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

Cover Page

Order ID : Q2639

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q2639-01	OU4-TS-38-071725
Q2639-02	OU4-TS-38-071725
Q2639-03	OU4-TS-39-071725
Q2639-04	OU4-TS-39-071725
Q2639-05	OU4-TS-40-071725
Q2639-06	OU4-TS-40-071725
Q2639-07	OU4-TS-41-071725
Q2639-08	OU4-TS-41-071725
Q2639-09	OU4-TS-42-071725
Q2639-10	OU4-TS-42-071725
Q2639-11	OU4-TS-43-071725
Q2639-12	OU4-TS-43-071725
Q2639-13	OU4-TS-44-071725
Q2639-14	OU4-TS-44-071725

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: 7/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q2639
Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:
7 Solid samples were received on 07/18/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

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 Group3 was based on method 8260D.

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

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

The %RSD is greater than 20% in the Initial Calibration method (82Y071825S.M) for Methylene chloride passing on linear regression.

The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
As per special requirement for this project form-1 are reported in mg/kg.
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.

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

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

Alliance has analyzed samples for VOCMS Group3 by Method 8260D for Project "Raymark Superfund Site". Alliance is not certified for trans-1,4-dichloro-2-butene and Tetrahydrofuran compounds with NJDEP for 8260D method. for VOCMS Group3 at the time when samples for Project "Raymark Superfund Site "were analyzed.

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

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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: Q2639 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 (82Y071825S.M) for Methylene chloride passing on Linear regression. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
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:

As per special requirement for this project form-1 are reported in mg/kg.

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

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

NA NO YES

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.

Alliance has analyzed samples for VOCMS Group3 by Method 8260D for Project "Raymark Superfund Site". Alliance is not certified for trans-1,4-dichloro-2-butene and Tetrahydrofuran compounds with NJDEP for 8260D method. for VOCMS Group3 at the time when samples for Project "Raymark Superfund Site "were analyzed.

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,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2639**

	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: **MAHESH PATEL** **Date:** **07/29/2025**

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

LAB CHRONICLE

OrderID:	Q2639	**OrderDate:**	7/18/2025 10:22:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	O13,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2639-01	**OU4-TS-38-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/18/25	
Q2639-03	**OU4-TS-39-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/18/25	
Q2639-05	**OU4-TS-40-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/18/25	
Q2639-07	**OU4-TS-41-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/21/25	
Q2639-09	**OU4-TS-42-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/21/25	
Q2639-11	**OU4-TS-43-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/21/25	
Q2639-13	**OU4-TS-44-071725**	**SOIL**			**07/17/25**			**07/18/25**
			VOCMS Group3	8260D			07/21/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q2639

Client: Nobis Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

QC
SUMMARY

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

Surrogate Summary

SDG No.: Q2639

Client: Nobis Group

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2639-01	OU4-TS-38-071725	1,2-Dichloroethane-d4	50	67.9	136		71	136
		Dibromofluoromethane	50	51.1	102		78	119
		Toluene-d8	50	48.5	97		85	116
		4-Bromofluorobenzene	50	54.6	109		79	119
Q2639-03	OU4-TS-39-071725	1,2-Dichloroethane-d4	50	67.4	135		71	136
		Dibromofluoromethane	50	50.8	102		78	119
		Toluene-d8	50	48.4	97		85	116
		4-Bromofluorobenzene	50	54.2	108		79	119
Q2639-05	OU4-TS-40-071725	1,2-Dichloroethane-d4	50	68.1	136		71	136
		Dibromofluoromethane	50	51.7	103		78	119
		Toluene-d8	50	48.6	97		85	116
		4-Bromofluorobenzene	50	54.1	108		79	119
Q2639-07	OU4-TS-41-071725	1,2-Dichloroethane-d4	50	59.0	118		71	136
		Dibromofluoromethane	50	49.4	99		78	119
		Toluene-d8	50	48.7	97		85	116
		4-Bromofluorobenzene	50	54.6	109		79	119
Q2639-09	OU4-TS-42-071725	1,2-Dichloroethane-d4	50	54.8	110		71	136
		Dibromofluoromethane	50	49.5	99		78	119
		Toluene-d8	50	48.1	96		85	116
		4-Bromofluorobenzene	50	51.1	102		79	119
Q2639-11	OU4-TS-43-071725	1,2-Dichloroethane-d4	50	62.4	125		71	136
		Dibromofluoromethane	50	51.0	102		78	119
		Toluene-d8	50	48.3	97		85	116
		4-Bromofluorobenzene	50	51.1	102		79	119
Q2639-13	OU4-TS-44-071725	1,2-Dichloroethane-d4	50	57.4	115		71	136
		Dibromofluoromethane	50	50.9	102		78	119
		Toluene-d8	50	48.4	97		85	116
		4-Bromofluorobenzene	50	49.3	99		79	119
VY0718SBL01	VY0718SBL01	1,2-Dichloroethane-d4	50	56.8	114		71	136
		Dibromofluoromethane	50	48.5	97		78	119
		Toluene-d8	50	46.1	92		85	116
		4-Bromofluorobenzene	50	50.7	101		79	119
VY0718SBS01	VY0718SBS01	1,2-Dichloroethane-d4	50	50.3	101		71	136
		Dibromofluoromethane	50	48.3	97		78	119
		Toluene-d8	50	48.2	96		85	116
		4-Bromofluorobenzene	50	47.0	94		79	119
VY0718SBSD01	VY0718SBSD01	1,2-Dichloroethane-d4	50	52.6	105		71	136
		Dibromofluoromethane	50	48.5	97		78	119
		Toluene-d8	50	47.2	94		85	116
		4-Bromofluorobenzene	50	46.2	92		79	119
VY0721SBL01	VY0721SBL01	1,2-Dichloroethane-d4	50	54.0	108		71	136
		Dibromofluoromethane	50	49.6	99		78	119
		Toluene-d8	50	48.0	96		85	116
		4-Bromofluorobenzene	50	54.7	109		79	119
VY0721SBS01	VY0721SBS01	1,2-Dichloroethane-d4	50	52.0	104		71	136
		Dibromofluoromethane	50	48.1	96		78	119
		Toluene-d8	50	47.5	95		85	116
		4-Bromofluorobenzene	50	47.2	94		79	119

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2639 **Analytical Method:** SW8260D

Client: Nobis Group **Datafile :** VY022999.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0718SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			29	149	
	Chloromethane	20	22.8	ug/Kg	114			50	136	
	Vinyl chloride	20	21.9	ug/Kg	110			56	135	
	Bromomethane	20	23.9	ug/Kg	119			53	143	
	Chloroethane	20	21.9	ug/Kg	110			59	139	
	Tetrahydrofuran	100	110	ug/Kg	110			61	135	
	Trichlorofluoromethane	20	21.5	ug/Kg	108			62	140	
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100			66	136	
	1,1-Dichloroethene	20	20.1	ug/Kg	101			70	131	
	Acrylonitrile	100	100	ug/Kg	100			65	134	
	Acetone	100	100	ug/Kg	100			36	164	
	Carbon disulfide	20	20.4	ug/Kg	102			63	132	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			73	125	
	Methylene Chloride	20	20.6	ug/Kg	103			70	128	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			74	125	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			76	125	
	2-Butanone	100	110	ug/Kg	110			51	148	
	Carbon Tetrachloride	20	19.5	ug/Kg	98			70	135	
	2,2-Dichloropropane	20	19.6	ug/Kg	98			67	133	
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101			77	123	
	Chloroform	20	20.2	ug/Kg	101			78	123	
	1,1,1-Trichloroethane	20	19.9	ug/Kg	100			73	130	
	1,1-Dichloropropene	20	19.9	ug/Kg	100			76	125	
	Benzene	20	19.9	ug/Kg	100			77	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			73	128	
	Trichloroethene	20	19.6	ug/Kg	98			77	123	
	1,2-Dichloropropane	20	19.7	ug/Kg	99			76	123	
	Dibromomethane	20	20.3	ug/Kg	102			78	125	
	Bromodichloromethane	20	20.0	ug/Kg	100			75	127	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			65	135	
	Toluene	20	19.9	ug/Kg	100			77	121	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			71	130	
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99			74	126	
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102			78	121	
	1,3-Dichloropropane	20	20.3	ug/Kg	102			77	121	
	2-Hexanone	100	100	ug/Kg	100			53	145	
	Dibromochloromethane	20	19.9	ug/Kg	100			74	126	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			78	122	
	Tetrachloroethene	20	20.3	ug/Kg	102			73	128	
	Chlorobenzene	20	19.3	ug/Kg	97			79	120	
	1,1,1,2-Tetrachloroethane	20	19.1	ug/Kg	96			78	125	
	Ethyl Benzene	20	19.4	ug/Kg	97			76	122	
	m/p-Xylenes	40	38.9	ug/Kg	97			77	124	
	o-Xylene	20	19.2	ug/Kg	96			77	123	
	Styrene	20	19.2	ug/Kg	96			76	124	
	Bromoform	20	19.2	ug/Kg	96			67	132	
	Isopropylbenzene	20	19.3	ug/Kg	97			68	134	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/Kg	97			70	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2639 **Analytical Method:** SW8260D

Client: Nobis Group **Datafile :** VY022999.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0718SBS01	1,2,3-Trichloropropane	20	17.7	ug/Kg	89			73	125	
	Bromobenzene	20	19.0	ug/Kg	95			78	121	
	N-propylbenzene	20	19.6	ug/Kg	98			73	125	
	2-Chlorotoluene	20	19.4	ug/Kg	97			75	122	
	1,3,5-Trimethylbenzene	20	19.2	ug/Kg	96			73	124	
	4-Chlorotoluene	20	19.7	ug/Kg	99			72	124	
	tert-Butylbenzene	20	18.7	ug/Kg	94			73	125	
	1,2,4-Trimethylbenzene	20	19.4	ug/Kg	97			75	123	
	Sec-butylbenzene	20	19.3	ug/Kg	97			73	126	
	p-Isopropyltoluene	20	19.4	ug/Kg	97			73	127	
	1,3-Dichlorobenzene	20	18.8	ug/Kg	94			77	121	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			75	120	
	n-Butylbenzene	20	19.6	ug/Kg	98			70	128	
	1,2-Dichlorobenzene	20	19.2	ug/Kg	96			78	121	
	1,2-Dibromo-3-Chloropropane	20	20.6	ug/Kg	103			61	132	
	1,2,4-Trichlorobenzene	20	19.6	ug/Kg	98			67	129	
	Hexachlorobutadiene	20	19.1	ug/Kg	96			61	135	
	1,2,3-Trichlorobenzene	20	19.7	ug/Kg	99			66	130	
	trans-1,4-Dichloro-2-butene	20	19.4	ug/Kg	97			62	136	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2639 **Analytical Method:** SW8260D

Client: Nobis Group **Datafile :** VY023000.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0718SBSD01	Dichlorodifluoromethane	20	19.9	ug/Kg	100	2		29	149	20
	Chloromethane	20	22.5	ug/Kg	113	1		50	136	20
	Vinyl chloride	20	21.0	ug/Kg	105	5		56	135	20
	Bromomethane	20	24.6	ug/Kg	123	3		53	143	20
	Chloroethane	20	21.6	ug/Kg	108	2		59	139	20
	Tetrahydrofuran	100	120	ug/Kg	120	9		61	135	20
	Trichlorofluoromethane	20	21.3	ug/Kg	106	2		62	140	20
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	1		66	136	20
	1,1-Dichloroethene	20	20.3	ug/Kg	102	1		70	131	20
	Acrylonitrile	100	120	ug/Kg	120	18		65	134	20
	Acetone	100	120	ug/Kg	120	18		36	164	20
	Carbon disulfide	20	20.3	ug/Kg	102	0		63	132	20
	Methyl tert-butyl Ether	20	22.6	ug/Kg	113	10		73	125	20
	Methylene Chloride	20	21.5	ug/Kg	108	5		70	128	20
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103	3		74	125	20
	1,1-Dichloroethane	20	21.1	ug/Kg	106	3		76	125	20
	2-Butanone	100	120	ug/Kg	120	9		51	148	20
	Carbon Tetrachloride	20	19.3	ug/Kg	97	1		70	135	20
	2,2-Dichloropropane	20	19.8	ug/Kg	99	1		67	133	20
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104	3		77	123	20
	Chloroform	20	20.9	ug/Kg	104	3		78	123	20
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	3		73	130	20
	1,1-Dichloropropene	20	19.9	ug/Kg	100	0		76	125	20
	Benzene	20	20.4	ug/Kg	102	2		77	121	20
	1,2-Dichloroethane	20	22.3	ug/Kg	112	9		73	128	20
	Trichloroethene	20	19.4	ug/Kg	97	1		77	123	20
	1,2-Dichloropropane	20	20.6	ug/Kg	103	4		76	123	20
	Dibromomethane	20	21.8	ug/Kg	109	7		78	125	20
	Bromodichloromethane	20	21.0	ug/Kg	105	5		75	127	20
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	9		65	135	20
	Toluene	20	20.4	ug/Kg	102	2		77	121	20
	t-1,3-Dichloropropene	20	21.2	ug/Kg	106	8		71	130	20
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104	5		74	126	20
	1,1,2-Trichloroethane	20	21.9	ug/Kg	110	8		78	121	20
	1,3-Dichloropropane	20	22.1	ug/Kg	111	8		77	121	20
	2-Hexanone	100	120	ug/Kg	120	18		53	145	20
	Dibromochloromethane	20	21.7	ug/Kg	109	9		74	126	20
	1,2-Dibromoethane	20	22.3	ug/Kg	112	11		78	122	20
	Tetrachloroethene	20	18.6	ug/Kg	93	9		73	128	20
	Chlorobenzene	20	19.9	ug/Kg	100	3		79	120	20
	1,1,1,2-Tetrachloroethane	20	19.9	ug/Kg	100	4		78	125	20
	Ethyl Benzene	20	19.2	ug/Kg	96	1		76	122	20
	m/p-Xylenes	40	38.5	ug/Kg	96	1		77	124	20
	o-Xylene	20	19.3	ug/Kg	97	1		77	123	20
	Styrene	20	19.7	ug/Kg	99	3		76	124	20
	Bromoform	20	21.2	ug/Kg	106	10		67	132	20
	Isopropylbenzene	20	19.1	ug/Kg	96	1		68	134	20
	1,1,2,2-Tetrachloroethane	20	22.3	ug/Kg	112	14		70	124	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2639 **Analytical Method:** SW8260D

Client: Nobis Group **Datafile :** VY023000.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0718SBSD01	1,2,3-Trichloropropane	20	18.2	ug/Kg	91	2		73	125	20
	Bromobenzene	20	19.8	ug/Kg	99	4		78	121	20
	N-propylbenzene	20	19.5	ug/Kg	98	0		73	125	20
	2-Chlorotoluene	20	19.6	ug/Kg	98	1		75	122	20
	1,3,5-Trimethylbenzene	20	19.4	ug/Kg	97	1		73	124	20
	4-Chlorotoluene	20	19.7	ug/Kg	99	0		72	124	20
	tert-Butylbenzene	20	18.9	ug/Kg	95	1		73	125	20
	1,2,4-Trimethylbenzene	20	19.7	ug/Kg	99	2		75	123	20
	Sec-butylbenzene	20	18.9	ug/Kg	95	2		73	126	20
	p-Isopropyltoluene	20	19.3	ug/Kg	97	0		73	127	20
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97	3		77	121	20
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100	4		75	120	20
	n-Butylbenzene	20	19.3	ug/Kg	97	1		70	128	20
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102	6		78	121	20
	1,2-Dibromo-3-Chloropropane	20	23.0	ug/Kg	115	11		61	132	20
	1,2,4-Trichlorobenzene	20	20.9	ug/Kg	104	6		67	129	20
	Hexachlorobutadiene	20	19.6	ug/Kg	98	2		61	135	20
	1,2,3-Trichlorobenzene	20	21.7	ug/Kg	109	10		66	130	20
	trans-1,4-Dichloro-2-butene	20	21.5	ug/Kg	108	11		62	136	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2639 **Analytical Method:** SW8260D

Client: Nobis Group **Datafile :** VY023017.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0721SBS01	Dichlorodifluoromethane	20	20.0	ug/Kg	100			29	149	
	Chloromethane	20	22.1	ug/Kg	111			50	136	
	Vinyl chloride	20	21.2	ug/Kg	106			56	135	
	Bromomethane	20	24.3	ug/Kg	121			53	143	
	Chloroethane	20	22.2	ug/Kg	111			59	139	
	Tetrahydrofuran	100	120	ug/Kg	120			61	135	
	Trichlorofluoromethane	20	21.1	ug/Kg	106			62	140	
	1,1,2-Trichlorotrifluoroethane	20	20.3	ug/Kg	102			66	136	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			70	131	
	Acrylonitrile	100	120	ug/Kg	120			65	134	
	Acetone	100	150	ug/Kg	150			36	164	
	Carbon disulfide	20	20.9	ug/Kg	104			63	132	
	Methyl tert-butyl Ether	20	21.9	ug/Kg	110			73	125	
	Methylene Chloride	20	20.2	ug/Kg	101			70	128	
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103			74	125	
	1,1-Dichloroethane	20	20.8	ug/Kg	104			76	125	
	2-Butanone	100	130	ug/Kg	130			51	148	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			70	135	
	2,2-Dichloropropane	20	20.5	ug/Kg	103			67	133	
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102			77	123	
	Chloroform	20	20.8	ug/Kg	104			78	123	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			73	130	
	1,1-Dichloropropene	20	19.7	ug/Kg	99			76	125	
	Benzene	20	20.1	ug/Kg	101			77	121	
	1,2-Dichloroethane	20	21.6	ug/Kg	108			73	128	
	Trichloroethene	20	19.4	ug/Kg	97			77	123	
	1,2-Dichloropropane	20	20.4	ug/Kg	102			76	123	
	Dibromomethane	20	21.7	ug/Kg	109			78	125	
	Bromodichloromethane	20	20.6	ug/Kg	103			75	127	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			65	135	
	Toluene	20	20.0	ug/Kg	100			77	121	
	t-1,3-Dichloropropene	20	20.8	ug/Kg	104			71	130	
	cis-1,3-Dichloropropene	20	21.0	ug/Kg	105			74	126	
	1,1,2-Trichloroethane	20	21.3	ug/Kg	106			78	121	
	1,3-Dichloropropane	20	21.4	ug/Kg	107			77	121	
	2-Hexanone	100	120	ug/Kg	120			53	145	
	Dibromochloromethane	20	20.9	ug/Kg	104			74	126	
	1,2-Dibromoethane	20	21.6	ug/Kg	108			78	122	
	Tetrachloroethene	20	19.3	ug/Kg	97			73	128	
	Chlorobenzene	20	20.0	ug/Kg	100			79	120	
	1,1,1,2-Tetrachloroethane	20	19.6	ug/Kg	98			78	125	
	Ethyl Benzene	20	19.3	ug/Kg	97			76	122	
	m/p-Xylenes	40	38.8	ug/Kg	97			77	124	
	o-Xylene	20	19.5	ug/Kg	98			77	123	
	Styrene	20	19.4	ug/Kg	97			76	124	
	Bromoform	20	21.3	ug/Kg	106			67	132	
	Isopropylbenzene	20	18.6	ug/Kg	93			68	134	
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106			70	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2639 **Analytical Method:** SW8260D

Client: Nobis Group **Datafile :** VY023017.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0721SBS01	1,2,3-Trichloropropane	20	18.3	ug/Kg	92			73	125	
	Bromobenzene	20	19.2	ug/Kg	96			78	121	
	N-propylbenzene	20	19.0	ug/Kg	95			73	125	
	2-Chlorotoluene	20	19.0	ug/Kg	95			75	122	
	1,3,5-Trimethylbenzene	20	18.9	ug/Kg	95			73	124	
	4-Chlorotoluene	20	19.1	ug/Kg	96			72	124	
	tert-Butylbenzene	20	18.7	ug/Kg	94			73	125	
	1,2,4-Trimethylbenzene	20	18.8	ug/Kg	94			75	123	
	Sec-butylbenzene	20	18.7	ug/Kg	94			73	126	
	p-Isopropyltoluene	20	18.8	ug/Kg	94			73	127	
	1,3-Dichlorobenzene	20	19.0	ug/Kg	95			77	121	
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98			75	120	
	n-Butylbenzene	20	19.0	ug/Kg	95			70	128	
	1,2-Dichlorobenzene	20	19.0	ug/Kg	95			78	121	
	1,2-Dibromo-3-Chloropropane	20	23.2	ug/Kg	116			61	132	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			67	129	
	Hexachlorobutadiene	20	18.7	ug/Kg	94			61	135	
	1,2,3-Trichlorobenzene	20	20.7	ug/Kg	104			66	130	
	trans-1,4-Dichloro-2-butene	20	20.2	ug/Kg	101			62	136	

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VY0718SBL01

Lab Name: Alliance | Contract: NOBI03

Lab Code: ACE | SDG NO.: Q2639

Lab File ID: VY022998.D | Lab Sample ID: VY0718SBL01

Date Analyzed: 07/18/2025 | Time Analyzed: 15:10

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
VY0718SBS01	VY0718SBS01	VY022999.D	07/18/2025
VY0718SBSD01	VY0718SBSD01	VY023000.D	07/18/2025
OU4-TS-38-071725	Q2639-01	VY023008.D	07/18/2025
OU4-TS-39-071725	Q2639-03	VY023009.D	07/18/2025
OU4-TS-40-071725	Q2639-05	VY023010.D	07/18/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VY0721SBL01

Lab Name: Alliance | Contract: NOBI03

Lab Code: ACE | SDG NO.: Q2639

Lab File ID: VY023016.D | Lab Sample ID: VY0721SBL01

Date Analyzed: 07/21/2025 | Time Analyzed: 10:39

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
VY0721SBS01	VY0721SBS01	VY023017.D	07/21/2025
OU4-TS-41-071725	Q2639-07	VY023020.D	07/21/2025
OU4-TS-42-071725	Q2639-09	VY023021.D	07/21/2025
OU4-TS-43-071725	Q2639-11	VY023022.D	07/21/2025
OU4-TS-44-071725	Q2639-13	VY023023.D	07/21/2025

COMMENTS:

Raw Data: **VY022989.D**

Alliance TECHNICAL GROUP

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: NOBI03
Lab Code: ACE
SDG NO.: Q2639
Lab File ID: VY022989.D
BFB Injection Date: 07/18/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 09:38
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 60.0% of mass 95	54.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	82.7
175	5.0 - 9.0% of mass 174	6 (7.3) 1
176	95.0 - 101.0% of mass 174	79.6 (96.3) 1
177	5.0 - 9.0% of mass 176	5.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022990.D	07/18/2025	10:08
VSTDICC010	VSTDICC010	VY022991.D	07/18/2025	10:54
VSTDICC020	VSTDICC020	VY022992.D	07/18/2025	11:41
VSTDICCC050	VSTDICCC050	VY022993.D	07/18/2025	12:04
VSTDICC100	VSTDICC100	VY022994.D	07/18/2025	12:27
VSTDICC150	VSTDICC150	VY022995.D	07/18/2025	12:49
VY0718SBL01	VY0718SBL01	VY022998.D	07/18/2025	15:10
VY0718SBS01	VY0718SBS01	VY022999.D	07/18/2025	15:37
VY0718SBSD01	VY0718SBSD01	VY023000.D	07/18/2025	16:00
OU4-TS-38-071725	Q2639-01	VY023008.D	07/18/2025	19:18
OU4-TS-39-071725	Q2639-03	VY023009.D	07/18/2025	19:41
OU4-TS-40-071725	Q2639-05	VY023010.D	07/18/2025	20:03
VSTDCCC050EC	VSTDCCC050	VY023013.D	07/18/2025	21:30

Raw Data: **VY023014.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: NOBI03

Lab Code: ACE | SDG NO.: Q2639

Lab File ID: VY023014.D | BFB Injection Date: 07/21/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:24

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	21
75	30.0 - 60.0% of mass 95	53.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	1 (1.1) 1
174	50.0 - 100.0% of mass 95	85.8
175	5.0 - 9.0% of mass 174	6.5 (7.5) 1
176	95.0 - 101.0% of mass 174	83.4 (97.2) 1
177	5.0 - 9.0% of mass 176	5.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023015.D	07/21/2025	10:08
VY0721SBL01	VY0721SBL01	VY023016.D	07/21/2025	10:39
VY0721SBS01	VY0721SBS01	VY023017.D	07/21/2025	11:13
OU4-TS-41-071725	Q2639-07	VY023020.D	07/21/2025	12:39
OU4-TS-42-071725	Q2639-09	VY023021.D	07/21/2025	13:03
OU4-TS-43-071725	Q2639-11	VY023022.D	07/21/2025	13:26
OU4-TS-44-071725	Q2639-13	VY023023.D	07/21/2025	13:49
VSTDCCC050EC	VSTDCCC050	VY023037.D	07/21/2025	19:16

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG NO.: Q2639

Lab File ID: VY022993.D Date Analyzed: 07/18/2025

Instrument ID: MSVOA_Y Time Analyzed: 12:04

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	501817	7.71	789191	8.62	664286	11.41
UPPER LIMIT	1003630	8.207	1578380	9.116	1328570	11.914
LOWER LIMIT	250909	7.207	394596	8.116	332143	10.914
EPA SAMPLE NO.						
OU4-TS-38-071725	273786	7.71	495099	8.62	487615	11.41
OU4-TS-39-071725	276942	7.71	502315	8.62	491116	11.41
OU4-TS-40-071725	268551	7.71	484234	8.62	470038	11.41
VY0718SBL01	356999	7.71	626641	8.61	573852	11.41
VY0718SBS01	436221	7.71	709471	8.62	602809	11.41
VY0718SBSD01	441498	7.71	726763	8.61	622024	11.41

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG NO.: Q2639

Lab File ID: VY022993.D Date Analyzed: 07/18/2025

Instrument ID: MSVOA_Y Time Analyzed: 12:04

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

	IS4 AREA #	RT #				
12 HOUR STD	311329	13.34				
UPPER LIMIT	622658	13.84				
LOWER LIMIT	155665	12.84				
EPA SAMPLE NO.						
OU4-TS-38-071725	213541	13.35				
OU4-TS-39-071725	218910	13.35				
OU4-TS-40-071725	210725	13.34				
VY0718SBL01	242761	13.35				
VY0718SBS01	278729	13.34				
VY0718SBSD01	290368	13.34				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG NO.: Q2639

Lab File ID: VY023015.D Date Analyzed: 07/21/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:08

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	466550	7.71	745278	8.62	646276	11.41
UPPER LIMIT	933100	8.207	1490560	9.116	1292550	11.914
LOWER LIMIT	233275	7.207	372639	8.116	323138	10.914
EPA SAMPLE NO.						
OU4-TS-41-071725	312888	7.71	608344	8.62	609203	11.41
OU4-TS-42-071725	305730	7.71	566544	8.61	540204	11.41
OU4-TS-43-071725	283323	7.71	535446	8.62	514282	11.41
OU4-TS-44-071725	278906	7.71	524366	8.62	503133	11.41
VY0721SBL01	332701	7.71	625866	8.62	615563	11.41
VY0721SBS01	417337	7.71	691452	8.62	586317	11.41

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG NO.: Q2639

Lab File ID: VY023015.D Date Analyzed: 07/21/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:08

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

	IS4 AREA #	RT #				
12 HOUR STD	315391	13.346				
UPPER LIMIT	630782	13.846				
LOWER LIMIT	157696	12.846				
EPA SAMPLE NO.						
OU4-TS-41-071725	265662	13.35				
OU4-TS-42-071725	221582	13.34				
OU4-TS-43-071725	206482	13.35				
OU4-TS-44-071725	198101	13.34				
VY0721SBL01	271493	13.35				
VY0721SBS01	283751	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.**

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **VY023008.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-38-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.6
Sample Wt/Vol:	4.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023008.D	1	07/18/25 19:18	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0054	U	0.0015	0.0054	0.0067	mg/Kg
74-87-3	Chloromethane	0.0034	U	0.0015	0.0034	0.0067	mg/Kg
75-01-4	Vinyl Chloride	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
74-83-9	Bromomethane	0.0054	U	0.0014	0.0054	0.0067	mg/Kg
75-00-3	Chloroethane	0.0034	U	0.0017	0.0034	0.0067	mg/Kg
109-99-9	Tetrahydrofuran	0.017	U	0.0063	0.017	0.034	mg/Kg
75-69-4	Trichlorofluoromethane	0.0054	U	0.0016	0.0054	0.0067	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0034	U	0.0014	0.0034	0.0067	mg/Kg
75-35-4	1,1-Dichloroethene	0.0034	U	0.0013	0.0034	0.0067	mg/Kg
107-13-1	Acrylonitrile	0.017	U	0.0067	0.017	0.034	mg/Kg
67-64-1	Acetone	0.027	U	0.0064	0.027	0.034	mg/Kg
75-15-0	Carbon Disulfide	0.0054	U	0.0014	0.0054	0.0067	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0034	U	0.00098	0.0034	0.0067	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0047	0.011	0.013	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
75-34-3	1,1-Dichloroethane	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
78-93-3	2-Butanone	0.027	U	0.0088	0.027	0.034	mg/Kg
56-23-5	Carbon Tetrachloride	0.0034	U	0.0013	0.0034	0.0067	mg/Kg
594-20-7	2,2-Dichloropropane	0.0054	U	0.0017	0.0054	0.0067	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0034	U	0.0010	0.0034	0.0067	mg/Kg
67-66-3	Chloroform	0.0054	U	0.0011	0.0054	0.0067	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
563-58-6	1,1-Dichloropropene	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
71-43-2	Benzene	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
107-06-2	1,2-Dichloroethane	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
79-01-6	Trichloroethene	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
78-87-5	1,2-Dichloropropane	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
74-95-3	Dibromomethane	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
75-27-4	Bromodichloromethane	0.0034	U	0.0010	0.0034	0.0067	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.017	U	0.0048	0.017	0.034	mg/Kg

Raw Data: **VY023008.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-38-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.6
Sample Wt/Vol:	4.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023008.D	1	07/18/25 19:18	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0034	U	0.0010	0.0034	0.0067	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0034	U	0.00087	0.0034	0.0067	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0034	U	0.00083	0.0034	0.0067	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
142-28-9	1,3-Dichloropropane	0.0034	U	0.00091	0.0034	0.0067	mg/Kg
591-78-6	2-Hexanone	0.017	U	0.0050	0.017	0.034	mg/Kg
124-48-1	Dibromochloromethane	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
106-93-4	1,2-Dibromoethane	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
127-18-4	Tetrachloroethene	0.0034	U	0.0014	0.0034	0.0067	mg/Kg
108-90-7	Chlorobenzene	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0034	U	0.0010	0.0034	0.0067	mg/Kg
100-41-4	Ethyl Benzene	0.0034	U	0.00090	0.0034	0.0067	mg/Kg
1330-20-7	Total Xylenes	0.010	U	0.0028	0.010	0.020	mg/Kg
179601-23-1	m/p-Xylenes	0.0067	U	0.0017	0.0067	0.013	mg/Kg
95-47-6	o-Xylene	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
100-42-5	Styrene	0.0034	U	0.00095	0.0034	0.0067	mg/Kg
75-25-2	Bromoform	0.0034	U	0.0012	0.0034	0.0067	mg/Kg
98-82-8	Isopropylbenzene	0.0034	U	0.0010	0.0034	0.0067	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0034	U	0.0016	0.0034	0.0067	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0054	U	0.0017	0.0054	0.0067	mg/Kg
108-86-1	Bromobenzene	0.0034	U	0.0016	0.0034	0.0067	mg/Kg
103-65-1	n-propylbenzene	0.0034	U	0.00098	0.0034	0.0067	mg/Kg
95-49-8	2-Chlorotoluene	0.0034	U	0.00091	0.0034	0.0067	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0034	U	0.0011	0.0034	0.0067	mg/Kg
106-43-4	4-Chlorotoluene	0.0034	U	0.0016	0.0034	0.0067	mg/Kg
98-06-6	tert-Butylbenzene	0.0034	U	0.00090	0.0034	0.0067	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0034	U	0.00086	0.0034	0.0067	mg/Kg
135-98-8	sec-Butylbenzene	0.0034	U	0.00089	0.0034	0.0067	mg/Kg
99-87-6	p-Isopropyltoluene	0.0034	U	0.00083	0.0034	0.0067	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0034	U	0.0023	0.0034	0.0067	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0034	U	0.0021	0.0034	0.0067	mg/Kg

Raw Data: **VY023008.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-38-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.6
Sample Wt/Vol:	4.62 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023008.D	1	07/18/25 19:18	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0034	U	0.0019	0.0034	0.0067	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0034	U	0.0019	0.0034	0.0067	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0054	U	0.0025	0.0054	0.0067	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0054	U	0.0040	0.0054	0.0067	mg/Kg
87-68-3	Hexachlorobutadiene	0.0034	U	0.0026	0.0034	0.0067	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0054	U	0.0043	0.0054	0.0067	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0034	U	0.0014	0.0034	0.0067	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	67.9		71 - 136		136%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	48.5		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		79 - 119		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	274000	7.707				
540-36-3	1,4-Difluorobenzene	495000	8.616				
3114-55-4	Chlorobenzene-d5	488000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	214000	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\VY071825\
Data File : VY023008.D
Acq On : 18 Jul 2025 19:18
Operator : SY/MD
Sample : Q2639-01
Misc : 4.62g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-38-071725

Quant Time: Jul 19 02:15:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	273786	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	495099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	487615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	213541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	188112	67.871	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 135.740%			
35) Dibromofluoromethane	7.634	113	160366	51.062	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.120%			
50) Toluene-d8	10.109	98	603868	48.486	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.980%			
62) 4-Bromofluorobenzene	12.402	95	214013	54.589	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.180%			

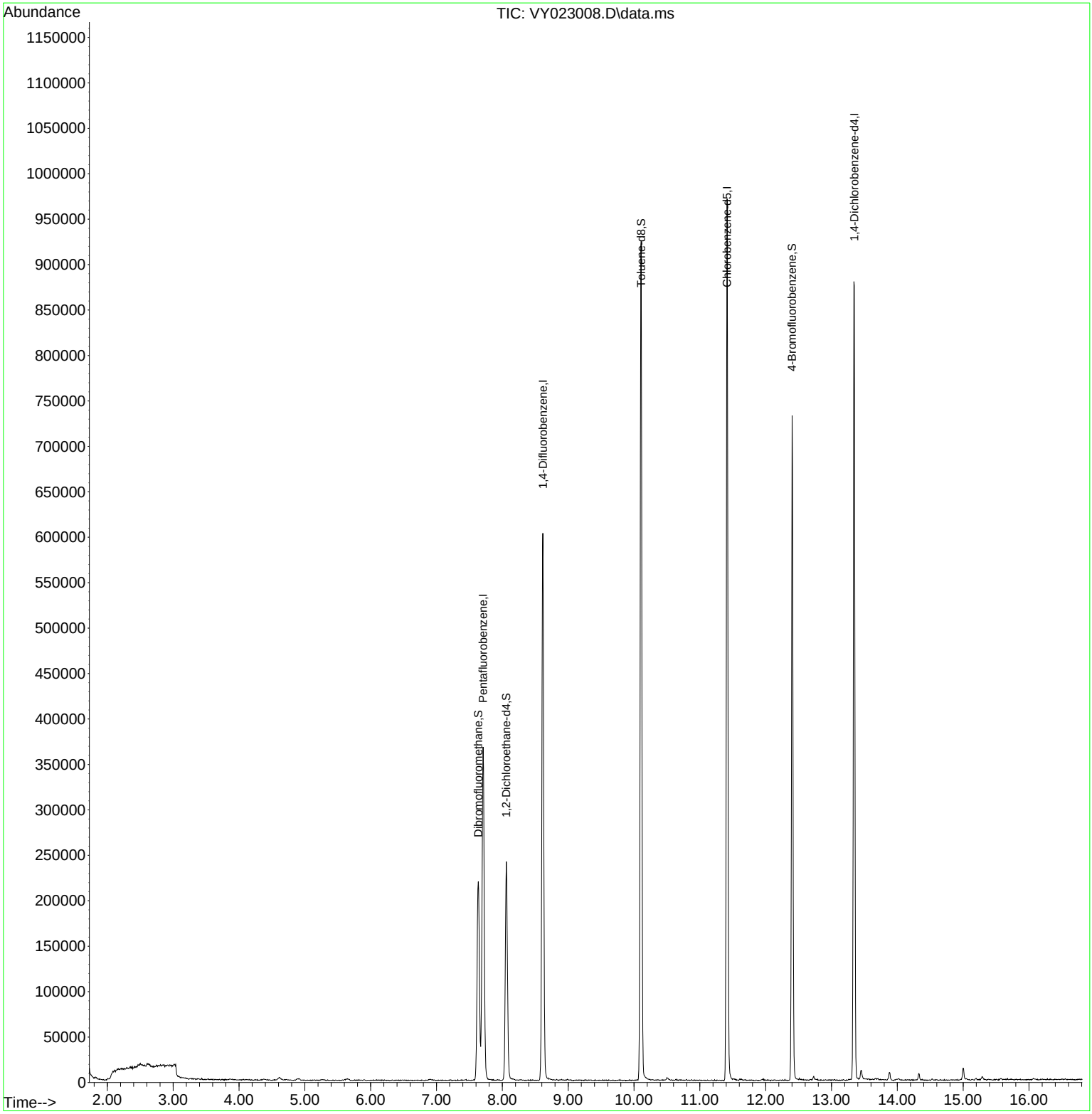
Target Compounds Qvalue

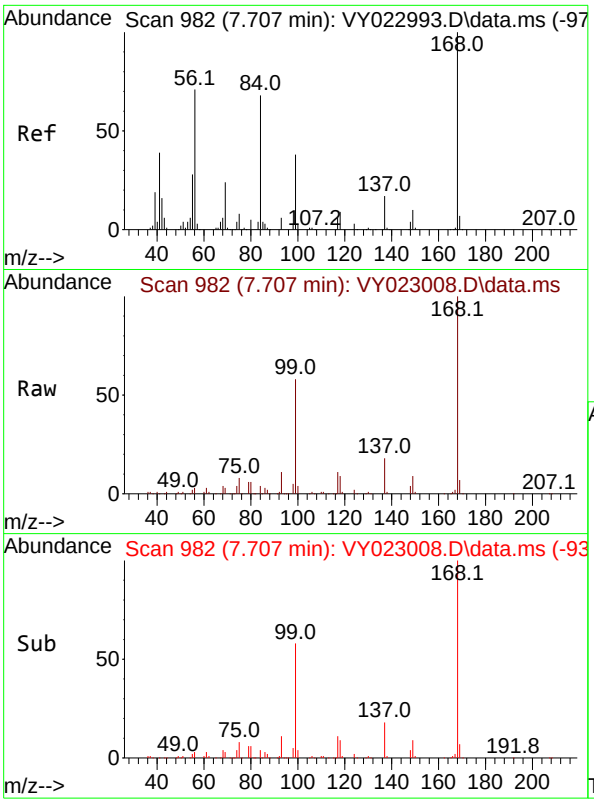
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023008.D
Acq On : 18 Jul 2025 19:18
Operator : SY/MD
Sample : Q2639-01
Misc : 4.62g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-38-071725

Quant Time: Jul 19 02:15:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



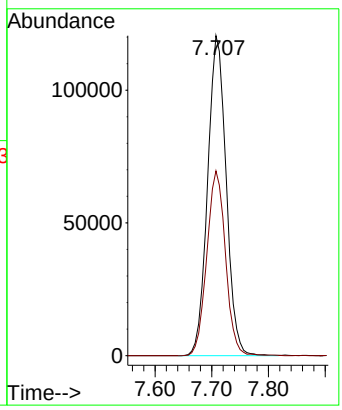


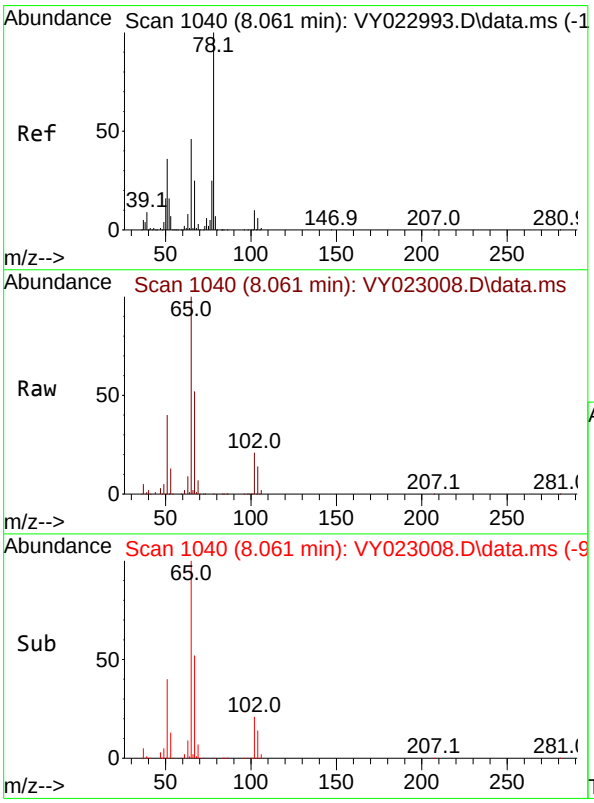
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-38-071725

Tgt Ion:168 Resp: 273786

Ion	Ratio	Lower	Upper
168	100		
99	57.8	44.4	66.6

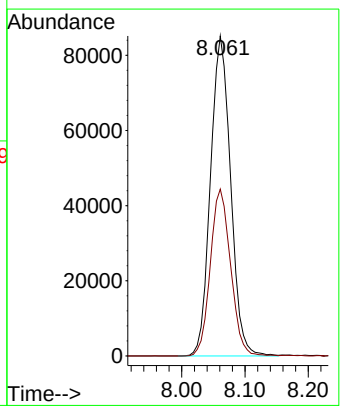


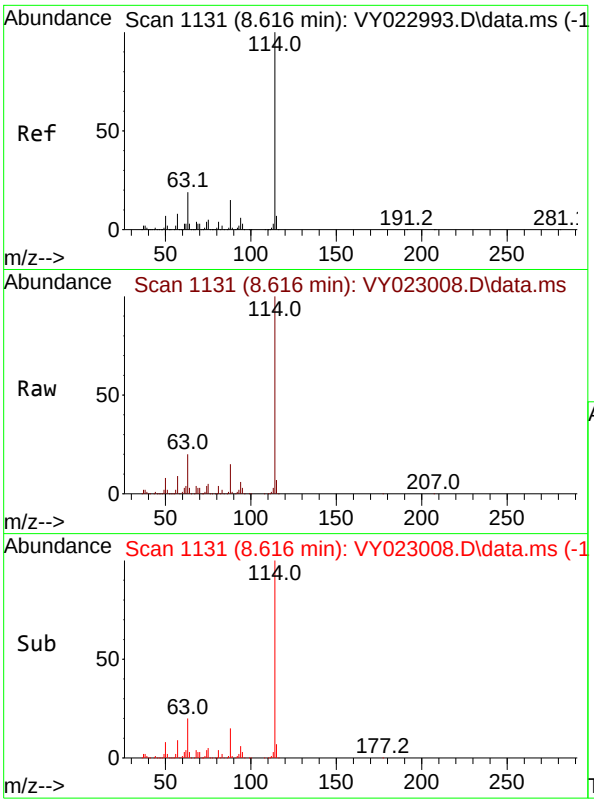


#33
1,2-Dichloroethane-d4
Concen: 67.871 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Tgt Ion: 65 Resp: 188112

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	107.4



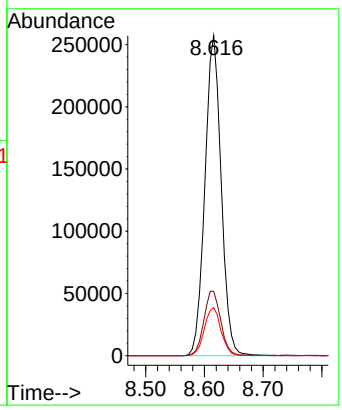


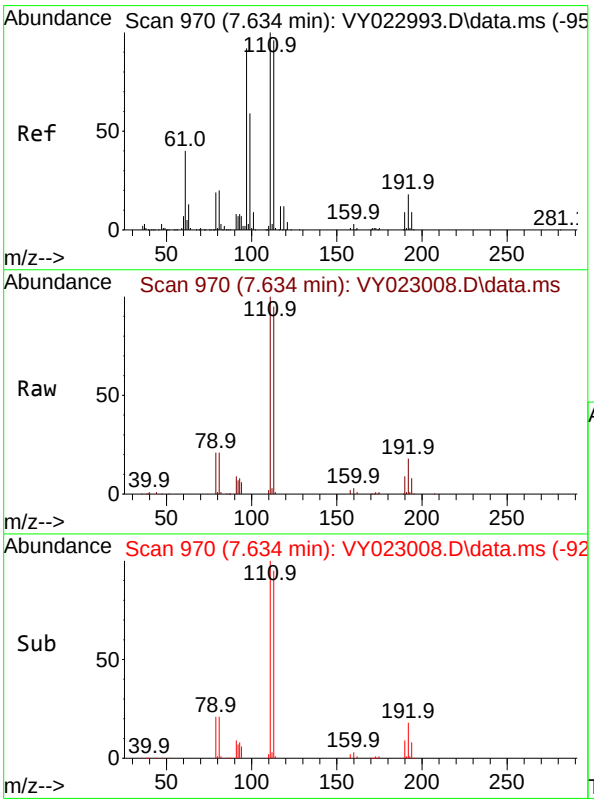
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-38-071725

Tgt Ion:114 Resp: 495099

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	38.8
88	15.0	0.0	30.2

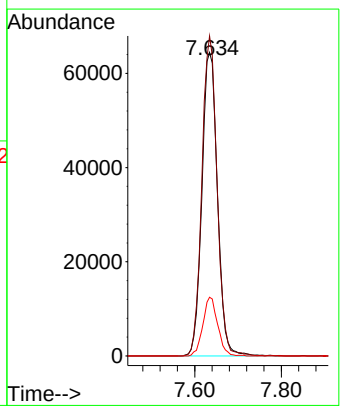


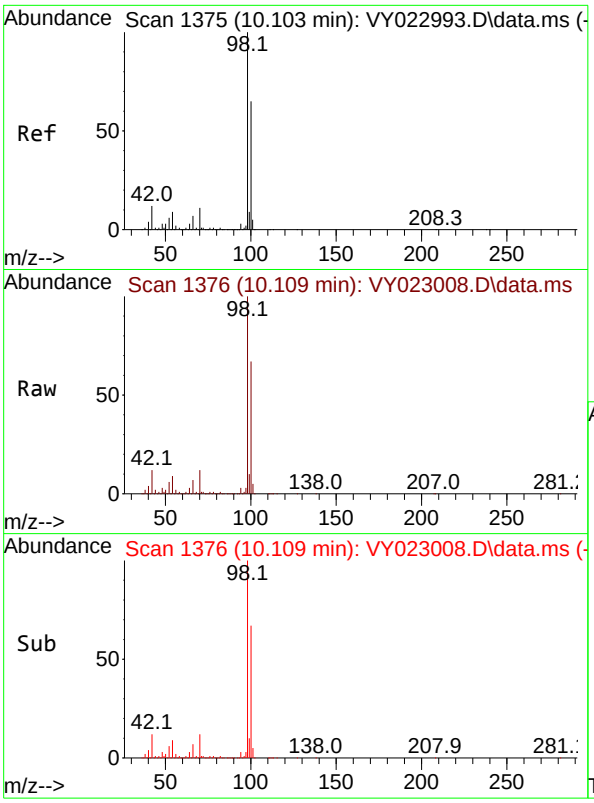


#35
Dibromofluoromethane
Concen: 51.062 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Tgt Ion:113 Resp: 160366

Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.2	124.8
192	18.5	15.3	22.9



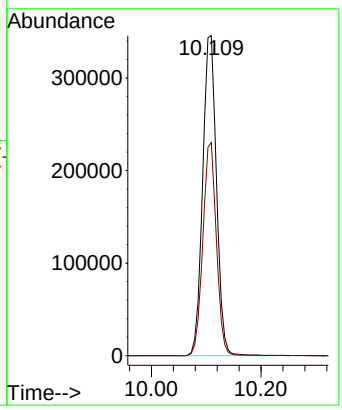


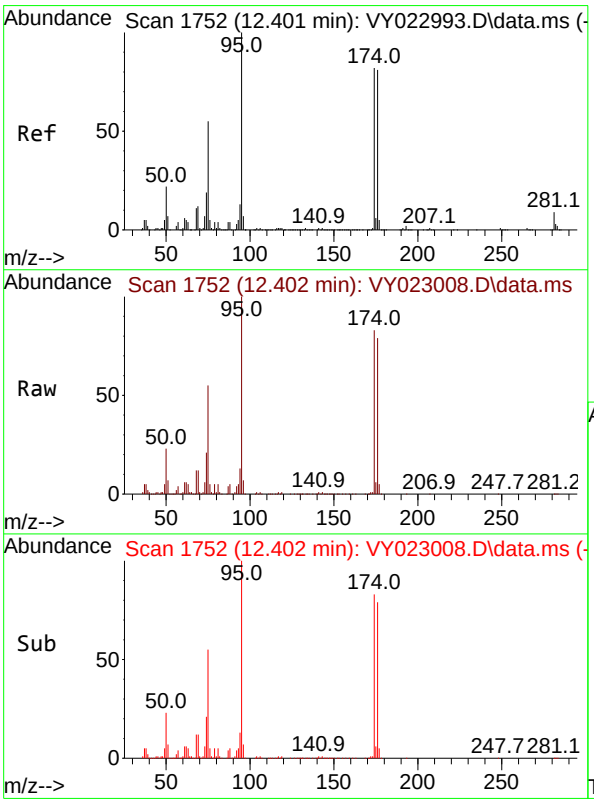
#50
Toluene-d8
Concen: 48.486 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-38-071725

Tgt Ion: 98 Resp: 603868

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2

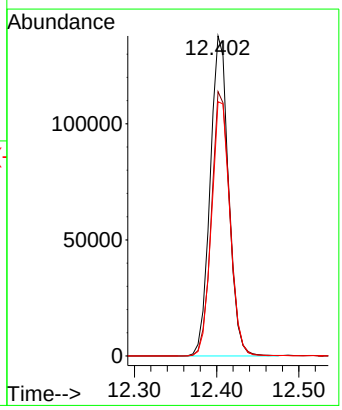


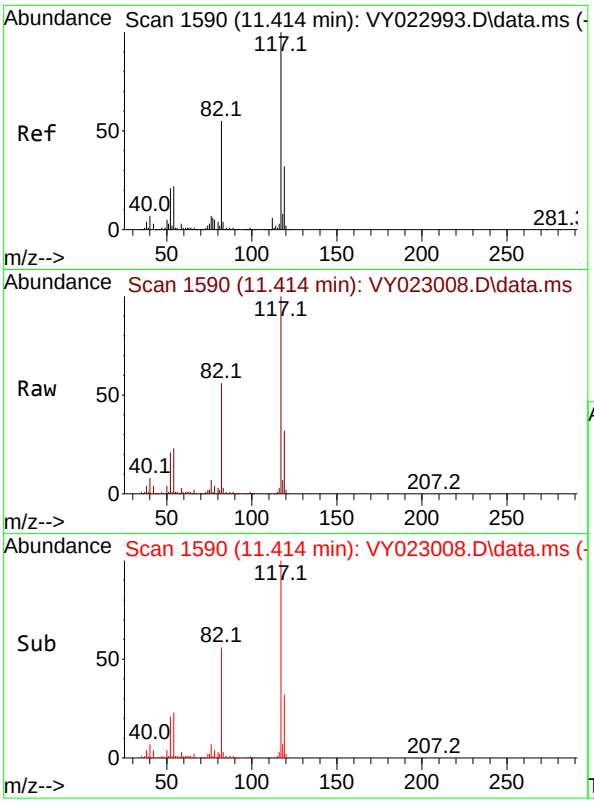


#62
4-Bromofluorobenzene
Concen: 54.589 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Tgt Ion: 95 Resp: 214013

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.8
176	80.0	0.0	163.6



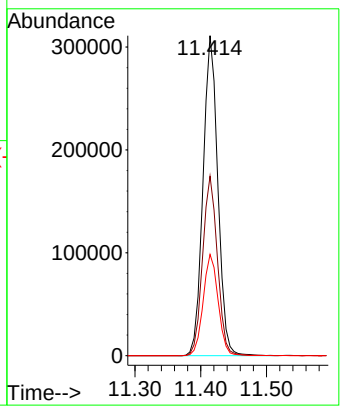


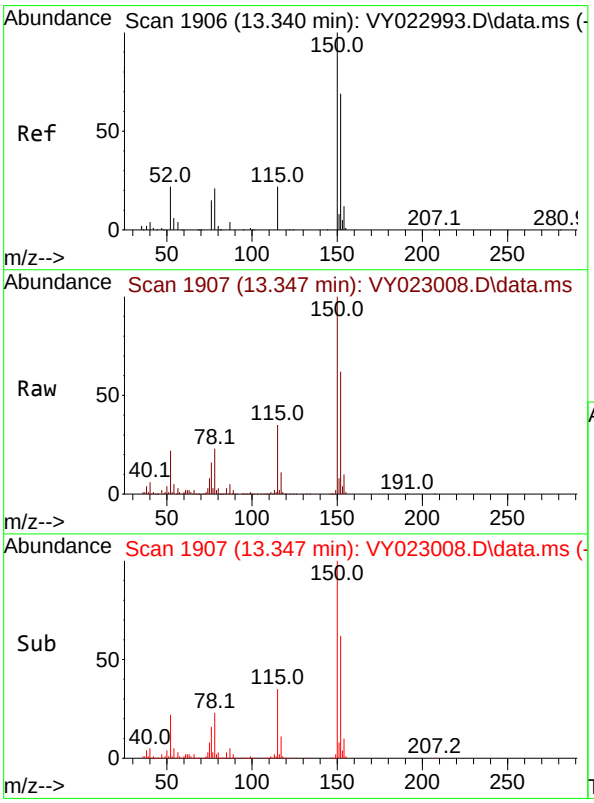
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-38-071725

Tgt Ion:117 Resp: 487615

Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.3	66.5
119	31.6	25.8	38.8

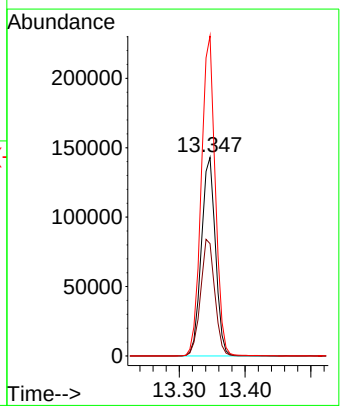




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023008.D
Acq: 18 Jul 2025 19:18

Tgt Ion:152 Resp: 213541

Ion	Ratio	Lower	Upper
152	100		
115	59.2	29.4	88.2
150	159.8	0.0	350.0



Raw Data: **VY023009.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-39-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	4.34 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023009.D	1	07/18/25 19:41	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0057	U	0.0016	0.0057	0.0071	mg/Kg
74-87-3	Chloromethane	0.0036	U	0.0016	0.0036	0.0071	mg/Kg
75-01-4	Vinyl Chloride	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
74-83-9	Bromomethane	0.0057	U	0.0015	0.0057	0.0071	mg/Kg
75-00-3	Chloroethane	0.0036	U	0.0018	0.0036	0.0071	mg/Kg
109-99-9	Tetrahydrofuran	0.018	U	0.0066	0.018	0.036	mg/Kg
75-69-4	Trichlorofluoromethane	0.0057	U	0.0017	0.0057	0.0071	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0036	U	0.0015	0.0036	0.0071	mg/Kg
75-35-4	1,1-Dichloroethene	0.0036	U	0.0014	0.0036	0.0071	mg/Kg
107-13-1	Acrylonitrile	0.018	U	0.0071	0.018	0.036	mg/Kg
67-64-1	Acetone	0.028	U	0.0067	0.028	0.036	mg/Kg
75-15-0	Carbon Disulfide	0.0057	U	0.0015	0.0057	0.0071	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0036	U	0.0010	0.0036	0.0071	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0050	0.011	0.014	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
75-34-3	1,1-Dichloroethane	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
78-93-3	2-Butanone	0.028	U	0.0093	0.028	0.036	mg/Kg
56-23-5	Carbon Tetrachloride	0.0036	U	0.0014	0.0036	0.0071	mg/Kg
594-20-7	2,2-Dichloropropane	0.0057	U	0.0018	0.0057	0.0071	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
67-66-3	Chloroform	0.0057	U	0.0012	0.0057	0.0071	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0036	U	0.0013	0.0036	0.0071	mg/Kg
563-58-6	1,1-Dichloropropene	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
71-43-2	Benzene	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
107-06-2	1,2-Dichloroethane	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
79-01-6	Trichloroethene	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
78-87-5	1,2-Dichloropropane	0.0036	U	0.0013	0.0036	0.0071	mg/Kg
74-95-3	Dibromomethane	0.0036	U	0.0013	0.0036	0.0071	mg/Kg
75-27-4	Bromodichloromethane	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.018	U	0.0051	0.018	0.036	mg/Kg

Raw Data: **VY023009.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-39-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	4.34 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023009.D	1	07/18/25 19:41	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0036	U	0.00092	0.0036	0.0071	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0036	U	0.00088	0.0036	0.0071	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0036	U	0.0013	0.0036	0.0071	mg/Kg
142-28-9	1,3-Dichloropropane	0.0036	U	0.00097	0.0036	0.0071	mg/Kg
591-78-6	2-Hexanone	0.018	U	0.0052	0.018	0.036	mg/Kg
124-48-1	Dibromochloromethane	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
106-93-4	1,2-Dibromoethane	0.0036	U	0.0013	0.0036	0.0071	mg/Kg
127-18-4	Tetrachloroethene	0.0036	U	0.0015	0.0036	0.0071	mg/Kg
108-90-7	Chlorobenzene	0.0036	U	0.0013	0.0036	0.0071	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
100-41-4	Ethyl Benzene	0.0036	U	0.00095	0.0036	0.0071	mg/Kg
1330-20-7	Total Xylenes	0.011	U	0.0030	0.011	0.021	mg/Kg
179601-23-1	m/p-Xylenes	0.0071	U	0.0018	0.0071	0.014	mg/Kg
95-47-6	o-Xylene	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
100-42-5	Styrene	0.0036	U	0.0010	0.0036	0.0071	mg/Kg
75-25-2	Bromoform	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
98-82-8	Isopropylbenzene	0.0036	U	0.0011	0.0036	0.0071	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0036	U	0.0017	0.0036	0.0071	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0057	U	0.0018	0.0057	0.0071	mg/Kg
108-86-1	Bromobenzene	0.0036	U	0.0017	0.0036	0.0071	mg/Kg
103-65-1	n-propylbenzene	0.0036	U	0.0010	0.0036	0.0071	mg/Kg
95-49-8	2-Chlorotoluene	0.0036	U	0.00097	0.0036	0.0071	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0036	U	0.0012	0.0036	0.0071	mg/Kg
106-43-4	4-Chlorotoluene	0.0036	U	0.0017	0.0036	0.0071	mg/Kg
98-06-6	tert-Butylbenzene	0.0036	U	0.00095	0.0036	0.0071	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0036	U	0.00091	0.0036	0.0071	mg/Kg
135-98-8	sec-Butylbenzene	0.0036	U	0.00094	0.0036	0.0071	mg/Kg
99-87-6	p-Isopropyltoluene	0.0036	U	0.00088	0.0036	0.0071	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0036	U	0.0024	0.0036	0.0071	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0036	U	0.0022	0.0036	0.0071	mg/Kg

Raw Data: **VY023009.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-39-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81
Sample Wt/Vol:	4.34 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023009.D	1	07/18/25 19:41	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0036	U	0.0021	0.0036	0.0071	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0036	U	0.0021	0.0036	0.0071	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0057	U	0.0026	0.0057	0.0071	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0057	U	0.0042	0.0057	0.0071	mg/Kg
87-68-3	Hexachlorobutadiene	0.0036	U	0.0027	0.0036	0.0071	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0057	U	0.0045	0.0057	0.0071	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0036	U	0.0015	0.0036	0.0071	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	67.4		71 - 136		135%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		79 - 119		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	277000	7.707				
540-36-3	1,4-Difluorobenzene	502000	8.616				
3114-55-4	Chlorobenzene-d5	491000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	219000	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\VY071825\
Data File : VY023009.D
Acq On : 18 Jul 2025 19:41
Operator : SY/MD
Sample : Q2639-03
Misc : 4.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-39-071725

Quant Time: Jul 19 02:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

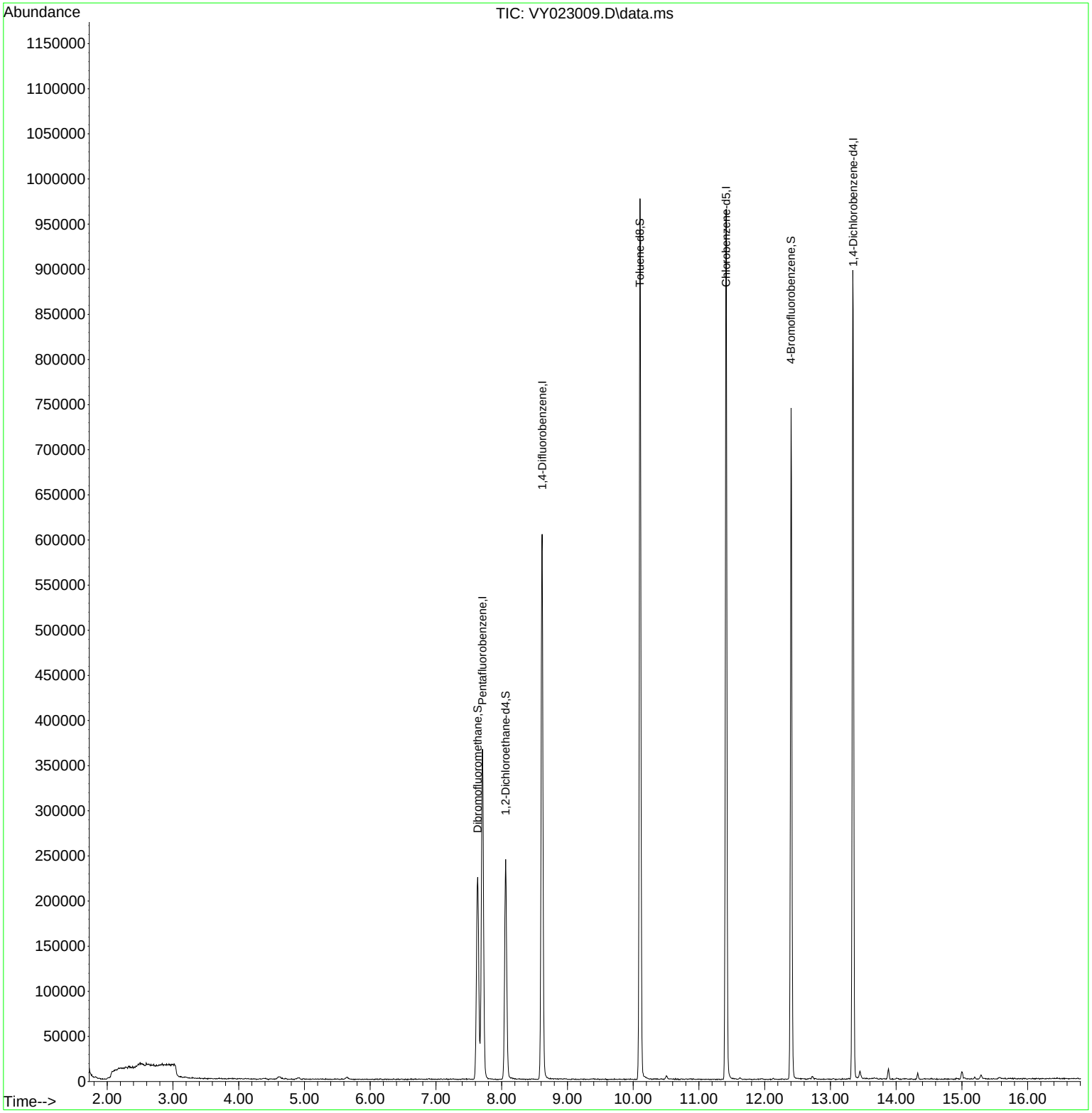
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	276942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	502315	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	491116	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	218910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	188923	67.387	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 134.780%			
35) Dibromofluoromethane	7.634	113	161986	50.837	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.680%			
50) Toluene-d8	10.103	98	611323	48.380	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.760%			
62) 4-Bromofluorobenzene	12.402	95	215640	54.214	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.420%			
Target Compounds						Qvalue

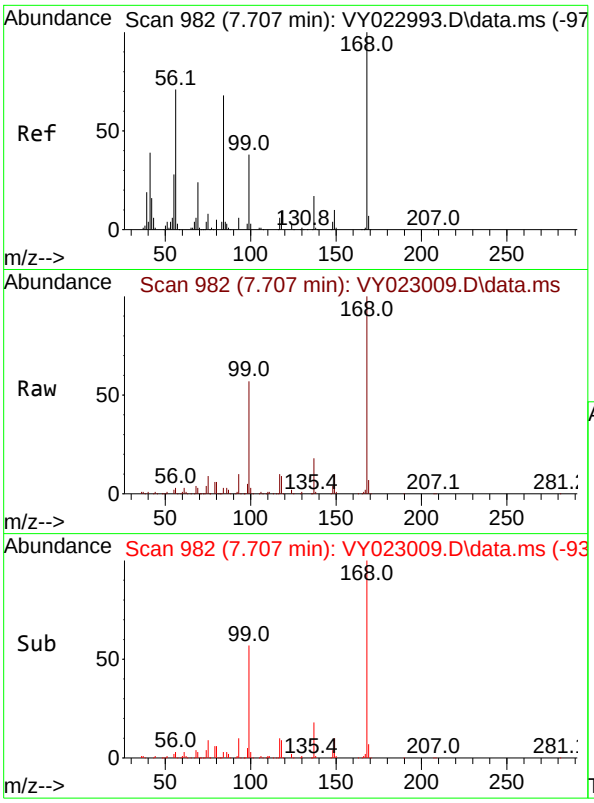
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023009.D
Acq On : 18 Jul 2025 19:41
Operator : SY/MD
Sample : Q2639-03
Misc : 4.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-39-071725

Quant Time: Jul 19 02:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



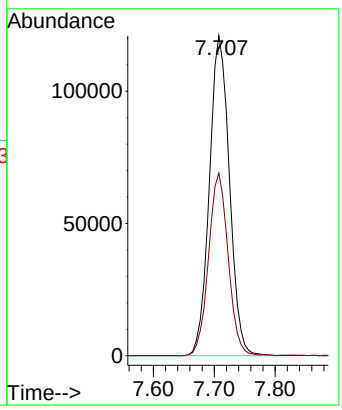


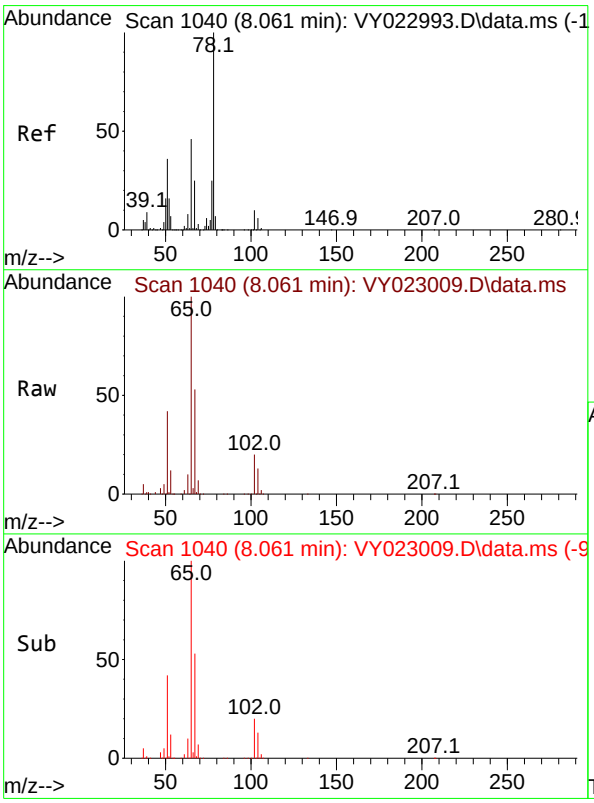
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-39-071725

Tgt Ion:168 Resp: 276942

Ion	Ratio	Lower	Upper
168	100		
99	57.1	44.4	66.6

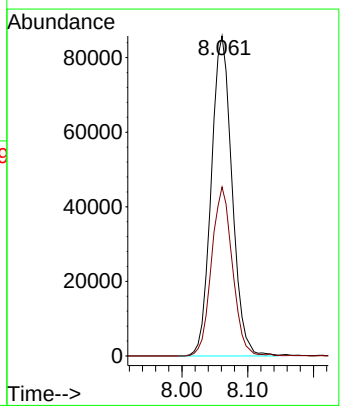


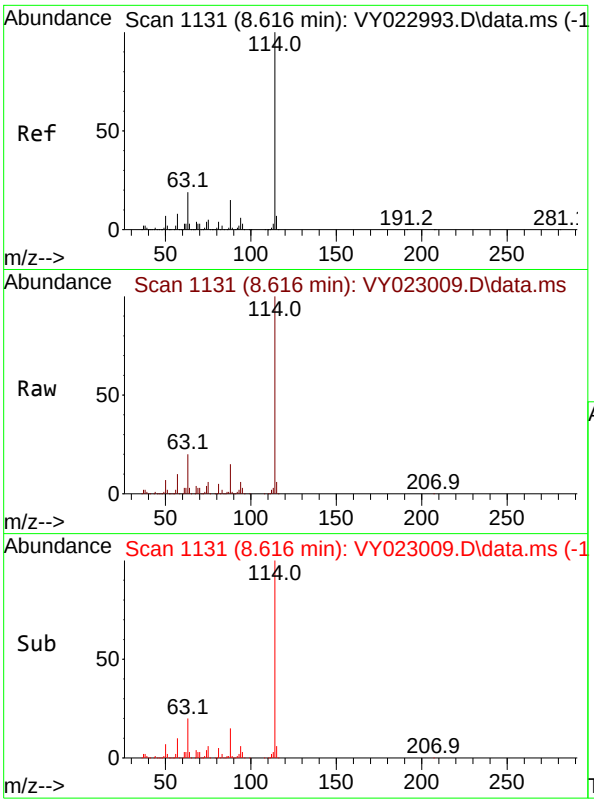


#33
1,2-Dichloroethane-d4
Concen: 67.387 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Tgt Ion: 65 Resp: 188923

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	107.4



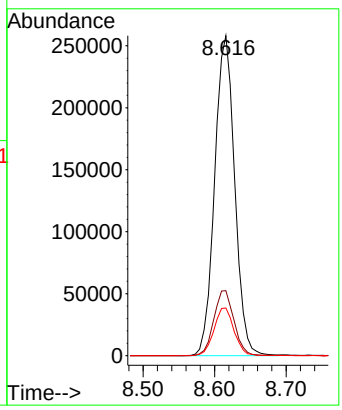


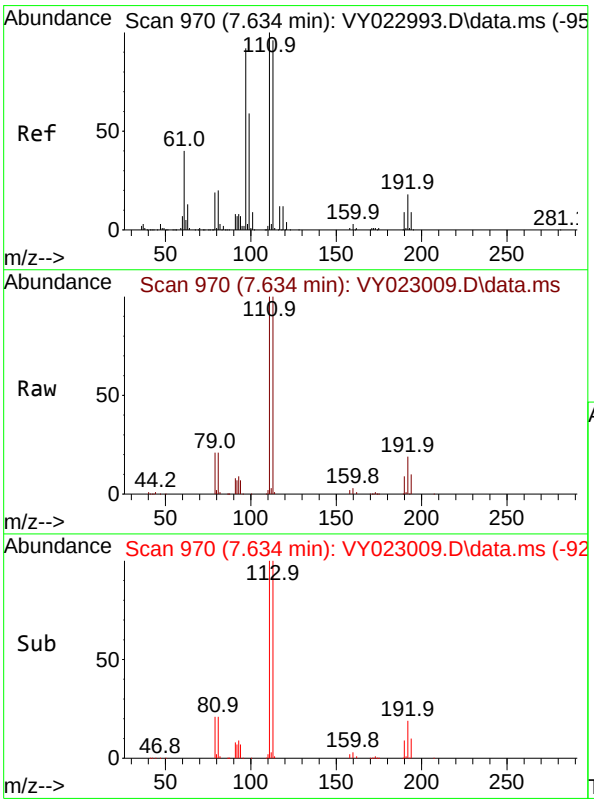
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-39-071725

Tgt Ion:114 Resp: 502315

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	38.8
88	14.9	0.0	30.2

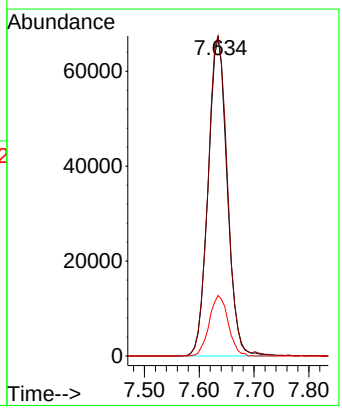


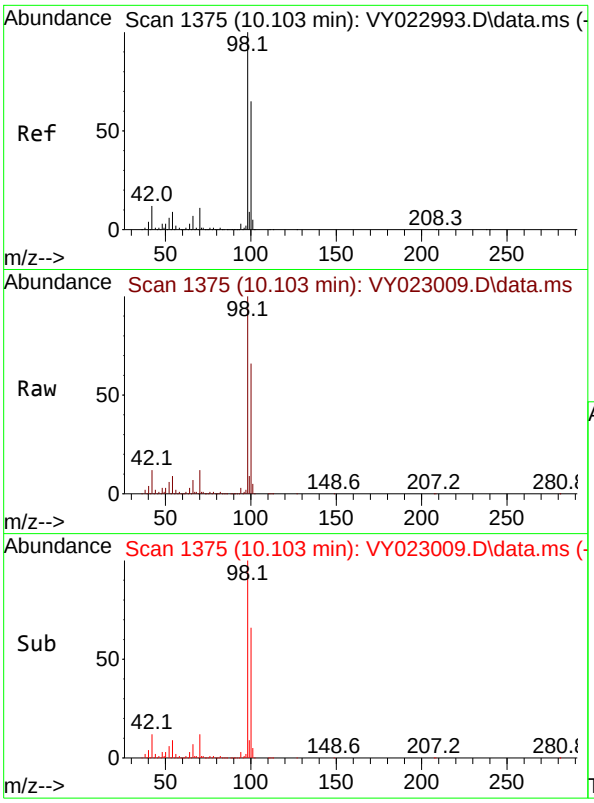


#35
Dibromofluoromethane
Concen: 50.837 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Tgt Ion:113 Resp: 161986

Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.2	124.8
192	18.9	15.3	22.9



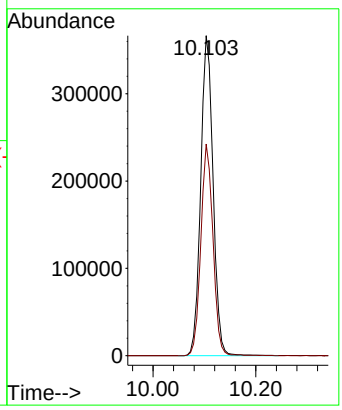


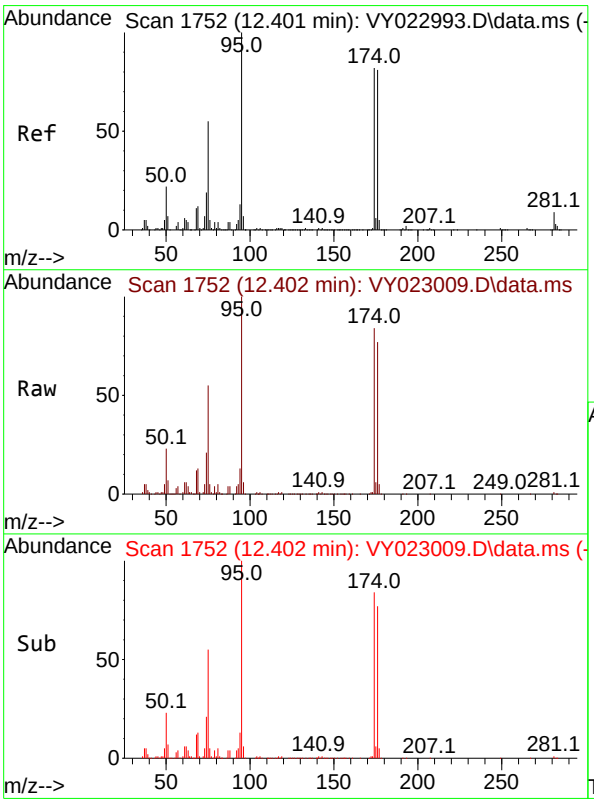
#50
Toluene-d8
Concen: 48.380 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-39-071725

Tgt Ion: 98 Resp: 611323

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.2

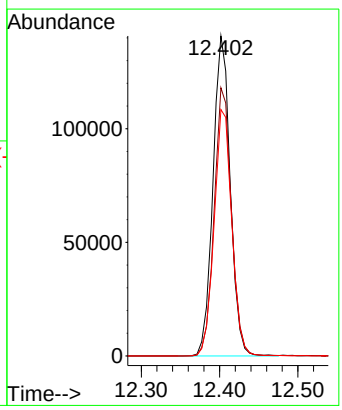


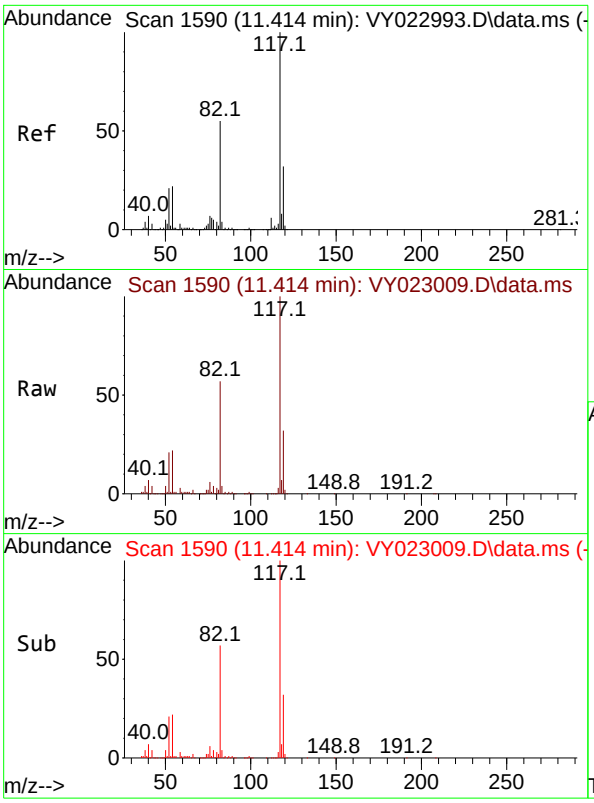


#62
4-Bromofluorobenzene
Concen: 54.214 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Tgt Ion: 95 Resp: 215640

Ion	Ratio	Lower	Upper
95	100		
174	84.1	0.0	170.8
176	79.0	0.0	163.6



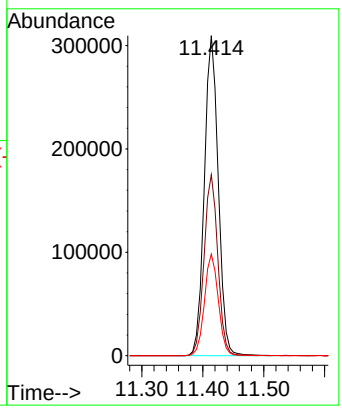


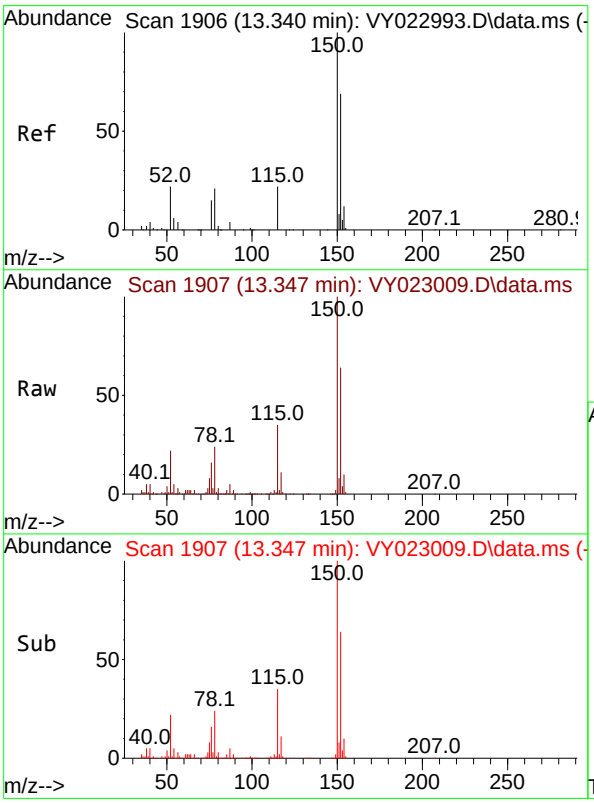
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-39-071725

Tgt Ion:117 Resp: 491116

Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.3	66.5
119	31.8	25.8	38.8

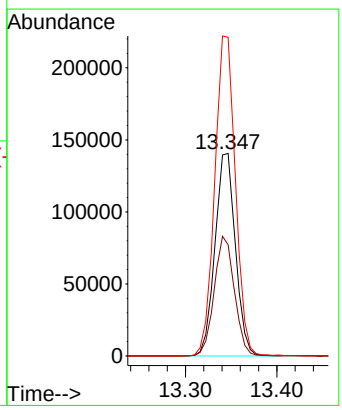




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023009.D
Acq: 18 Jul 2025 19:41

Tgt Ion:152 Resp: 218910

Ion	Ratio	Lower	Upper
152	100		
115	58.3	29.4	88.2
150	159.7	0.0	350.0



Raw Data: **VY023010.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-40-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.7
Sample Wt/Vol:	4.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023010.D	1	07/18/25 20:03	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0057	U	0.0016	0.0057	0.0071	mg/Kg
74-87-3	Chloromethane	0.0035	U	0.0016	0.0035	0.0071	mg/Kg
75-01-4	Vinyl Chloride	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
74-83-9	Bromomethane	0.0057	U	0.0015	0.0057	0.0071	mg/Kg
75-00-3	Chloroethane	0.0035	U	0.0018	0.0035	0.0071	mg/Kg
109-99-9	Tetrahydrofuran	0.018	U	0.0066	0.018	0.035	mg/Kg
75-69-4	Trichlorofluoromethane	0.0057	U	0.0017	0.0057	0.0071	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0035	U	0.0015	0.0035	0.0071	mg/Kg
75-35-4	1,1-Dichloroethene	0.0035	U	0.0014	0.0035	0.0071	mg/Kg
107-13-1	Acrylonitrile	0.018	U	0.0071	0.018	0.035	mg/Kg
67-64-1	Acetone	0.028	U	0.0067	0.028	0.035	mg/Kg
75-15-0	Carbon Disulfide	0.0057	U	0.0015	0.0057	0.0071	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0035	U	0.0010	0.0035	0.0071	mg/Kg
75-09-2	Methylene Chloride	0.011	U	0.0050	0.011	0.014	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
75-34-3	1,1-Dichloroethane	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
78-93-3	2-Butanone	0.028	U	0.0093	0.028	0.035	mg/Kg
56-23-5	Carbon Tetrachloride	0.0035	U	0.0014	0.0035	0.0071	mg/Kg
594-20-7	2,2-Dichloropropane	0.0057	U	0.0018	0.0057	0.0071	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
67-66-3	Chloroform	0.0057	U	0.0012	0.0057	0.0071	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0035	U	0.0013	0.0035	0.0071	mg/Kg
563-58-6	1,1-Dichloropropene	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
71-43-2	Benzene	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
107-06-2	1,2-Dichloroethane	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
79-01-6	Trichloroethene	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
78-87-5	1,2-Dichloropropane	0.0035	U	0.0013	0.0035	0.0071	mg/Kg
74-95-3	Dibromomethane	0.0035	U	0.0013	0.0035	0.0071	mg/Kg
75-27-4	Bromodichloromethane	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.018	U	0.0051	0.018	0.035	mg/Kg

Raw Data: **VY023010.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-40-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.7
Sample Wt/Vol:	4.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023010.D	1	07/18/25 20:03	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0035	U	0.00092	0.0035	0.0071	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0035	U	0.00088	0.0035	0.0071	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0035	U	0.0013	0.0035	0.0071	mg/Kg
142-28-9	1,3-Dichloropropane	0.0035	U	0.00096	0.0035	0.0071	mg/Kg
591-78-6	2-Hexanone	0.018	U	0.0052	0.018	0.035	mg/Kg
124-48-1	Dibromochloromethane	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
106-93-4	1,2-Dibromoethane	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
127-18-4	Tetrachloroethene	0.0035	U	0.0015	0.0035	0.0071	mg/Kg
108-90-7	Chlorobenzene	0.0035	U	0.0013	0.0035	0.0071	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
100-41-4	Ethyl Benzene	0.0035	U	0.00095	0.0035	0.0071	mg/Kg
1330-20-7	Total Xylenes	0.011	U	0.0030	0.011	0.021	mg/Kg
179601-23-1	m/p-Xylenes	0.0071	U	0.0018	0.0071	0.014	mg/Kg
95-47-6	o-Xylene	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
100-42-5	Styrene	0.0035	U	0.0010	0.0035	0.0071	mg/Kg
75-25-2	Bromoform	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
98-82-8	Isopropylbenzene	0.0035	U	0.0011	0.0035	0.0071	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0035	U	0.0017	0.0035	0.0071	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0057	U	0.0018	0.0057	0.0071	mg/Kg
108-86-1	Bromobenzene	0.0035	U	0.0017	0.0035	0.0071	mg/Kg
103-65-1	n-propylbenzene	0.0035	U	0.0010	0.0035	0.0071	mg/Kg
95-49-8	2-Chlorotoluene	0.0035	U	0.00096	0.0035	0.0071	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0035	U	0.0012	0.0035	0.0071	mg/Kg
106-43-4	4-Chlorotoluene	0.0035	U	0.0017	0.0035	0.0071	mg/Kg
98-06-6	tert-Butylbenzene	0.0035	U	0.00095	0.0035	0.0071	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0035	U	0.00091	0.0035	0.0071	mg/Kg
135-98-8	sec-Butylbenzene	0.0035	U	0.00094	0.0035	0.0071	mg/Kg
99-87-6	p-Isopropyltoluene	0.0035	U	0.00088	0.0035	0.0071	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0035	U	0.0024	0.0035	0.0071	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0035	U	0.0022	0.0035	0.0071	mg/Kg

Raw Data: **VY023010.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-40-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	80.7
Sample Wt/Vol:	4.37 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023010.D	1	07/18/25 20:03	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0035	U	0.0021	0.0035	0.0071	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0035	U	0.0021	0.0035	0.0071	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0057	U	0.0026	0.0057	0.0071	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0057	U	0.0042	0.0057	0.0071	mg/Kg
87-68-3	Hexachlorobutadiene	0.0035	U	0.0027	0.0035	0.0071	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0057	U	0.0045	0.0057	0.0071	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0035	U	0.0015	0.0035	0.0071	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	68.1		71 - 136		136%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		78 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	48.6		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		79 - 119		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	269000	7.707				
540-36-3	1,4-Difluorobenzene	484000	8.616				
3114-55-4	Chlorobenzene-d5	470000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	211000	13.341				

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\VY071825\
Data File : VY023010.D
Acq On : 18 Jul 2025 20:03
Operator : SY/MD
Sample : Q2639-05
Misc : 4.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-40-071725

Quant Time: Jul 19 02:16:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

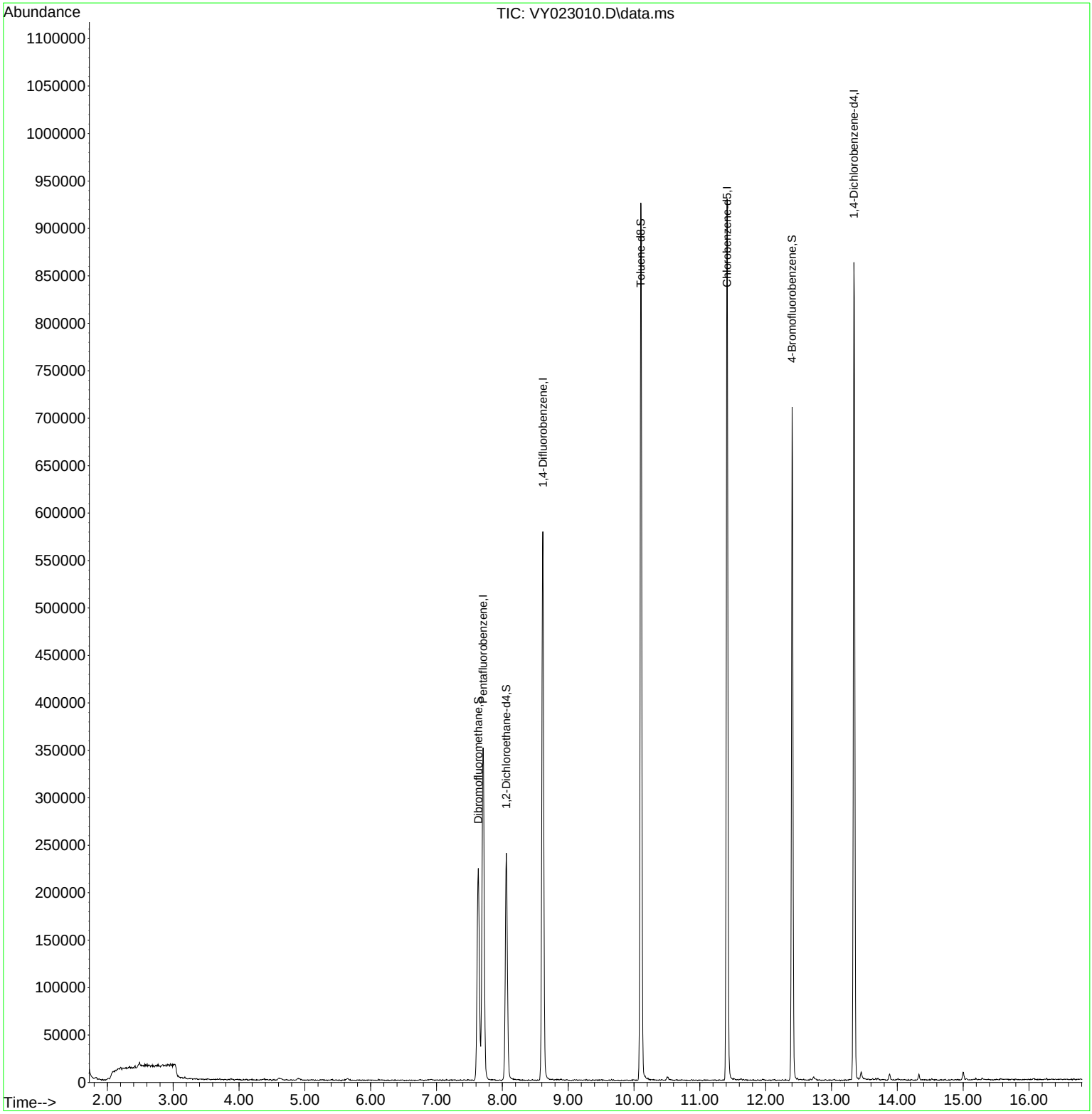
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	268551	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	484234	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	470038	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	210725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	185246	68.140	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 136.280%			
35) Dibromofluoromethane	7.634	113	158814	51.703	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.400%			
50) Toluene-d8	10.103	98	591711	48.576	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.160%			
62) 4-Bromofluorobenzene	12.402	95	207302	54.064	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.120%			
Target Compounds						Qvalue

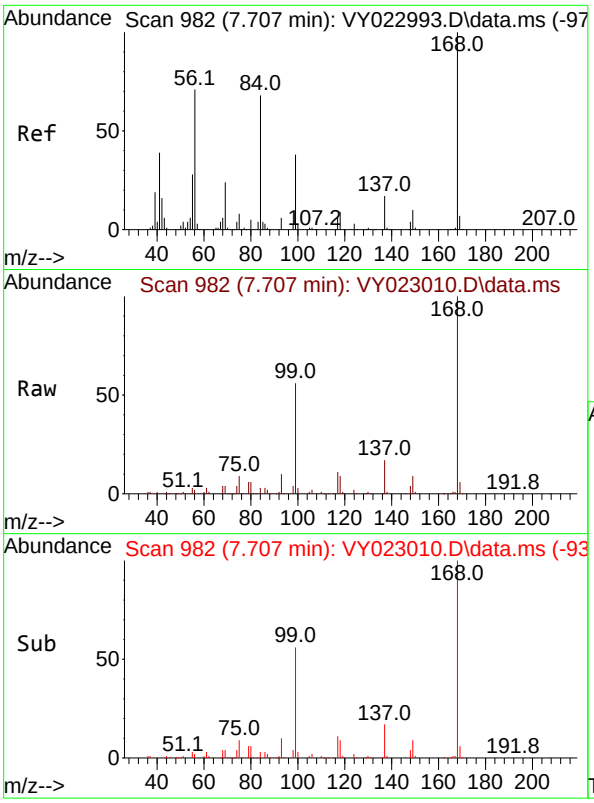
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023010.D
Acq On : 18 Jul 2025 20:03
Operator : SY/MD
Sample : Q2639-05
Misc : 4.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-40-071725

Quant Time: Jul 19 02:16:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



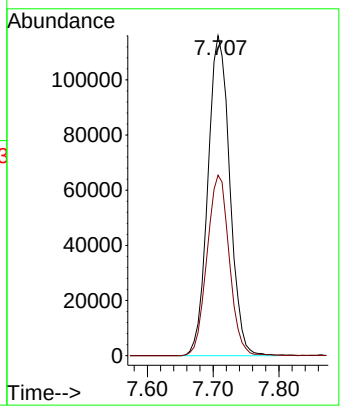


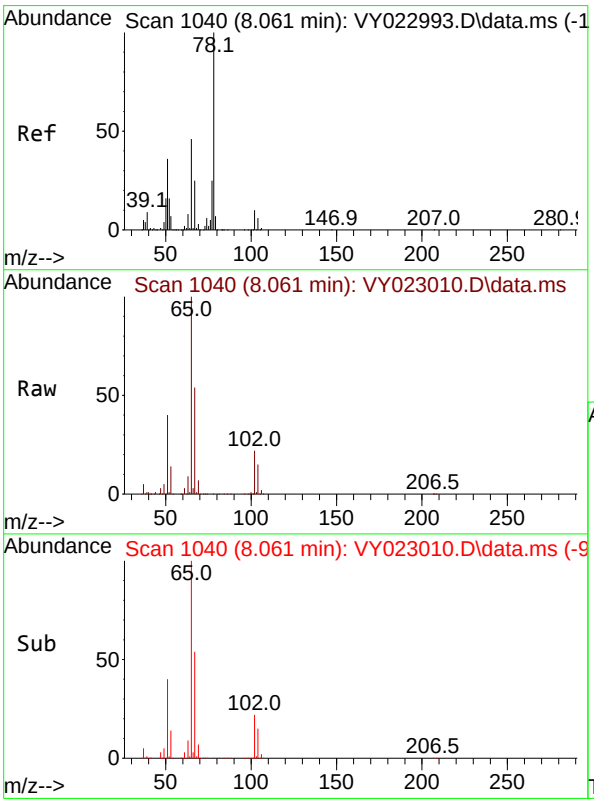
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-40-071725

Tgt Ion:168 Resp: 268551

Ion	Ratio	Lower	Upper
168	100		
99	56.4	44.4	66.6

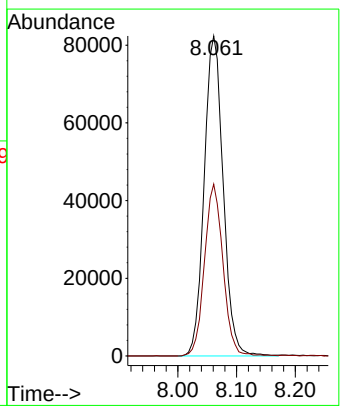


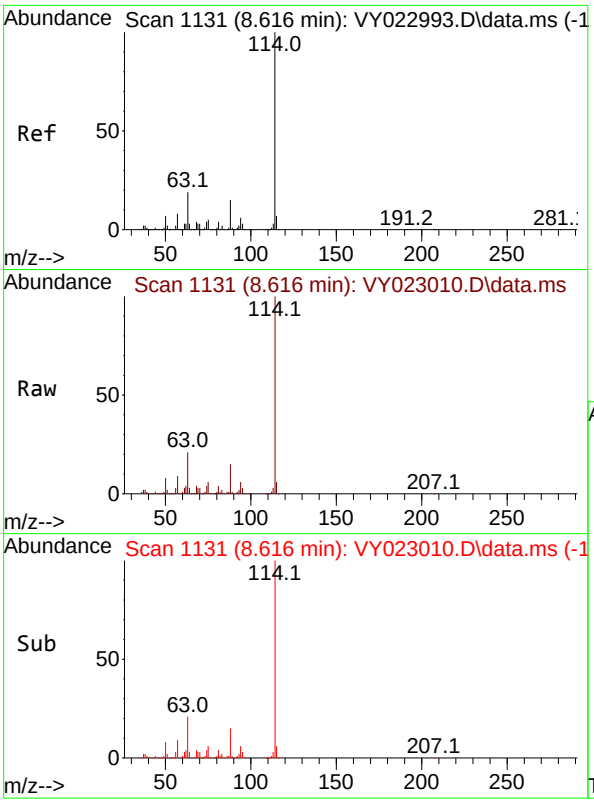


#33
1,2-Dichloroethane-d4
Concen: 68.140 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Tgt Ion: 65 Resp: 185246

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	107.4



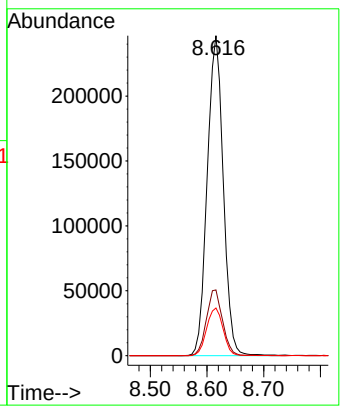


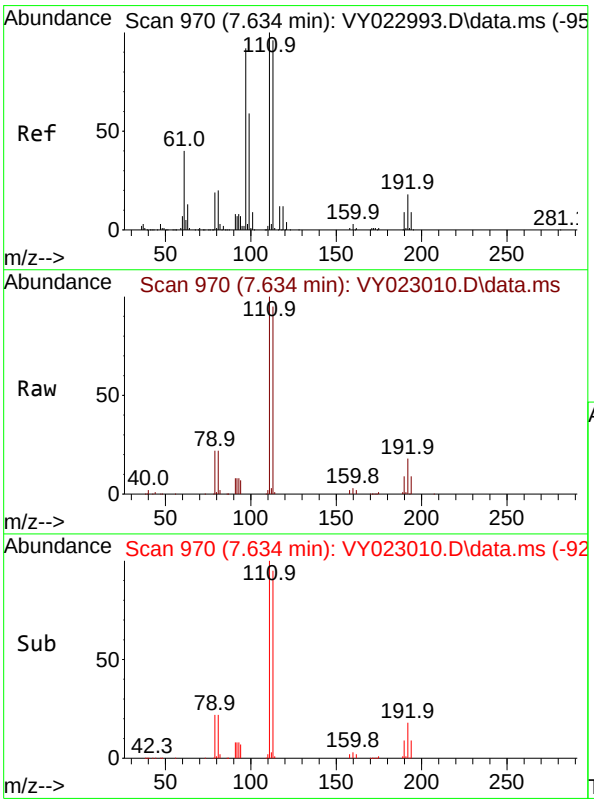
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-40-071725

Tgt Ion:114 Resp: 484234

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	38.8
88	14.9	0.0	30.2

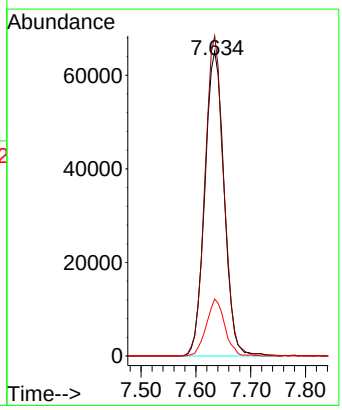


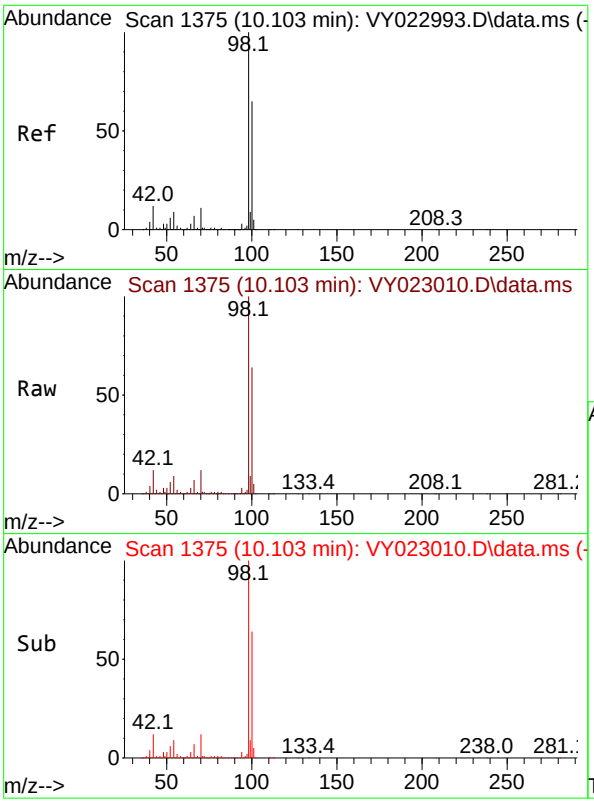


#35
Dibromofluoromethane
Concen: 51.703 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Tgt Ion:113 Resp: 158814

Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.2	124.8
192	18.0	15.3	22.9



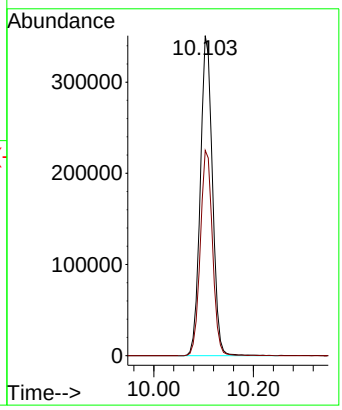


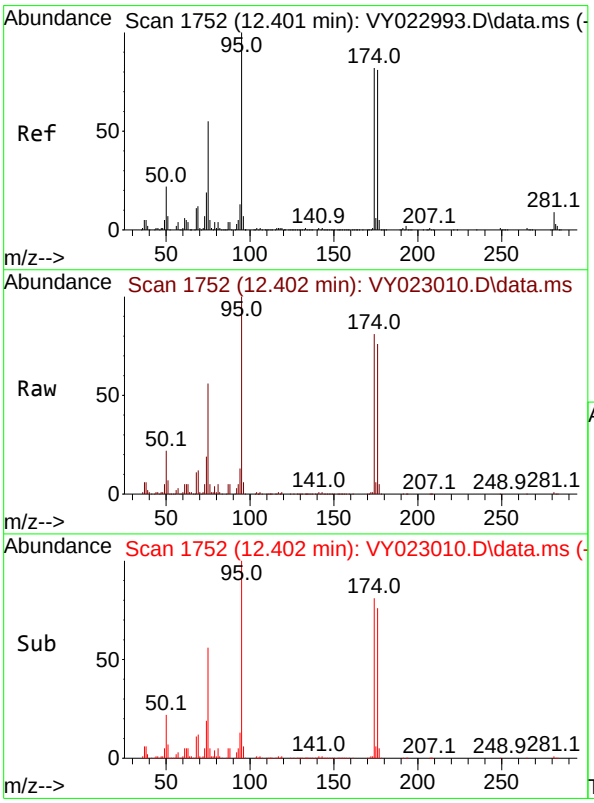
#50
Toluene-d8
Concen: 48.576 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-40-071725

Tgt Ion: 98 Resp: 591711

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2

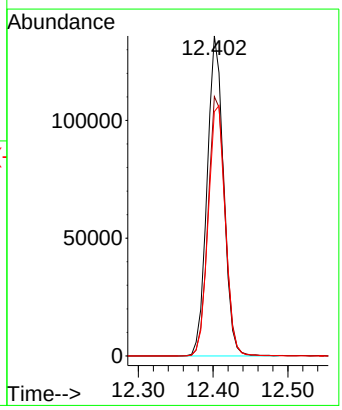


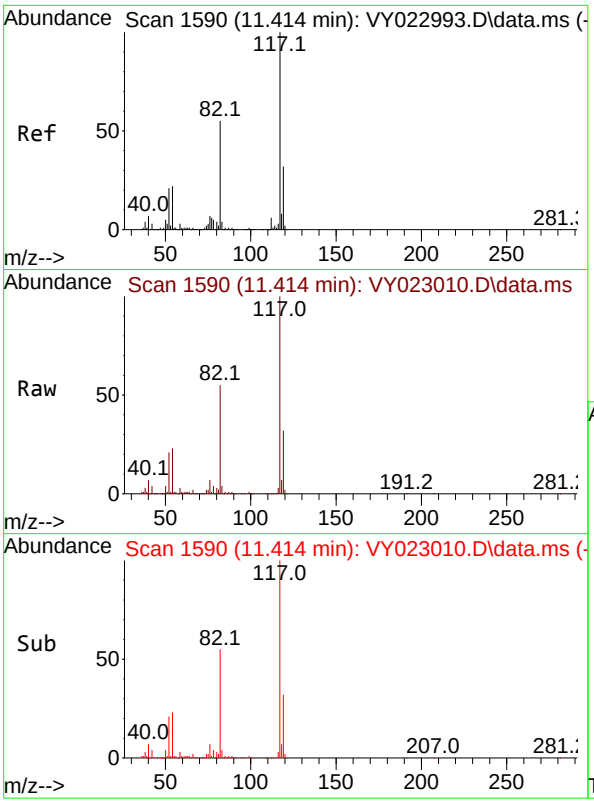


#62
4-Bromofluorobenzene
Concen: 54.064 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Tgt Ion: 95 Resp: 207302

Ion	Ratio	Lower	Upper
95	100		
174	84.5	0.0	170.8
176	81.3	0.0	163.6



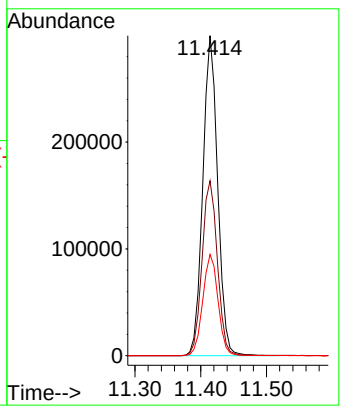


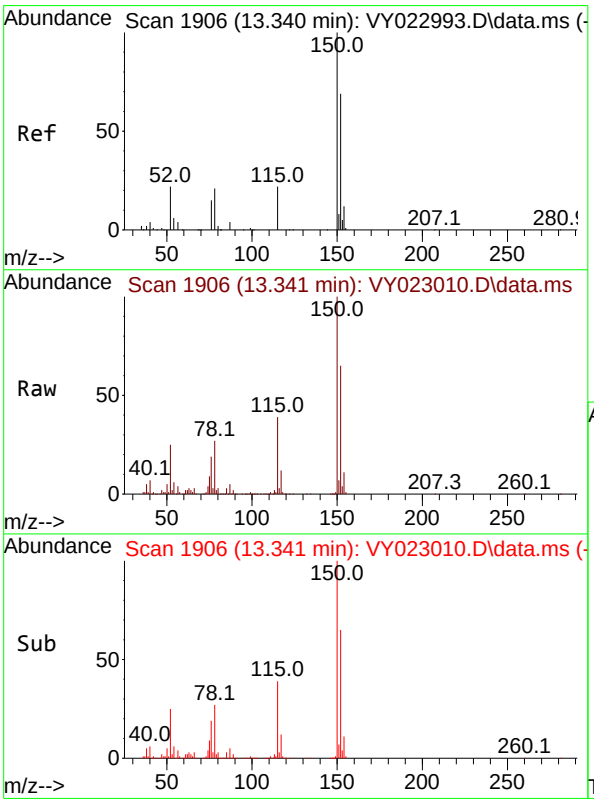
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-40-071725

Tgt Ion:117 Resp: 470038

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.3	66.5
119	31.6	25.8	38.8

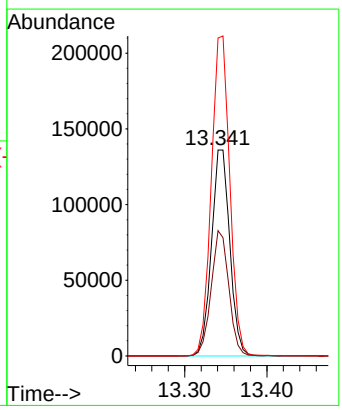




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.341 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023010.D
Acq: 18 Jul 2025 20:03

Tgt Ion:152 Resp: 210725

Ion	Ratio	Lower	Upper
152	100		
115	58.7	29.4	88.2
150	156.8	0.0	350.0



Raw Data: **VY023020.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-41-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	4.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023020.D	1	07/21/25 12:39	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0058	U	0.0016	0.0058	0.0072	mg/Kg
74-87-3	Chloromethane	0.0036	U	0.0016	0.0036	0.0072	mg/Kg
75-01-4	Vinyl Chloride	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
74-83-9	Bromomethane	0.0058	U	0.0015	0.0058	0.0072	mg/Kg
75-00-3	Chloroethane	0.0036	U	0.0018	0.0036	0.0072	mg/Kg
109-99-9	Tetrahydrofuran	0.018	U	0.0067	0.018	0.036	mg/Kg
75-69-4	Trichlorofluoromethane	0.0058	U	0.0017	0.0058	0.0072	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0036	U	0.0015	0.0036	0.0072	mg/Kg
75-35-4	1,1-Dichloroethene	0.0036	U	0.0014	0.0036	0.0072	mg/Kg
107-13-1	Acrylonitrile	0.018	U	0.0072	0.018	0.036	mg/Kg
67-64-1	Acetone	0.029	U	0.0068	0.029	0.036	mg/Kg
75-15-0	Carbon Disulfide	0.0058	U	0.0015	0.0058	0.0072	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0036	U	0.0010	0.0036	0.0072	mg/Kg
75-09-2	Methylene Chloride	0.012	U	0.0051	0.012	0.014	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0036	U	0.0012	0.0036	0.0072	mg/Kg
75-34-3	1,1-Dichloroethane	0.0036	U	0.0012	0.0036	0.0072	mg/Kg
78-93-3	2-Butanone	0.029	U	0.0094	0.029	0.036	mg/Kg
56-23-5	Carbon Tetrachloride	0.0036	U	0.0014	0.0036	0.0072	mg/Kg
594-20-7	2,2-Dichloropropane	0.0058	U	0.0018	0.0058	0.0072	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
67-66-3	Chloroform	0.0058	U	0.0012	0.0058	0.0072	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
563-58-6	1,1-Dichloropropene	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
71-43-2	Benzene	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
107-06-2	1,2-Dichloroethane	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
79-01-6	Trichloroethene	0.0036	U	0.0012	0.0036	0.0072	mg/Kg
78-87-5	1,2-Dichloropropane	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
74-95-3	Dibromomethane	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
75-27-4	Bromodichloromethane	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.018	U	0.0051	0.018	0.036	mg/Kg

Raw Data: **VY023020.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-41-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	4.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023020.D	1	07/21/25 12:39	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0036	U	0.00093	0.0036	0.0072	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0036	U	0.00089	0.0036	0.0072	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
142-28-9	1,3-Dichloropropane	0.0036	U	0.00098	0.0036	0.0072	mg/Kg
591-78-6	2-Hexanone	0.018	U	0.0053	0.018	0.036	mg/Kg
124-48-1	Dibromochloromethane	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
106-93-4	1,2-Dibromoethane	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
127-18-4	Tetrachloroethene	0.0036	U	0.0015	0.0036	0.0072	mg/Kg
108-90-7	Chlorobenzene	0.0036	U	0.0013	0.0036	0.0072	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
100-41-4	Ethyl Benzene	0.0036	U	0.00096	0.0036	0.0072	mg/Kg
1330-20-7	Total Xylenes	0.011	U	0.0030	0.011	0.022	mg/Kg
179601-23-1	m/p-Xylenes	0.0072	U	0.0018	0.0072	0.014	mg/Kg
95-47-6	o-Xylene	0.0036	U	0.0012	0.0036	0.0072	mg/Kg
100-42-5	Styrene	0.0036	U	0.0010	0.0036	0.0072	mg/Kg
75-25-2	Bromoform	0.0036	U	0.0012	0.0036	0.0072	mg/Kg
98-82-8	Isopropylbenzene	0.0036	U	0.0011	0.0036	0.0072	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0036	U	0.0017	0.0036	0.0072	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0058	U	0.0018	0.0058	0.0072	mg/Kg
108-86-1	Bromobenzene	0.0036	U	0.0017	0.0036	0.0072	mg/Kg
103-65-1	n-propylbenzene	0.0036	U	0.0010	0.0036	0.0072	mg/Kg
95-49-8	2-Chlorotoluene	0.0036	U	0.00098	0.0036	0.0072	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0036	U	0.0012	0.0036	0.0072	mg/Kg
106-43-4	4-Chlorotoluene	0.0036	U	0.0018	0.0036	0.0072	mg/Kg
98-06-6	tert-Butylbenzene	0.0036	U	0.00096	0.0036	0.0072	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0036	U	0.00092	0.0036	0.0072	mg/Kg
135-98-8	sec-Butylbenzene	0.0036	U	0.00095	0.0036	0.0072	mg/Kg
99-87-6	p-Isopropyltoluene	0.0036	U	0.00089	0.0036	0.0072	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0036	U	0.0025	0.0036	0.0072	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0036	U	0.0022	0.0036	0.0072	mg/Kg

Raw Data: **VY023020.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-41-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	4.24 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023020.D	1	07/21/25 12:39	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0036	U	0.0021	0.0036	0.0072	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0036	U	0.0021	0.0036	0.0072	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0058	U	0.0026	0.0058	0.0072	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0058	U	0.0043	0.0058	0.0072	mg/Kg
87-68-3	Hexachlorobutadiene	0.0036	U	0.0027	0.0036	0.0072	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0058	U	0.0046	0.0058	0.0072	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0036	U	0.0015	0.0036	0.0072	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.0		71 - 136		118%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		78 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	48.7		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		79 - 119		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	313000	7.707				
540-36-3	1,4-Difluorobenzene	608000	8.615				
3114-55-4	Chlorobenzene-d5	609000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	266000	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\VY072125\
Data File : VY023020.D
Acq On : 21 Jul 2025 12:39
Operator : SY/MD
Sample : Q2639-07
Misc : 4.24g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-41-071725

Quant Time: Jul 22 04:50:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

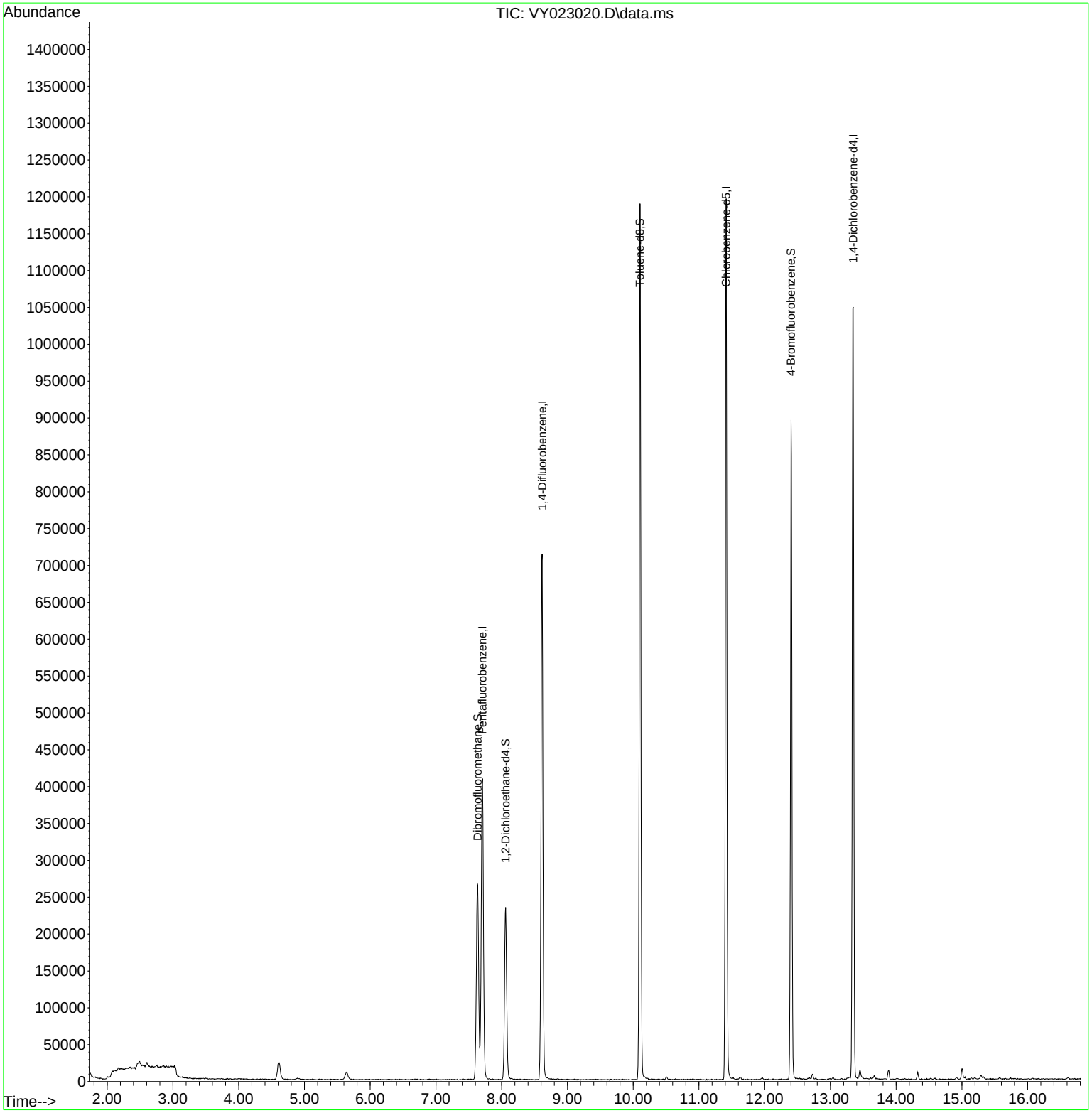
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	312888	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	608344	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	609203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	265662	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	186874	58.998	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.000%			
35) Dibromofluoromethane	7.634	113	190768	49.435	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.880%			
50) Toluene-d8	10.103	98	745492	48.715	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.440%			
62) 4-Bromofluorobenzene	12.401	95	262966	54.589	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.180%			
Target Compounds						Qvalue

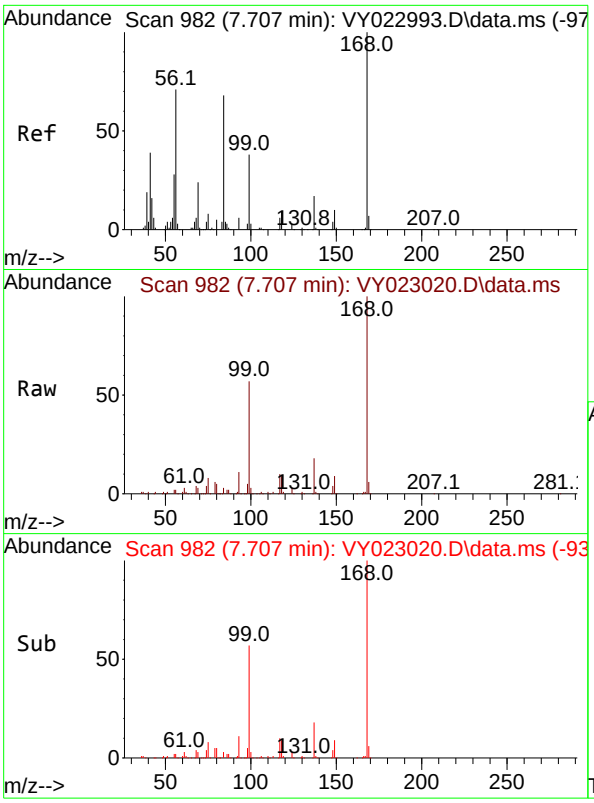
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023020.D
Acq On : 21 Jul 2025 12:39
Operator : SY/MD
Sample : Q2639-07
Misc : 4.24g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-41-071725

Quant Time: Jul 22 04:50:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



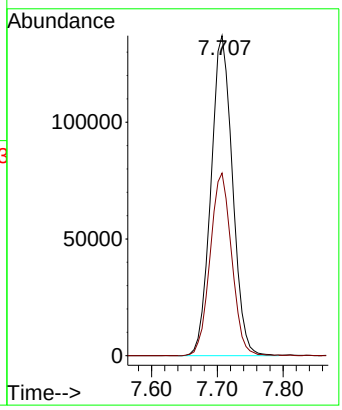


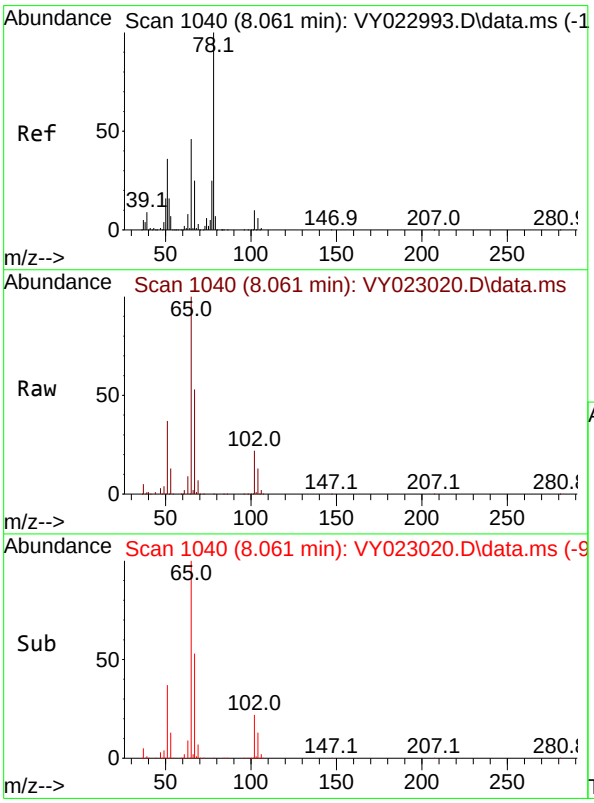
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-41-071725

Tgt Ion:168 Resp: 312888

Ion	Ratio	Lower	Upper
168	100		
99	57.0	44.4	66.6

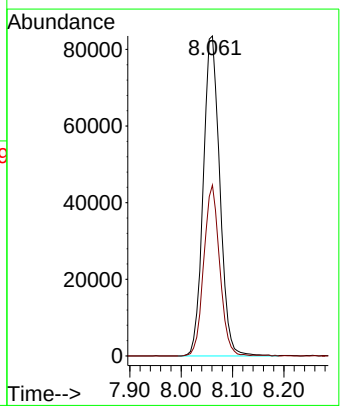


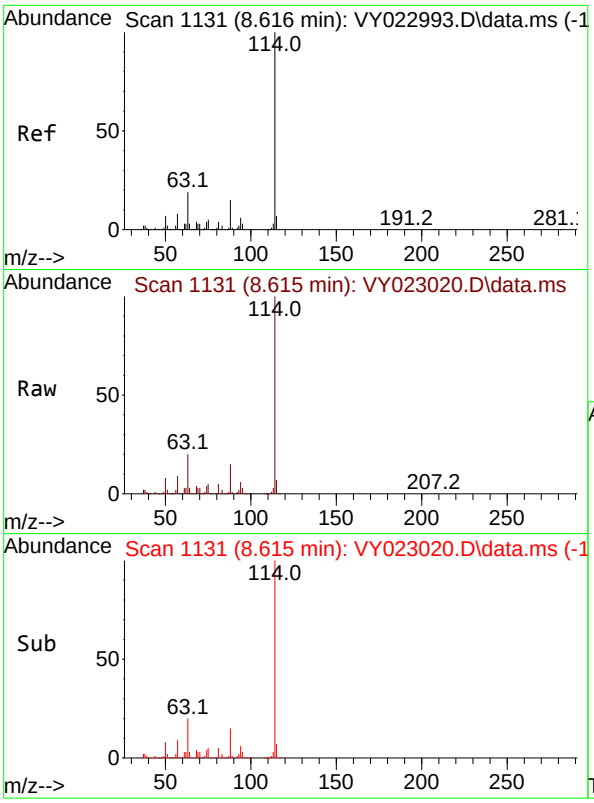


#33
1,2-Dichloroethane-d4
Concen: 58.998 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Tgt Ion: 65 Resp: 186874

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	107.4



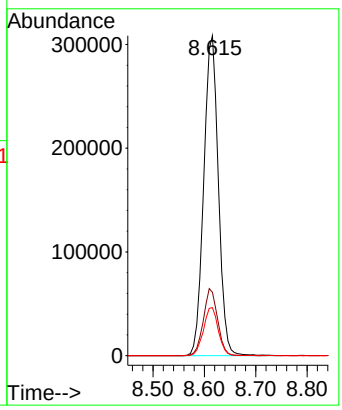


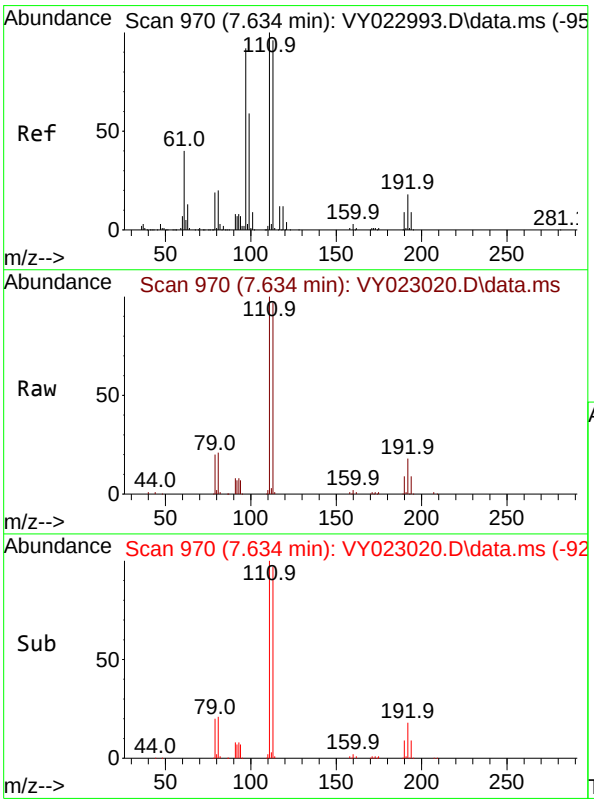
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-41-071725

Tgt Ion:114 Resp: 608344

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.8
88	15.0	0.0	30.2

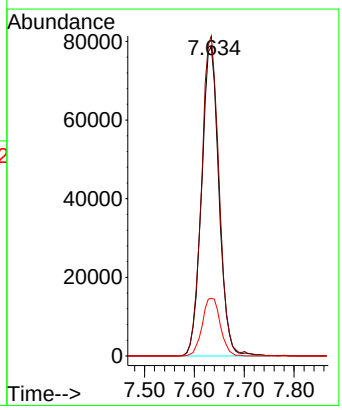


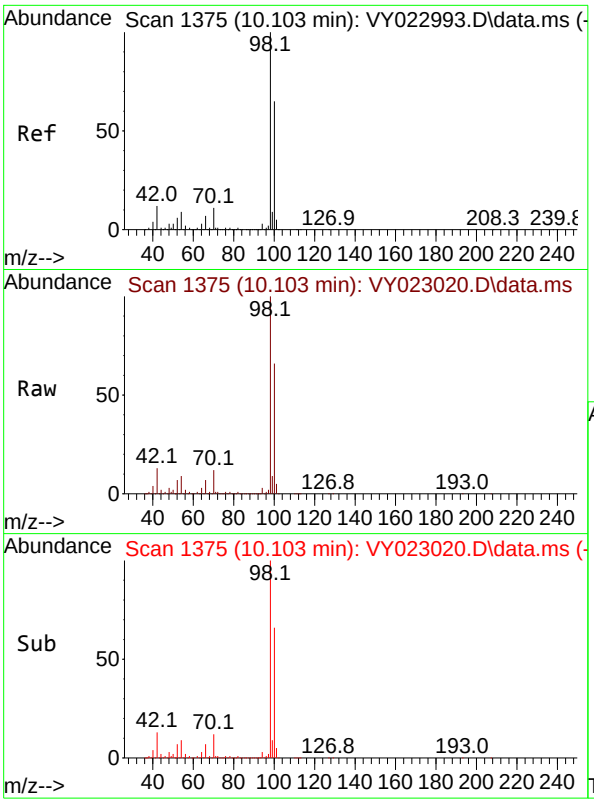


#35
Dibromofluoromethane
Concen: 49.435 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Tgt Ion:113 Resp: 190768

Ion	Ratio	Lower	Upper
113	100		
111	104.2	83.2	124.8
192	19.4	15.3	22.9



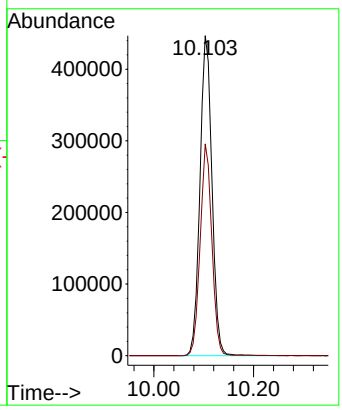


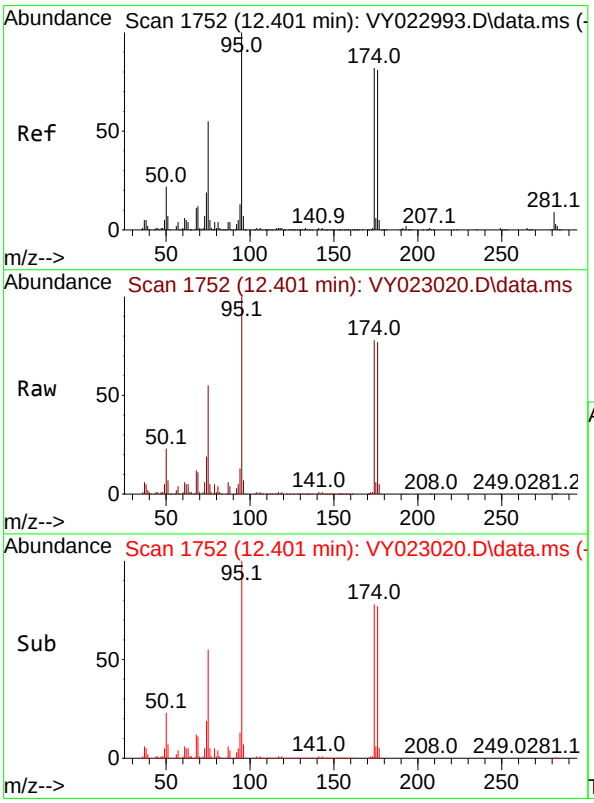
#50
Toluene-d8
Concen: 48.715 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-41-071725

Tgt Ion: 98 Resp: 745492

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2

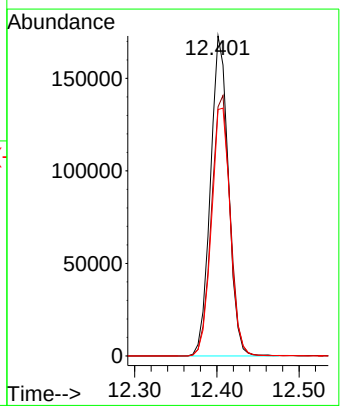


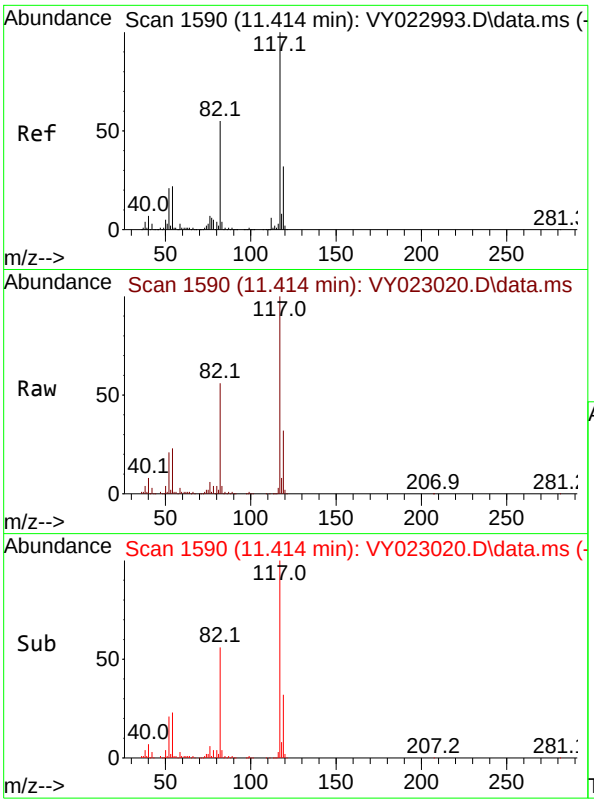


#62
4-Bromofluorobenzene
Concen: 54.589 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Tgt Ion: 95 Resp: 262966

Ion	Ratio	Lower	Upper
95	100		
174	84.9	0.0	170.8
176	81.0	0.0	163.6



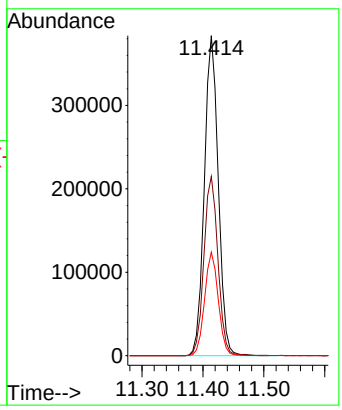


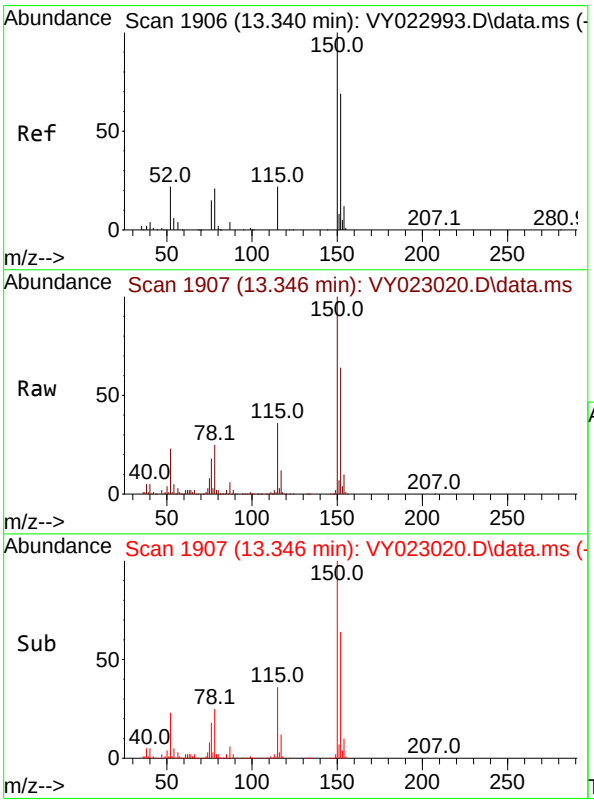
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-41-071725

Tgt Ion:117 Resp: 609203

Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	32.4	25.8	38.8

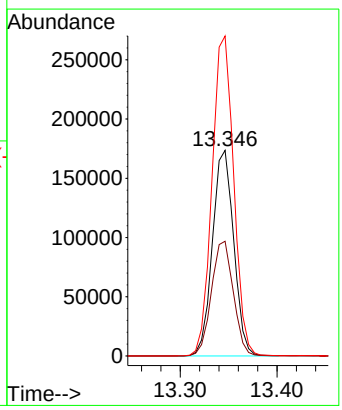




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023020.D
Acq: 21 Jul 2025 12:39

Tgt Ion:152 Resp: 265662

Ion	Ratio	Lower	Upper
152	100		
115	57.5	29.4	88.2
150	158.2	0.0	350.0



Raw Data: **VY023021.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-42-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	60.3
Sample Wt/Vol:	4.53 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023021.D	1	07/21/25 13:03	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0073	U	0.0021	0.0073	0.0092	mg/Kg
74-87-3	Chloromethane	0.0046	U	0.0021	0.0046	0.0092	mg/Kg
75-01-4	Vinyl Chloride	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
74-83-9	Bromomethane	0.0073	U	0.0020	0.0073	0.0092	mg/Kg
75-00-3	Chloroethane	0.0046	U	0.0023	0.0046	0.0092	mg/Kg
109-99-9	Tetrahydrofuran	0.023	U	0.0085	0.023	0.046	mg/Kg
75-69-4	Trichlorofluoromethane	0.0073	U	0.0022	0.0073	0.0092	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0046	U	0.0019	0.0046	0.0092	mg/Kg
75-35-4	1,1-Dichloroethene	0.0046	U	0.0018	0.0046	0.0092	mg/Kg
107-13-1	Acrylonitrile	0.023	U	0.0091	0.023	0.046	mg/Kg
67-64-1	Acetone	0.037	U	0.0087	0.037	0.046	mg/Kg
75-15-0	Carbon Disulfide	0.0073	U	0.0019	0.0073	0.0092	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0046	U	0.0013	0.0046	0.0092	mg/Kg
75-09-2	Methylene Chloride	0.015	U	0.0065	0.015	0.018	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
75-34-3	1,1-Dichloroethane	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
78-93-3	2-Butanone	0.037	U	0.012	0.037	0.046	mg/Kg
56-23-5	Carbon Tetrachloride	0.0046	U	0.0018	0.0046	0.0092	mg/Kg
594-20-7	2,2-Dichloropropane	0.0073	U	0.0023	0.0073	0.0092	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
67-66-3	Chloroform	0.0073	U	0.0015	0.0073	0.0092	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
563-58-6	1,1-Dichloropropene	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
71-43-2	Benzene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
107-06-2	1,2-Dichloroethane	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
79-01-6	Trichloroethene	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
78-87-5	1,2-Dichloropropane	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
74-95-3	Dibromomethane	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
75-27-4	Bromodichloromethane	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.023	U	0.0066	0.023	0.046	mg/Kg

Raw Data: **VY023021.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-42-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	60.3
Sample Wt/Vol:	4.53 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023021.D	1	07/21/25 13:03	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0046	U	0.0011	0.0046	0.0092	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
142-28-9	1,3-Dichloropropane	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
591-78-6	2-Hexanone	0.023	U	0.0068	0.023	0.046	mg/Kg
124-48-1	Dibromochloromethane	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
106-93-4	1,2-Dibromoethane	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
127-18-4	Tetrachloroethene	0.0046	U	0.0019	0.0046	0.0092	mg/Kg
108-90-7	Chlorobenzene	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
100-41-4	Ethyl Benzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
1330-20-7	Total Xylenes	0.014	U	0.0038	0.014	0.028	mg/Kg
179601-23-1	m/p-Xylenes	0.0092	U	0.0023	0.0092	0.018	mg/Kg
95-47-6	o-Xylene	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
100-42-5	Styrene	0.0046	U	0.0013	0.0046	0.0092	mg/Kg
75-25-2	Bromoform	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
98-82-8	Isopropylbenzene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0046	U	0.0022	0.0046	0.0092	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0073	U	0.0023	0.0073	0.0092	mg/Kg
108-86-1	Bromobenzene	0.0046	U	0.0022	0.0046	0.0092	mg/Kg
103-65-1	n-propylbenzene	0.0046	U	0.0013	0.0046	0.0092	mg/Kg
95-49-8	2-Chlorotoluene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
106-43-4	4-Chlorotoluene	0.0046	U	0.0022	0.0046	0.0092	mg/Kg
98-06-6	tert-Butylbenzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
135-98-8	sec-Butylbenzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
99-87-6	p-Isopropyltoluene	0.0046	U	0.0011	0.0046	0.0092	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0046	U	0.0031	0.0046	0.0092	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0046	U	0.0029	0.0046	0.0092	mg/Kg

Raw Data: **VY023021.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-42-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	60.3
Sample Wt/Vol:	4.53 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023021.D	1	07/21/25 13:03	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0046	U	0.0027	0.0046	0.0092	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0046	U	0.0027	0.0046	0.0092	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0073	U	0.0034	0.0073	0.0092	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0073	U	0.0054	0.0073	0.0092	mg/Kg
87-68-3	Hexachlorobutadiene	0.0046	U	0.0035	0.0046	0.0092	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0073	U	0.0058	0.0073	0.0092	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0046	U	0.0019	0.0046	0.0092	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.8		71 - 136		110%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		78 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	48.1		85 - 116		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		79 - 119		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	306000	7.707				
540-36-3	1,4-Difluorobenzene	567000	8.609				
3114-55-4	Chlorobenzene-d5	540000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	222000	13.34				

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\VY072125\
Data File : VY023021.D
Acq On : 21 Jul 2025 13:03
Operator : SY/MD
Sample : Q2639-09
Misc : 4.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

Quant Time: Jul 22 04:50:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	305730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	566544	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	540204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	221582	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	169589	54.794	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.580%			
35) Dibromofluoromethane	7.634	113	177965	49.520	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.040%			
50) Toluene-d8	10.103	98	686049	48.138	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.280%			
62) 4-Bromofluorobenzene	12.401	95	229089	51.065	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.140%			

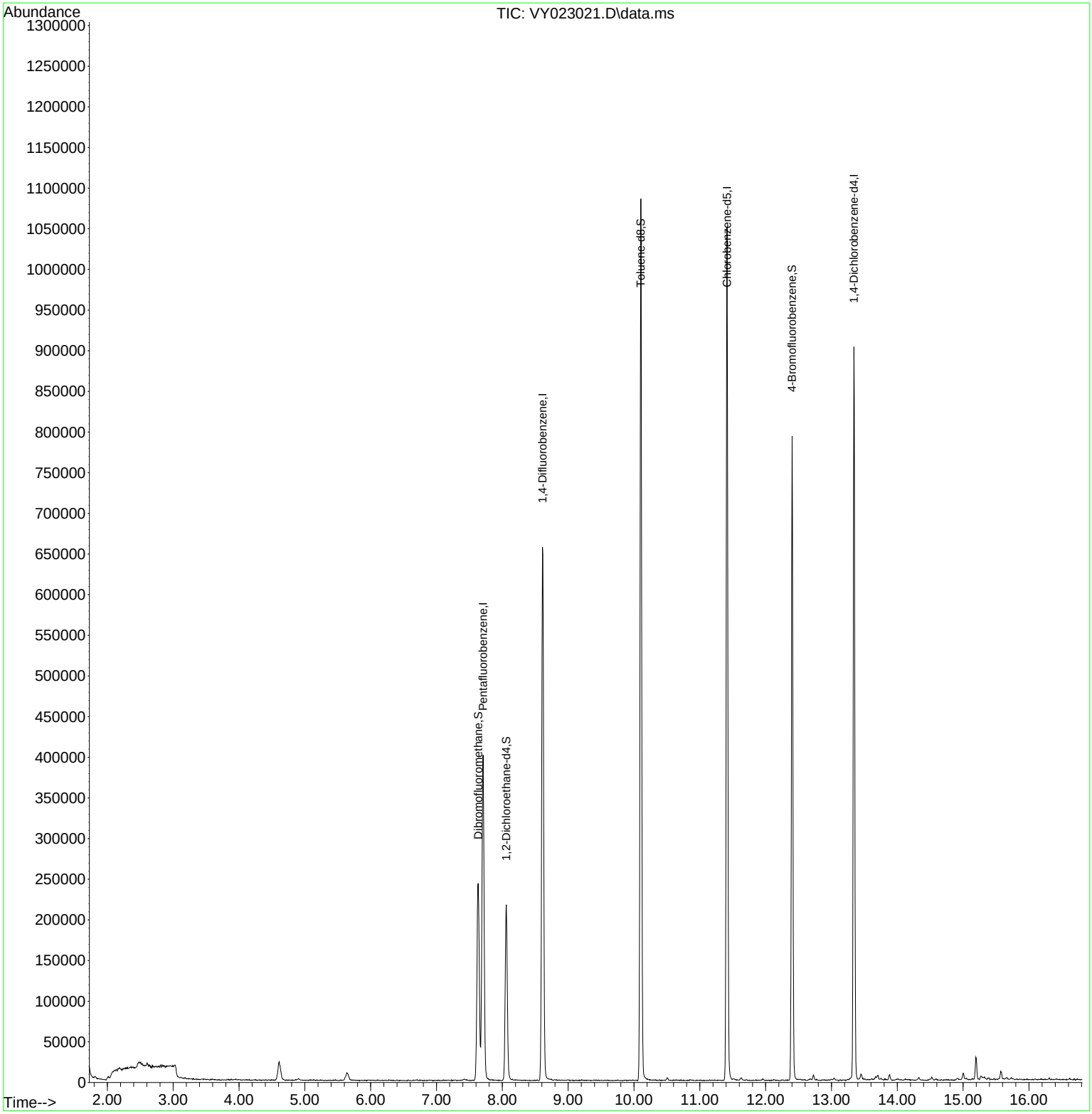
Target Compounds Qvalue

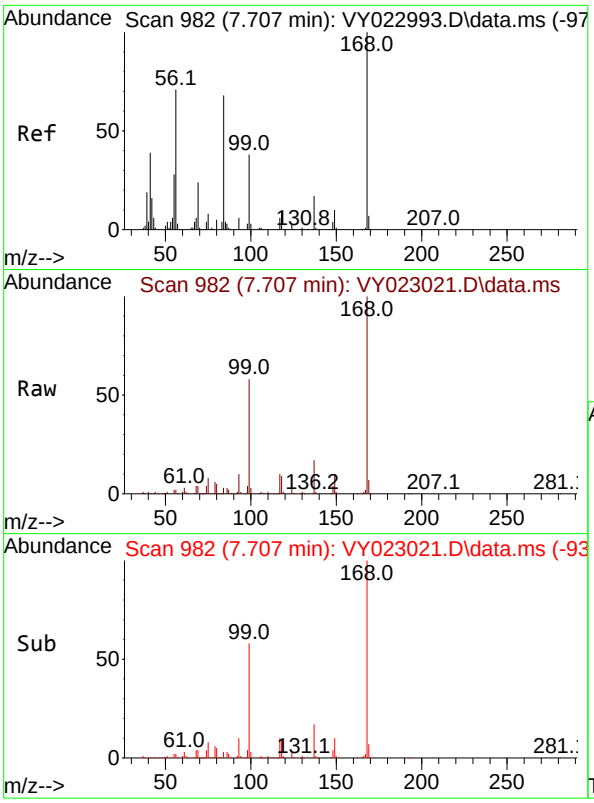
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023021.D
Acq On : 21 Jul 2025 13:03
Operator : SY/MD
Sample : Q2639-09
Misc : 4.53g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

Quant Time: Jul 22 04:50:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



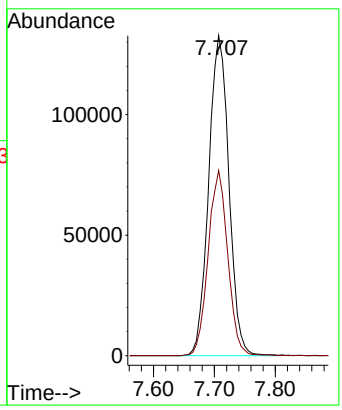


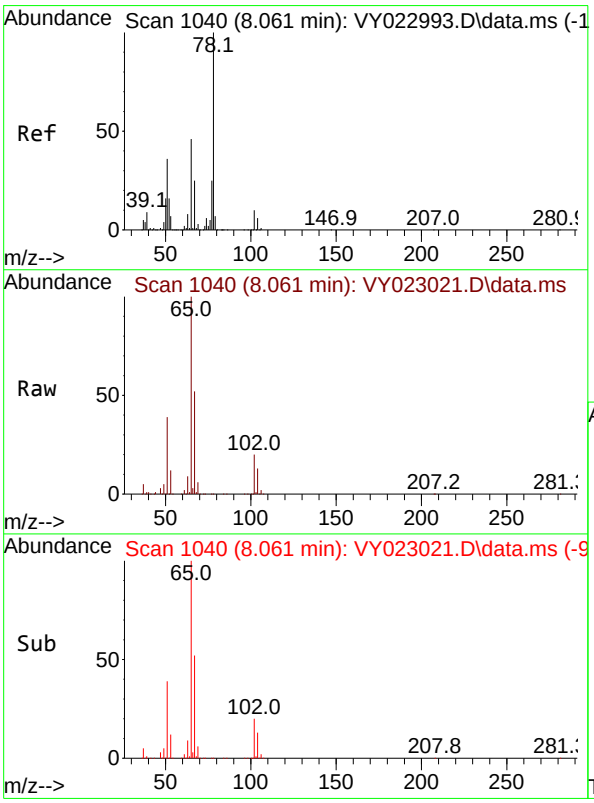
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

Tgt Ion:168 Resp: 305730

Ion	Ratio	Lower	Upper
168	100		
99	57.9	44.4	66.6

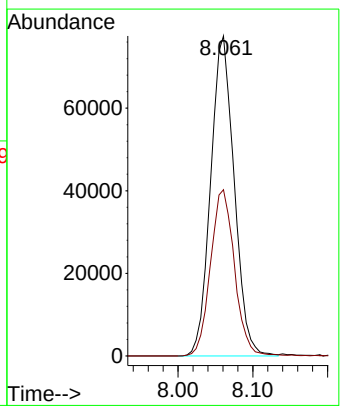


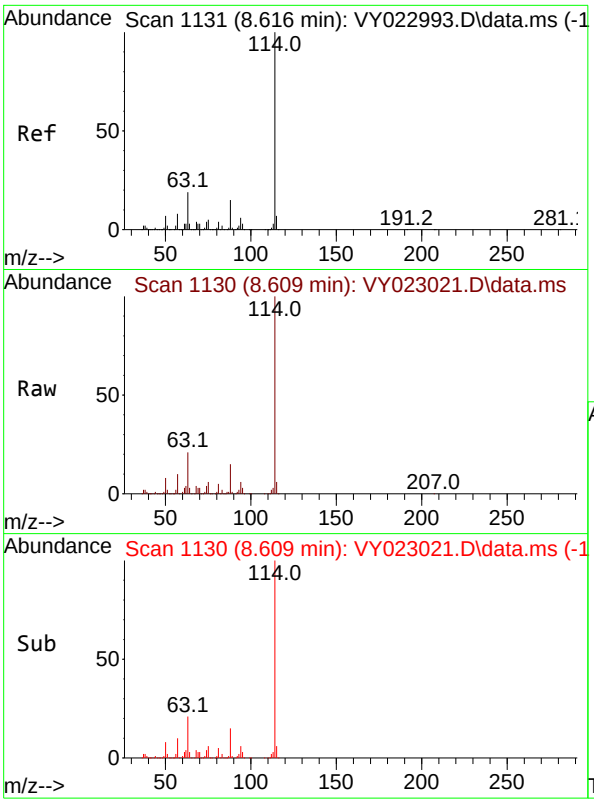


#33
1,2-Dichloroethane-d4
Concen: 54.794 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Tgt Ion: 65 Resp: 169589

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	107.4



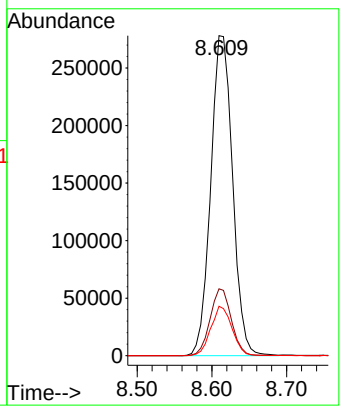


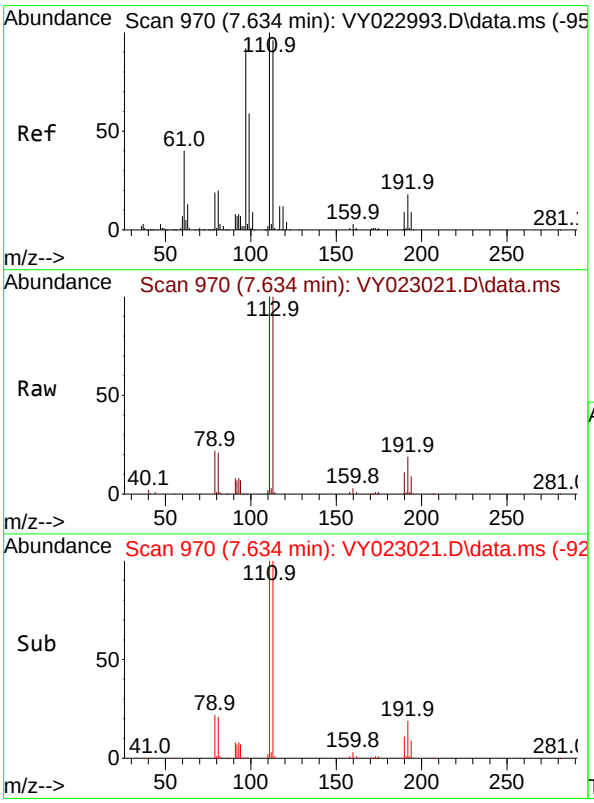
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

Tgt Ion:114 Resp: 566544

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	38.8
88	15.4	0.0	30.2

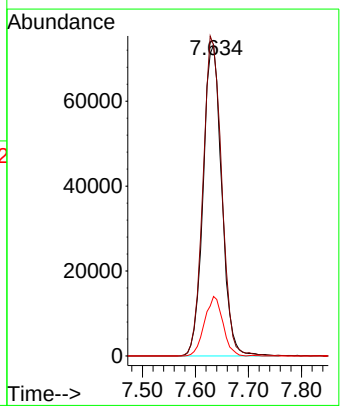


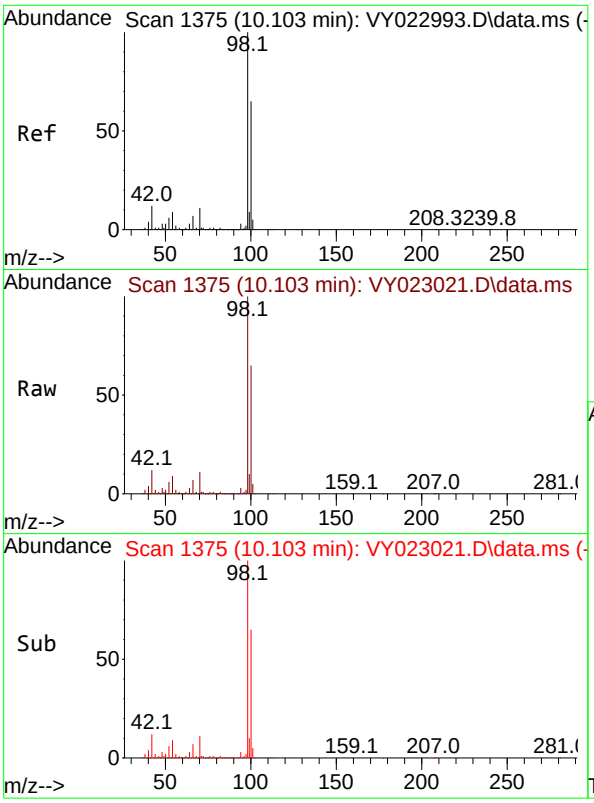


#35
Dibromofluoromethane
Concen: 49.520 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Tgt Ion:113 Resp: 177965

Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.2	124.8
192	19.0	15.3	22.9



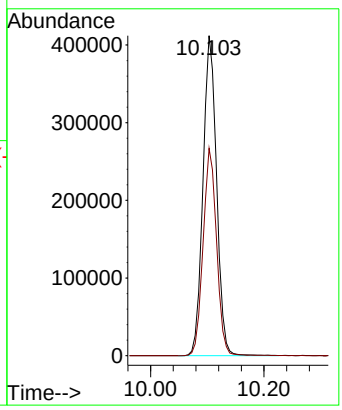


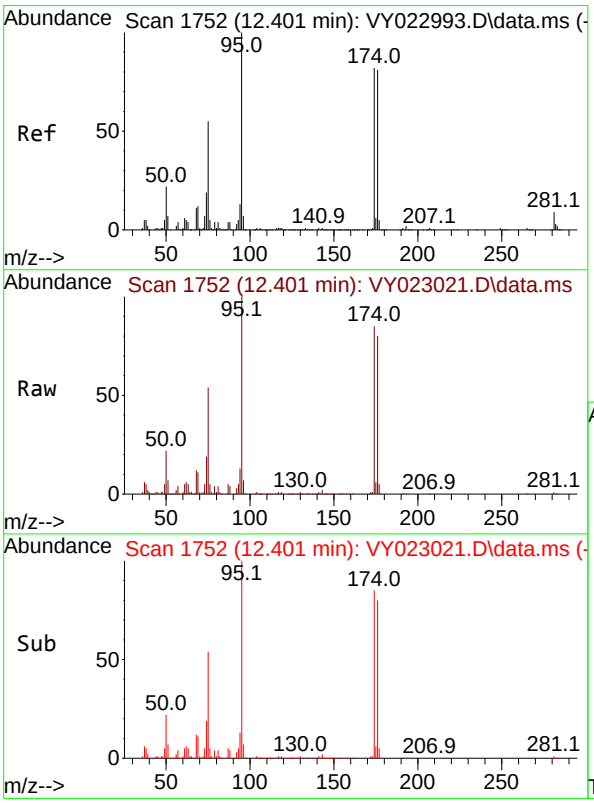
#50
Toluene-d8
Concen: 48.138 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

Tgt Ion: 98 Resp: 686049

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.2

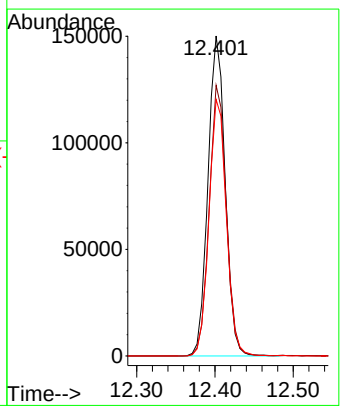


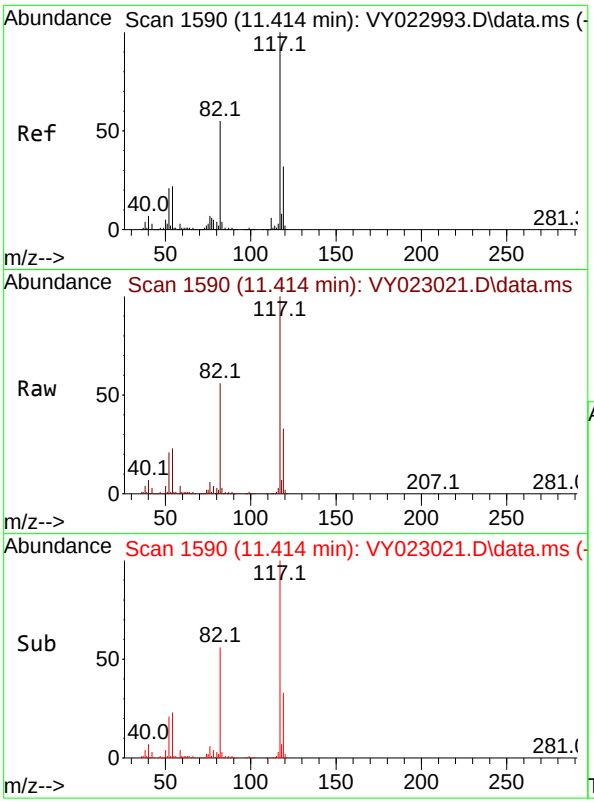


#62
4-Bromofluorobenzene
Concen: 51.065 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Tgt Ion: 95 Resp: 229089

Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	170.8
176	80.9	0.0	163.6



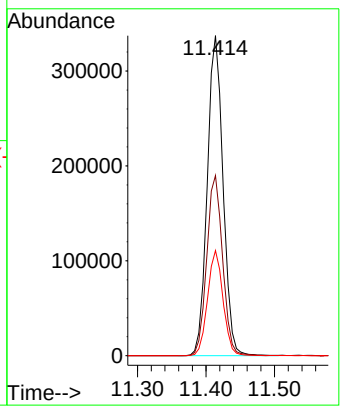


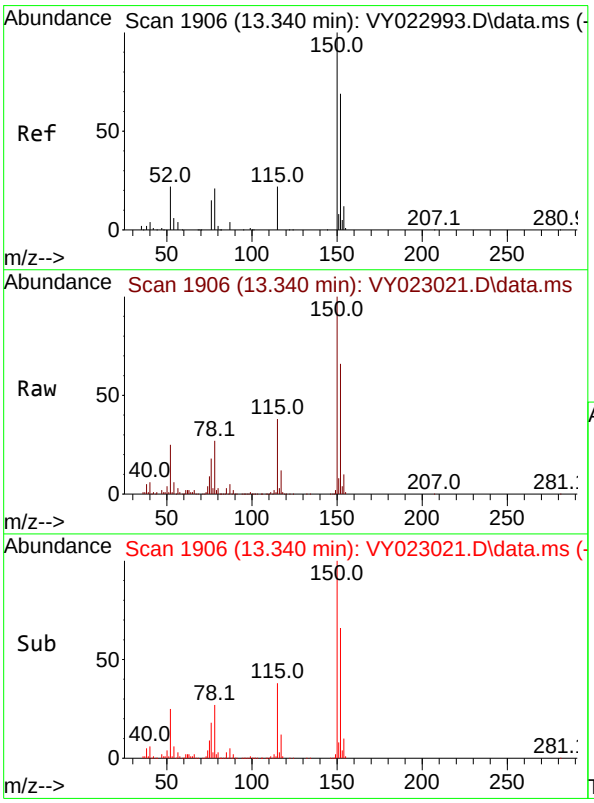
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

Tgt Ion:117 Resp: 540204

Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.3	66.5
119	32.9	25.8	38.8

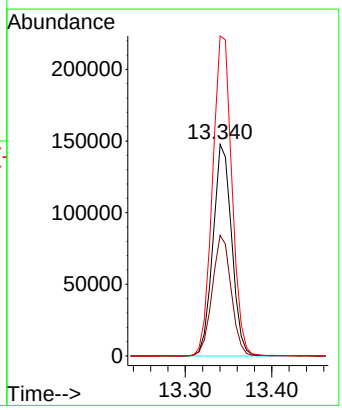




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023021.D
Acq: 21 Jul 2025 13:03

Tgt Ion:152 Resp: 221582

Ion	Ratio	Lower	Upper
152	100		
115	57.8	29.4	88.2
150	156.4	0.0	350.0



Raw Data: **VY023022.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-43-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	58
Sample Wt/Vol:	4.71 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023022.D	1	07/21/25 13:26	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0073	U	0.0021	0.0073	0.0092	mg/Kg
74-87-3	Chloromethane	0.0046	U	0.0021	0.0046	0.0092	mg/Kg
75-01-4	Vinyl Chloride	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
74-83-9	Bromomethane	0.0073	U	0.0020	0.0073	0.0092	mg/Kg
75-00-3	Chloroethane	0.0046	U	0.0023	0.0046	0.0092	mg/Kg
109-99-9	Tetrahydrofuran	0.023	U	0.0085	0.023	0.046	mg/Kg
75-69-4	Trichlorofluoromethane	0.0073	U	0.0022	0.0073	0.0092	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0046	U	0.0019	0.0046	0.0092	mg/Kg
75-35-4	1,1-Dichloroethene	0.0046	U	0.0018	0.0046	0.0092	mg/Kg
107-13-1	Acrylonitrile	0.023	U	0.0091	0.023	0.046	mg/Kg
67-64-1	Acetone	0.037	U	0.0087	0.037	0.046	mg/Kg
75-15-0	Carbon Disulfide	0.0073	U	0.0019	0.0073	0.0092	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0046	U	0.0013	0.0046	0.0092	mg/Kg
75-09-2	Methylene Chloride	0.015	U	0.0065	0.015	0.018	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
75-34-3	1,1-Dichloroethane	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
78-93-3	2-Butanone	0.037	U	0.012	0.037	0.046	mg/Kg
56-23-5	Carbon Tetrachloride	0.0046	U	0.0018	0.0046	0.0092	mg/Kg
594-20-7	2,2-Dichloropropane	0.0073	U	0.0023	0.0073	0.0092	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
67-66-3	Chloroform	0.0073	U	0.0015	0.0073	0.0092	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
563-58-6	1,1-Dichloropropene	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
71-43-2	Benzene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
107-06-2	1,2-Dichloroethane	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
79-01-6	Trichloroethene	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
78-87-5	1,2-Dichloropropane	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
74-95-3	Dibromomethane	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
75-27-4	Bromodichloromethane	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.023	U	0.0066	0.023	0.046	mg/Kg

Raw Data: **VY023022.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-43-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	58
Sample Wt/Vol:	4.71 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023022.D	1	07/21/25 13:26	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0046	U	0.0011	0.0046	0.0092	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
142-28-9	1,3-Dichloropropane	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
591-78-6	2-Hexanone	0.023	U	0.0068	0.023	0.046	mg/Kg
124-48-1	Dibromochloromethane	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
106-93-4	1,2-Dibromoethane	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
127-18-4	Tetrachloroethene	0.0046	U	0.0019	0.0046	0.0092	mg/Kg
108-90-7	Chlorobenzene	0.0046	U	0.0017	0.0046	0.0092	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
100-41-4	Ethyl Benzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
1330-20-7	Total Xylenes	0.014	U	0.0038	0.014	0.028	mg/Kg
179601-23-1	m/p-Xylenes	0.0092	U	0.0023	0.0092	0.018	mg/Kg
95-47-6	o-Xylene	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
100-42-5	Styrene	0.0046	U	0.0013	0.0046	0.0092	mg/Kg
75-25-2	Bromoform	0.0046	U	0.0016	0.0046	0.0092	mg/Kg
98-82-8	Isopropylbenzene	0.0046	U	0.0014	0.0046	0.0092	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0046	U	0.0022	0.0046	0.0092	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0073	U	0.0023	0.0073	0.0092	mg/Kg
108-86-1	Bromobenzene	0.0046	U	0.0022	0.0046	0.0092	mg/Kg
103-65-1	n-propylbenzene	0.0046	U	0.0013	0.0046	0.0092	mg/Kg
95-49-8	2-Chlorotoluene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0046	U	0.0015	0.0046	0.0092	mg/Kg
106-43-4	4-Chlorotoluene	0.0046	U	0.0022	0.0046	0.0092	mg/Kg
98-06-6	tert-Butylbenzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
135-98-8	sec-Butylbenzene	0.0046	U	0.0012	0.0046	0.0092	mg/Kg
99-87-6	p-Isopropyltoluene	0.0046	U	0.0011	0.0046	0.0092	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0046	U	0.0031	0.0046	0.0092	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0046	U	0.0029	0.0046	0.0092	mg/Kg

Raw Data: **VY023022.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-43-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	58
Sample Wt/Vol:	4.71 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023022.D	1	07/21/25 13:26	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0046	U	0.0027	0.0046	0.0092	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0046	U	0.0027	0.0046	0.0092	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0073	U	0.0034	0.0073	0.0092	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0073	U	0.0054	0.0073	0.0092	mg/Kg
87-68-3	Hexachlorobutadiene	0.0046	U	0.0035	0.0046	0.0092	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0073	U	0.0058	0.0073	0.0092	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0046	U	0.0019	0.0046	0.0092	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	62.4		71 - 136		125%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	48.3		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		79 - 119		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	283000	7.707				
540-36-3	1,4-Difluorobenzene	535000	8.616				
3114-55-4	Chlorobenzene-d5	514000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	206000	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\VY072125\
Data File : VY023022.D
Acq On : 21 Jul 2025 13:26
Operator : SY/MD
Sample : Q2639-11
Misc : 4.71g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-43-071725

Quant Time: Jul 22 04:50:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	283323	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	535446	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	514282	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	206482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	178844	62.355	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.700%			
35) Dibromofluoromethane	7.634	113	173240	51.005	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.020%			
50) Toluene-d8	10.103	98	650773	48.315	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.640%			
62) 4-Bromofluorobenzene	12.401	95	216841	51.142	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.280%			

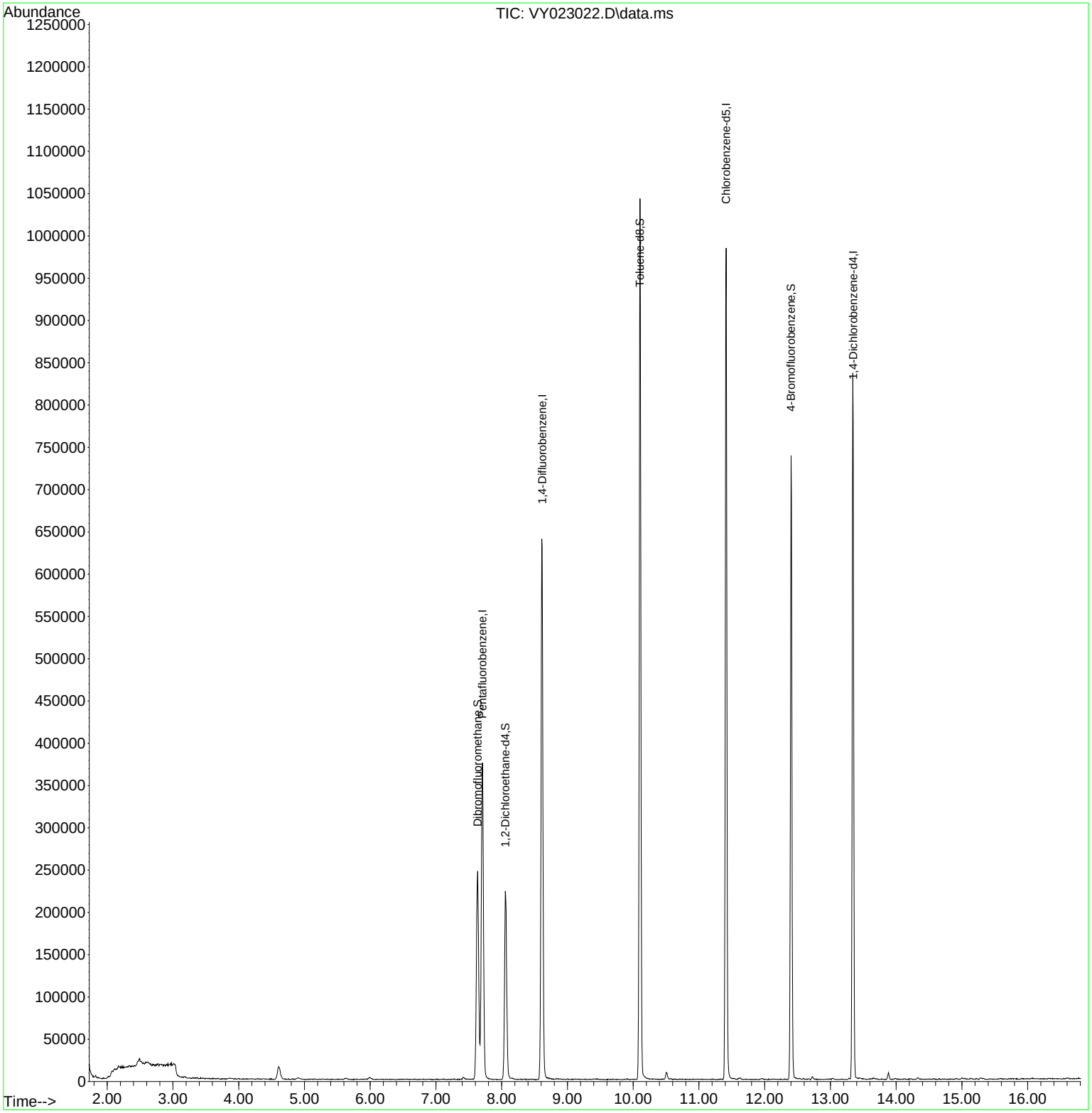
Target Compounds Qvalue

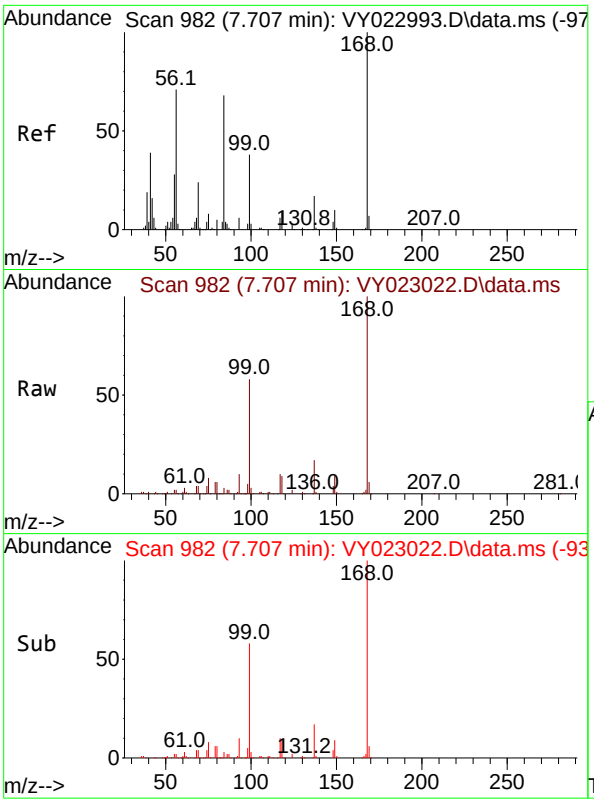
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023022.D
Acq On : 21 Jul 2025 13:26
Operator : SY/MD
Sample : Q2639-11
Misc : 4.71g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-43-071725

Quant Time: Jul 22 04:50:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



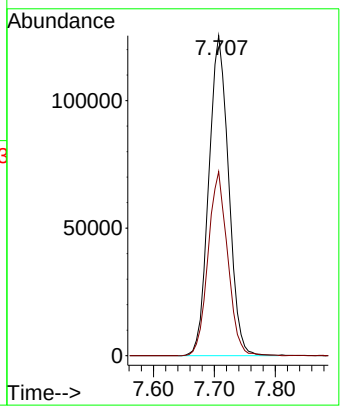


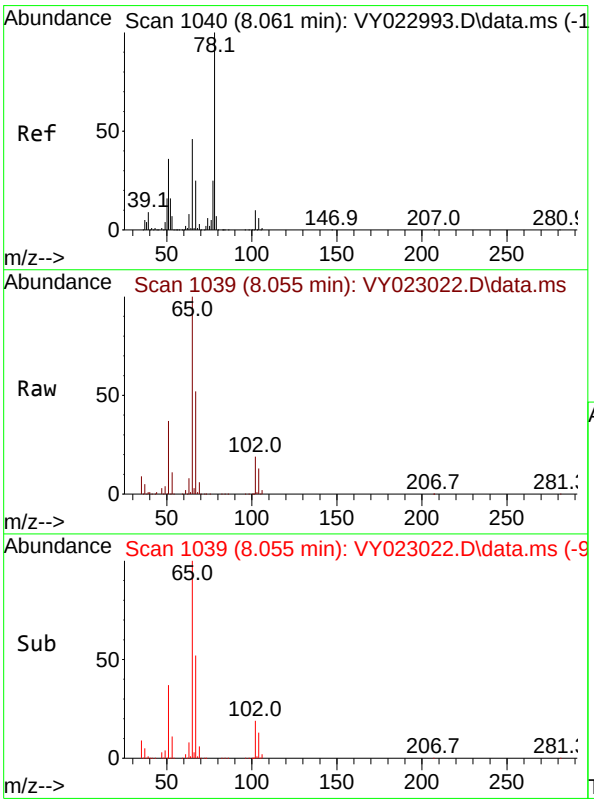
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-43-071725

Tgt Ion:168 Resp: 283323

Ion	Ratio	Lower	Upper
168	100		
99	57.5	44.4	66.6

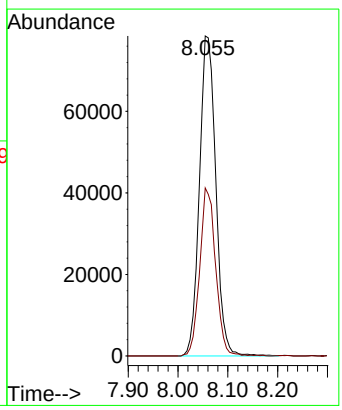


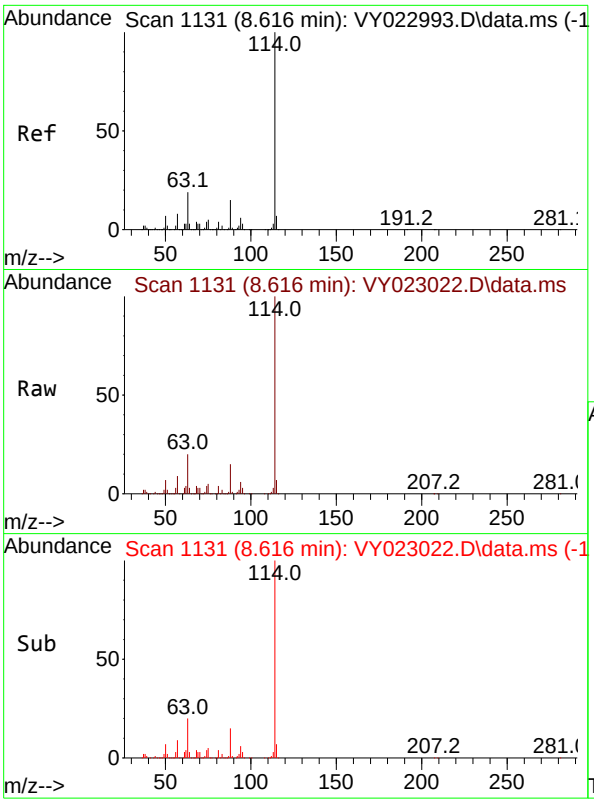


#33
1,2-Dichloroethane-d4
Concen: 62.355 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Tgt Ion: 65 Resp: 178844

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	107.4



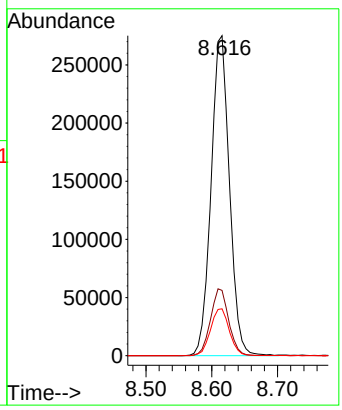


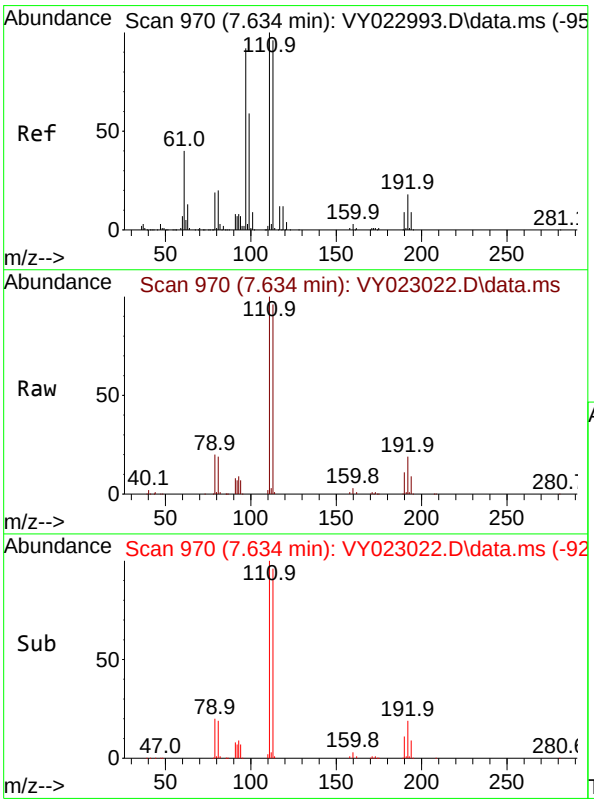
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-43-071725

Tgt Ion:114 Resp: 535446

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	38.8
88	14.6	0.0	30.2

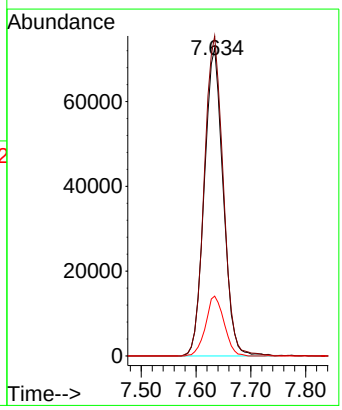


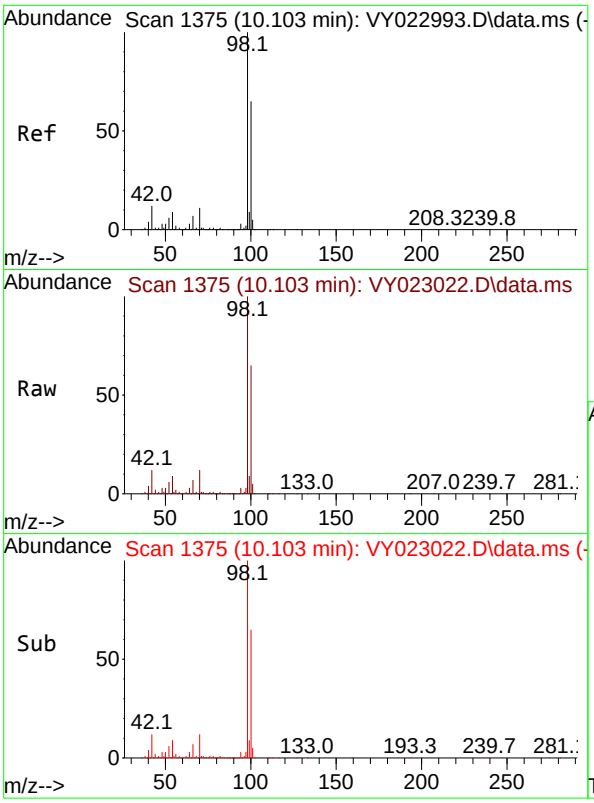


#35
Dibromofluoromethane
Concen: 51.005 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Tgt Ion:113 Resp: 173240

Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.2	124.8
192	19.0	15.3	22.9



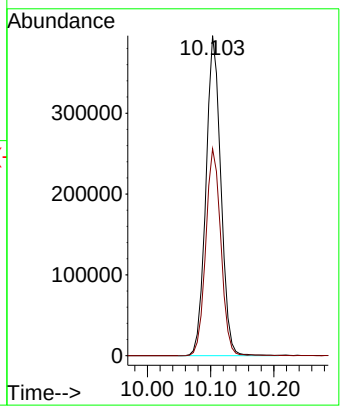


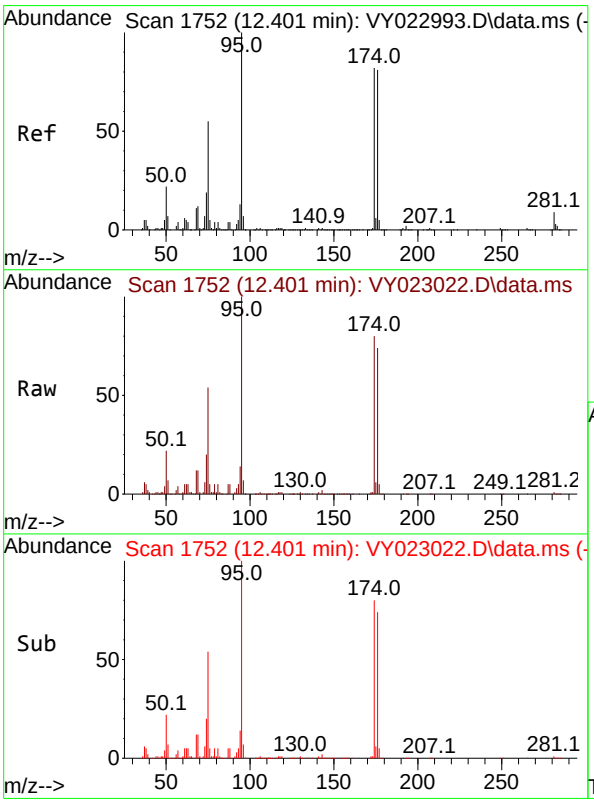
#50
Toluene-d8
Concen: 48.315 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-43-071725

Tgt Ion: 98 Resp: 650773

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.2

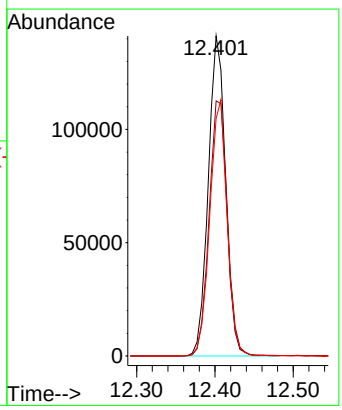


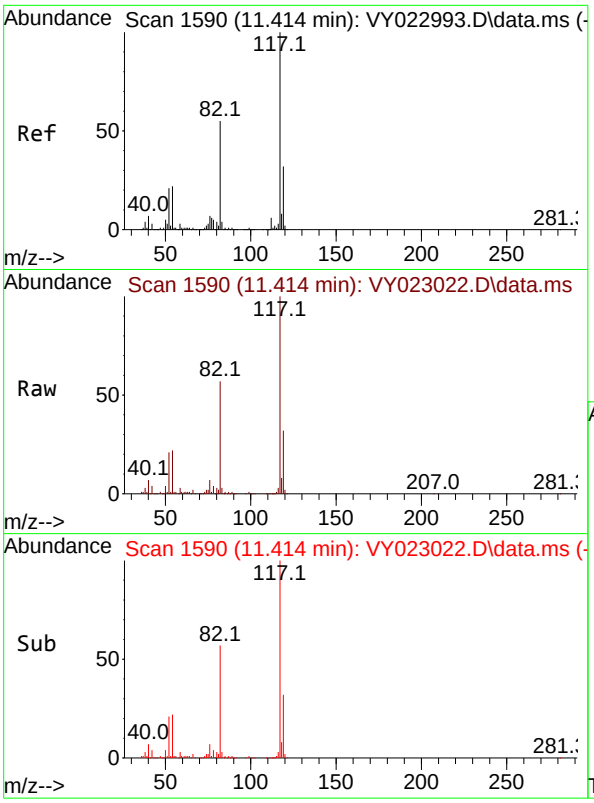


#62
4-Bromofluorobenzene
Concen: 51.142 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Tgt Ion: 95 Resp: 216841

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	170.8
176	79.7	0.0	163.6



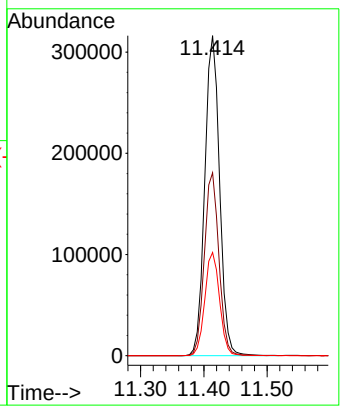


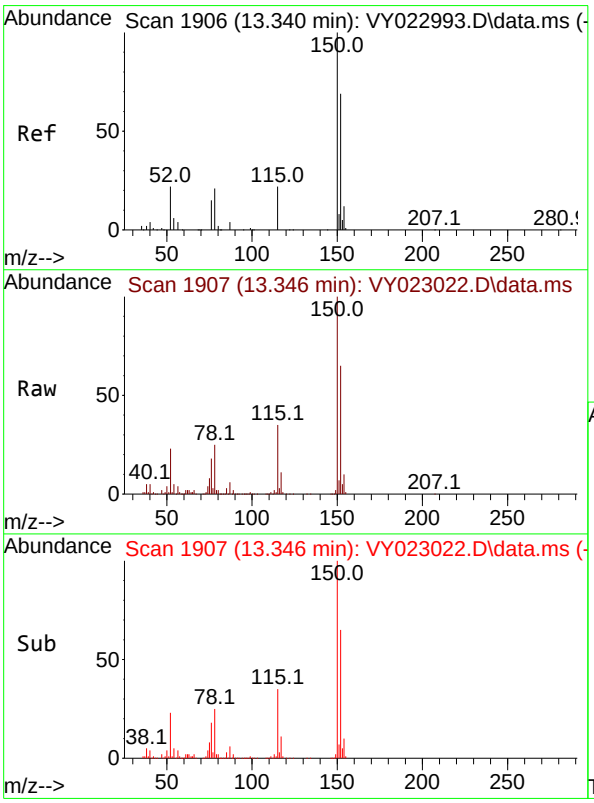
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-43-071725

Tgt Ion:117 Resp: 514282

Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.3	66.5
119	32.2	25.8	38.8

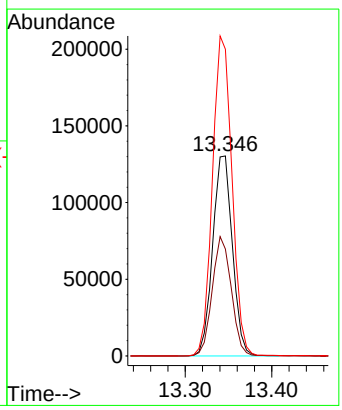




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023022.D
Acq: 21 Jul 2025 13:26

Tgt Ion:152 Resp: 206482

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.4	88.2
150	158.2	0.0	350.0



Raw Data: **VY023023.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-44-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	64.9
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023023.D	1	07/21/25 13:49	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0061	U	0.0017	0.0061	0.0076	mg/Kg
74-87-3	Chloromethane	0.0038	U	0.0017	0.0038	0.0076	mg/Kg
75-01-4	Vinyl Chloride	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
74-83-9	Bromomethane	0.0061	U	0.0016	0.0061	0.0076	mg/Kg
75-00-3	Chloroethane	0.0038	U	0.0019	0.0038	0.0076	mg/Kg
109-99-9	Tetrahydrofuran	0.019	U	0.0071	0.019	0.038	mg/Kg
75-69-4	Trichlorofluoromethane	0.0061	U	0.0018	0.0061	0.0076	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0038	U	0.0016	0.0038	0.0076	mg/Kg
75-35-4	1,1-Dichloroethene	0.0038	U	0.0015	0.0038	0.0076	mg/Kg
107-13-1	Acrylonitrile	0.019	U	0.0076	0.019	0.038	mg/Kg
67-64-1	Acetone	0.031	U	0.0072	0.031	0.038	mg/Kg
75-15-0	Carbon Disulfide	0.0061	U	0.0016	0.0061	0.0076	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0038	U	0.0011	0.0038	0.0076	mg/Kg
75-09-2	Methylene Chloride	0.012	U	0.0054	0.012	0.015	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
75-34-3	1,1-Dichloroethane	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
78-93-3	2-Butanone	0.031	U	0.010	0.031	0.038	mg/Kg
56-23-5	Carbon Tetrachloride	0.0038	U	0.0015	0.0038	0.0076	mg/Kg
594-20-7	2,2-Dichloropropane	0.0061	U	0.0020	0.0061	0.0076	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0038	U	0.0011	0.0038	0.0076	mg/Kg
67-66-3	Chloroform	0.0061	U	0.0013	0.0061	0.0076	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0038	U	0.0014	0.0038	0.0076	mg/Kg
563-58-6	1,1-Dichloropropene	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
71-43-2	Benzene	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
107-06-2	1,2-Dichloroethane	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
79-01-6	Trichloroethene	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
78-87-5	1,2-Dichloropropane	0.0038	U	0.0014	0.0038	0.0076	mg/Kg
74-95-3	Dibromomethane	0.0038	U	0.0014	0.0038	0.0076	mg/Kg
75-27-4	Bromodichloromethane	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.019	U	0.0055	0.019	0.038	mg/Kg

Raw Data: **VY023023.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-44-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	64.9
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023023.D	1	07/21/25 13:49	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0038	U	0.00099	0.0038	0.0076	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0038	U	0.00095	0.0038	0.0076	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0038	U	0.0014	0.0038	0.0076	mg/Kg
142-28-9	1,3-Dichloropropane	0.0038	U	0.0010	0.0038	0.0076	mg/Kg
591-78-6	2-Hexanone	0.019	U	0.0056	0.019	0.038	mg/Kg
124-48-1	Dibromochloromethane	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
106-93-4	1,2-Dibromoethane	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
127-18-4	Tetrachloroethene	0.0038	U	0.0016	0.0038	0.0076	mg/Kg
108-90-7	Chlorobenzene	0.0038	U	0.0014	0.0038	0.0076	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
100-41-4	Ethyl Benzene	0.0038	U	0.0010	0.0038	0.0076	mg/Kg
1330-20-7	Total Xylenes	0.011	U	0.0032	0.011	0.023	mg/Kg
179601-23-1	m/p-Xylenes	0.0076	U	0.0019	0.0076	0.015	mg/Kg
95-47-6	o-Xylene	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
100-42-5	Styrene	0.0038	U	0.0011	0.0038	0.0076	mg/Kg
75-25-2	Bromoform	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
98-82-8	Isopropylbenzene	0.0038	U	0.0012	0.0038	0.0076	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0038	U	0.0018	0.0038	0.0076	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0061	U	0.0019	0.0061	0.0076	mg/Kg
108-86-1	Bromobenzene	0.0038	U	0.0018	0.0038	0.0076	mg/Kg
103-65-1	n-propylbenzene	0.0038	U	0.0011	0.0038	0.0076	mg/Kg
95-49-8	2-Chlorotoluene	0.0038	U	0.0010	0.0038	0.0076	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0038	U	0.0013	0.0038	0.0076	mg/Kg
106-43-4	4-Chlorotoluene	0.0038	U	0.0019	0.0038	0.0076	mg/Kg
98-06-6	tert-Butylbenzene	0.0038	U	0.0010	0.0038	0.0076	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0038	U	0.00098	0.0038	0.0076	mg/Kg
135-98-8	sec-Butylbenzene	0.0038	U	0.0010	0.0038	0.0076	mg/Kg
99-87-6	p-Isopropyltoluene	0.0038	U	0.00095	0.0038	0.0076	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0038	U	0.0026	0.0038	0.0076	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0038	U	0.0024	0.0038	0.0076	mg/Kg

Raw Data: **VY023023.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	07/17/25
Project:	Raymark Superfund Site	Date Received:	07/18/25
Client Sample ID:	OU4-TS-44-071725	SDG No.:	Q2639
Lab Sample ID:	Q2639-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	64.9
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023023.D	1	07/21/25 13:49	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0038	U	0.0022	0.0038	0.0076	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0038	U	0.0022	0.0038	0.0076	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0061	U	0.0028	0.0061	0.0076	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0061	U	0.0045	0.0061	0.0076	mg/Kg
87-68-3	Hexachlorobutadiene	0.0038	U	0.0029	0.0038	0.0076	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0061	U	0.0049	0.0061	0.0076	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0038	U	0.0016	0.0038	0.0076	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.4		71 - 136		115%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		79 - 119		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	279000	7.707				
540-36-3	1,4-Difluorobenzene	524000	8.616				
3114-55-4	Chlorobenzene-d5	503000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	198000	13.34				

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\VY072125\
Data File : VY023023.D
Acq On : 21 Jul 2025 13:49
Operator : SY/MD
Sample : Q2639-13
Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-44-071725

Quant Time: Jul 22 04:51:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	278906	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	524366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	503133	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	198101	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	161924	57.350	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.700%			
35) Dibromofluoromethane	7.628	113	169317	50.903	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.800%			
50) Toluene-d8	10.103	98	638809	48.429	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.860%			
62) 4-Bromofluorobenzene	12.402	95	204694	49.298	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.600%			

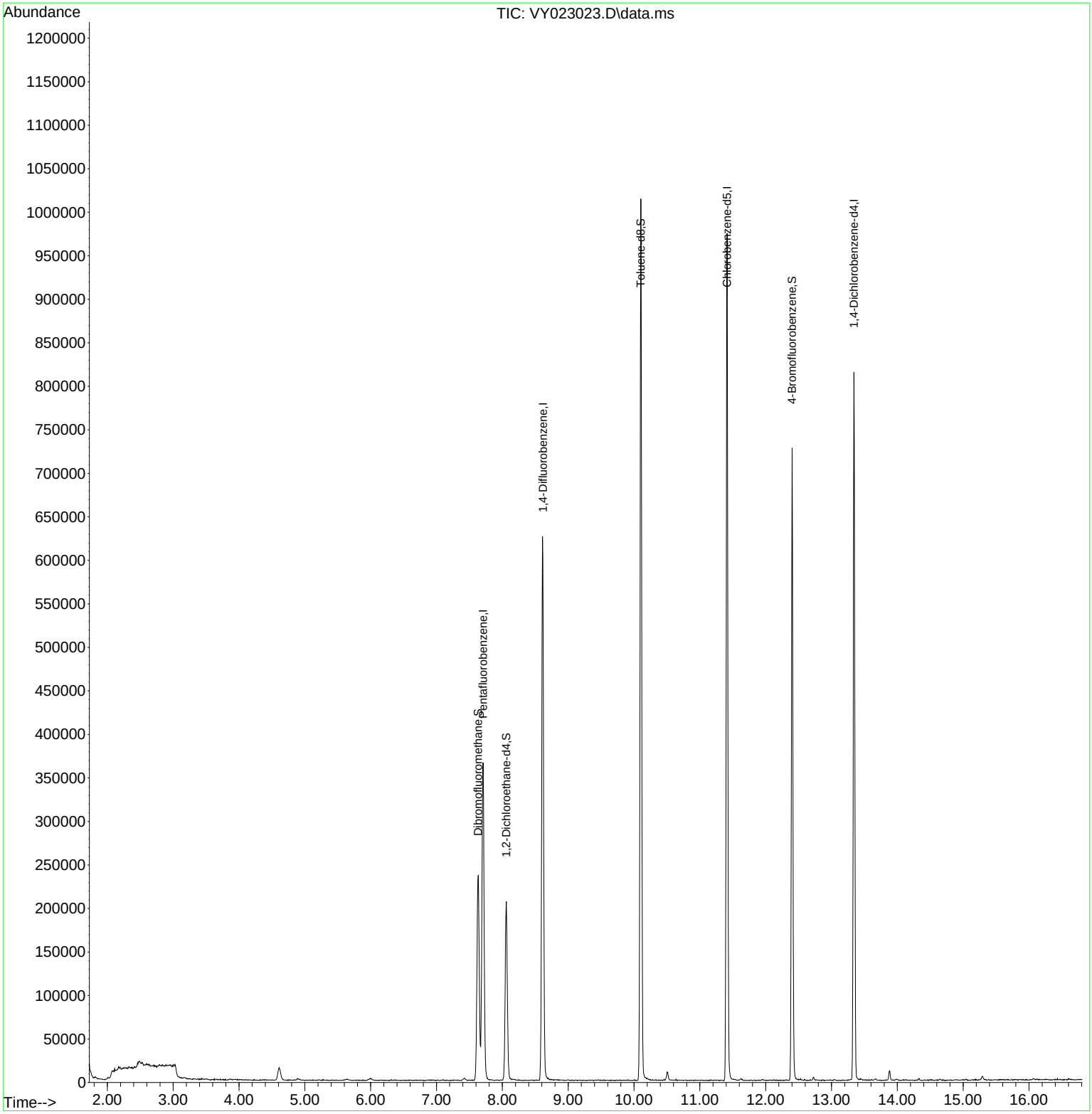
Target Compounds Qvalue

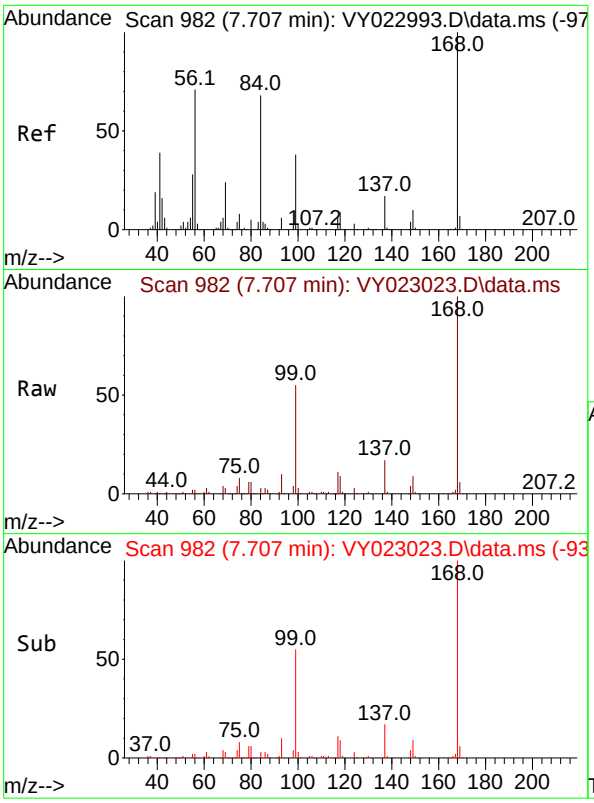
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023023.D
Acq On : 21 Jul 2025 13:49
Operator : SY/MD
Sample : Q2639-13
Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-44-071725

Quant Time: Jul 22 04:51:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



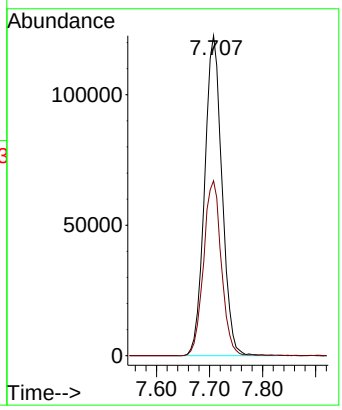


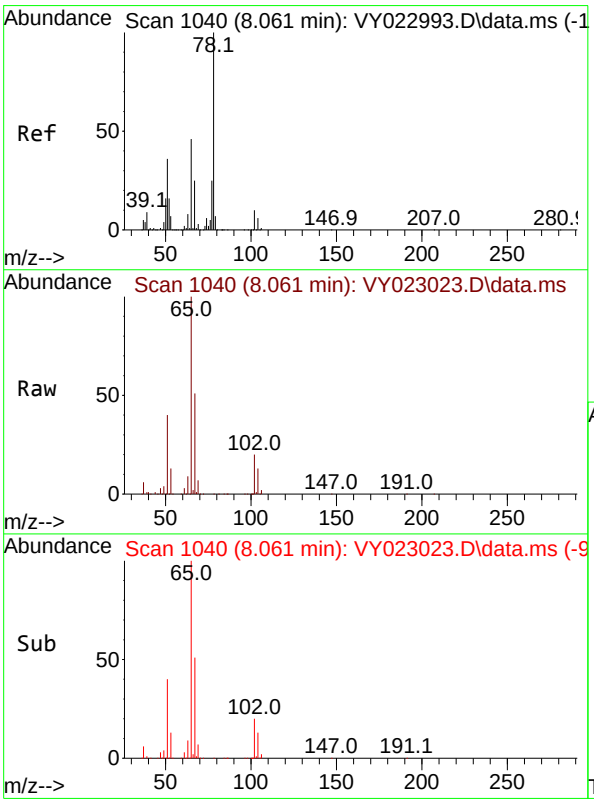
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-44-071725

Tgt Ion:168 Resp: 278906

Ion	Ratio	Lower	Upper
168	100		
99	54.6	44.4	66.6

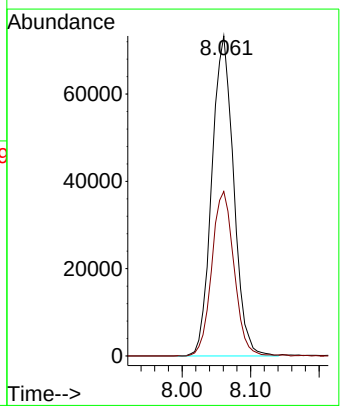


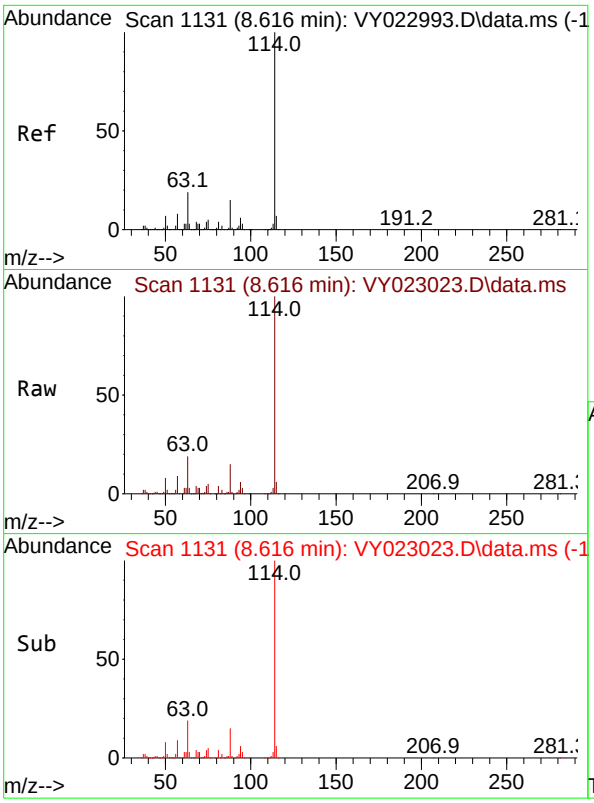


#33
1,2-Dichloroethane-d4
Concen: 57.350 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Tgt Ion: 65 Resp: 161924

