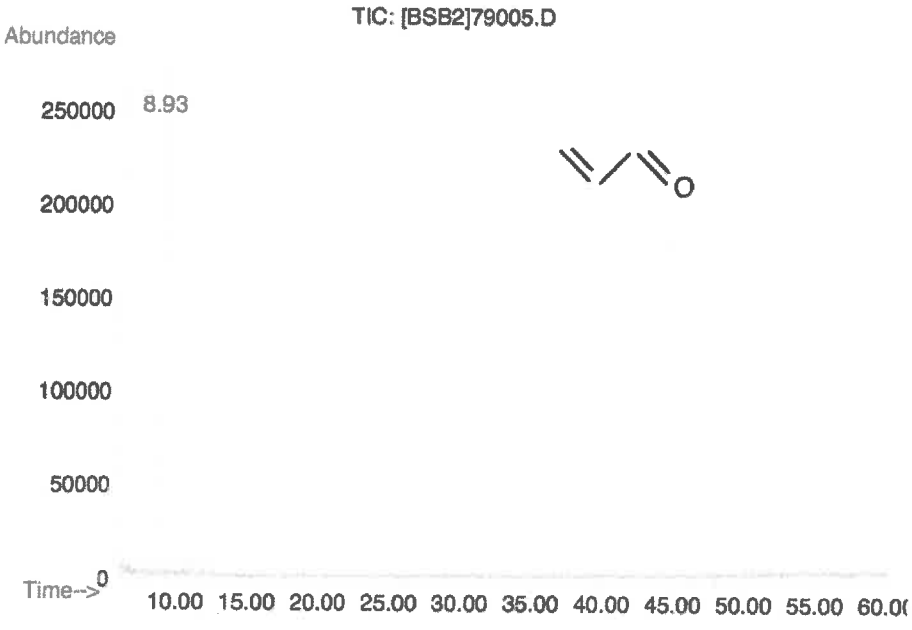
V14914 10
V14918

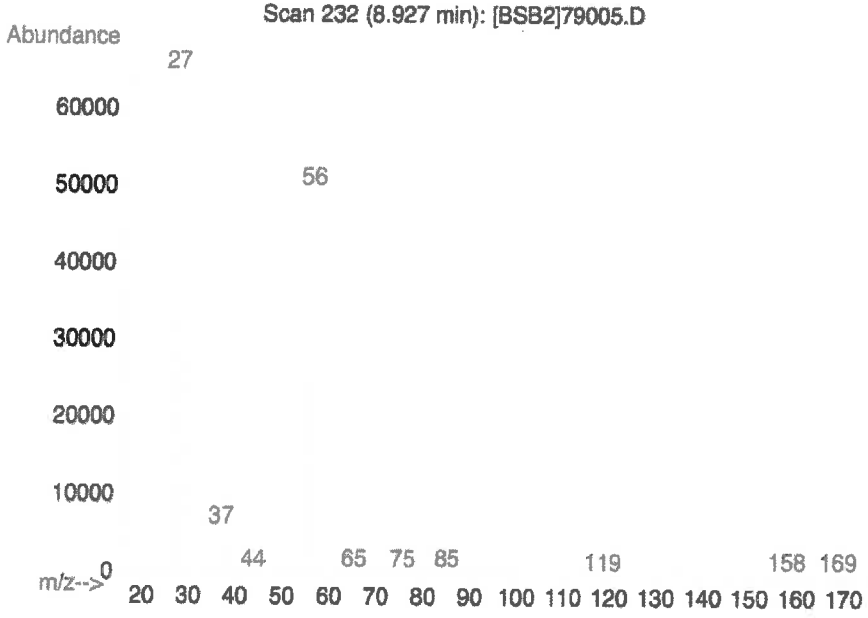
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	042325 DATE
Reviewed By:	Pedro L. Rentas	042325 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	0.05178	5011.8	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards Inc.