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	107.4



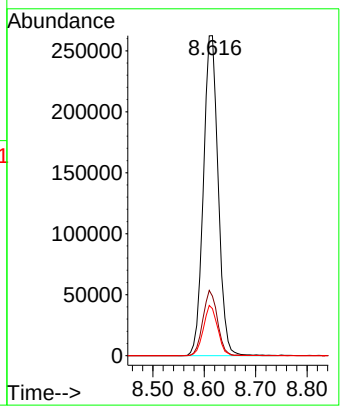


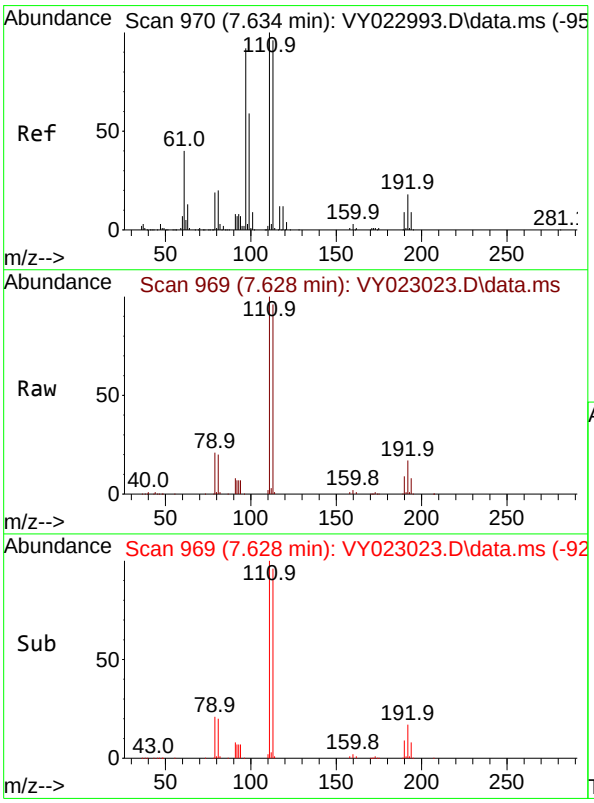
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-44-071725

Tgt Ion:114 Resp: 524366

Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.8
88	14.7	0.0	30.2

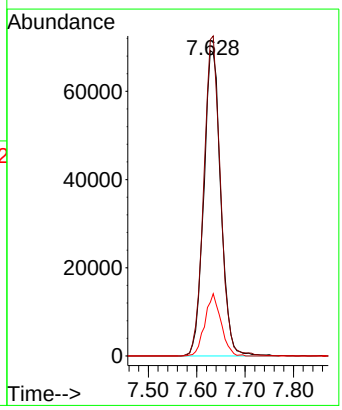


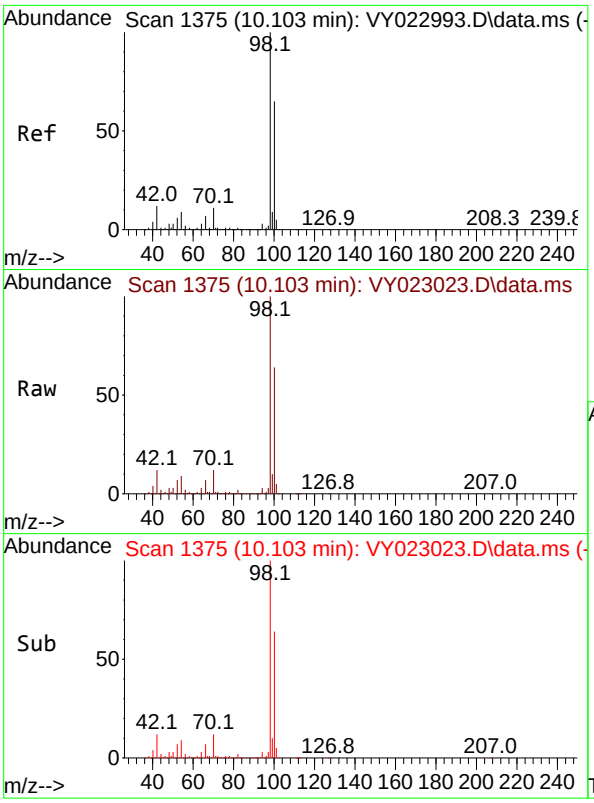


#35
Dibromofluoromethane
Concen: 50.903 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Tgt Ion:113 Resp: 169317

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.2	124.8
192	19.3	15.3	22.9



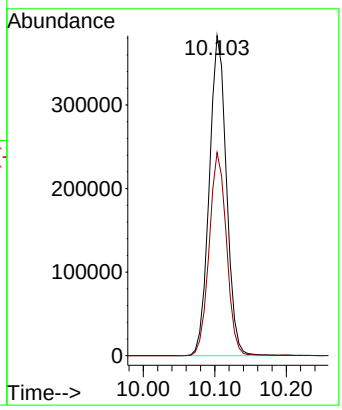


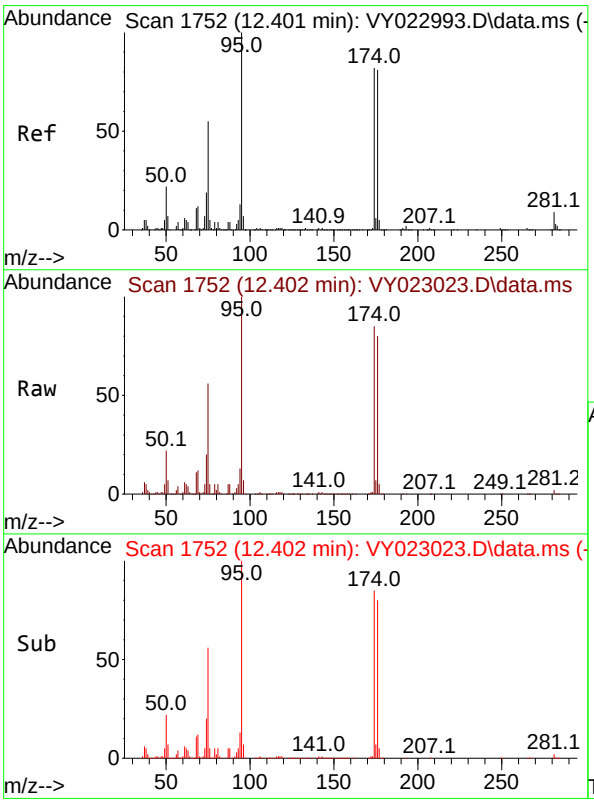
#50
Toluene-d8
Concen: 48.429 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-44-071725

Tgt Ion: 98 Resp: 638809

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.2	78.2

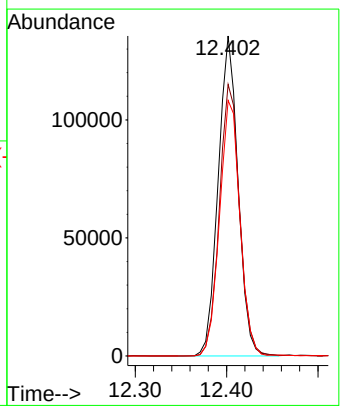


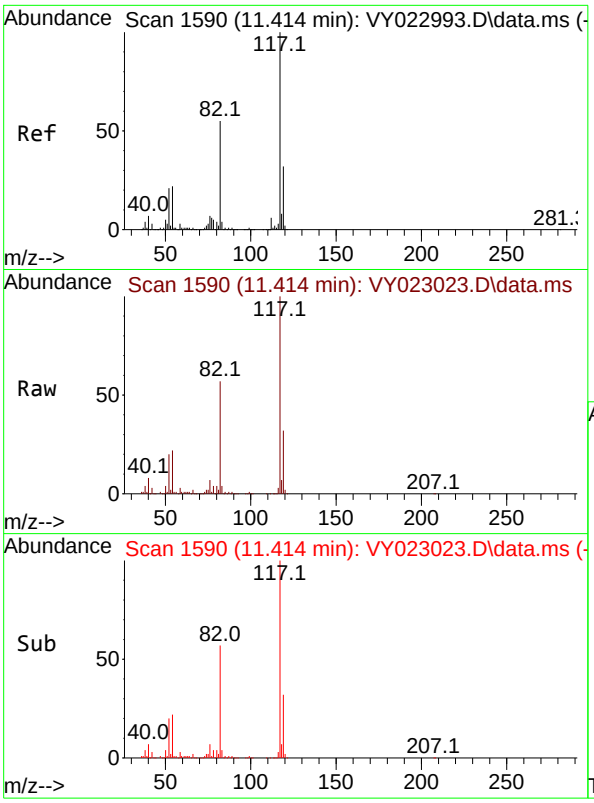


#62
4-Bromofluorobenzene
Concen: 49.298 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Tgt Ion: 95 Resp: 204694

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	170.8
176	82.3	0.0	163.6



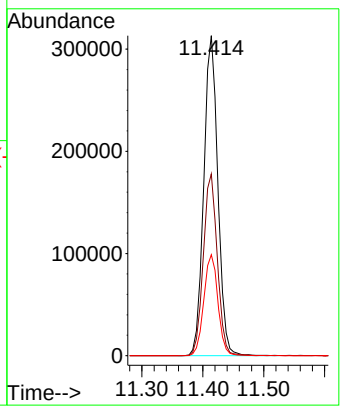


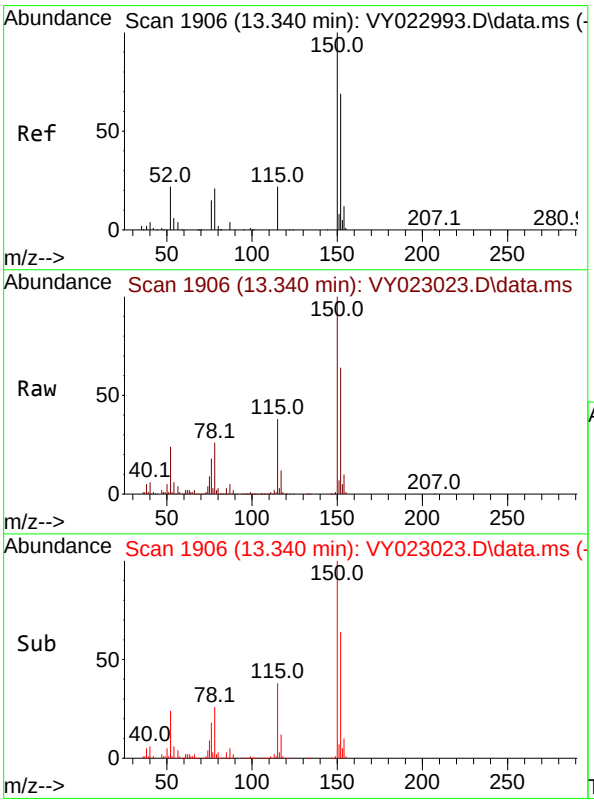
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-44-071725

Tgt Ion:117 Resp: 503133

Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.3	66.5
119	31.6	25.8	38.8

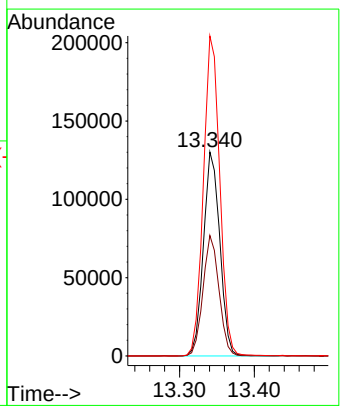




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023023.D
Acq: 21 Jul 2025 13:49

Tgt Ion:152 Resp: 198101

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	156.8	0.0	350.0



CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG No.: Q2639

Instrument ID: MSVOA_Y Calibration Date(s): 07/18/2025 07/18/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:49

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

LAB FILE ID: RRF005 = VY022990.D RRF010 = VY022991.D RRF020 = VY022992.D
RRF050 = VY022993.D RRF100 = VY022994.D RRF150 = VY022995.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.490	0.456	0.508	0.367	0.361	0.364	0.425	16.1
Chloromethane	0.789	0.743	0.886	0.618	0.632	0.663	0.722	14.5
Vinyl Chloride	0.938	0.939	1.131	0.825	0.825	0.829	0.915	13.1
Bromomethane	0.708	0.665	0.792	0.554	0.607	0.634	0.660	12.6
Chloroethane	0.620	0.627	0.731	0.556	0.563	0.567	0.611	10.9
Tetrahydrofuran	0.073	0.069	0.096	0.081	0.088	0.093	0.083	13
Trichlorofluoromethane	1.130	1.097	1.247	0.973	0.955	0.967	1.062	11
1,1,2-Trichlorotrifluoroethane	0.606	0.567	0.679	0.503	0.493	0.498	0.558	13.4
1,1-Dichloroethene	0.563	0.544	0.626	0.476	0.483	0.496	0.531	10.8
Acrylonitrile	0.105	0.089	0.118	0.098	0.109	0.112	0.105	9.6
Acetone	0.113	0.091	0.108	0.077	0.080	0.080	0.092	16.9
Carbon Disulfide	1.692	1.624	1.962	1.438	1.471	1.475	1.610	12.4
Methyl tert-butyl Ether	1.179	1.145	1.451	1.191	1.320	1.359	1.274	9.5
Methylene Chloride	1.478	1.041	0.933	0.607	0.594	0.575	0.871	40.9
trans-1,2-Dichloroethene	0.597	0.571	0.707	0.533	0.567	0.574	0.591	10.2
1,1-Dichloroethane	1.062	1.063	1.261	0.986	1.049	1.051	1.079	8.7
2-Butanone	0.130	0.118	0.146	0.123	0.134	0.140	0.132	7.9
Carbon Tetrachloride	0.552	0.530	0.648	0.508	0.498	0.521	0.543	10.1
2,2-Dichloropropane	0.977	0.925	1.111	0.858	0.893	0.907	0.945	9.5
cis-1,2-Dichloroethene	0.657	0.648	0.788	0.631	0.680	0.687	0.682	8.2
Chloroform	1.075	1.076	1.267	0.991	1.070	1.050	1.088	8.6
1,1,1-Trichloroethane	1.006	0.976	1.162	0.903	0.929	0.947	0.987	9.4
1,1-Dichloropropene	0.505	0.479	0.600	0.472	0.462	0.480	0.500	10.2
Benzene	1.484	1.421	1.776	1.411	1.453	1.479	1.504	9.1
1,2-Dichloroethane	0.361	0.342	0.434	0.358	0.375	0.376	0.374	8.5
Trichloroethene	0.402	0.374	0.450	0.365	0.361	0.367	0.386	8.9
1,2-Dichloropropane	0.352	0.327	0.414	0.327	0.342	0.346	0.351	9.2
Dibromomethane	0.176	0.162	0.209	0.174	0.182	0.186	0.182	8.8
Bromodichloromethane	0.487	0.463	0.588	0.473	0.501	0.501	0.502	8.9
4-Methyl-2-Pentanone	0.150	0.155	0.212	0.191	0.200	0.214	0.187	15

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

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG No.: Q2639

Instrument ID: MSVOA_Y Calibration Date(s): 07/18/2025 07/18/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:49

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

LAB FILE ID: RRF005 = VY022990.D RRF010 = VY022991.D RRF020 = VY022992.D
RRF050 = VY022993.D RRF100 = VY022994.D RRF150 = VY022995.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Toluene	0.865	0.868	1.088	0.892	0.939	0.960	0.935	9
t-1,3-Dichloropropene	0.383	0.376	0.493	0.414	0.452	0.467	0.431	10.9
cis-1,3-Dichloropropene	0.478	0.464	0.605	0.492	0.528	0.549	0.519	10.1
1,1,2-Trichloroethane	0.225	0.213	0.274	0.228	0.243	0.249	0.239	9
1,3-Dichloropropane	0.386	0.366	0.477	0.393	0.422	0.430	0.412	9.6
2-Hexanone	0.100	0.100	0.136	0.127	0.133	0.144	0.123	15.4
Dibromochloromethane	0.284	0.275	0.359	0.303	0.322	0.331	0.312	10
1,2-Dibromoethane	0.197	0.193	0.248	0.210	0.223	0.229	0.217	9.6
Tetrachloroethene	0.555	0.540	0.564	0.513	0.474	0.421	0.511	10.7
Chlorobenzene	1.151	1.151	1.356	1.114	1.145	1.163	1.180	7.5
1,1,1,2-Tetrachloroethane	0.399	0.383	0.457	0.376	0.394	0.406	0.402	7.2
Ethyl Benzene	1.993	1.951	2.413	2.007	2.064	2.119	2.091	8
m/p-Xylenes	0.755	0.736	0.928	0.772	0.802	0.820	0.802	8.6
o-Xylene	0.676	0.679	0.859	0.713	0.759	0.781	0.744	9.4
Styrene	1.060	1.085	1.399	1.188	1.268	1.316	1.219	10.9
Bromoform	0.186	0.183	0.223	0.194	0.215	0.226	0.204	9.4
Isopropylbenzene	4.176	4.073	5.014	4.052	3.914	4.206	4.239	9.3
1,1,2,2-Tetrachloroethane	0.558	0.561	0.749	0.560	0.582	0.671	0.613	12.9
1,2,3-Trichloropropane	0.616	0.599	0.713	0.596	0.580	0.633	0.623	7.7
Bromobenzene	0.909	0.863	1.063	0.870	0.879	0.932	0.919	8.1
n-propylbenzene	4.986	4.856	6.011	4.862	4.651	4.923	5.048	9.6
2-Chlorotoluene	2.819	2.740	3.339	2.682	2.657	2.797	2.839	8.9
1,3,5-Trimethylbenzene	3.245	3.172	3.924	3.210	3.172	3.338	3.343	8.7
4-Chlorotoluene	2.826	2.738	3.331	2.730	2.704	2.851	2.864	8.3
tert-Butylbenzene	2.997	2.802	3.547	2.928	2.833	3.014	3.020	9
1,2,4-Trimethylbenzene	3.148	3.060	3.852	3.171	3.176	3.340	3.291	8.8
sec-Butylbenzene	4.483	4.301	5.388	4.342	4.230	4.411	4.526	9.5
p-Isopropyltoluene	3.467	3.392	4.318	3.566	3.557	3.754	3.676	9.2
1,3-Dichlorobenzene	1.871	1.736	2.121	1.750	1.783	1.871	1.855	7.7
1,4-Dichlorobenzene	1.838	1.717	2.062	1.687	1.706	1.761	1.795	7.9

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: NOBI03

Lab Code: ACE SDG No.: Q2639

Instrument ID: MSVOA_Y Calibration Date(s): 07/18/2025 07/18/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:49

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

LAB FILE ID: RRF005 = VY022990.D RRF010 = VY022991.D RRF020 = VY022992.D
RRF050 = VY022993.D RRF100 = VY022994.D RRF150 = VY022995.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
n-Butylbenzene	3.290	3.137	3.991	3.280	3.275	3.378	3.392	8.9
1,2-Dichlorobenzene	1.589	1.455	1.791	1.478	1.508	1.571	1.565	7.8
1,2-Dibromo-3-Chloropropane	0.084	0.083	0.101	0.090	0.090	0.098	0.091	7.8
1,2,4-Trichlorobenzene	0.781	0.726	0.946	0.794	0.838	0.864	0.825	9.3
Hexachlorobutadiene	0.581	0.492	0.630	0.473	0.473	0.471	0.520	13.2
1,2,3-Trichlorobenzene	0.628	0.603	0.757	0.671	0.709	0.720	0.681	8.6
1,2-Dichloroethane-d4	0.472	0.483	0.588	0.476	0.519	0.499	0.506	8.6
Dibromofluoromethane	0.302	0.302	0.374	0.302	0.309	0.314	0.317	8.9
Toluene-d8	1.197	1.205	1.481	1.205	1.223	1.235	1.258	8.8
4-Bromofluorobenzene	0.409	0.353	0.441	0.369	0.398	0.406	0.396	7.9
trans-1,4-Dichloro-2-butene	0.203	0.189	0.234	0.200	0.204	0.225	0.209	8.1

* 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 : 82Y071825S.M
Title : SW846 8260
Last Update : Sat Jul 19 01:50:49 2025
Response Via : Initial Calibration

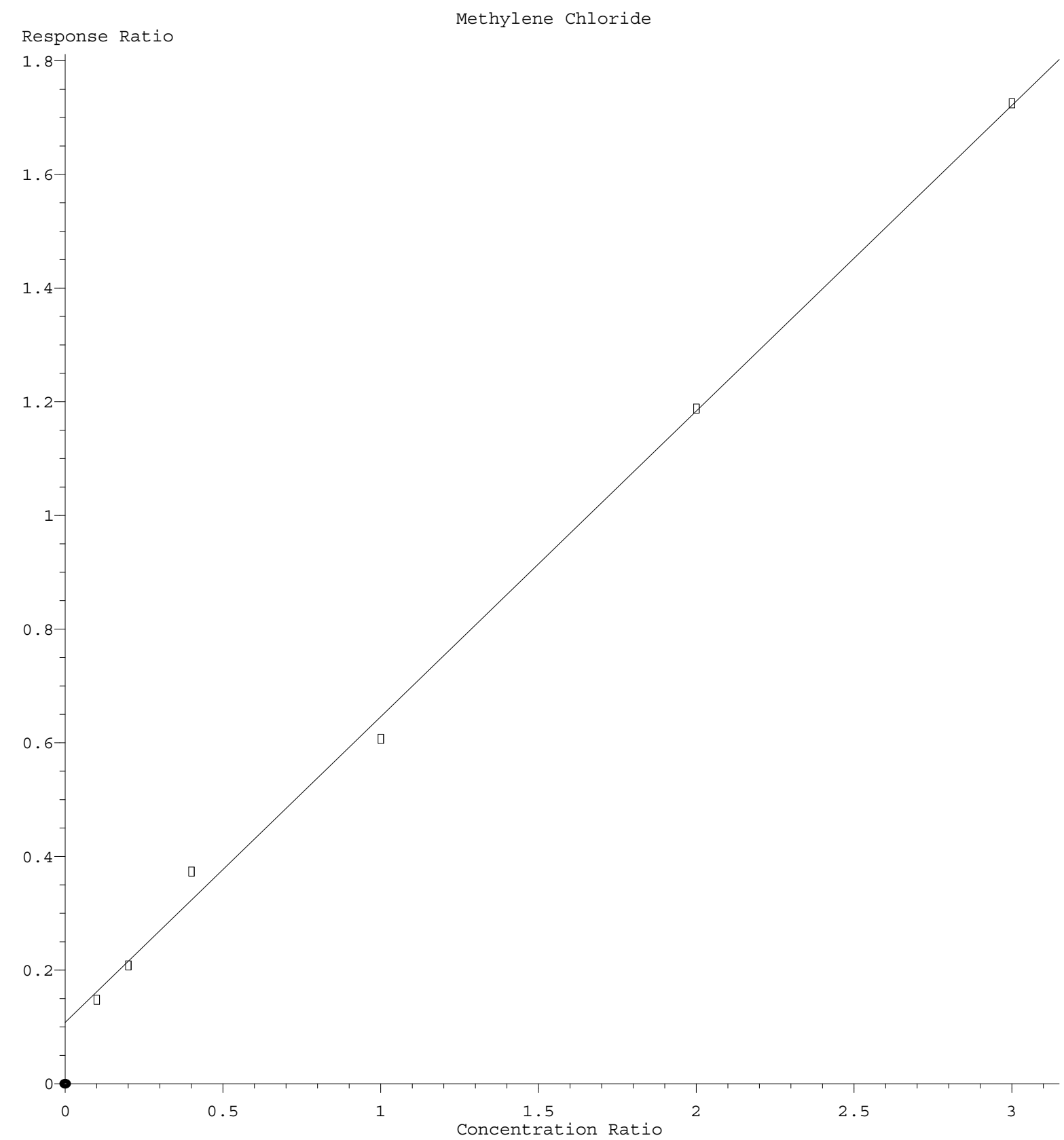
Calibration Files
5 =VY022990.D 10 =VY022991.D 20 =VY022992.D 50 =VY022993.D 100 =VY022994.D 150 =VY022995.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.490	0.456	0.508	0.367	0.361	0.364	0.425	16.07
3)	P	Chloromethane	0.789	0.743	0.886	0.618	0.632	0.663	0.722	14.46
4)	C	Vinyl Chloride	0.938	0.939	1.131	0.825	0.825	0.829	0.915	13.07#
5)	T	Bromomethane	0.708	0.665	0.792	0.554	0.607	0.634	0.660	12.58
6)	T	Chloroethane	0.620	0.627	0.731	0.556	0.563	0.567	0.611	10.87
7)	T	Trichlorofluor...	1.129	1.097	1.247	0.973	0.955	0.967	1.062	11.02
8)	T	Diethyl Ether	0.298	0.273	0.314	0.248	0.268	0.266	0.278	8.57
9)	T	1,1,2-Trichlor...	0.606	0.567	0.679	0.503	0.493	0.498	0.558	13.37
10)	T	Methyl Iodide	0.465	0.542	0.692	0.569	0.605	0.603	0.579	12.99
11)	T	Tert butyl alc...	0.027	0.029	0.034	0.029	0.031	0.033	0.031	8.75
12)	CM	1,1-Dichloroet...	0.563	0.544	0.626	0.476	0.483	0.496	0.531	10.84#
13)	T	Acrolein	0.020	0.018	0.024	0.007	0.008	0.009	0.014	50.14
14)	T	Allyl chloride	0.810	0.773	0.939	0.741	0.789	0.806	0.809	8.42
15)	T	Acrylonitrile	0.105	0.089	0.118	0.098	0.109	0.112	0.105	9.64
16)	T	Acetone	0.113	0.091	0.108	0.077	0.080	0.080	0.092	16.95
17)	T	Carbon Disulfide	1.692	1.624	1.962	1.438	1.471	1.475	1.610	12.37
18)	T	Methyl Acetate	0.247	0.256	0.351	0.323	0.323	0.364	0.311	15.72
19)	T	Methyl tert-bu...	1.179	1.145	1.451	1.191	1.320	1.359	1.274	9.51
20)	T	Methylene Chlo...	1.478	1.041	0.933	0.607	0.594	0.575	0.871	40.90
21)	T	trans-1,2-Dich...	0.597	0.571	0.707	0.533	0.567	0.574	0.591	10.17
22)	T	Diisopropyl ether	1.597	1.593	1.988	1.595	1.759	1.772	1.717	9.14
23)	T	Vinyl Acetate	0.775	0.767	0.989	0.807	0.928	0.926	0.865	10.84
24)	P	1,1-Dichloroet...	1.062	1.063	1.261	0.986	1.049	1.051	1.079	8.69
25)	T	2-Butanone	0.130	0.118	0.146	0.123	0.134	0.140	0.132	7.91
26)	T	2,2-Dichloropr...	0.977	0.925	1.111	0.858	0.893	0.907	0.945	9.54
27)	T	cis-1,2-Dichlo...	0.657	0.648	0.788	0.631	0.680	0.687	0.682	8.22
28)	T	Bromochloromet...	0.394	0.391	0.488	0.398	0.425	0.413	0.418	8.73
29)	T	Tetrahydrofuran	0.073	0.069	0.096	0.081	0.088	0.093	0.083	12.96
30)	C	Chloroform	1.075	1.076	1.267	0.991	1.070	1.050	1.088	8.57#
31)	T	Cyclohexane	1.175	1.012	1.175	0.880	0.887	0.918	1.008	13.67
32)	T	1,1,1-Trichlor...	1.006	0.976	1.162	0.903	0.929	0.947	0.987	9.41
33)	S	1,2-Dichloroet...	0.472	0.483	0.588	0.476	0.519	0.499	0.506	8.65
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.302	0.302	0.374	0.302	0.309	0.314	0.317	8.92
36)	T	1,1-Dichloropr...	0.505	0.479	0.600	0.472	0.462	0.480	0.500	10.23
37)	T	Ethyl Acetate	0.183	0.173	0.207	0.176	0.185	0.189	0.186	6.51
38)	T	Carbon Tetrach...	0.552	0.530	0.648	0.508	0.498	0.521	0.543	10.11
39)	T	Methylcyclohexane	0.657	0.609	0.764	0.611	0.604	0.635	0.647	9.43
40)	TM	Benzene	1.484	1.421	1.776	1.411	1.453	1.479	1.504	9.07
41)	T	Methacrylonitrile	0.079	0.105	0.111	0.100	0.105	0.107	0.101	11.11
42)	TM	1,2-Dichloroet...	0.361	0.342	0.434	0.358	0.375	0.376	0.374	8.54
43)	T	Isopropyl Acetate	0.316	0.314	0.421	0.365	0.389	0.405	0.369	12.28
44)	TM	Trichloroethene	0.402	0.374	0.450	0.365	0.361	0.367	0.386	8.94
45)	C	1,2-Dichloropr...	0.352	0.327	0.414	0.327	0.342	0.346	0.351	9.24#
46)	T	Dibromomethane	0.176	0.162	0.209	0.174	0.182	0.186	0.182	8.84
47)	T	Bromodichlorom...	0.487	0.463	0.588	0.473	0.501	0.501	0.502	8.89
48)	T	Methyl methacr...	0.148	0.149	0.200	0.180	0.189	0.203	0.178	13.72
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	12.38
50)	S	Toluene-d8	1.197	1.205	1.481	1.205	1.223	1.235	1.258	8.78
51)	T	4-Methyl-2-Pen...	0.150	0.155	0.212	0.191	0.200	0.214	0.187	14.96
52)	CM	Toluene	0.865	0.868	1.088	0.892	0.939	0.960	0.935	8.98#
53)	T	t-1,3-Dichloro...	0.383	0.376	0.493	0.414	0.452	0.467	0.431	10.93
54)	T	cis-1,3-Dichlo...	0.478	0.464	0.605	0.492	0.528	0.549	0.519	10.11
55)	T	1,1,2-Trichlor...	0.225	0.213	0.274	0.228	0.243	0.249	0.239	8.99
56)	T	Ethyl methacry...	0.234	0.242	0.322	0.301	0.336	0.351	0.298	16.55

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y071825S.M

57)	T	1,3-Dichloropr...	0.386	0.366	0.477	0.393	0.422	0.430	0.412	9.56
58)	T	2-Chloroethyl ...	0.108	0.117	0.154	0.157	0.166	0.173	0.146	18.34
59)	T	2-Hexanone	0.100	0.100	0.136	0.127	0.133	0.144	0.123	15.40
60)	T	Dibromochlorom...	0.284	0.275	0.359	0.303	0.322	0.331	0.312	10.00
61)	T	1,2-Dibromoethane	0.197	0.193	0.248	0.210	0.223	0.229	0.217	9.59
62)	S	4-Bromofluorob...	0.409	0.353	0.441	0.369	0.398	0.406	0.396	7.88
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.555	0.540	0.564	0.513	0.474	0.421	0.511	10.72
65)	PM	Chlorobenzene	1.151	1.151	1.356	1.114	1.145	1.163	1.180	7.45
66)	T	1,1,1,2-Tetrac...	0.399	0.383	0.457	0.376	0.394	0.406	0.402	7.23
67)	C	Ethyl Benzene	1.993	1.951	2.413	2.007	2.064	2.119	2.091	8.05#
68)	T	m/p-Xylenes	0.755	0.736	0.928	0.772	0.802	0.820	0.802	8.56
69)	T	o-Xylene	0.676	0.679	0.859	0.713	0.759	0.781	0.744	9.39
70)	T	Styrene	1.060	1.085	1.399	1.188	1.268	1.316	1.219	10.93
71)	P	Bromoform	0.186	0.183	0.223	0.194	0.215	0.226	0.204	9.43
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.176	4.073	5.014	4.052	3.914	4.206	4.239	9.28
74)	T	N-amyl acetate	0.682	0.709	0.873	0.794	0.832	0.904	0.799	11.10
75)	P	1,1,2,2-Tetrac...	0.558	0.561	0.749	0.560	0.582	0.671	0.613	12.90
76)	T	1,2,3-Trichlor...	0.616	0.599	0.713	0.596	0.580	0.633	0.623	7.65
77)	T	Bromobenzene	0.909	0.863	1.063	0.870	0.879	0.932	0.919	8.15
78)	T	n-propylbenzene	4.986	4.856	6.011	4.862	4.651	4.923	5.048	9.61
79)	T	2-Chlorotoluene	2.819	2.740	3.339	2.682	2.657	2.797	2.839	8.91
80)	T	1,3,5-Trimethy...	3.245	3.172	3.924	3.210	3.172	3.338	3.343	8.70
81)	T	trans-1,4-Dich...	0.203	0.189	0.234	0.200	0.204	0.225	0.209	8.14
82)	T	4-Chlorotoluene	2.826	2.738	3.331	2.730	2.704	2.851	2.864	8.26
83)	T	tert-Butylbenzene	2.997	2.802	3.547	2.928	2.833	3.014	3.020	9.00
84)	T	1,2,4-Trimethy...	3.148	3.060	3.852	3.171	3.176	3.340	3.291	8.80
85)	T	sec-Butylbenzene	4.483	4.301	5.388	4.342	4.230	4.411	4.526	9.53
86)	T	p-Isopropyltol...	3.467	3.392	4.318	3.566	3.557	3.754	3.676	9.17
87)	T	1,3-Dichlorobe...	1.871	1.736	2.121	1.750	1.783	1.871	1.855	7.69
88)	T	1,4-Dichlorobe...	1.838	1.717	2.062	1.687	1.706	1.761	1.795	7.88
89)	T	n-Butylbenzene	3.290	3.137	3.991	3.280	3.275	3.378	3.392	8.94
90)	T	Hexachloroethane	0.808	0.713	0.894	0.713	0.701	0.737	0.761	9.97
91)	T	1,2-Dichlorobe...	1.589	1.455	1.790	1.478	1.508	1.571	1.565	7.80
92)	T	1,2-Dibromo-3-...	0.084	0.083	0.101	0.090	0.090	0.098	0.091	7.80
93)	T	1,2,4-Trichlor...	0.781	0.726	0.946	0.794	0.838	0.864	0.825	9.26
94)	T	Hexachlorobuta...	0.581	0.492	0.630	0.473	0.473	0.471	0.520	13.17
95)	T	Naphthalene	1.028	1.049	1.403	1.381	1.484	1.595	1.323	17.61
96)	T	1,2,3-Trichlor...	0.628	0.603	0.757	0.671	0.709	0.720	0.681	8.61

(#) = Out of Range



Response = 5.378e-001 * Amt + 1.076e-001
Coef of Det (r^2) = 0.997789 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y071825S.M
Calibration Table Last Updated: Sat Jul 19 01:50:49 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:06:34 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	535707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	862980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	692947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	302335	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	25286	4.663	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	9.320%#		
35) Dibromofluoromethane	7.634	113	26103	4.768	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.540%#		
50) Toluene-d8	10.103	98	103295	4.758	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.520%#		
62) 4-Bromofluorobenzene	12.401	95	35295	5.165	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.320%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	26273	5.776	ug/l	97
3) Chloromethane	2.068	50	42286	5.467	ug/l	98
4) Vinyl Chloride	2.202	62	50232	5.126	ug/l	99
5) Bromomethane	2.598	94	37924	5.362	ug/l	94
6) Chloroethane	2.732	64	33229	5.077	ug/l	99
7) Trichlorofluoromethane	3.055	101	60508	5.319	ug/l	97
8) Diethyl Ether	3.452	74	15984	5.369	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.811	101	32487	5.437	ug/l	97
10) Methyl Iodide	4.013	142	24927	4.016	ug/l	98
11) Tert butyl alcohol	4.848	59	7260	22.015	ug/l #	73
12) 1,1-Dichloroethene	3.787	96	30134	5.294	ug/l	91
13) Acrolein	3.647	56	5246	35.292	ug/l #	57
14) Allyl chloride	4.378	41	43390	5.003	ug/l	98
15) Acrylonitrile	5.055	53	28037	24.863	ug/l	97
16) Acetone	3.866	43	30383	30.907	ug/l	96
17) Carbon Disulfide	4.104	76	90620	5.253	ug/l	96
18) Methyl Acetate	4.391	43	13210	3.969	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	63167	4.626	ug/l	97
20) Methylene Chloride	4.616	84	79161	3.739	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	31968	5.045	ug/l	99
22) Diisopropyl ether	6.024	45	85560	4.650	ug/l	96
23) Vinyl Acetate	5.957	43	207469	22.380	ug/l	100
24) 1,1-Dichloroethane	5.909	63	56892	4.923	ug/l	97
25) 2-Butanone	6.896	43	34740	24.634	ug/l	90
26) 2,2-Dichloropropane	6.878	77	52318	5.166	ug/l	97
27) cis-1,2-Dichloroethene	6.890	96	35196	4.820	ug/l	96
28) Bromochloromethane	7.244	49	21127	4.714	ug/l	98
29) Tetrahydrofuran	7.256	42	19429	21.760	ug/l	98
30) Chloroform	7.420	83	57601	4.941	ug/l	96
31) Cyclohexane	7.701	56	62949	5.830	ug/l #	81
32) 1,1,1-Trichloroethane	7.616	97	53871	5.093	ug/l	99
36) 1,1-Dichloropropene	7.835	75	43575	5.053	ug/l	98
37) Ethyl Acetate	6.988	43	15819m	4.940	ug/l	
38) Carbon Tetrachloride	7.817	117	47654	5.087	ug/l	97
39) Methylcyclohexane	9.109	83	56680	5.079	ug/l	99
40) Benzene	8.079	78	128094	4.934	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:06:34 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	6844	4.049	ug/l	#	86
42) 1,2-Dichloroethane	8.158	62	31142	4.821	ug/l		98
43) Isopropyl Acetate	8.201	43	27300	4.292	ug/l	#	85
44) Trichloroethene	8.865	130	34709	5.205	ug/l		92
45) 1,2-Dichloropropane	9.140	63	30343	5.005	ug/l		94
46) Dibromomethane	9.231	93	15218	4.856	ug/l		95
47) Bromodichloromethane	9.420	83	42002	4.849	ug/l		99
48) Methyl methacrylate	9.219	41	12765	4.156	ug/l		98
49) 1,4-Dioxane	9.225	88	2816	85.247	ug/l	#	89
51) 4-Methyl-2-Pentanone	9.999	43	64649	20.023	ug/l		99
52) Toluene	10.170	92	74665	4.626	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	33067	4.447	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	41220	4.599	ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	19458	4.724	ug/l		97
56) Ethyl methacrylate	10.438	69	20183	3.925	ug/l		99
57) 1,3-Dichloropropane	10.713	76	33346	4.686	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	46689	18.550	ug/l		100
59) 2-Hexanone	10.761	43	42954	20.239	ug/l		99
60) Dibromochloromethane	10.908	129	24530	4.548	ug/l		99
61) 1,2-Dibromoethane	11.011	107	17039	4.555	ug/l		100
64) Tetrachloroethene	10.645	164	38436	5.427	ug/l		94
65) Chlorobenzene	11.438	112	79744	4.877	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.511	131	27645	4.957	ug/l		99
67) Ethyl Benzene	11.517	91	138078	4.764	ug/l		96
68) m/p-Xylenes	11.627	106	104654	9.414	ug/l		97
69) o-Xylene	11.950	106	46850	4.541	ug/l		98
70) Styrene	11.962	104	73426	4.345	ug/l		99
71) Bromoform	12.127	173	12858	4.541	ug/l	#	99
73) Isopropylbenzene	12.249	105	126243	4.925	ug/l		99
74) N-amyl acetate	12.066	43	20632	4.269	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	16857	4.544	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	18629m	4.765	ug/l		
77) Bromobenzene	12.529	156	27477	4.942	ug/l		100
78) n-propylbenzene	12.590	91	150755	4.939	ug/l		100
79) 2-Chlorotoluene	12.676	91	85237	4.965	ug/l		99
80) 1,3,5-Trimethylbenzene	12.730	105	98096	4.852	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	6126	4.843	ug/l		98
82) 4-Chlorotoluene	12.773	91	85449	4.935	ug/l		99
83) tert-Butylbenzene	12.993	119	90600	4.961	ug/l		98
84) 1,2,4-Trimethylbenzene	13.041	105	95160	4.782	ug/l		99
85) sec-Butylbenzene	13.169	105	135535	4.953	ug/l		98
86) p-Isopropyltoluene	13.285	119	104828	4.717	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	56578	5.043	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	55584	5.121	ug/l		95
89) n-Butylbenzene	13.614	91	99472	4.850	ug/l		98
90) Hexachloroethane	13.877	117	24435	5.310	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	48036	5.076	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2548	4.626	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	23607	4.732	ug/l		99
94) Hexachlorobutadiene	15.023	225	17559	5.583	ug/l		98
95) Naphthalene	15.139	128	31085	3.885	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	18973	4.606	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:06:34 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

ICAL Form

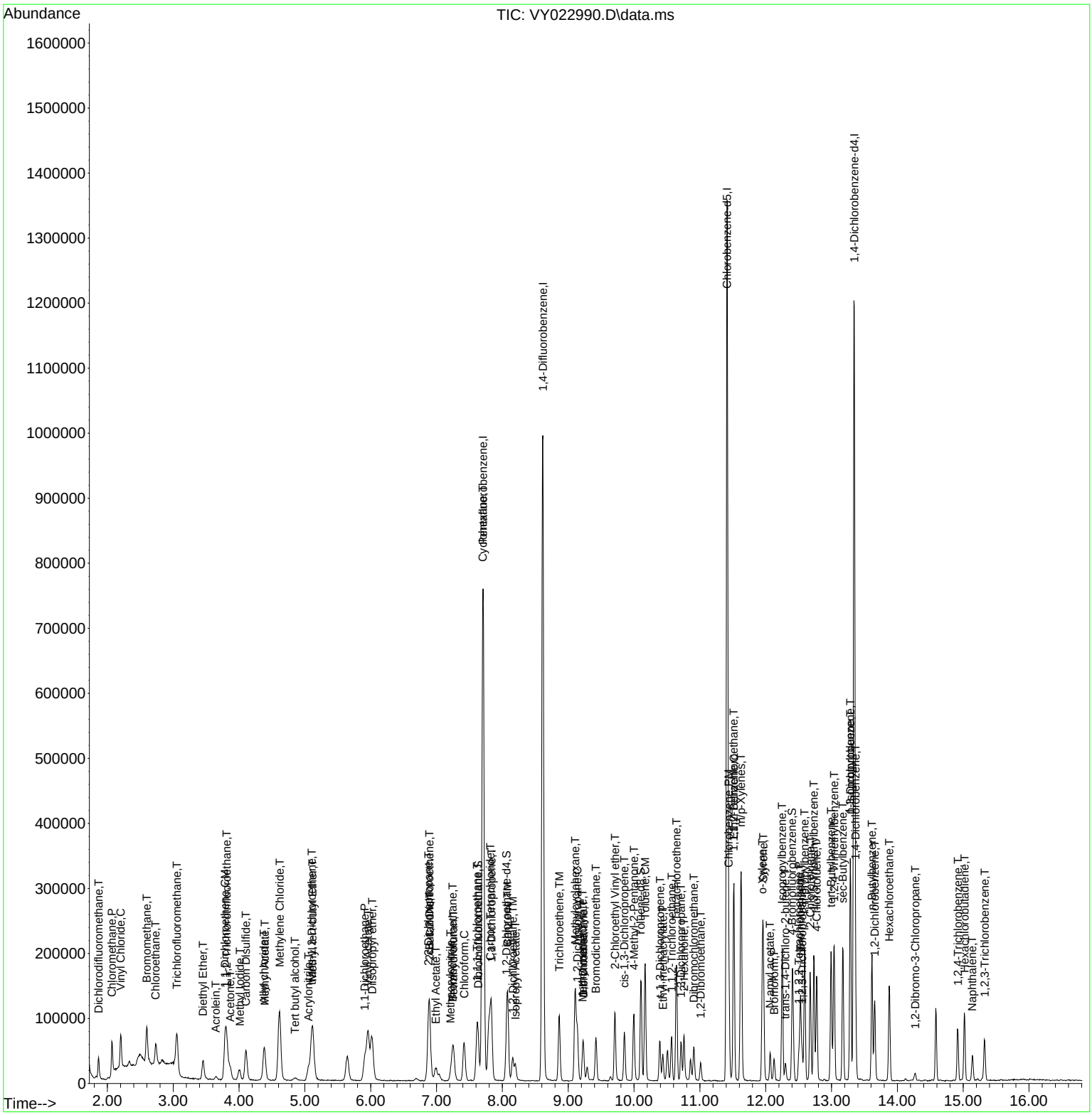
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

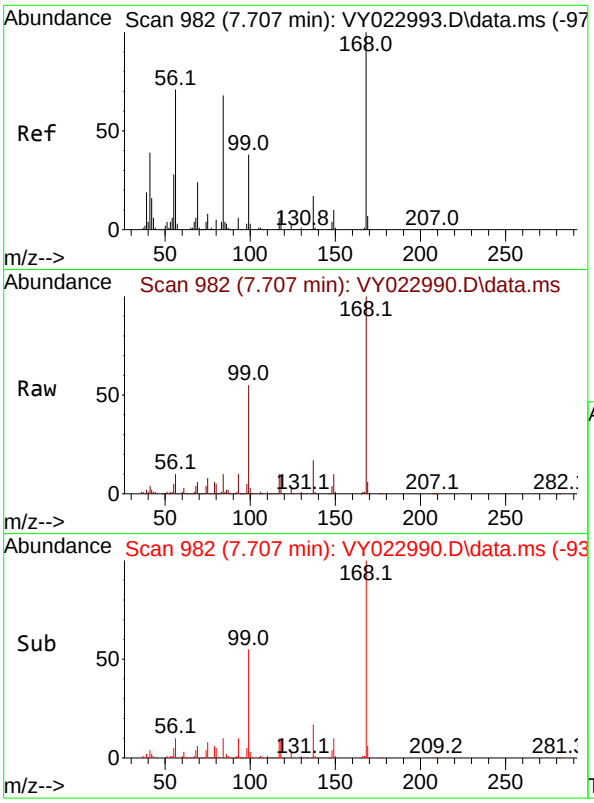
Quant Time: Jul 19 01:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:06:34 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

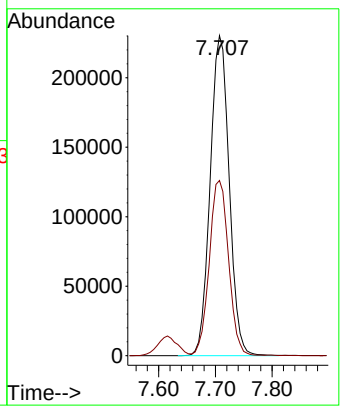
Tgt Ion:168 Resp: 53570

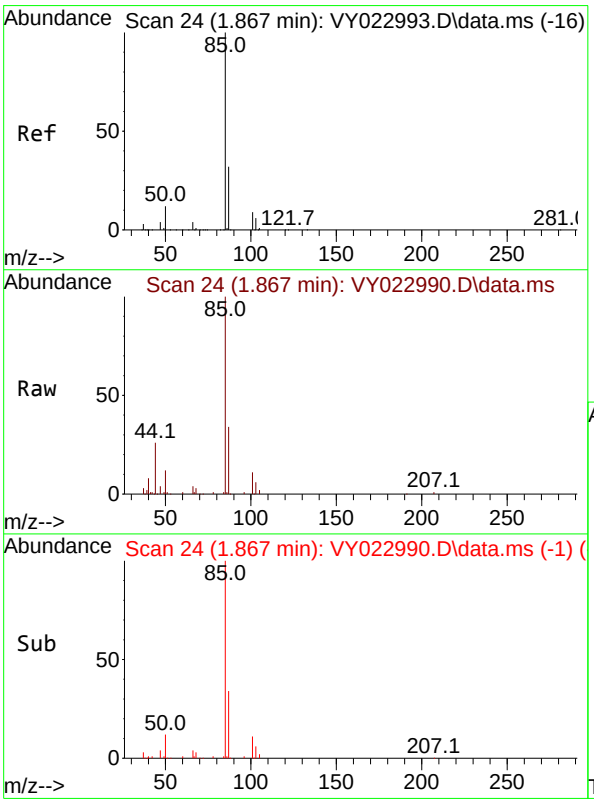
Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.4	66.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

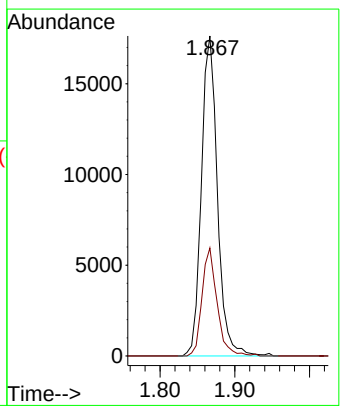


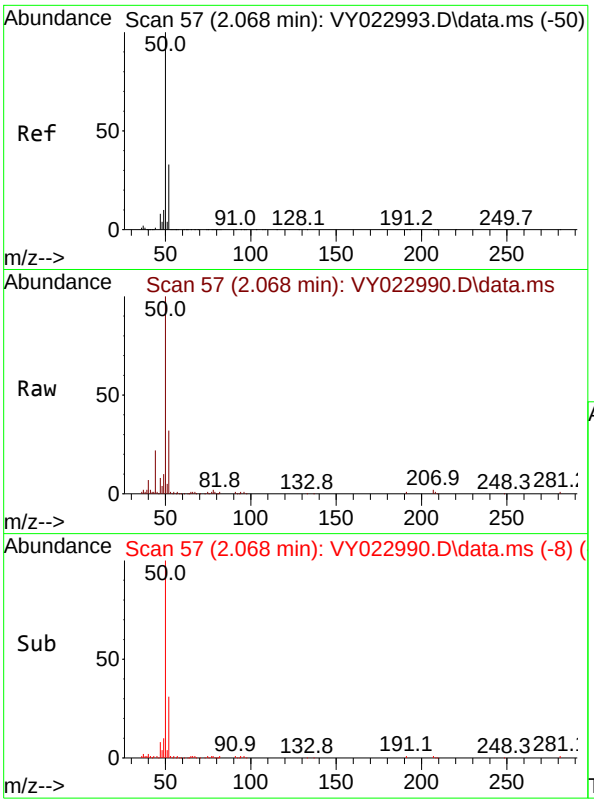


#2
Dichlorodifluoromethane
Concen: 5.776 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 85 Resp: 26273

Ion	Ratio	Lower	Upper
85	100		
87	33.8	16.0	47.9

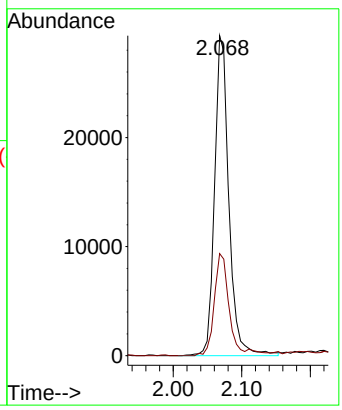




#3
Chloromethane
Concen: 5.467 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 50 Resp: 4228

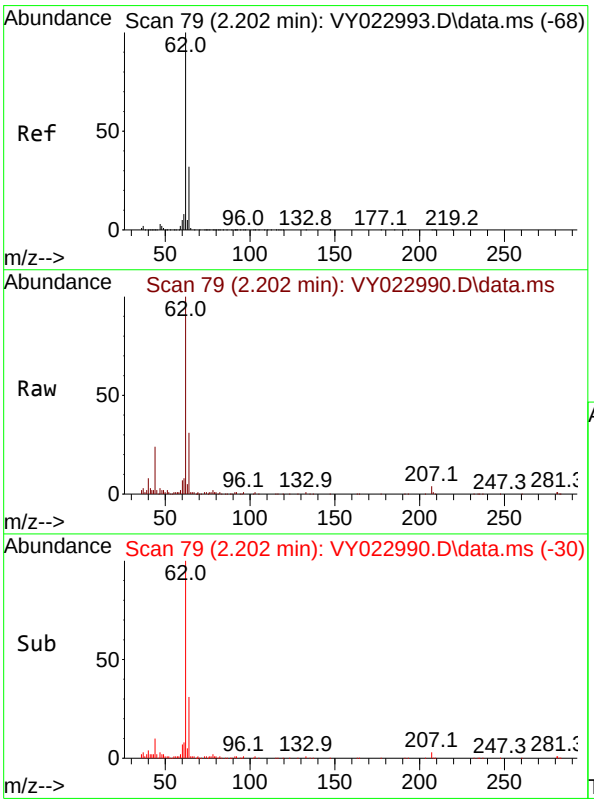
Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

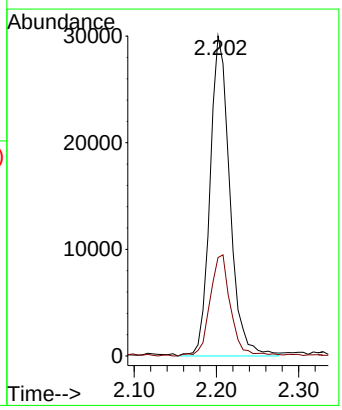
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

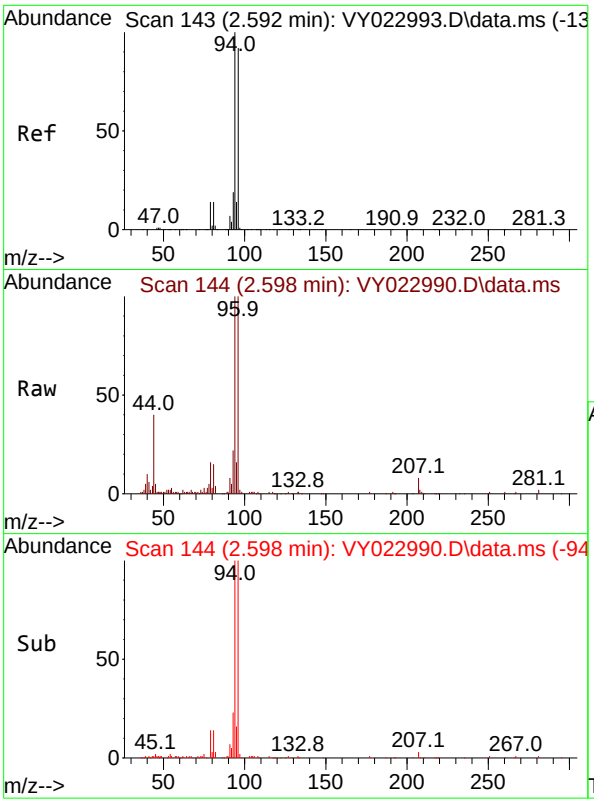


#4
Vinyl Chloride
Concen: 5.126 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 62 Resp: 50232

Ion	Ratio	Lower	Upper
62	100		
64	30.8	25.2	37.8





#5
Bromomethane
Concen: 5.362 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

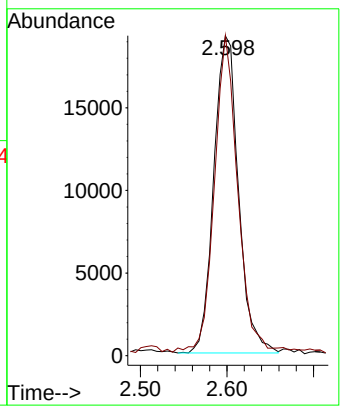
Tgt Ion: 94 Resp: 3792

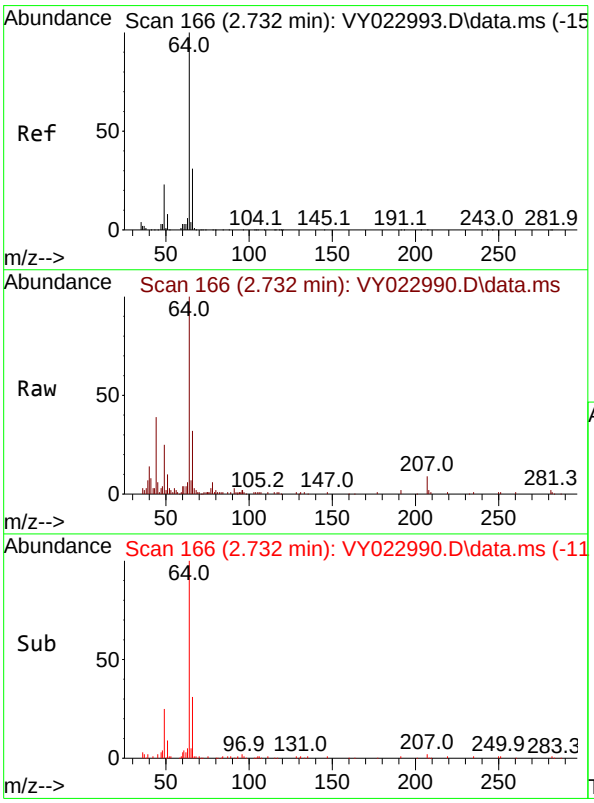
Ion	Ratio	Lower	Upper
94	100		
96	98.5	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

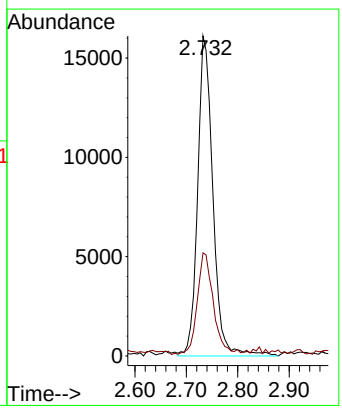


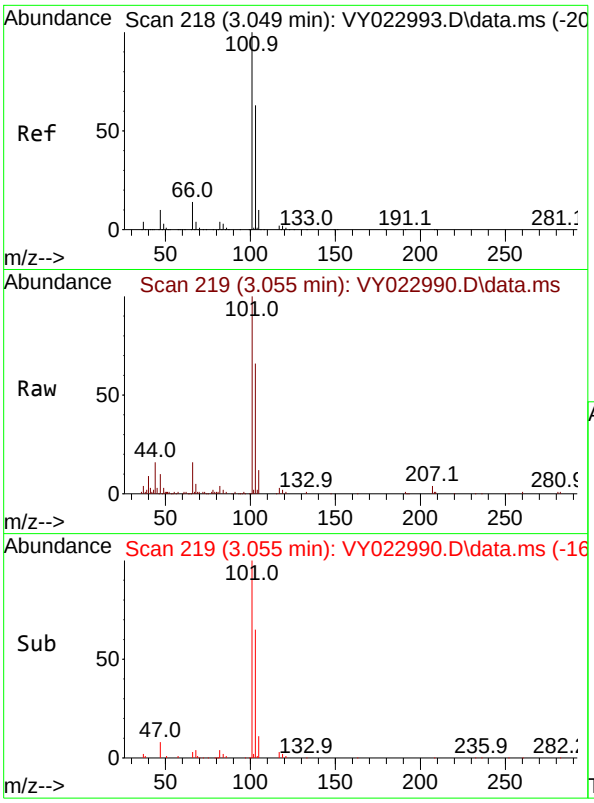


#6
Chloroethane
Concen: 5.077 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 64 Resp: 33229

Ion	Ratio	Lower	Upper
64	100		
66	31.6	24.9	37.3

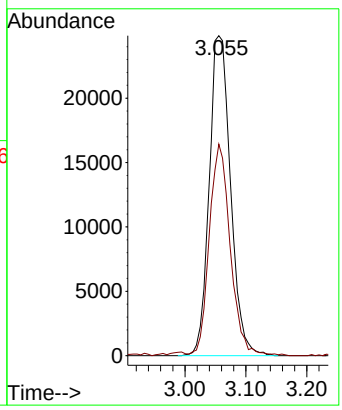




#7
Trichlorofluoromethane
Concen: 5.319 ug/l
RT: 3.055 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:101 Resp: 6050

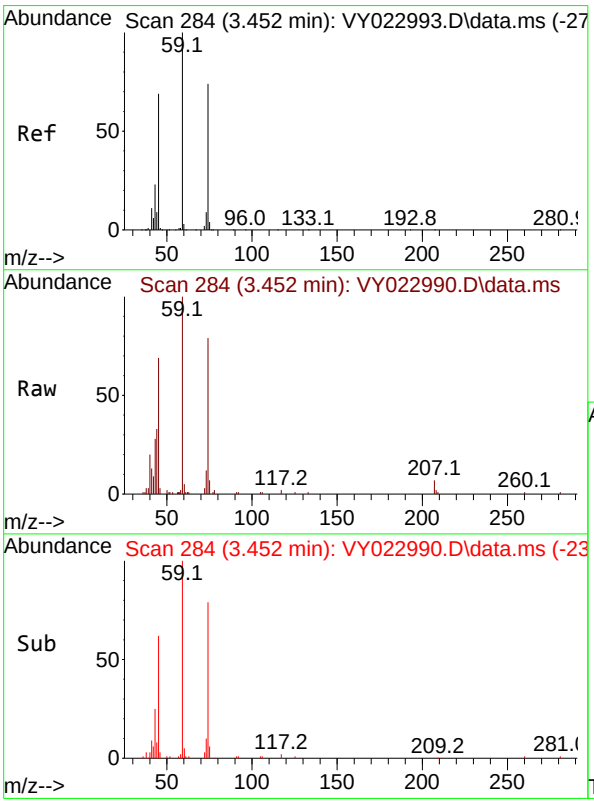
Ion	Ratio	Lower	Upper
101	100		
103	65.8	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

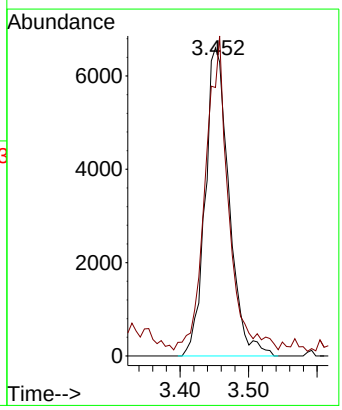
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

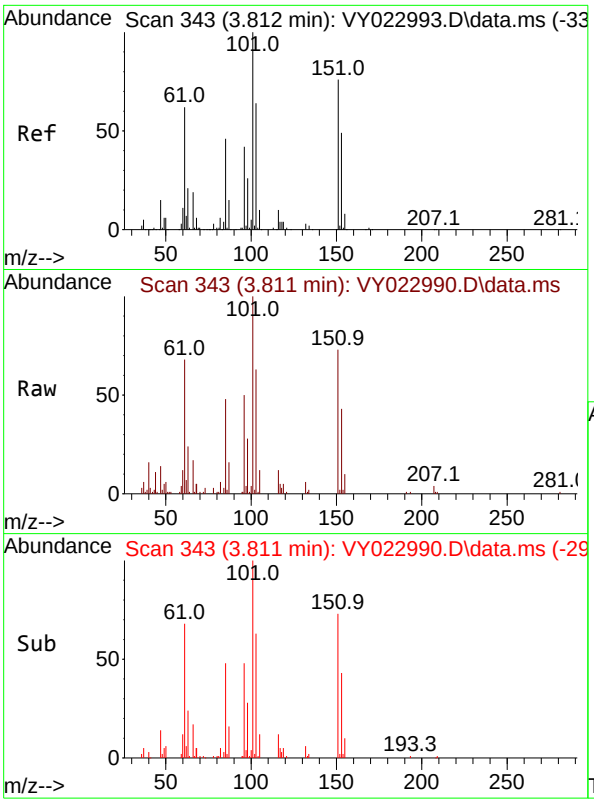


#8
Diethyl Ether
Concen: 5.369 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 74 Resp: 15984

Ion	Ratio	Lower	Upper
74	100		
45	97.9	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.437 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

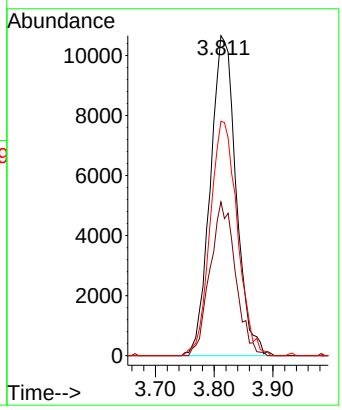
Tgt Ion:101 Resp: 3248

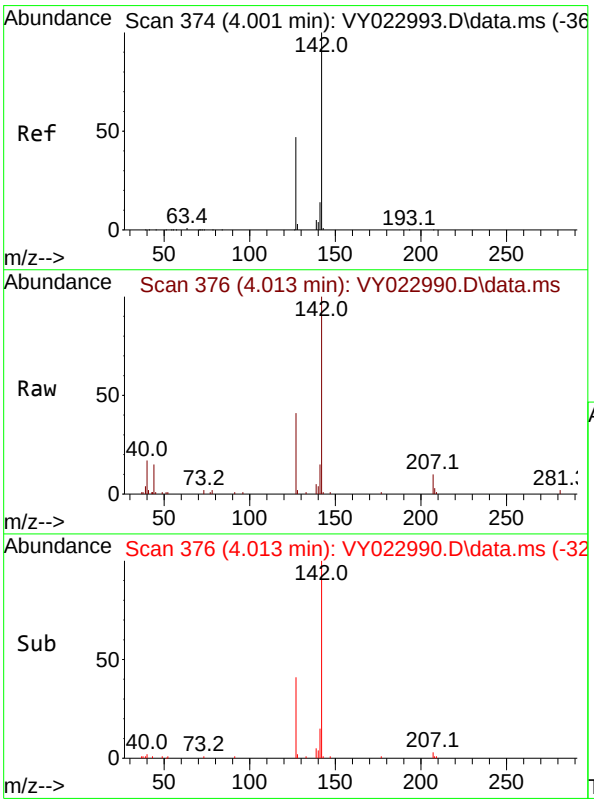
Ion	Ratio	Lower	Upper
101	100		
85	47.6	37.2	55.8
151	77.2	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

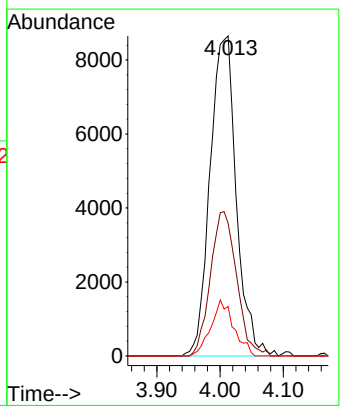


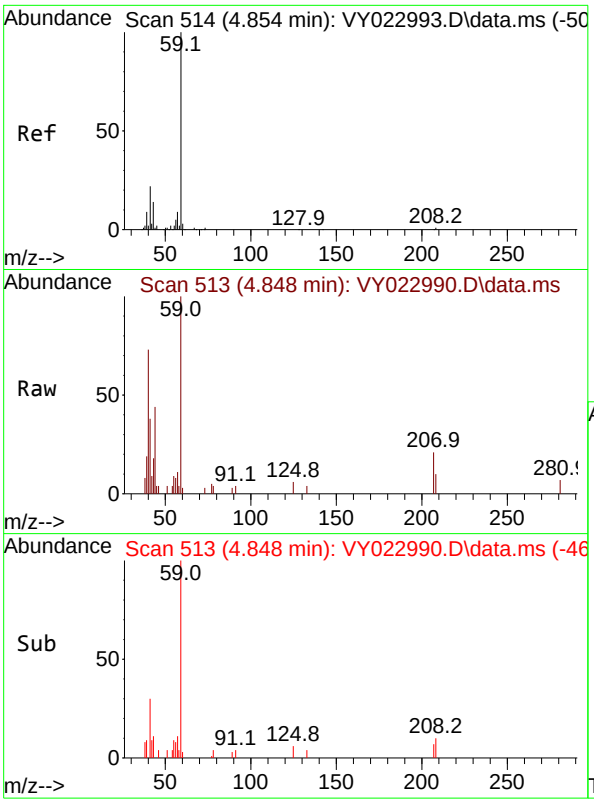


#10
Methyl Iodide
Concen: 4.016 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.012 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:142 Resp: 24927

Ion	Ratio	Lower	Upper
142	100		
127	45.1	37.0	55.6
141	15.3	11.4	17.2

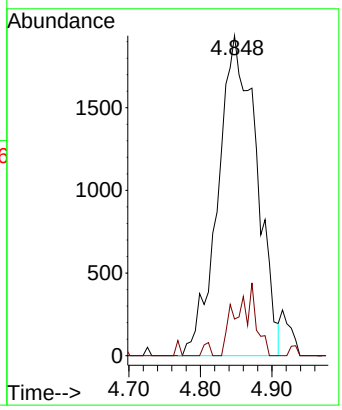




#11
Tert butyl alcohol
Concen: 22.015 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 59 Resp: 726

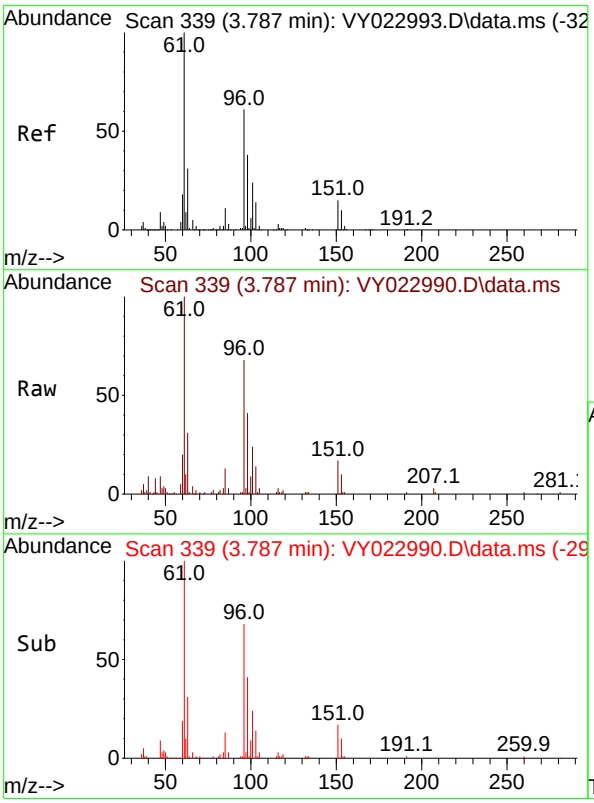
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

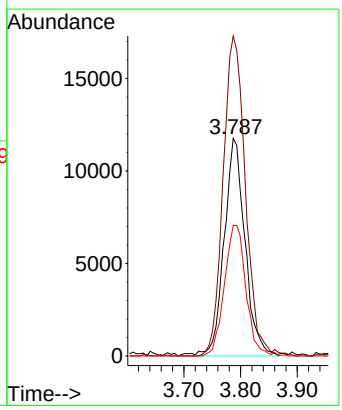
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

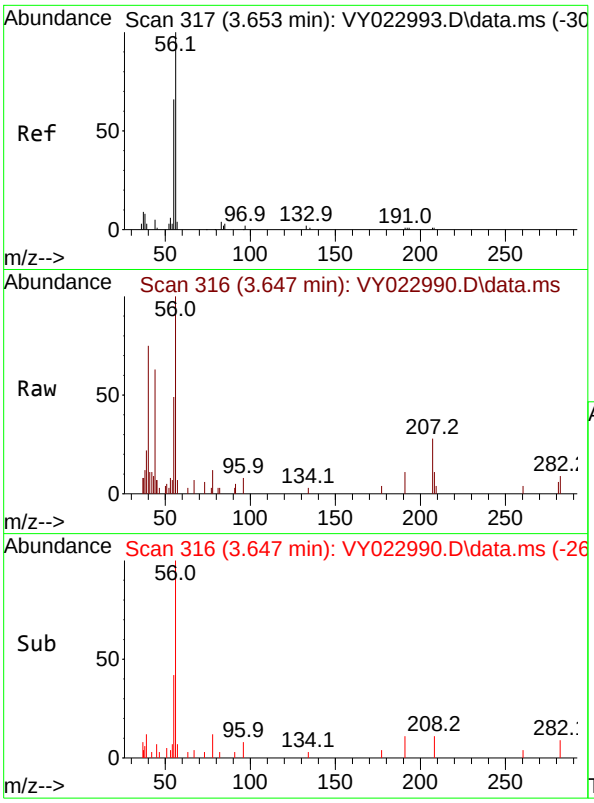


#12
1,1-Dichloroethene
Concen: 5.294 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 96 Resp: 30134

Ion	Ratio	Lower	Upper
96	100		
61	147.1	130.4	195.6
98	60.0	49.6	74.4





#13
Acrolein
Concen: 35.292 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

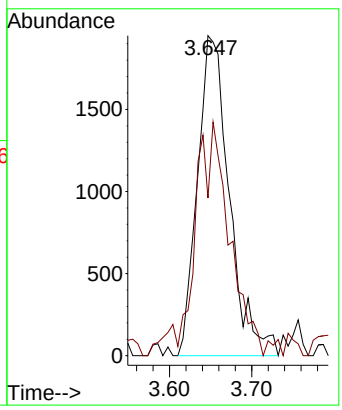
Tgt Ion: 56 Resp: 524

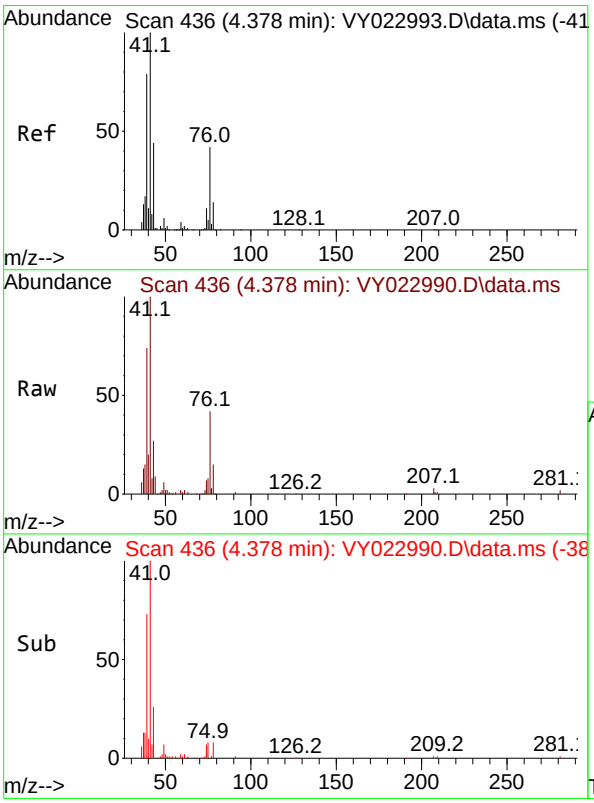
Ion	Ratio	Lower	Upper
56	100		
55	36.0	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

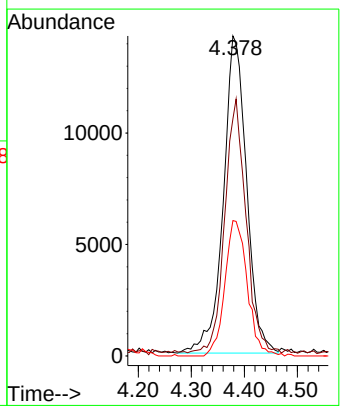


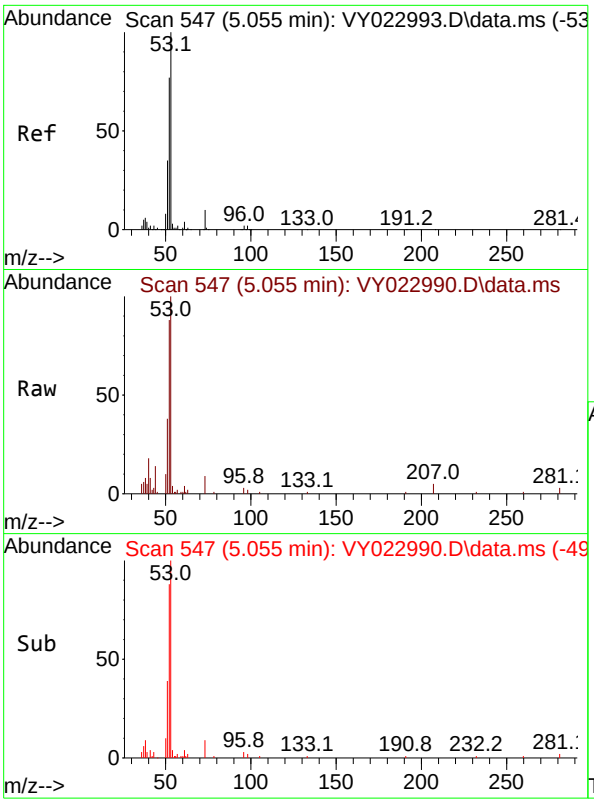


#14
Allyl chloride
Concen: 5.003 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 41 Resp: 43390

Ion	Ratio	Lower	Upper
41	100		
39	73.3	60.1	90.1
76	41.1	32.2	48.4





#15
Acrylonitrile
Concen: 24.863 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

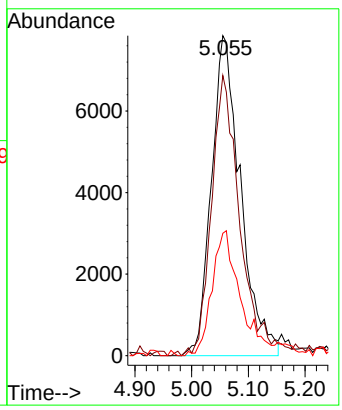
Tgt Ion: 53 Resp: 2803

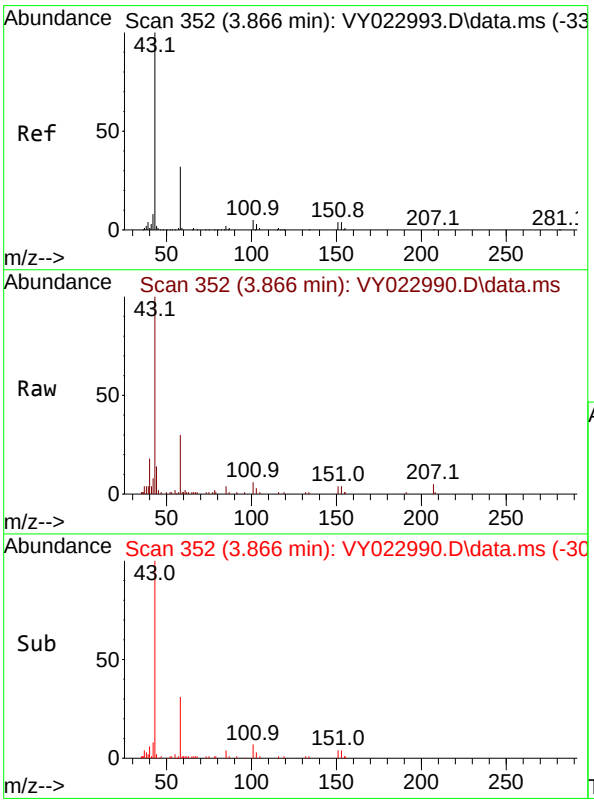
Ion	Ratio	Lower	Upper
53	100		
52	85.1	65.2	97.8
51	37.6	30.3	45.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

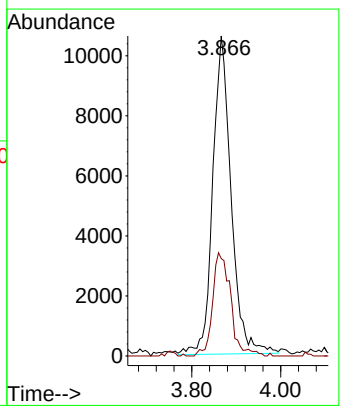


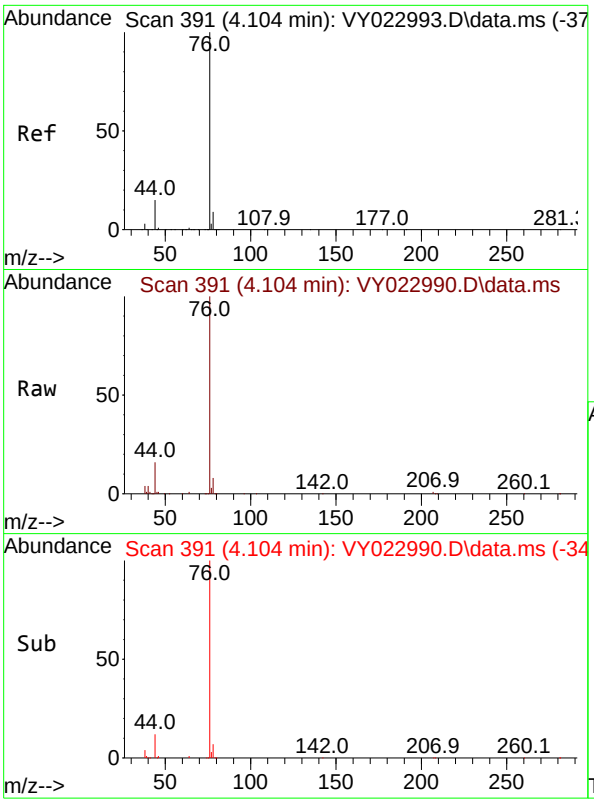


#16
Acetone
Concen: 30.907 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 30383

Ion	Ratio	Lower	Upper
43	100		
58	30.7	26.2	39.4





#17
Carbon Disulfide
Concen: 5.253 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

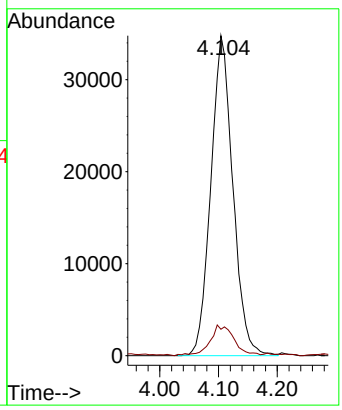
Tgt Ion: 76 Resp: 9062

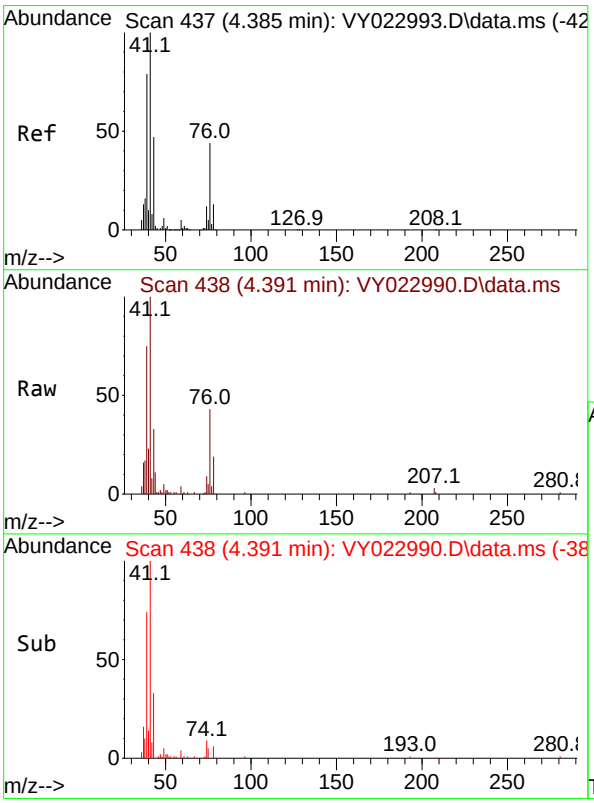
Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

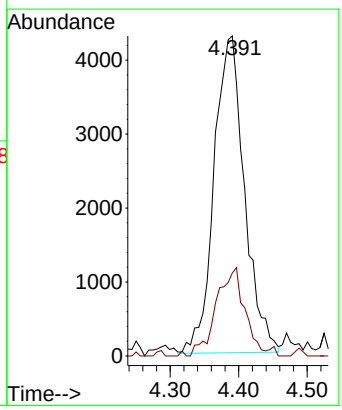


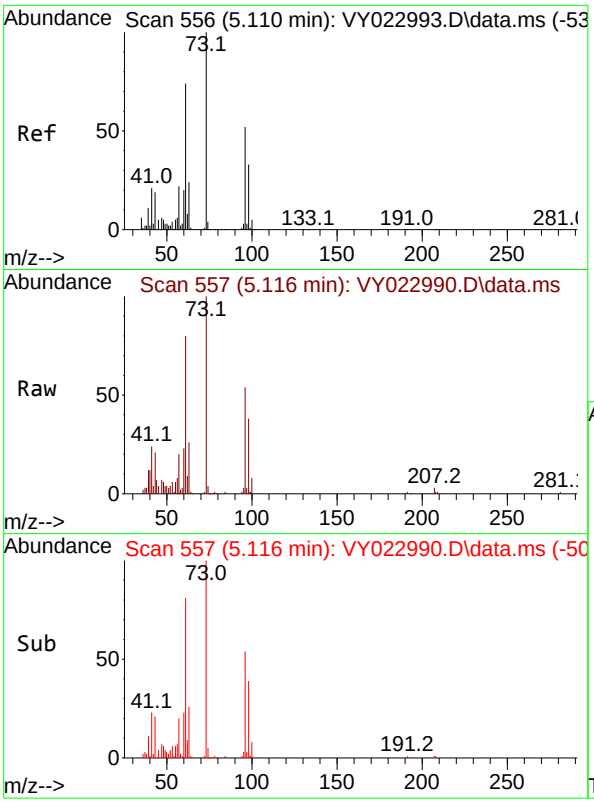


#18
Methyl Acetate
Concen: 3.969 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 13210

Ion	Ratio	Lower	Upper
43	100		
74	26.0	20.1	30.1

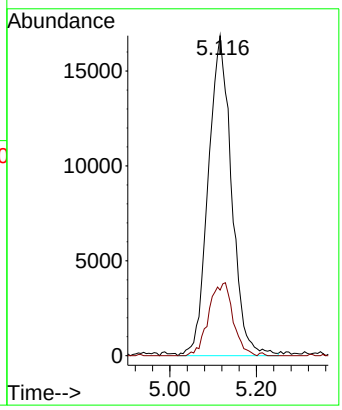




#19
Methyl tert-butyl Ether
Concen: 4.626 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 73 Resp: 6316

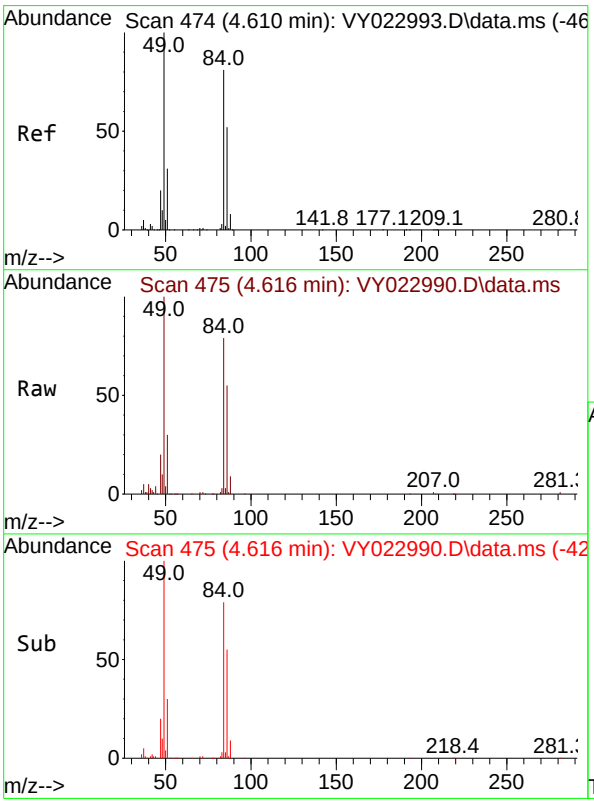
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

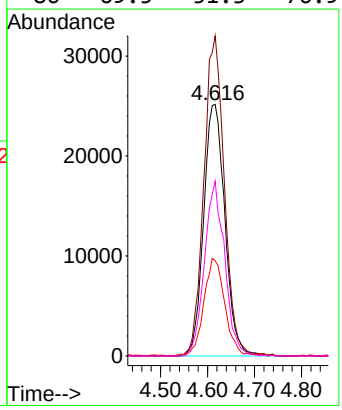
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

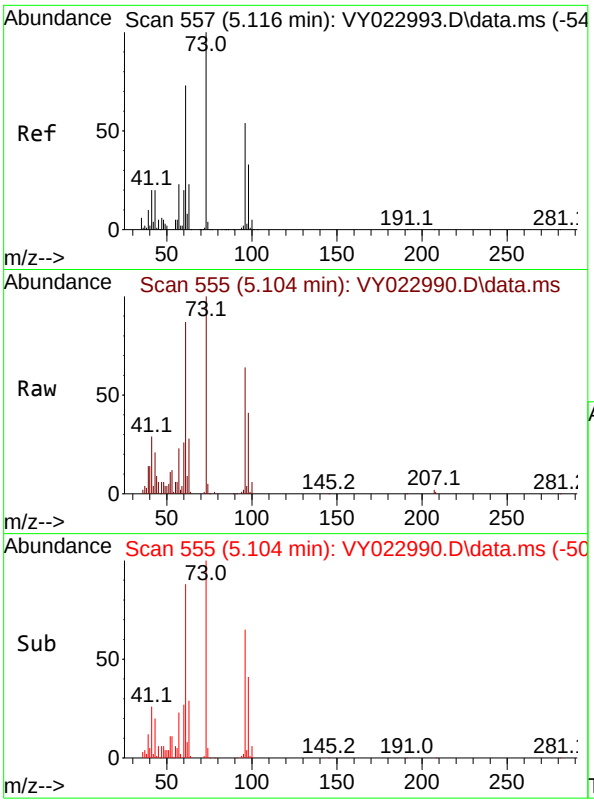


#20
Methylene Chloride
Concen: 3.739 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 84 Resp: 79161

Ion	Ratio	Lower	Upper
84	100		
49	127.3	98.2	147.4
51	37.9	30.5	45.7
86	69.5	51.3	76.9

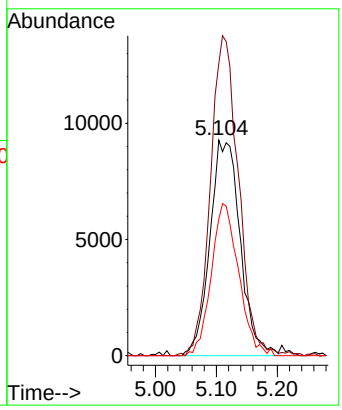




#21
trans-1,2-Dichloroethene
Concen: 5.045 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 96 Resp: 3196

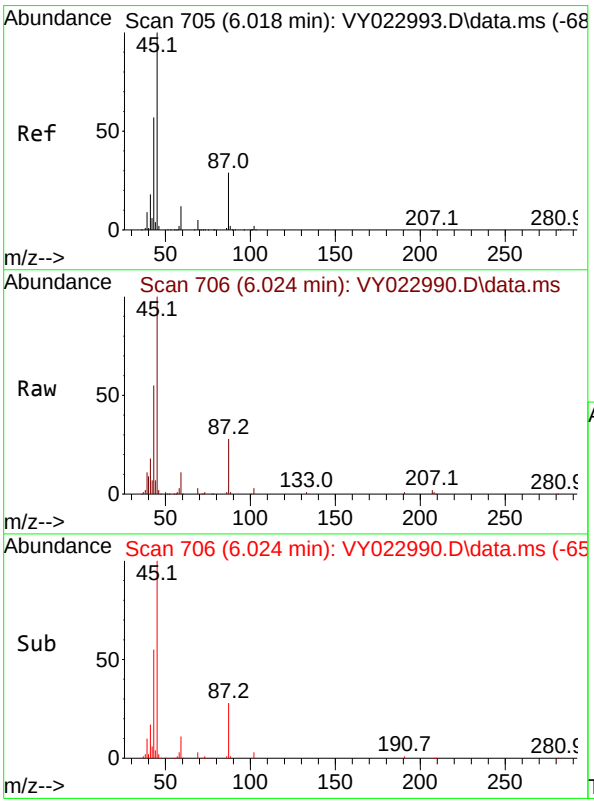
Ion	Ratio	Lower	Upper
96	100		
61	135.0	107.4	161.2
98	63.5	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

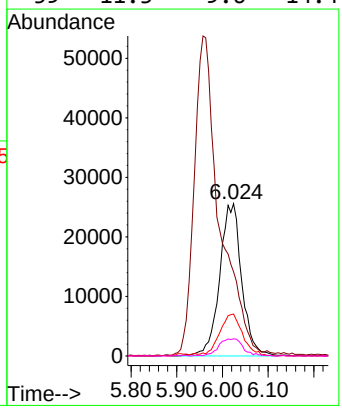
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

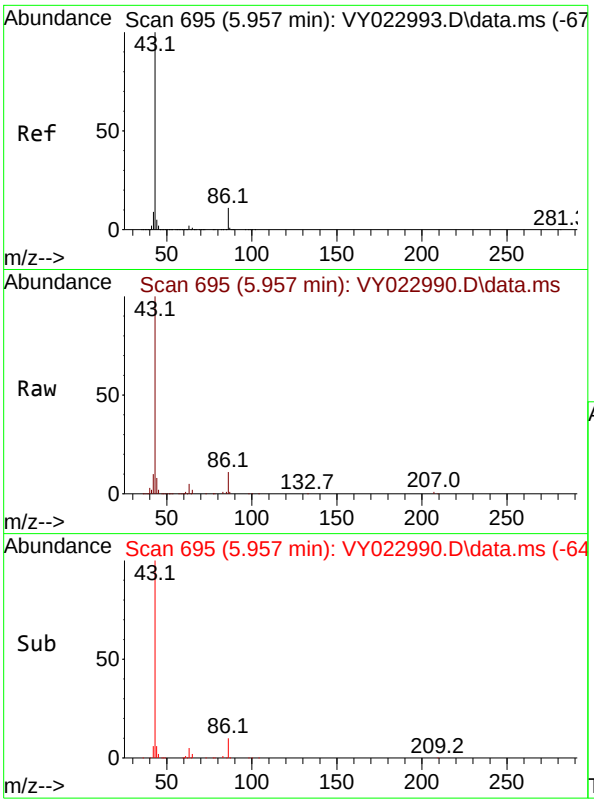


#22
Diisopropyl ether
Concen: 4.650 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 45 Resp: 85560

Ion	Ratio	Lower	Upper
45	100		
43	53.1	45.3	67.9
87	27.5	23.3	34.9
59	11.3	9.6	14.4





#23
Vinyl Acetate
Concen: 22.380 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

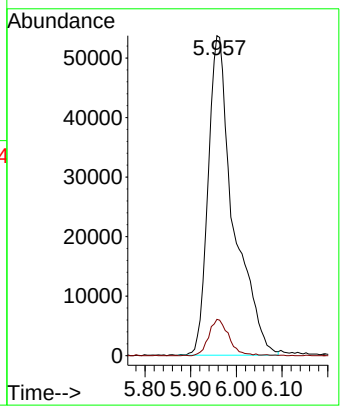
Tgt Ion: 43 Resp: 20746

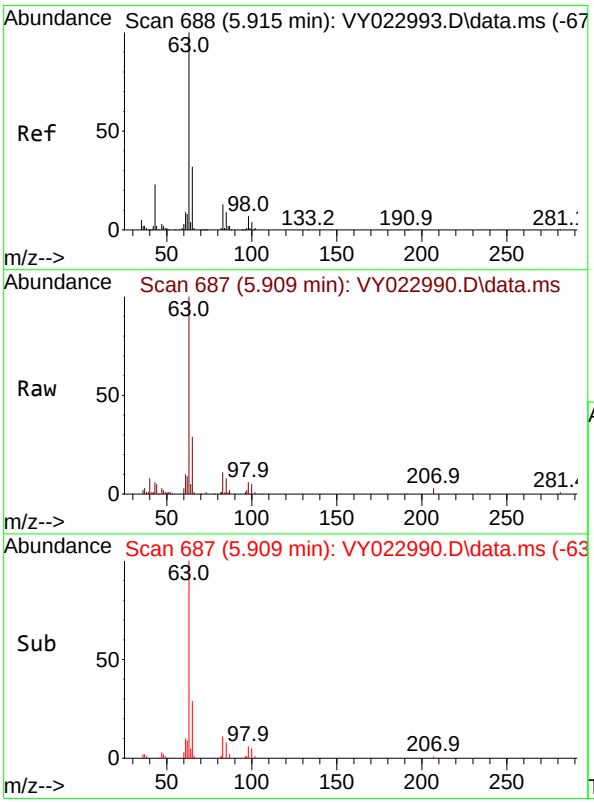
Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

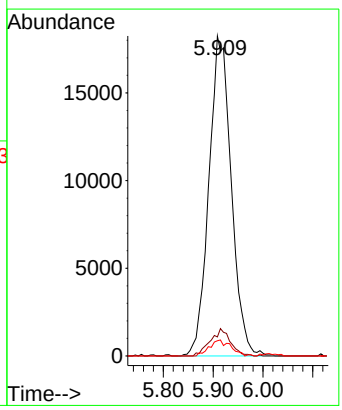


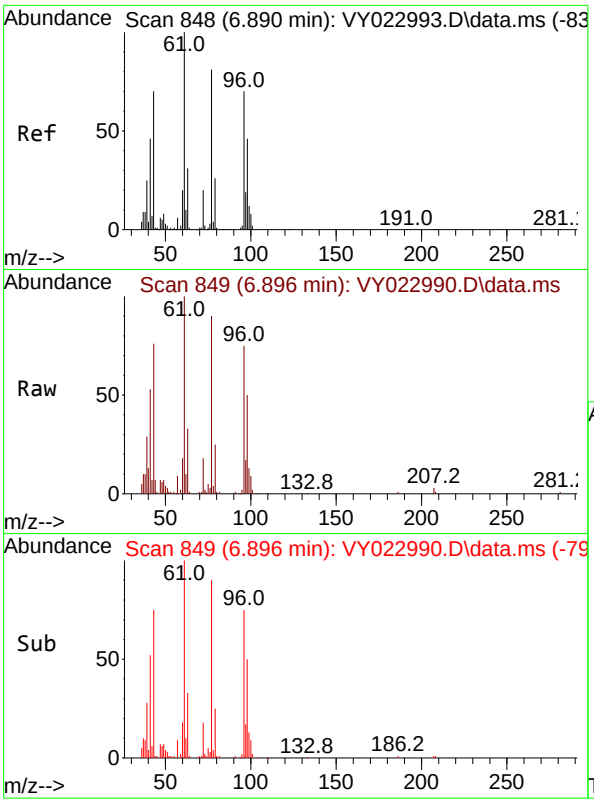


#24
1,1-Dichloroethane
Concen: 4.923 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 63 Resp: 56892

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.5	10.5
100	4.7	2.1	6.2





#25
2-Butanone
Concen: 24.634 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

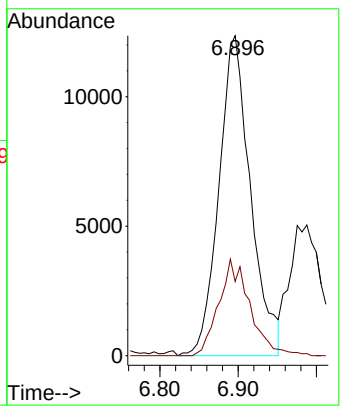
Tgt Ion: 43 Resp: 3474

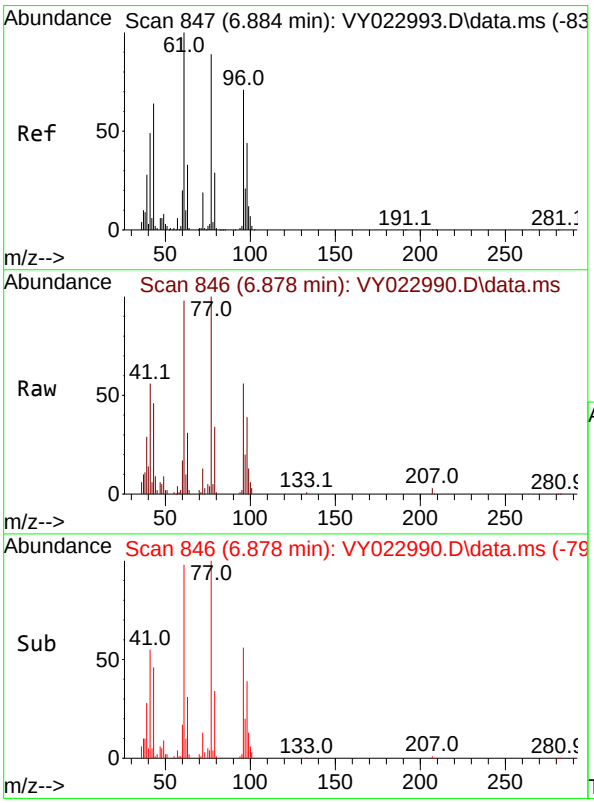
Ion	Ratio	Lower	Upper
43	100		
72	23.2	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

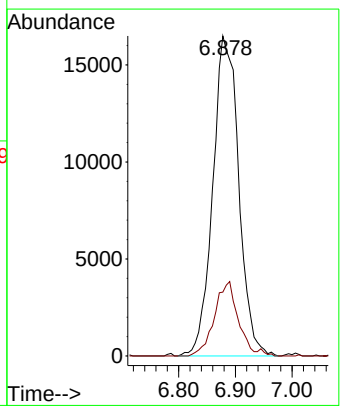


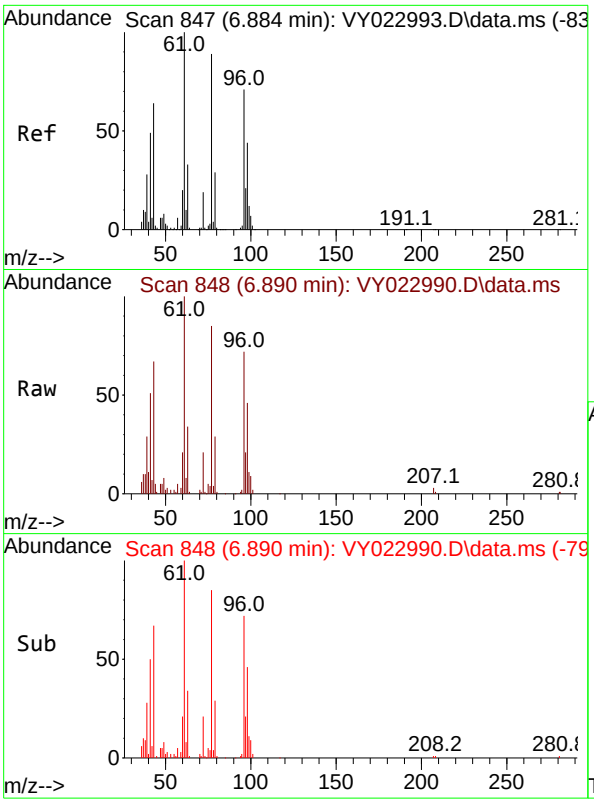


#26
2,2-Dichloropropane
Concen: 5.166 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 77 Resp: 52318

Ion	Ratio	Lower	Upper
77	100		
97	21.1	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 4.820 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

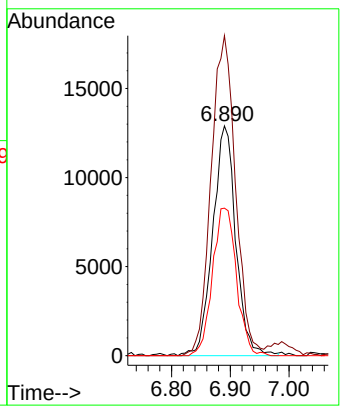
Tgt Ion: 96 Resp: 3519

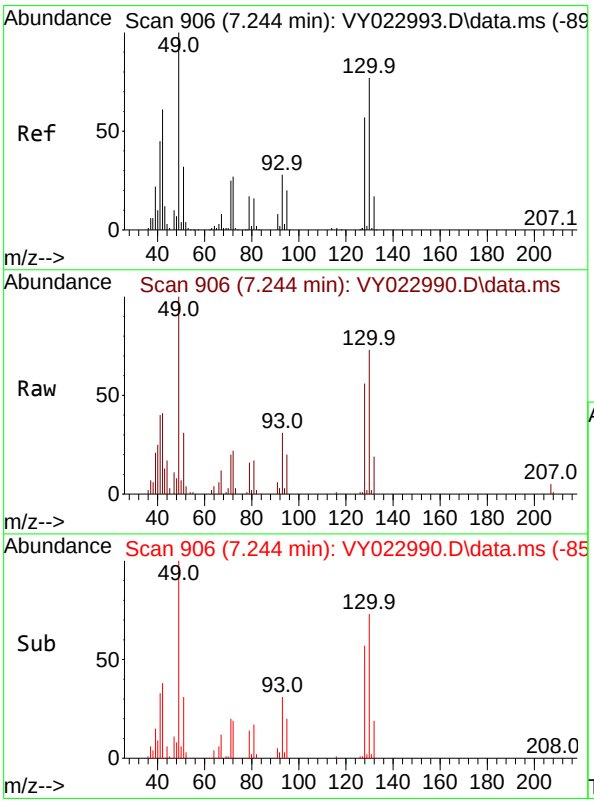
Ion	Ratio	Lower	Upper
96	100		
61	147.9	0.0	286.2
98	66.8	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

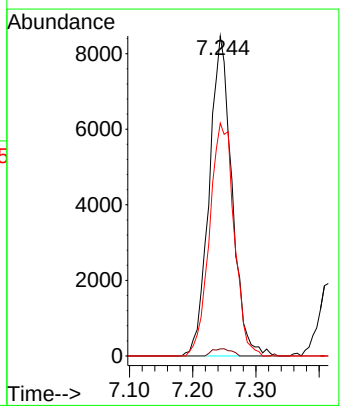


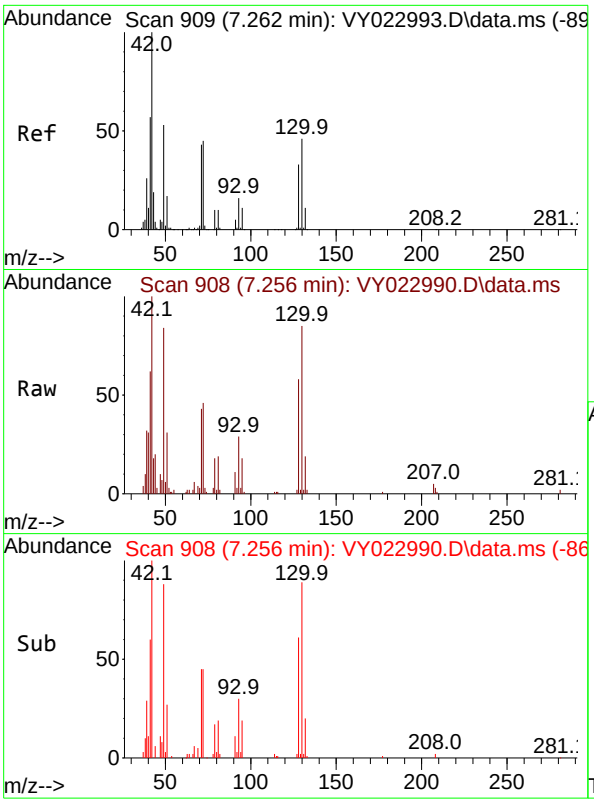


#28
Bromochloromethane
Concen: 4.714 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 49 Resp: 21127

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	78.7	61.8	92.8





#29
Tetrahydrofuran
Concen: 21.760 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

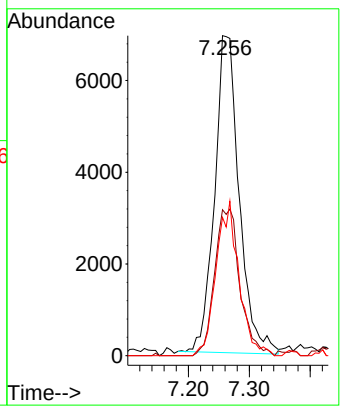
Tgt Ion: 42 Resp: 1942

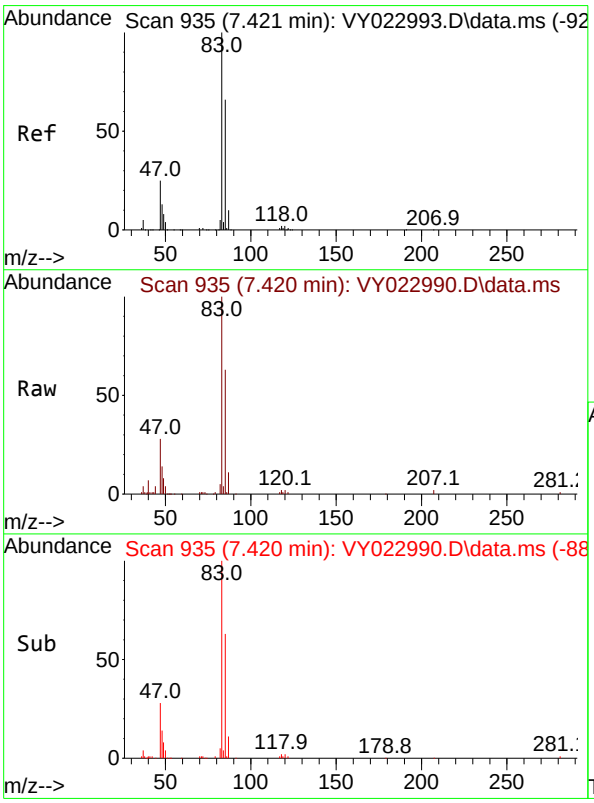
Ion	Ratio	Lower	Upper
42	100		
72	47.6	37.5	56.3
71	45.2	34.2	51.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

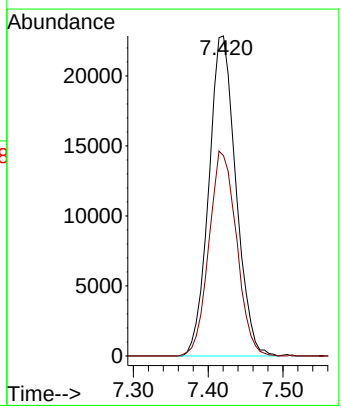


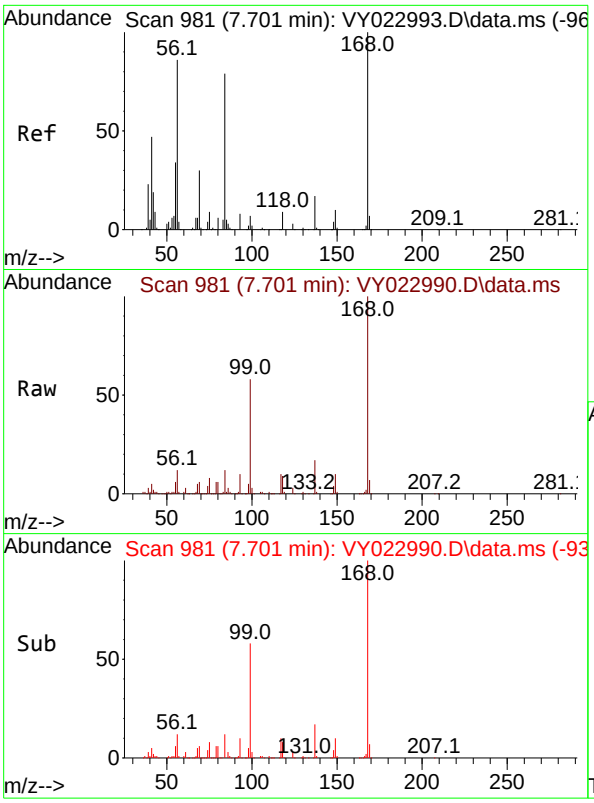


#30
Chloroform
Concen: 4.941 ug/l
RT: 7.420 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 83 Resp: 57601

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.6	78.8

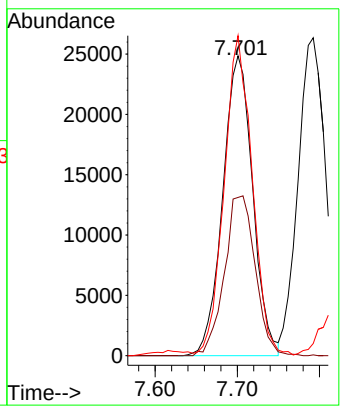




#31
Cyclohexane
Concen: 5.830 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 56 Resp: 6294

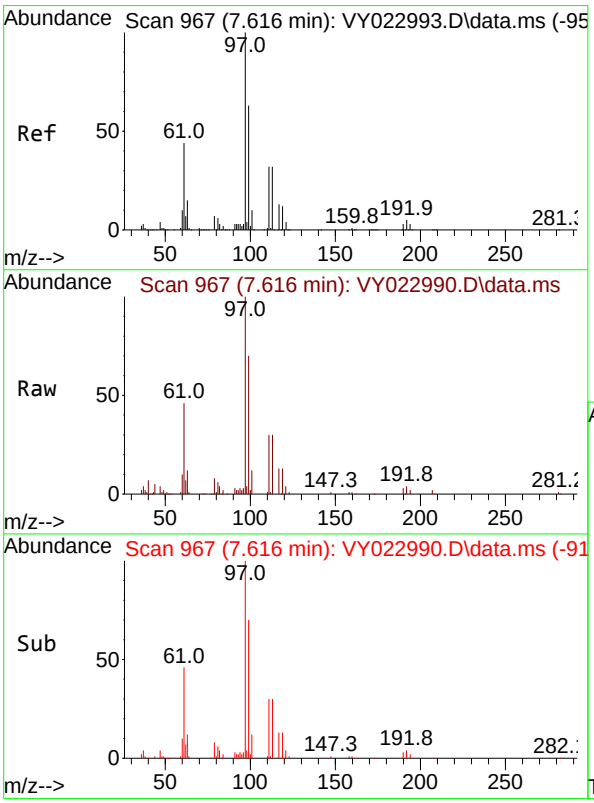
Ion	Ratio	Lower	Upper
56	100		
69	52.8	28.1	42.1#
84	105.4	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

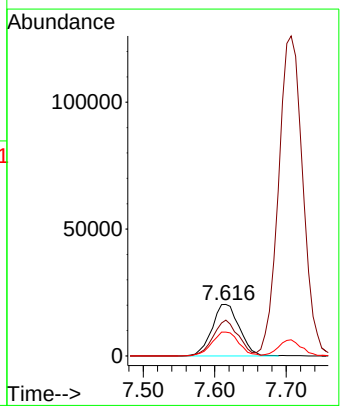
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

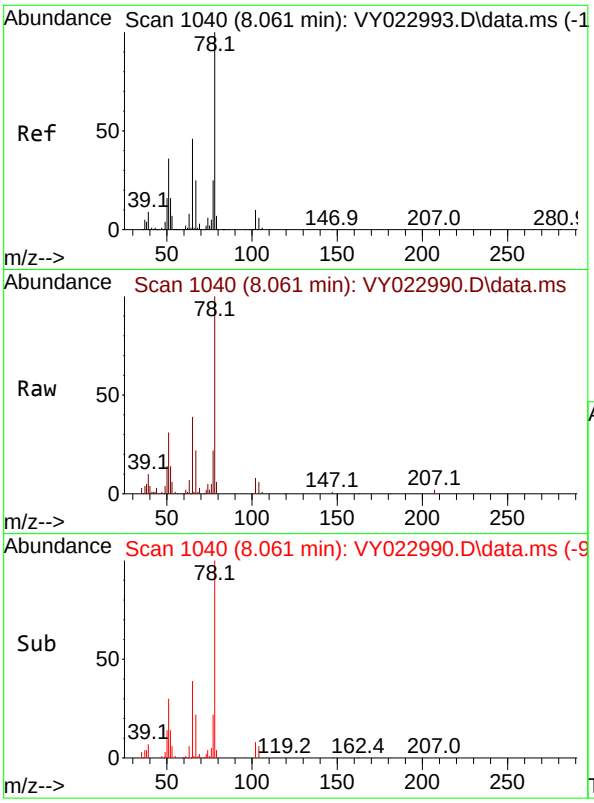


#32
1,1,1-Trichloroethane
Concen: 5.093 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 97 Resp: 53871

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.1	76.7
61	45.8	36.1	54.1

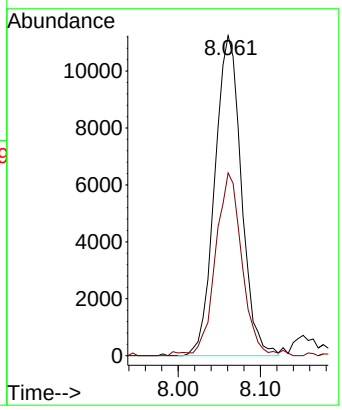




#33
1,2-Dichloroethane-d4
Concen: 4.663 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 65 Resp: 2528

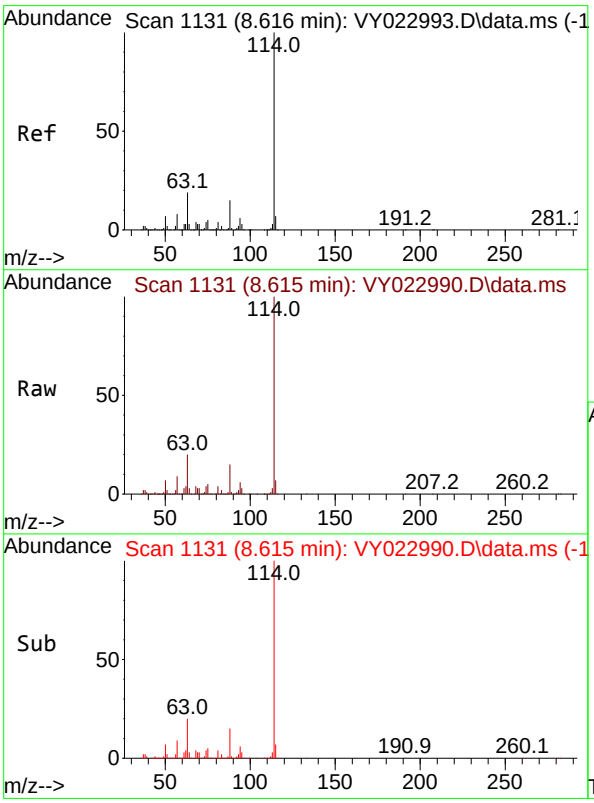
Ion	Ratio	Lower	Upper
65	100		
67	56.6	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

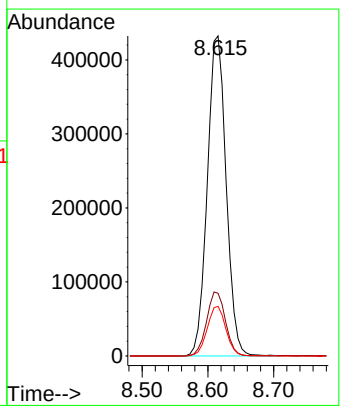
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

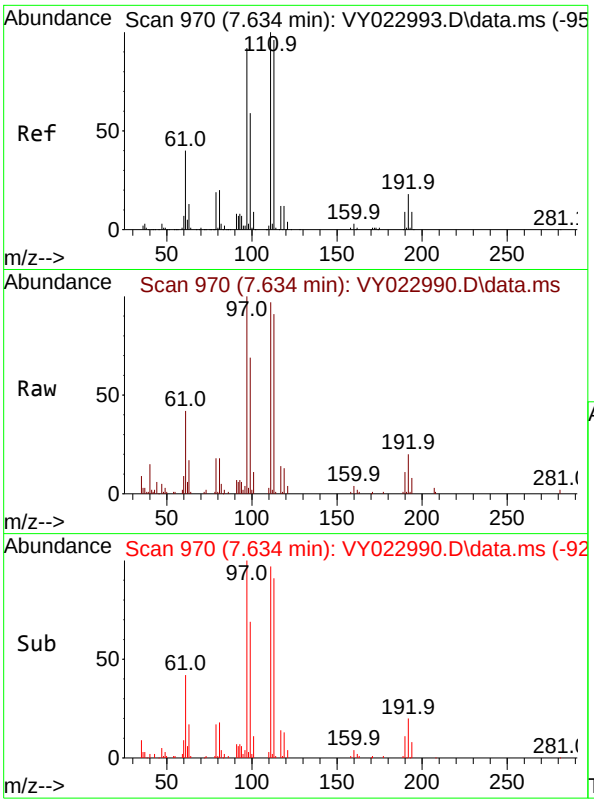


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:114 Resp: 862980

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.8
88	15.5	0.0	30.2





#35
Dibromofluoromethane
Concen: 4.768 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

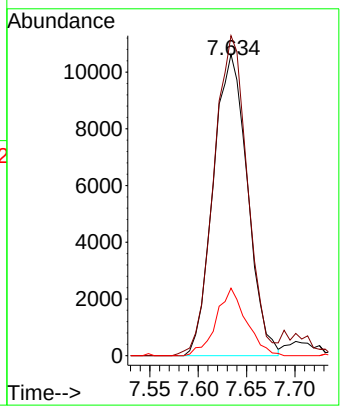
Tgt Ion:113 Resp: 2610

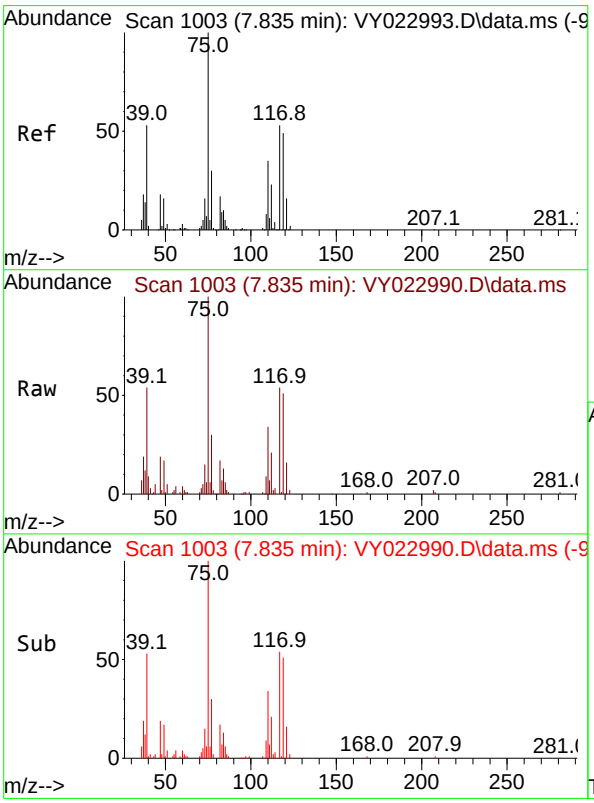
Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.2	124.8
192	19.8	15.3	22.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

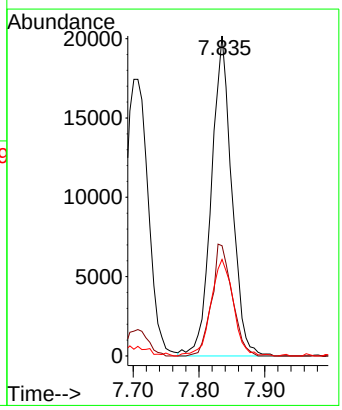


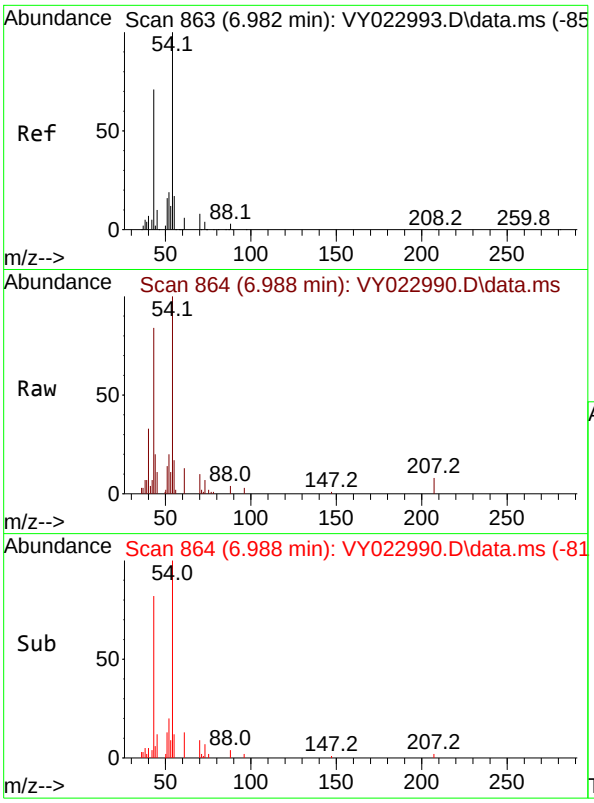


#36
1,1-Dichloropropene
Concen: 5.053 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 43575

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	33.1	24.6	37.0

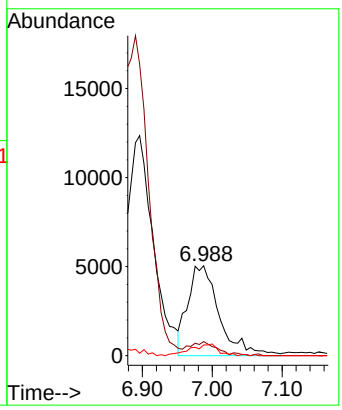




#37
Ethyl Acetate
Concen: 4.940 ug/l m
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 1581

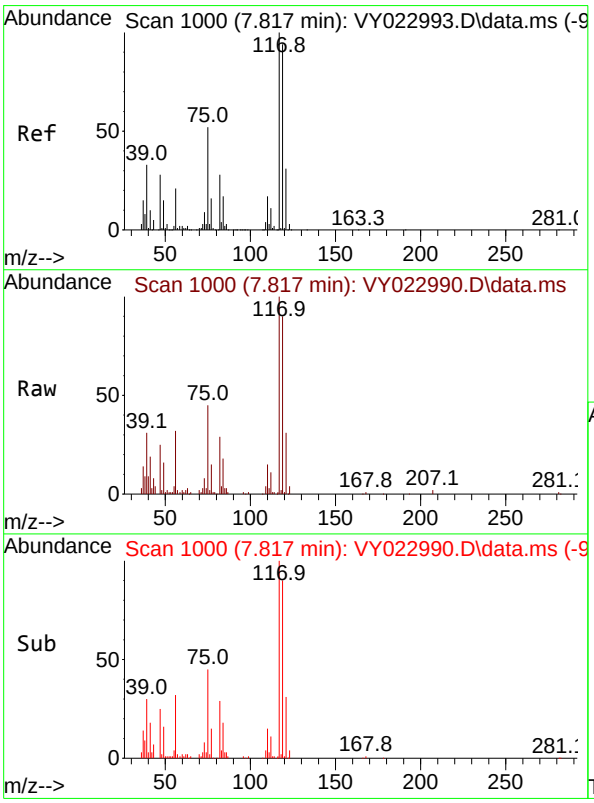
Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.6	17.4
70	11.5	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

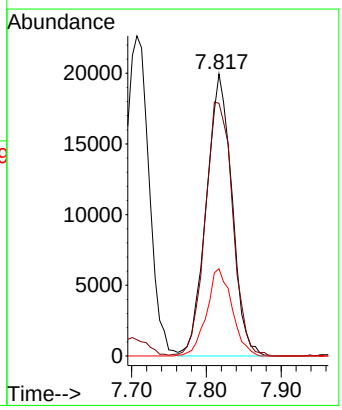
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

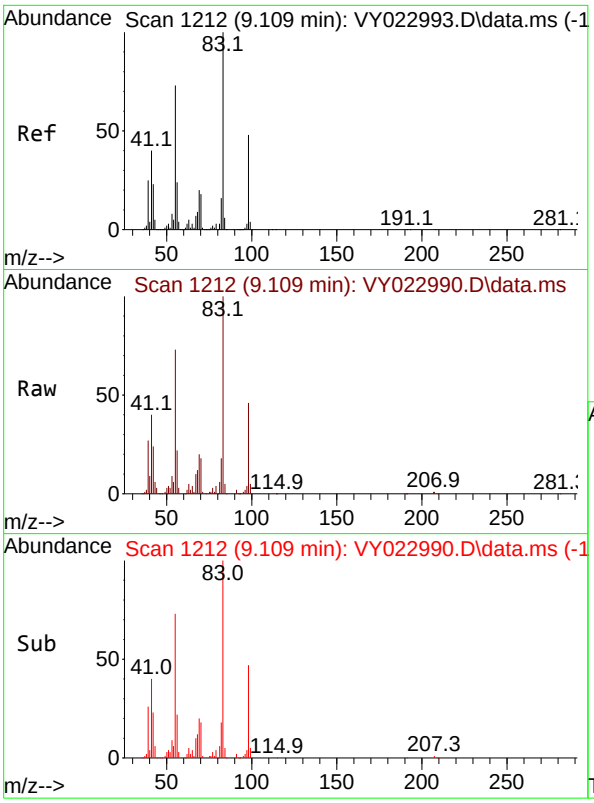


#38
Carbon Tetrachloride
Concen: 5.087 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:117 Resp: 47654

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.9	112.3
121	30.9	24.6	37.0





#39
Methylcyclohexane
Concen: 5.079 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

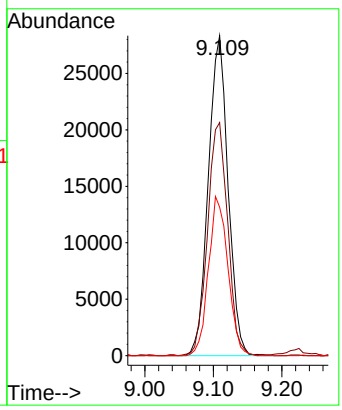
Tgt Ion: 83 Resp: 5668

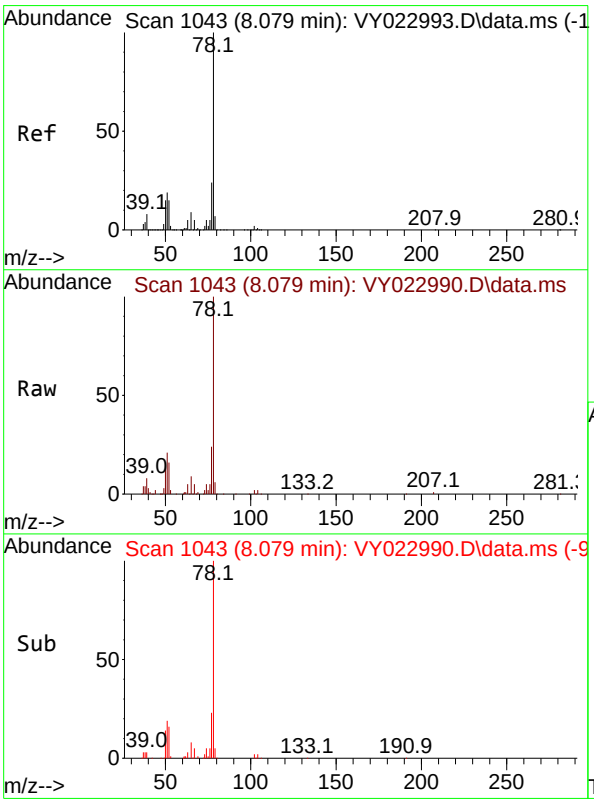
Ion	Ratio	Lower	Upper
83	100		
55	72.8	58.1	87.1
98	46.4	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

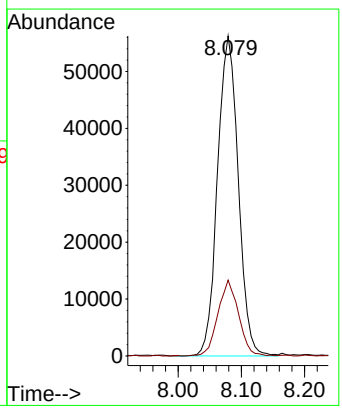


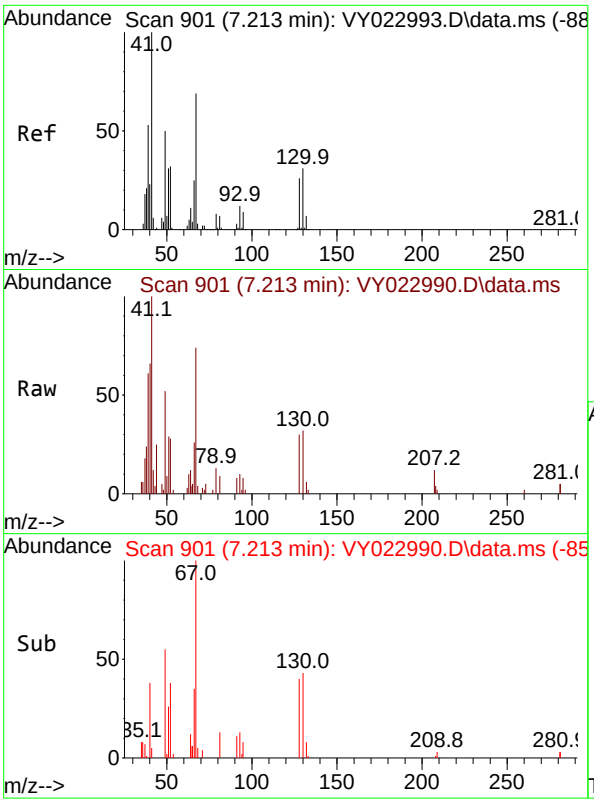


#40
Benzene
Concen: 4.934 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 78 Resp: 128094

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4

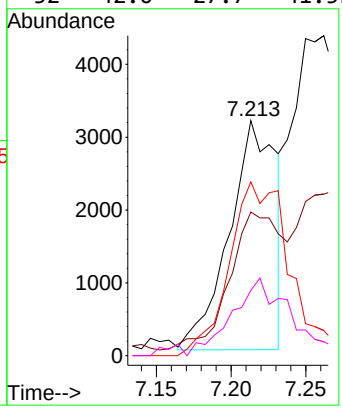




#41
Methacrylonitrile
Concen: 4.049 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 41 Resp: 684

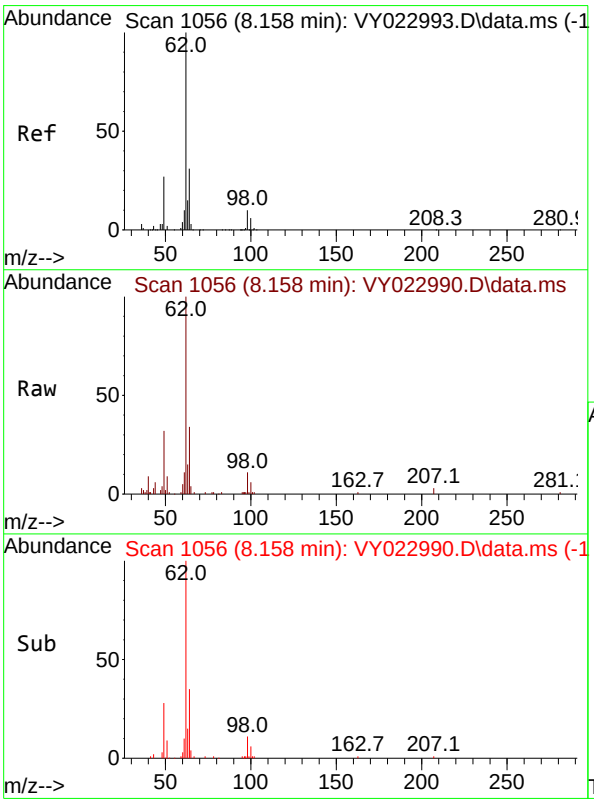
Ion	Ratio	Lower	Upper
41	100		
39	69.9	50.0	75.0
67	97.5	65.4	98.2
52	42.0	27.7	41.5#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

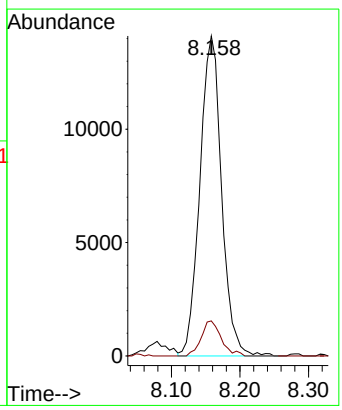
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

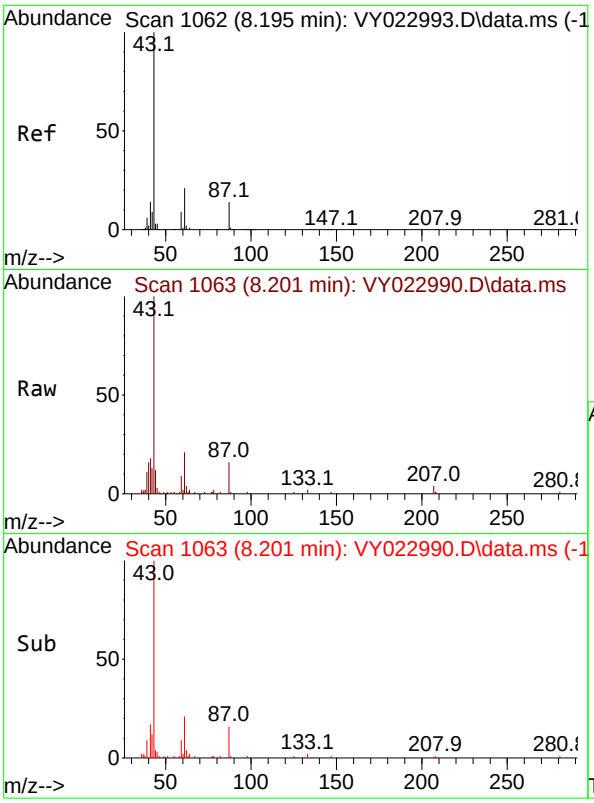


#42
1,2-Dichloroethane
Concen: 4.821 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 62 Resp: 31142

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.0





#43
Isopropyl Acetate
Concen: 4.292 ug/l
RT: 8.201 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

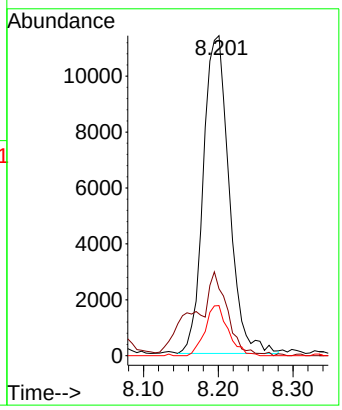
Tgt Ion: 43 Resp: 2730(

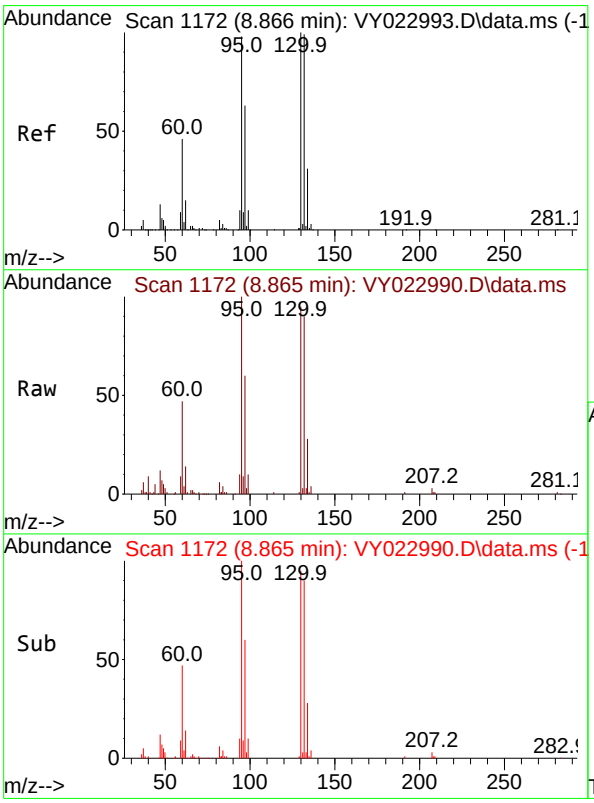
Ion	Ratio	Lower	Upper
43	100		
61	19.1	25.0	37.4
87	14.2	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

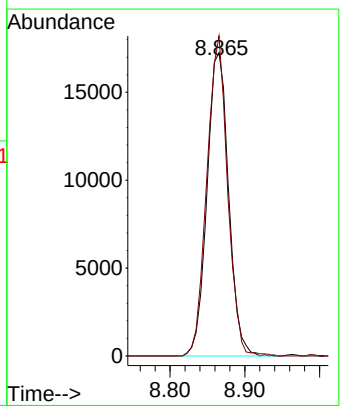


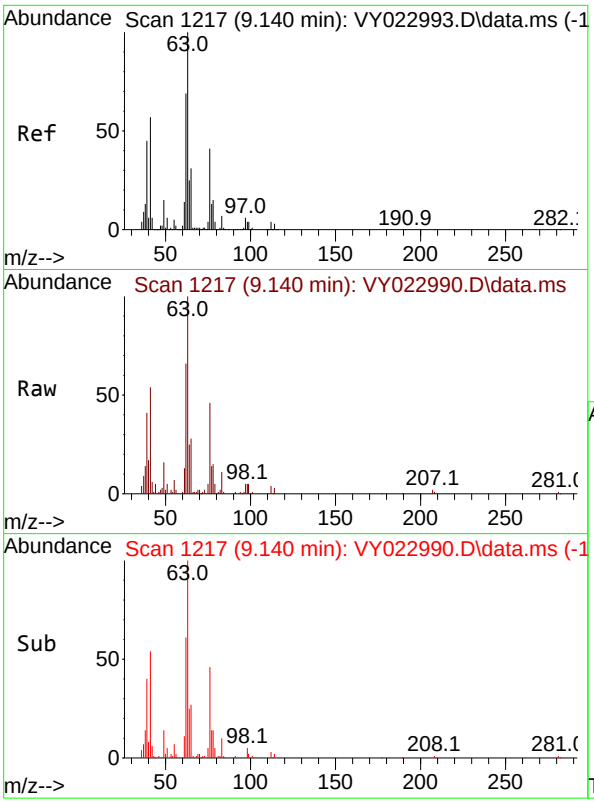


#44
Trichloroethene
Concen: 5.205 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:130 Resp: 34709

Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	195.8





#45
1,2-Dichloropropane
Concen: 5.005 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

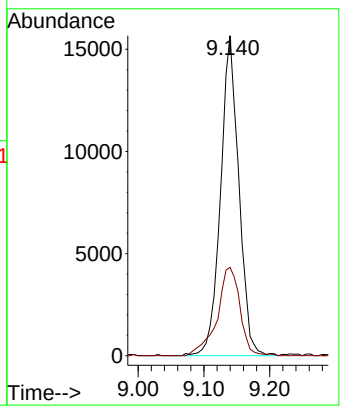
Tgt Ion: 63 Resp: 3034

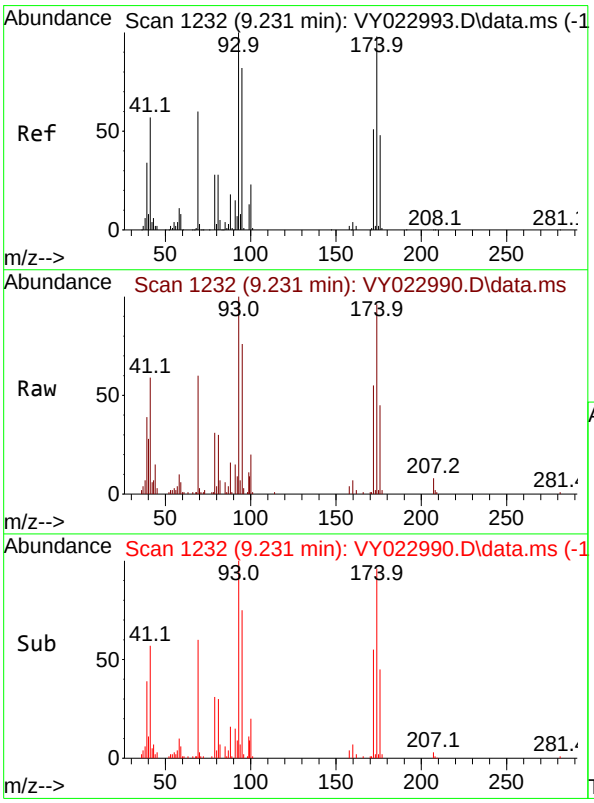
Ion	Ratio	Lower	Upper
63	100		
65	27.6	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

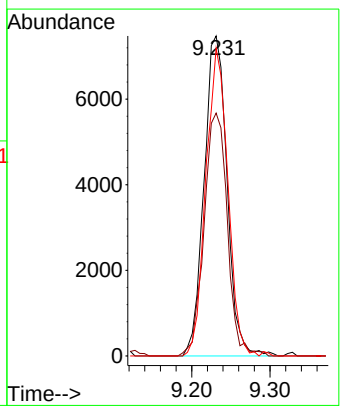


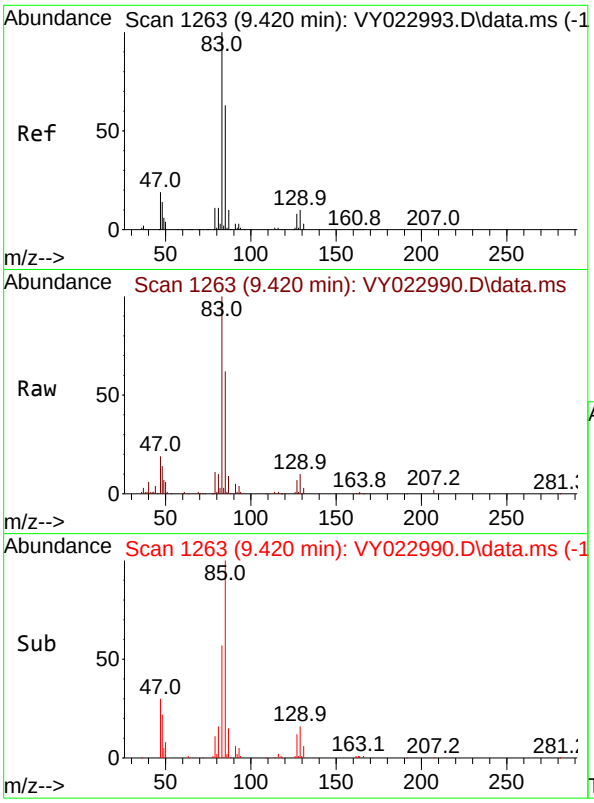


#46
Dibromomethane
Concen: 4.856 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 93 Resp: 15218

Ion	Ratio	Lower	Upper
93	100		
95	77.0	65.9	98.9
174	92.0	76.4	114.6

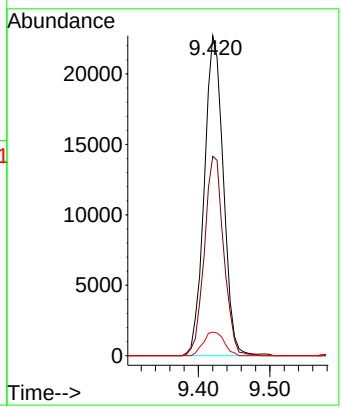




#47
Bromodichloromethane
Concen: 4.849 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 83 Resp: 4200

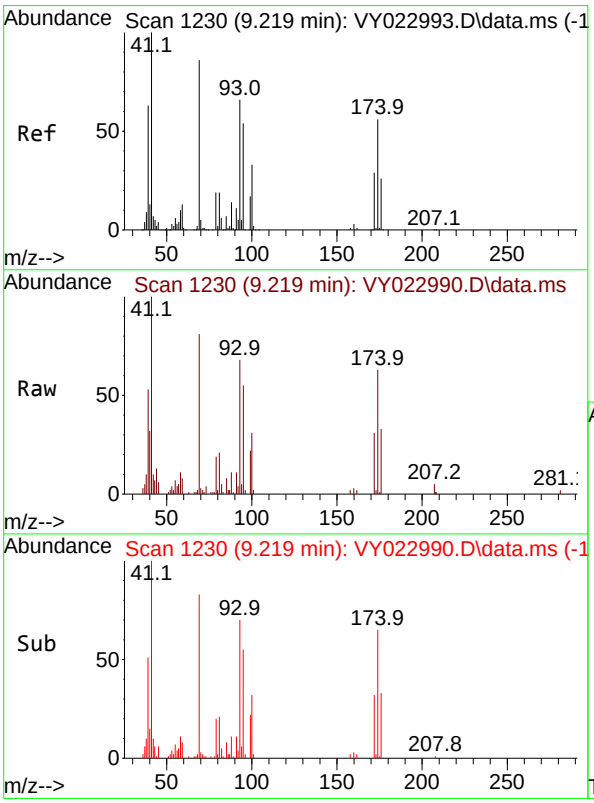
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.6	75.8
127	7.3	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

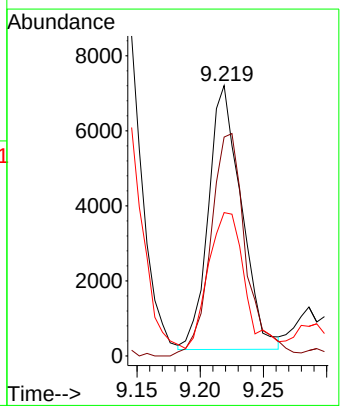
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

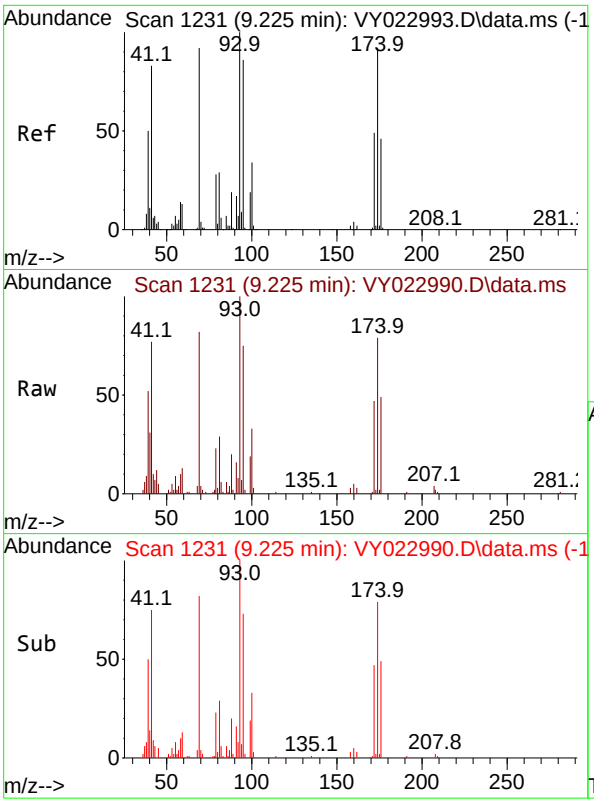


#48
Methyl methacrylate
Concen: 4.156 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 41 Resp: 12765

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	56.1	47.8	71.8

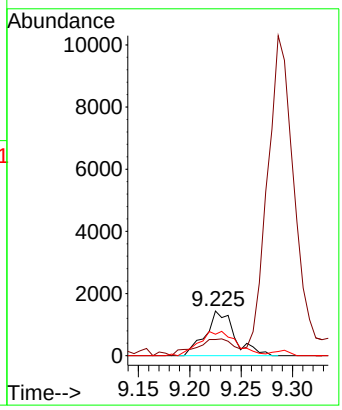




#49
1,4-Dioxane
Concen: 85.247 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 88 Resp: 281

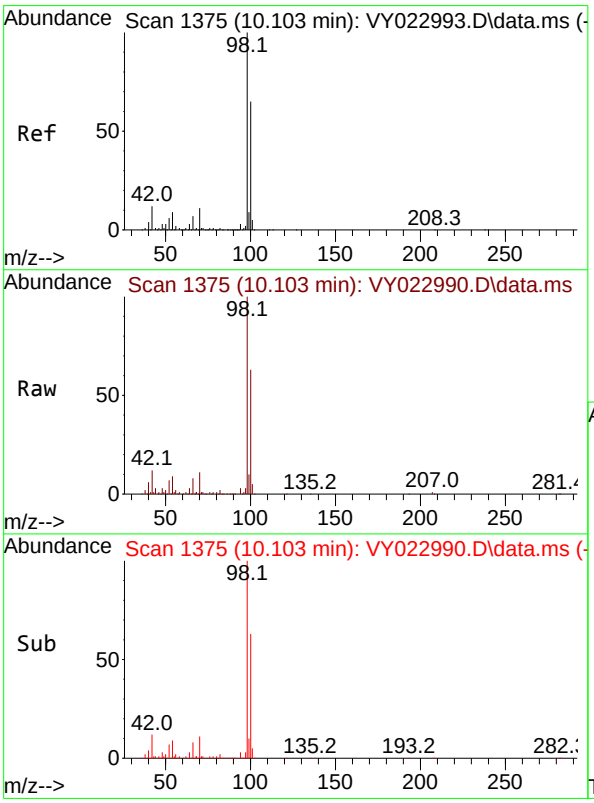
Ion	Ratio	Lower	Upper
88	100		
43	48.8	28.7	43.1
58	70.4	59.8	89.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

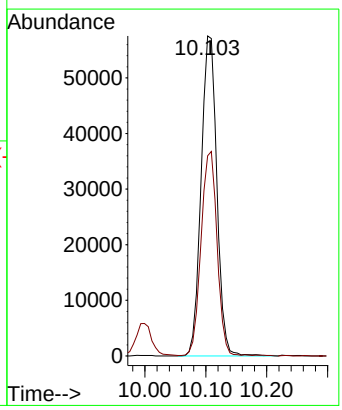
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

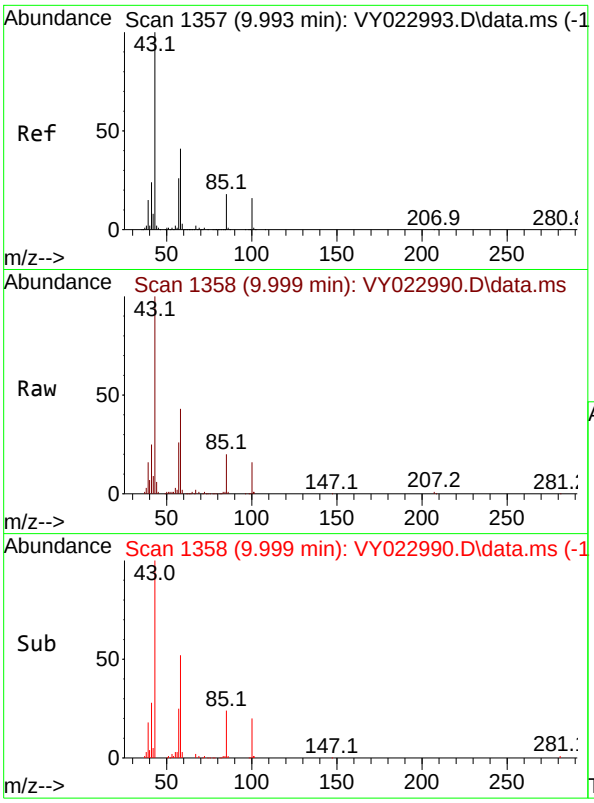


#50
Toluene-d8
Concen: 4.758 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 98 Resp: 103295

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

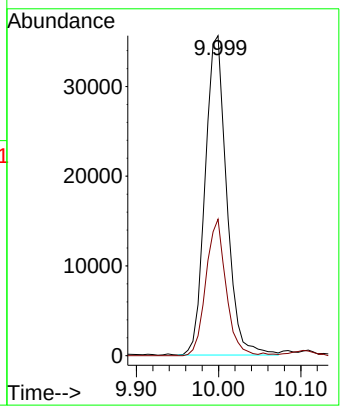




#51
4-Methyl-2-Pentanone
Concen: 20.023 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 6464

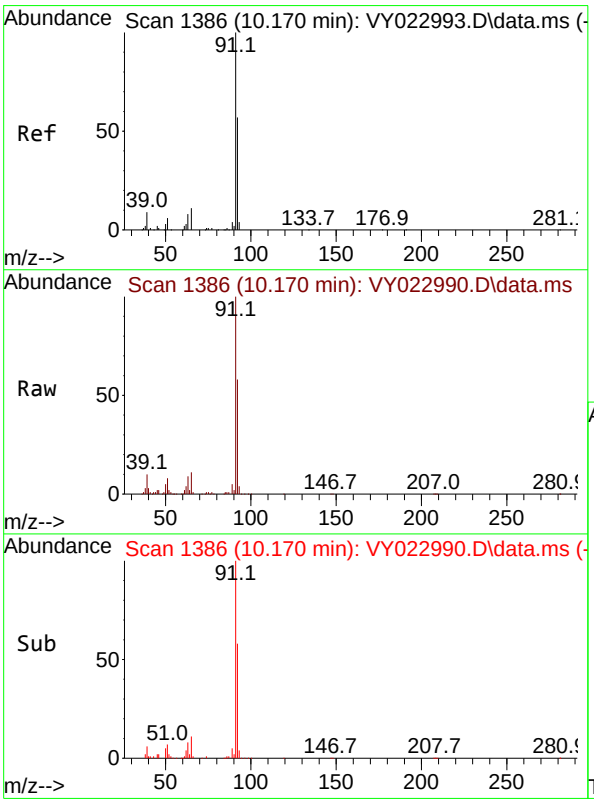
Ion	Ratio	Lower	Upper
43	100		
58	39.8	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

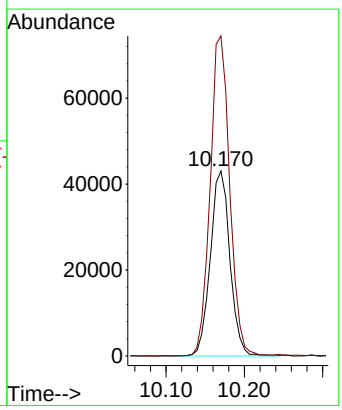
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

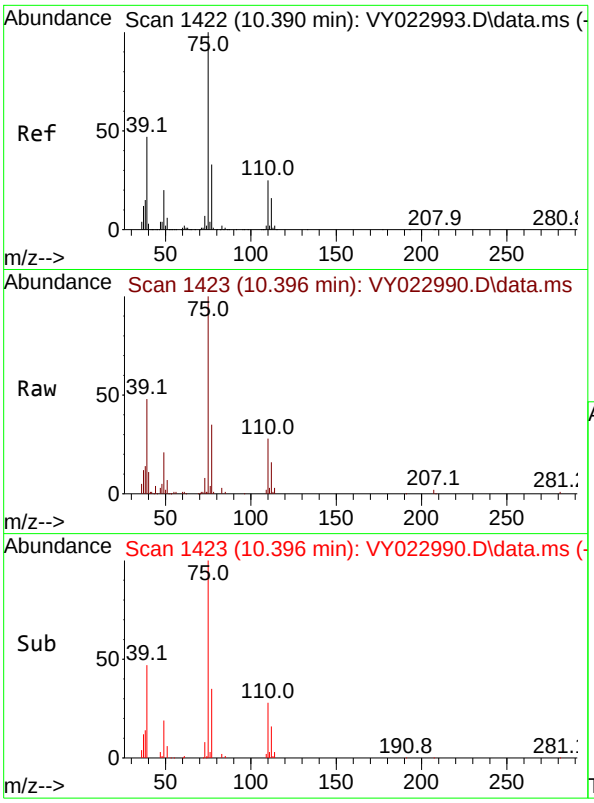


#52
Toluene
Concen: 4.626 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 92 Resp: 74665

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.8	206.6

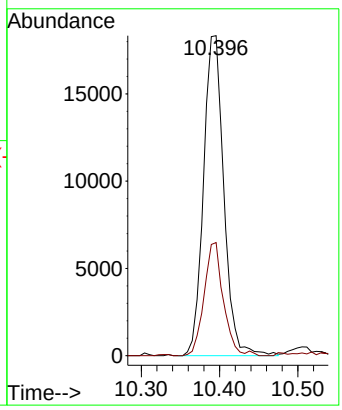




#53
t-1,3-Dichloropropene
Concen: 4.447 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 3306

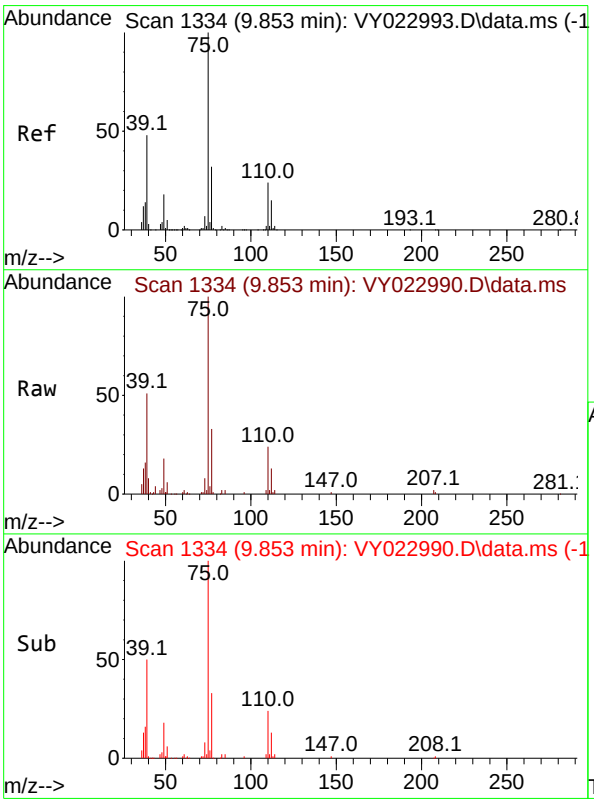
Ion	Ratio	Lower	Upper
75	100		
77	35.3	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

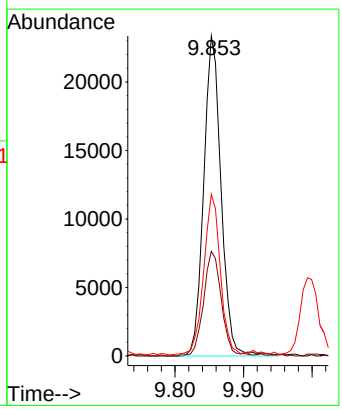
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

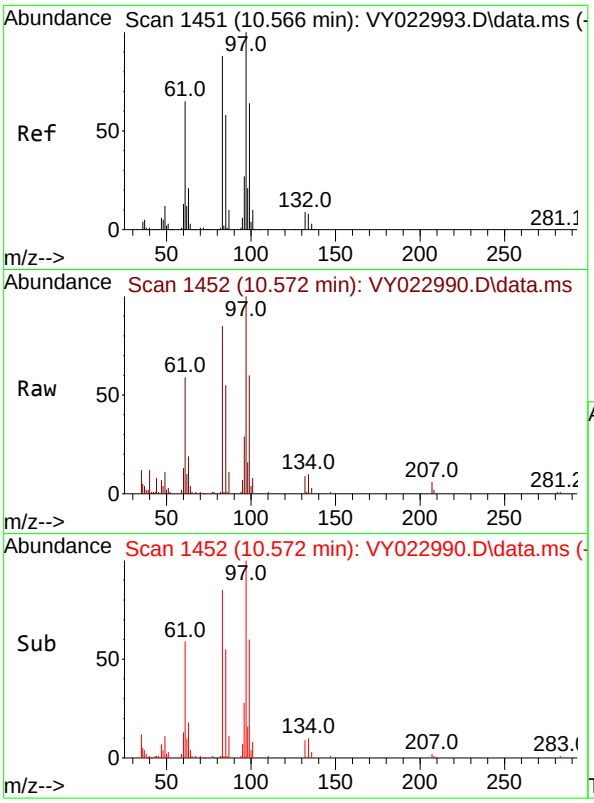


#54
cis-1,3-Dichloropropene
Concen: 4.599 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 41220

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.4	38.0
39	50.0	38.2	57.2

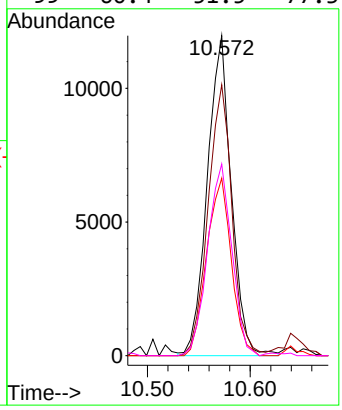




#55
1,1,2-Trichloroethane
Concen: 4.724 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 97 Resp: 1945

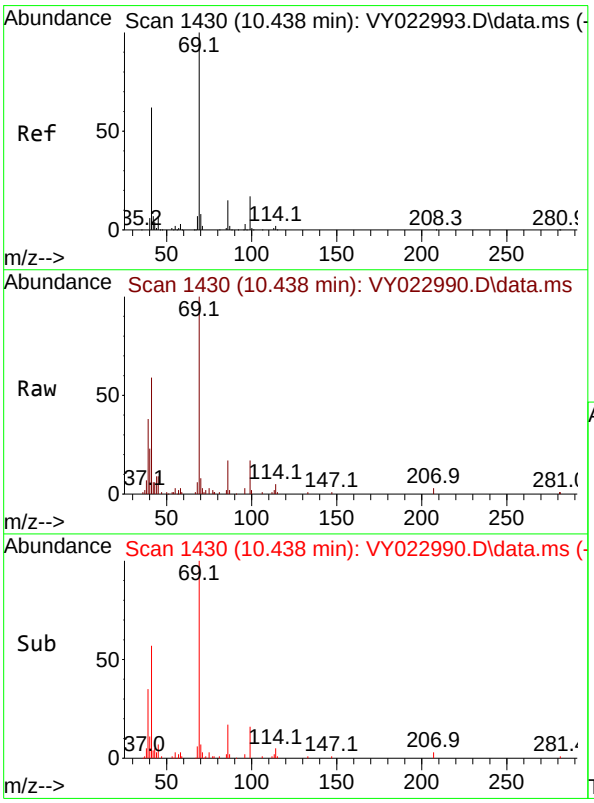
Ion	Ratio	Lower	Upper
97	100		
83	85.3	70.2	105.2
85	55.9	46.2	69.2
99	60.4	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

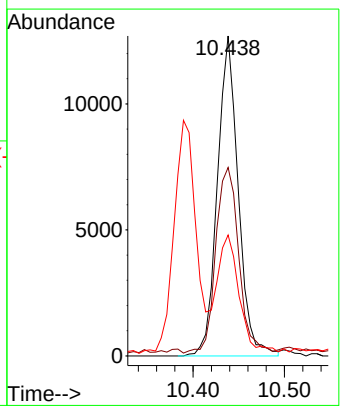
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

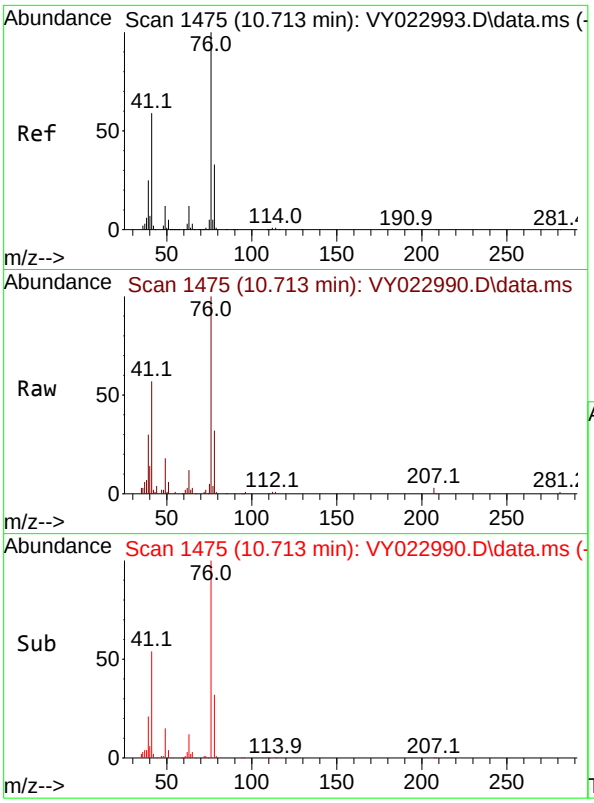


#56
Ethyl methacrylate
Concen: 3.925 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 69 Resp: 20183

Ion	Ratio	Lower	Upper
69	100		
41	63.7	51.0	76.4
39	39.5	30.6	46.0

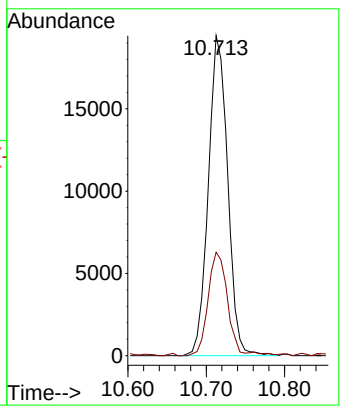




#57
1,3-Dichloropropane
Concen: 4.686 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 76 Resp: 3334

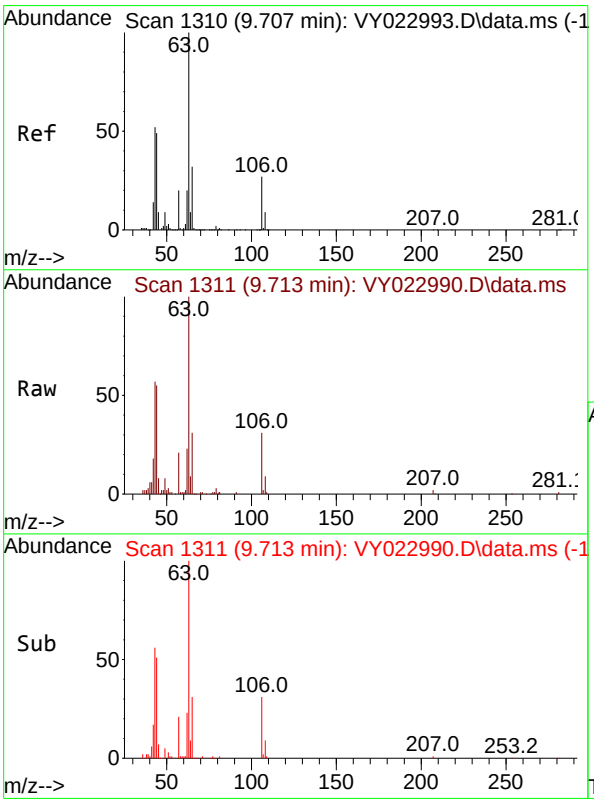
Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

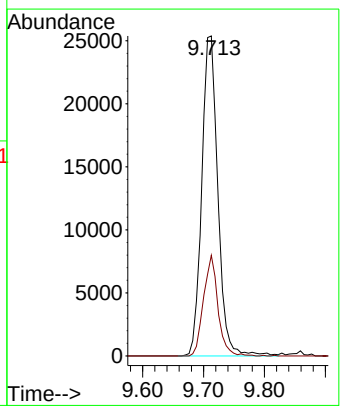
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

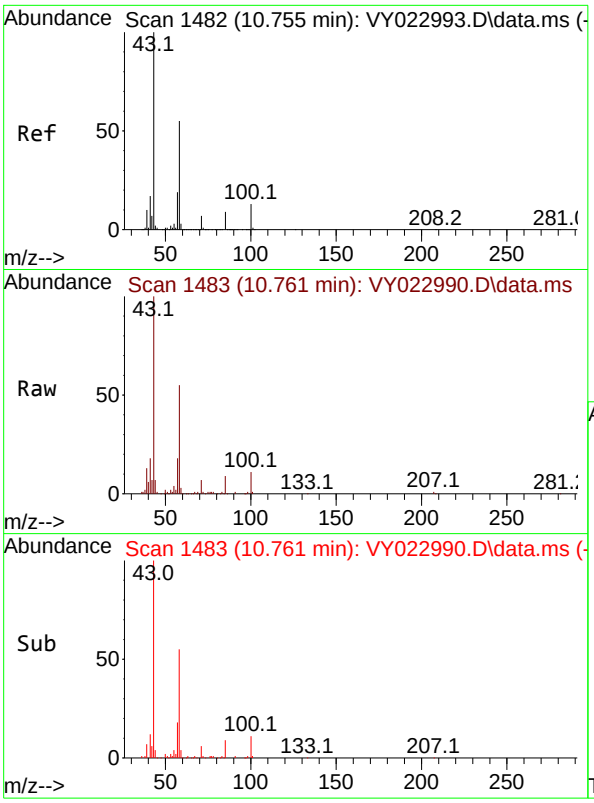


#58
2-Chloroethyl Vinyl ether
Concen: 18.550 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 63 Resp: 46689

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.6	33.8





#59
2-Hexanone
Concen: 20.239 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

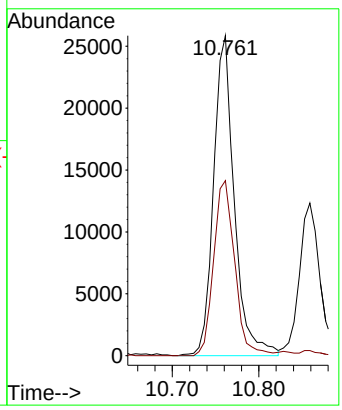
Tgt Ion: 43 Resp: 4295

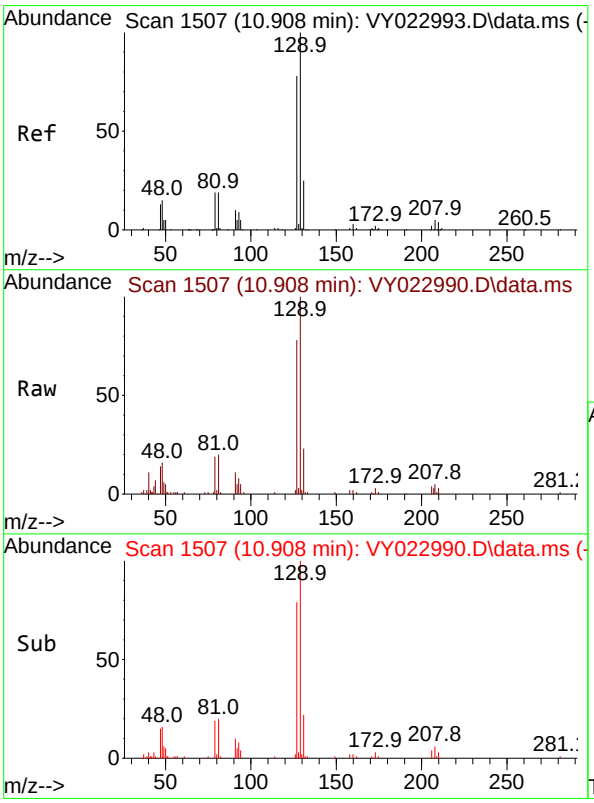
Ion	Ratio	Lower	Upper
43	100		
58	55.5	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

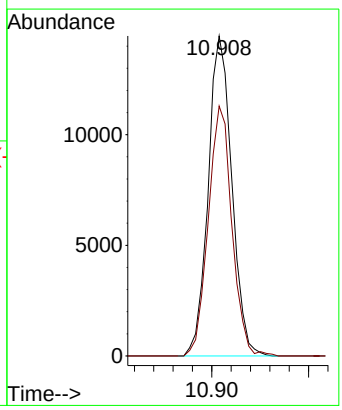


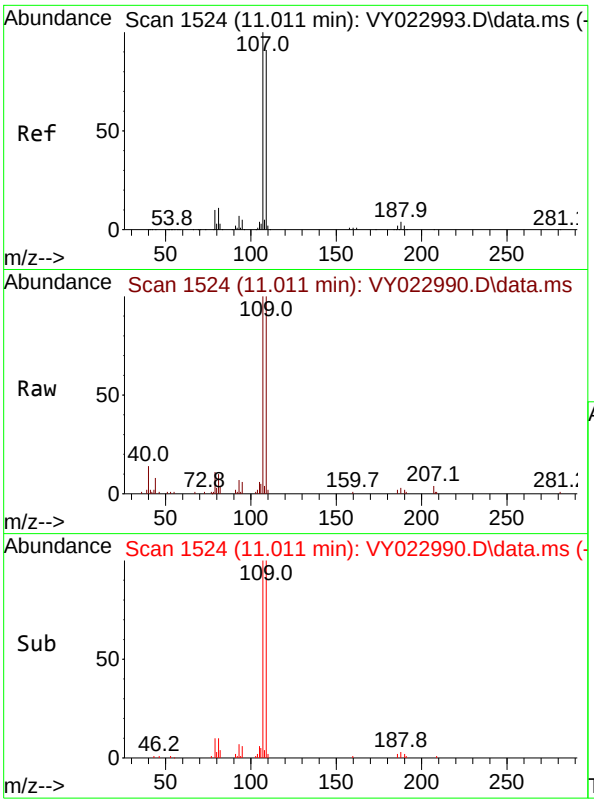


#60
Dibromochloromethane
Concen: 4.548 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:129 Resp: 24530

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.7	116.1





#61
1,2-Dibromoethane
Concen: 4.555 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

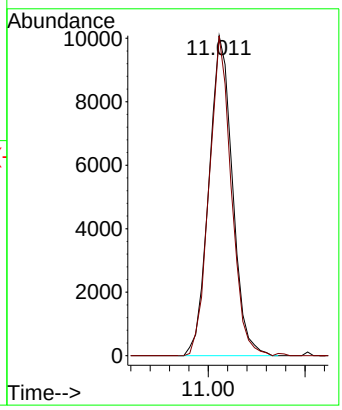
Tgt Ion:107 Resp: 1703

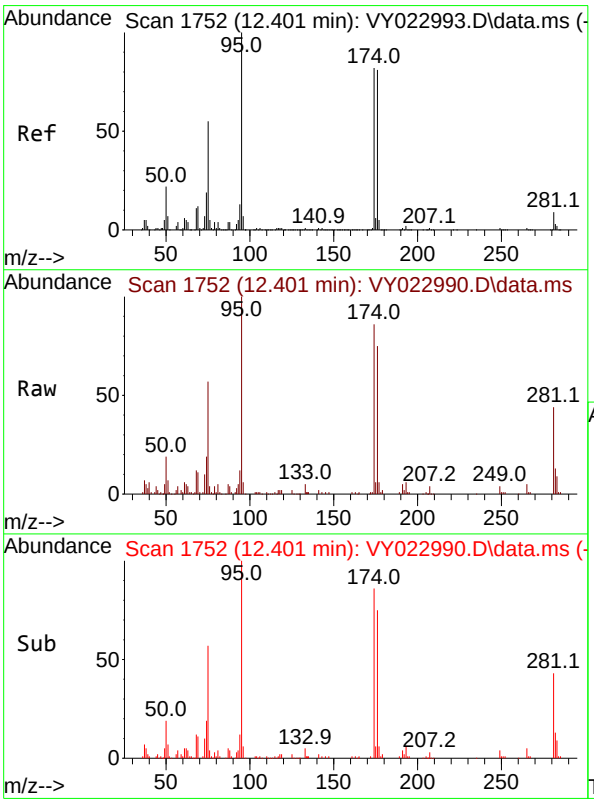
Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.1	112.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

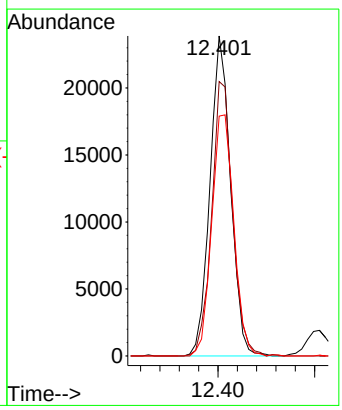


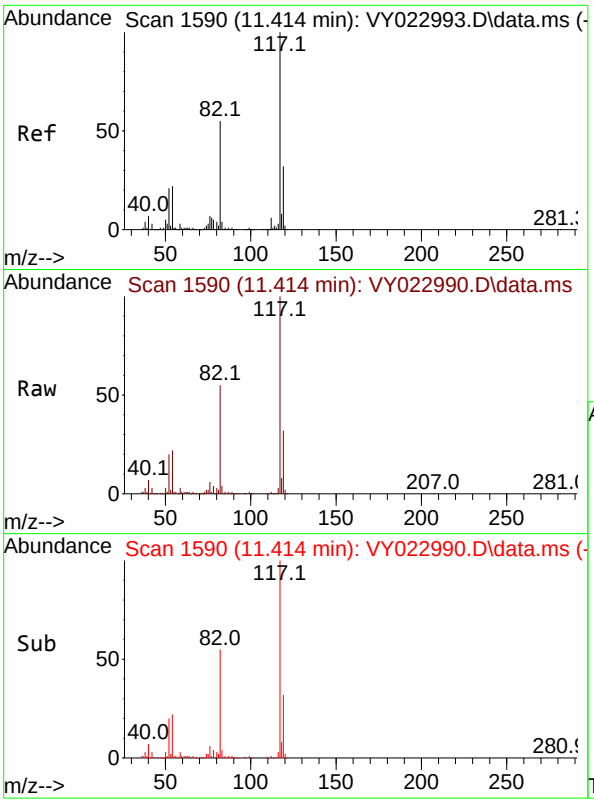


#62
4-Bromofluorobenzene
Concen: 5.165 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 95 Resp: 35295

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	170.8
176	81.0	0.0	163.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

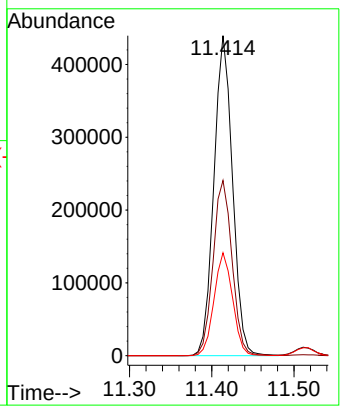
Tgt Ion:117 Resp: 69294

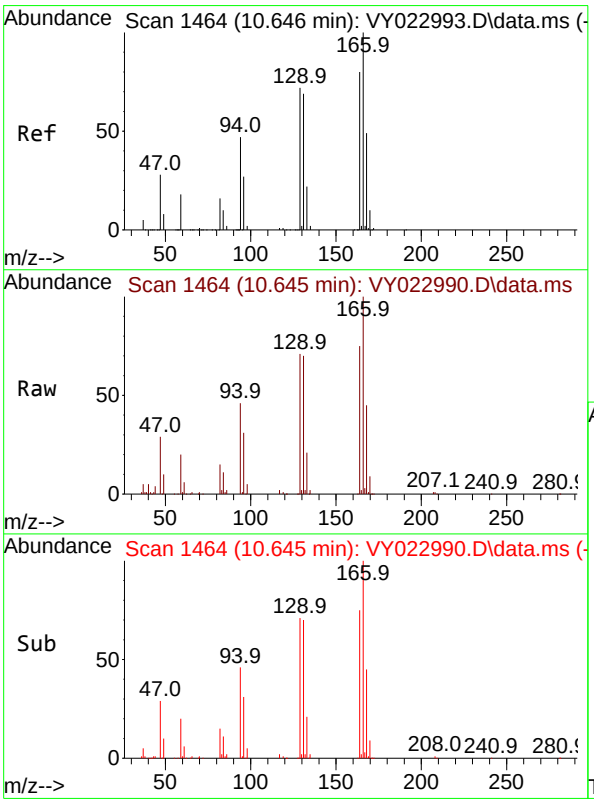
Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.3	66.5
119	32.1	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

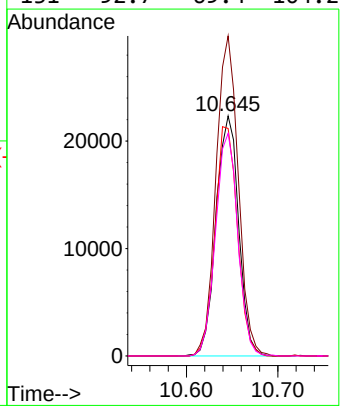


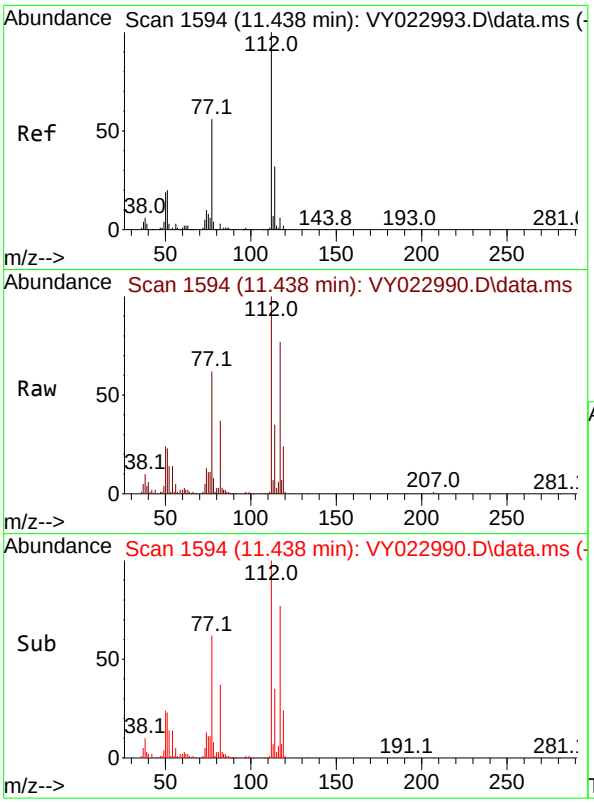


#64
Tetrachloroethene
Concen: 5.427 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:164 Resp: 38436

Ion	Ratio	Lower	Upper
164	100		
166	133.3	100.2	150.2
129	94.8	71.7	107.5
131	92.7	69.4	104.2

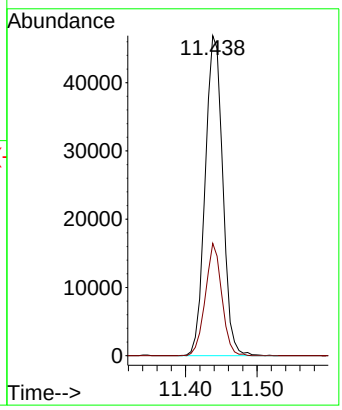




#65
Chlorobenzene
Concen: 4.877 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:112 Resp: 7974

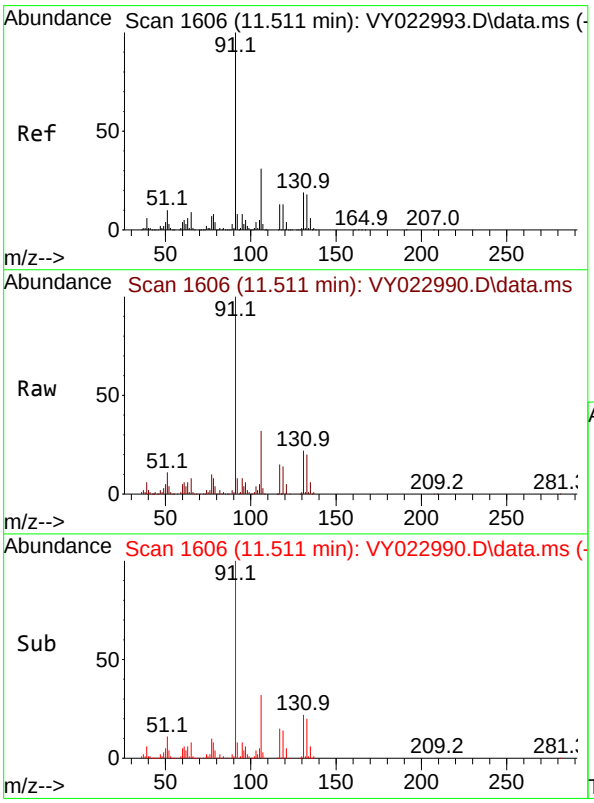
Ion	Ratio	Lower	Upper
112	100		
114	35.1	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

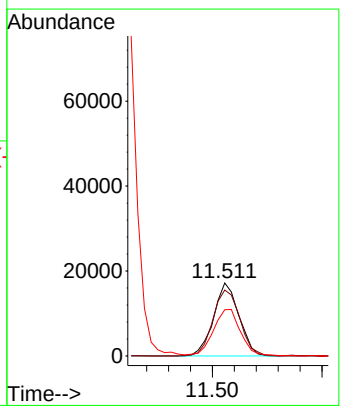
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

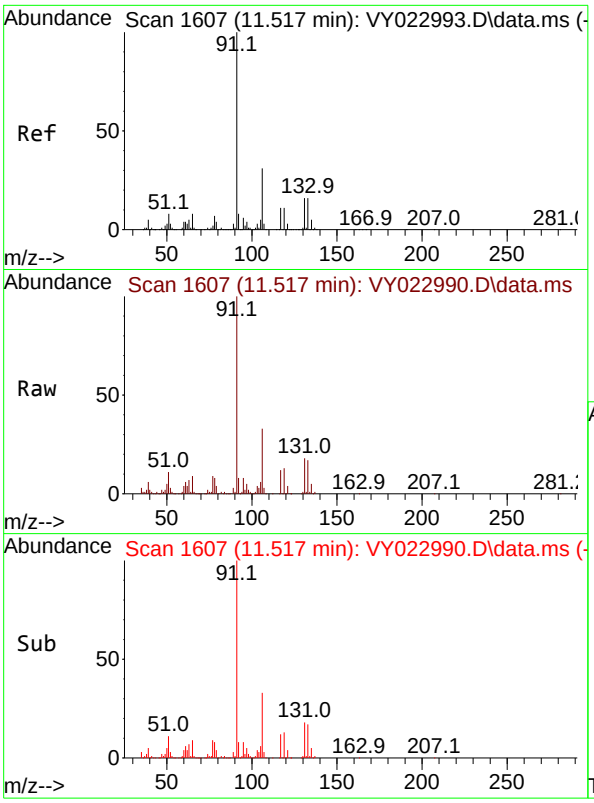


#66
1,1,1,2-Tetrachloroethane
Concen: 4.957 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:131 Resp: 27645

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.8	143.3
119	68.6	33.3	99.8





#67
Ethyl Benzene
Concen: 4.764 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

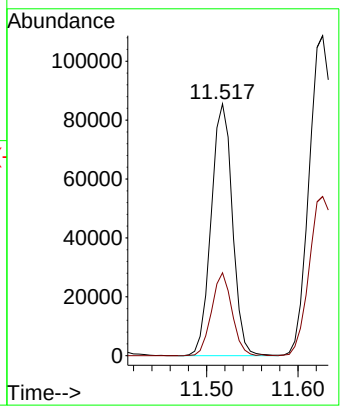
Tgt Ion: 91 Resp: 13807

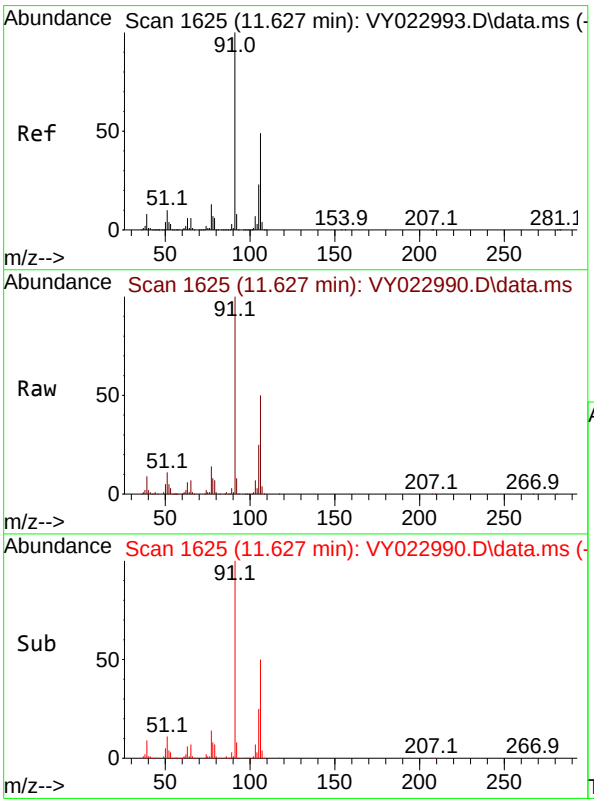
Ion	Ratio	Lower	Upper
91	100		
106	32.9	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

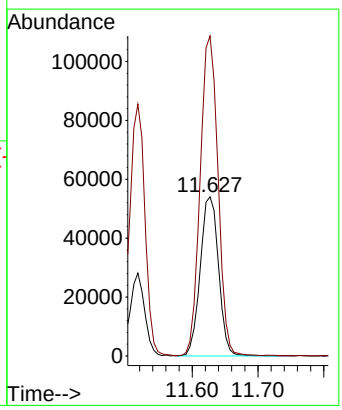


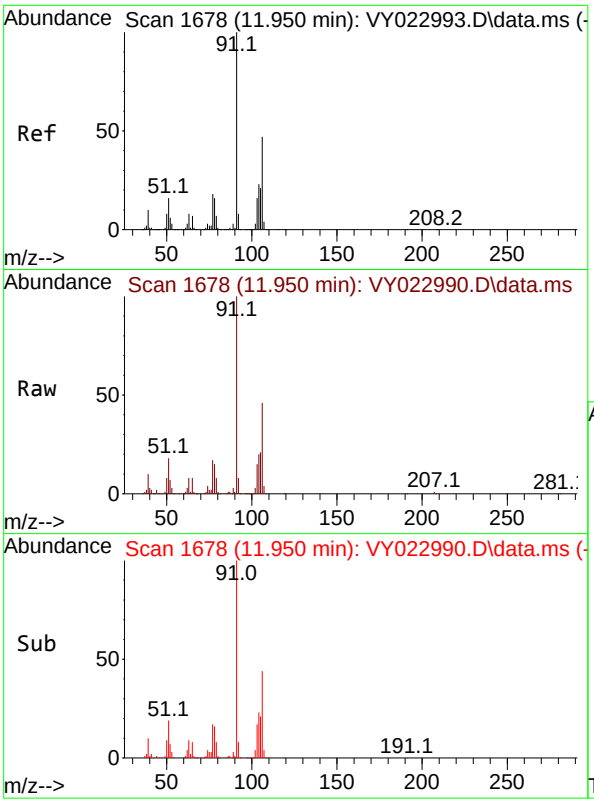


#68
m/p-Xylenes
Concen: 9.414 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:106 Resp: 104654

Ion	Ratio	Lower	Upper
106	100		
91	195.4	159.8	239.8





#69
o-Xylene
Concen: 4.541 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

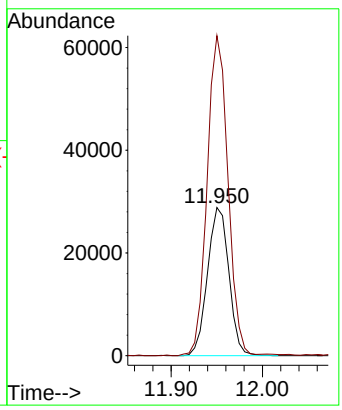
Tgt Ion:106 Resp: 4685

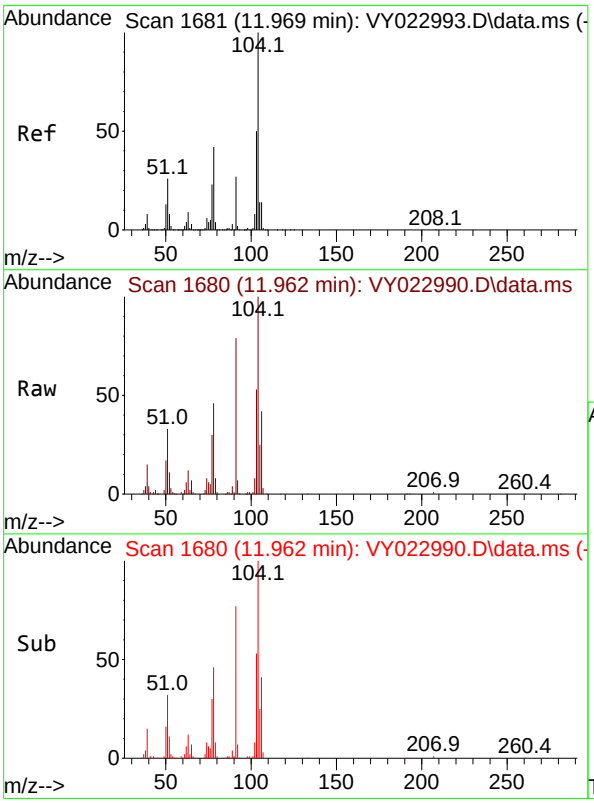
Ion	Ratio	Lower	Upper
106	100		
91	210.1	106.3	318.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

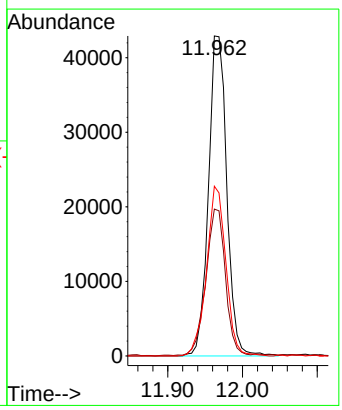


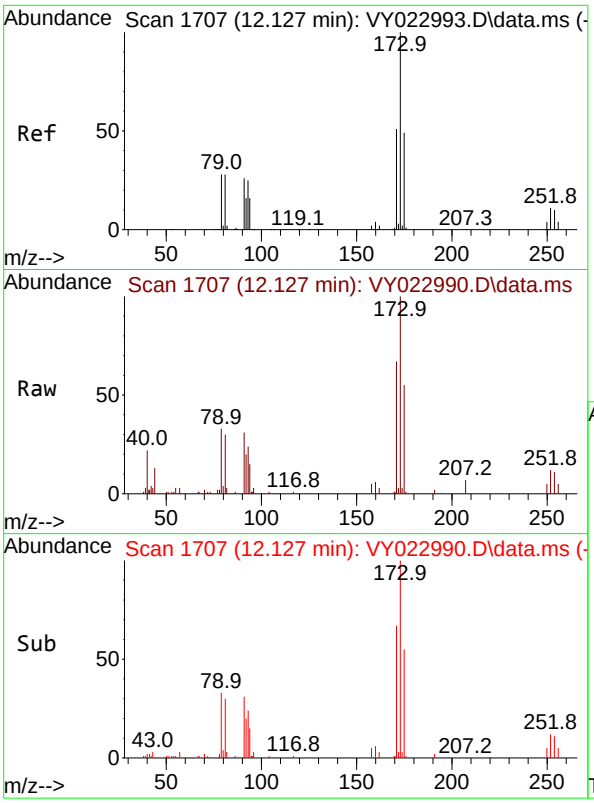


#70
Styrene
Concen: 4.345 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:104 Resp: 73426

Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.6
103	55.9	43.7	65.5

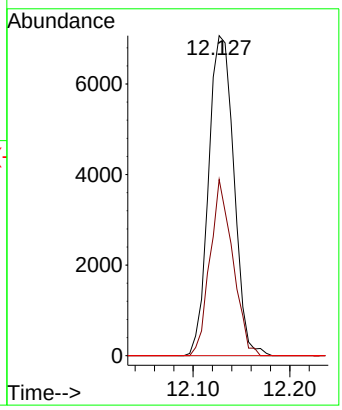




#71
Bromoform
Concen: 4.541 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:173 Resp: 1285

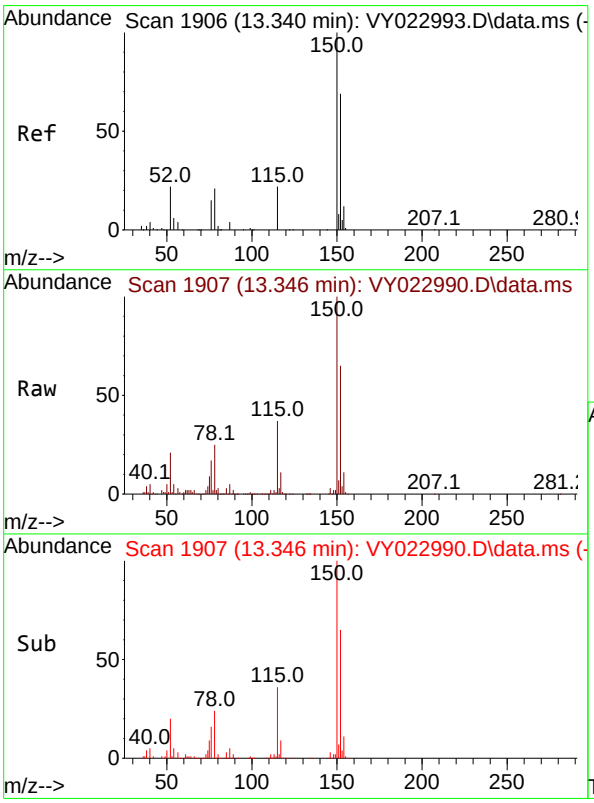
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

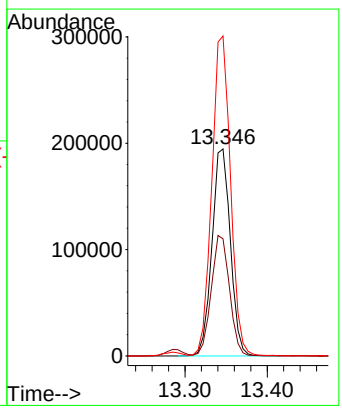
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

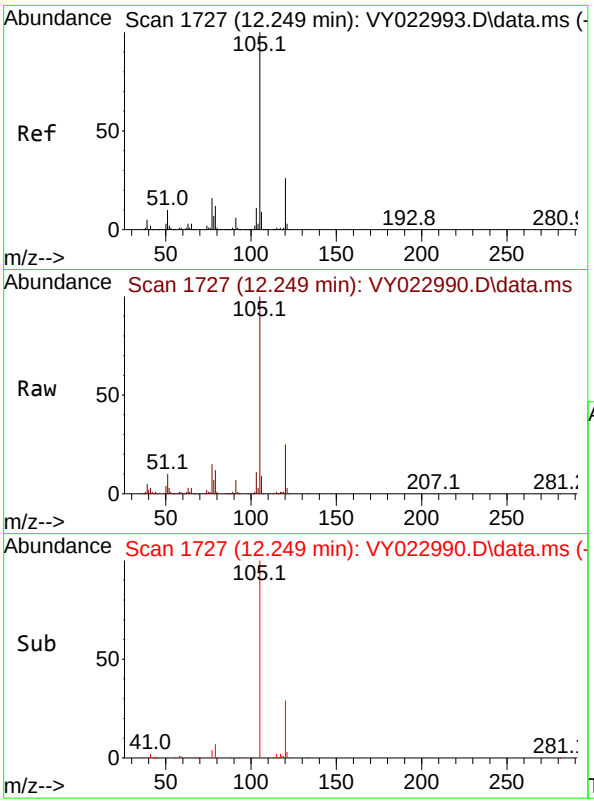


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:152 Resp: 302335

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.4	88.2
150	156.9	0.0	350.0

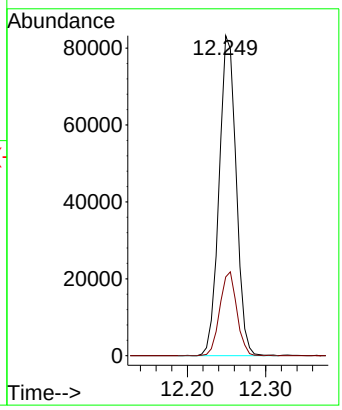




#73
Isopropylbenzene
Concen: 4.925 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:105 Resp: 12624

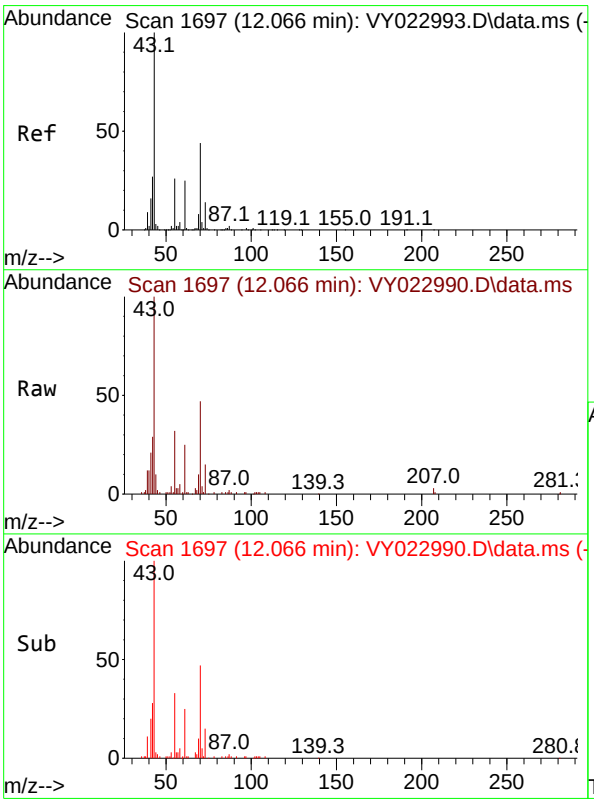
Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

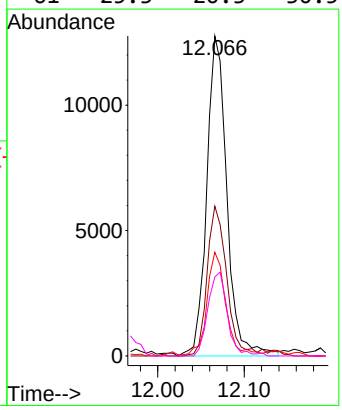
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