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.

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Certified Reference Material CRM

Rec 09/16/24 2 Vials

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

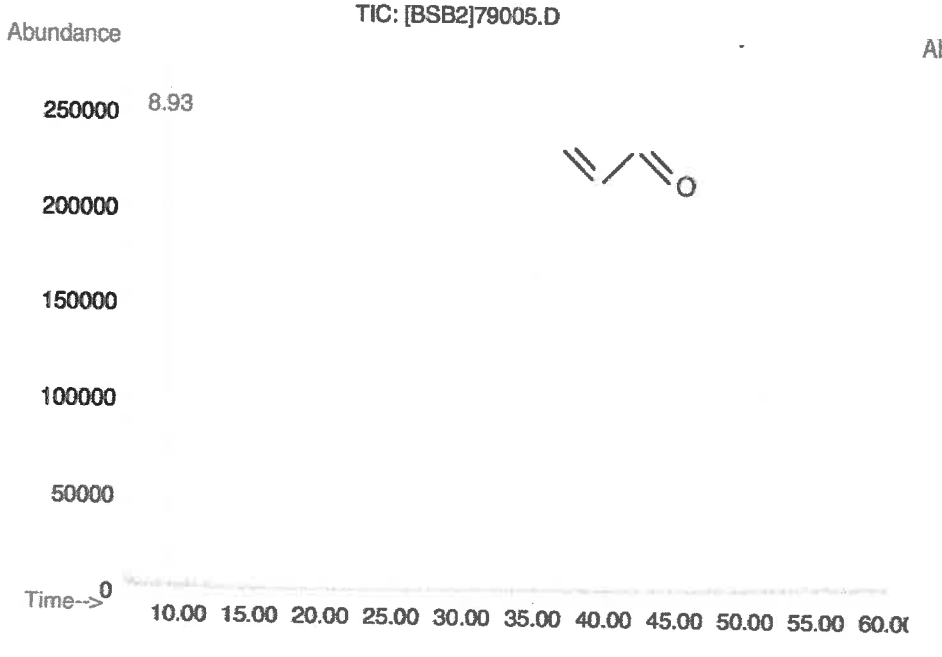
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

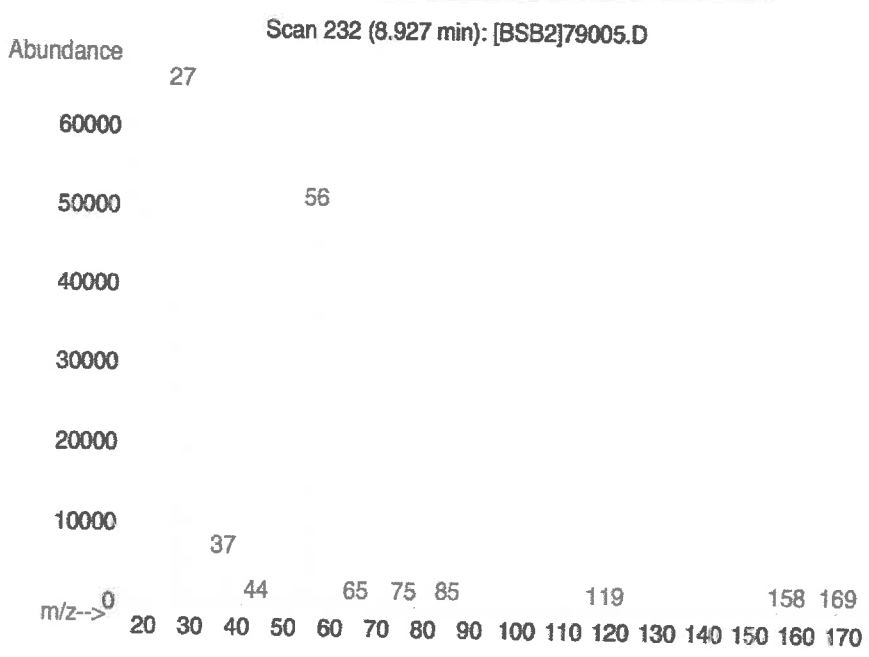
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- 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
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Certified Reference Material CRM