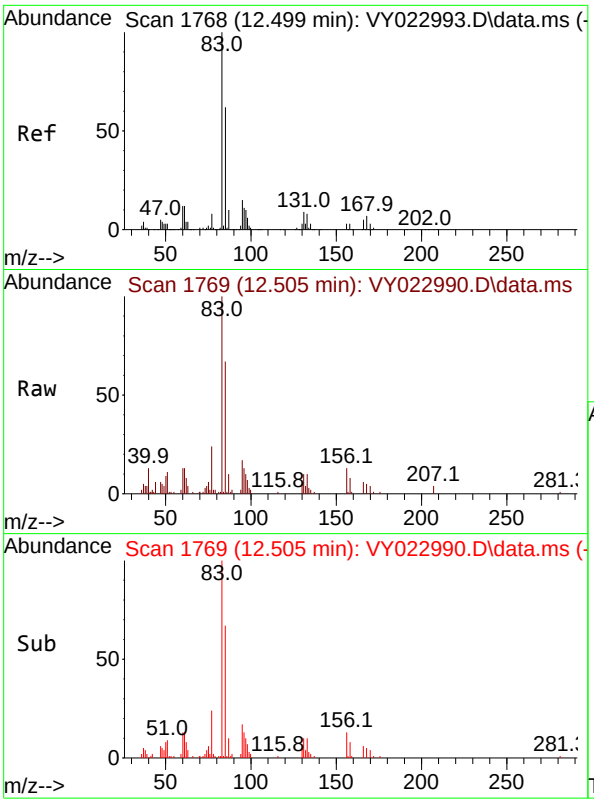


#74
N-amyl acetate
Concen: 4.269 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 20632

Ion	Ratio	Lower	Upper
43	100		
70	45.9	36.2	54.2
55	29.3	20.9	31.3
61	25.3	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 4.544 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

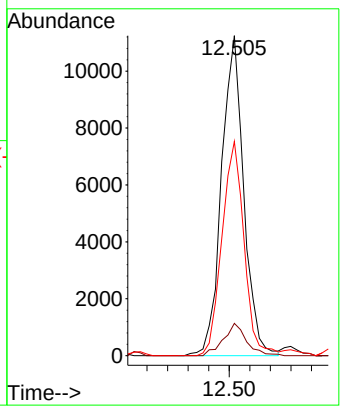
Tgt Ion: 83 Resp: 1685

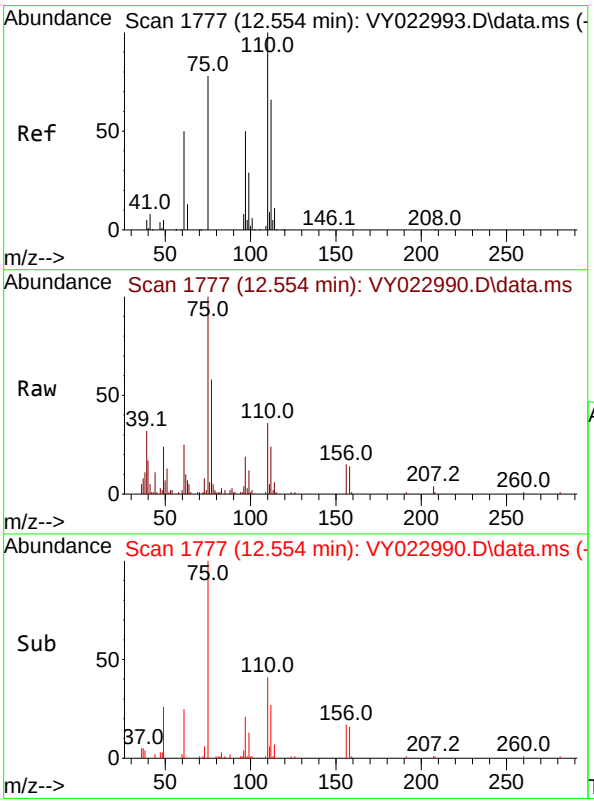
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	66.5	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

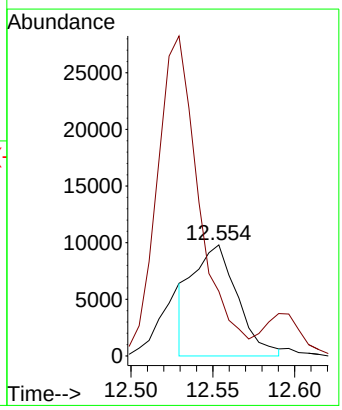


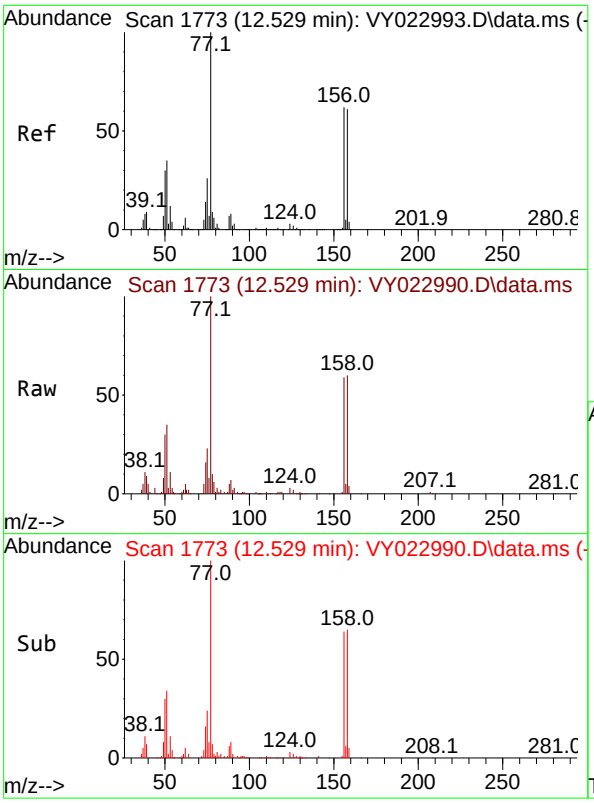


#76
1,2,3-Trichloropropane
Concen: 4.765 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 18629

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

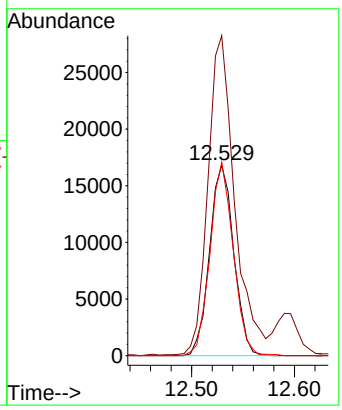




#77
Bromobenzene
Concen: 4.942 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:156 Resp: 2747

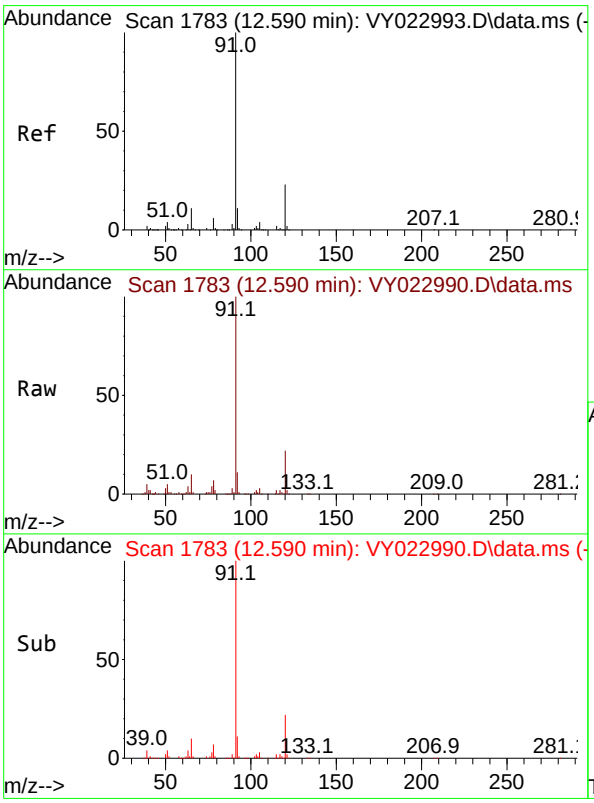
Ion	Ratio	Lower	Upper
156	100		
77	184.8	92.0	276.1
158	97.7	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

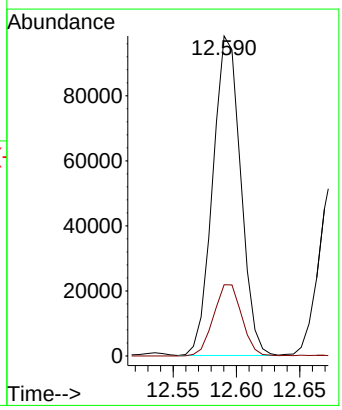
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

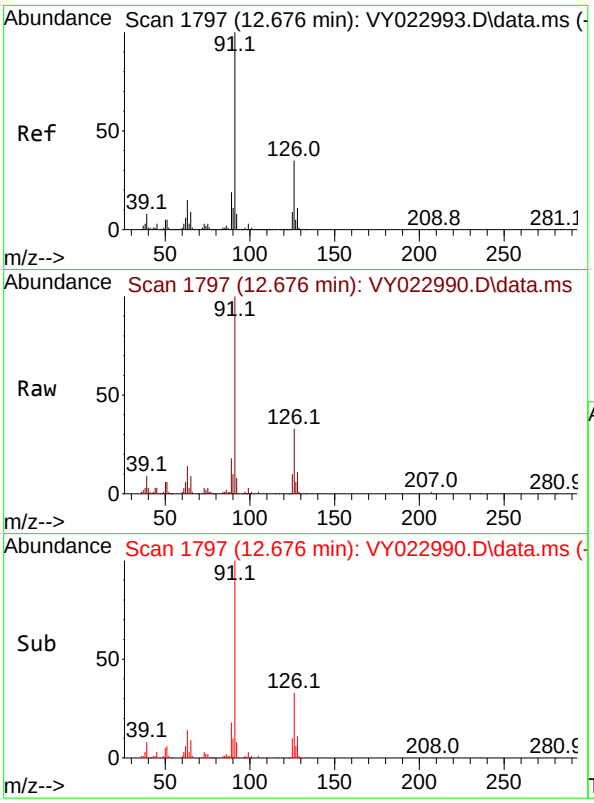


#78
n-propylbenzene
Concen: 4.939 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 91 Resp: 150755

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8





#79
2-Chlorotoluene
Concen: 4.965 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

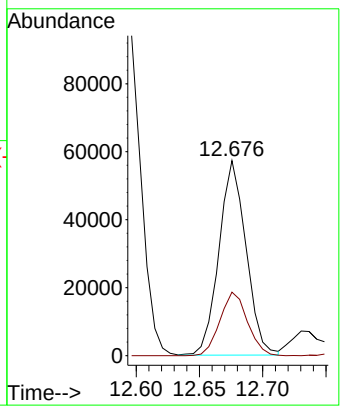
Tgt Ion: 91 Resp: 8523

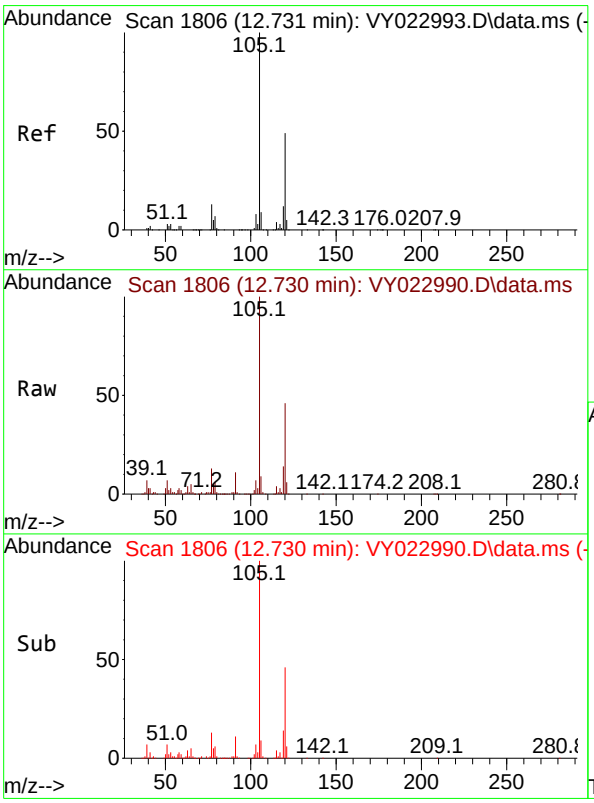
Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

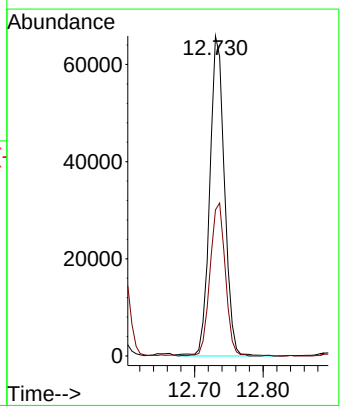


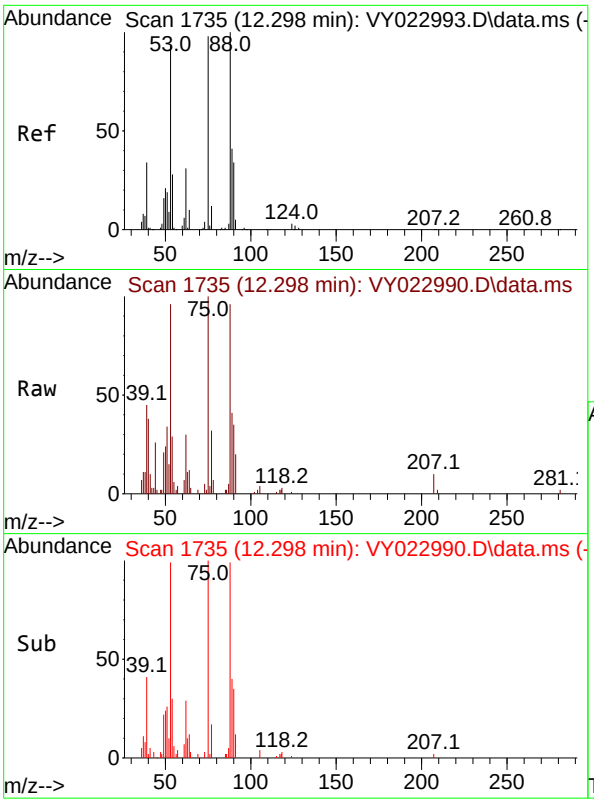


#80
1,3,5-Trimethylbenzene
Concen: 4.852 ug/l
RT: 12.730 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:105 Resp: 98096

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.6	73.8

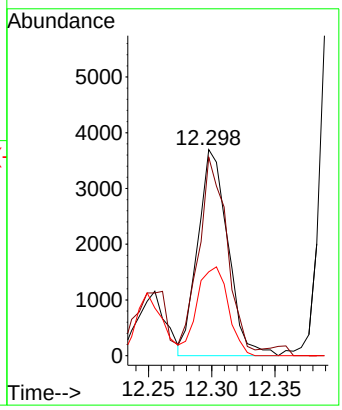




#81
trans-1,4-Dichloro-2-butene
Concen: 4.843 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 612

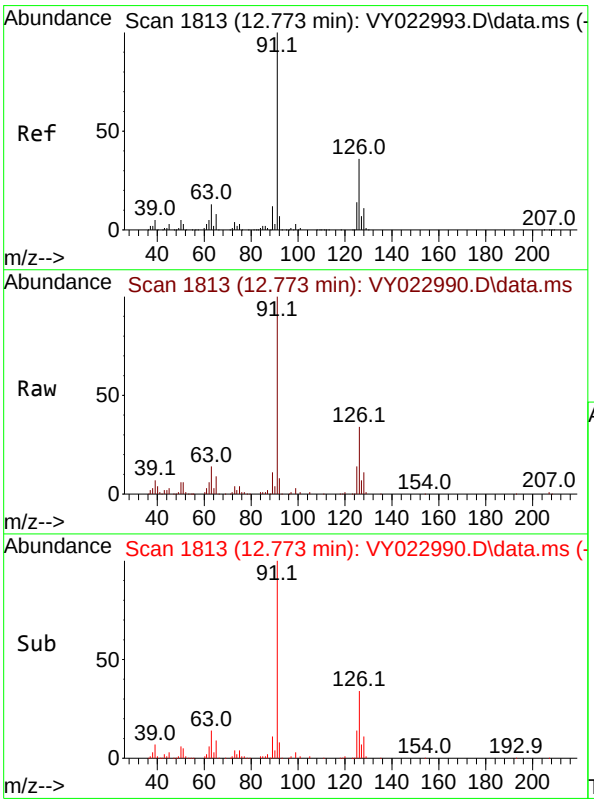
Ion	Ratio	Lower	Upper
75	100		
53	91.8	76.1	114.1
89	44.8	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

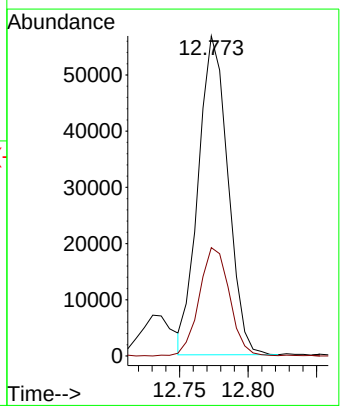
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

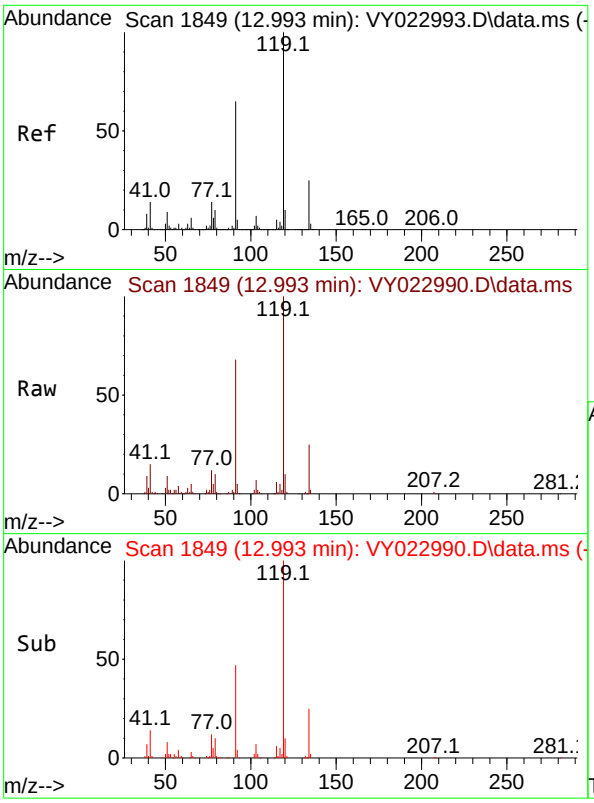


#82
4-Chlorotoluene
Concen: 4.935 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 91 Resp: 85449

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.2	51.5

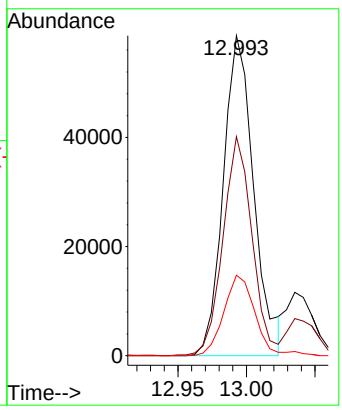




#83
tert-Butylbenzene
Concen: 4.961 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:119 Resp: 9060

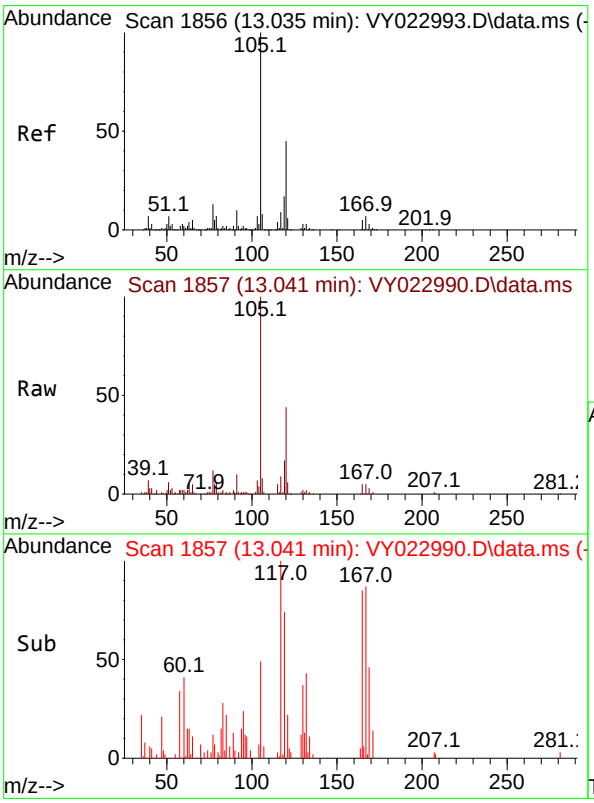
Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.0	96.2
134	25.8	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

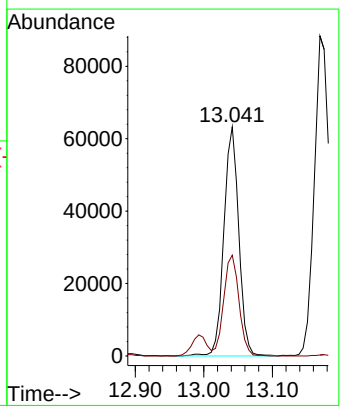
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

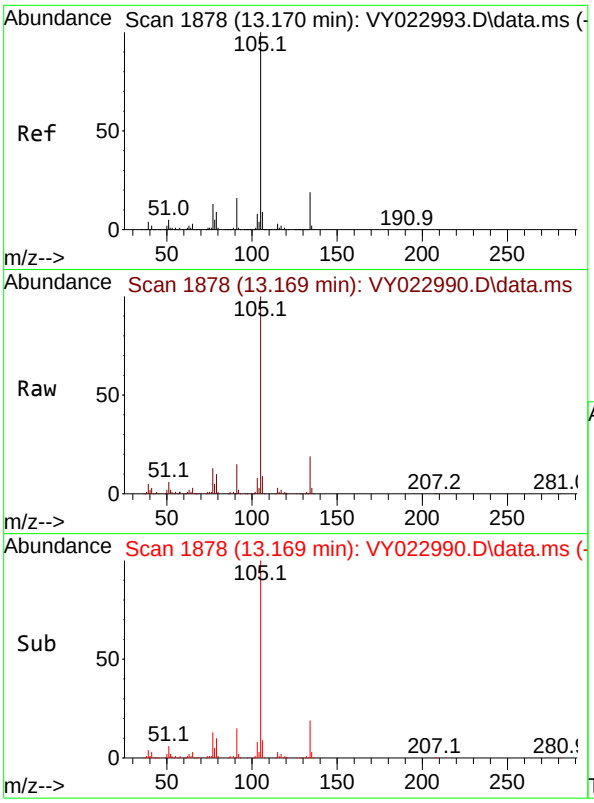


#84
1,2,4-Trimethylbenzene
Concen: 4.782 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:105 Resp: 95160

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8

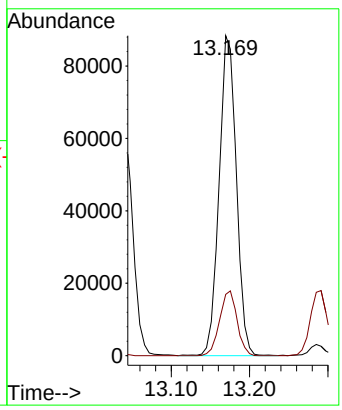




#85
sec-Butylbenzene
Concen: 4.953 ug/l
RT: 13.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:105 Resp: 13553

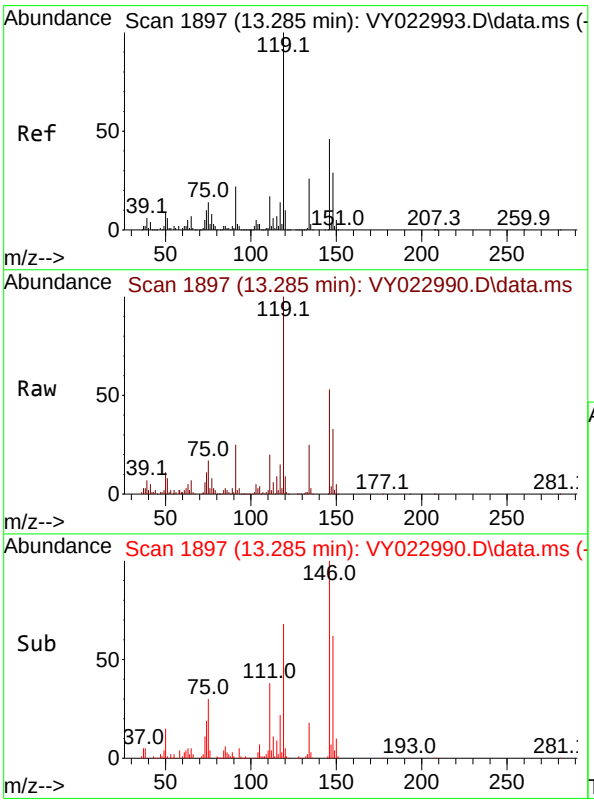
Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

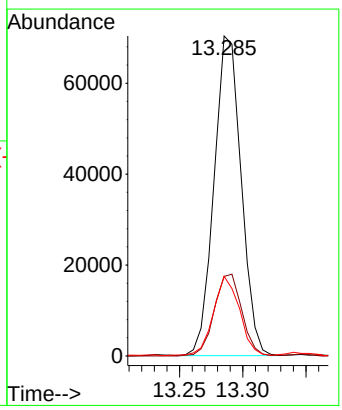
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

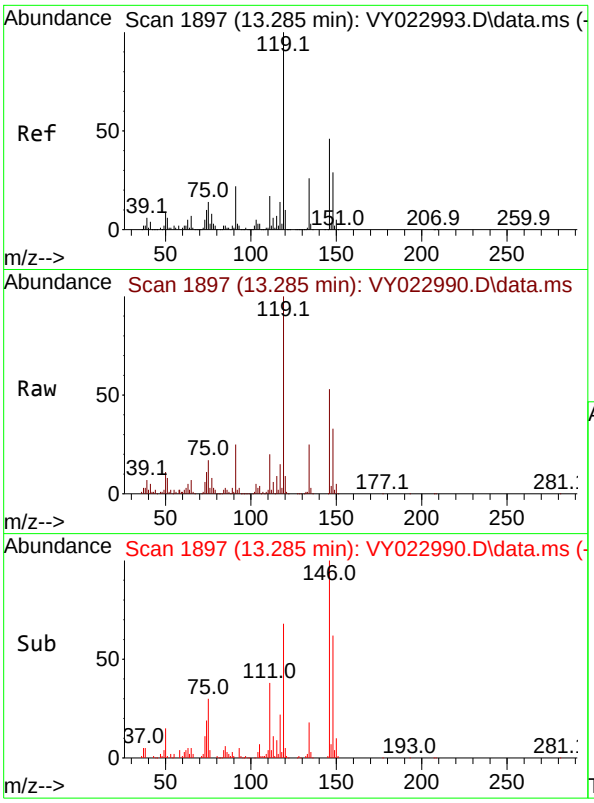


#86
p-Isopropyltoluene
Concen: 4.717 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:119 Resp: 104828

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.1	39.1
91	23.8	11.4	34.1

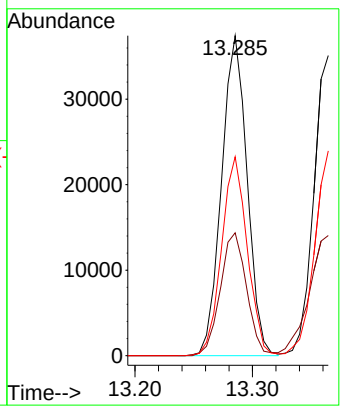




#87
1,3-Dichlorobenzene
Concen: 5.043 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:146 Resp: 5657

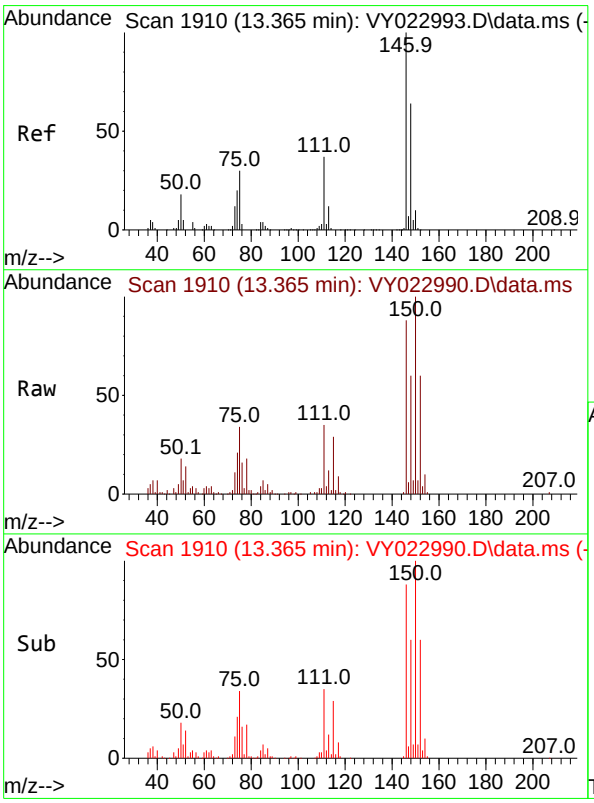
Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.8	59.3
148	62.5	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

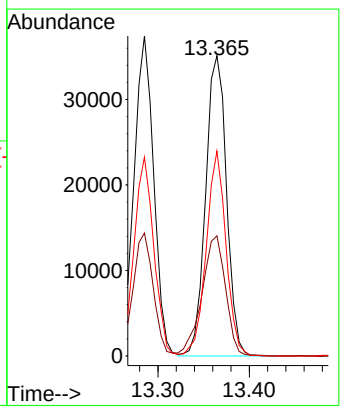
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

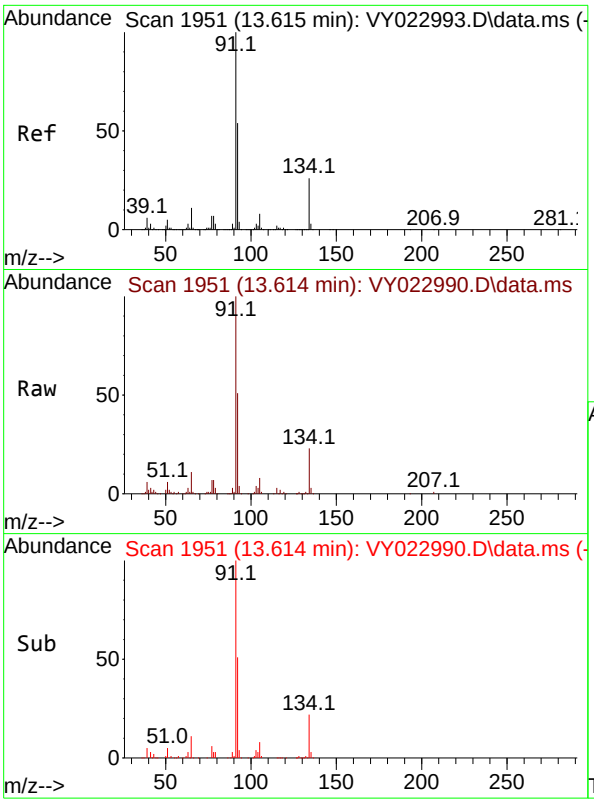


#88
1,4-Dichlorobenzene
Concen: 5.121 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:146 Resp: 55584

Ion	Ratio	Lower	Upper
146	100		
111	45.7	19.2	57.6
148	64.8	31.9	95.5

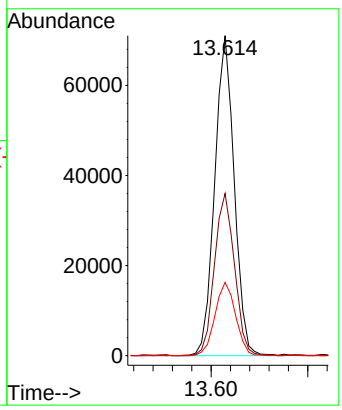




#89
n-Butylbenzene
Concen: 4.850 ug/l
RT: 13.614 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 91 Resp: 9947

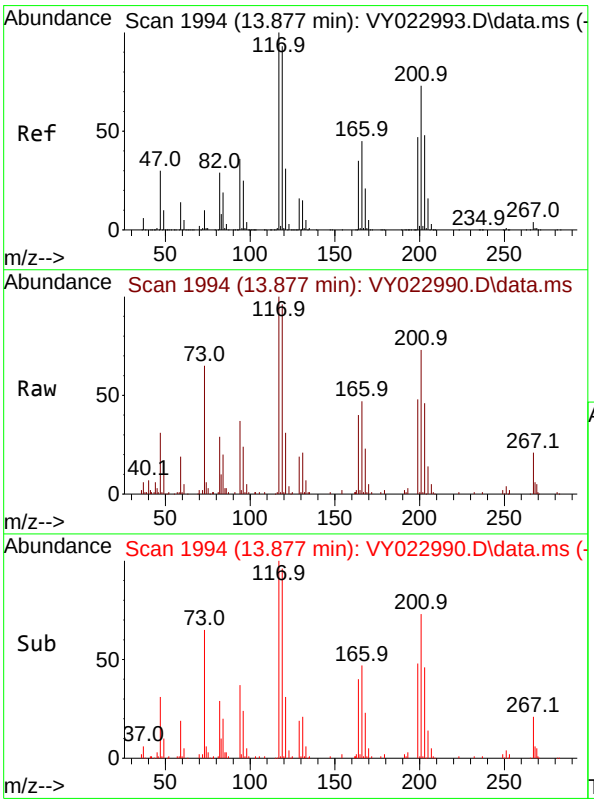
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.6	79.7
134	24.2	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

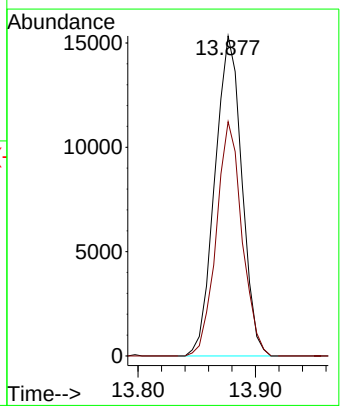
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

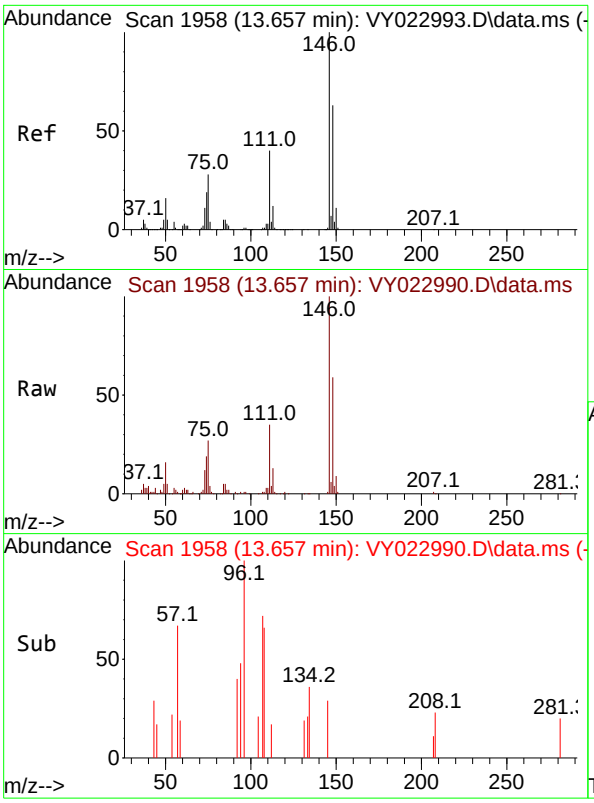


#90
Hexachloroethane
Concen: 5.310 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:117 Resp: 24435

Ion	Ratio	Lower	Upper
117	100		
201	69.9	36.1	108.5

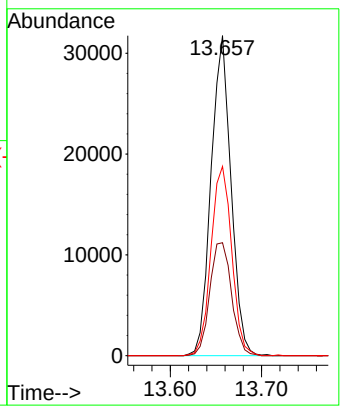




#91
1,2-Dichlorobenzene
Concen: 5.076 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:146 Resp: 4803

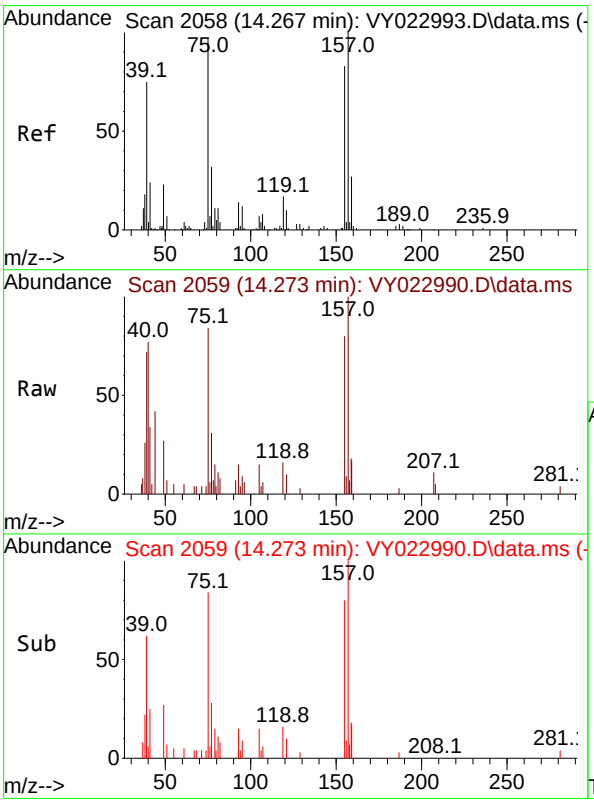
Ion	Ratio	Lower	Upper
146	100		
111	38.7	20.3	61.0
148	61.6	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

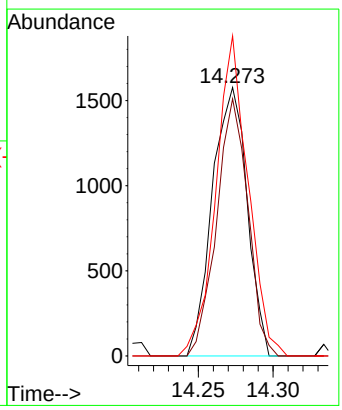
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

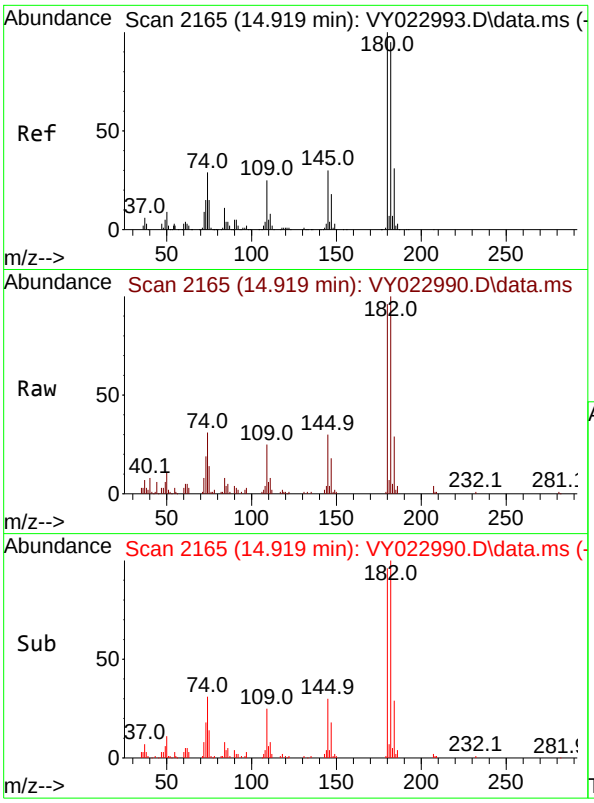


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.626 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 2548

Ion	Ratio	Lower	Upper
75	100		
155	86.1	42.8	128.3
157	110.1	54.3	162.9

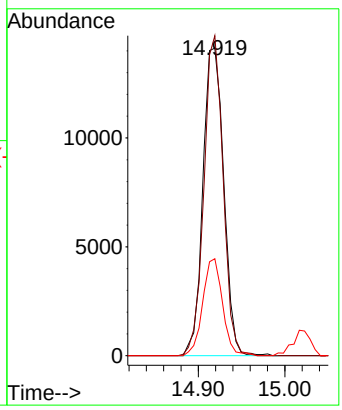




#93
1,2,4-Trichlorobenzene
Concen: 4.732 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:180 Resp: 2360

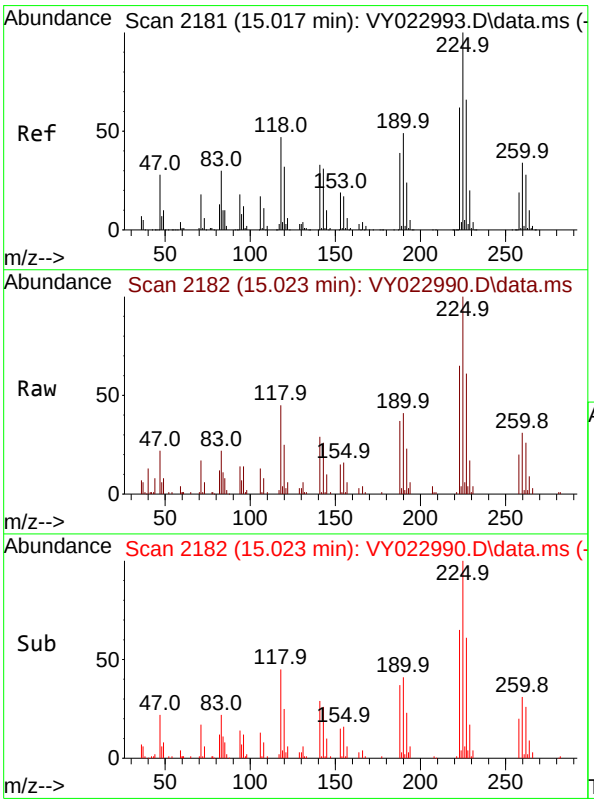
Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.5
145	30.0	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

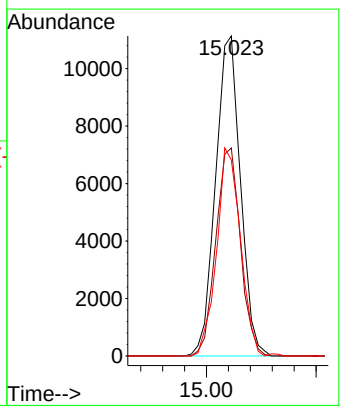
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

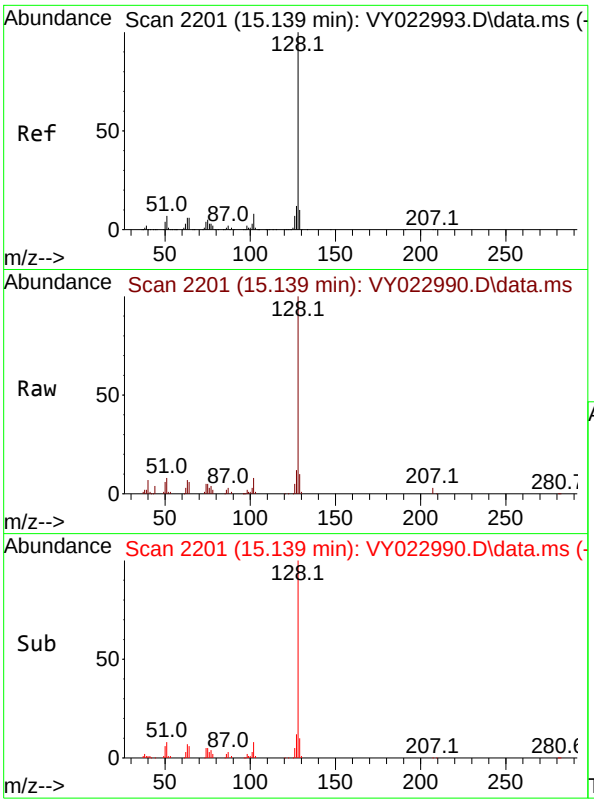


#94
Hexachlorobutadiene
Concen: 5.583 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:225 Resp: 17559

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.4	94.0
227	62.3	32.1	96.5

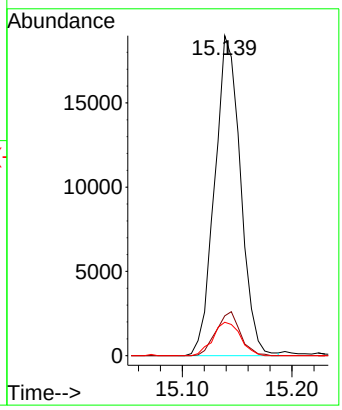




#95
Naphthalene
Concen: 3.885 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:128 Resp: 3108

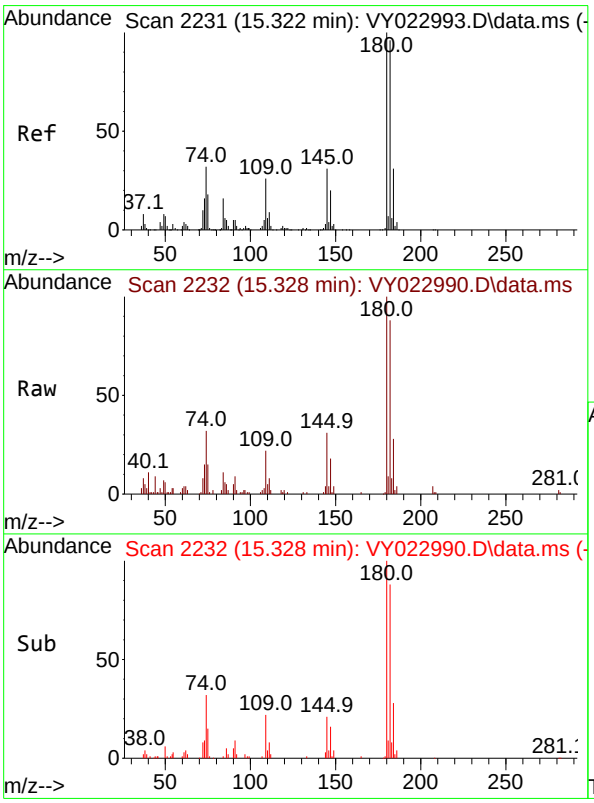
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.1	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

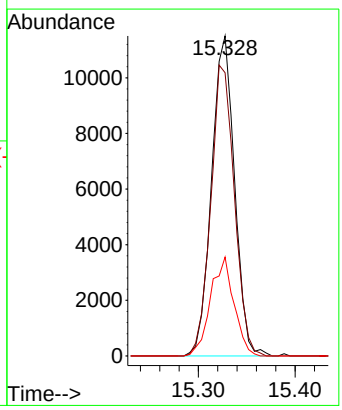
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.606 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:180 Resp: 18973

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.3	142.0
145	31.5	15.8	47.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	486665	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	793912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	634272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	281482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	46989	9.538	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	19.080%#		
35) Dibromofluoromethane	7.640	113	47940	9.519	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.040%#		
50) Toluene-d8	10.103	98	191385	9.583	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.160%#		
62) 4-Bromofluorobenzene	12.402	95	56048	8.915	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	17.840%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	44400	10.745	ug/l	97
3) Chloromethane	2.068	50	72344	10.296	ug/l	98
4) Vinyl Chloride	2.202	62	91411	10.269	ug/l	100
5) Bromomethane	2.592	94	64771	10.082	ug/l	98
6) Chloroethane	2.733	64	61053	10.269	ug/l	98
7) Trichlorofluoromethane	3.050	101	106798	10.335	ug/l	97
8) Diethyl Ether	3.452	74	26530	9.809	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	55150	10.159	ug/l	98
10) Methyl Iodide	4.007	142	52773	9.358	ug/l	97
11) Tert butyl alcohol	4.848	59	14081	47.002	ug/l	96
12) 1,1-Dichloroethene	3.787	96	52948	10.239	ug/l	95
13) Acrolein	3.653	56	8925	66.092	ug/l	93
14) Allyl chloride	4.379	41	75202	9.545	ug/l	99
15) Acrylonitrile	5.061	53	43540	42.502	ug/l	97
16) Acetone	3.867	43	44190	49.482	ug/l	91
17) Carbon Disulfide	4.104	76	158034	10.083	ug/l	99
18) Methyl Acetate	4.391	43	24878	8.228	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	111411	8.982	ug/l	95
20) Methylene Chloride	4.616	84	101278	9.348	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	55587	9.657	ug/l	91
22) Diisopropyl ether	6.019	45	155004	9.274	ug/l	95
23) Vinyl Acetate	5.958	43	373434	44.343	ug/l	100
24) 1,1-Dichloroethane	5.915	63	103495	9.859	ug/l	98
25) 2-Butanone	6.890	43	57204	44.650	ug/l	97
26) 2,2-Dichloropropane	6.878	77	90050	9.787	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	63030	9.501	ug/l	99
28) Bromochloromethane	7.244	49	38094	9.356	ug/l	98
29) Tetrahydrofuran	7.262	42	33741	41.597	ug/l	99
30) Chloroform	7.421	83	104738	9.890	ug/l	91
31) Cyclohexane	7.701	56	98453	10.037	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	94990	9.886	ug/l	99
36) 1,1-Dichloropropene	7.835	75	76035	9.585	ug/l	99
37) Ethyl Acetate	6.982	43	27491m	9.331	ug/l	
38) Carbon Tetrachloride	7.817	117	84148	9.764	ug/l	99
39) Methylcyclohexane	9.103	83	96640	9.412	ug/l	96
40) Benzene	8.079	78	225702	9.450	ug/l	95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	16608m	10.680	ug/l		
42) 1,2-Dichloroethane	8.158	62	54251	9.130	ug/l		98
43) Isopropyl Acetate	8.195	43	49891	8.525	ug/l	#	85
44) Trichloroethene	8.866	130	59337	9.672	ug/l		99
45) 1,2-Dichloropropane	9.140	63	51870	9.300	ug/l		97
46) Dibromomethane	9.231	93	25659	8.900	ug/l		97
47) Bromodichloromethane	9.420	83	73468	9.219	ug/l		96
48) Methyl methacrylate	9.219	41	23583	8.347	ug/l		97
49) 1,4-Dioxane	9.225	88	5158	169.729	ug/l		97
51) 4-Methyl-2-Pentanone	10.000	43	123354	41.528	ug/l		98
52) Toluene	10.170	92	137786	9.279	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	59746	8.734	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	73674	8.935	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	33848	8.933	ug/l		95
56) Ethyl methacrylate	10.439	69	38473	8.133	ug/l		97
57) 1,3-Dichloropropane	10.713	76	58102	8.876	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	92984	40.157	ug/l		98
59) 2-Hexanone	10.756	43	79059	40.492	ug/l		100
60) Dibromochloromethane	10.908	129	43711	8.809	ug/l		99
61) 1,2-Dibromoethane	11.012	107	30636	8.903	ug/l		99
64) Tetrachloroethene	10.646	164	68560	10.575	ug/l		99
65) Chlorobenzene	11.438	112	146007	9.755	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	48542	9.509	ug/l		100
67) Ethyl Benzene	11.518	91	247552	9.331	ug/l		100
68) m/p-Xylenes	11.627	106	186725	18.350	ug/l		99
69) o-Xylene	11.950	106	86193	9.127	ug/l		100
70) Styrene	11.969	104	137633	8.898	ug/l		99
71) Bromoform	12.127	173	23193	8.949	ug/l	#	98
73) Isopropylbenzene	12.249	105	229285	9.608	ug/l		100
74) N-amyl acetate	12.066	43	39921	8.873	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.499	83	31610	9.153	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	33738m	9.523	ug/l		
77) Bromobenzene	12.530	156	48601	9.390	ug/l		98
78) n-propylbenzene	12.591	91	273348	9.618	ug/l		100
79) 2-Chlorotoluene	12.676	91	154267	9.652	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	178551	9.486	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	10642	9.037	ug/l		97
82) 4-Chlorotoluene	12.774	91	154131	9.561	ug/l		98
83) tert-Butylbenzene	12.993	119	157733	9.277	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	172262	9.297	ug/l		100
85) sec-Butylbenzene	13.170	105	242143	9.504	ug/l		100
86) p-Isopropyltoluene	13.286	119	190964	9.229	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	97707	9.354	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	96650	9.564	ug/l		97
89) n-Butylbenzene	13.615	91	176599	9.249	ug/l		99
90) Hexachloroethane	13.877	117	40137	9.369	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	81887	9.294	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	4700	9.166	ug/l		95
93) 1,2,4-Trichlorobenzene	14.913	180	40871	8.800	ug/l		99
94) Hexachlorobutadiene	15.017	225	27714	9.465	ug/l		98
95) Naphthalene	15.139	128	59039	7.926	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	33923	8.846	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

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

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

ICAL Form

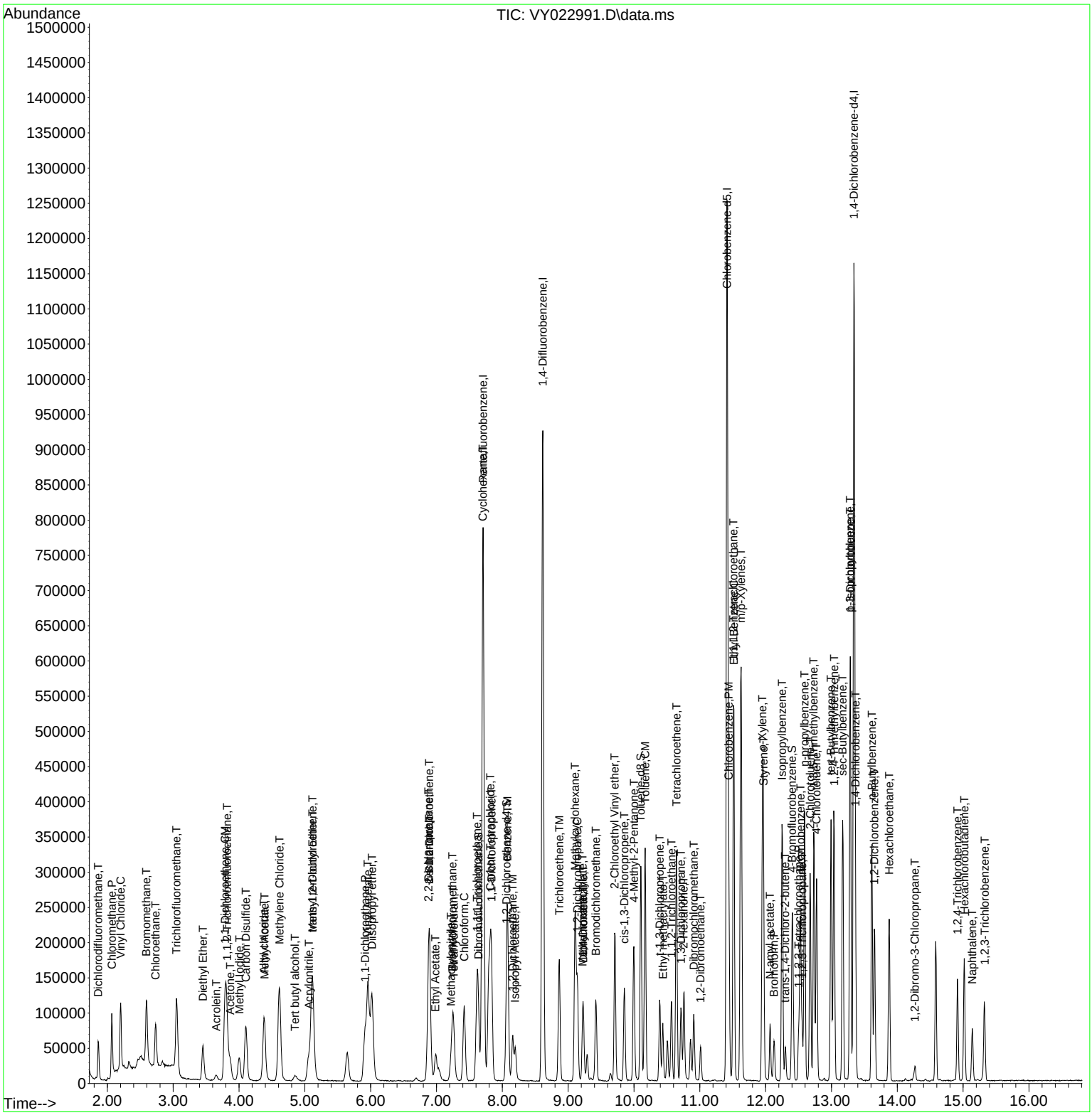
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

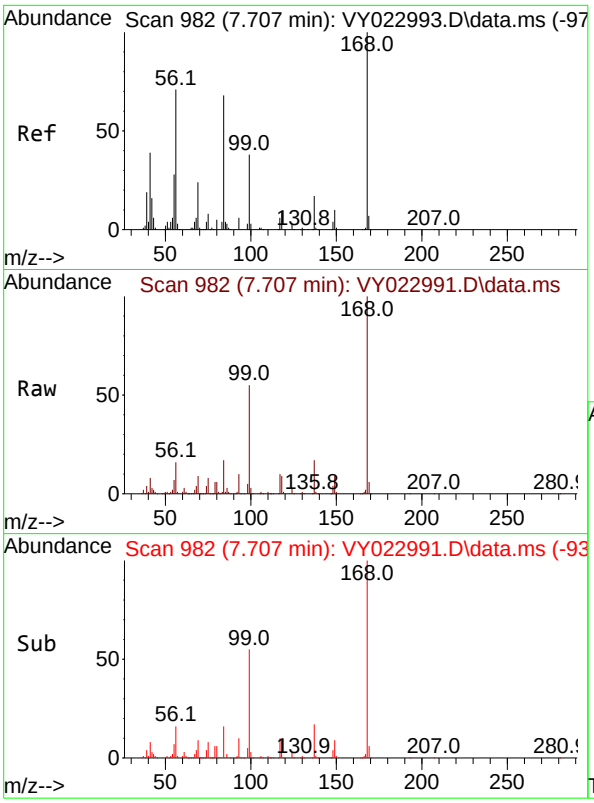
Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

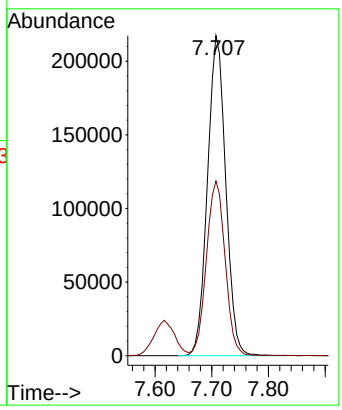




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:168 Resp: 48666

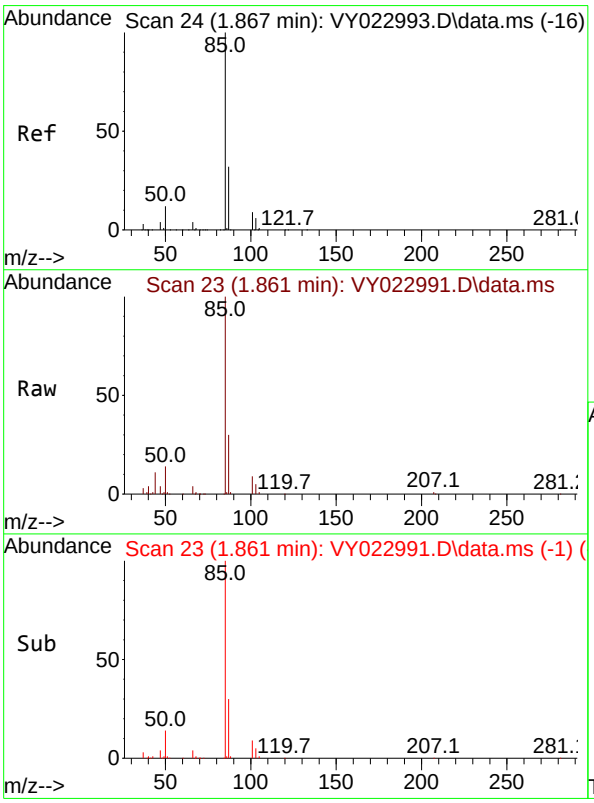
Ion	Ratio	Lower	Upper
168	100		
99	54.5	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

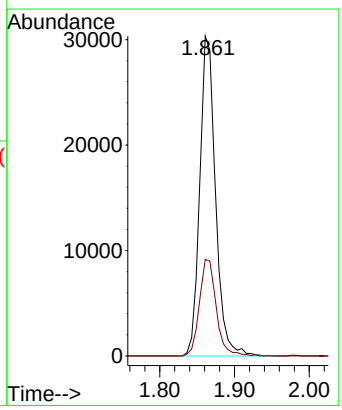
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

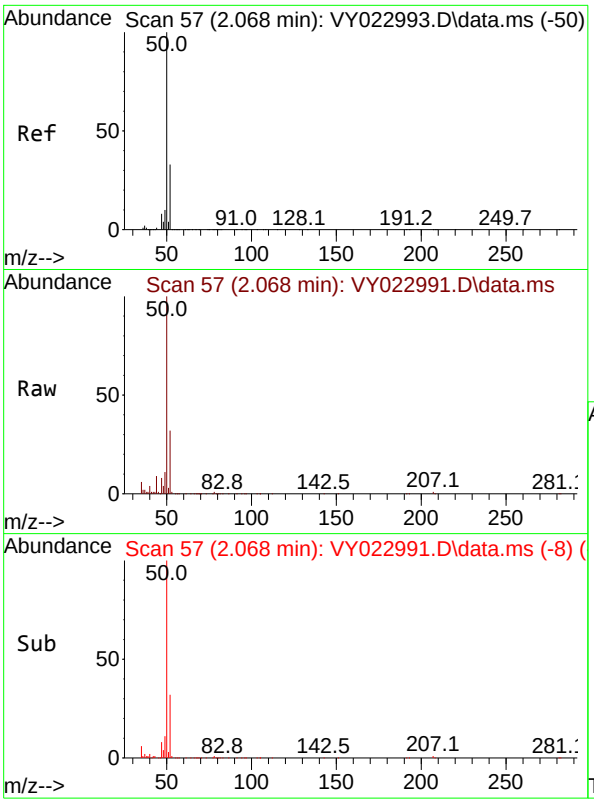


#2
Dichlorodifluoromethane
Concen: 10.745 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 85 Resp: 44400

Ion	Ratio	Lower	Upper
85	100		
87	30.2	16.0	47.9

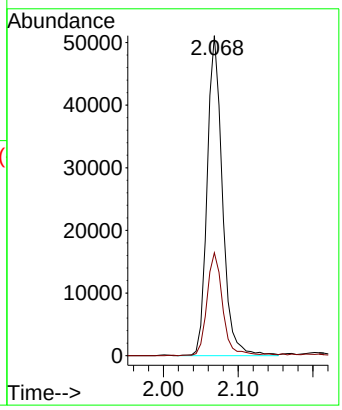




#3
Chloromethane
Concen: 10.296 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 50 Resp: 7234

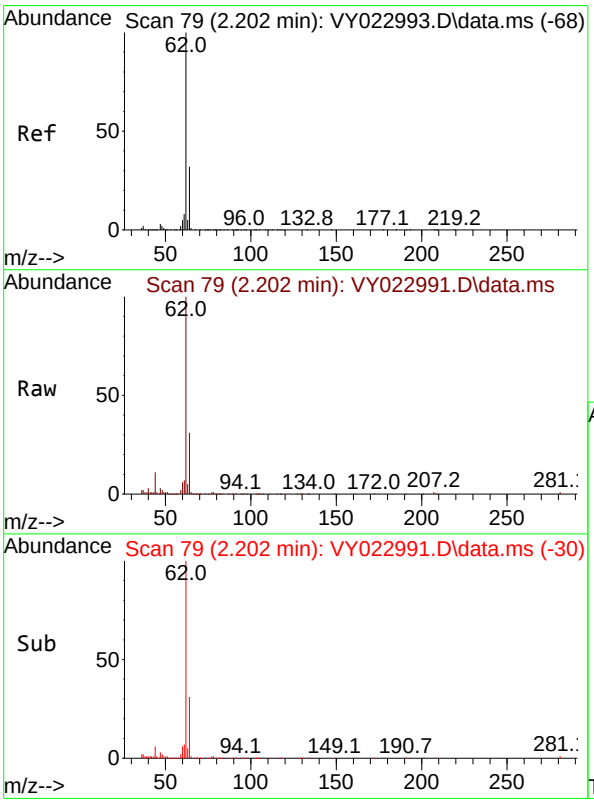
Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

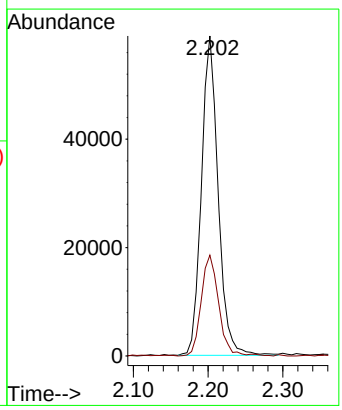
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

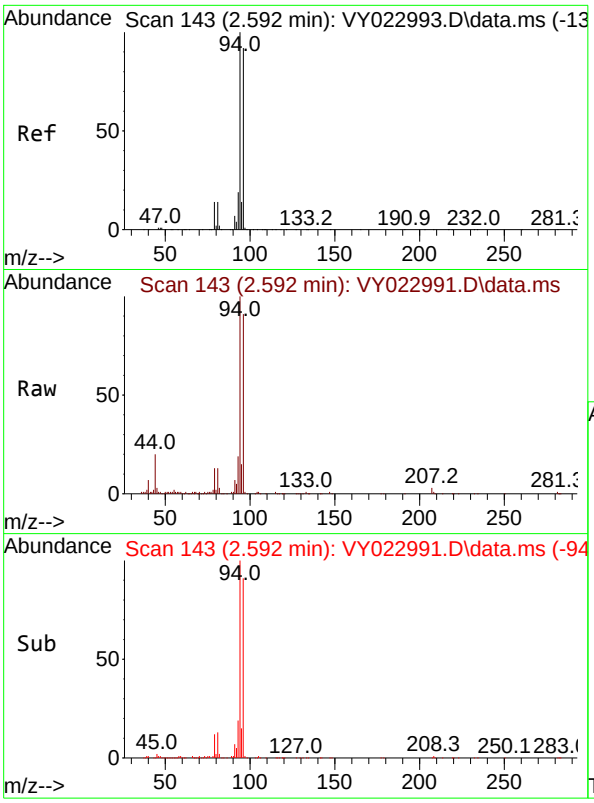


#4
Vinyl Chloride
Concen: 10.269 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 62 Resp: 91411

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.2	37.8





#5
Bromomethane
Concen: 10.082 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

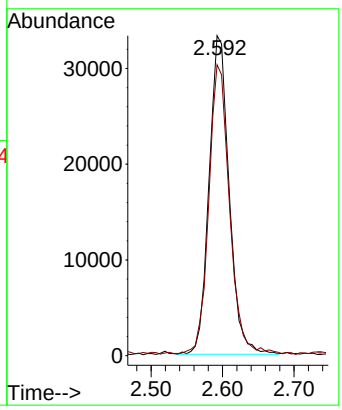
Tgt Ion: 94 Resp: 6477

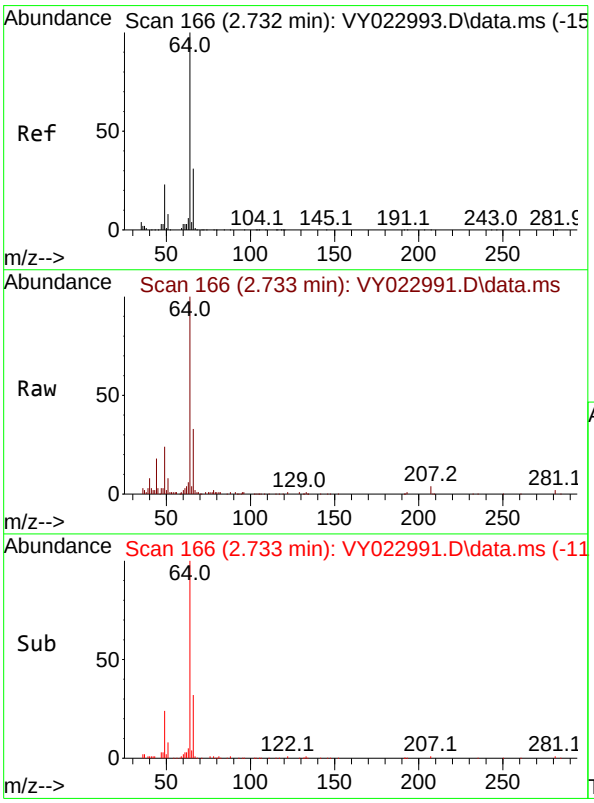
Ion	Ratio	Lower	Upper
94	100		
96	90.6	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

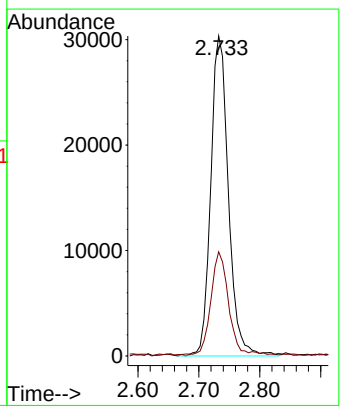


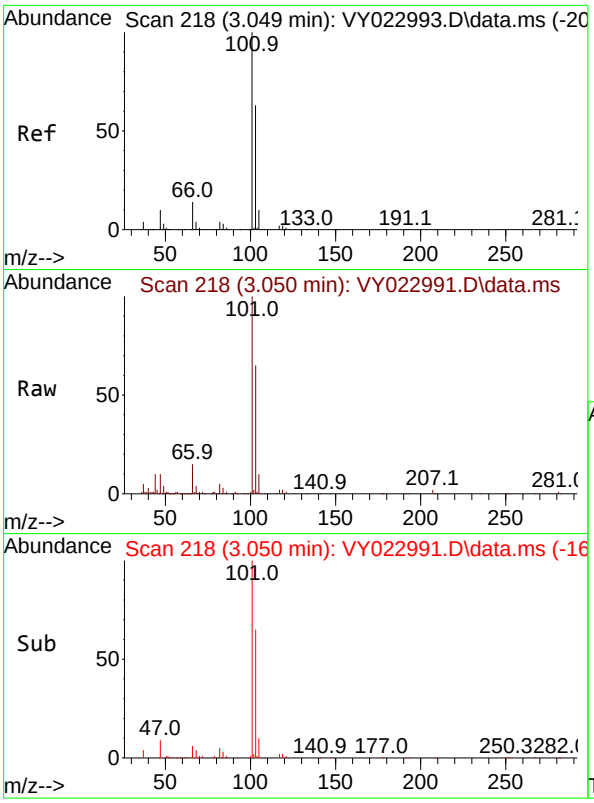


#6
Chloroethane
Concen: 10.269 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 64 Resp: 61053

Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.9	37.3

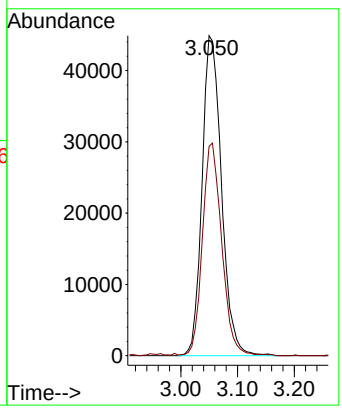




#7
Trichlorofluoromethane
Concen: 10.335 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:101 Resp: 10679

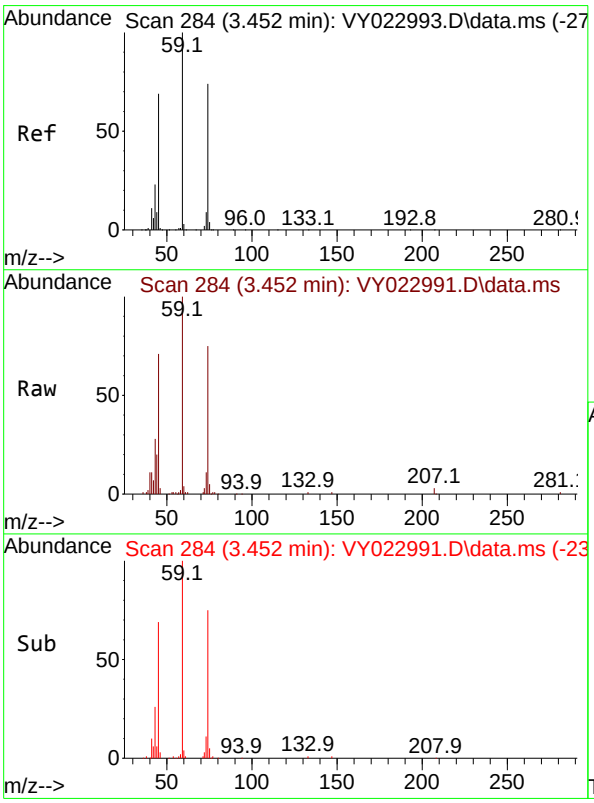
Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

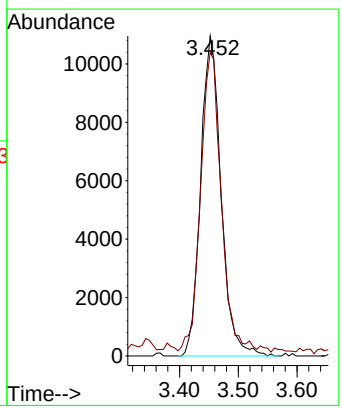
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

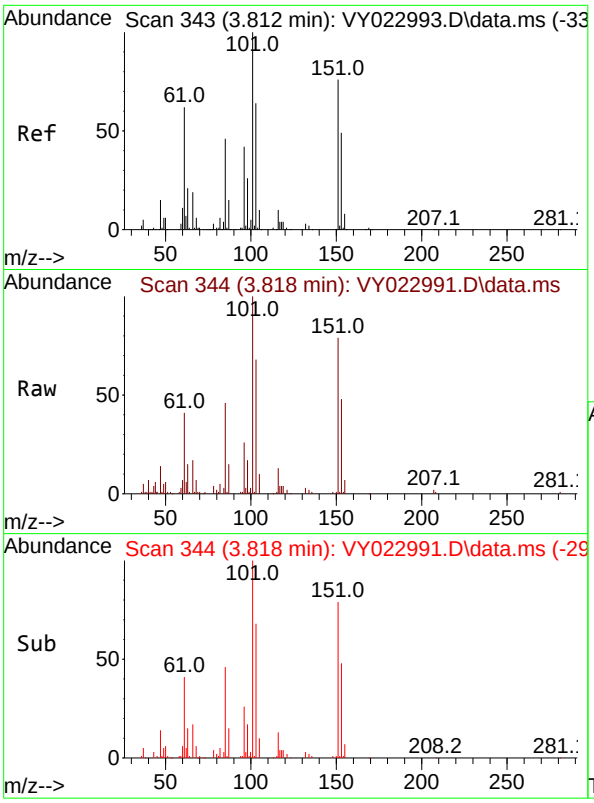


#8
Diethyl Ether
Concen: 9.809 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 74 Resp: 26530

Ion	Ratio	Lower	Upper
74	100		
45	93.0	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.159 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

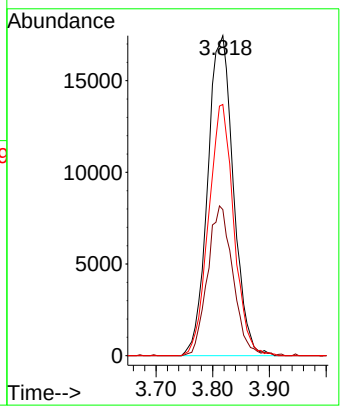
Tgt Ion:101 Resp: 5515

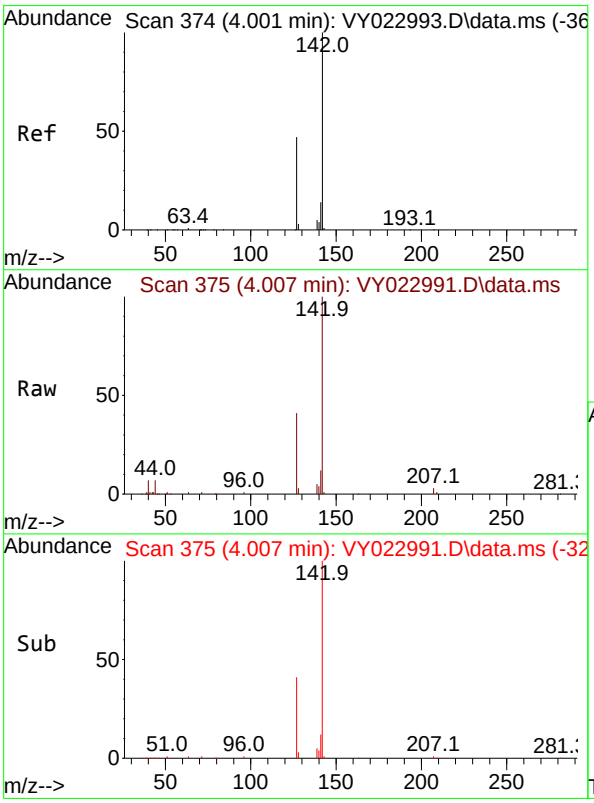
Ion	Ratio	Lower	Upper
101	100		
85	46.3	37.2	55.8
151	76.9	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

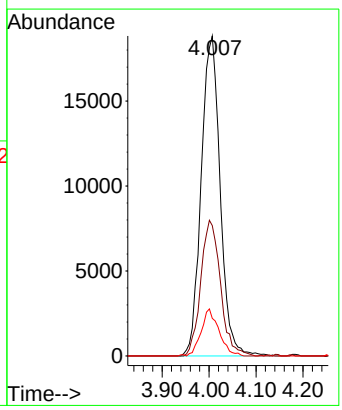


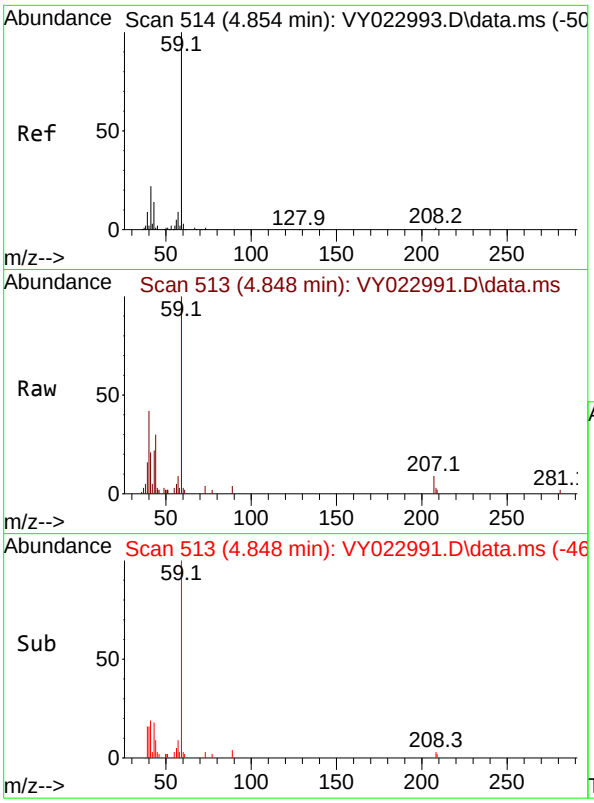


#10
Methyl Iodide
Concen: 9.358 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:142 Resp: 52773

Ion	Ratio	Lower	Upper
142	100		
127	44.0	37.0	55.6
141	13.9	11.4	17.2

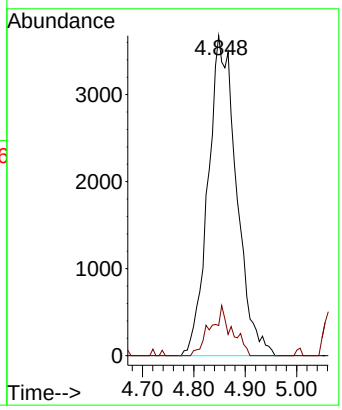




#11
Tert butyl alcohol
Concen: 47.002 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 59 Resp: 1408

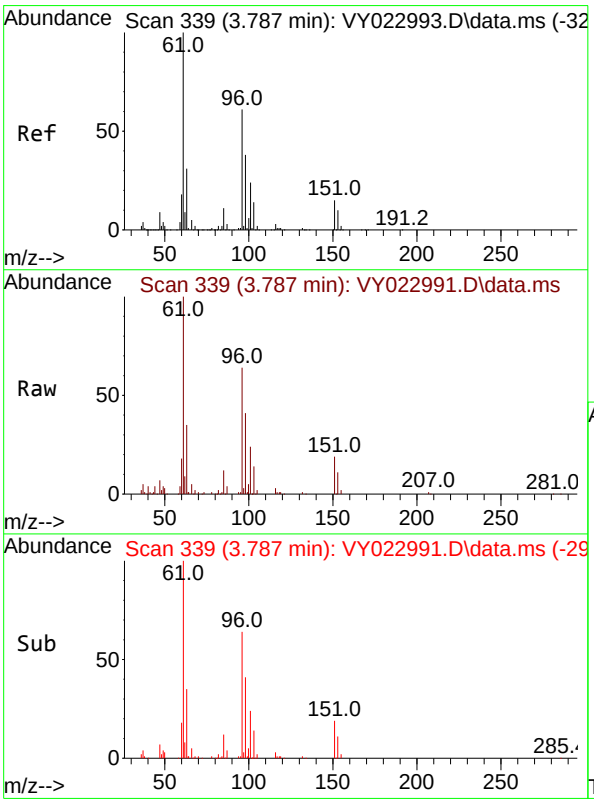
Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

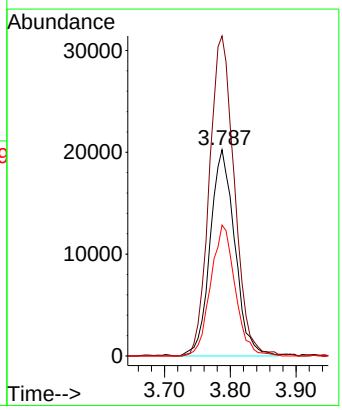
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

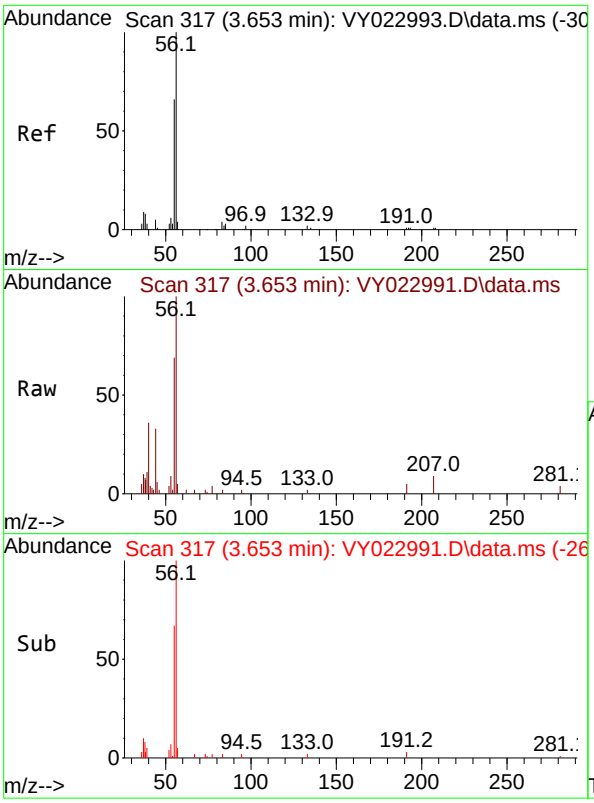


#12
1,1-Dichloroethene
Concen: 10.239 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 96 Resp: 52948

Ion	Ratio	Lower	Upper
96	100		
61	155.2	130.4	195.6
98	63.5	49.6	74.4

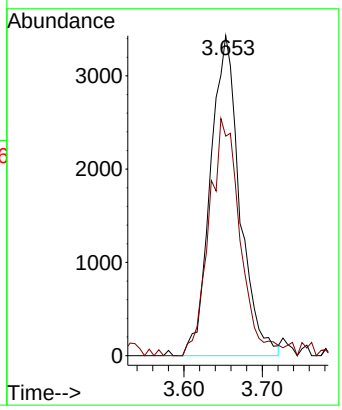




#13
Acrolein
Concen: 66.092 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 56 Resp: 892

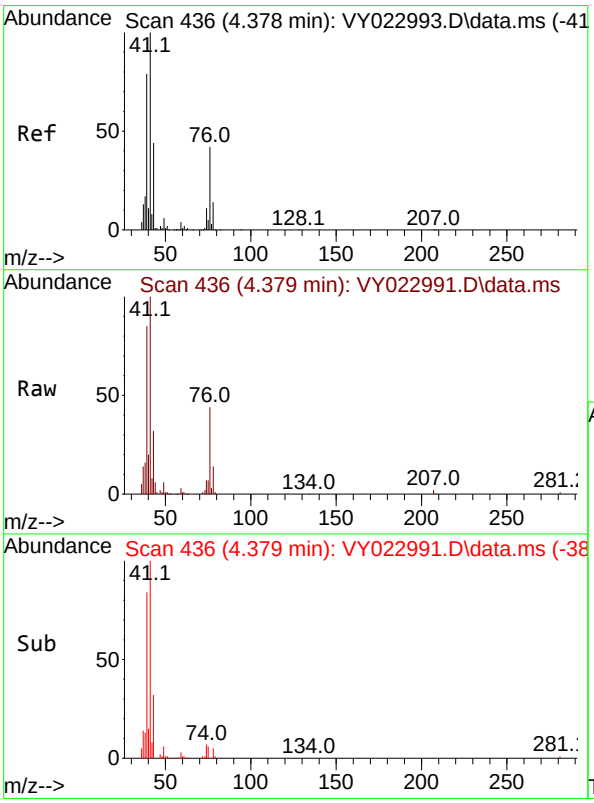
Ion	Ratio	Lower	Upper
56	100		
55	78.3	57.8	86.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

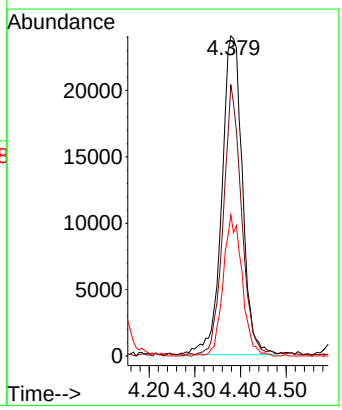
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

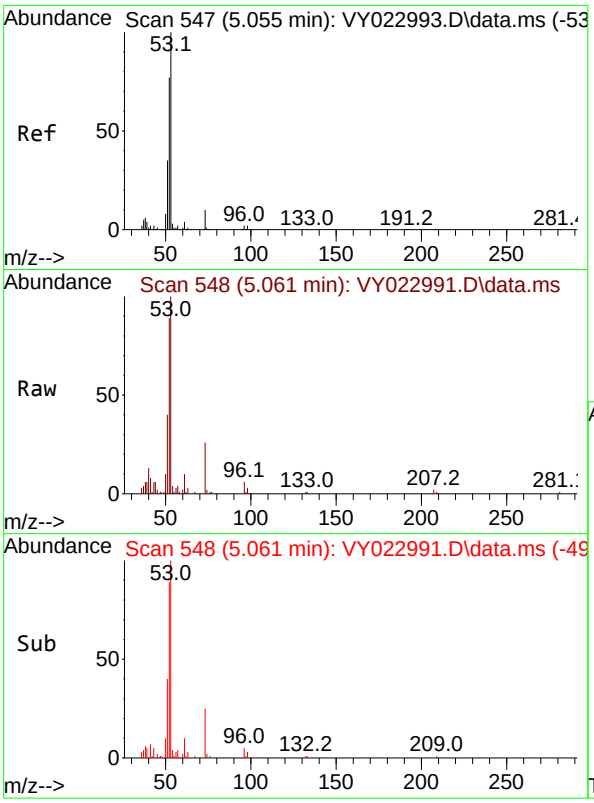


#14
Allyl chloride
Concen: 9.545 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 41 Resp: 75202

Ion	Ratio	Lower	Upper
41	100		
39	75.7	60.1	90.1
76	40.5	32.2	48.4

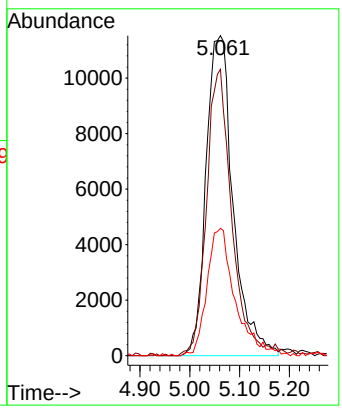




#15
Acrylonitrile
Concen: 42.502 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 53 Resp: 4354

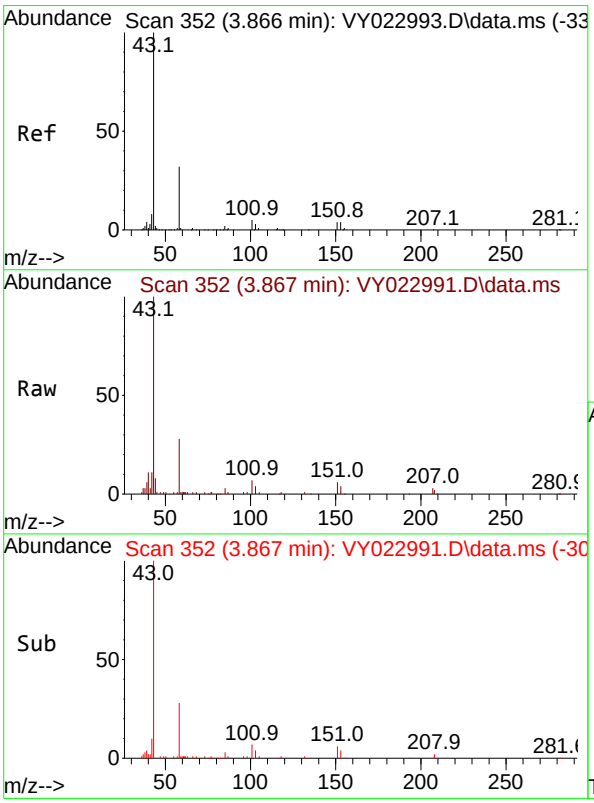
Ion	Ratio	Lower	Upper
53	100		
52	82.8	65.2	97.8
51	41.3	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

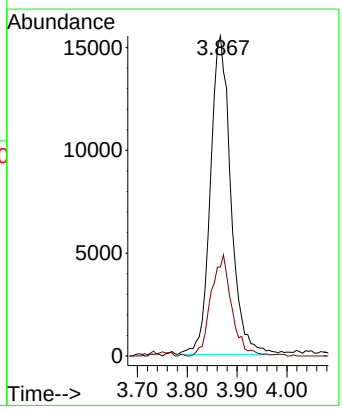
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

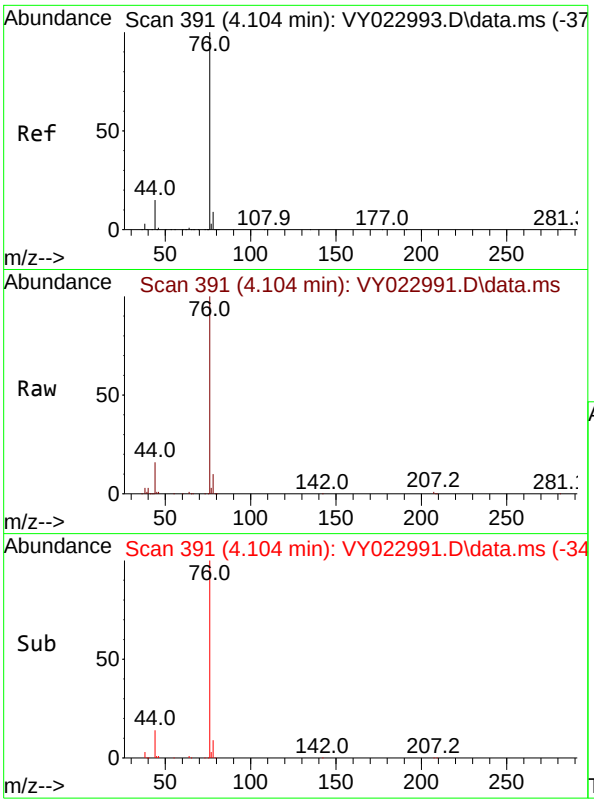


#16
Acetone
Concen: 49.482 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 44190

Ion	Ratio	Lower	Upper
43	100		
58	27.9	26.2	39.4





#17
Carbon Disulfide
Concen: 10.083 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

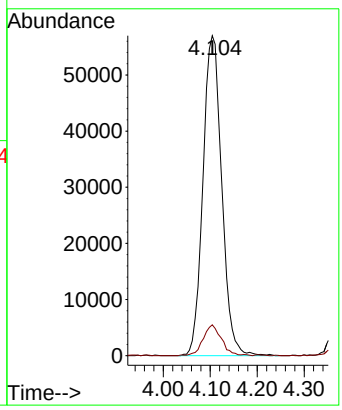
Tgt Ion: 76 Resp: 15803

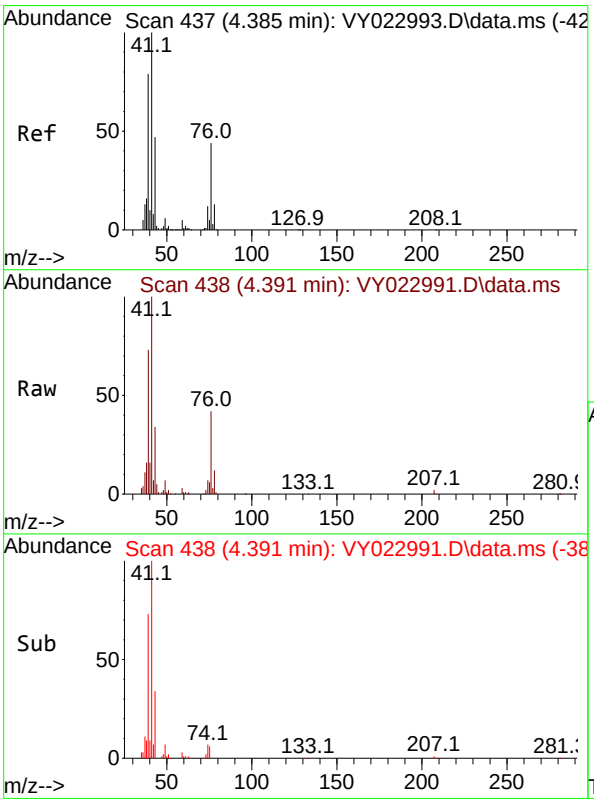
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

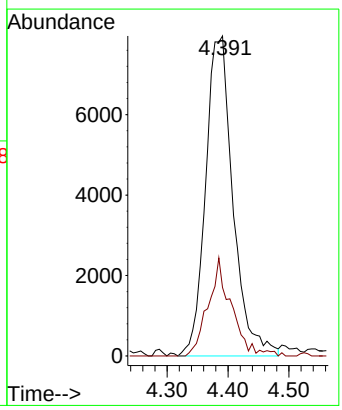


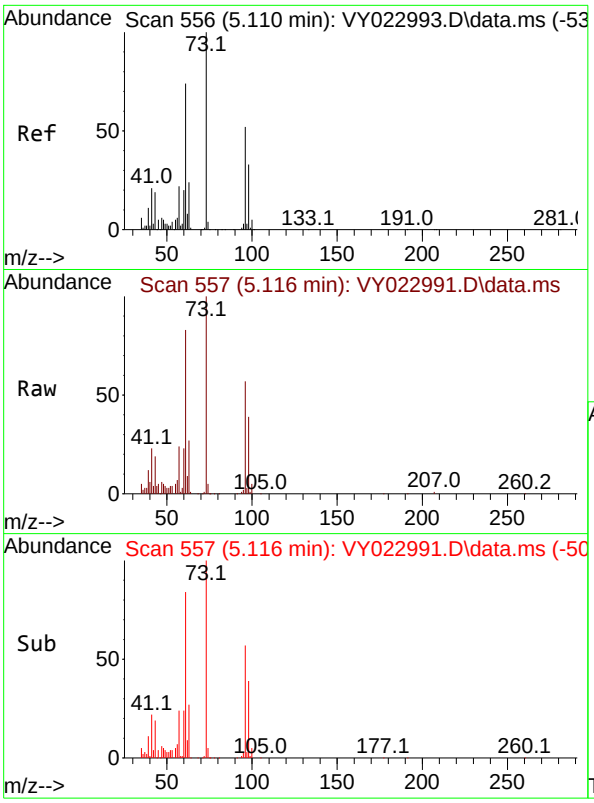


#18
Methyl Acetate
Concen: 8.228 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 24878

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.1	30.1

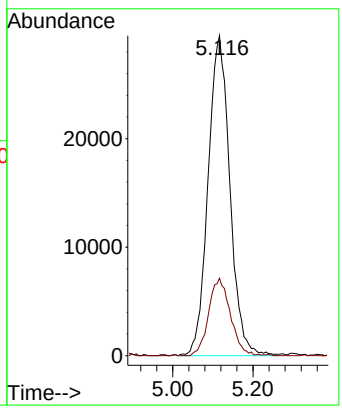




#19
Methyl tert-butyl Ether
Concen: 8.982 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 73 Resp: 11141

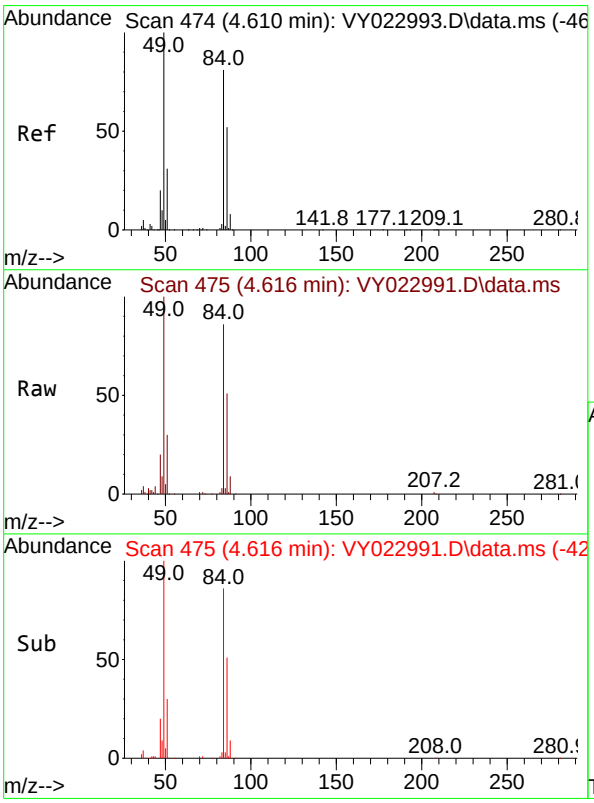
Ion	Ratio	Lower	Upper
73	100		
57	24.2	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

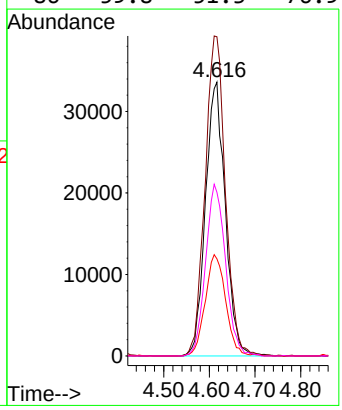
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

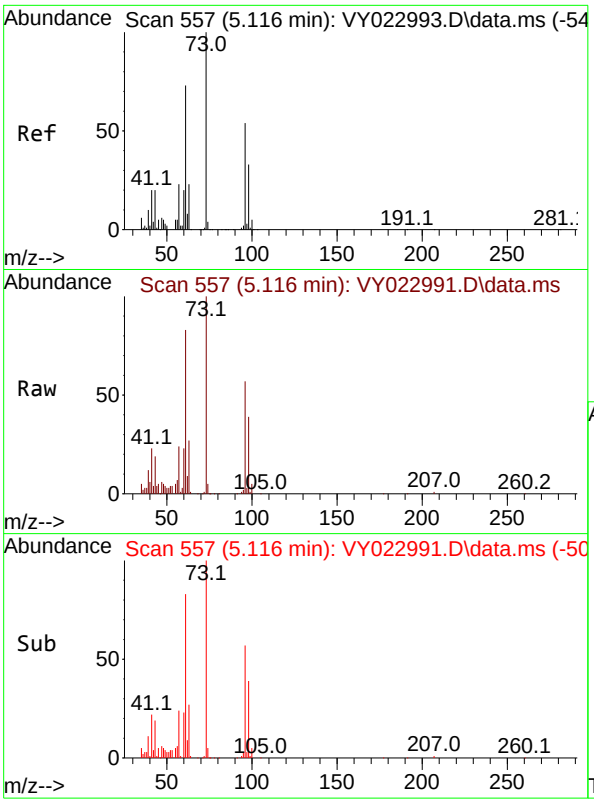


#20
Methylene Chloride
Concen: 9.348 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 84 Resp: 101278

Ion	Ratio	Lower	Upper
84	100		
49	116.6	98.2	147.4
51	35.5	30.5	45.7
86	59.8	51.3	76.9

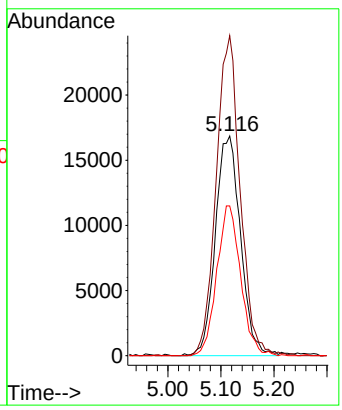




#21
trans-1,2-Dichloroethene
Concen: 9.657 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 96 Resp: 5558