Rec 09/16/24 2 Vials

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

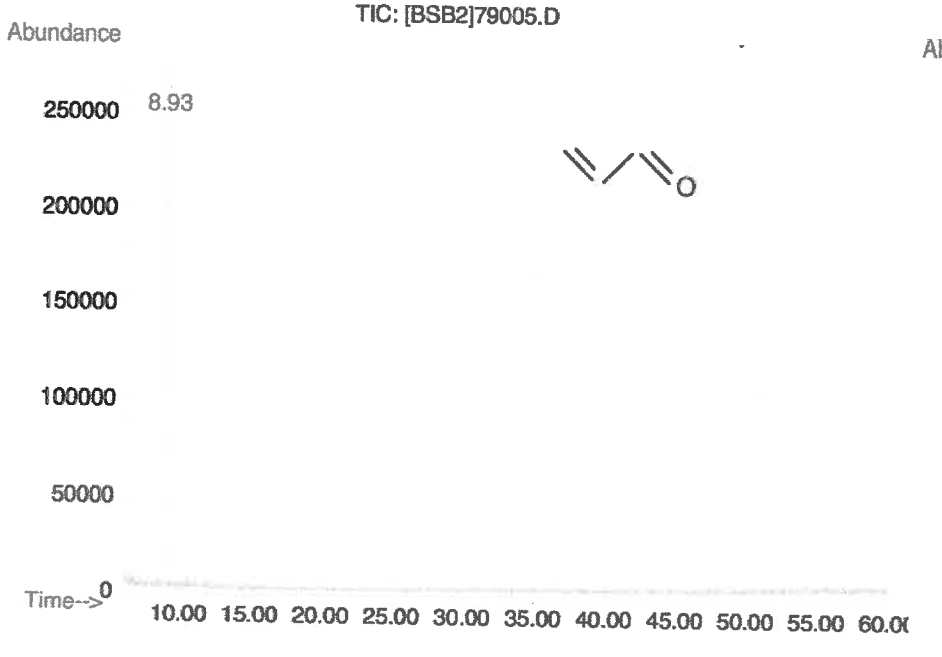
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

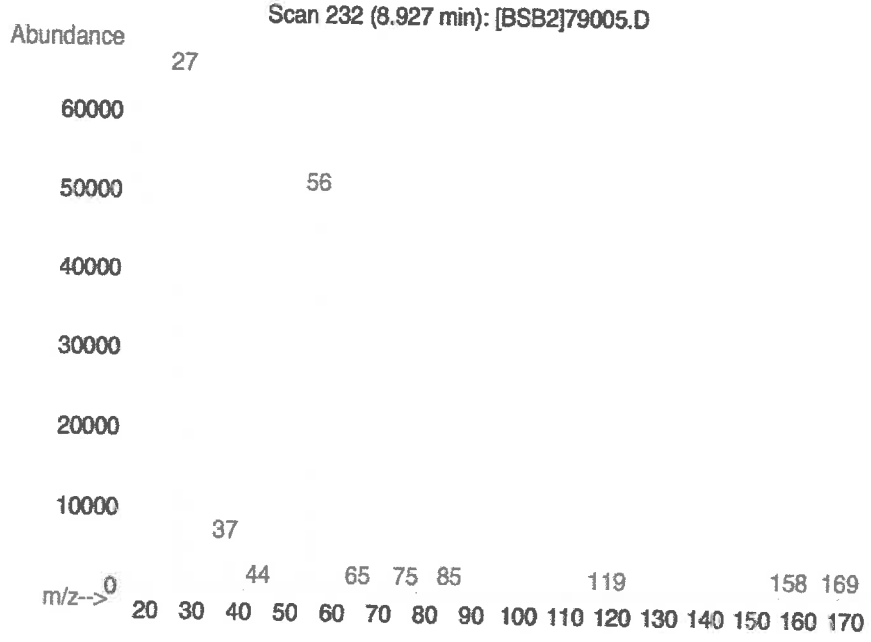
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certified Reference Material CRM

Dec 12/6/24
20 vial
V14630 to
V14649

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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

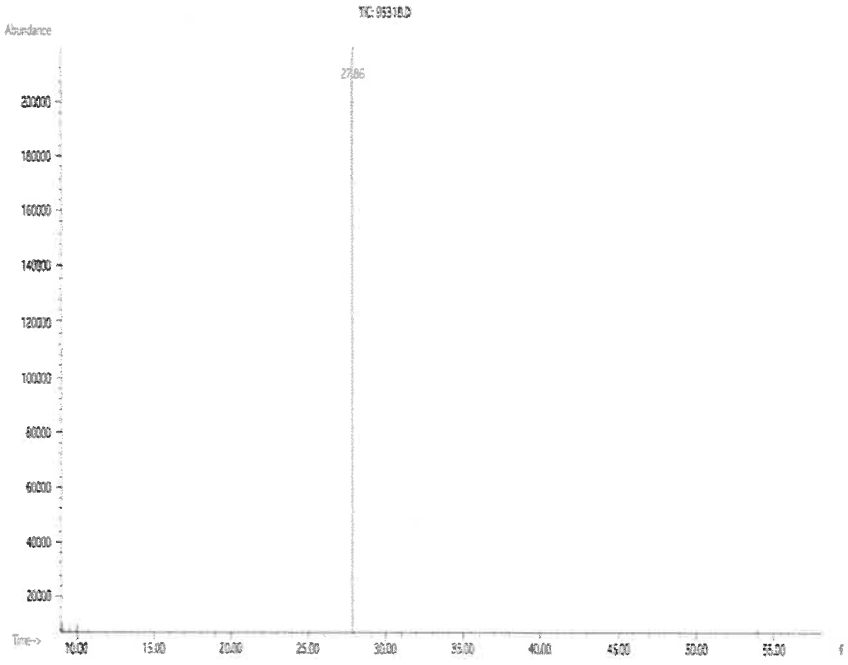
Solvent(s): Methanol **Lot#** EJ143-US

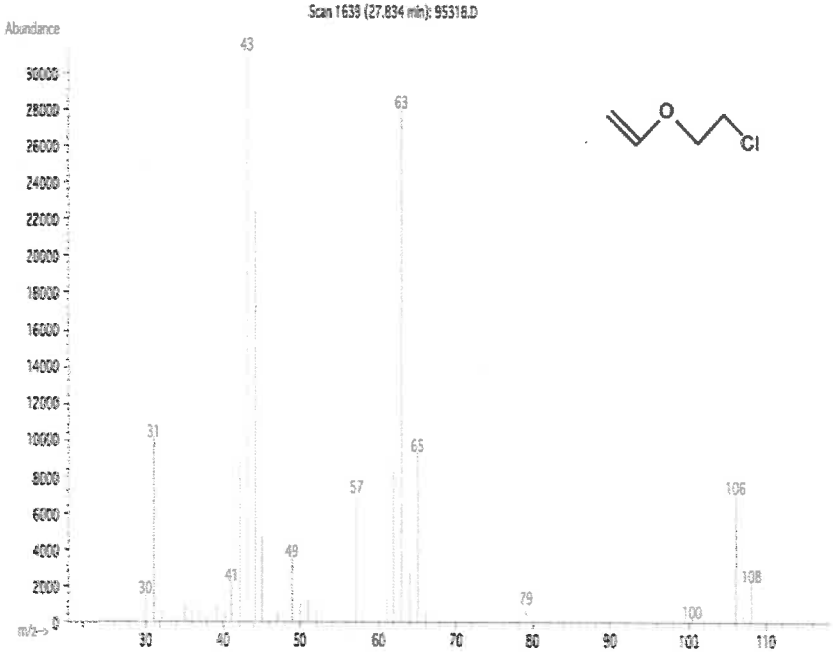
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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
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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