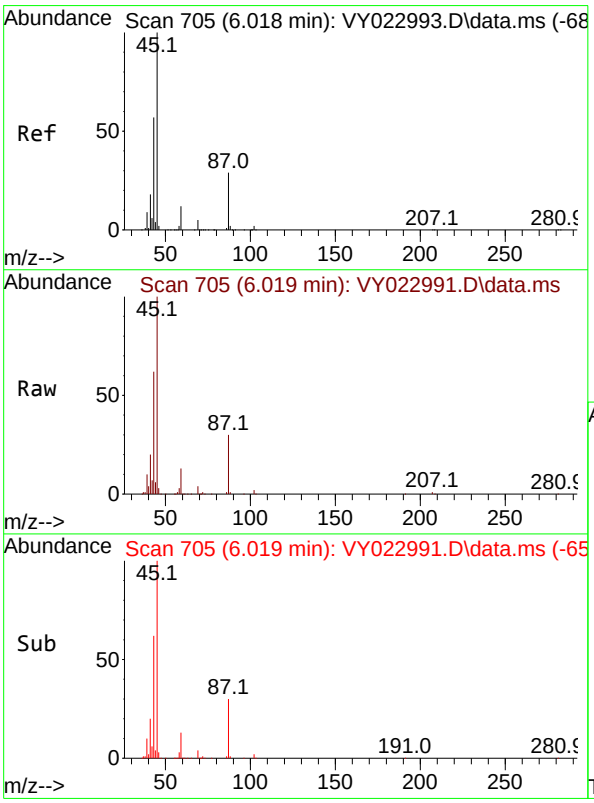
Ion	Ratio	Lower	Upper
96	100		
61	145.6	107.4	161.2
98	68.2	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

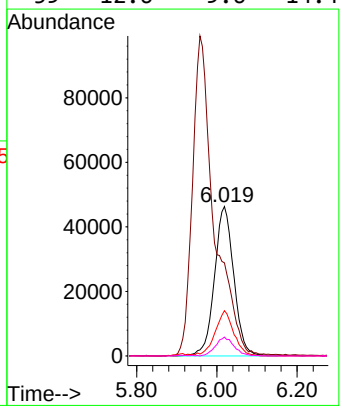
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

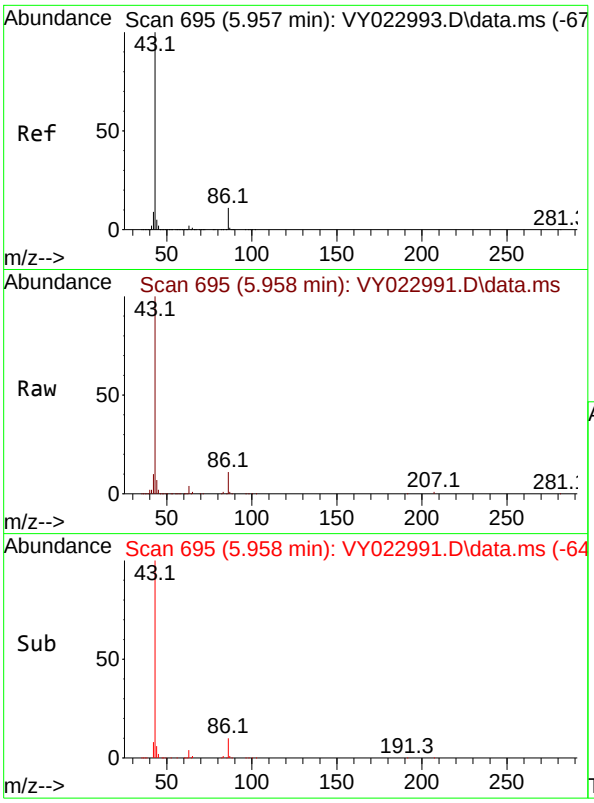


#22
Diisopropyl ether
Concen: 9.274 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 45 Resp: 155004

Ion	Ratio	Lower	Upper
45	100		
43	61.4	45.3	67.9
87	30.3	23.3	34.9
59	12.6	9.6	14.4





#23
Vinyl Acetate
Concen: 44.343 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

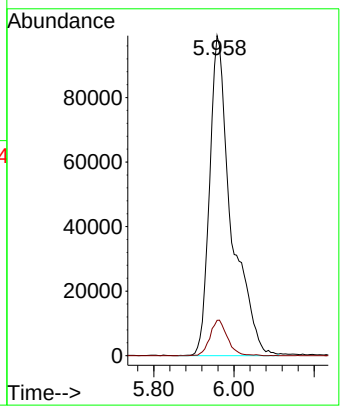
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

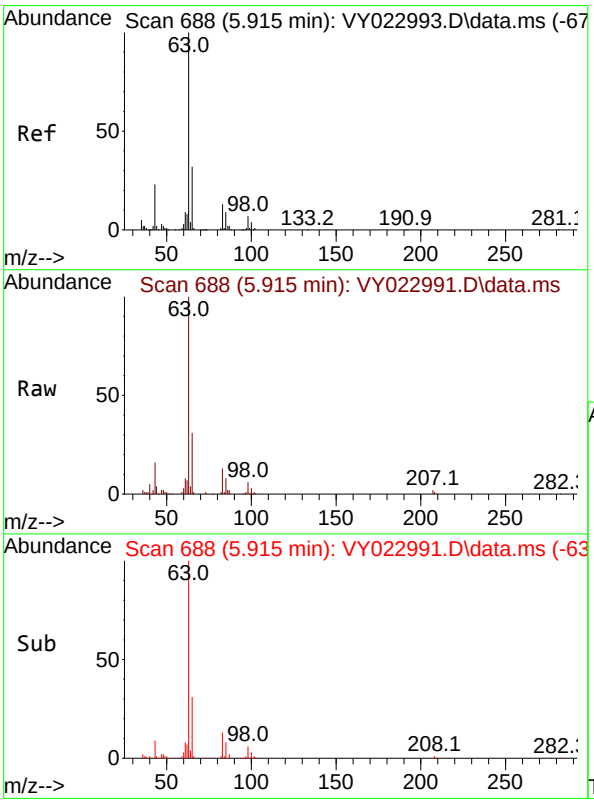
Tgt Ion: 43 Resp: 37343

Ion	Ratio	Lower	Upper
43	100		
86	11.1	9.0	13.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

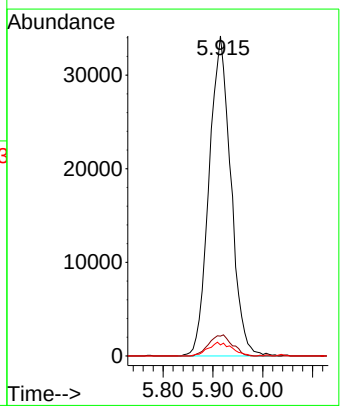


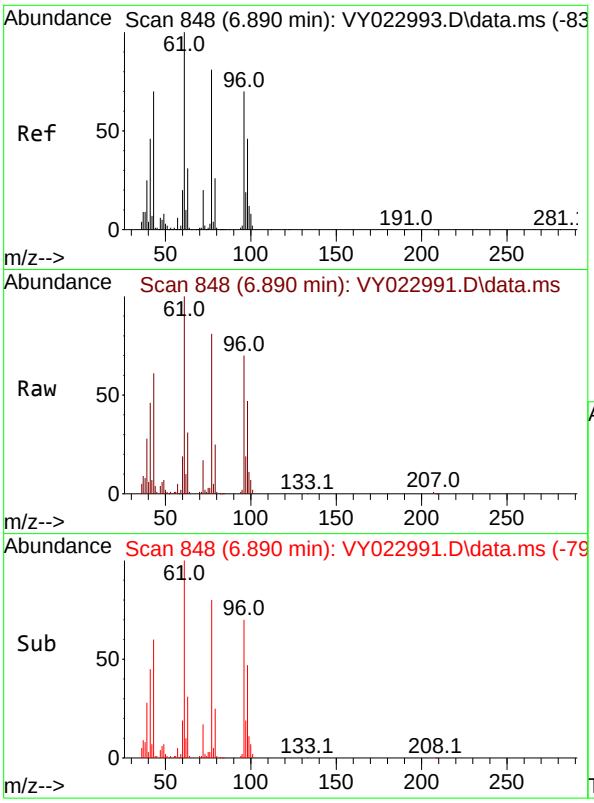


#24
1,1-Dichloroethane
Concen: 9.859 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 63 Resp: 103495

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.5	10.5
100	3.5	2.1	6.2





#25
2-Butanone
Concen: 44.650 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

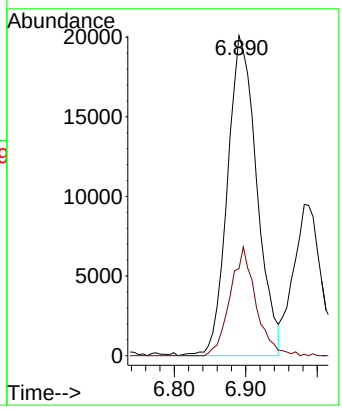
Tgt Ion: 43 Resp: 5720

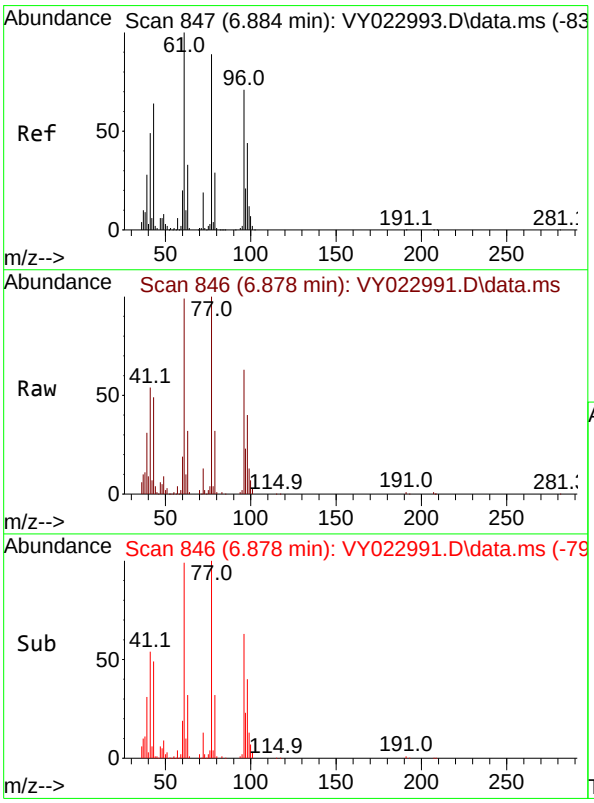
Ion	Ratio	Lower	Upper
43	100		
72	27.2	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

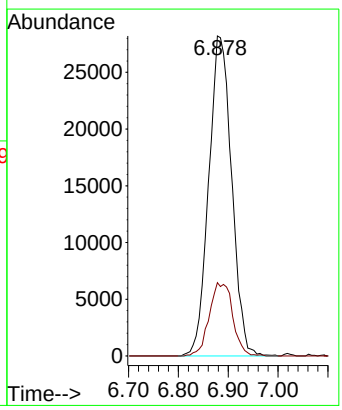


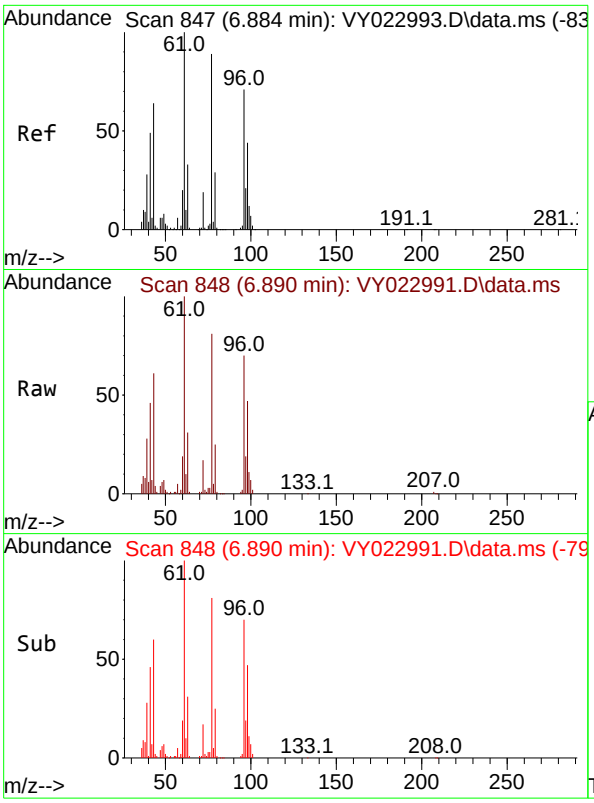


#26
2,2-Dichloropropane
Concen: 9.787 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 77 Resp: 90050

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.3	33.9

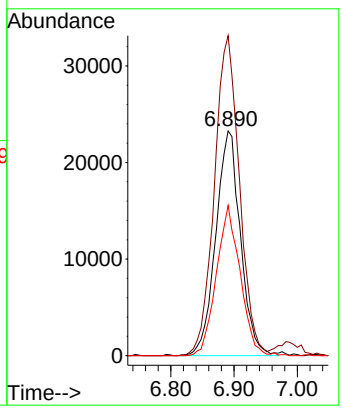




#27
cis-1,2-Dichloroethene
Concen: 9.501 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 96 Resp: 6303

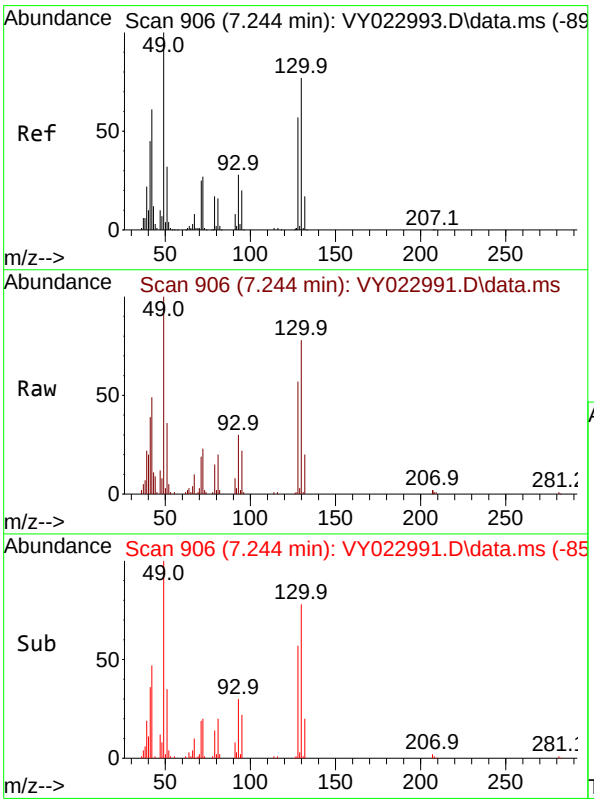
Ion	Ratio	Lower	Upper
96	100		
61	144.3	0.0	286.2
98	64.4	0.0	127.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

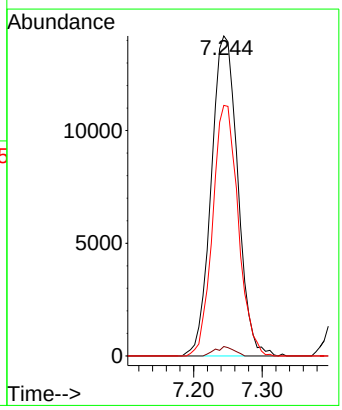
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

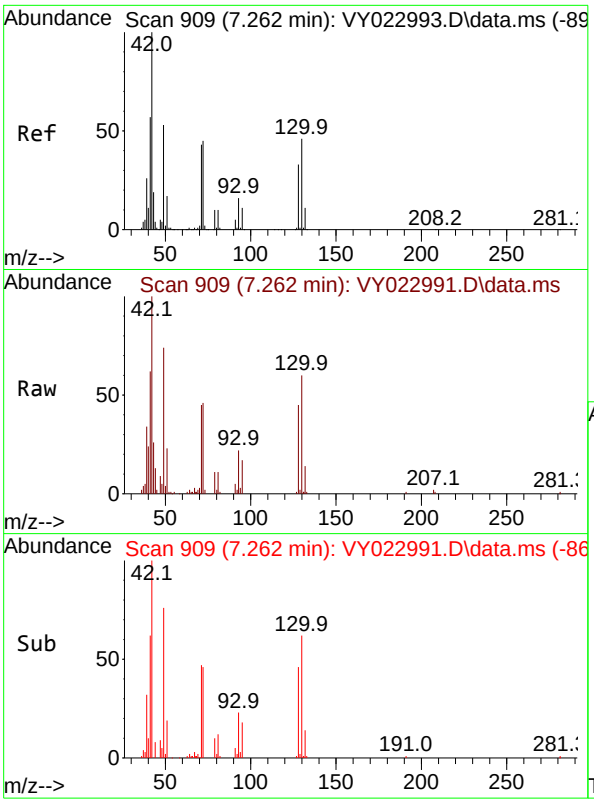


#28
Bromochloromethane
Concen: 9.356 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 49 Resp: 38094

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	75.6	61.8	92.8

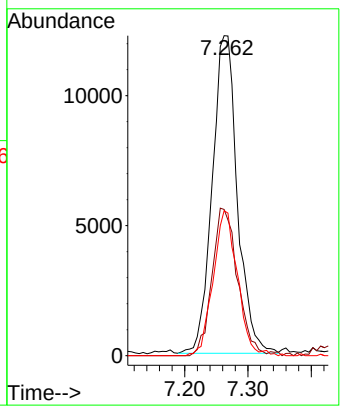




#29
Tetrahydrofuran
Concen: 41.597 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 42 Resp: 3374

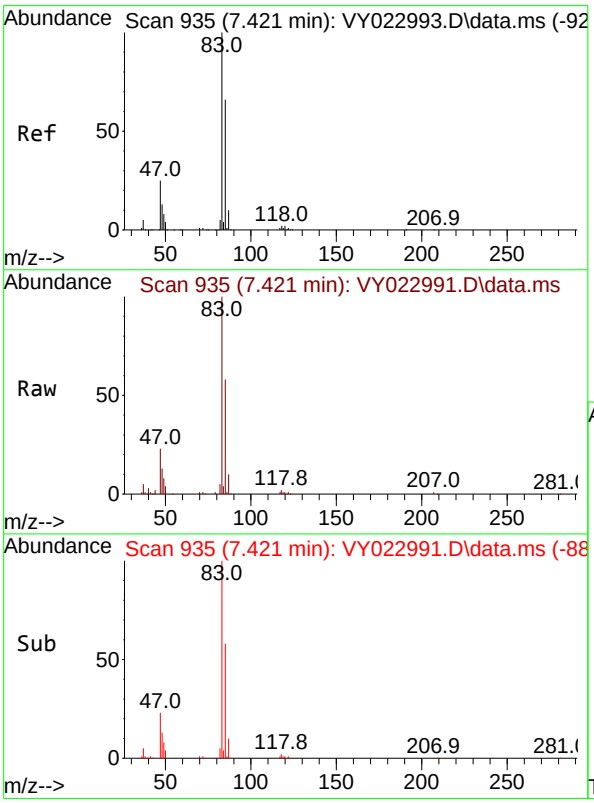
Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.5	56.3
71	44.2	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

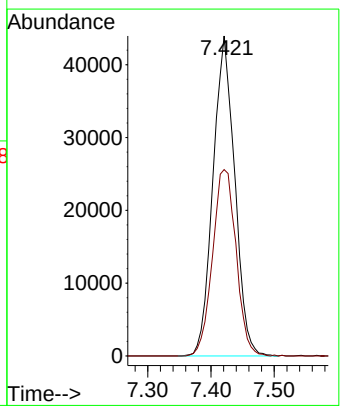
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

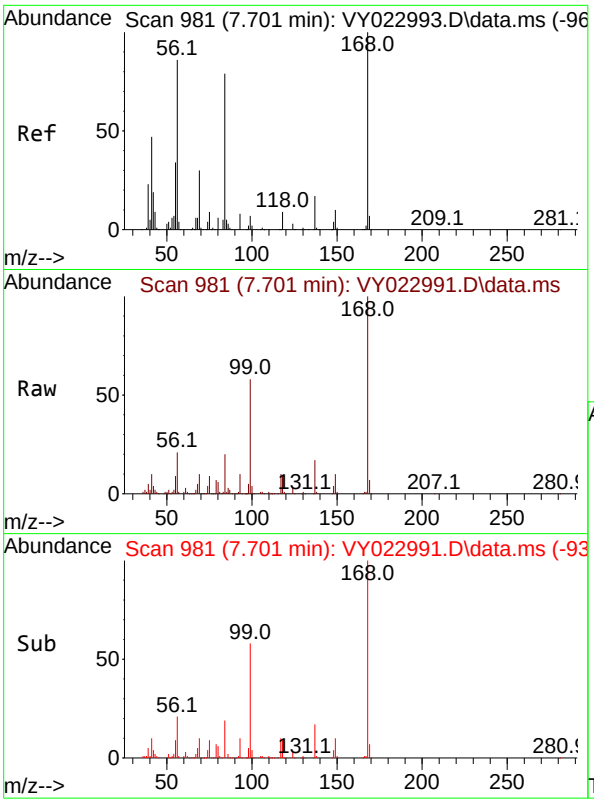


#30
Chloroform
Concen: 9.890 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 83 Resp: 104738

Ion	Ratio	Lower	Upper
83	100		
85	58.2	52.6	78.8

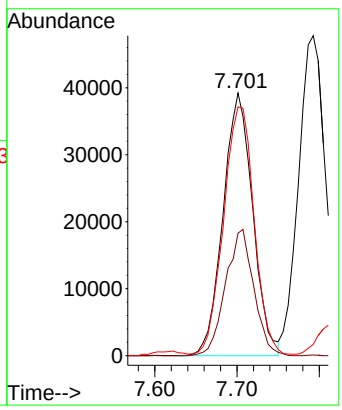




#31
Cyclohexane
Concen: 10.037 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 56 Resp: 9845

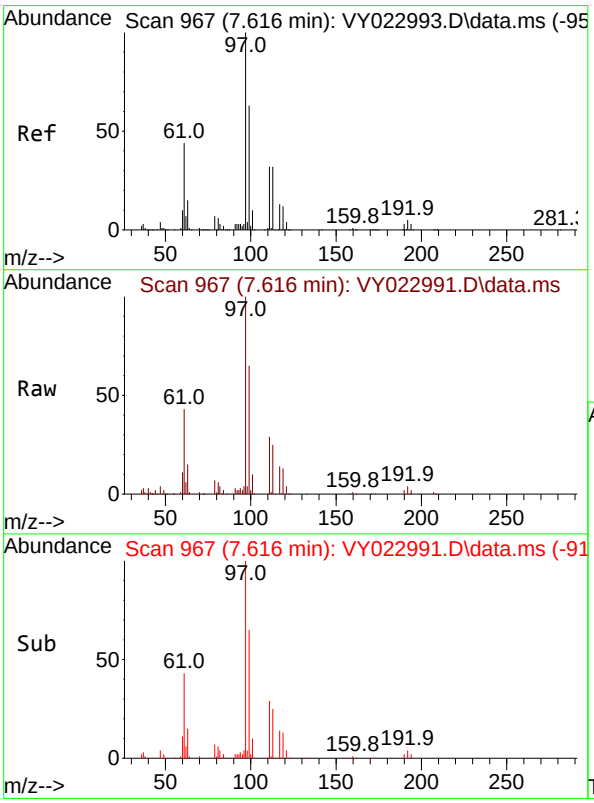
Ion	Ratio	Lower	Upper
56	100		
69	46.7	28.1	42.1
84	93.6	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

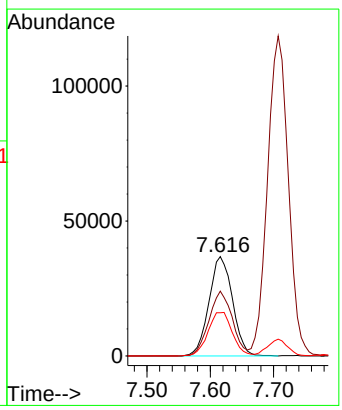
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

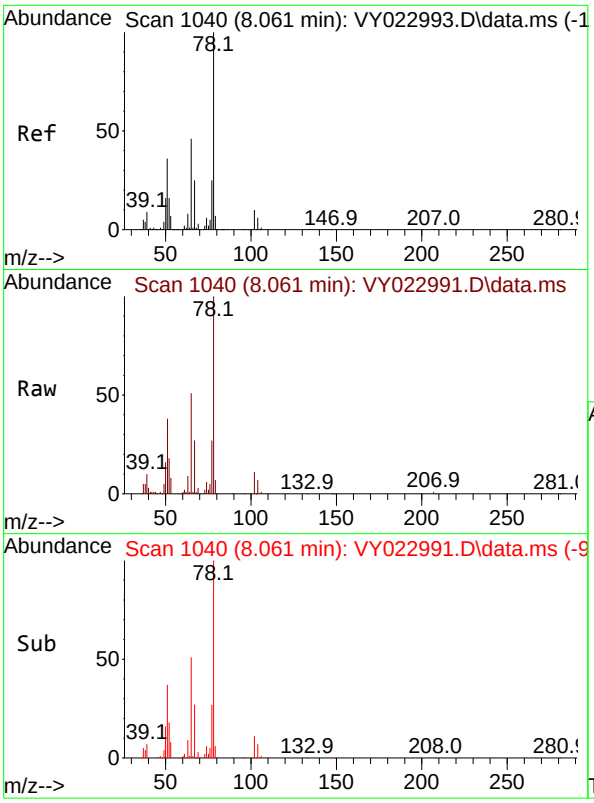


#32
1,1,1-Trichloroethane
Concen: 9.886 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 97 Resp: 94990

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.1	76.7
61	45.5	36.1	54.1

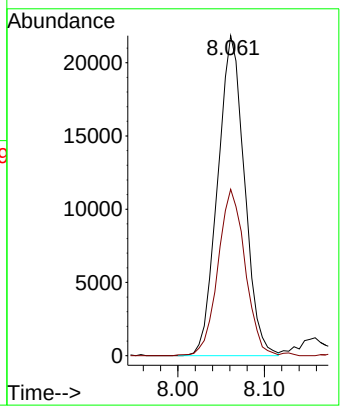




#33
1,2-Dichloroethane-d4
Concen: 9.538 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 65 Resp: 4698

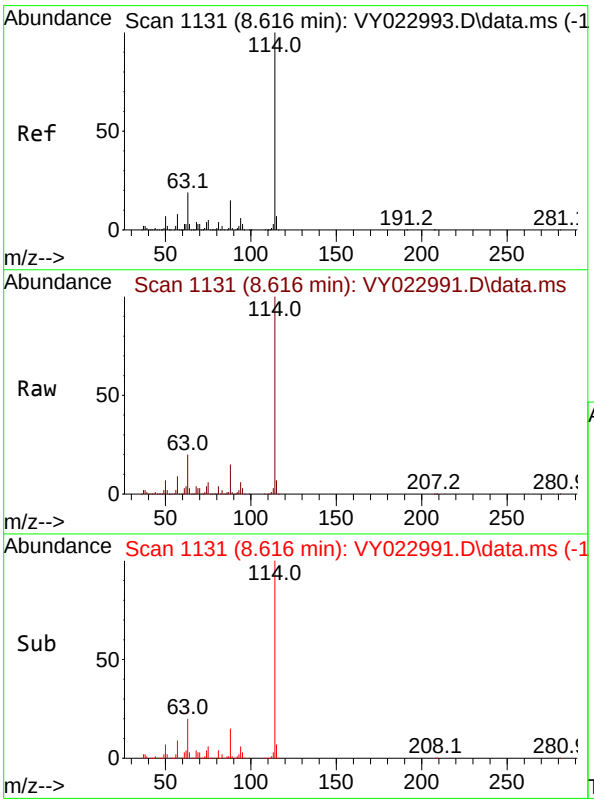
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

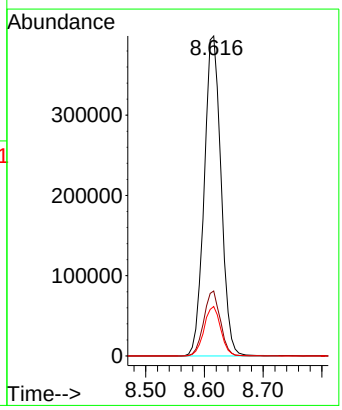
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

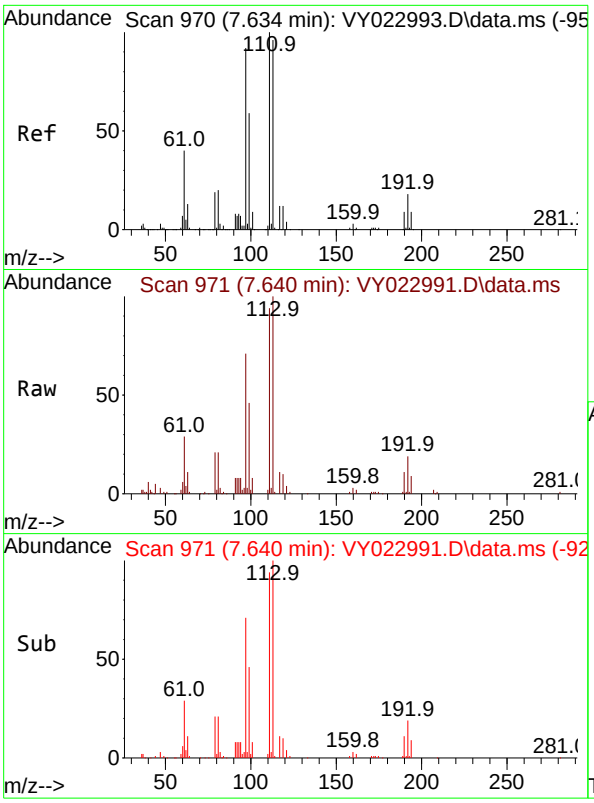


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:114 Resp: 793912

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	38.8
88	15.5	0.0	30.2

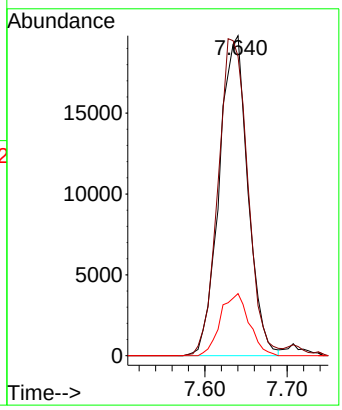




#35
Dibromofluoromethane
Concen: 9.519 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:113 Resp: 4794

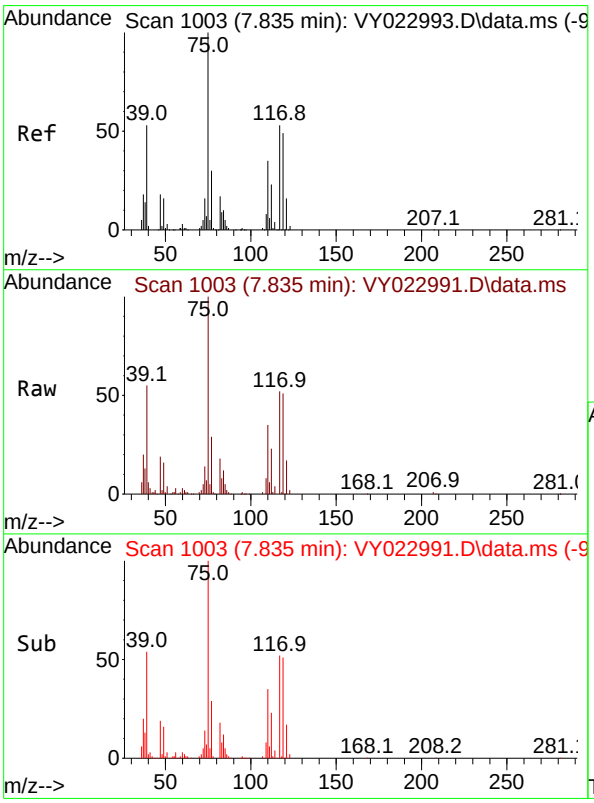
Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.2	124.8
192	19.5	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

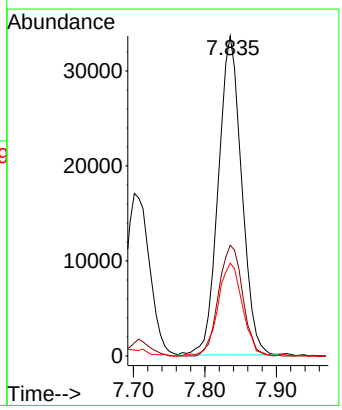
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

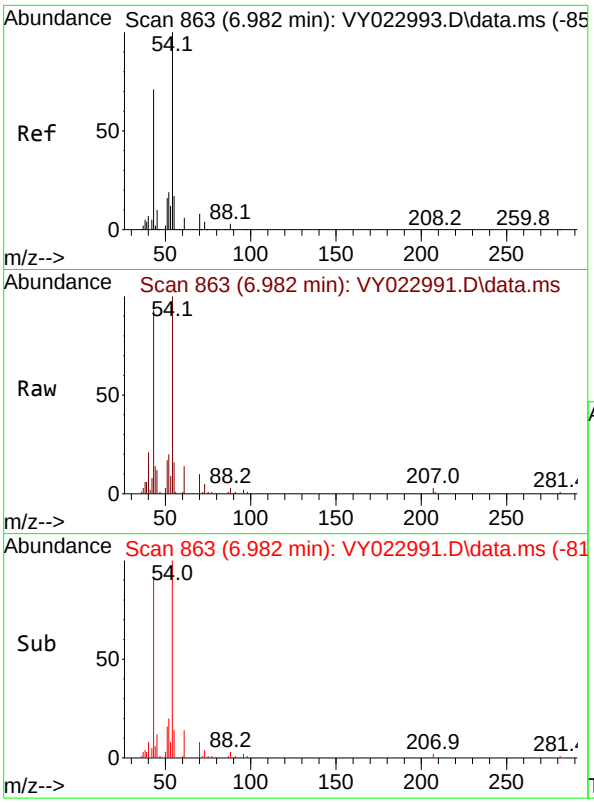


#36
1,1-Dichloropropene
Concen: 9.585 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 76035

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.3	51.9
77	30.7	24.6	37.0

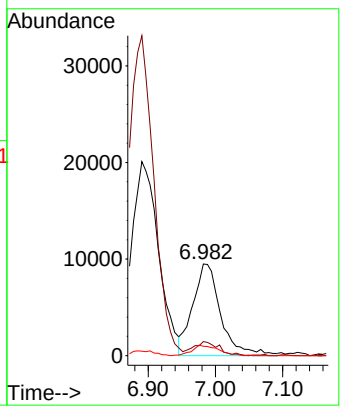




#37
Ethyl Acetate
Concen: 9.331 ug/l m
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 2749

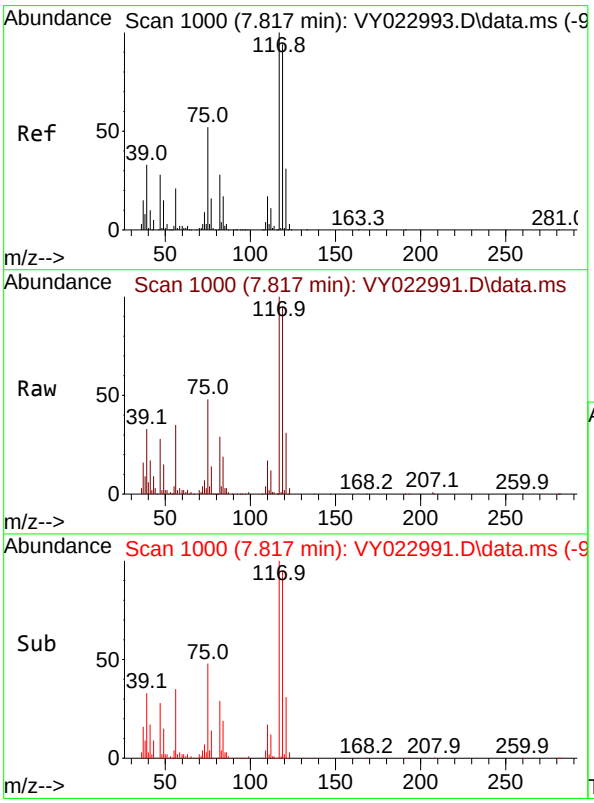
Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.6	17.4
70	10.8	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

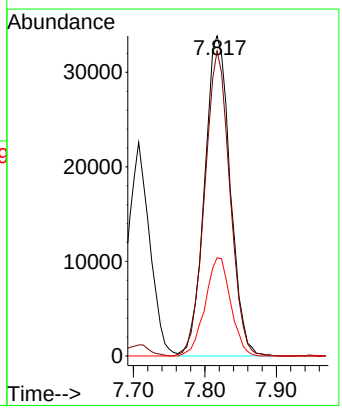
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

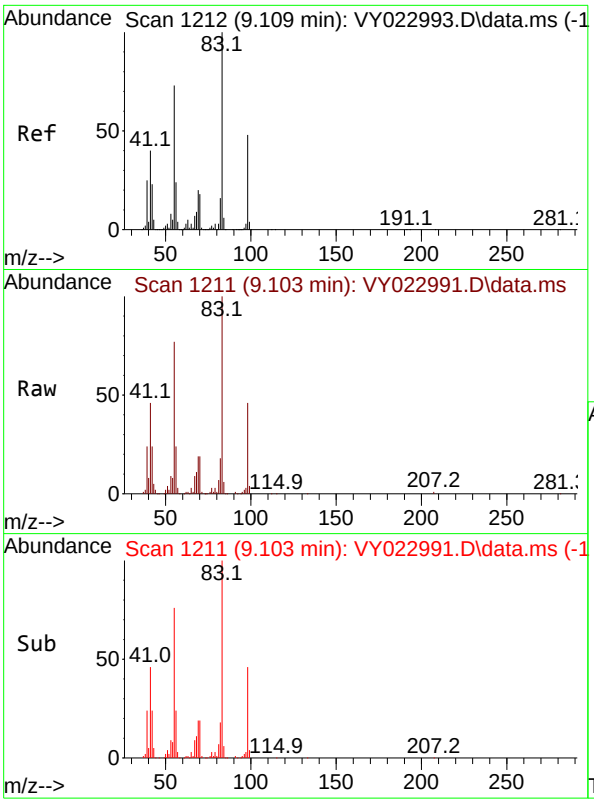


#38
Carbon Tetrachloride
Concen: 9.764 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:117 Resp: 84148

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.9	112.3
121	30.7	24.6	37.0

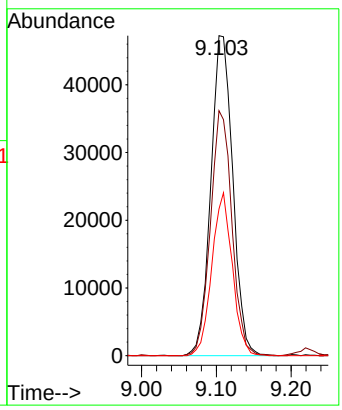




#39
Methylcyclohexane
Concen: 9.412 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 83 Resp: 9664

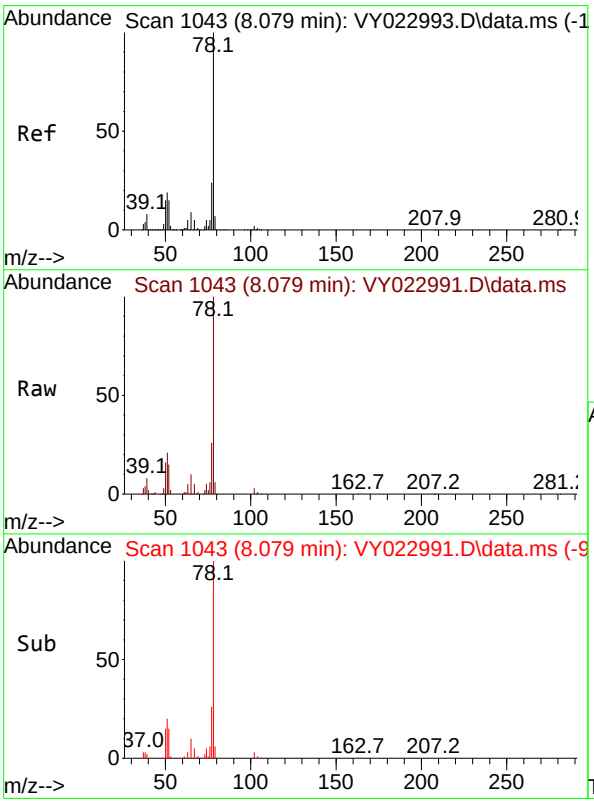
Ion	Ratio	Lower	Upper
83	100		
55	76.6	58.1	87.1
98	45.9	38.5	57.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

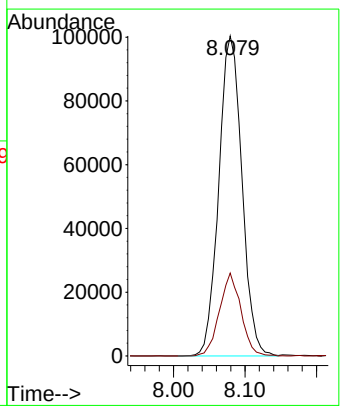
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

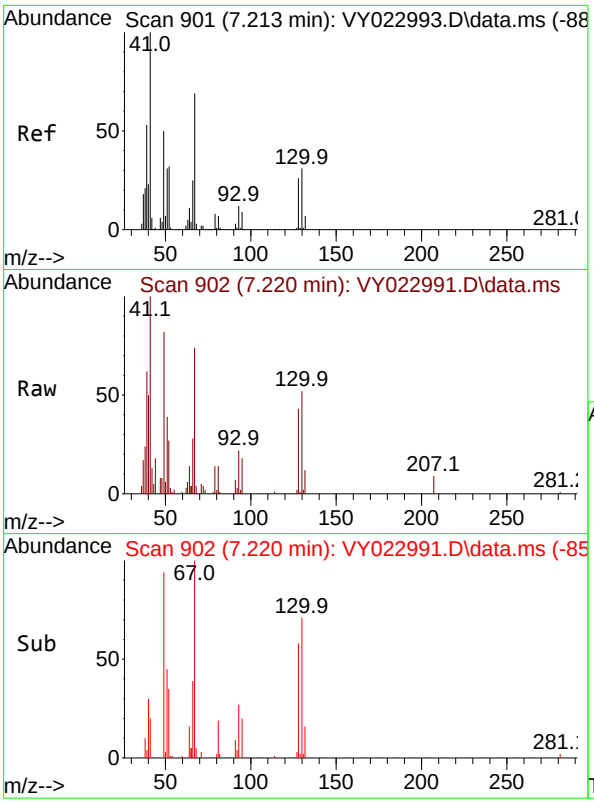


#40
Benzene
Concen: 9.450 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 78 Resp: 225702

Ion	Ratio	Lower	Upper
78	100		
77	25.9	19.0	28.4

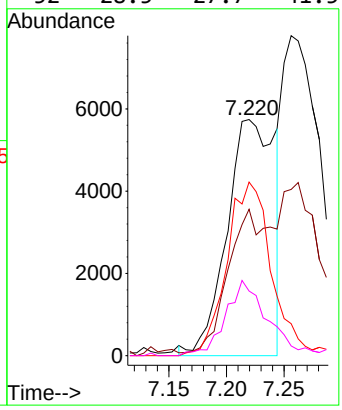




#41
Methacrylonitrile
Concen: 10.680 ug/l m
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 41 Resp: 1660(

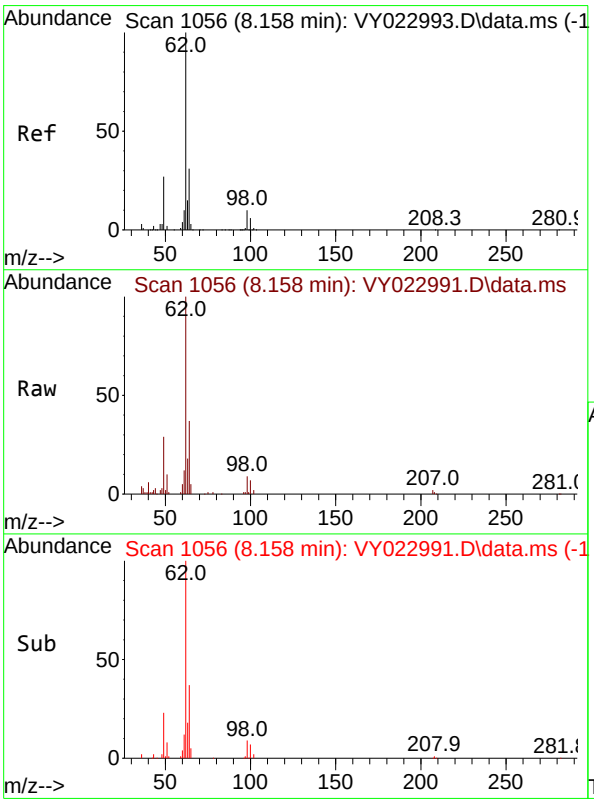
Ion	Ratio	Lower	Upper
41	100		
39	43.2	50.0	75.0#
67	69.0	65.4	98.2
52	28.5	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

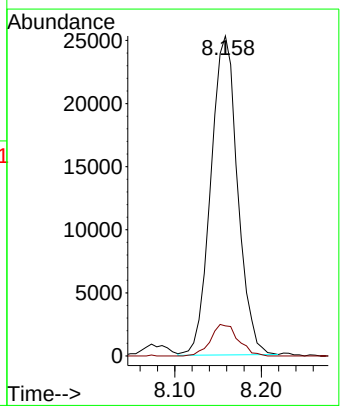
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

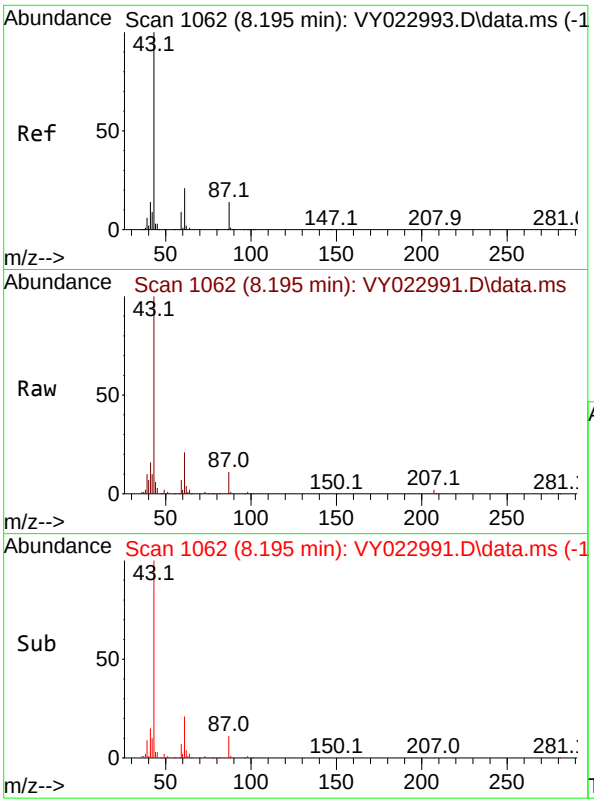


#42
1,2-Dichloroethane
Concen: 9.130 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 62 Resp: 54251

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.0





#43
Isopropyl Acetate
Concen: 8.525 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

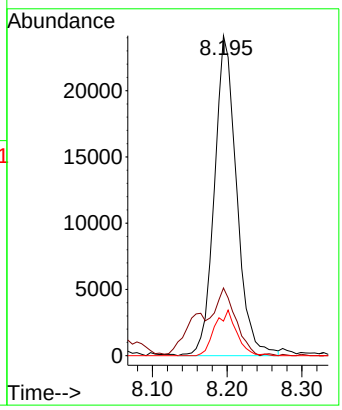
Tgt Ion: 43 Resp: 4989

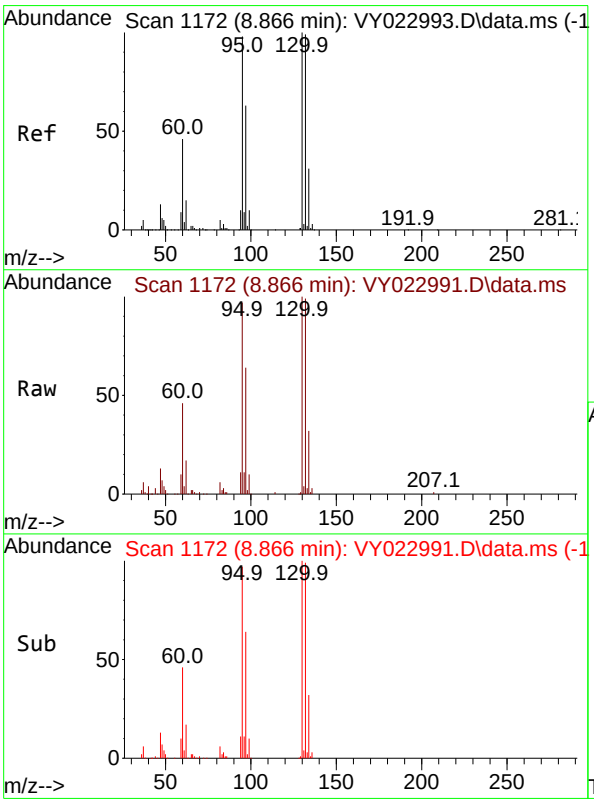
Ion	Ratio	Lower	Upper
43	100		
61	19.1	25.0	37.4
87	14.0	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

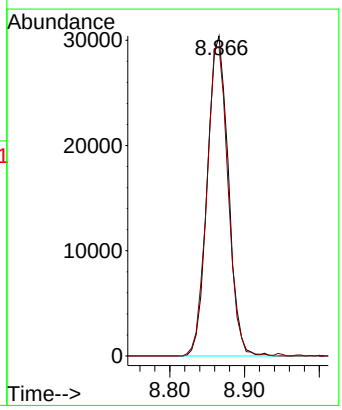


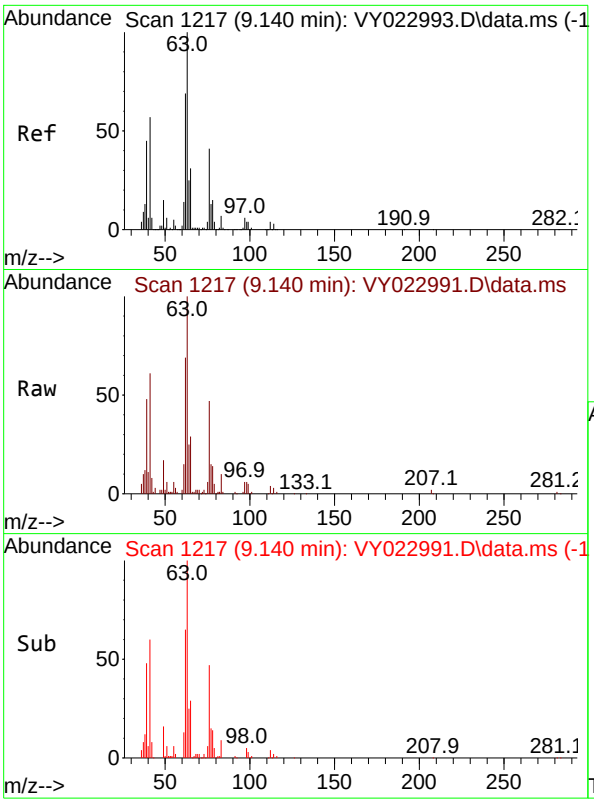


#44
Trichloroethene
Concen: 9.672 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:130 Resp: 59337

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	195.8

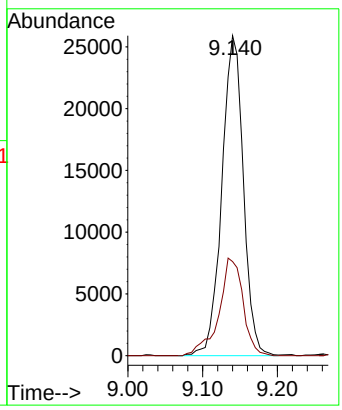




#45
1,2-Dichloropropane
Concen: 9.300 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 63 Resp: 5187

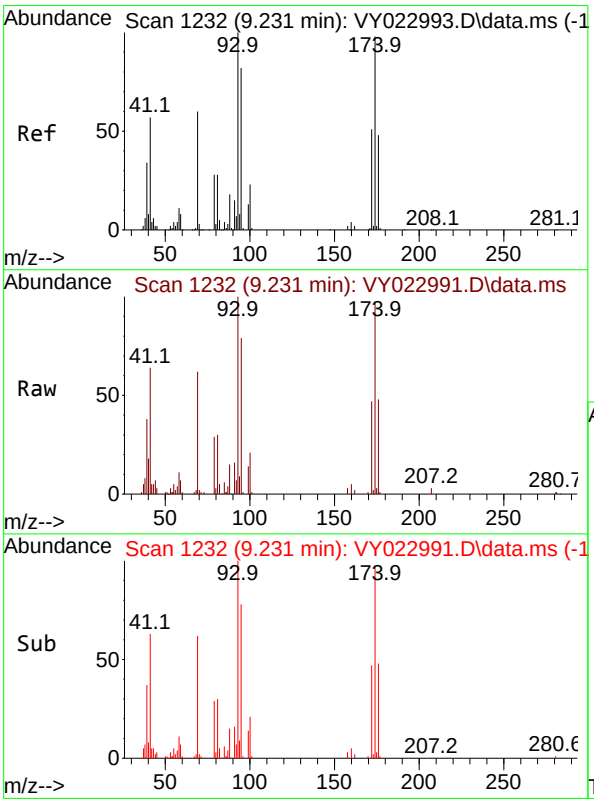
Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

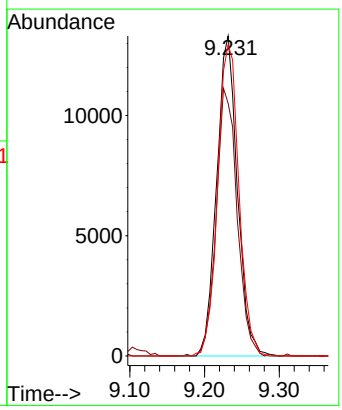
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

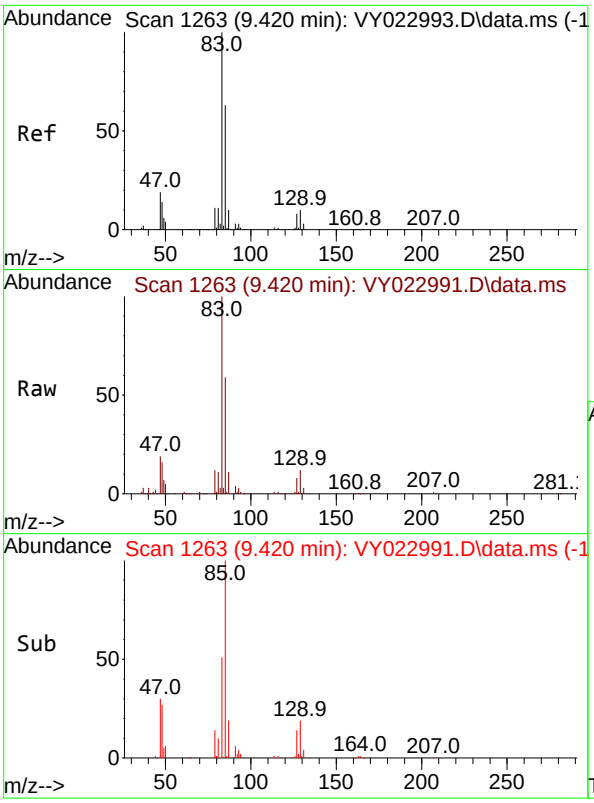


#46
Dibromomethane
Concen: 8.900 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 93 Resp: 25659

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.9	98.9
174	99.6	76.4	114.6





#47
Bromodichloromethane
Concen: 9.219 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

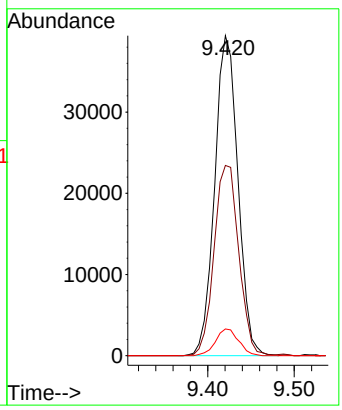
Tgt Ion: 83 Resp: 7346

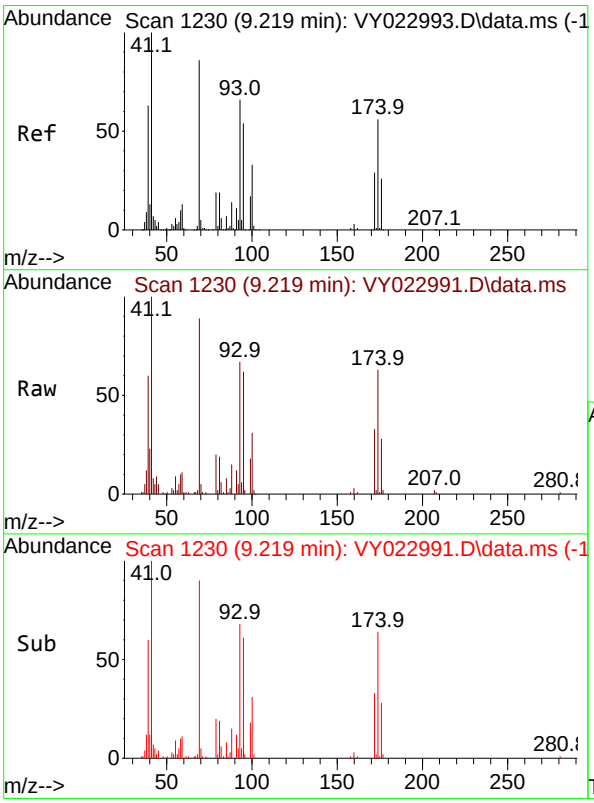
Ion	Ratio	Lower	Upper
83	100		
85	59.5	50.6	75.8
127	8.4	6.5	9.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

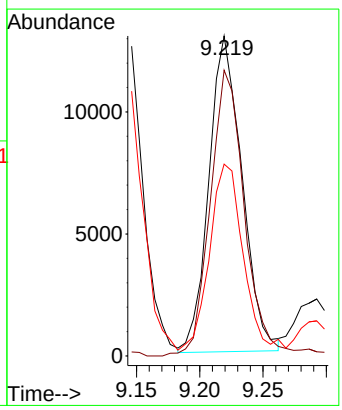


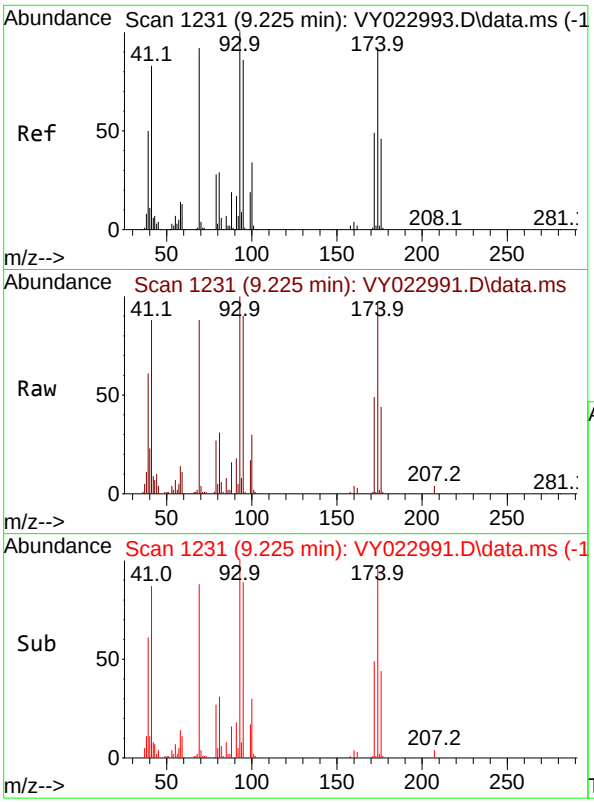


#48
Methyl methacrylate
Concen: 8.347 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 41 Resp: 23583

Ion	Ratio	Lower	Upper
41	100		
69	94.1	71.4	107.0
39	60.0	47.8	71.8





#49
1,4-Dioxane
Concen: 169.729 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

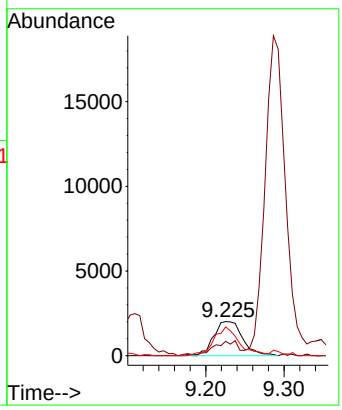
Tgt Ion: 88 Resp: 515

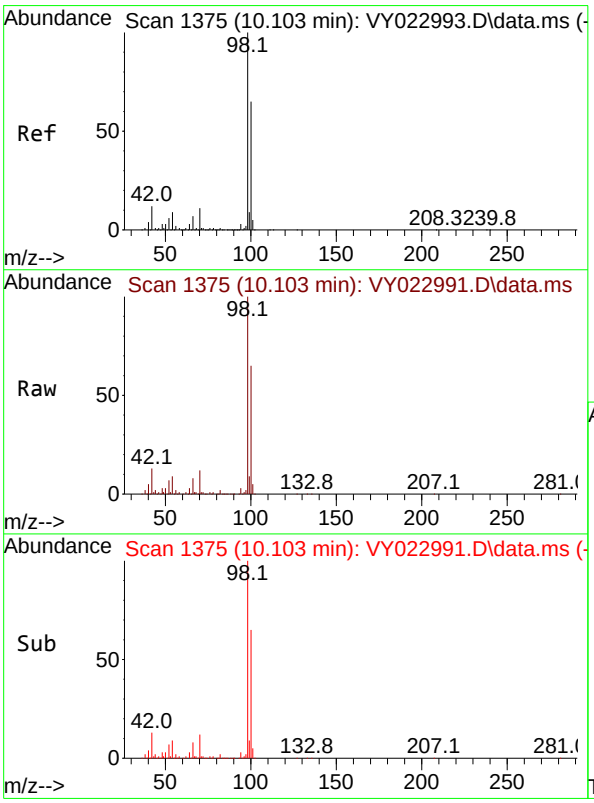
Ion	Ratio	Lower	Upper
88	100		
43	31.2	28.7	43.1
58	73.8	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

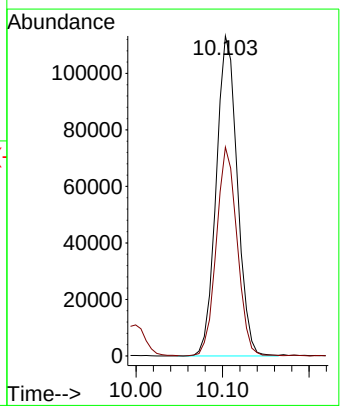


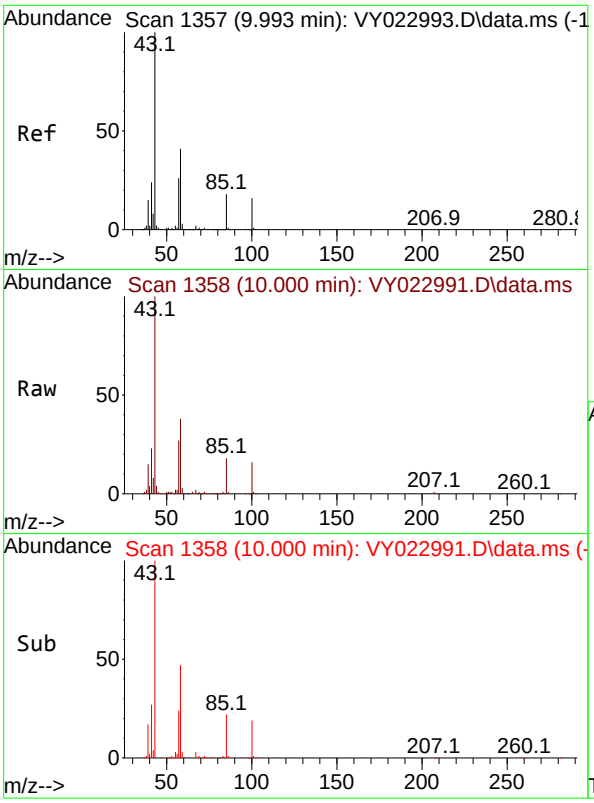


#50
Toluene-d8
Concen: 9.583 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 98 Resp: 191385

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 41.528 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

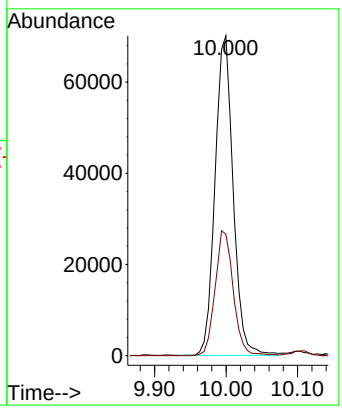
Tgt Ion: 43 Resp: 12335

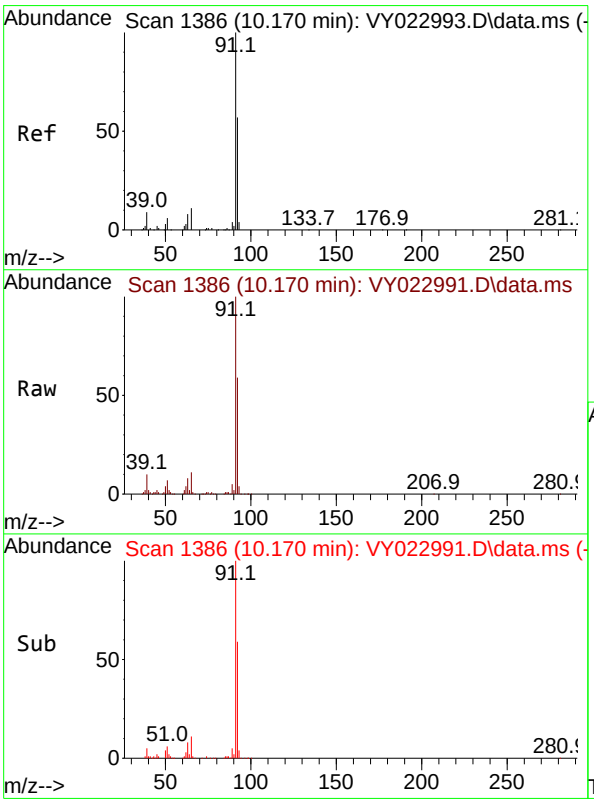
Ion	Ratio	Lower	Upper
43	100		
58	39.3	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

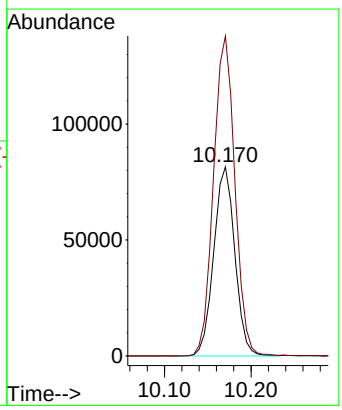


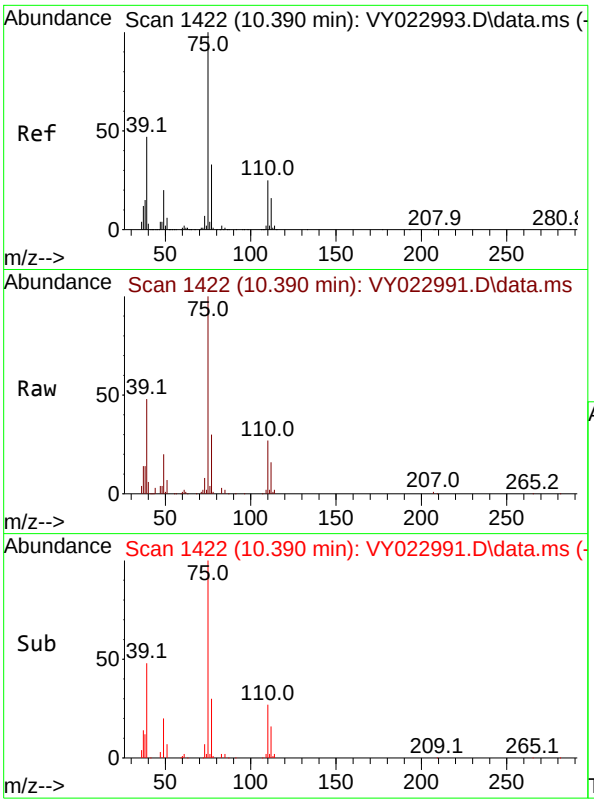


#52
Toluene
Concen: 9.279 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 92 Resp: 137786

Ion	Ratio	Lower	Upper
92	100		
91	171.7	137.8	206.6

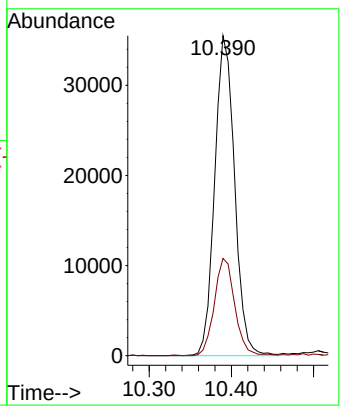




#53
t-1,3-Dichloropropene
Concen: 8.734 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 5974

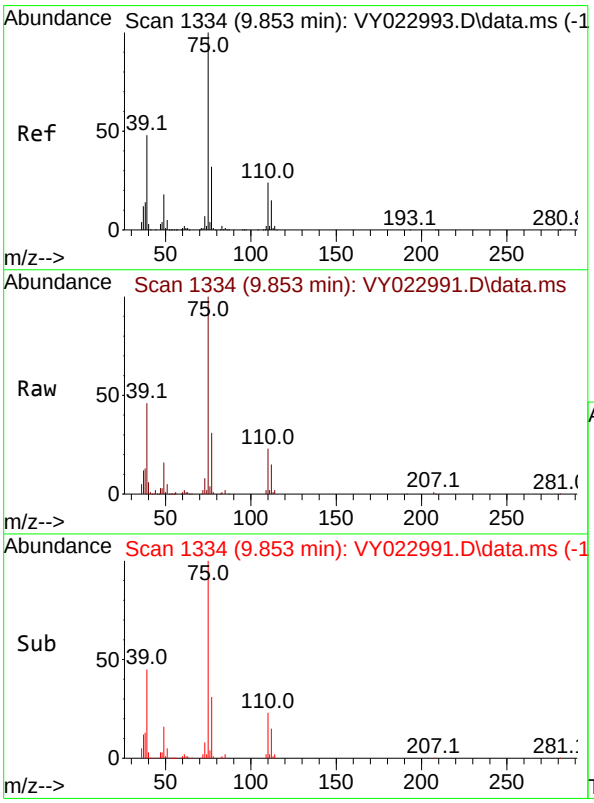
Ion	Ratio	Lower	Upper
75	100		
77	30.2	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

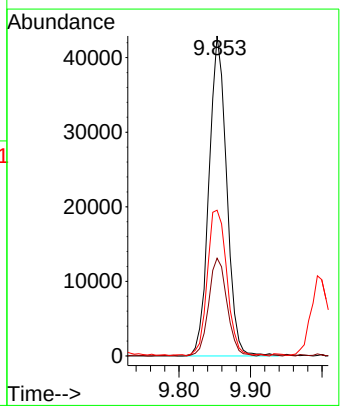
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

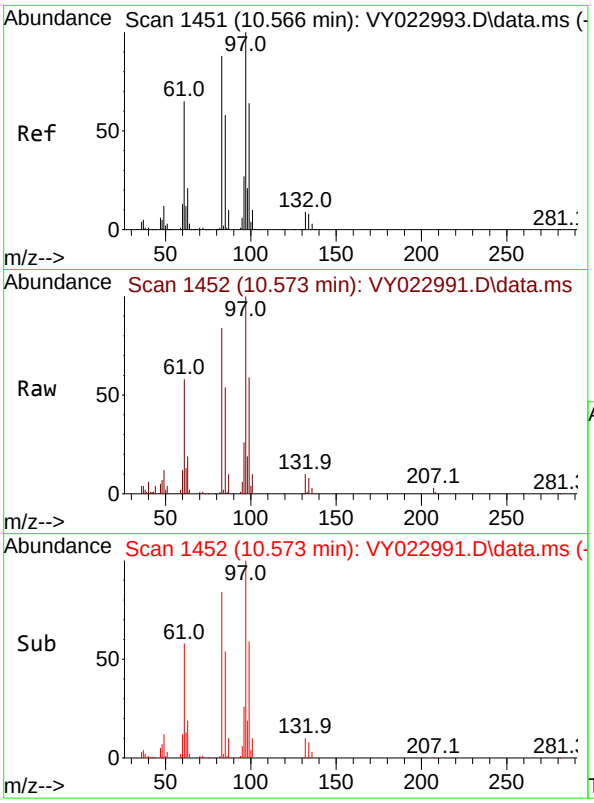


#54
cis-1,3-Dichloropropene
Concen: 8.935 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 73674

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.4	38.0
39	45.2	38.2	57.2

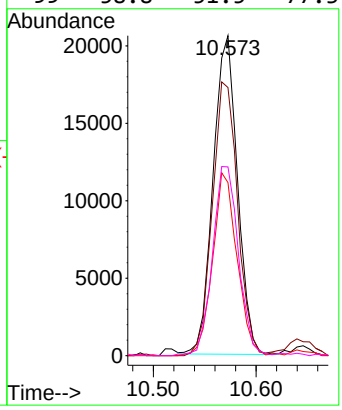




#55
1,1,2-Trichloroethane
Concen: 8.933 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 97 Resp: 3384

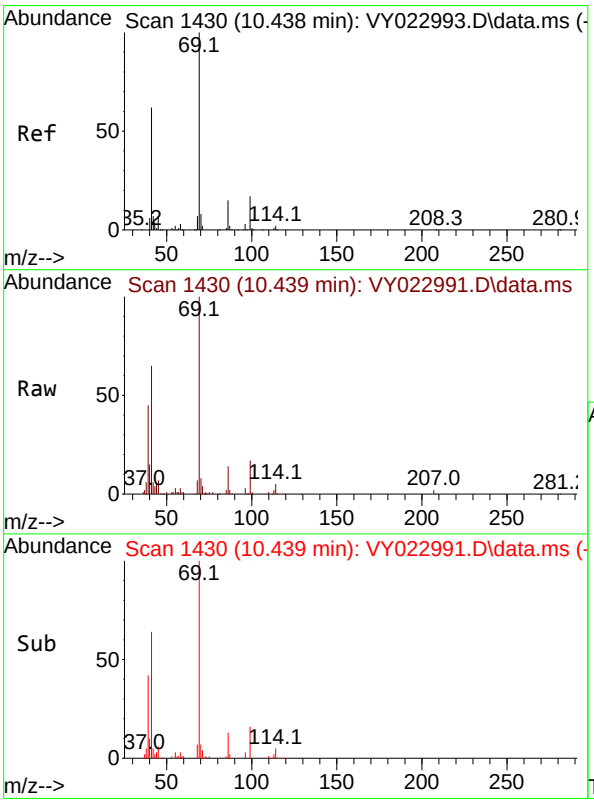
Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.2	105.2
85	54.4	46.2	69.2
99	58.8	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

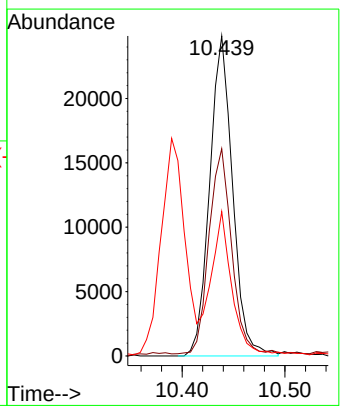
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

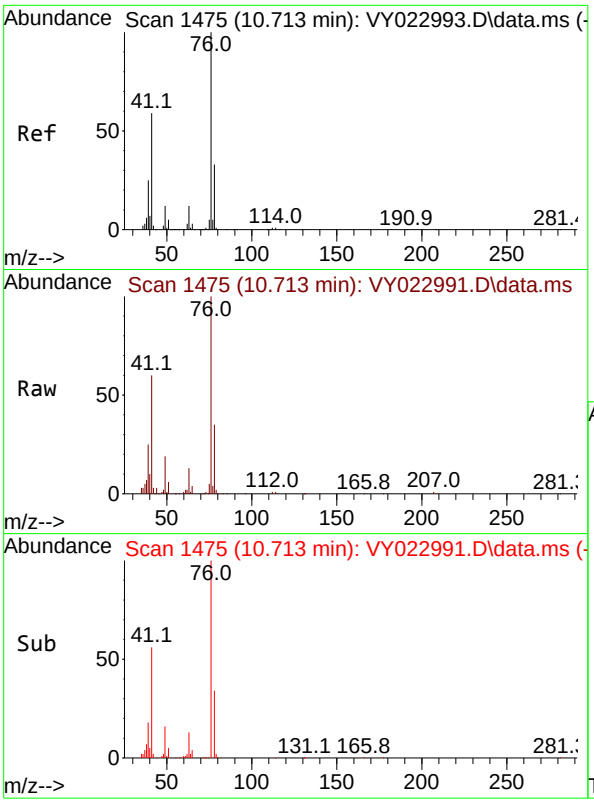


#56
Ethyl methacrylate
Concen: 8.133 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 69 Resp: 38473

Ion	Ratio	Lower	Upper
69	100		
41	62.7	51.0	76.4
39	41.5	30.6	46.0





#57
1,3-Dichloropropane
Concen: 8.876 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

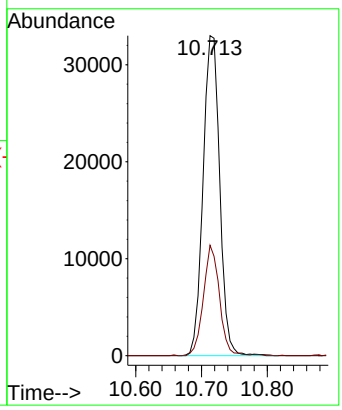
Tgt Ion: 76 Resp: 5810

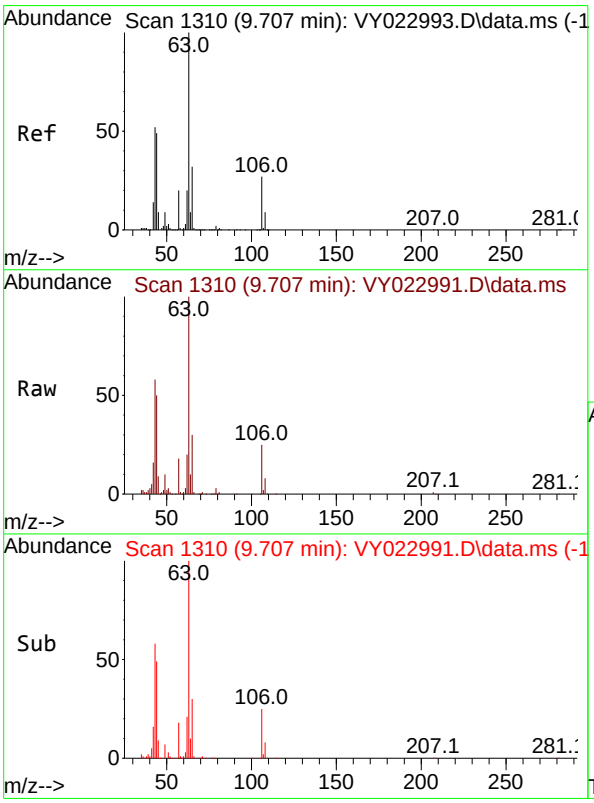
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

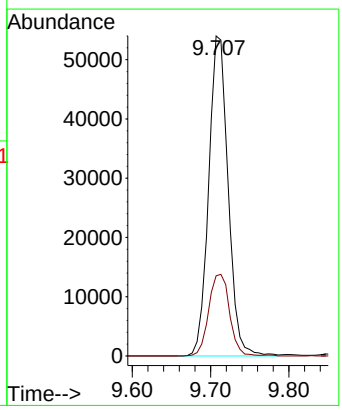


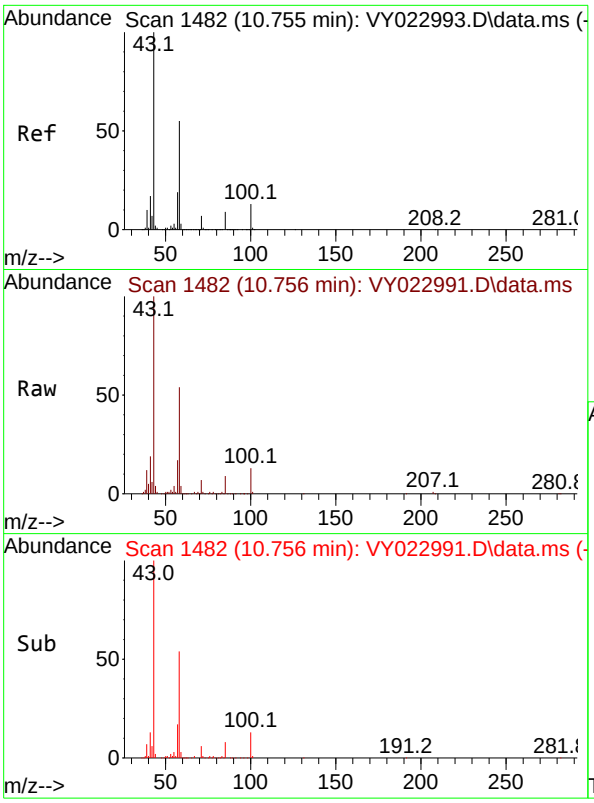


#58
2-Chloroethyl Vinyl ether
Concen: 40.157 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 63 Resp: 92984

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.6	33.8





#59
2-Hexanone
Concen: 40.492 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

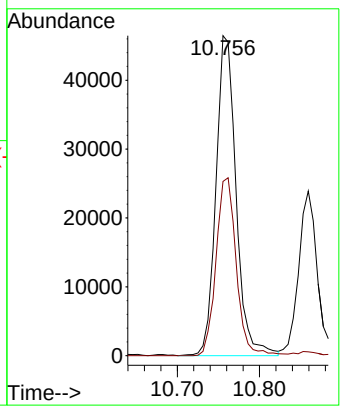
Tgt Ion: 43 Resp: 7905

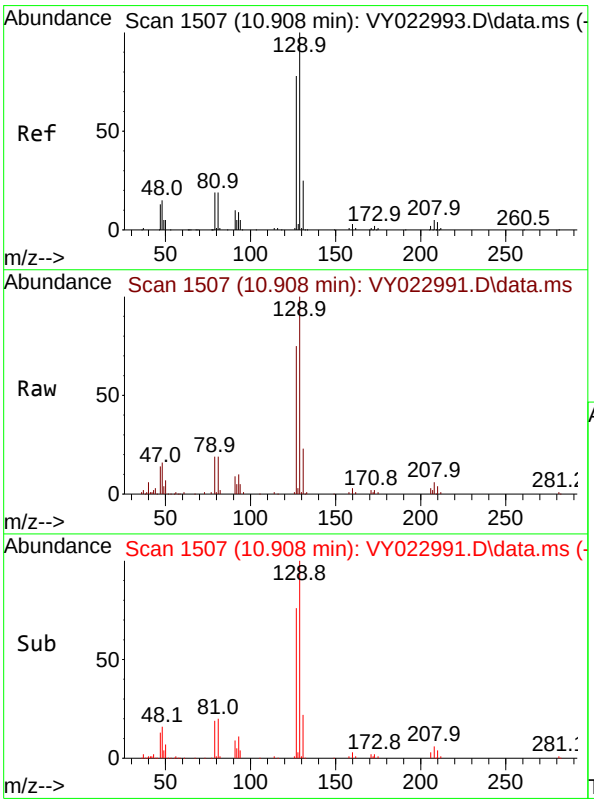
Ion	Ratio	Lower	Upper
43	100		
58	56.0	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

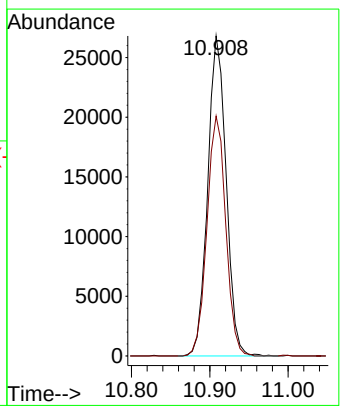


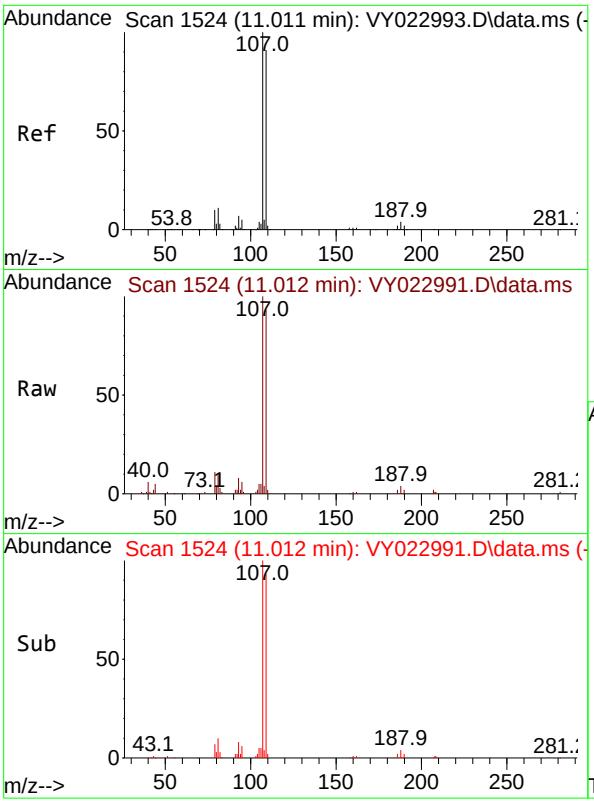


#60
Dibromochloromethane
Concen: 8.809 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:129 Resp: 43711

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.7	116.1





#61
1,2-Dibromoethane
Concen: 8.903 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

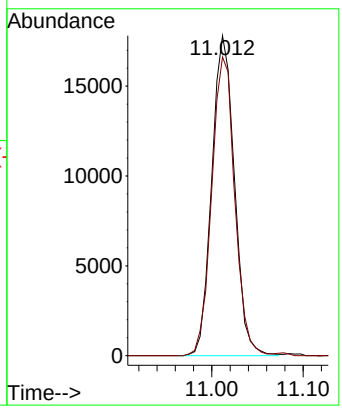
Tgt Ion:107 Resp: 3063

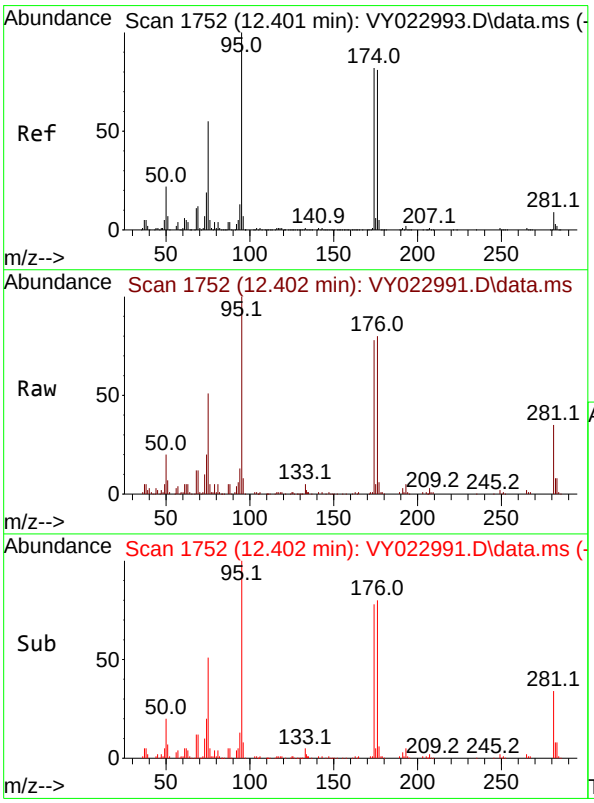
Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.1	112.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

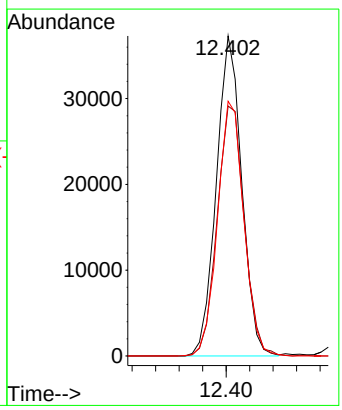


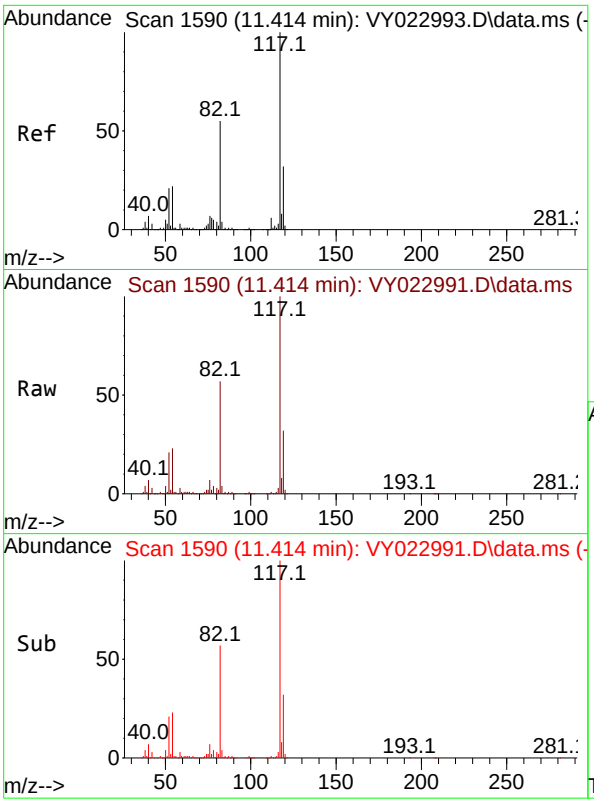


#62
4-Bromofluorobenzene
Concen: 8.915 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 95 Resp: 56048

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	170.8
176	82.1	0.0	163.6

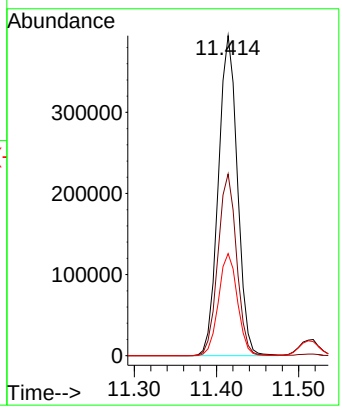




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:117 Resp: 63427

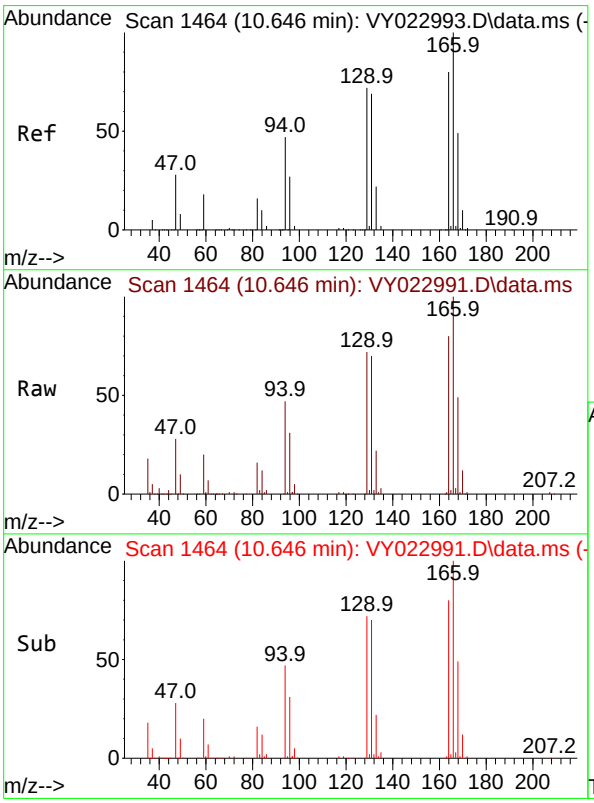
Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.3	66.5
119	31.9	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

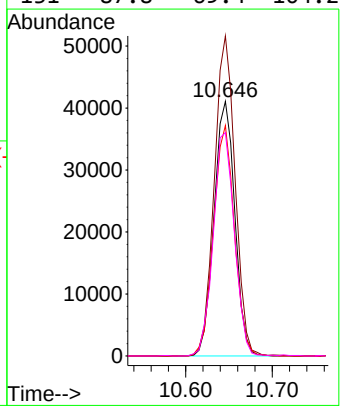
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

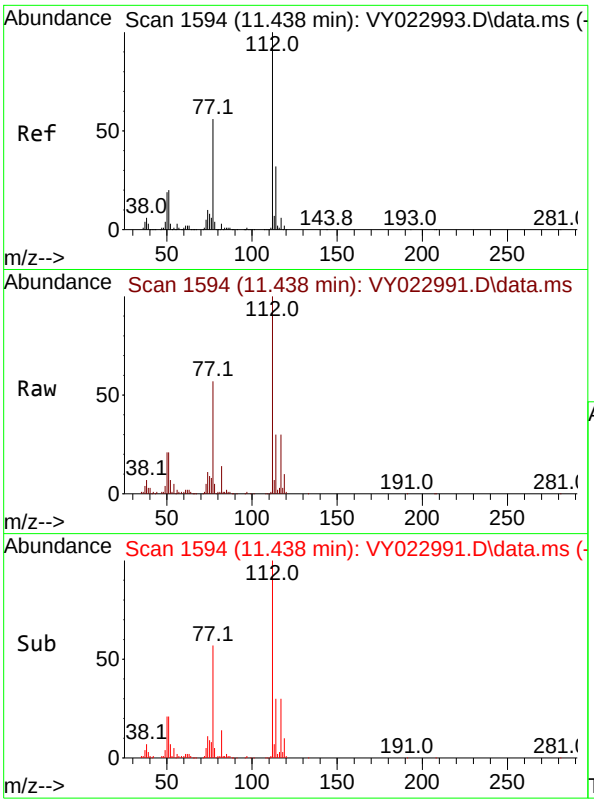


#64
Tetrachloroethene
Concen: 10.575 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:164 Resp: 68560

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.2	150.2
129	90.5	71.7	107.5
131	87.8	69.4	104.2

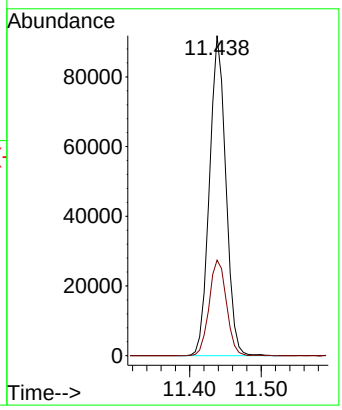




#65
Chlorobenzene
Concen: 9.755 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:112 Resp: 14600

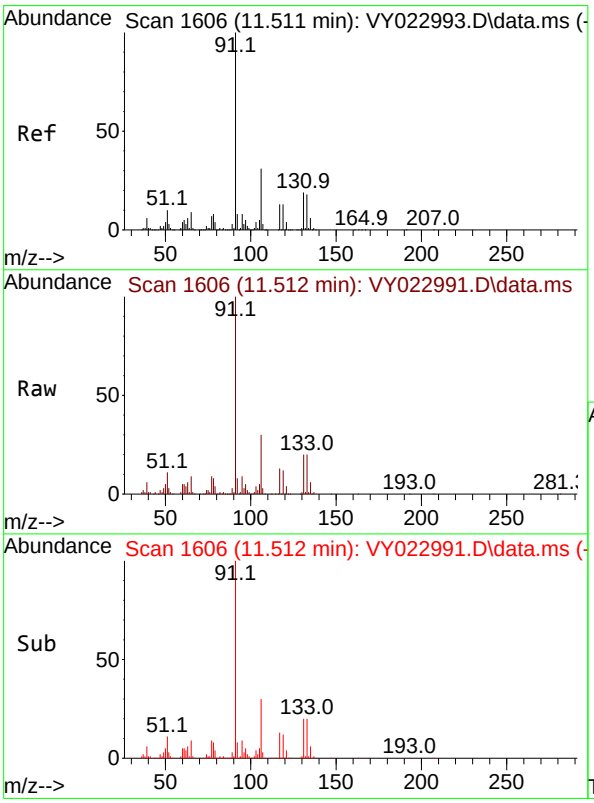
Ion	Ratio	Lower	Upper
112	100		
114	29.9	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

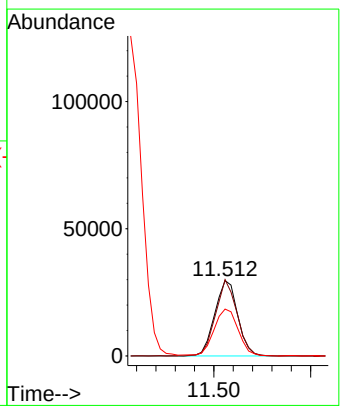
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

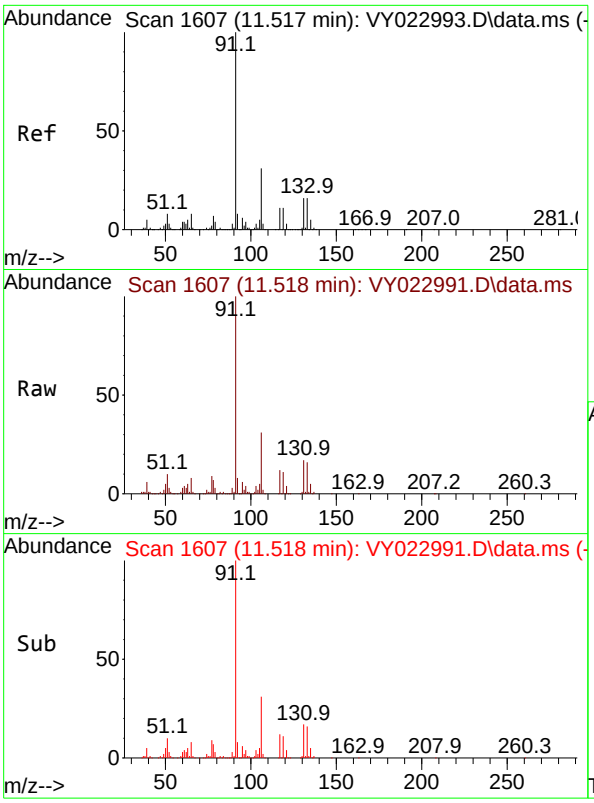


#66
1,1,1,2-Tetrachloroethane
Concen: 9.509 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:131 Resp: 48542

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.8	143.3
119	66.0	33.3	99.8

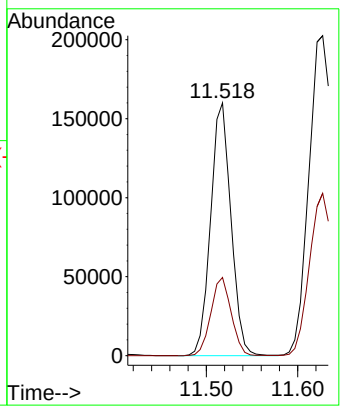




#67
Ethyl Benzene
Concen: 9.331 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 91 Resp: 24755

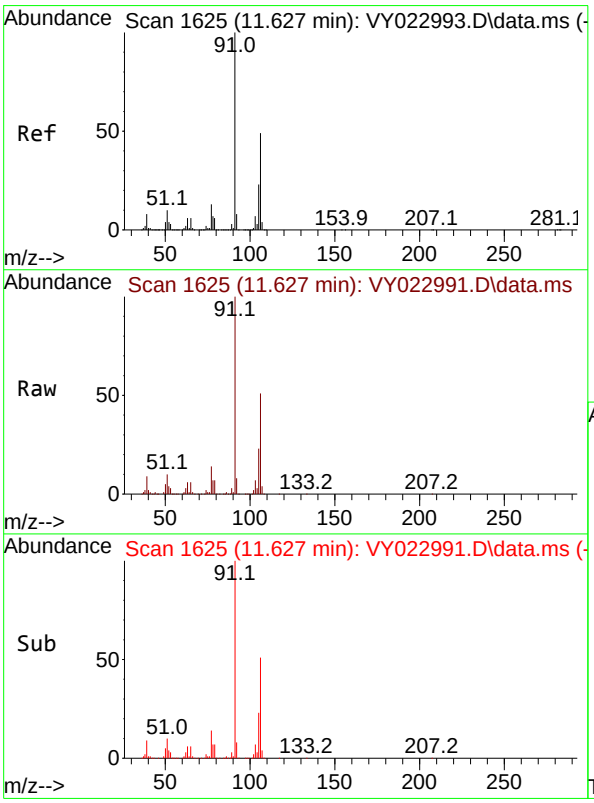
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

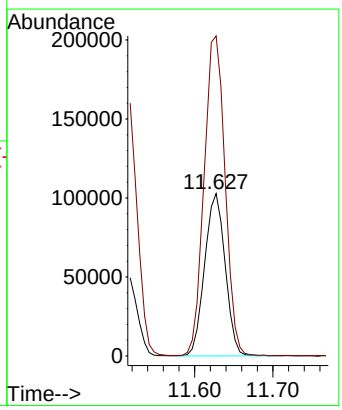
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

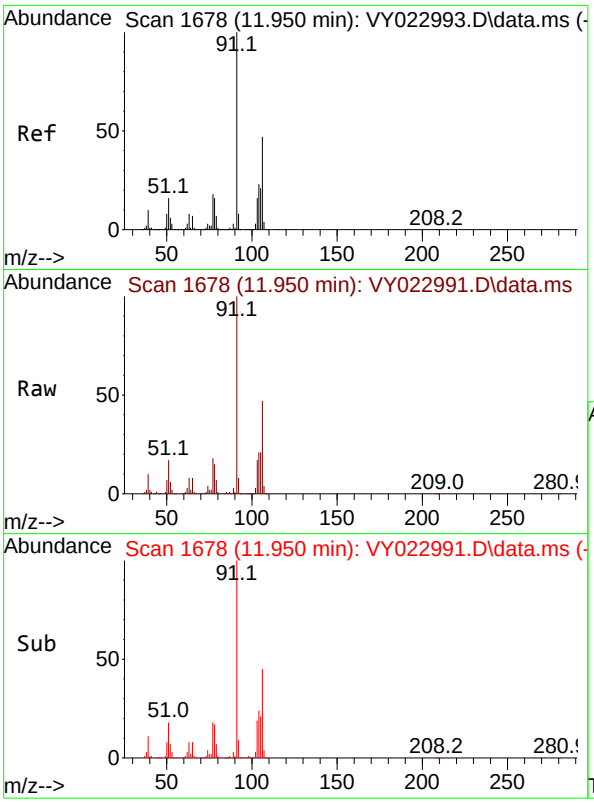


#68
m/p-Xylenes
Concen: 18.350 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:106 Resp: 186725