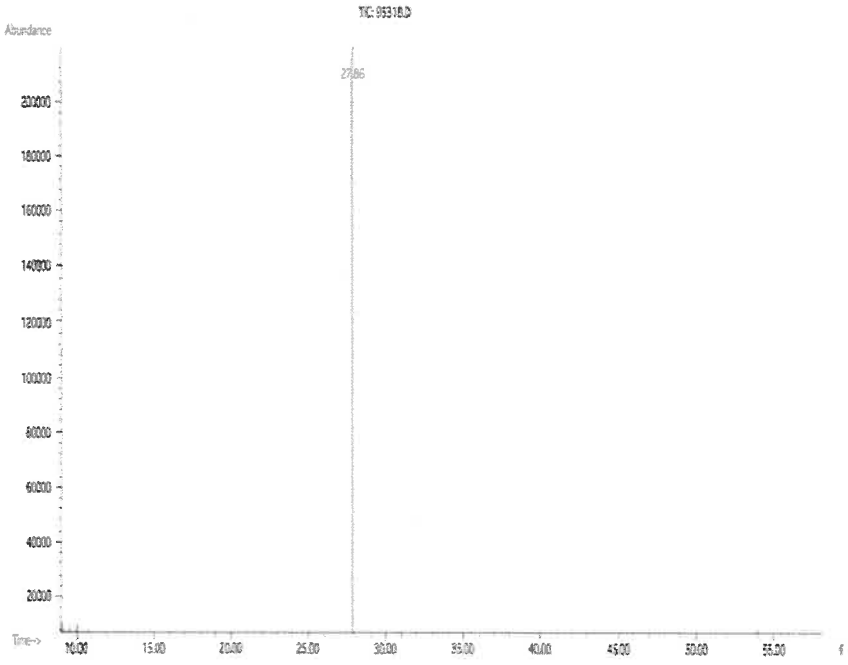
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

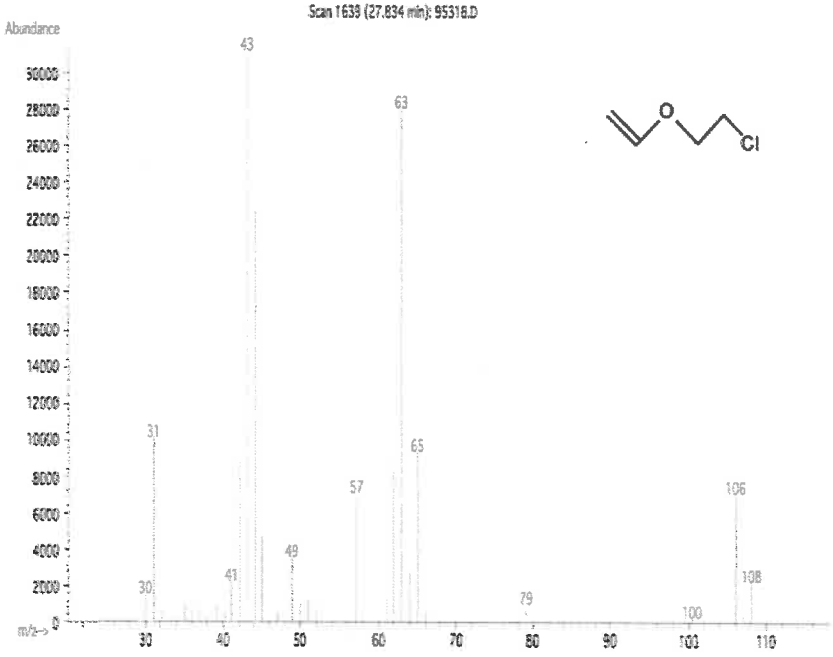
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

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

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INTENDED USE: REFERENCE MATERIAL

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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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

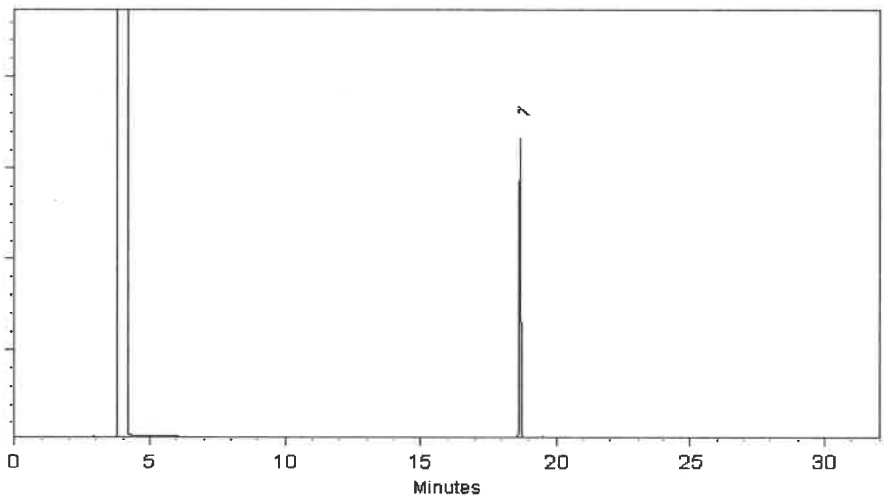
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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.)

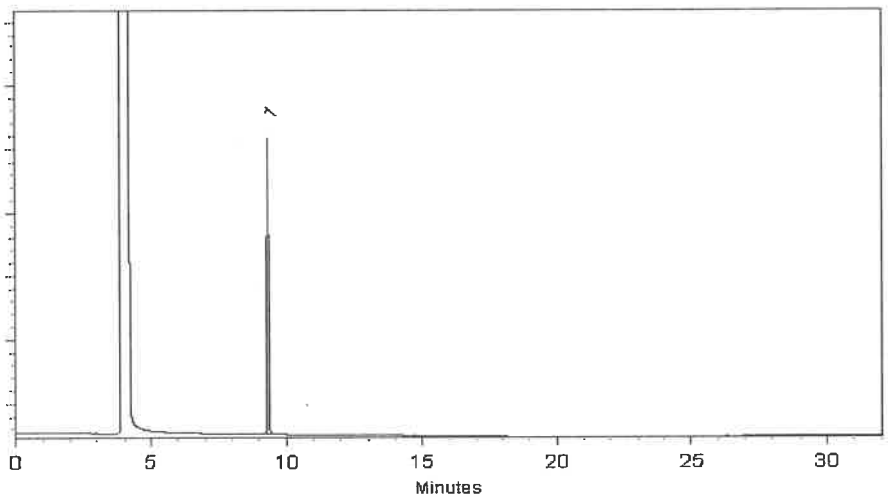
Inj. Temp:
200°C

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.
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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

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Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