Ion	Ratio	Lower	Upper
106	100		
91	201.3	159.8	239.8

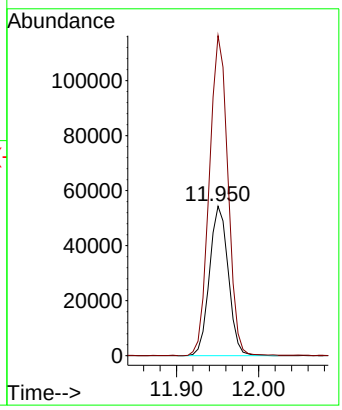




#69
o-Xylene
Concen: 9.127 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:106 Resp: 8619

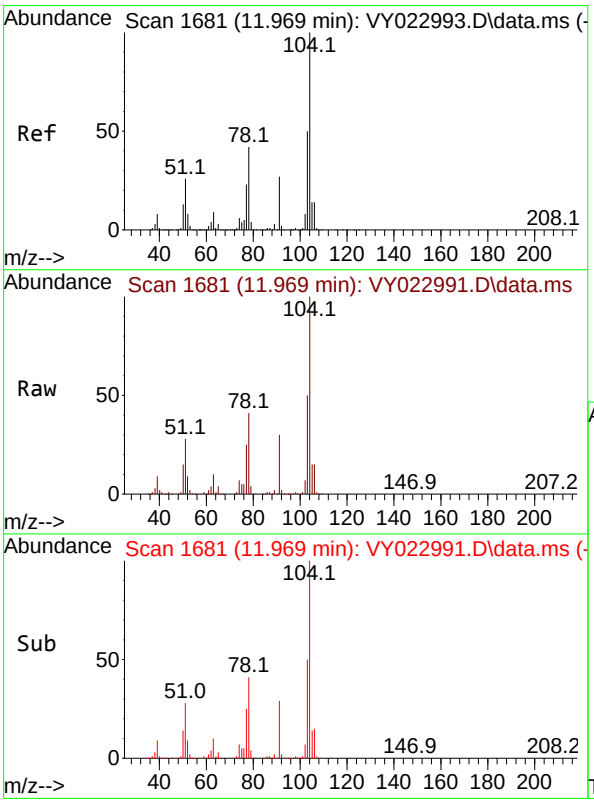
Ion	Ratio	Lower	Upper
106	100		
91	212.6	106.3	318.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

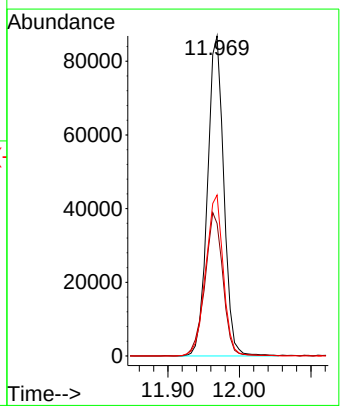
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

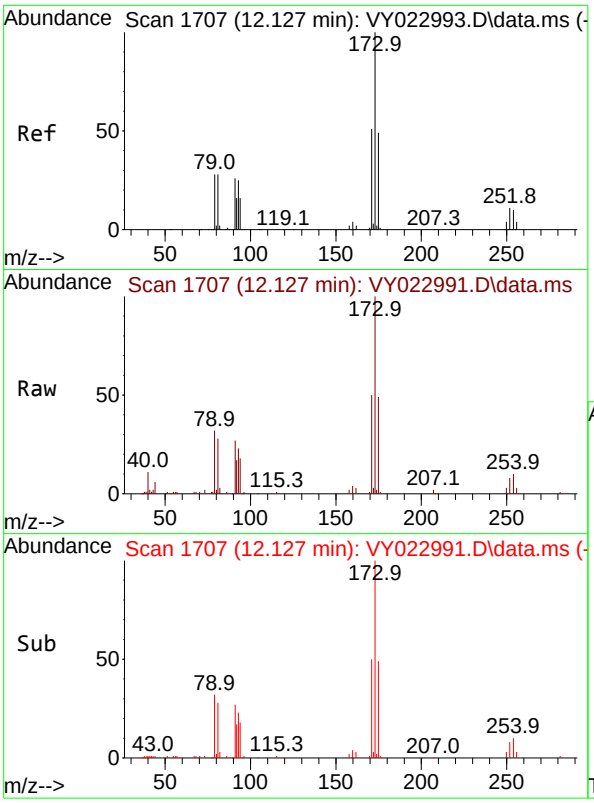


#70
Styrene
Concen: 8.898 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:104 Resp: 137633

Ion	Ratio	Lower	Upper
104	100		
78	49.5	39.0	58.6
103	54.4	43.7	65.5





#71
Bromoform
Concen: 8.949 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

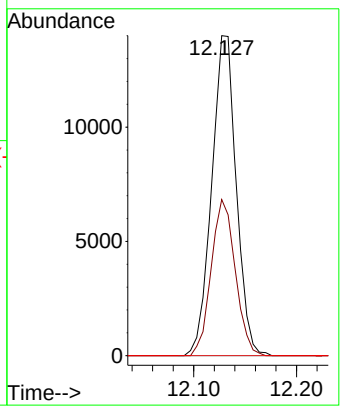
Tgt Ion:173 Resp: 2319

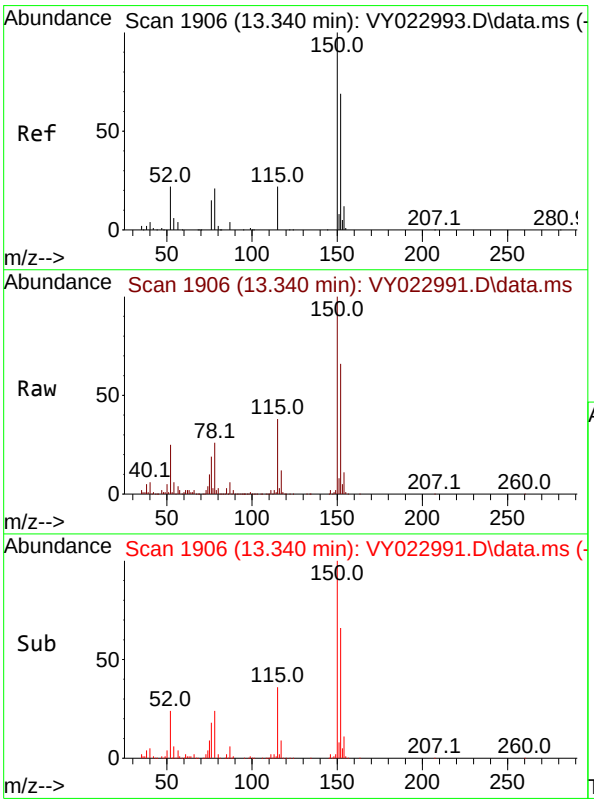
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.6	73.8
254	0.0	0.2	0.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

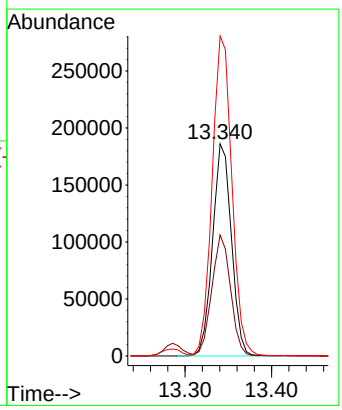


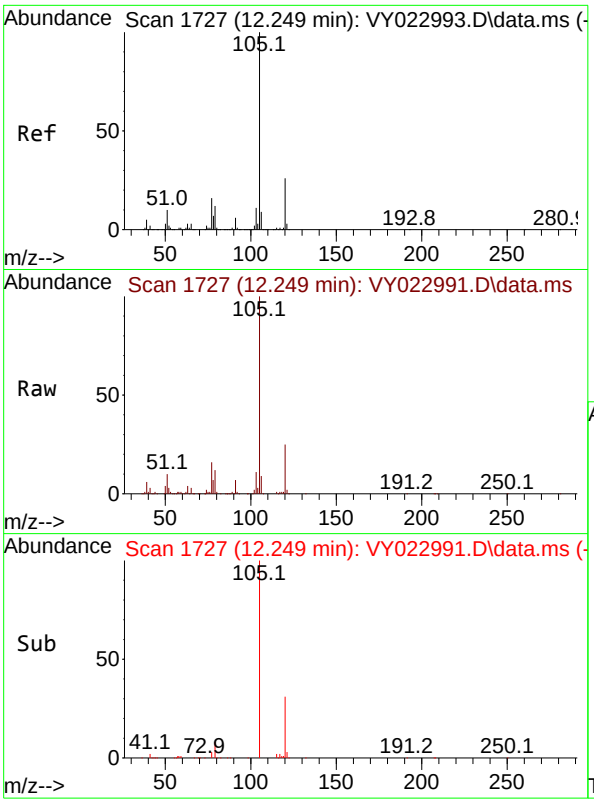


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:152 Resp: 281482

Ion	Ratio	Lower	Upper
152	100		
115	56.6	29.4	88.2
150	157.4	0.0	350.0

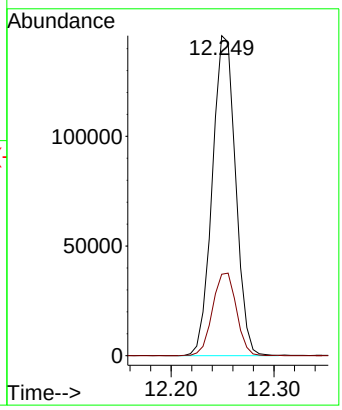




#73
Isopropylbenzene
Concen: 9.608 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:105 Resp: 22928

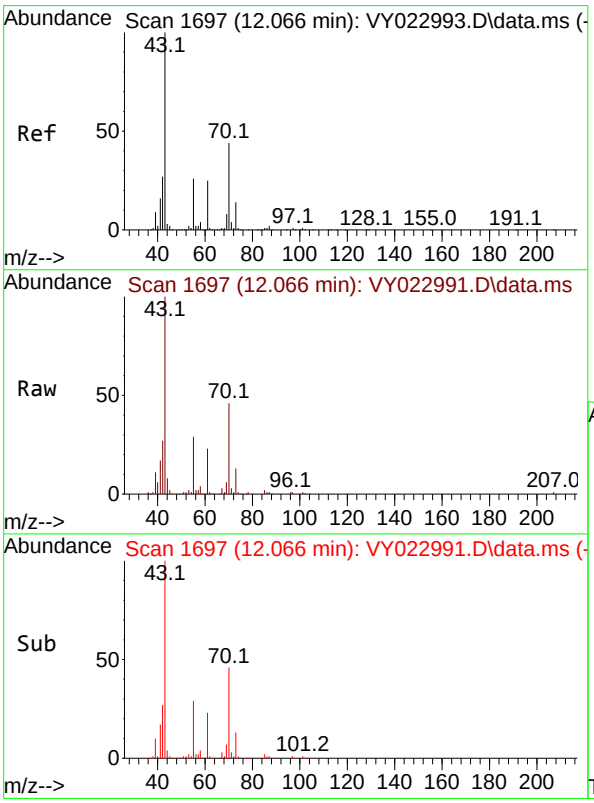
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

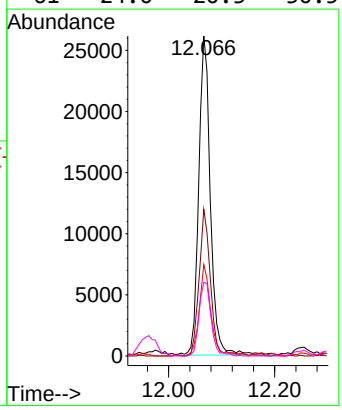
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

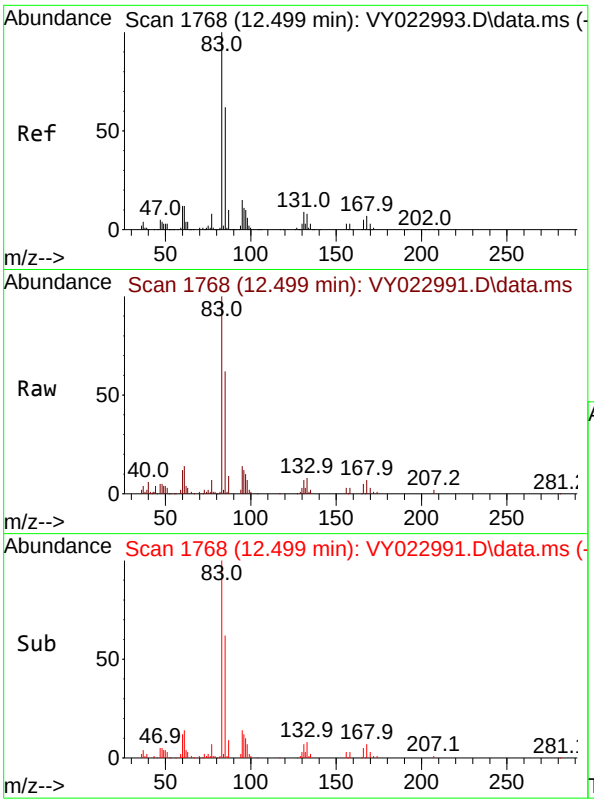


#74
N-amyl acetate
Concen: 8.873 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 39921

Ion	Ratio	Lower	Upper
43	100		
70	44.1	36.2	54.2
55	28.8	20.9	31.3
61	24.0	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 9.153 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

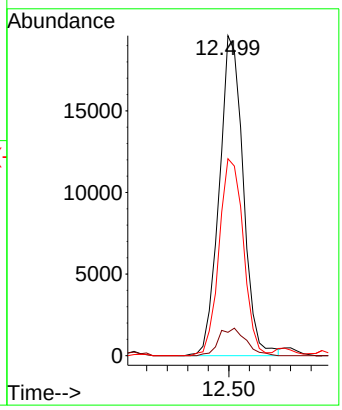
Tgt Ion: 83 Resp: 3161

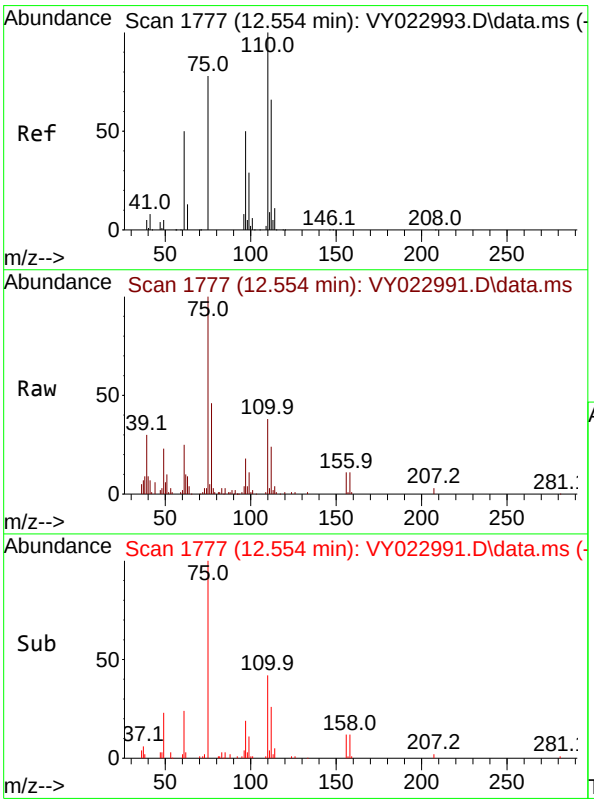
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	62.5	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

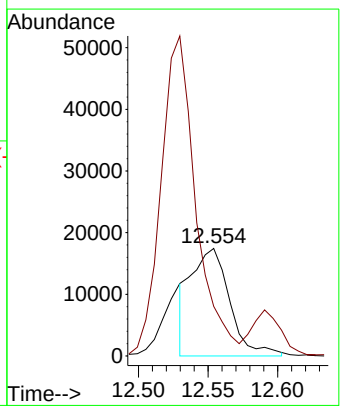


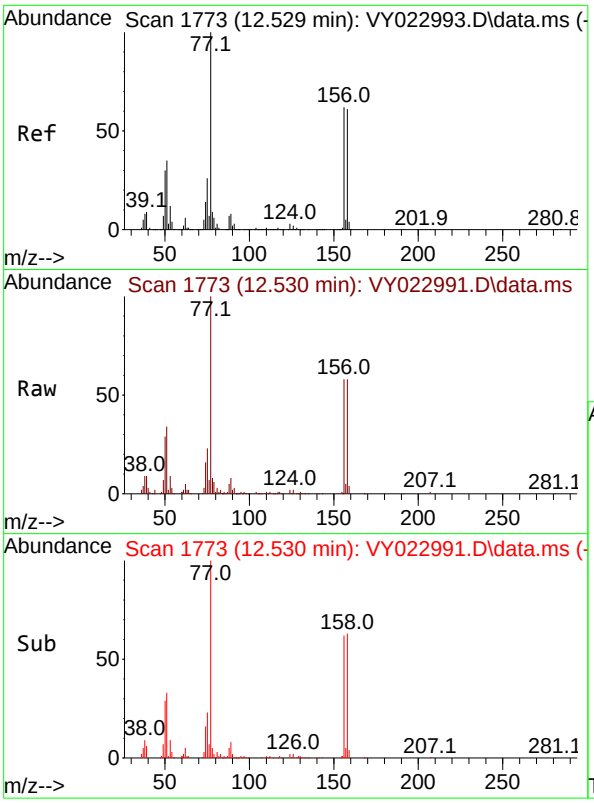


#76
1,2,3-Trichloropropane
Concen: 9.523 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 33738

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

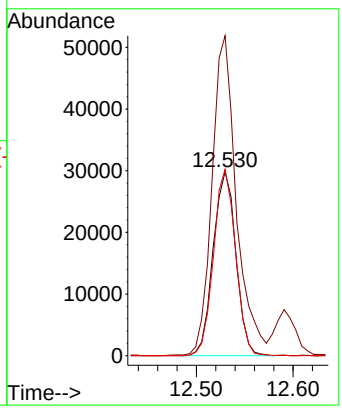




#77
Bromobenzene
Concen: 9.390 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:156 Resp: 4860

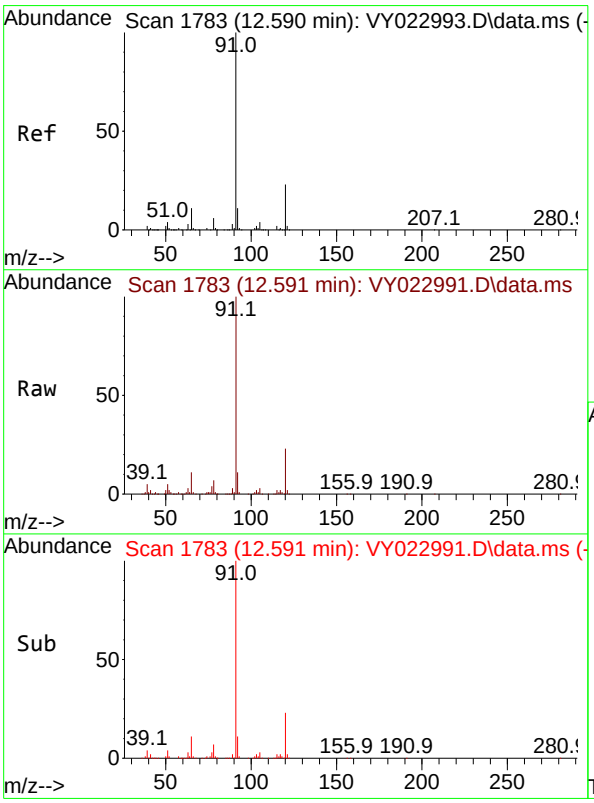
Ion	Ratio	Lower	Upper
156	100		
77	187.0	92.0	276.1
158	98.2	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

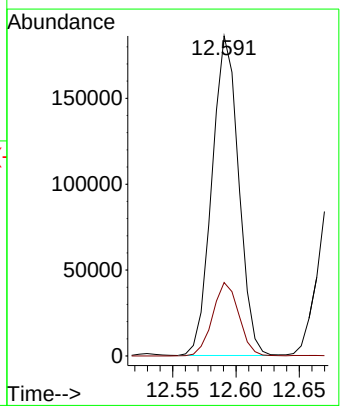
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

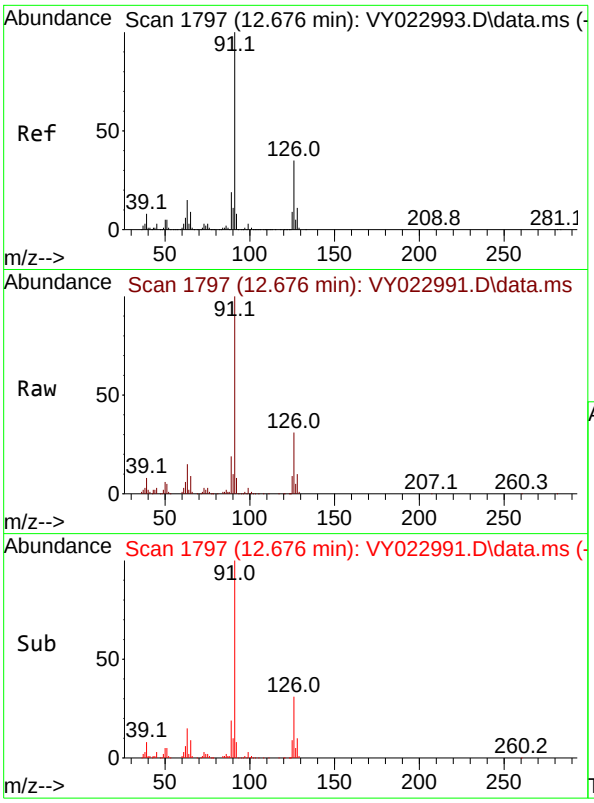


#78
n-propylbenzene
Concen: 9.618 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 91 Resp: 273348

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.8





#79
2-Chlorotoluene
Concen: 9.652 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

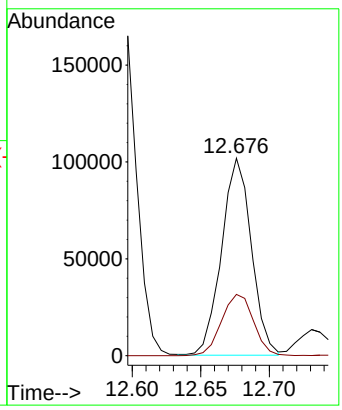
Tgt Ion: 91 Resp: 15426

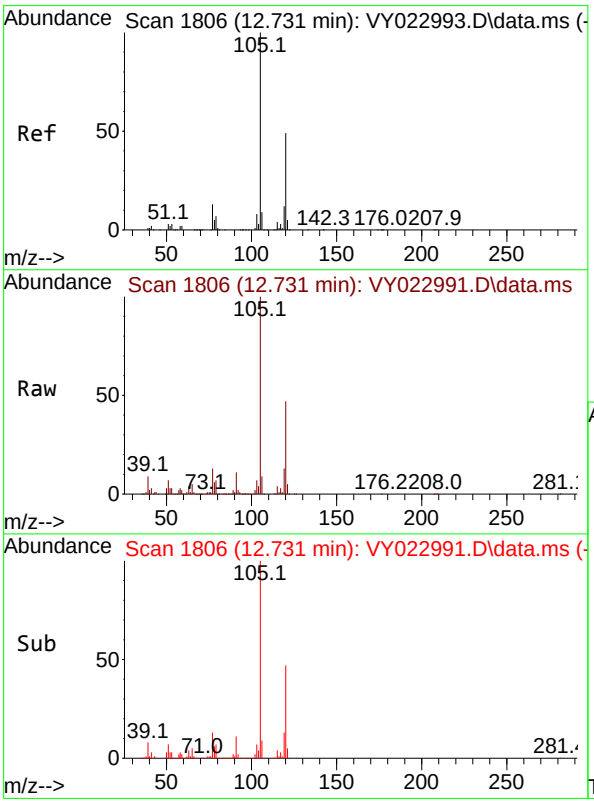
Ion	Ratio	Lower	Upper
91	100		
126	33.3	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

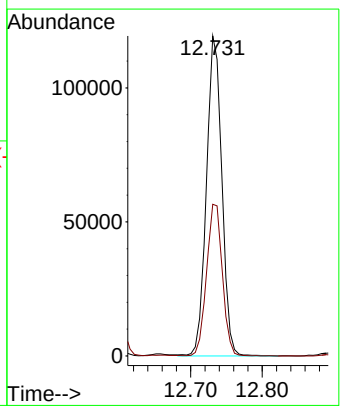


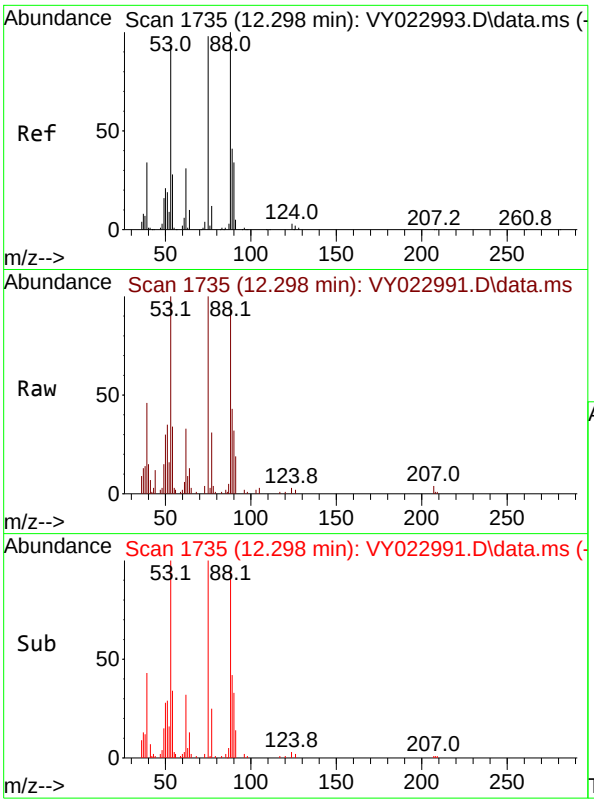


#80
1,3,5-Trimethylbenzene
Concen: 9.486 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:105 Resp: 178551

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.6	73.8





#81
trans-1,4-Dichloro-2-butene
Concen: 9.037 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

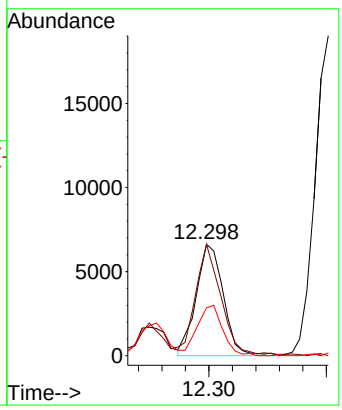
Tgt Ion: 75 Resp: 1064

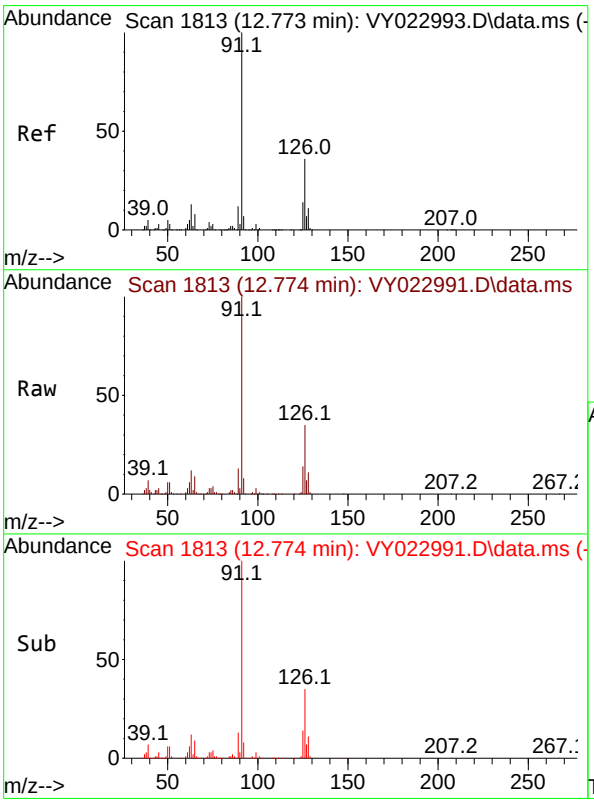
Ion	Ratio	Lower	Upper
75	100		
53	96.3	76.1	114.1
89	41.6	36.1	54.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

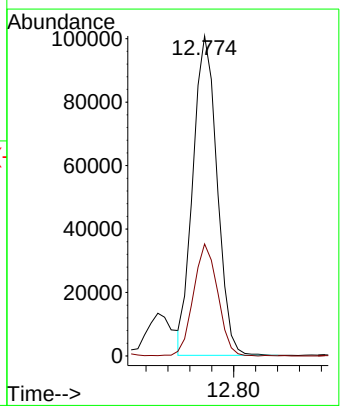


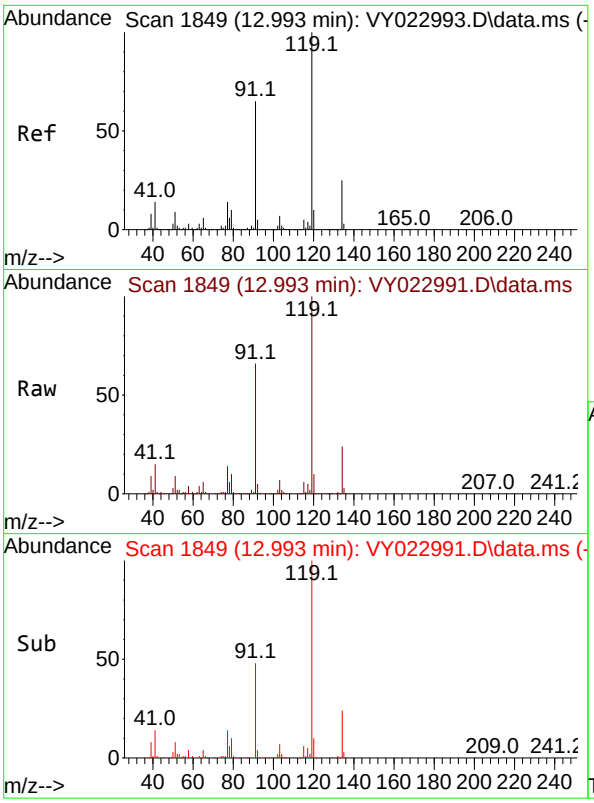


#82
4-Chlorotoluene
Concen: 9.561 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 91 Resp: 154131

Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.2	51.5

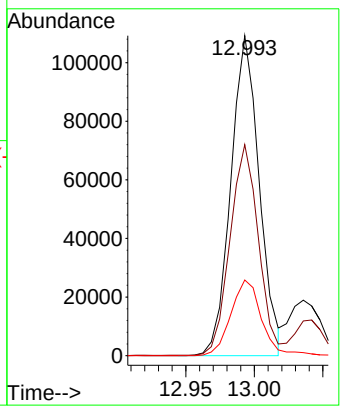




#83
tert-Butylbenzene
Concen: 9.277 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:119 Resp: 15773

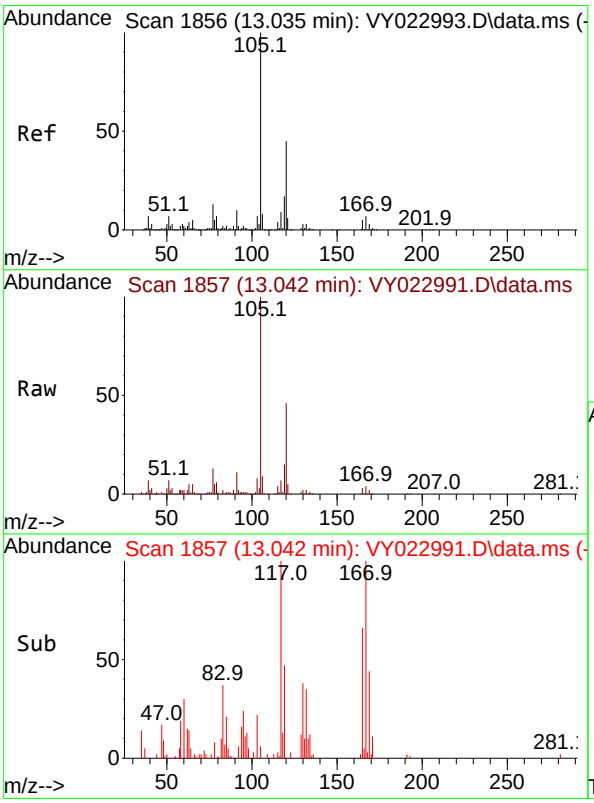
Ion	Ratio	Lower	Upper
119	100		
91	65.6	32.0	96.2
134	25.7	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

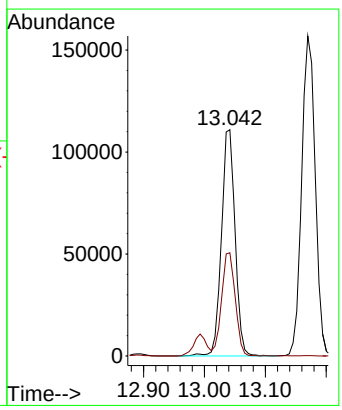
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

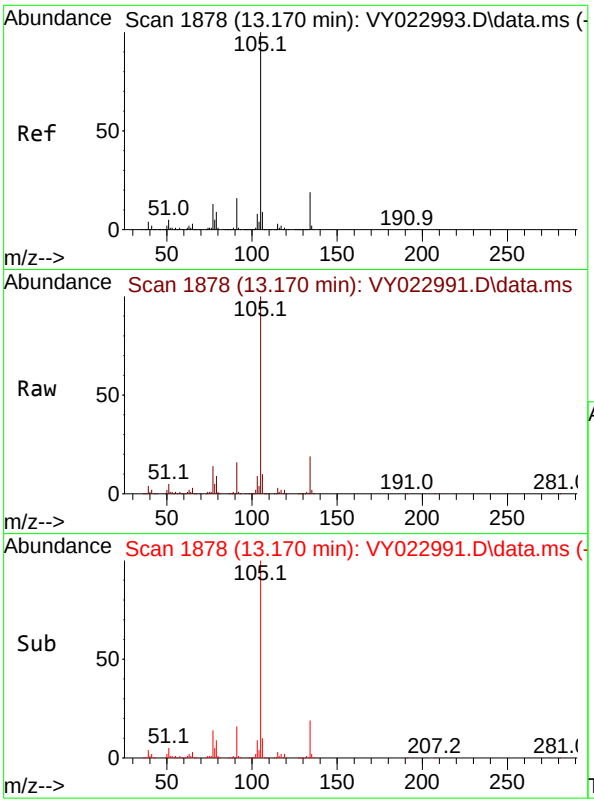


#84
1,2,4-Trimethylbenzene
Concen: 9.297 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:105 Resp: 172262

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.8

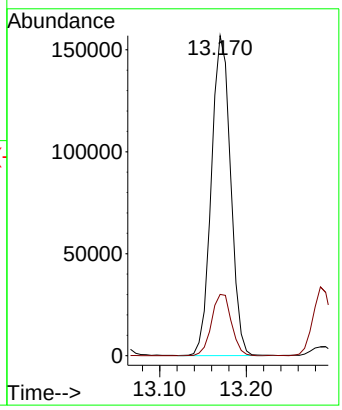




#85
sec-Butylbenzene
Concen: 9.504 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:105 Resp: 24214

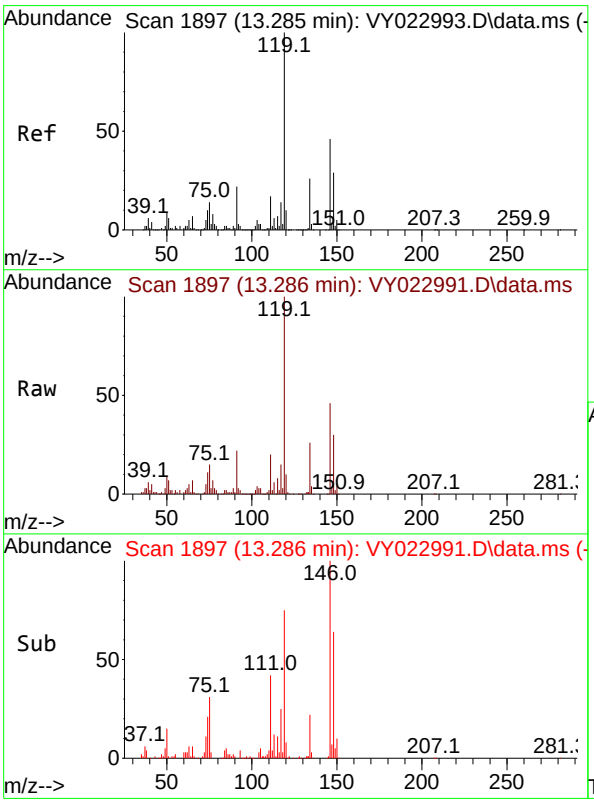
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

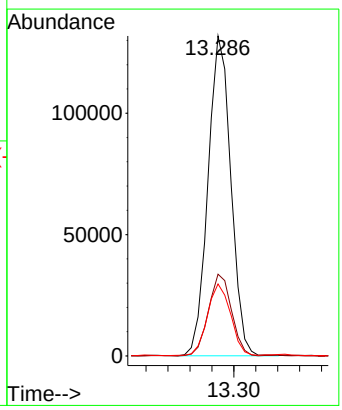
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

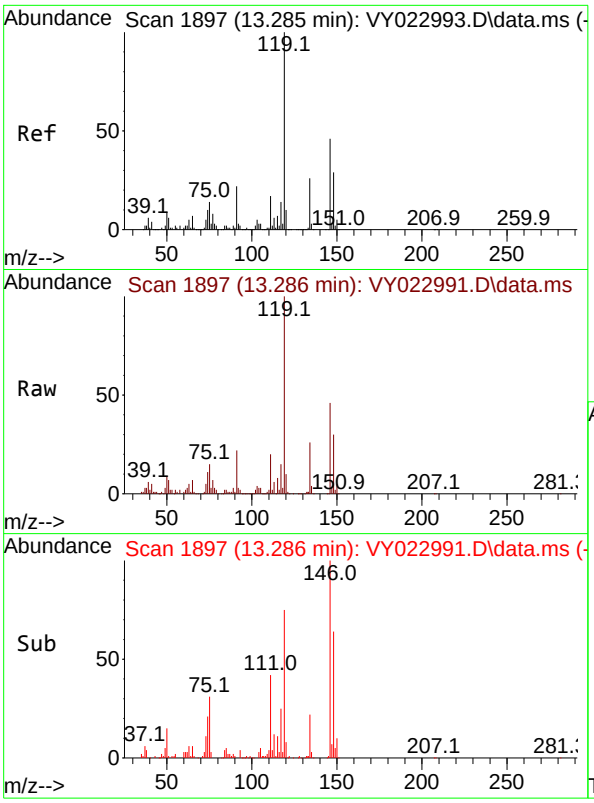


#86
p-Isopropyltoluene
Concen: 9.229 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:119 Resp: 190964

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.1	39.1
91	22.7	11.4	34.1





#87
1,3-Dichlorobenzene
Concen: 9.354 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

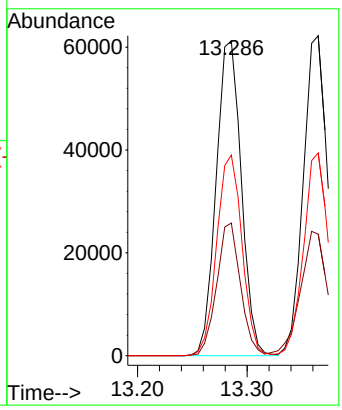
Tgt Ion:146 Resp: 9770

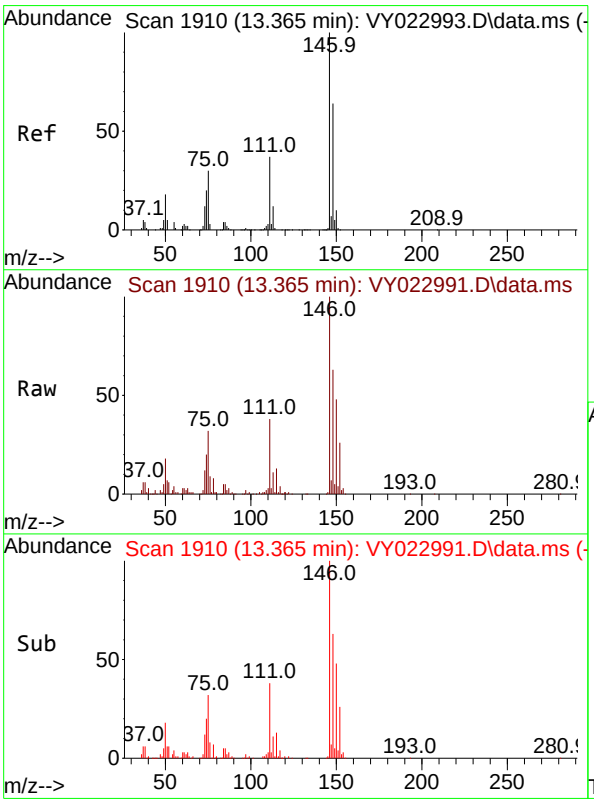
Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.8	59.3
148	64.0	31.6	94.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

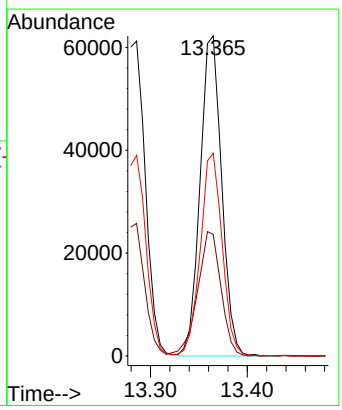


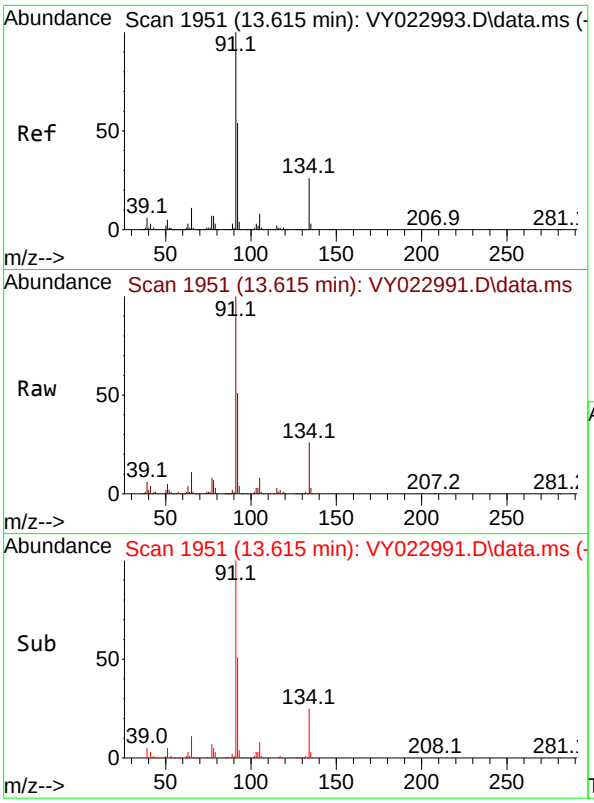


#88
1,4-Dichlorobenzene
Concen: 9.564 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:146 Resp: 96650

Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.2	57.6
148	64.3	31.9	95.5

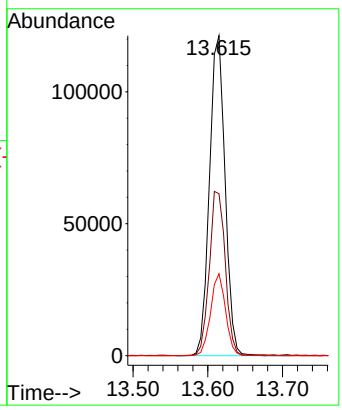




#89
n-Butylbenzene
Concen: 9.249 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 91 Resp: 17659

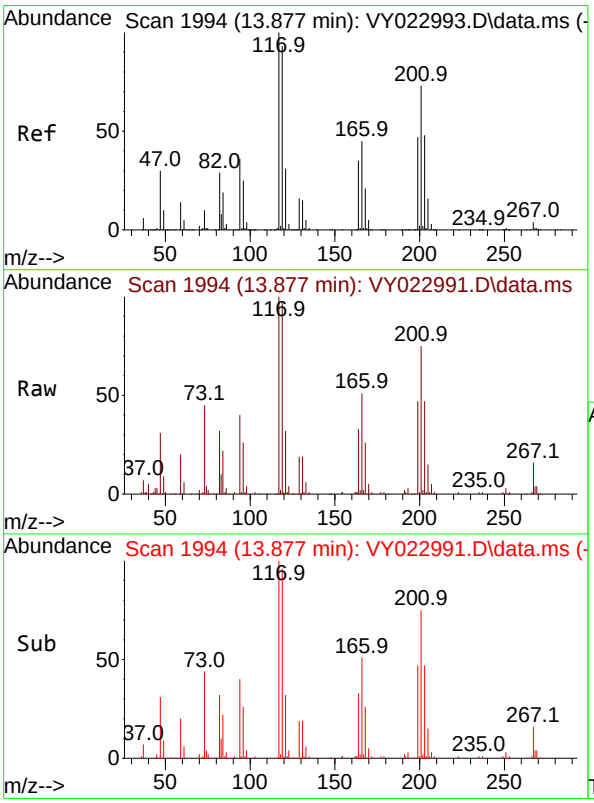
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	24.6	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

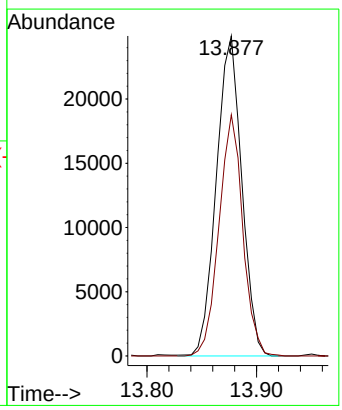
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

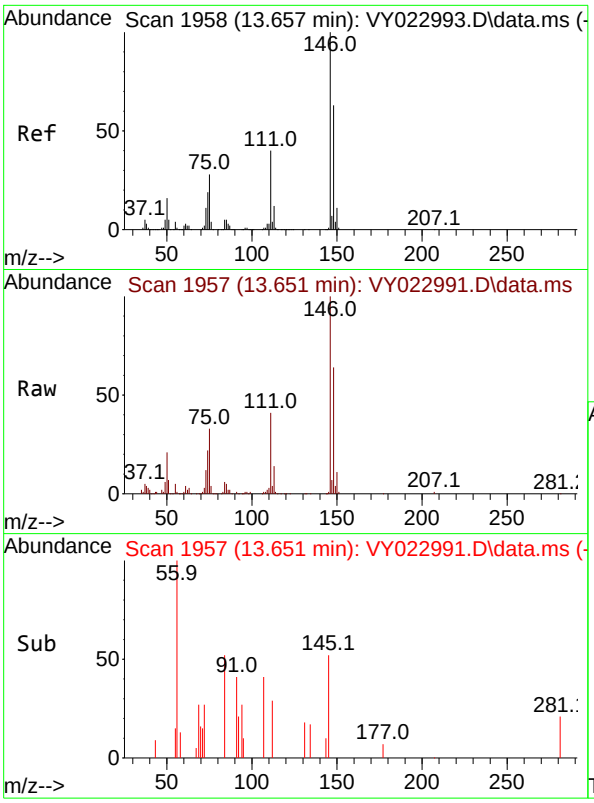


#90
Hexachloroethane
Concen: 9.369 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:117 Resp: 40137

Ion	Ratio	Lower	Upper
117	100		
201	70.6	36.1	108.5

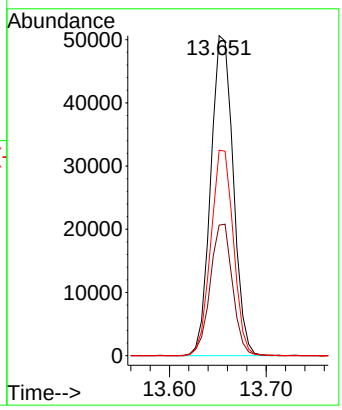




#91
1,2-Dichlorobenzene
Concen: 9.294 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:146 Resp: 8188

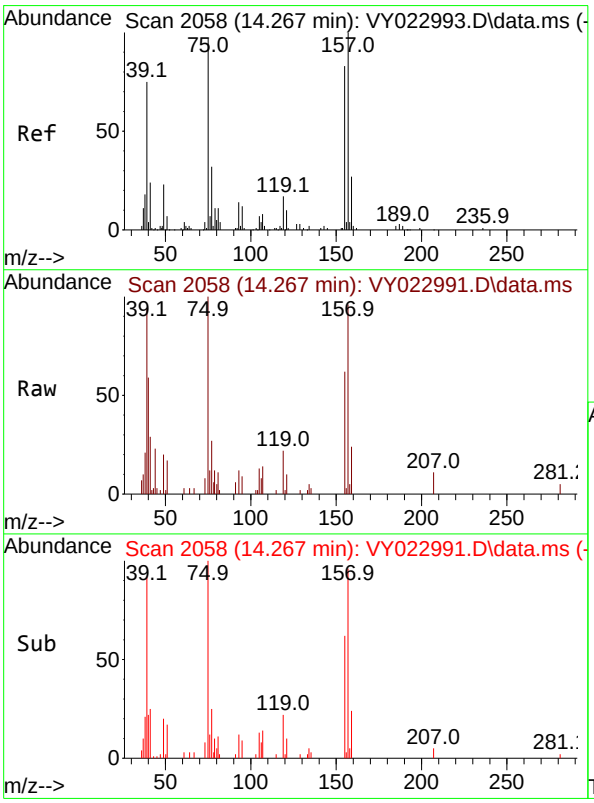
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	61.0
148	64.5	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

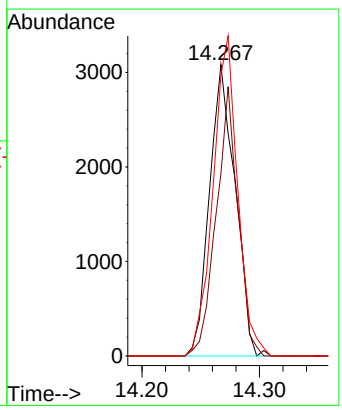
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

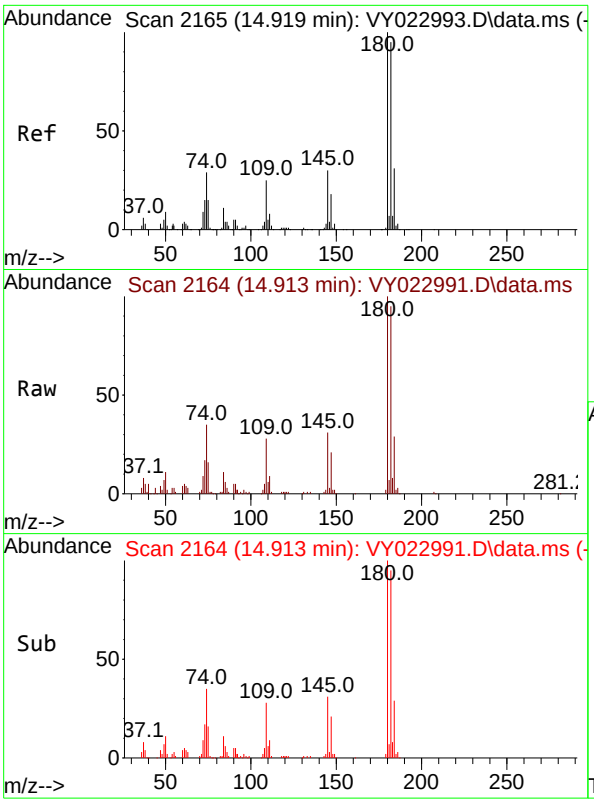


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.166 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 4700

Ion	Ratio	Lower	Upper
75	100		
155	78.3	42.8	128.3
157	105.1	54.3	162.9

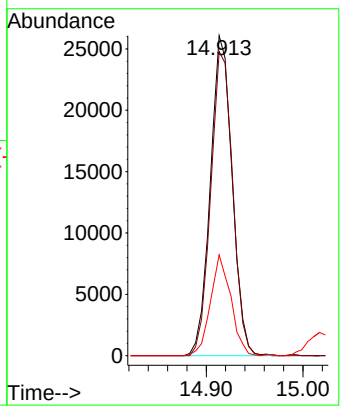




#93
1,2,4-Trichlorobenzene
Concen: 8.800 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:180 Resp: 4087

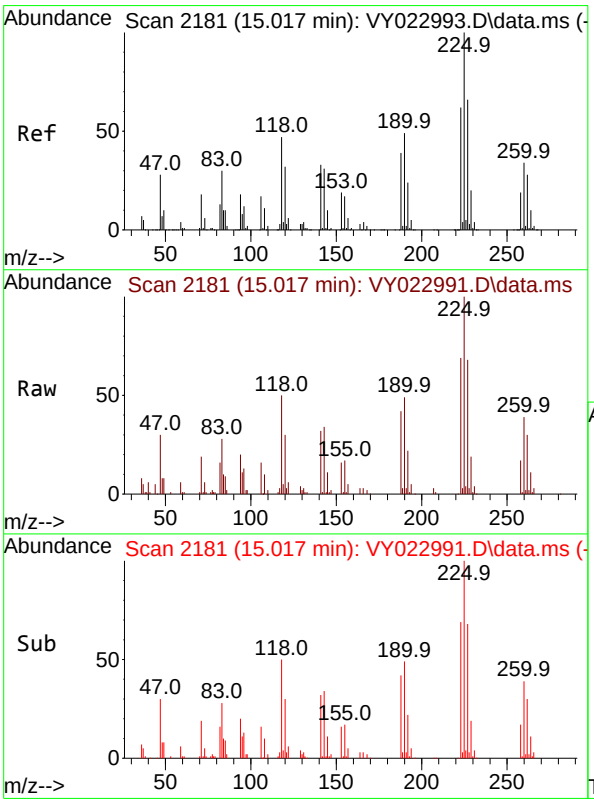
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.5	142.5
145	29.4	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

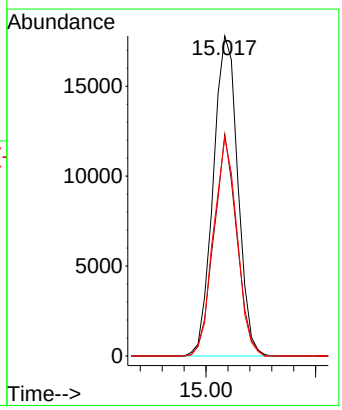
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

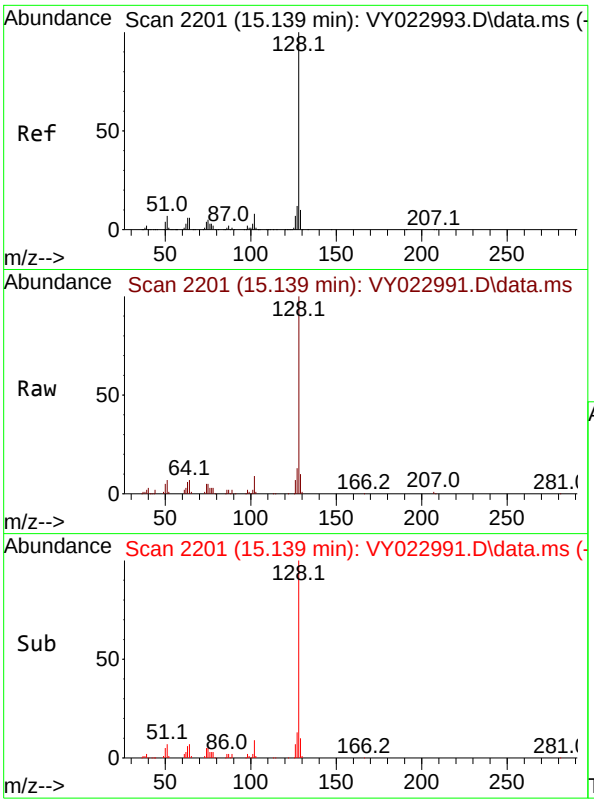


#94
Hexachlorobutadiene
Concen: 9.465 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:225 Resp: 27714

Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.4	94.0
227	65.3	32.1	96.5

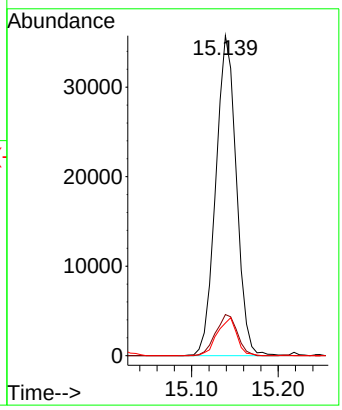




#95
Naphthalene
Concen: 7.926 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:128 Resp: 5903

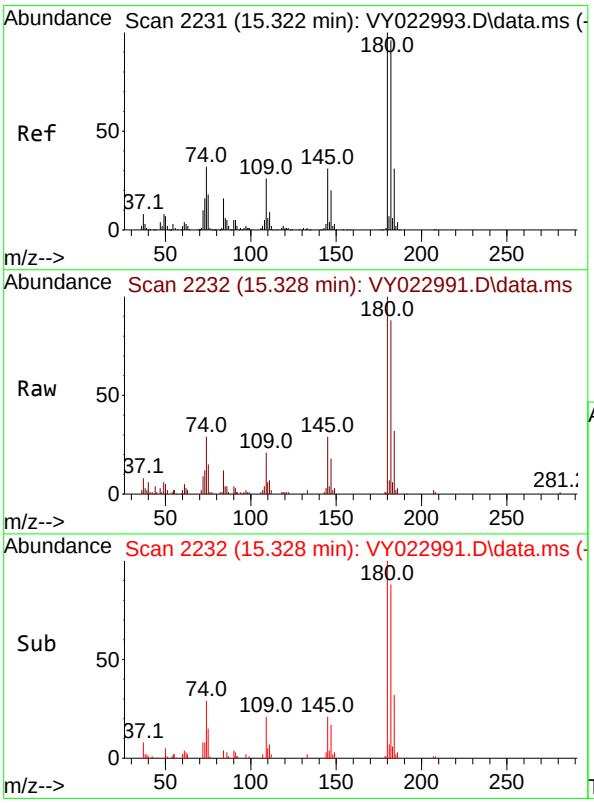
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.2
129	11.3	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

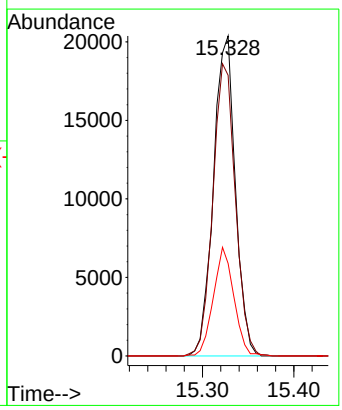
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 8.846 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:180 Resp: 33923

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	142.0
145	31.9	15.8	47.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	408920	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	651408	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	541736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	248244	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	96238	23.248	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	46.500%#		
35) Dibromofluoromethane	7.634	113	97474	23.589	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	47.180%#		
50) Toluene-d8	10.103	98	385999	23.556	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	47.120%#		
62) 4-Bromofluorobenzene	12.402	95	114873	22.270	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	44.540%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	83107	23.935	ug/l	95
3) Chloromethane	2.074	50	144975	24.556	ug/l	98
4) Vinyl Chloride	2.208	62	185061	24.741	ug/l	100
5) Bromomethane	2.592	94	129537	23.996	ug/l	98
6) Chloroethane	2.739	64	119604	23.942	ug/l	95
7) Trichlorofluoromethane	3.056	101	204047	23.500	ug/l	100
8) Diethyl Ether	3.452	74	51301	22.575	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	111028	24.342	ug/l	100
10) Methyl Iodide	4.007	142	113170	23.883	ug/l	98
11) Tert butyl alcohol	4.860	59	28061	111.476	ug/l	96
12) 1,1-Dichloroethene	3.793	96	102333	23.551	ug/l	99
13) Acrolein	3.653	56	19800	174.501	ug/l	100
14) Allyl chloride	4.385	41	153543	23.195	ug/l	97
15) Acrylonitrile	5.055	53	96516	112.128	ug/l	99
16) Acetone	3.873	43	88498	117.937	ug/l	97
17) Carbon Disulfide	4.104	76	320990	24.374	ug/l	100
18) Methyl Acetate	4.391	43	57450	22.614	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	237393	22.778	ug/l	97
20) Methylene Chloride	4.616	84	152623	24.700	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	115595	23.899	ug/l	98
22) Diisopropyl ether	6.019	45	325183	23.155	ug/l	99
23) Vinyl Acetate	5.958	43	808683	114.282	ug/l	100
24) 1,1-Dichloroethane	5.915	63	206224	23.379	ug/l	99
25) 2-Butanone	6.890	43	119127	110.662	ug/l	99
26) 2,2-Dichloropropane	6.884	77	181752	23.510	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	128882	23.120	ug/l	97
28) Bromochloromethane	7.244	49	79854	23.340	ug/l	98
29) Tetrahydrofuran	7.262	42	78302	114.888	ug/l	98
30) Chloroform	7.415	83	207172	23.282	ug/l	97
31) Cyclohexane	7.701	56	192200	23.319	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	190105	23.546	ug/l	99
36) 1,1-Dichloropropene	7.835	75	156287	24.012	ug/l	99
37) Ethyl Acetate	6.988	43	53987	22.333	ug/l	99
38) Carbon Tetrachloride	7.817	117	168861	23.880	ug/l	97
39) Methylcyclohexane	9.109	83	199123	23.636	ug/l	97
40) Benzene	8.079	78	462756	23.613	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	28815m	22.584	ug/l		
42) 1,2-Dichloroethane	8.158	62	113164	23.210	ug/l		98
43) Isopropyl Acetate	8.195	43	109734	22.853	ug/l	#	86
44) Trichloroethene	8.866	130	117248	23.293	ug/l		96
45) 1,2-Dichloropropane	9.140	63	107925	23.583	ug/l		100
46) Dibromomethane	9.231	93	54583	23.074	ug/l		99
47) Bromodichloromethane	9.420	83	153091	23.413	ug/l		100
48) Methyl methacrylate	9.219	41	52108	22.478	ug/l		99
49) 1,4-Dioxane	9.231	88	10878	436.257	ug/l		95
51) 4-Methyl-2-Pentanone	9.993	43	276366	113.395	ug/l		98
52) Toluene	10.170	92	283471	23.265	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	128369	22.870	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	157554	23.288	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	71370	22.955	ug/l		95
56) Ethyl methacrylate	10.438	69	84006	21.644	ug/l		99
57) 1,3-Dichloropropane	10.713	76	124222	23.129	ug/l		97
58) 2-Chloroethyl Vinyl ether	9.707	63	199993	105.265	ug/l		98
59) 2-Hexanone	10.762	43	176582	110.226	ug/l		100
60) Dibromochloromethane	10.908	129	93599	22.990	ug/l		99
61) 1,2-Dibromoethane	11.012	107	64601	22.880	ug/l		100
64) Tetrachloroethene	10.646	164	122138	22.057	ug/l		92
65) Chlorobenzene	11.438	112	293874	22.989	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	99114	22.732	ug/l		99
67) Ethyl Benzene	11.518	91	522955	23.080	ug/l		97
68) m/p-Xylenes	11.627	106	402055	46.261	ug/l		99
69) o-Xylene	11.950	106	186047	23.067	ug/l		98
70) Styrene	11.969	104	303236	22.952	ug/l		100
71) Bromoform	12.127	173	48429	21.879	ug/l	#	100
73) Isopropylbenzene	12.255	105	497888	23.656	ug/l		100
74) N-amyl acetate	12.066	43	86729	21.857	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	74385	24.423	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	70821m	22.668	ug/l		
77) Bromobenzene	12.530	156	105553	23.124	ug/l		99
78) n-propylbenzene	12.591	91	596905	23.816	ug/l		99
79) 2-Chlorotoluene	12.676	91	331602	23.524	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	389641	23.473	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	23253	22.390	ug/l		97
82) 4-Chlorotoluene	12.773	91	330802	23.268	ug/l		99
83) tert-Butylbenzene	12.993	119	352211	23.490	ug/l		97
84) 1,2,4-Trimethylbenzene	13.042	105	382534	23.411	ug/l		99
85) sec-Butylbenzene	13.170	105	534996	23.809	ug/l		100
86) p-Isopropyltoluene	13.286	119	428741	23.494	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	210649	22.867	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	204733	22.973	ug/l		100
89) n-Butylbenzene	13.615	91	396249	23.531	ug/l		100
90) Hexachloroethane	13.877	117	88795	23.502	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	177792	22.880	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10028	22.174	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	93971	22.942	ug/l		98
94) Hexachlorobutadiene	15.017	225	62599	24.242	ug/l		98
95) Naphthalene	15.139	128	139330	21.209	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	75143	22.219	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

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

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

ICAL Form

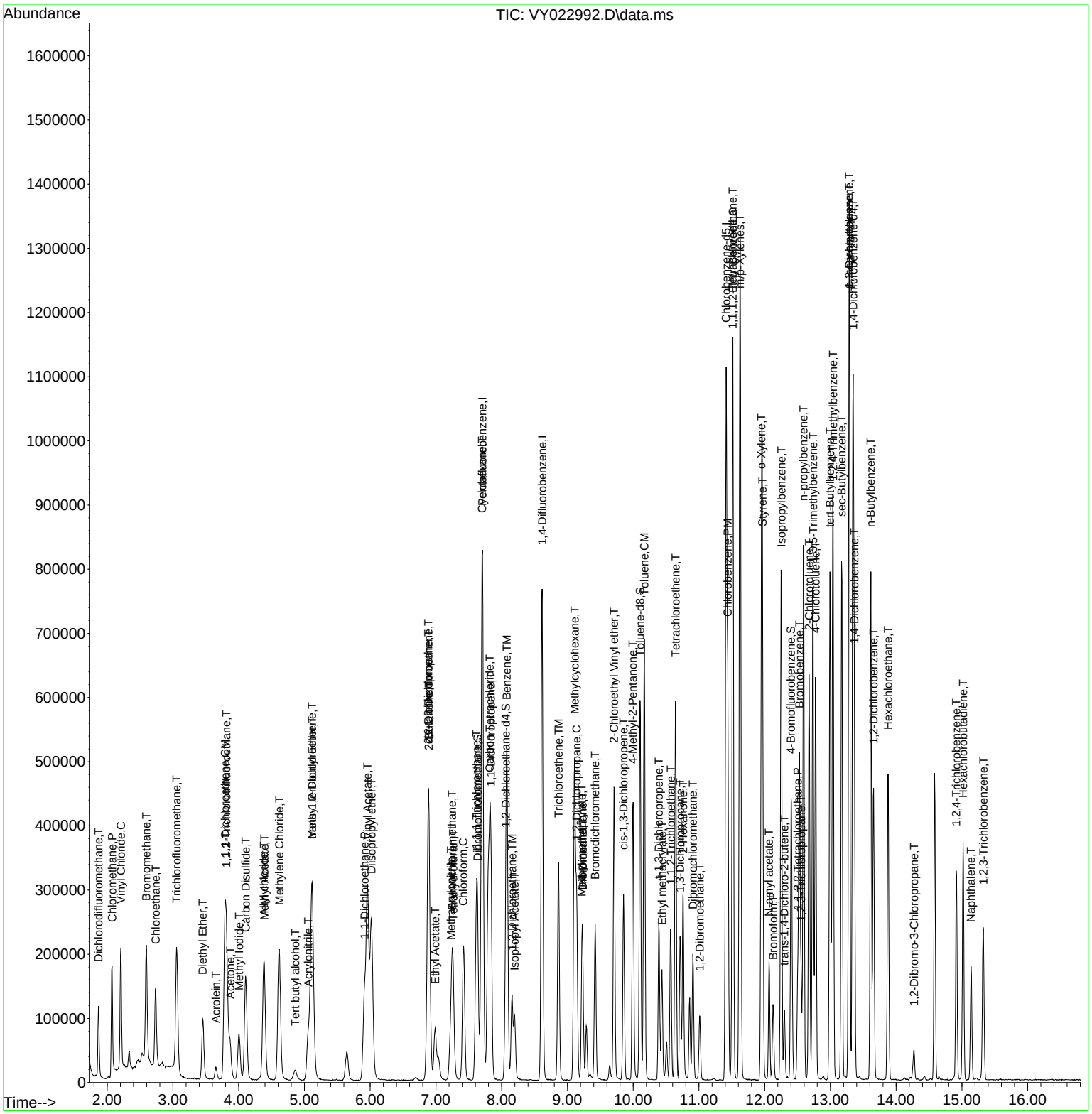
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

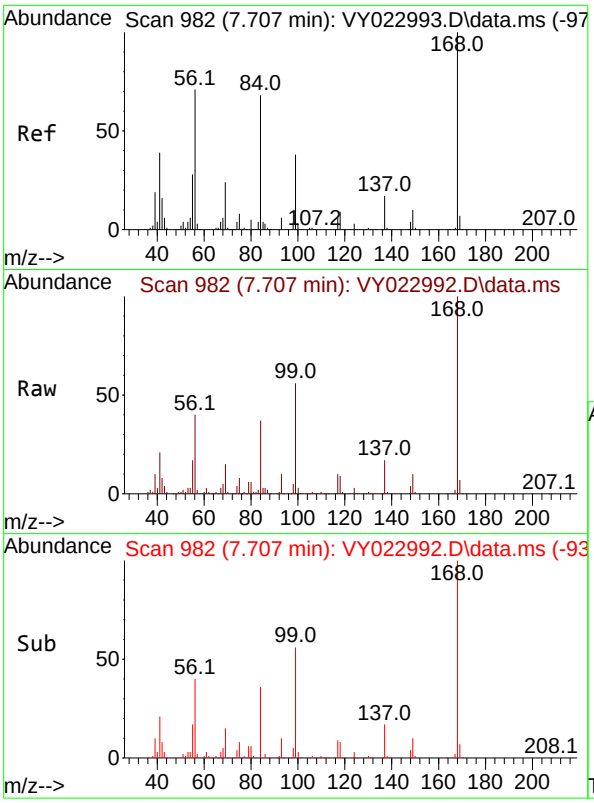
Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

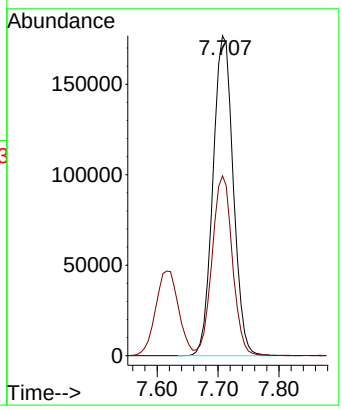




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:168 Resp: 40892

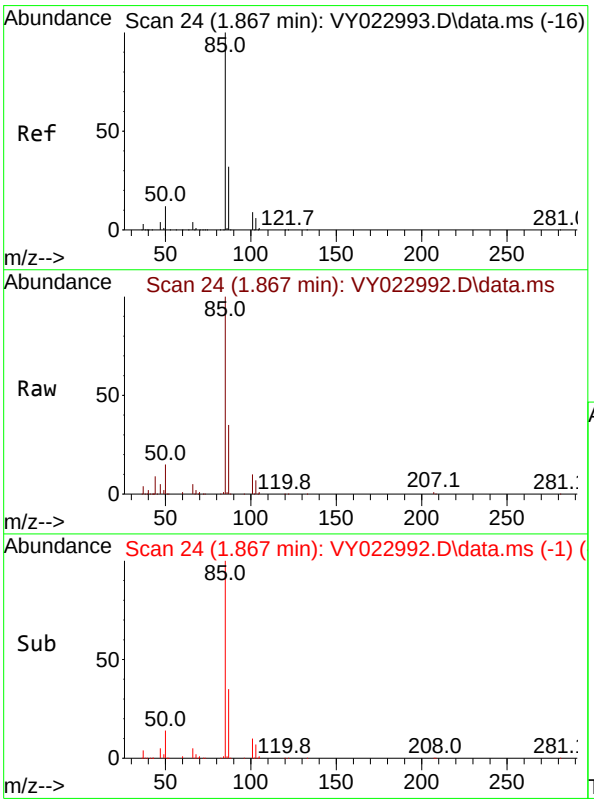
Ion	Ratio	Lower	Upper
168	100		
99	56.1	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

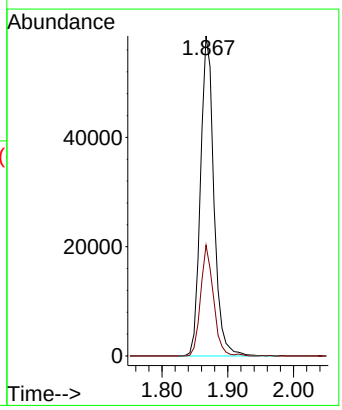
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

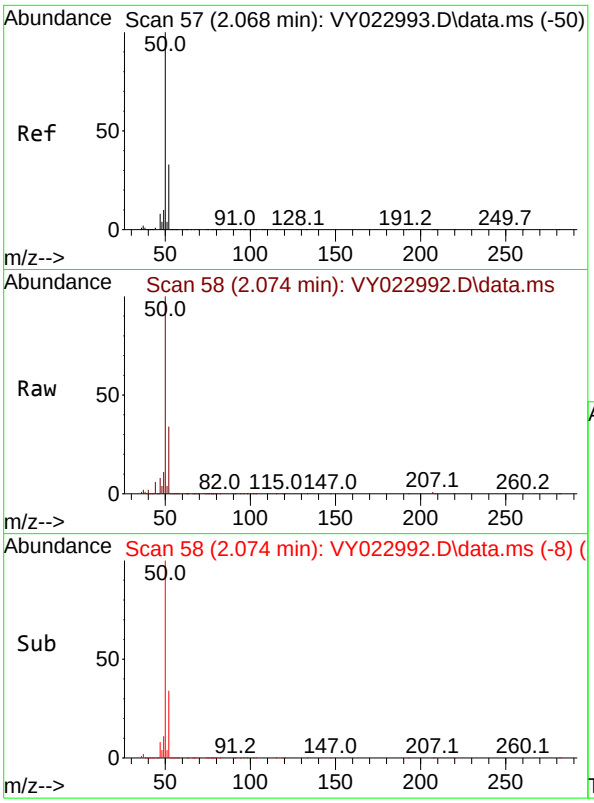


#2
Dichlorodifluoromethane
Concen: 23.935 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 85 Resp: 83107

Ion	Ratio	Lower	Upper
85	100		
87	34.6	16.0	47.9

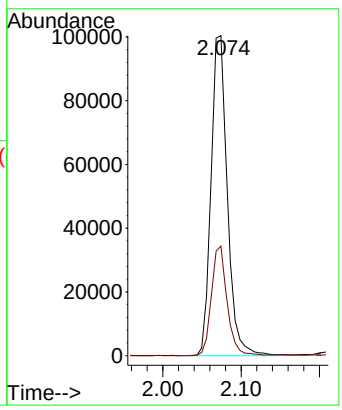




#3
Chloromethane
Concen: 24.556 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 50 Resp: 14497

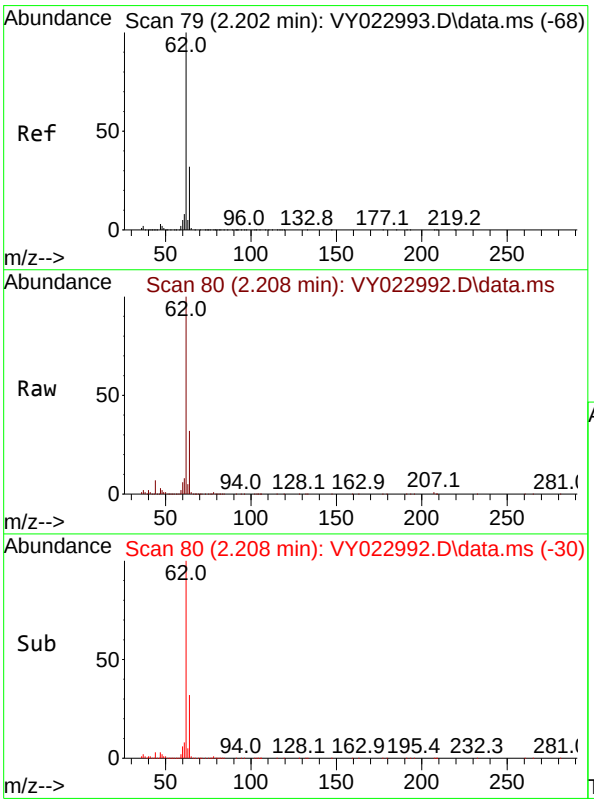
Ion	Ratio	Lower	Upper
50	100		
52	34.2	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

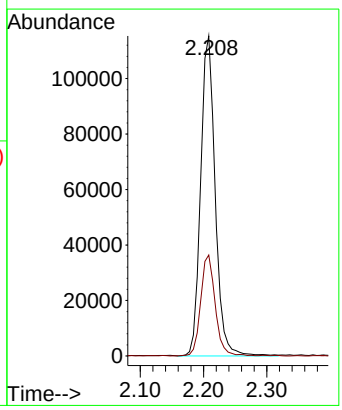
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

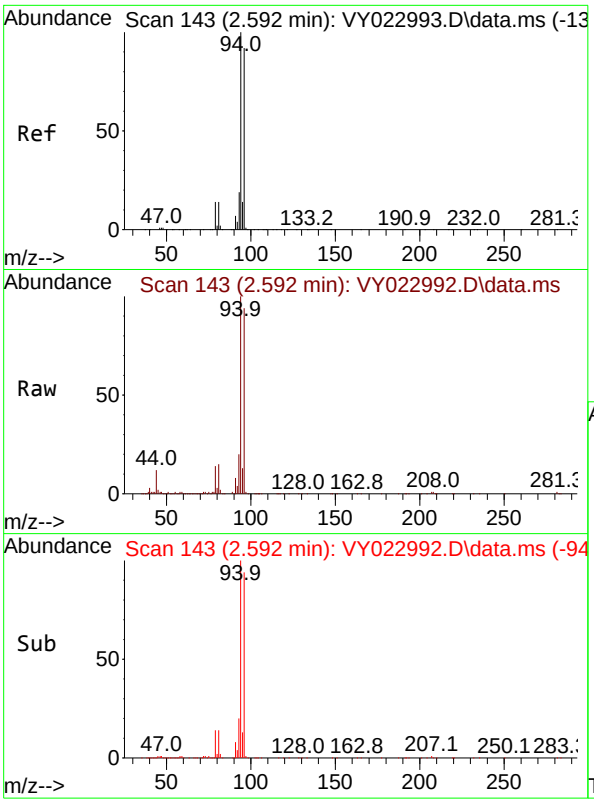


#4
Vinyl Chloride
Concen: 24.741 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 62 Resp: 185061

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8





#5
Bromomethane
Concen: 23.996 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

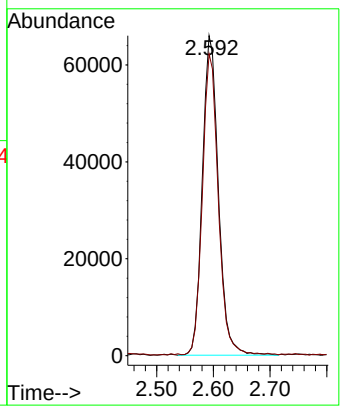
Tgt Ion: 94 Resp: 12953

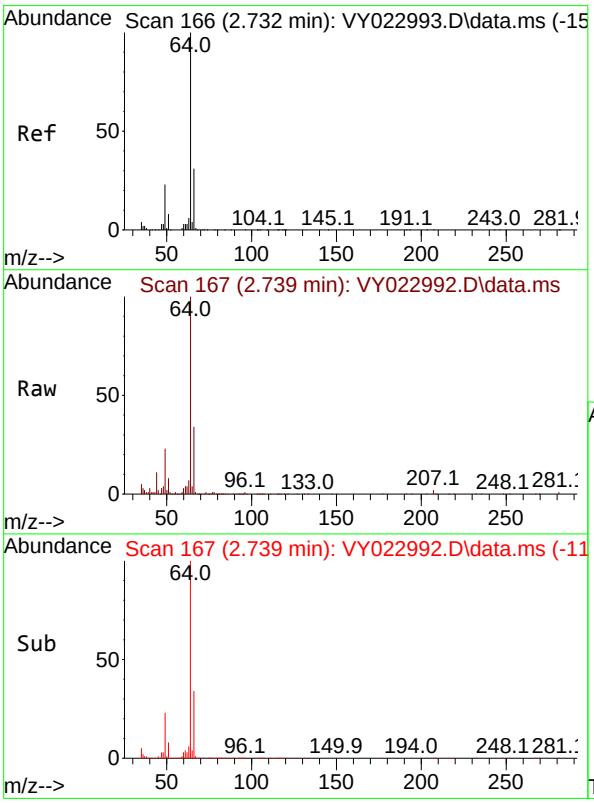
Ion	Ratio	Lower	Upper
94	100		
96	94.2	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

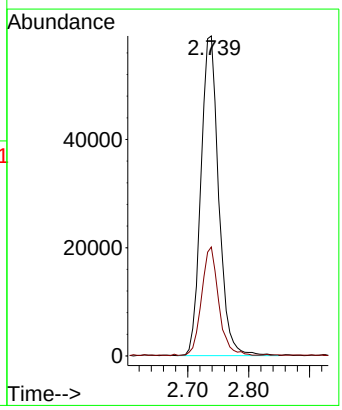


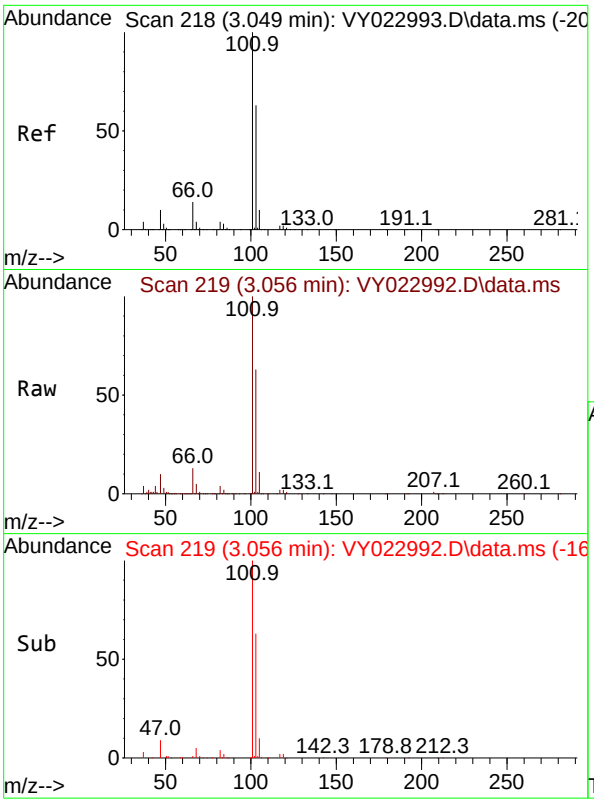


#6
Chloroethane
Concen: 23.942 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 64 Resp: 119604

Ion	Ratio	Lower	Upper
64	100		
66	33.9	24.9	37.3

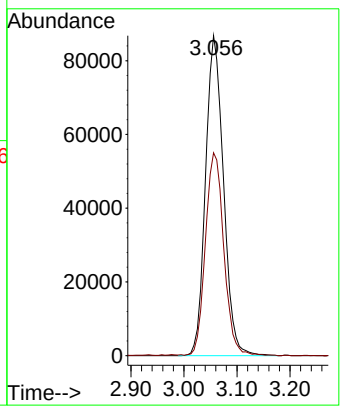




#7
Trichlorofluoromethane
Concen: 23.500 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:101 Resp: 20404

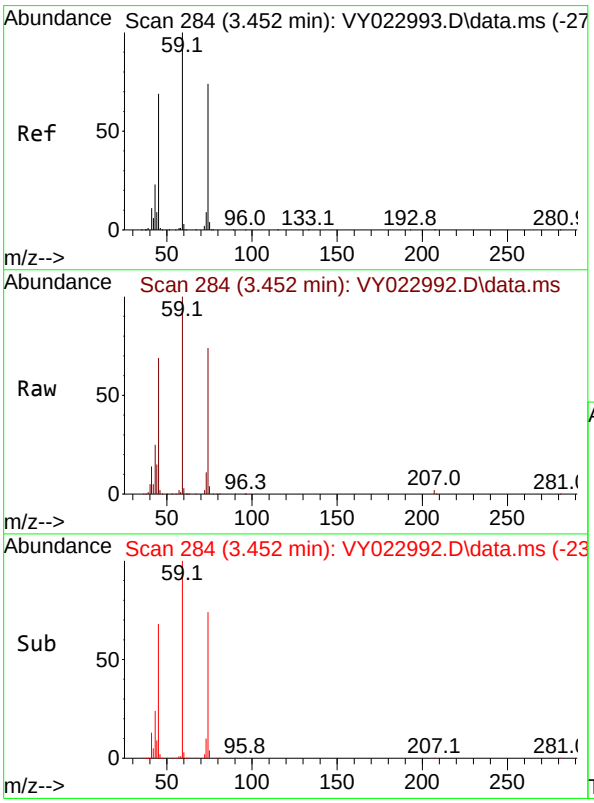
Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

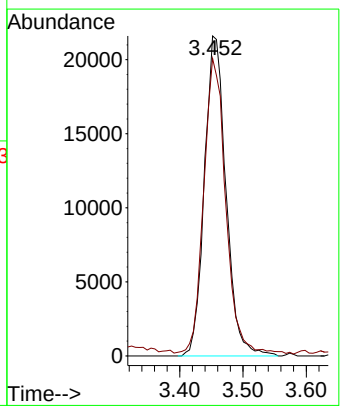
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

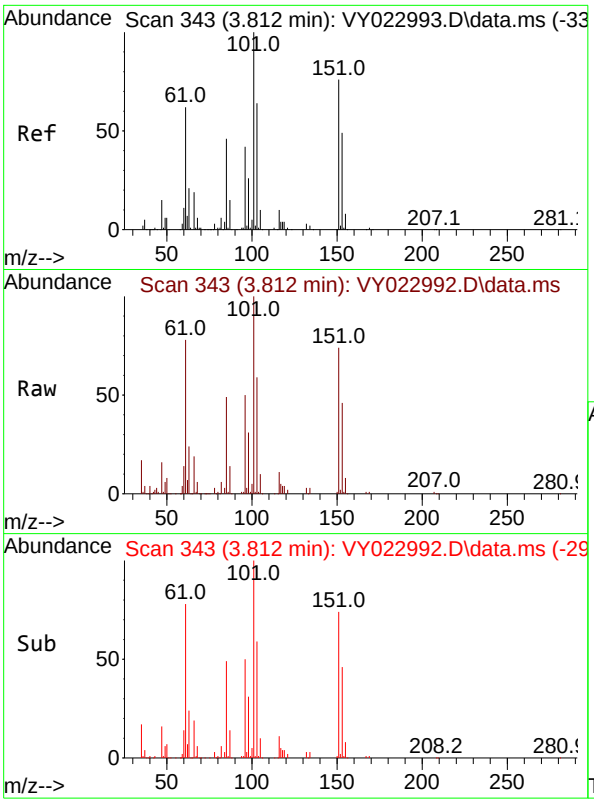


#8
Diethyl Ether
Concen: 22.575 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 74 Resp: 51301

Ion	Ratio	Lower	Upper
74	100		
45	94.4	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 24.342 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

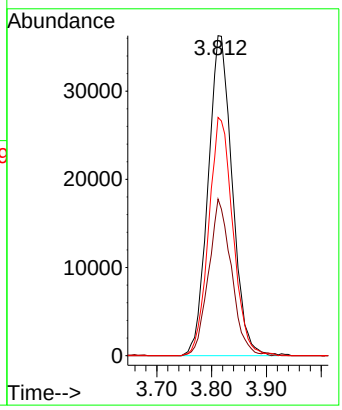
Tgt Ion:101 Resp: 11102

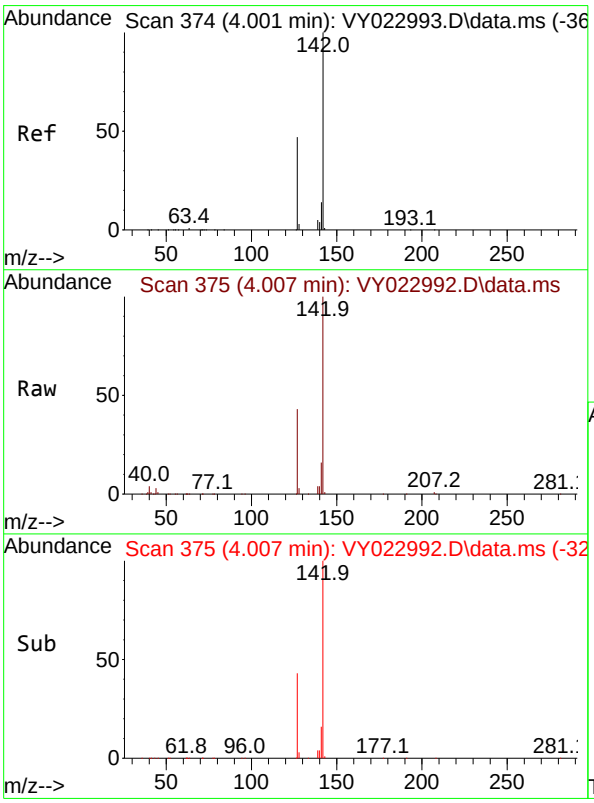
Ion	Ratio	Lower	Upper
101	100		
85	46.3	37.2	55.8
151	74.7	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

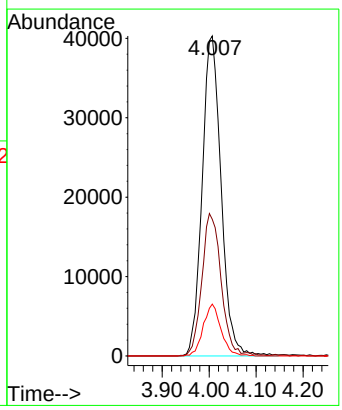


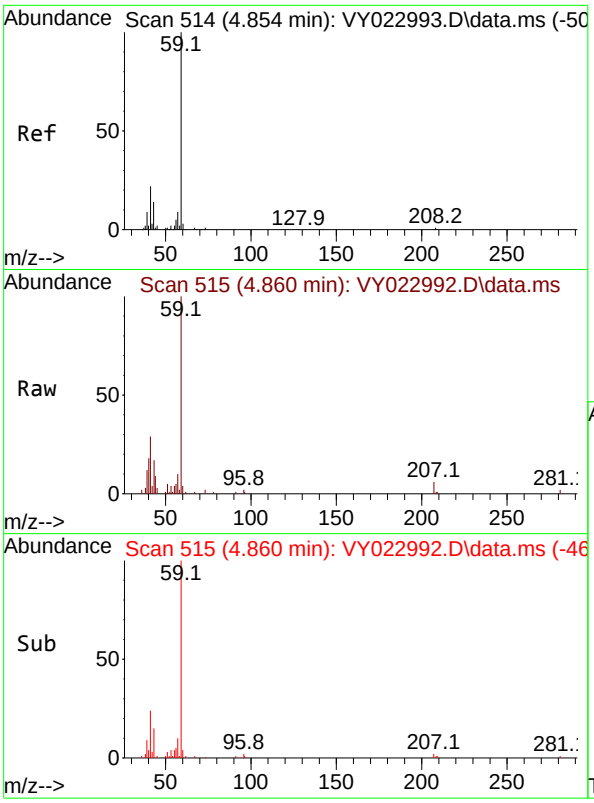


#10
Methyl Iodide
Concen: 23.883 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:142 Resp: 113170

Ion	Ratio	Lower	Upper
142	100		
127	44.8	37.0	55.6
141	15.2	11.4	17.2

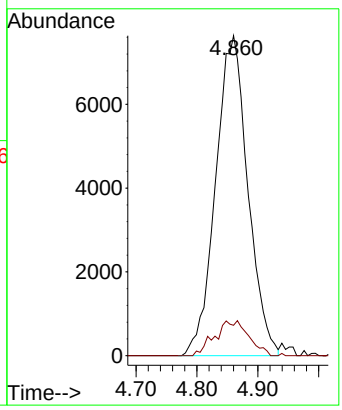




#11
Tert butyl alcohol
Concen: 111.476 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 59 Resp: 2806

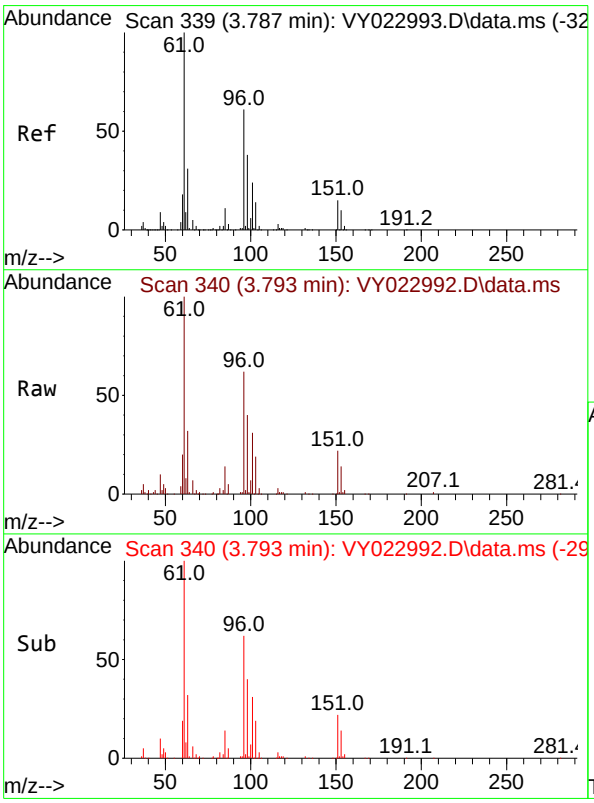
Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

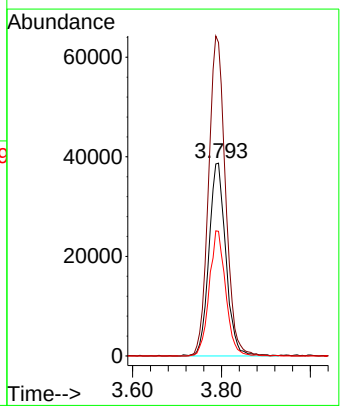
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

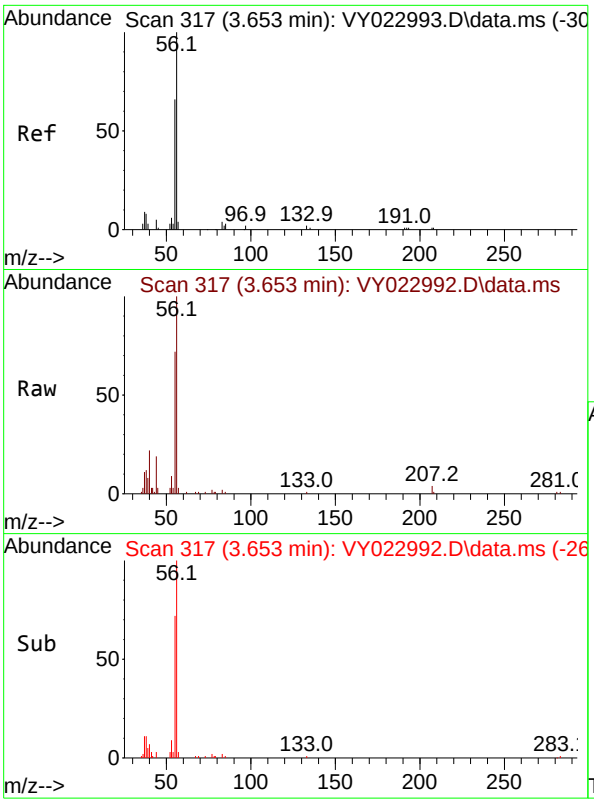


#12
1,1-Dichloroethene
Concen: 23.551 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 96 Resp: 102333

Ion	Ratio	Lower	Upper
96	100		
61	162.5	130.4	195.6
98	64.6	49.6	74.4

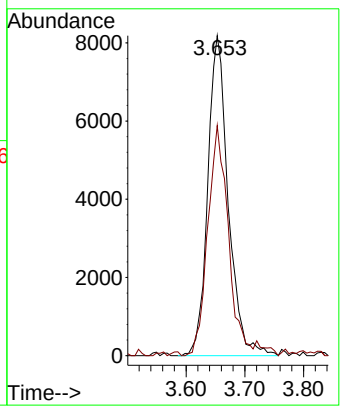




#13
Acrolein
Concen: 174.501 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 56 Resp: 1980

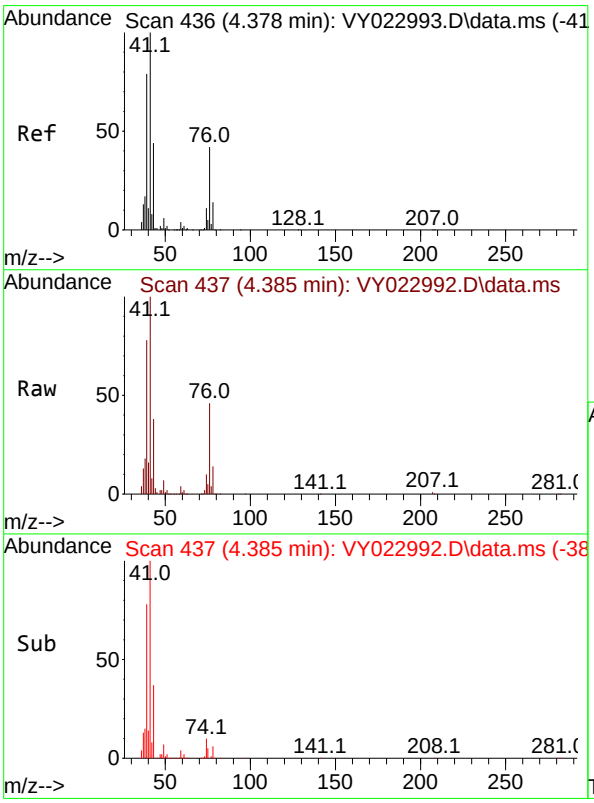
Ion	Ratio	Lower	Upper
56	100		
55	71.9	57.8	86.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

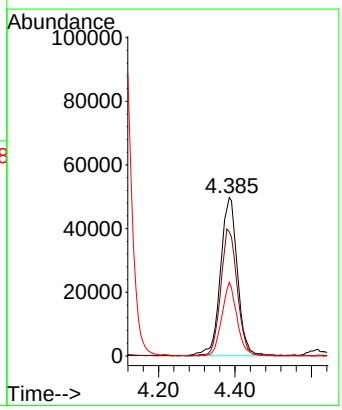
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

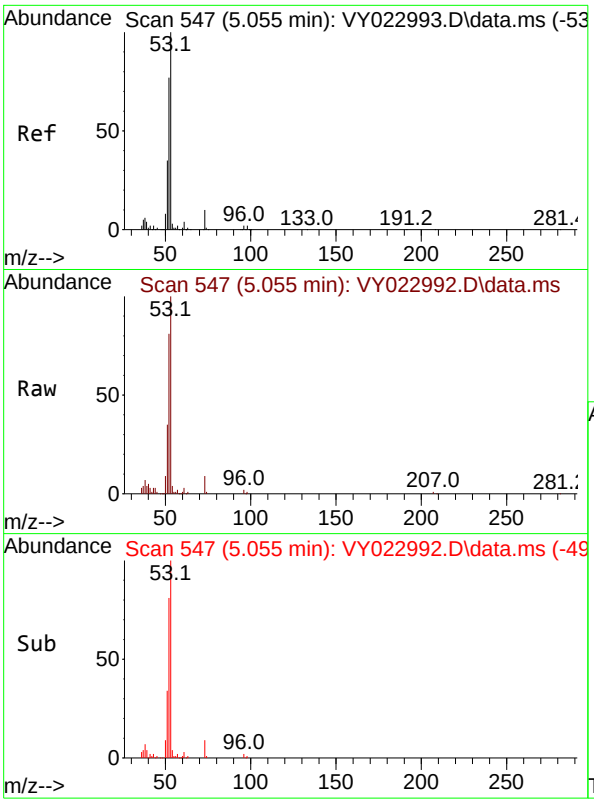


#14
Allyl chloride
Concen: 23.195 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 41 Resp: 153543

Ion	Ratio	Lower	Upper
41	100		
39	78.5	60.1	90.1
76	41.5	32.2	48.4

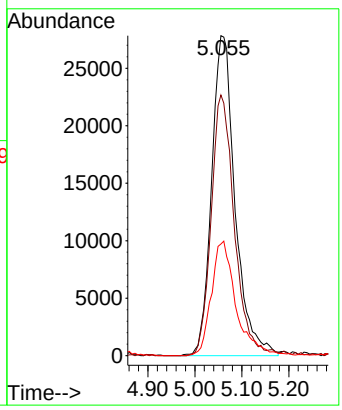




#15
Acrylonitrile
Concen: 112.128 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 53 Resp: 9651

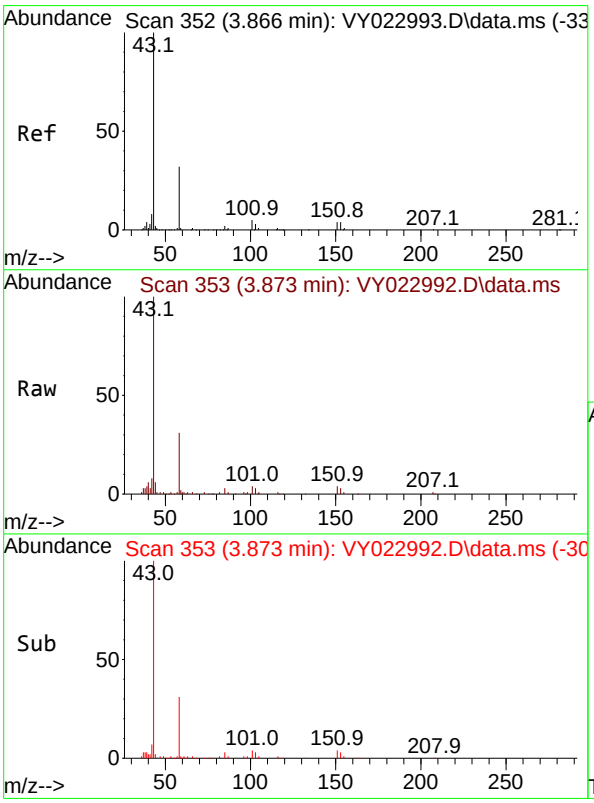
Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.2	97.8
51	37.7	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