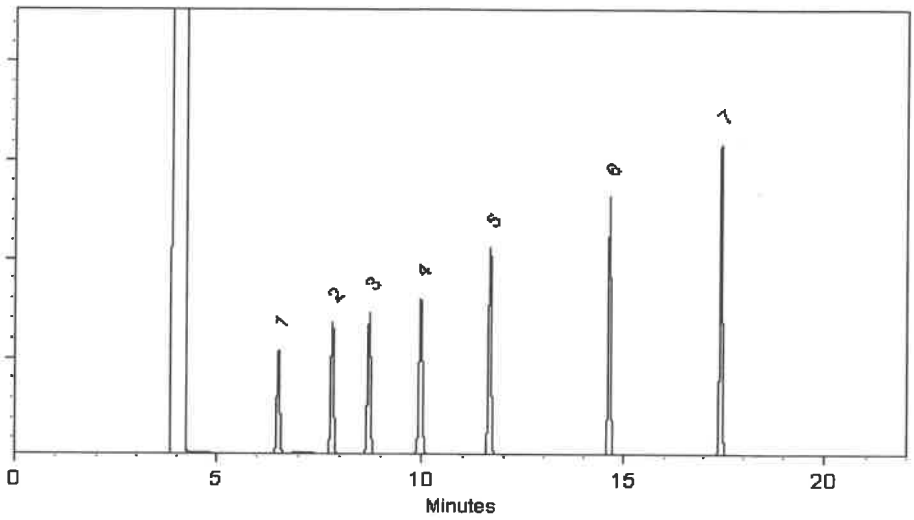
Inj. Temp:
200°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

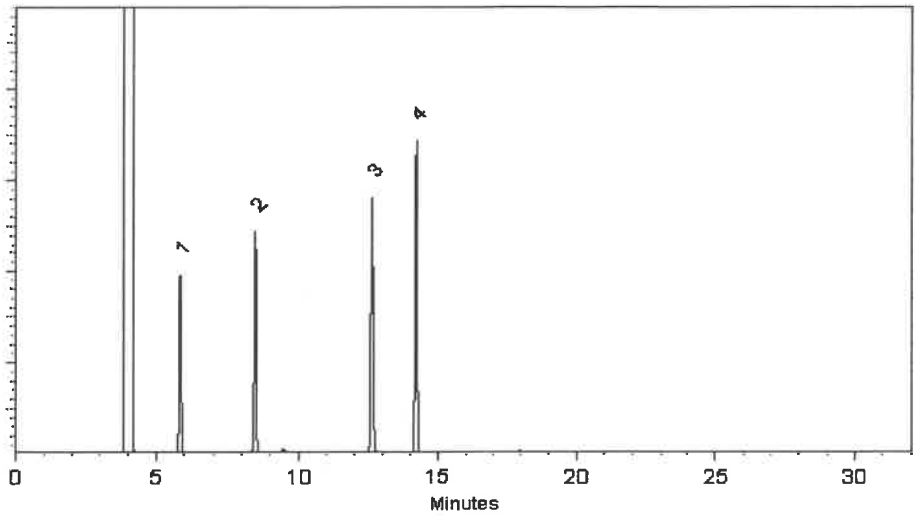
Inj. Temp:
200°C

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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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.

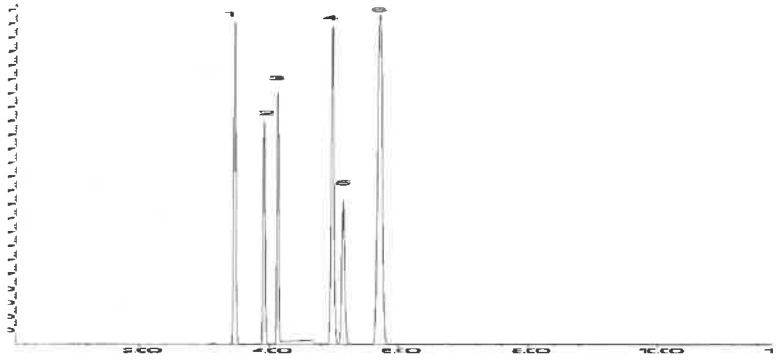
Inj. Temp:
200°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

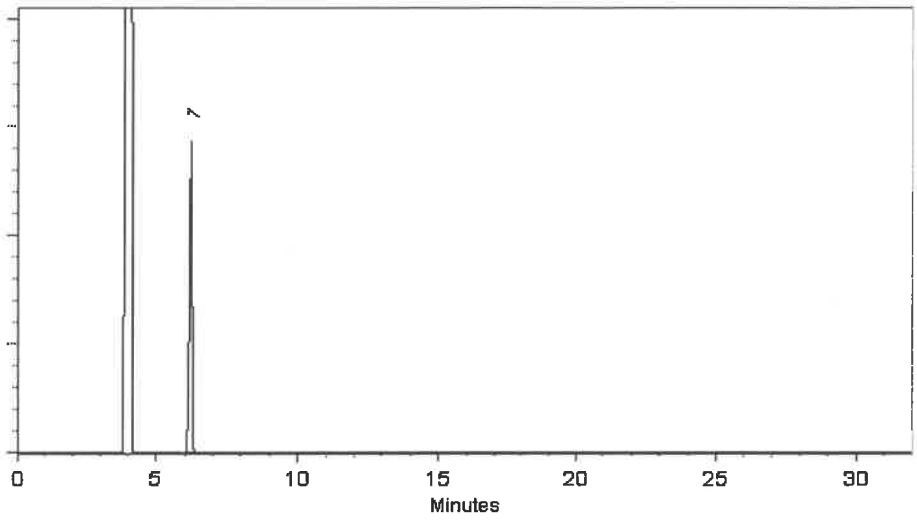
Inj. Temp:
200°C

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:

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Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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.)

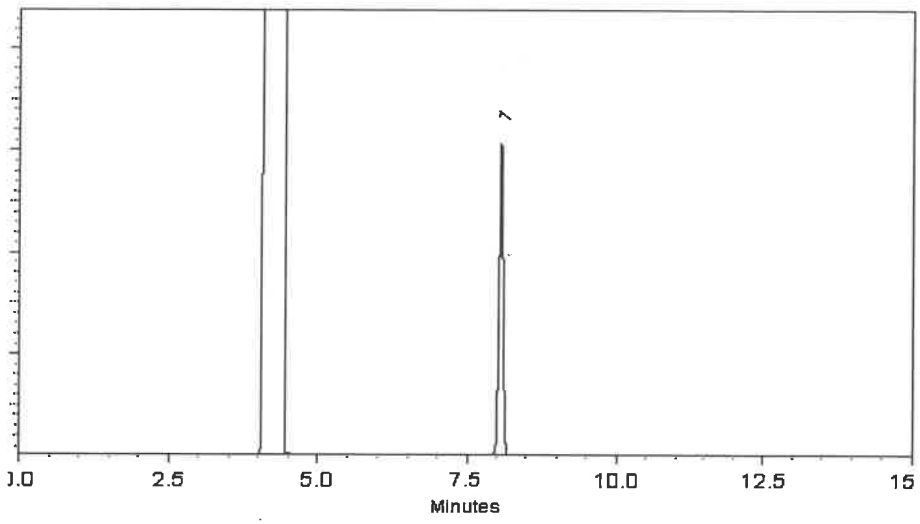
Inj. Temp:
200°C

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

SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
04/21/2025	333293

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received by: SJ
4/23/2025 15:50

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1668	Net 30	ZCM-100	1500470	FedEx Collect 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW0425	7100-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium	HW0425	7100-05B
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW0425	7100-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH	HW0425	7100-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW0425	7100-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions	HW0425	7100-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients	HW0425	7100-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW0425	7100-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW0425	7100-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW0425	7100-96
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease	HW0425	7100-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW0425	7100-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW0425	7100-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW0425	7100-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW0425	7100-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW0425	7100-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW0425	7100-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW0425	7100-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW0425	7100-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW0425	7100-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW0425	7100-106
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL	HW0425	7100-105

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Packing List

Date	Order #
04/25/2025	337220

6390 Joyce Dr., #100
Golden, CO 80403

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Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
4/28/2025 9:40

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
CPR	Net 30	ZCM-100	1500470	FedEx Next Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW0425	7100-100

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