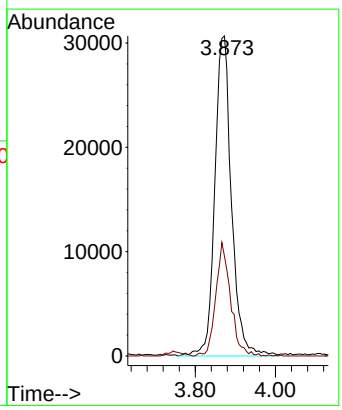
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

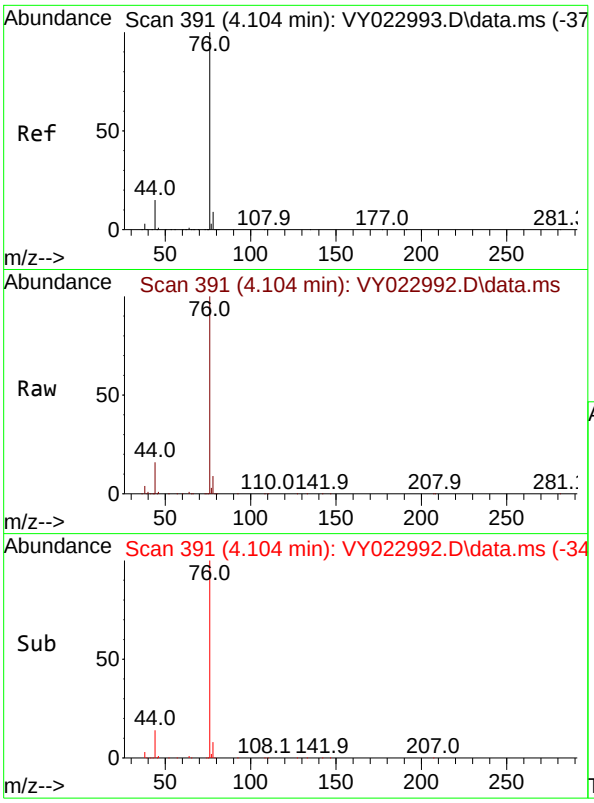


#16
Acetone
Concen: 117.937 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 88498

Ion	Ratio	Lower	Upper
43	100		
58	31.2	26.2	39.4





#17
Carbon Disulfide
Concen: 24.374 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

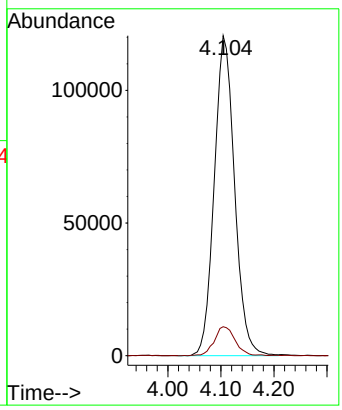
Tgt Ion: 76 Resp: 32099

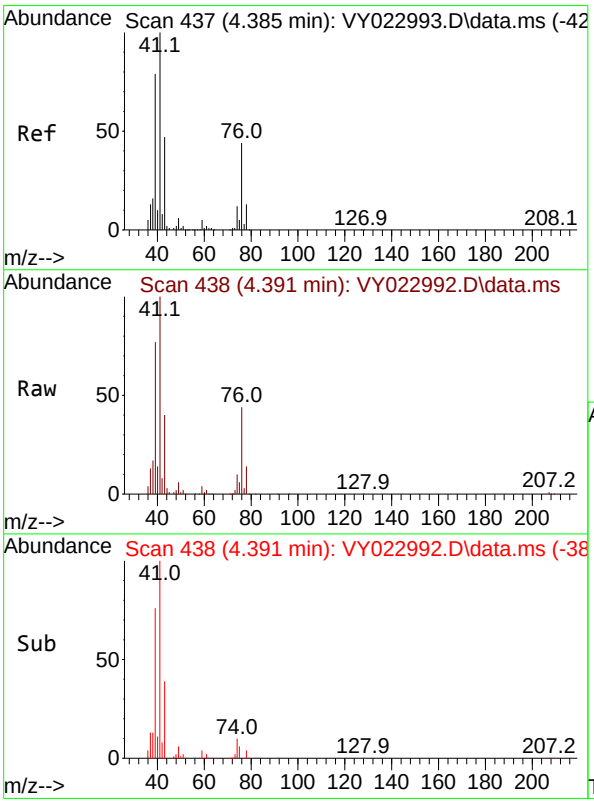
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

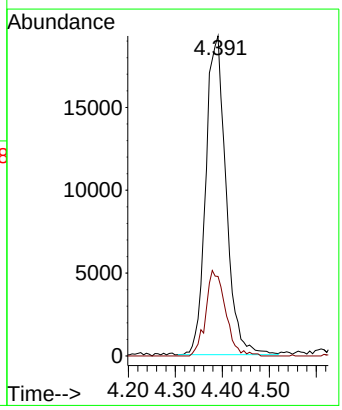


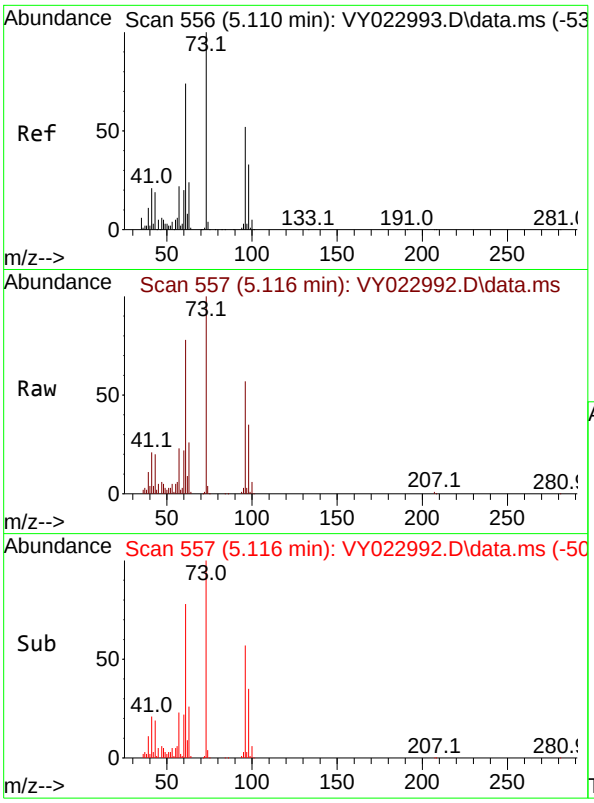


#18
Methyl Acetate
Concen: 22.614 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 57450

Ion	Ratio	Lower	Upper
43	100		
74	26.3	20.1	30.1

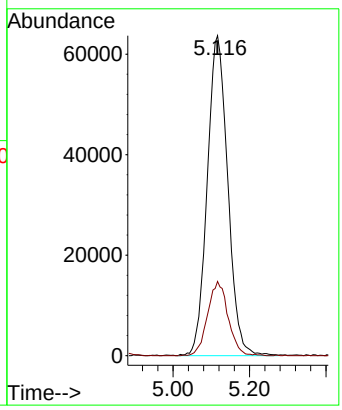




#19
Methyl tert-butyl Ether
Concen: 22.778 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 73 Resp: 23739

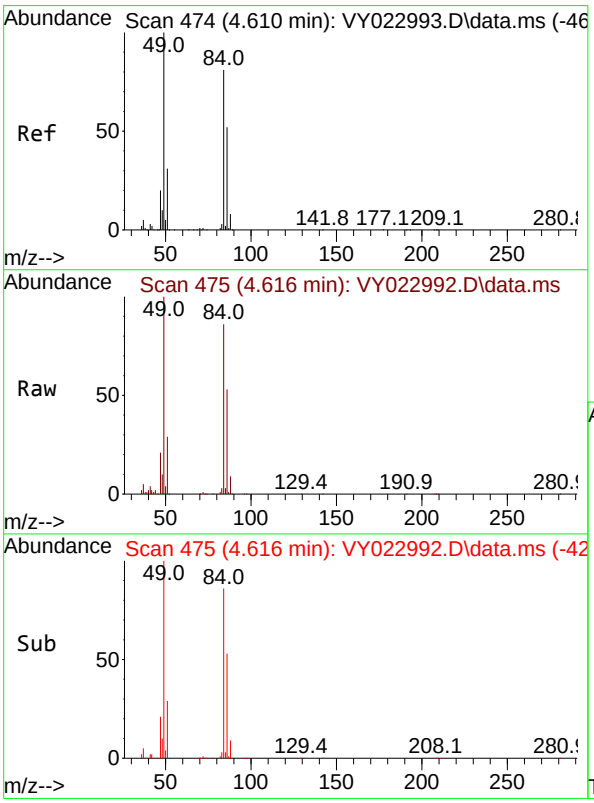
Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

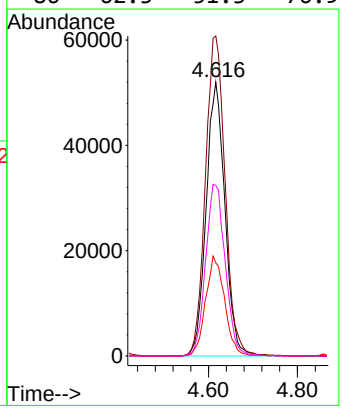
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

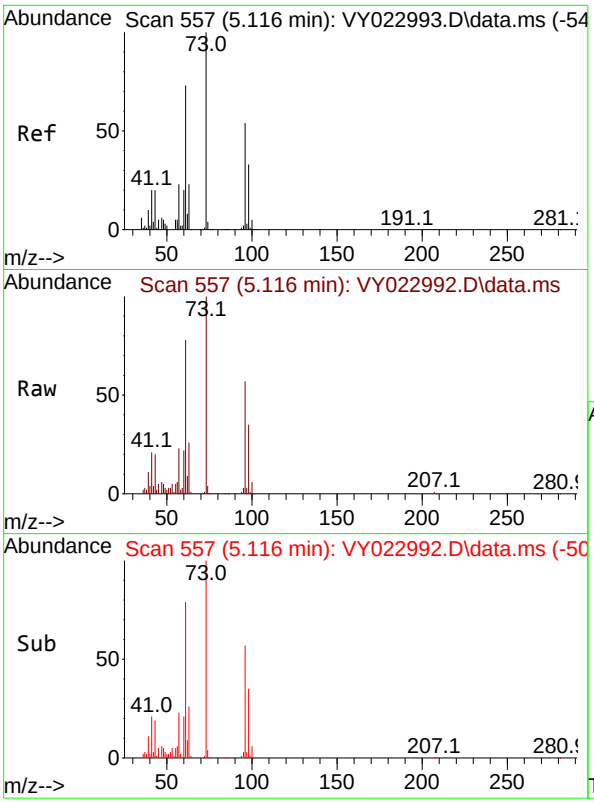


#20
Methylene Chloride
Concen: 24.700 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 84 Resp: 152623

Ion	Ratio	Lower	Upper
84	100		
49	116.9	98.2	147.4
51	34.0	30.5	45.7
86	62.3	51.3	76.9

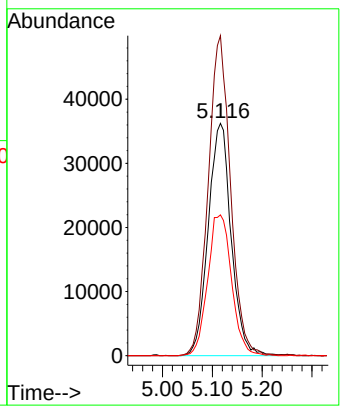




#21
trans-1,2-Dichloroethene
Concen: 23.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 96 Resp: 11559

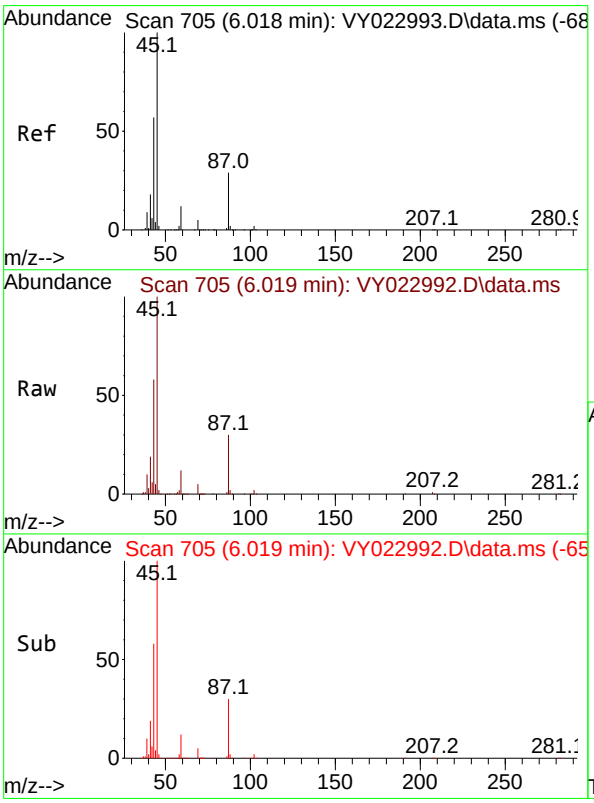
Ion	Ratio	Lower	Upper
96	100		
61	137.7	107.4	161.2
98	60.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

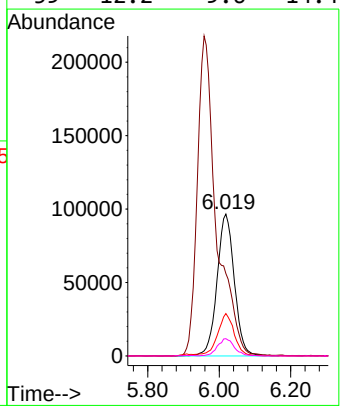
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

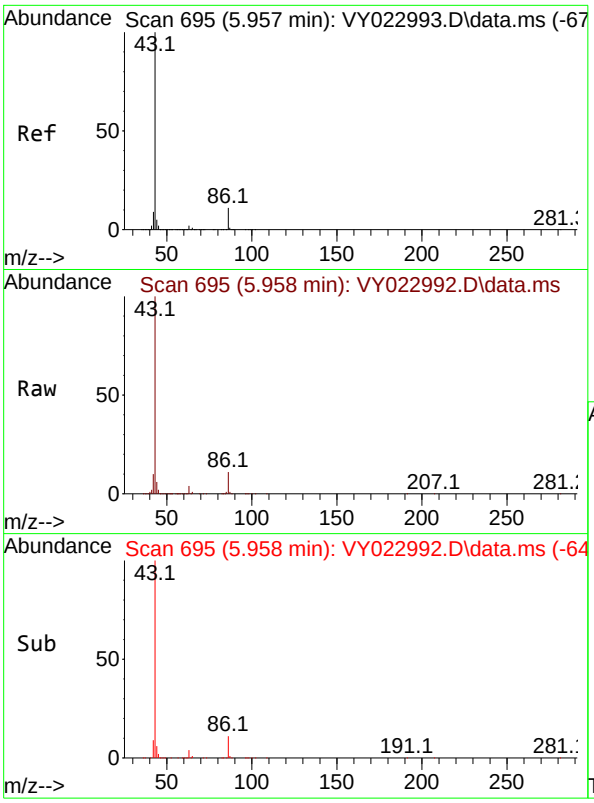


#22
Diisopropyl ether
Concen: 23.155 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 45 Resp: 325183

Ion	Ratio	Lower	Upper
45	100		
43	57.8	45.3	67.9
87	29.8	23.3	34.9
59	12.2	9.6	14.4





#23
Vinyl Acetate
Concen: 114.282 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

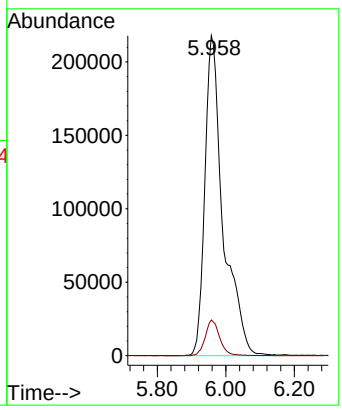
Tgt Ion: 43 Resp: 80868

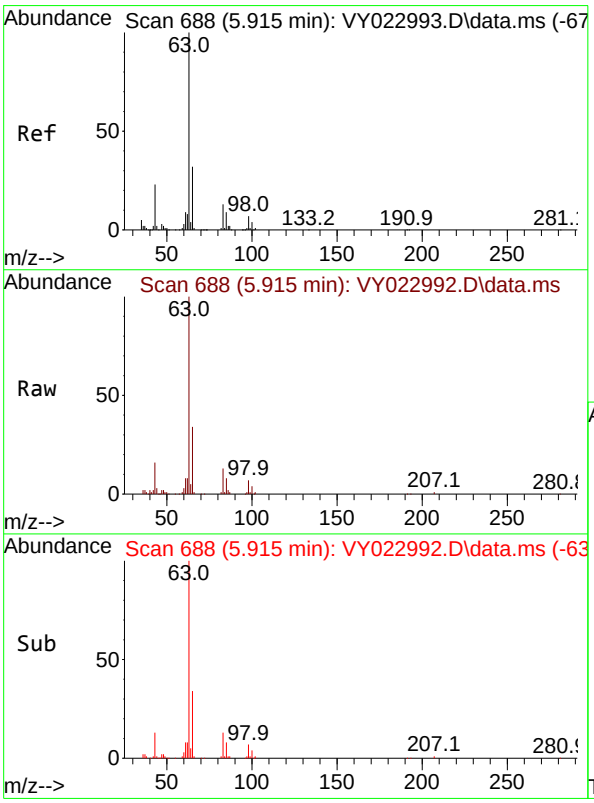
Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

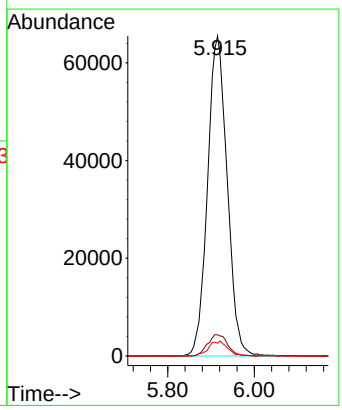


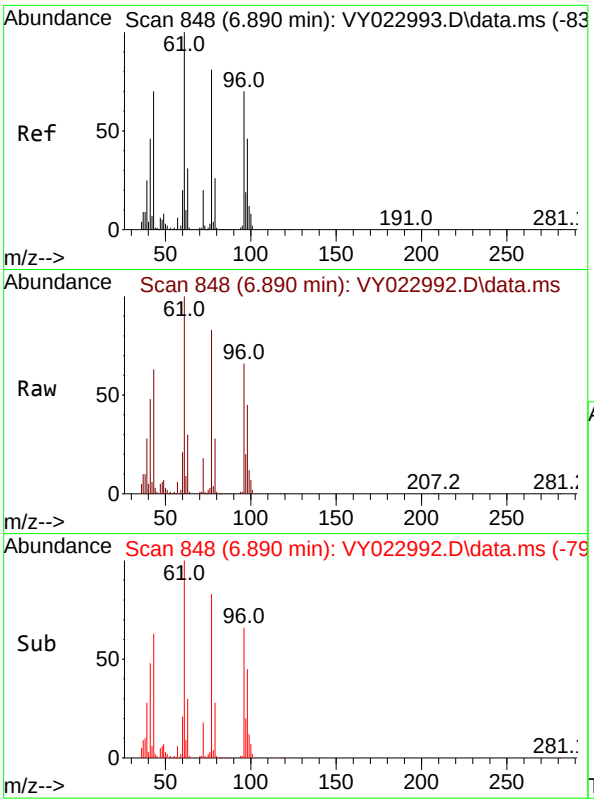


#24
1,1-Dichloroethane
Concen: 23.379 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 63 Resp: 206224

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	4.0	2.1	6.2





#25
2-Butanone
Concen: 110.662 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

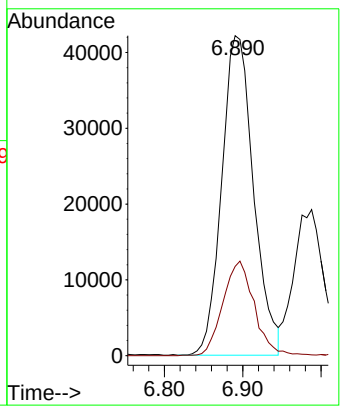
Tgt Ion: 43 Resp: 11912

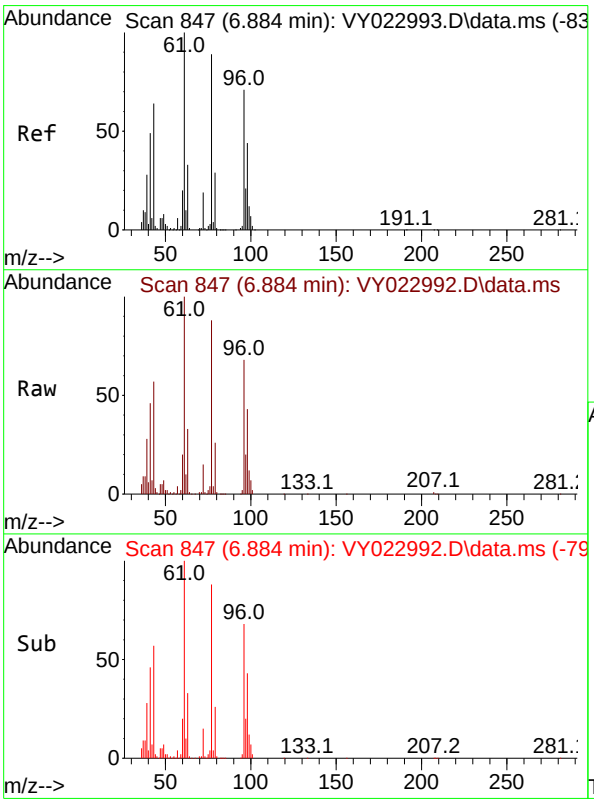
Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

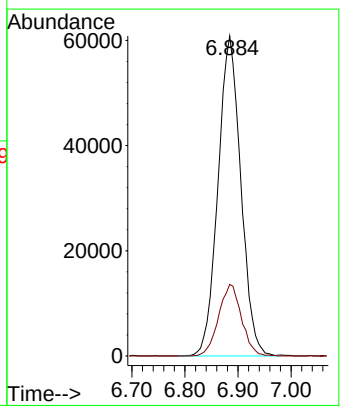


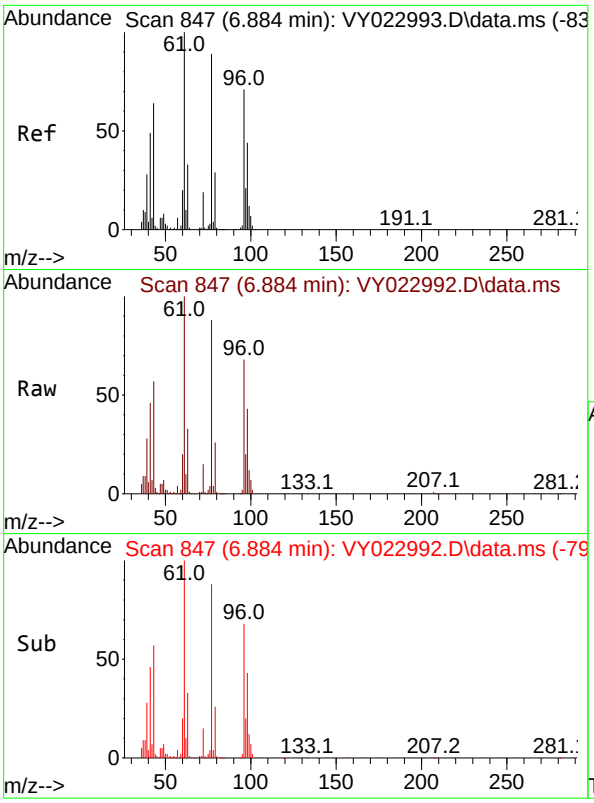


#26
2,2-Dichloropropane
Concen: 23.510 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 77 Resp: 181752

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 23.120 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

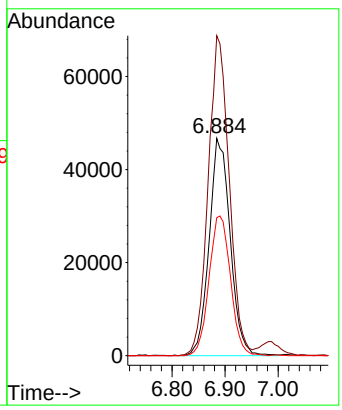
Tgt Ion: 96 Resp: 12888

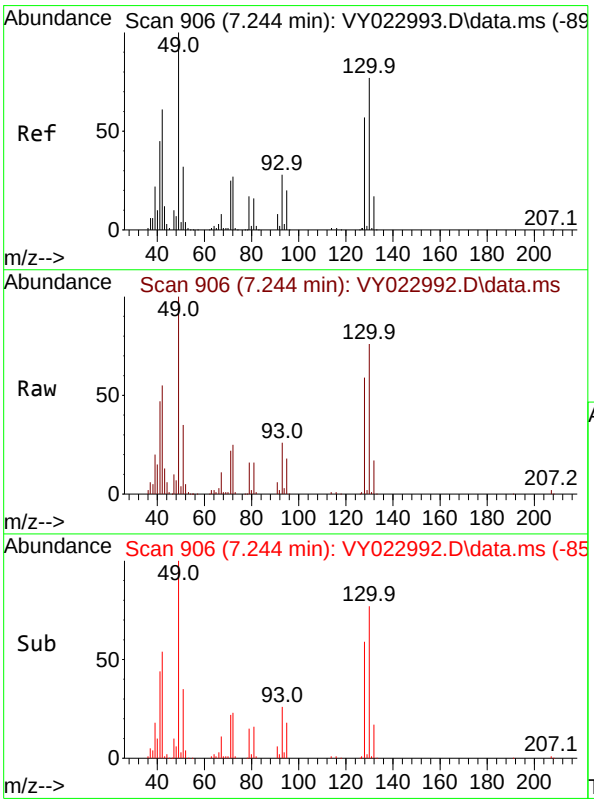
Ion	Ratio	Lower	Upper
96	100		
61	146.8	0.0	286.2
98	65.5	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

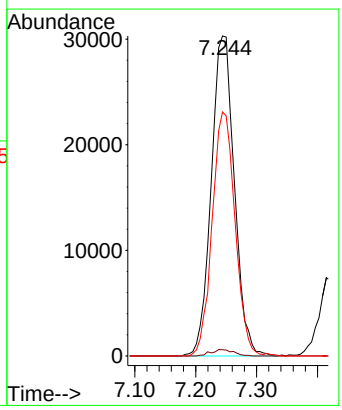


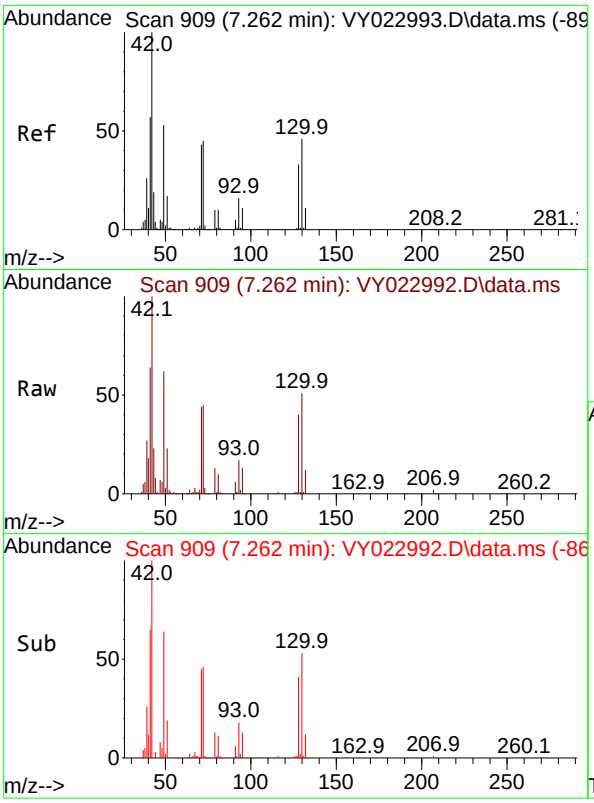


#28
Bromochloromethane
Concen: 23.340 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 49 Resp: 79854

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	75.2	61.8	92.8

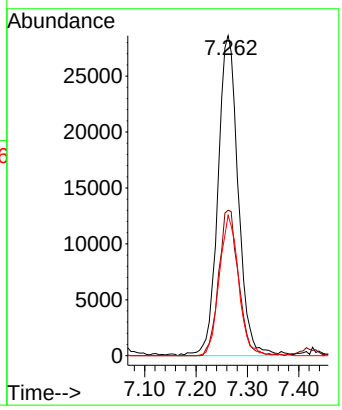




#29
Tetrahydrofuran
Concen: 114.888 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 42 Resp: 7830

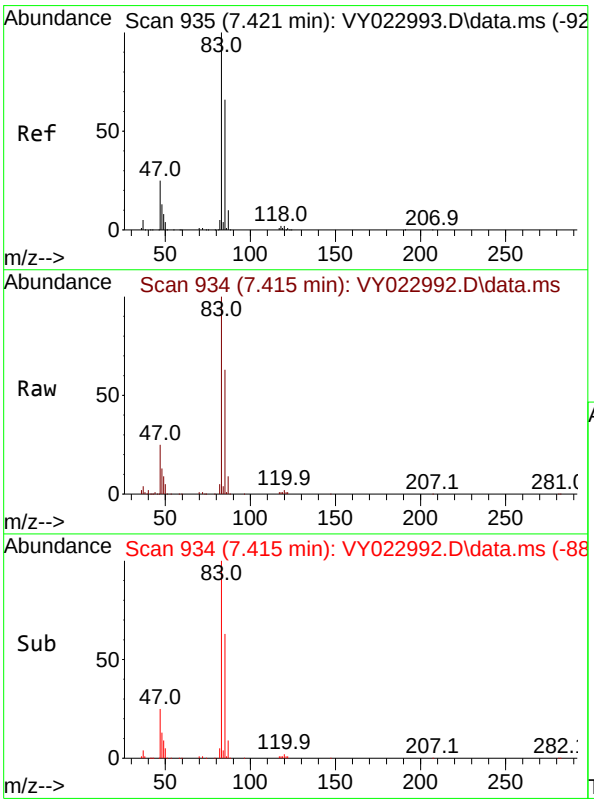
Ion	Ratio	Lower	Upper
42	100		
72	44.5	37.5	56.3
71	42.0	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

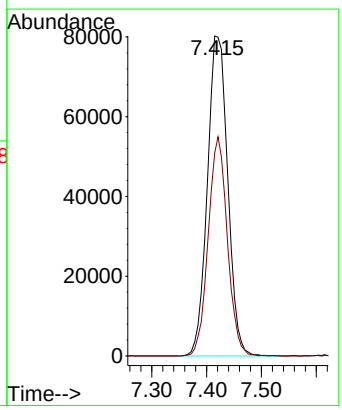
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

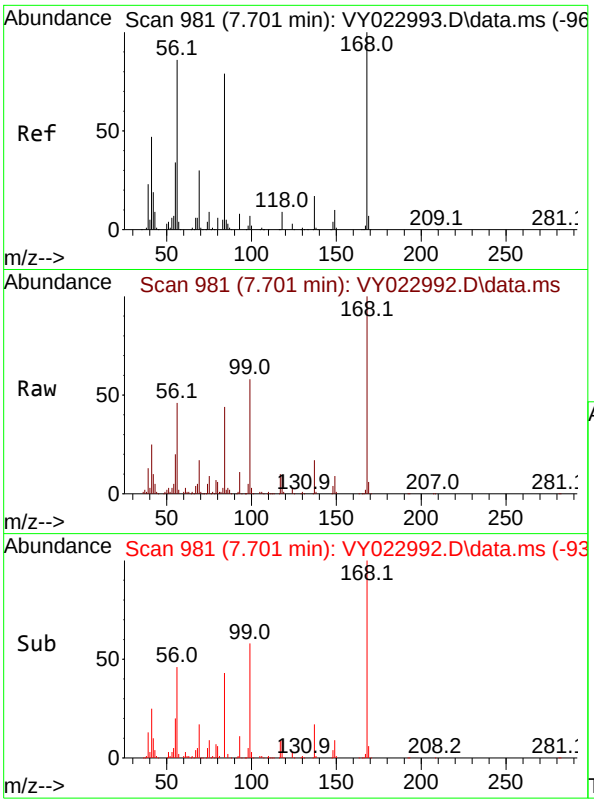


#30
Chloroform
Concen: 23.282 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 83 Resp: 207172

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.6	78.8

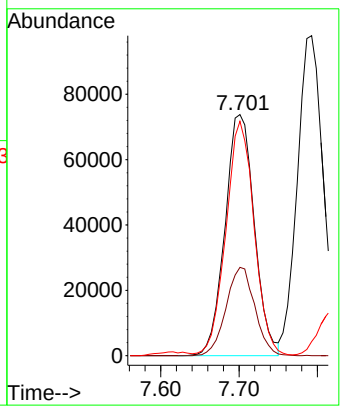




#31
Cyclohexane
Concen: 23.319 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 56 Resp: 19220

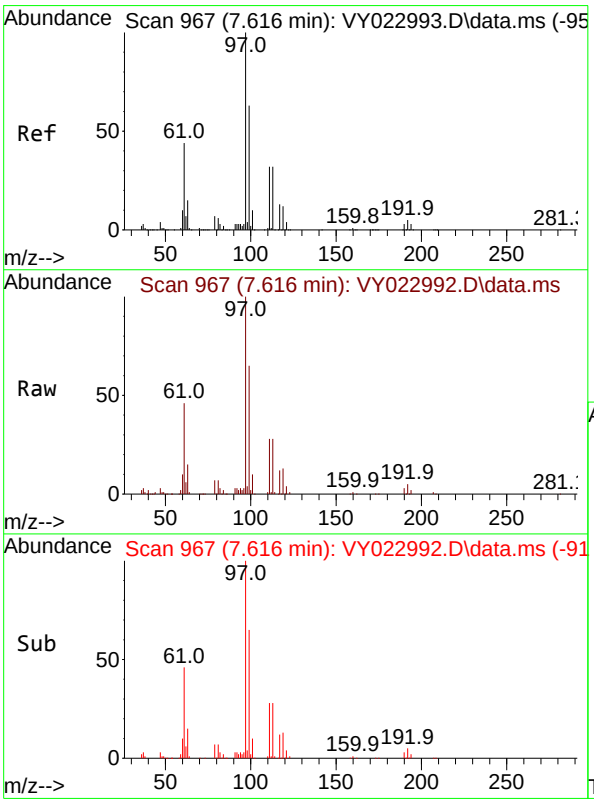
Ion	Ratio	Lower	Upper
56	100		
69	36.6	28.1	42.1
84	96.1	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

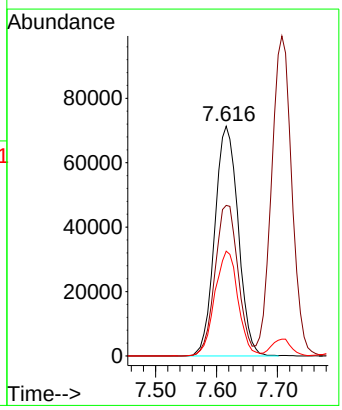
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

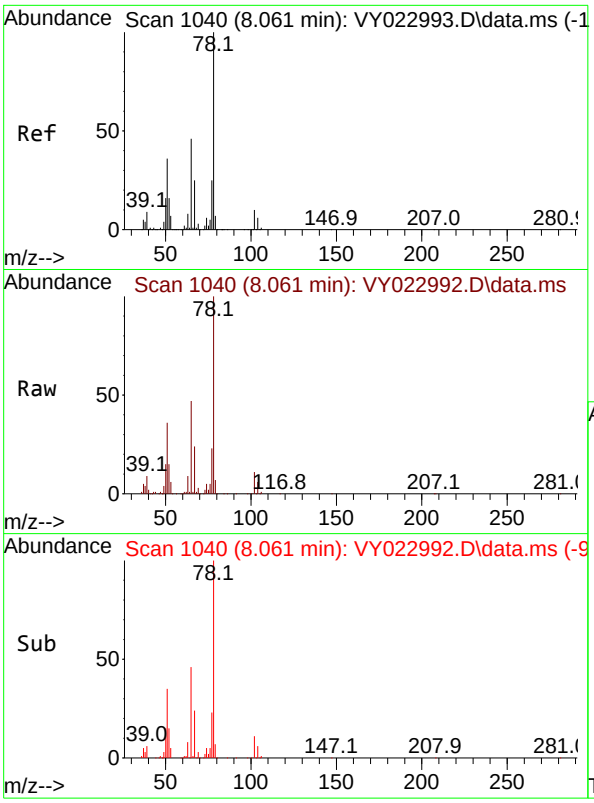


#32
1,1,1-Trichloroethane
Concen: 23.546 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 97 Resp: 190105

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	45.5	36.1	54.1





#33
1,2-Dichloroethane-d4
Concen: 23.248 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

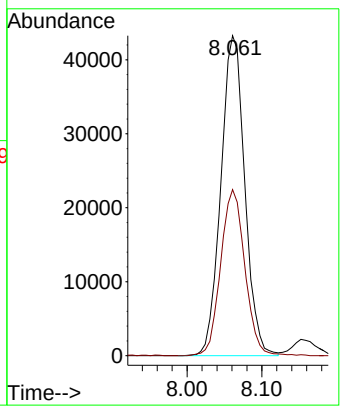
Tgt Ion: 65 Resp: 9623

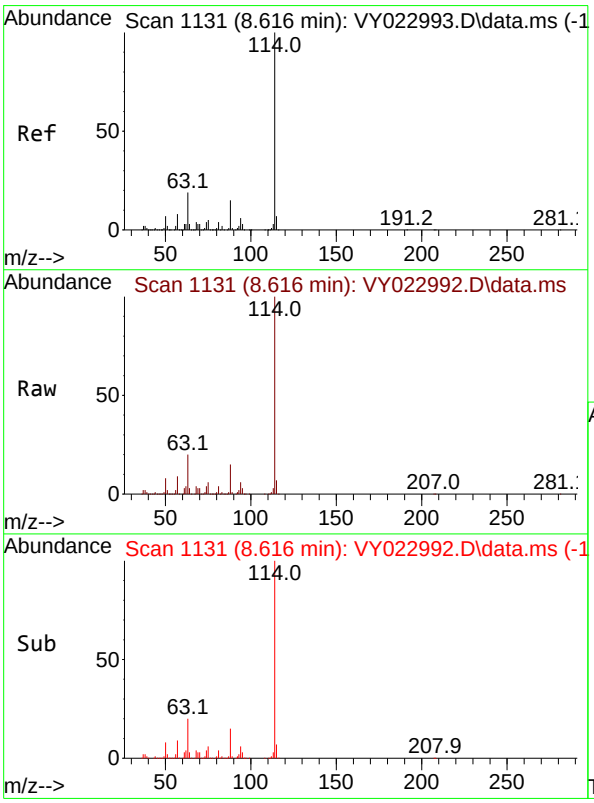
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

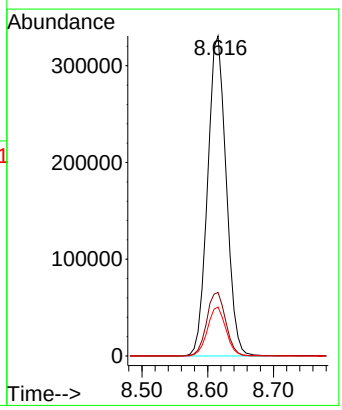


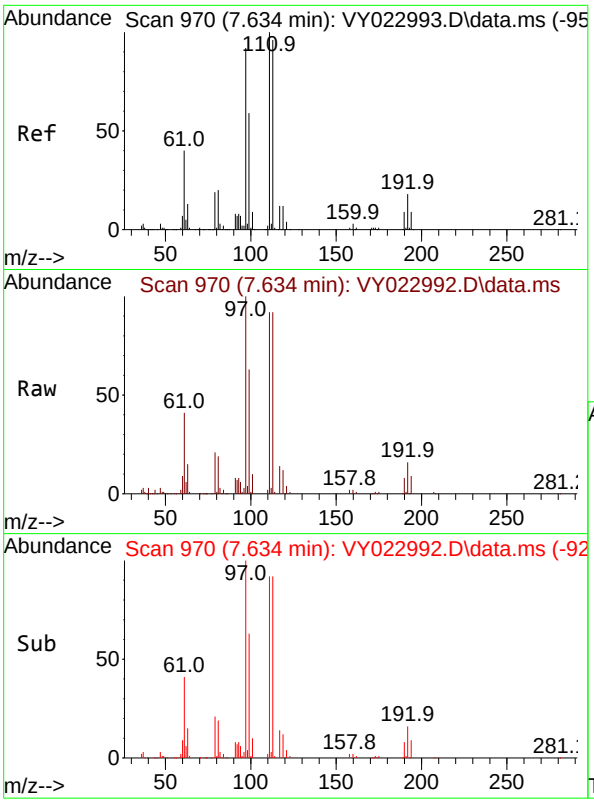


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:114 Resp: 651408

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	38.8
88	15.3	0.0	30.2

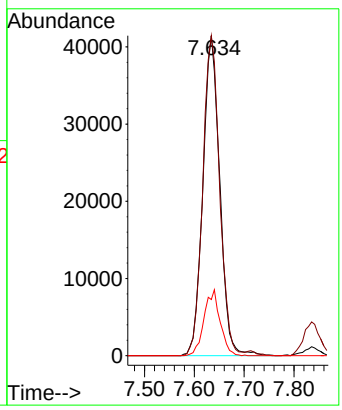




#35
Dibromofluoromethane
Concen: 23.589 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:113 Resp: 9747

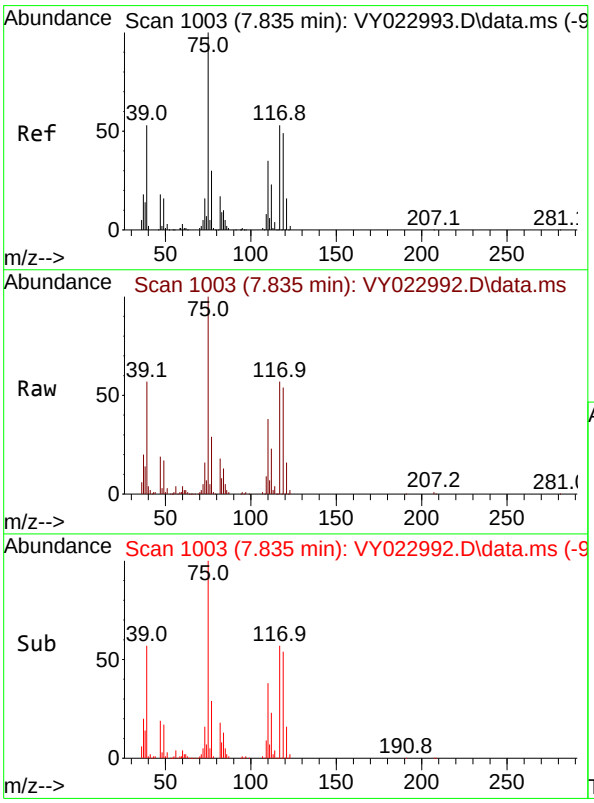
Ion	Ratio	Lower	Upper
113	100		
111	99.8	83.2	124.8
192	19.6	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

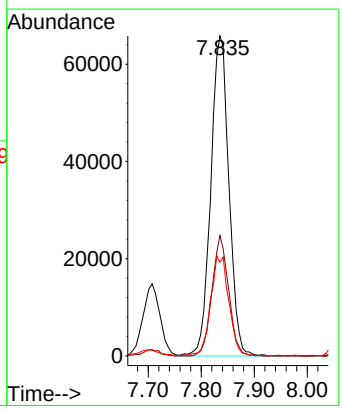
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

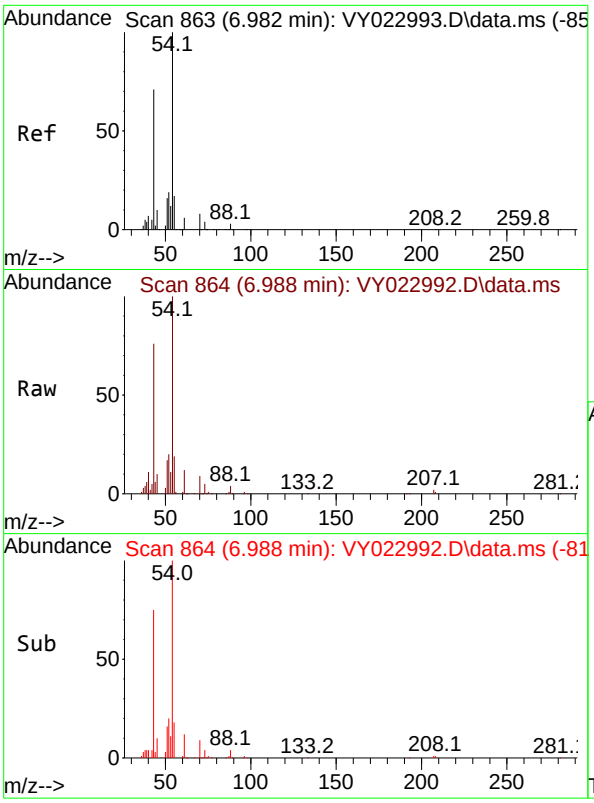


#36
1,1-Dichloropropene
Concen: 24.012 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 156287

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.3	51.9
77	31.4	24.6	37.0

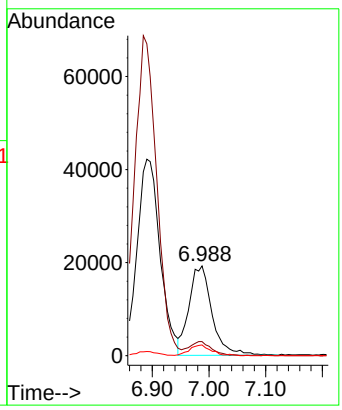




#37
Ethyl Acetate
Concen: 22.333 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 5398

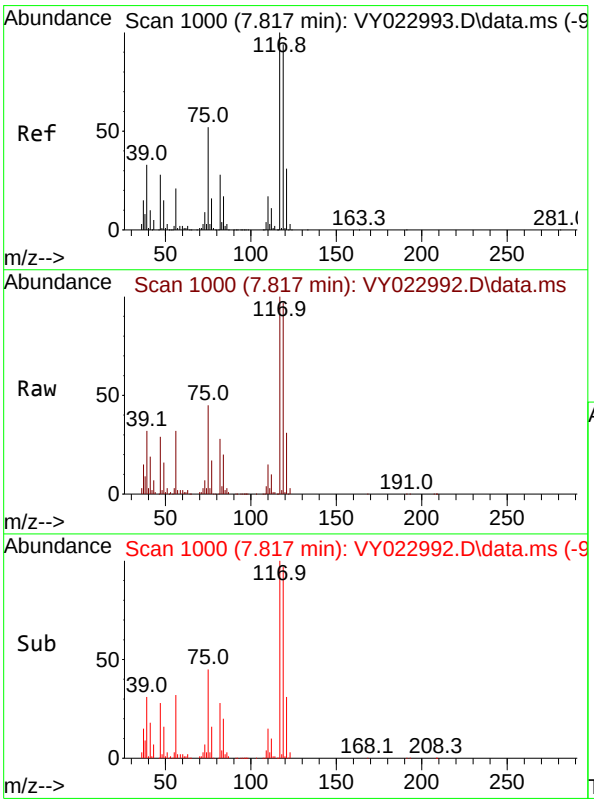
Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.6	17.4
70	10.1	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

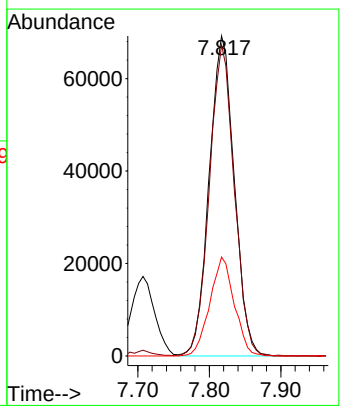
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

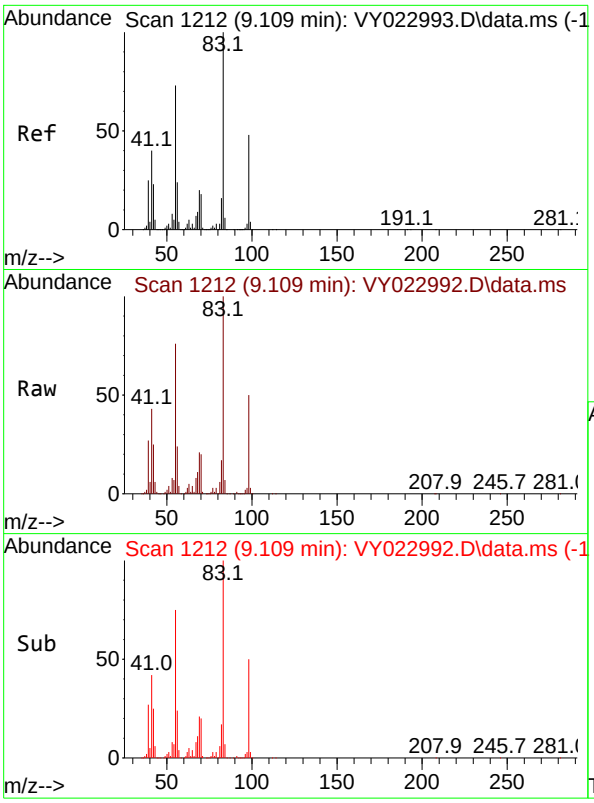


#38
Carbon Tetrachloride
Concen: 23.880 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:117 Resp: 168861

Ion	Ratio	Lower	Upper
117	100		
119	97.0	74.9	112.3
121	30.9	24.6	37.0





#39
Methylcyclohexane
Concen: 23.636 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

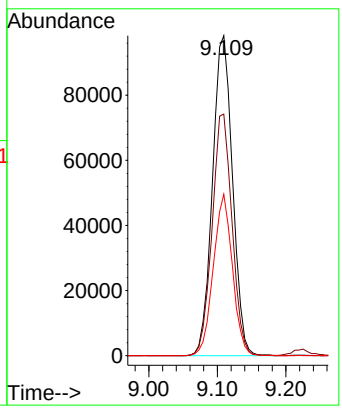
Tgt Ion: 83 Resp: 19912

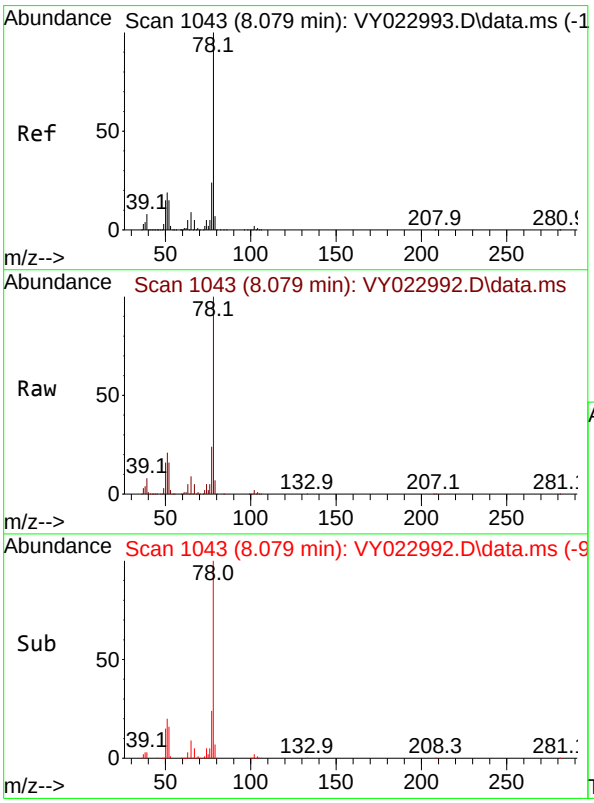
Ion	Ratio	Lower	Upper
83	100		
55	75.5	58.1	87.1
98	50.4	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

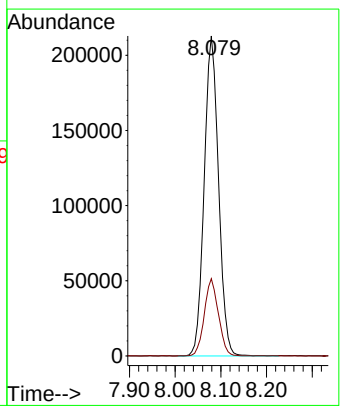


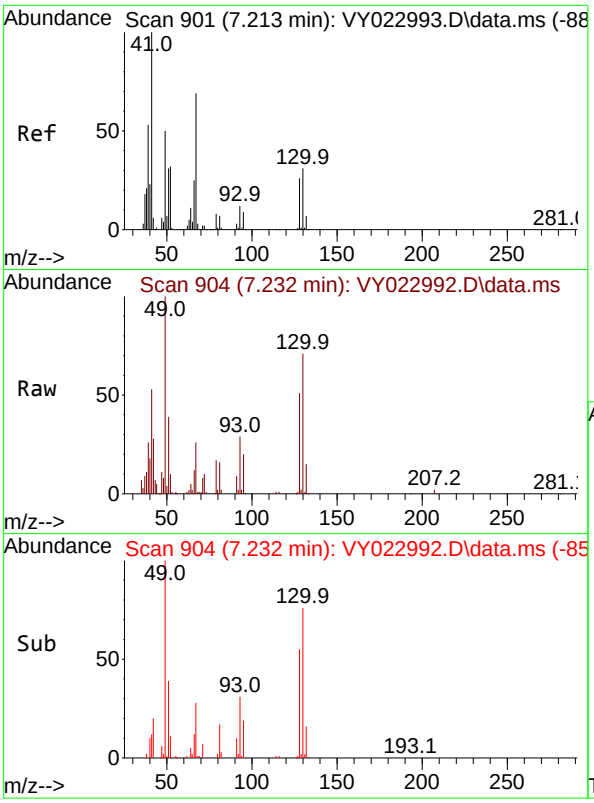


#40
Benzene
Concen: 23.613 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 78 Resp: 462756

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4

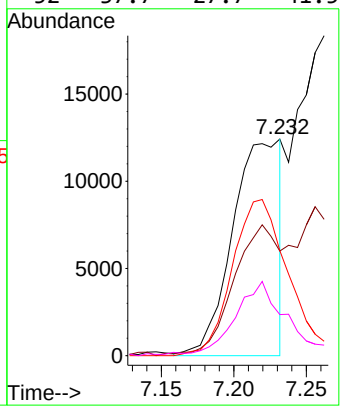




#41
Methacrylonitrile
Concen: 22.584 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.018 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 41 Resp: 2881

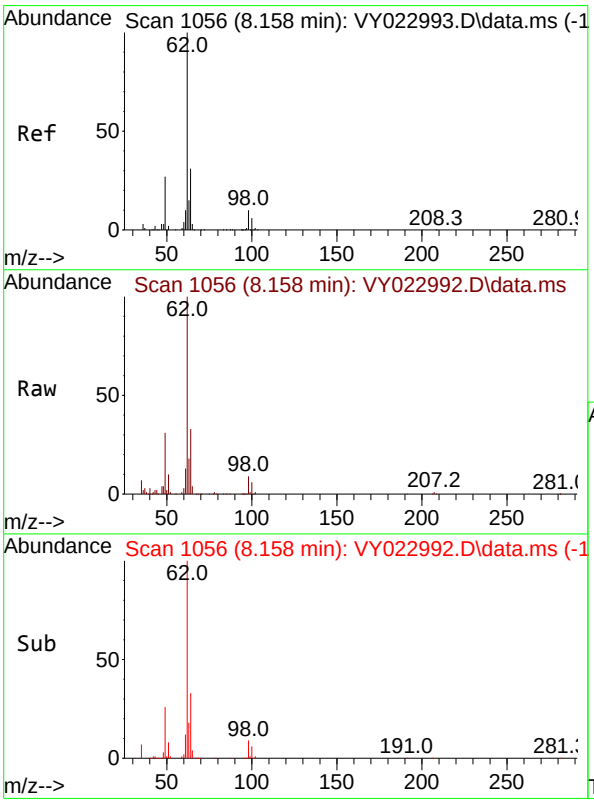
Ion	Ratio	Lower	Upper
41	100		
39	56.4	50.0	75.0
67	83.8	65.4	98.2
52	37.7	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

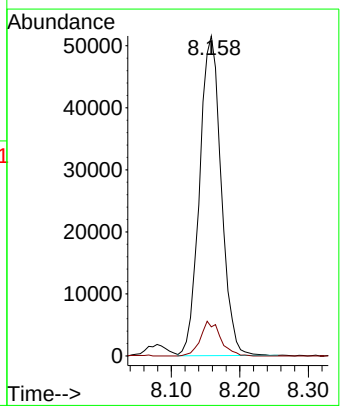
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

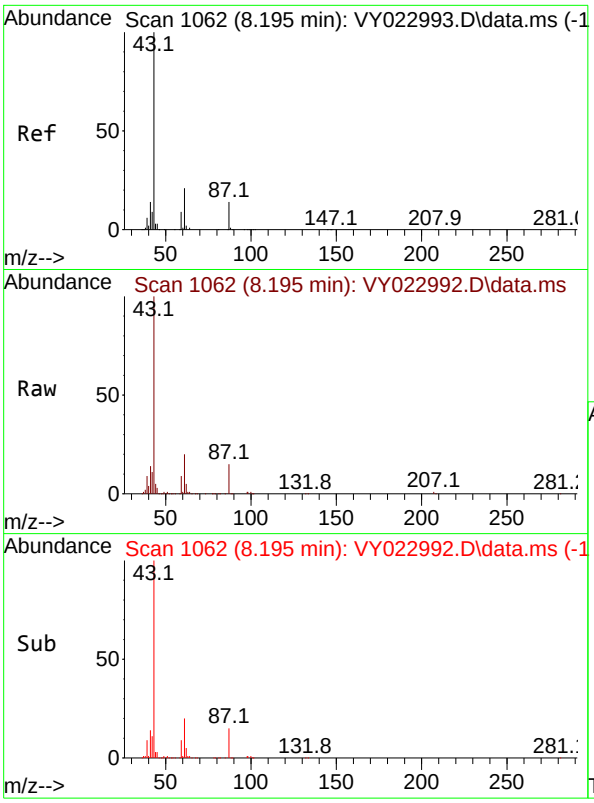


#42
1,2-Dichloroethane
Concen: 23.210 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 62 Resp: 113164

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.0

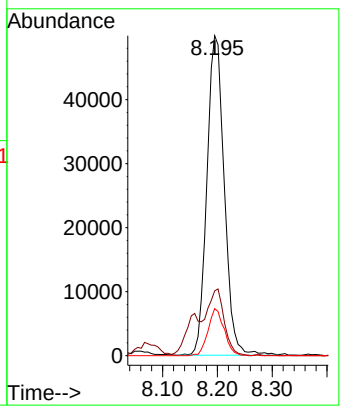




#43
Isopropyl Acetate
Concen: 22.853 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 10973

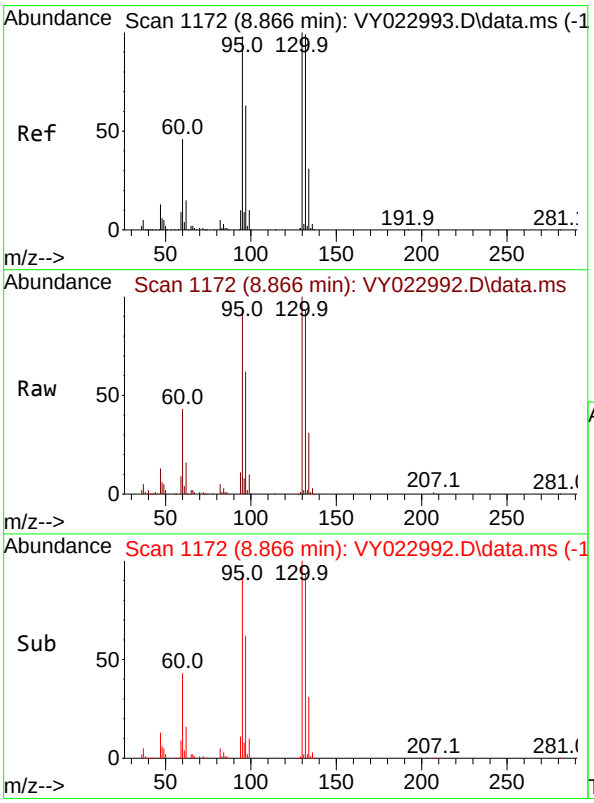
Ion	Ratio	Lower	Upper
43	100		
61	20.4	25.0	37.4
87	13.7	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

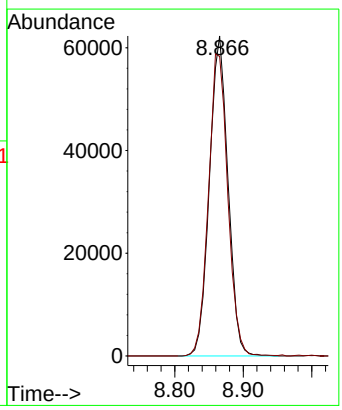
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

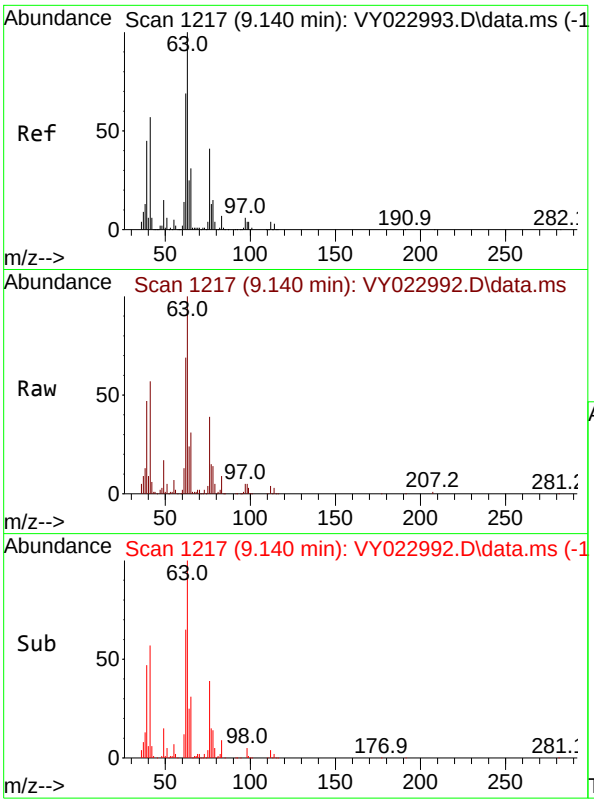


#44
Trichloroethene
Concen: 23.293 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:130 Resp: 117248

Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	195.8

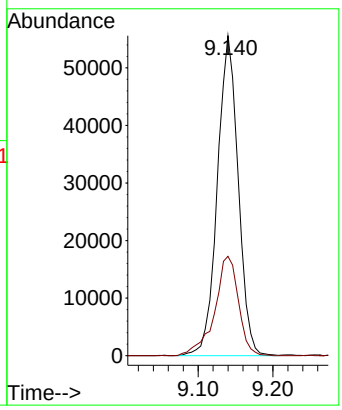




#45
1,2-Dichloropropane
Concen: 23.583 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 63 Resp: 10792

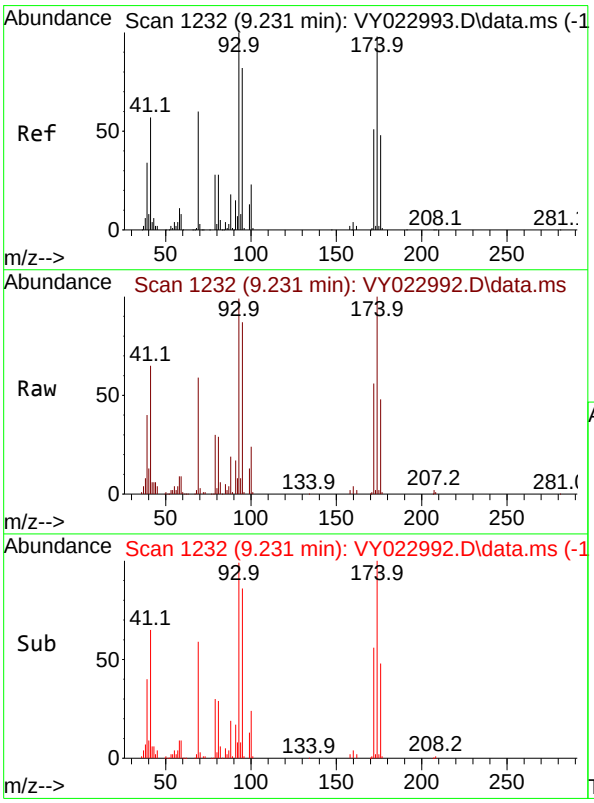
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

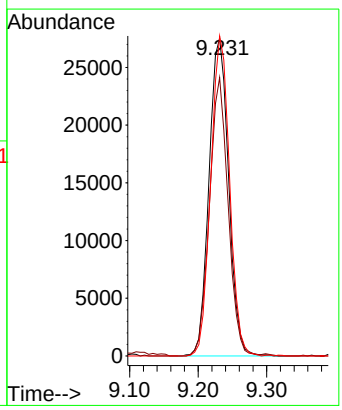
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

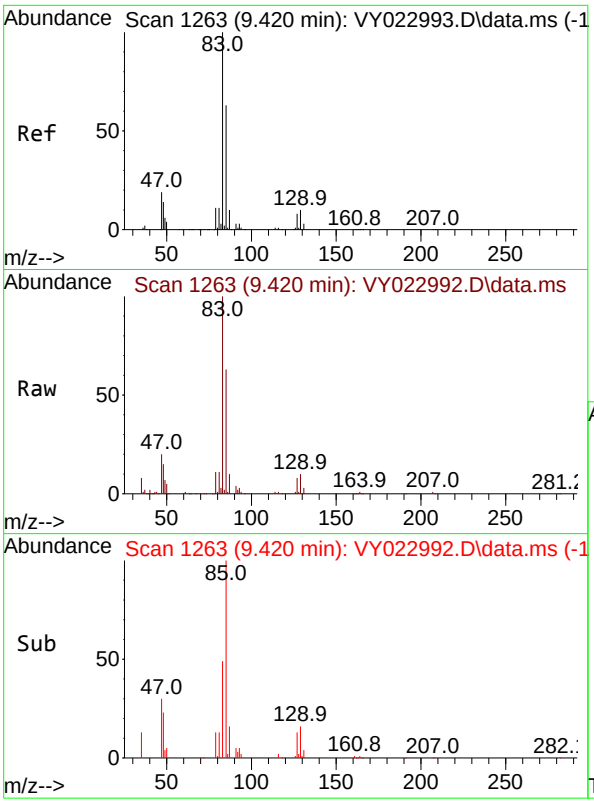


#46
Dibromomethane
Concen: 23.074 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 93 Resp: 54583

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.9	98.9
174	96.7	76.4	114.6

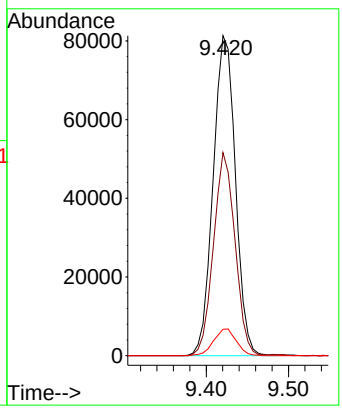




#47
Bromodichloromethane
Concen: 23.413 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 83 Resp: 15309

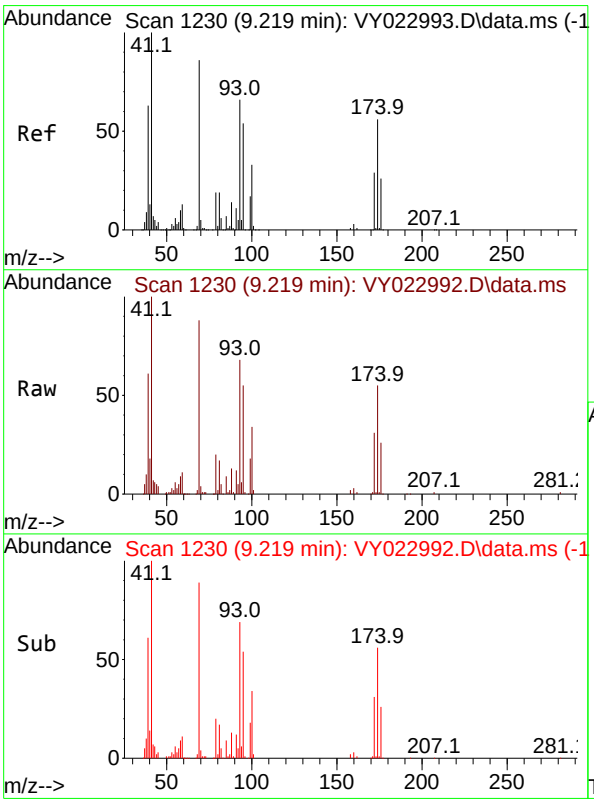
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	8.2	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

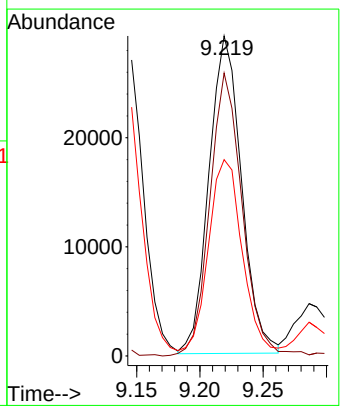
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

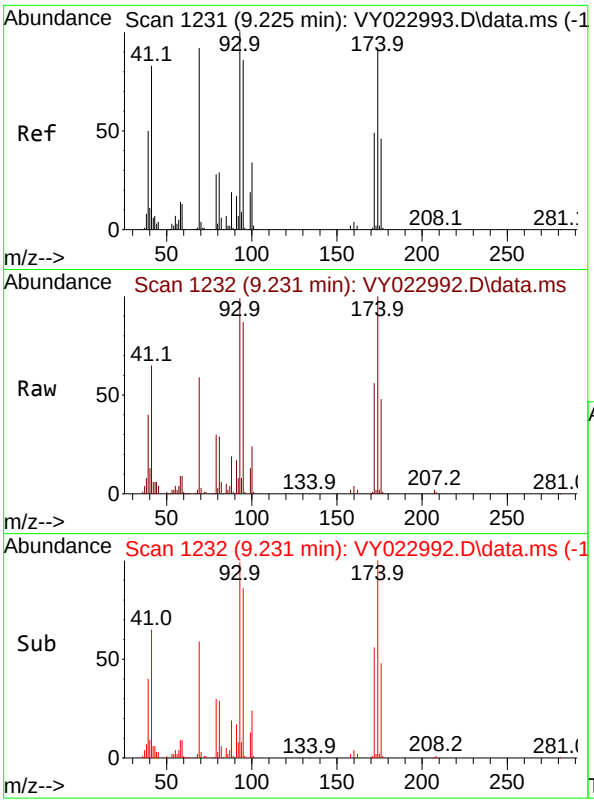


#48
Methyl methacrylate
Concen: 22.478 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 41 Resp: 52108

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	61.2	47.8	71.8

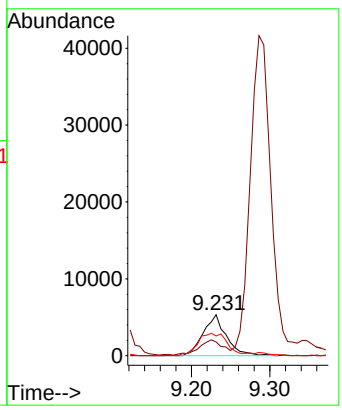




#49
1,4-Dioxane
Concen: 436.257 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 88 Resp: 1087

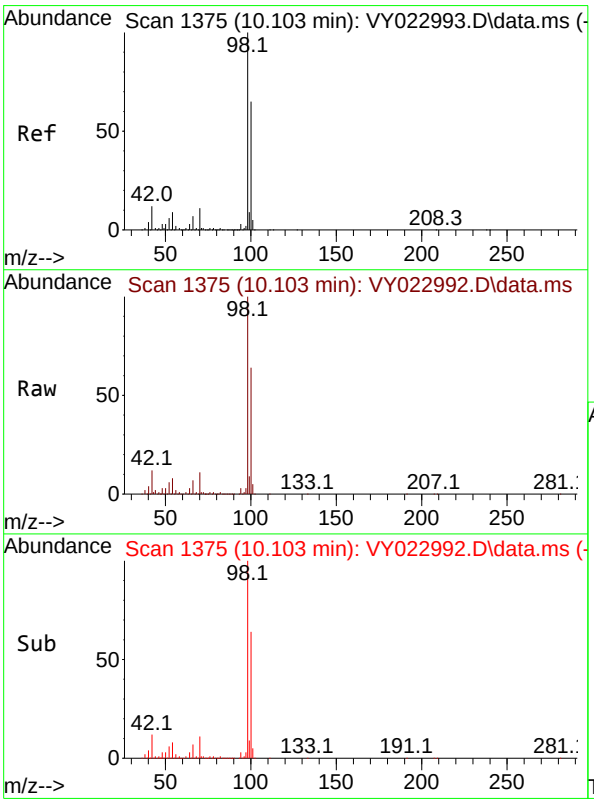
Ion	Ratio	Lower	Upper
88	100		
43	38.0	28.7	43.1
58	69.6	59.8	89.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

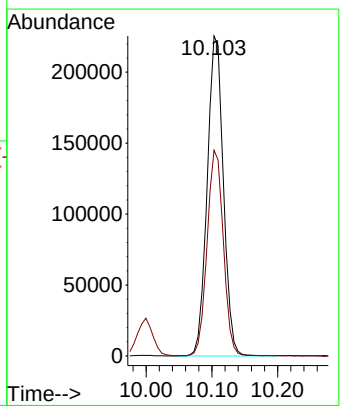
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

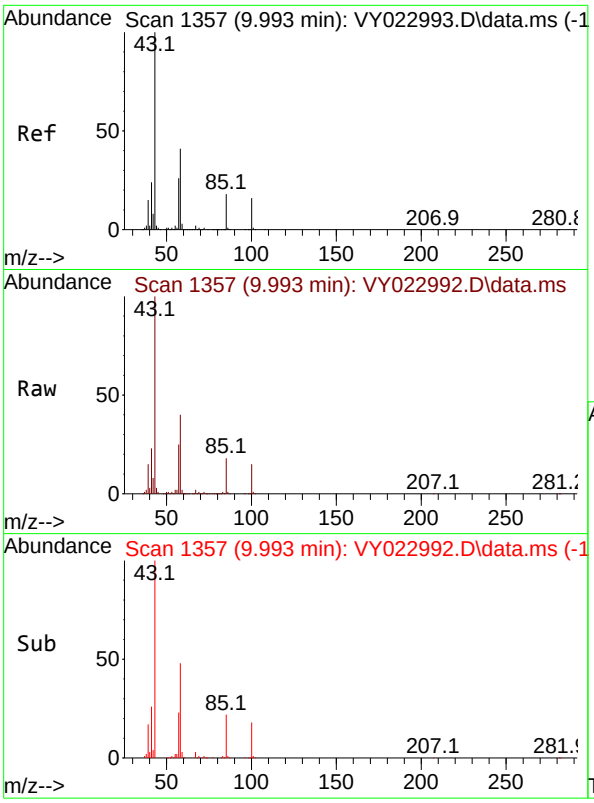


#50
Toluene-d8
Concen: 23.556 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 98 Resp: 385999

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2

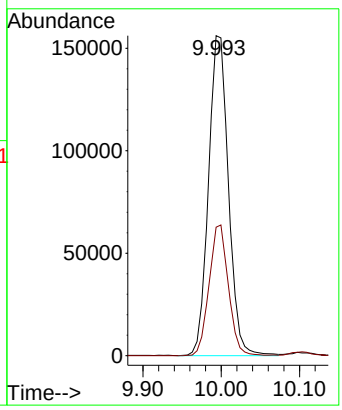




#51
4-Methyl-2-Pentanone
Concen: 113.395 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 27636

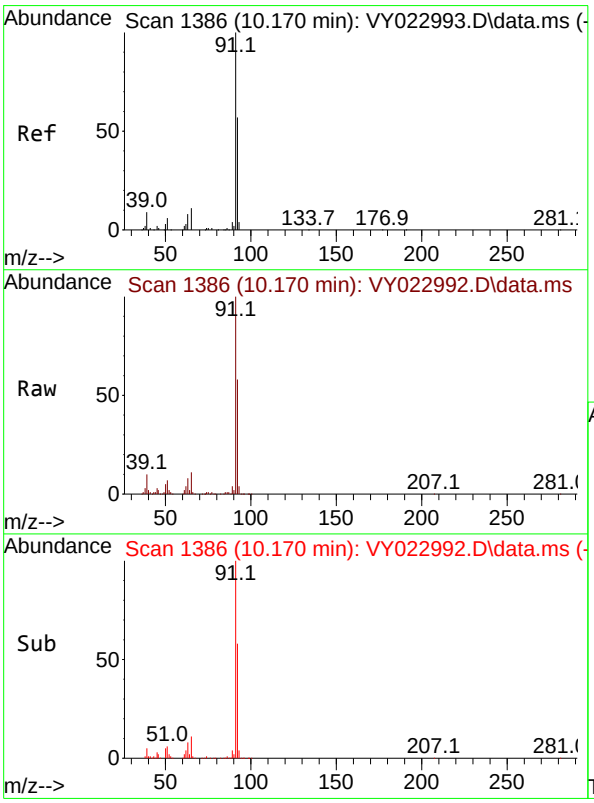
Ion	Ratio	Lower	Upper
43	100		
58	39.5	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

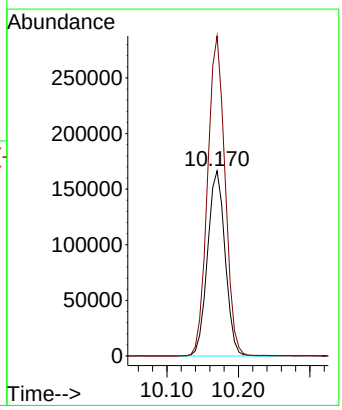
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

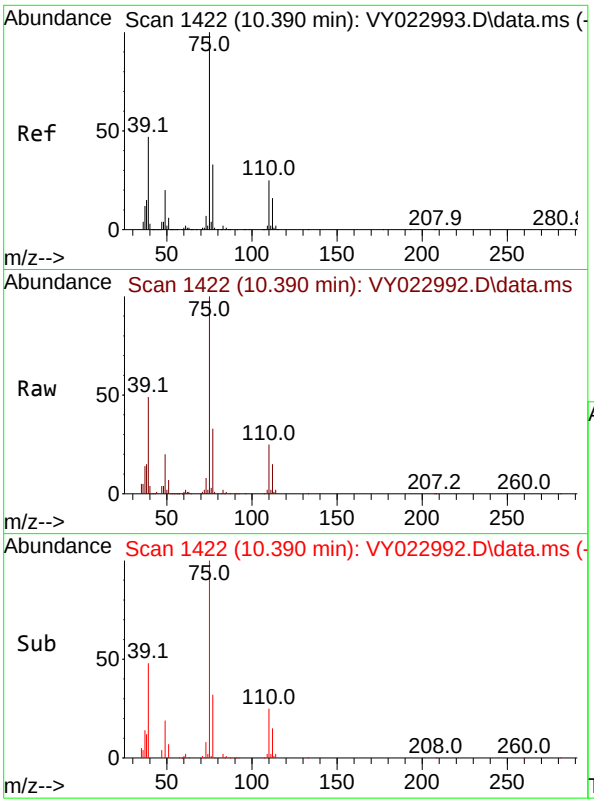


#52
Toluene
Concen: 23.265 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 92 Resp: 283471

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.8	206.6

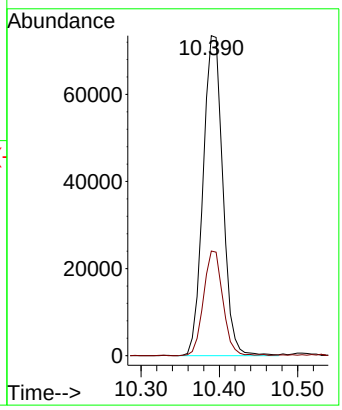




#53
t-1,3-Dichloropropene
Concen: 22.870 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 12836

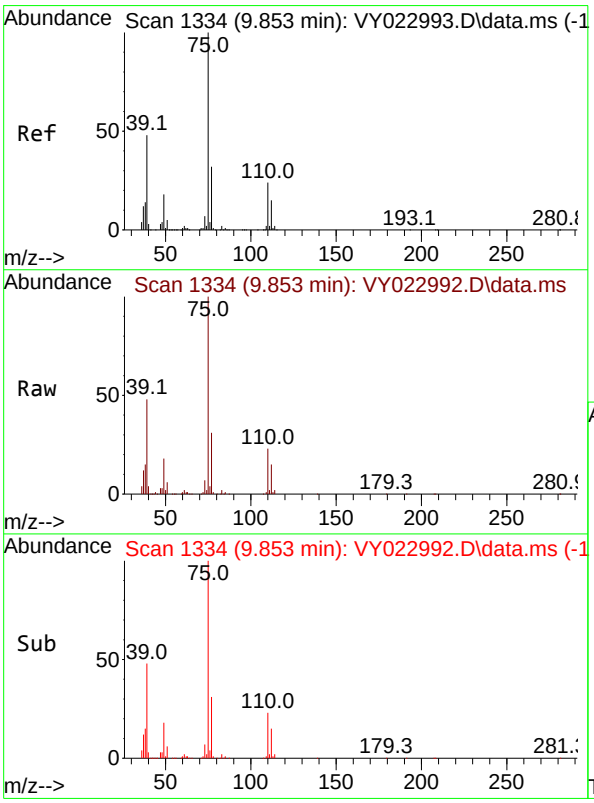
Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

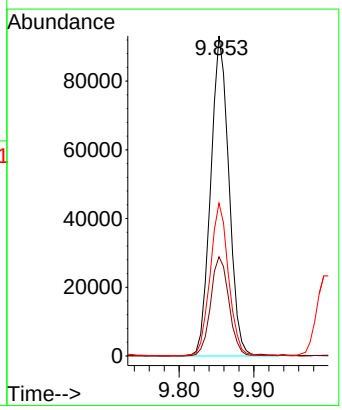
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

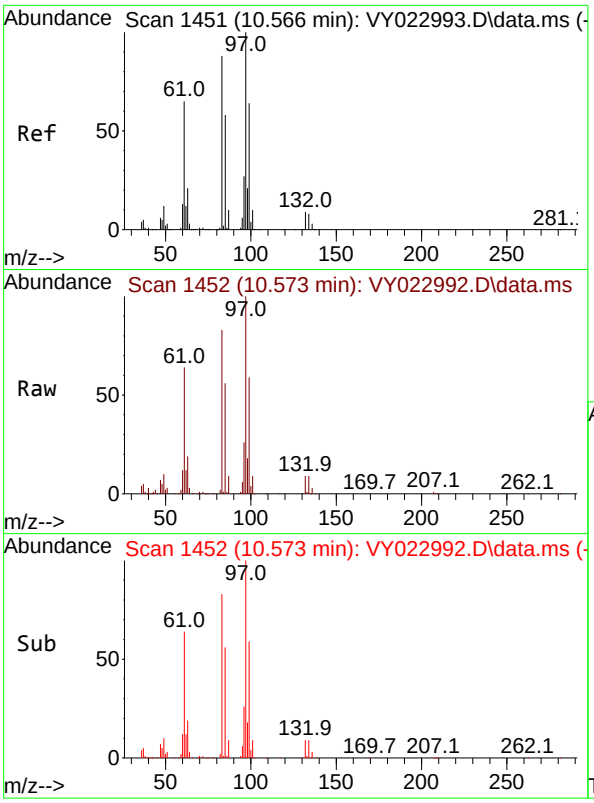


#54
cis-1,3-Dichloropropene
Concen: 23.288 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 157554

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0
39	47.6	38.2	57.2

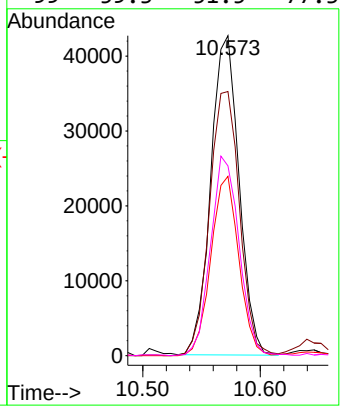




#55
1,1,2-Trichloroethane
Concen: 22.955 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 97 Resp: 7137

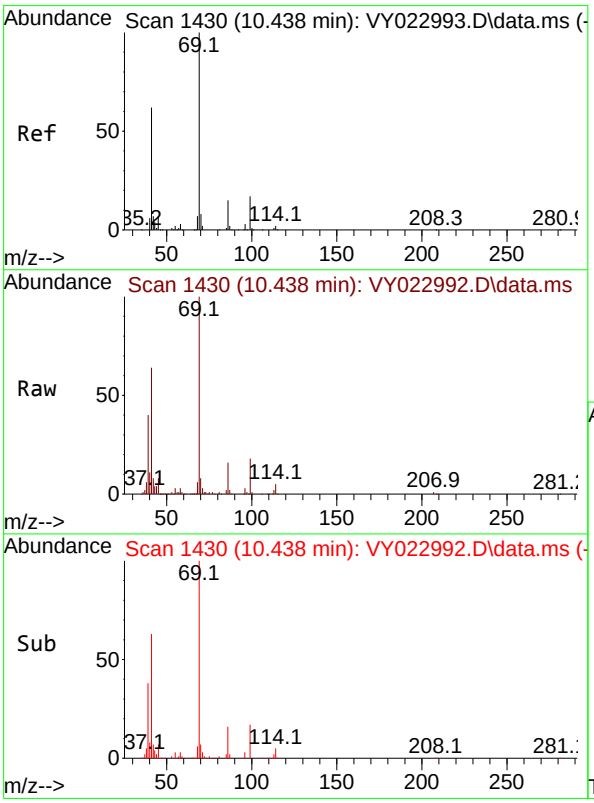
Ion	Ratio	Lower	Upper
97	100		
83	82.7	70.2	105.2
85	56.2	46.2	69.2
99	59.3	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

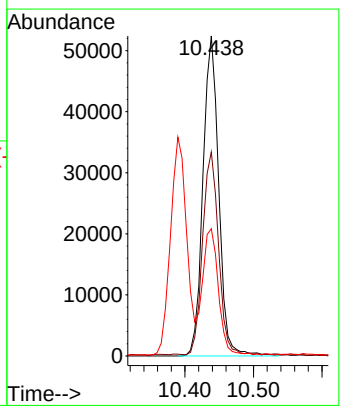
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

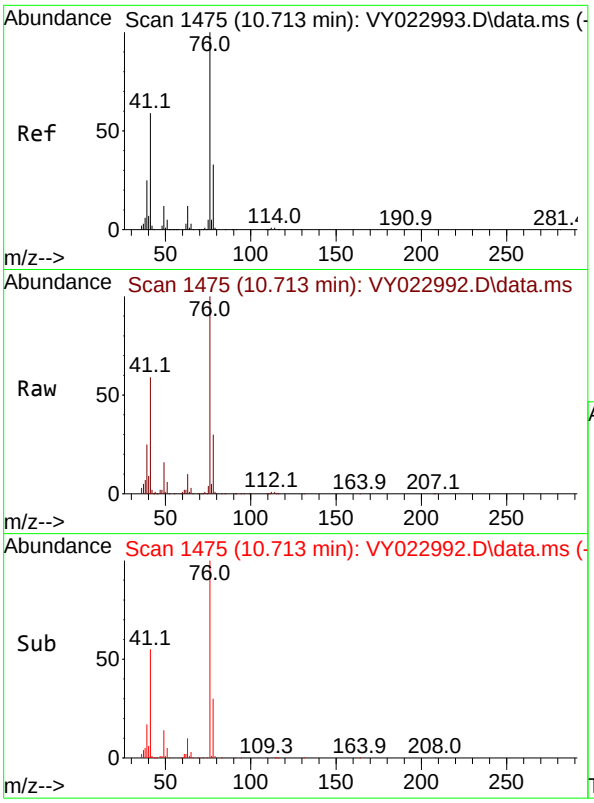


#56
Ethyl methacrylate
Concen: 21.644 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 69 Resp: 84006

Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.0	76.4
39	39.8	30.6	46.0





#57
1,3-Dichloropropane
Concen: 23.129 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

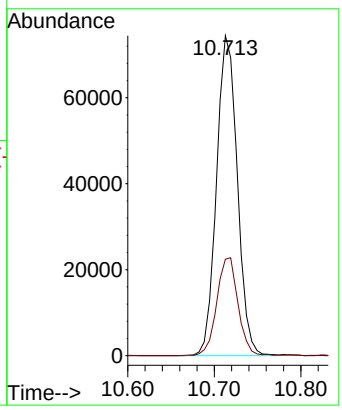
Tgt Ion: 76 Resp: 12422

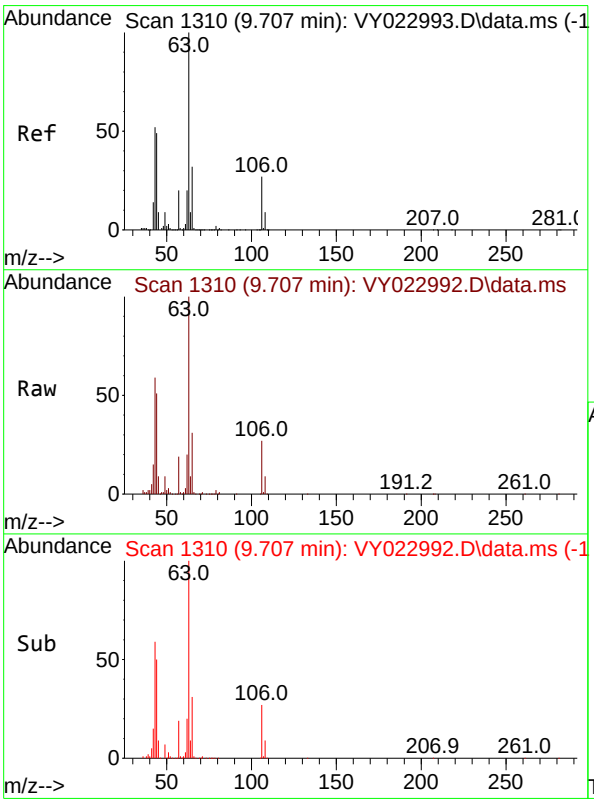
Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

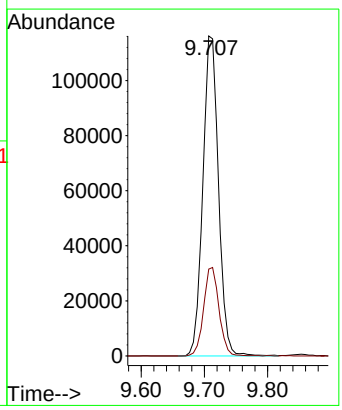


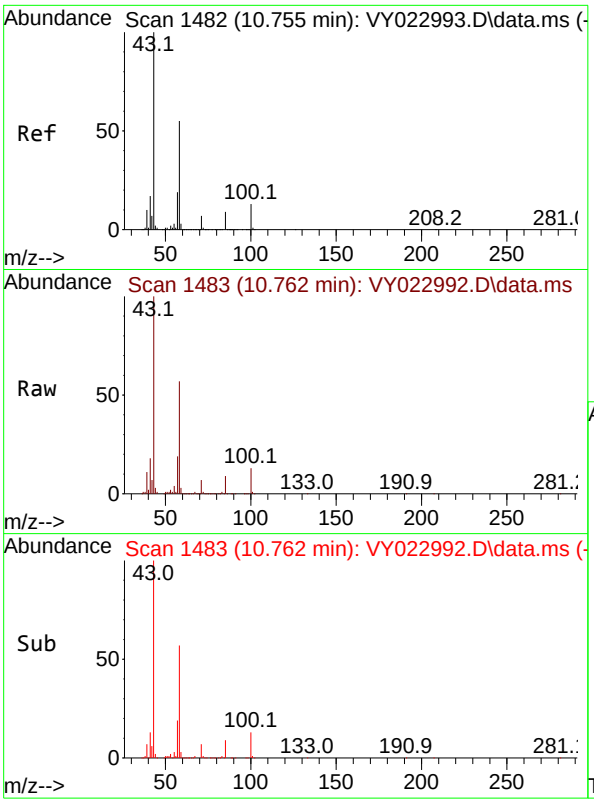


#58
2-Chloroethyl Vinyl ether
Concen: 105.265 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 63 Resp: 199993

Ion	Ratio	Lower	Upper
63	100		
106	27.2	22.6	33.8





#59
2-Hexanone
Concen: 110.226 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

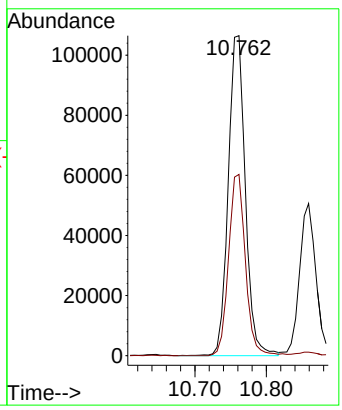
Tgt Ion: 43 Resp: 17658

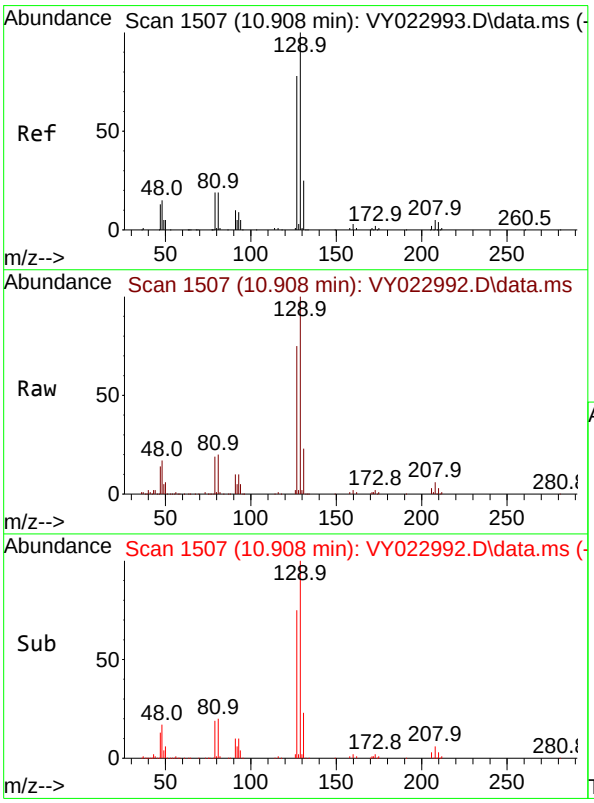
Ion	Ratio	Lower	Upper
43	100		
58	55.9	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

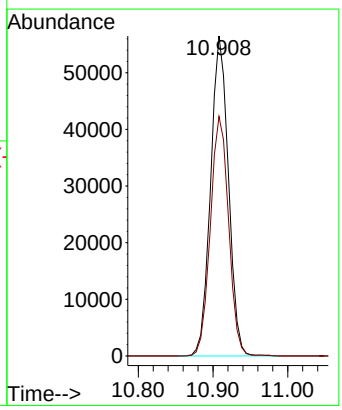


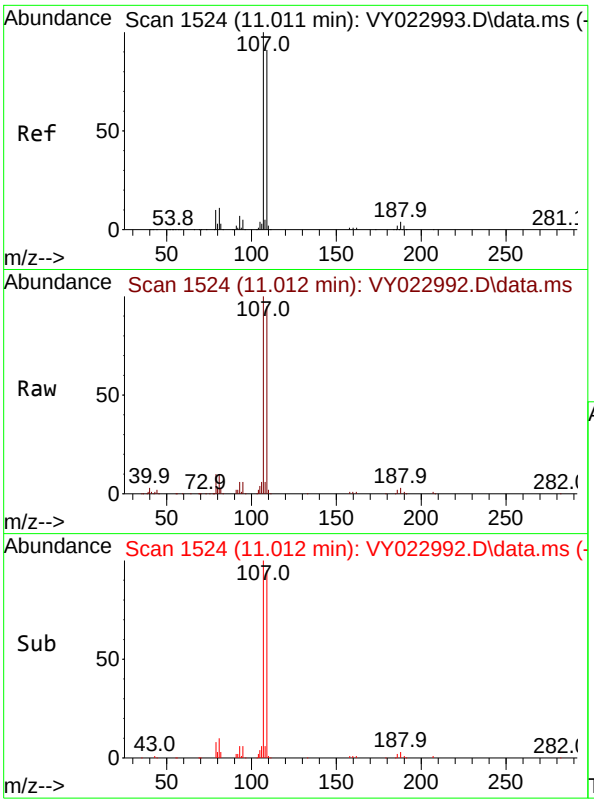


#60
Dibromochloromethane
Concen: 22.990 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:129 Resp: 93599

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.7	116.1

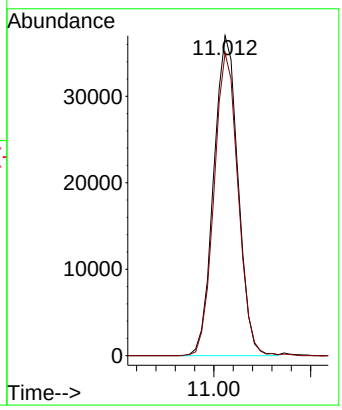




#61
1,2-Dibromoethane
Concen: 22.880 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:107 Resp: 6460

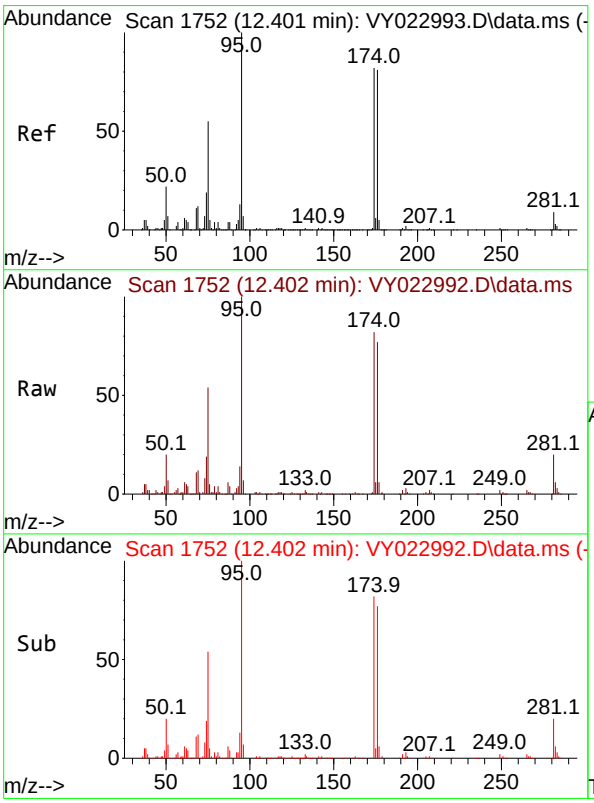
Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

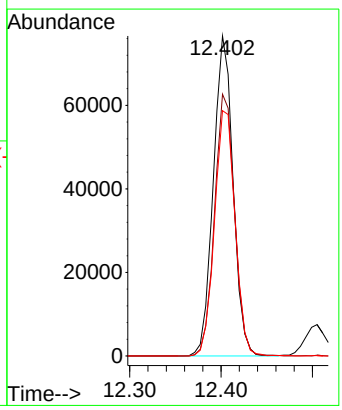
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

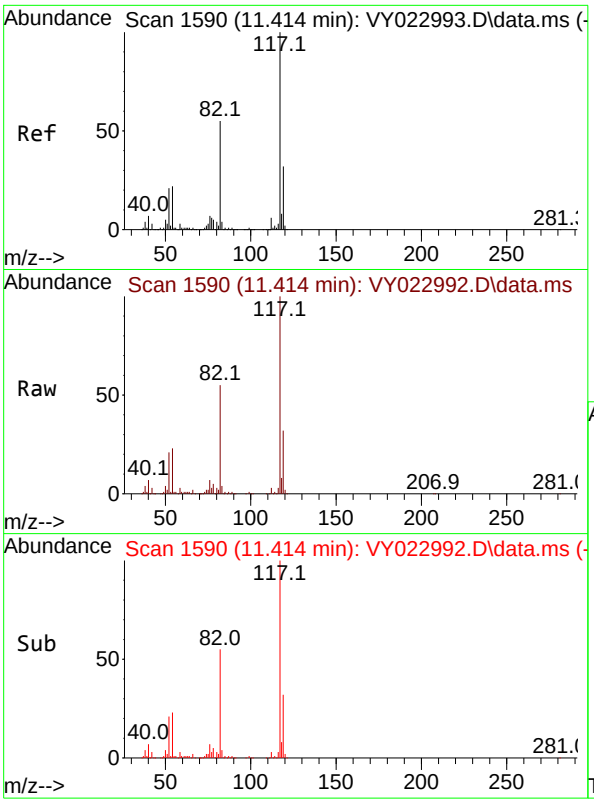


#62
4-Bromofluorobenzene
Concen: 22.270 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 95 Resp: 114873

Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	170.8
176	80.0	0.0	163.6

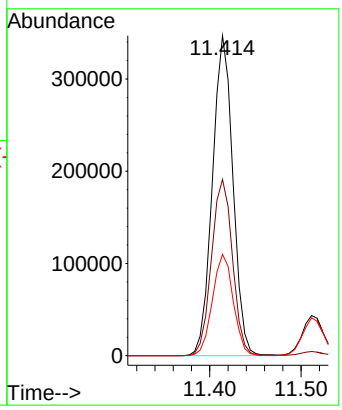




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:117 Resp: 54173

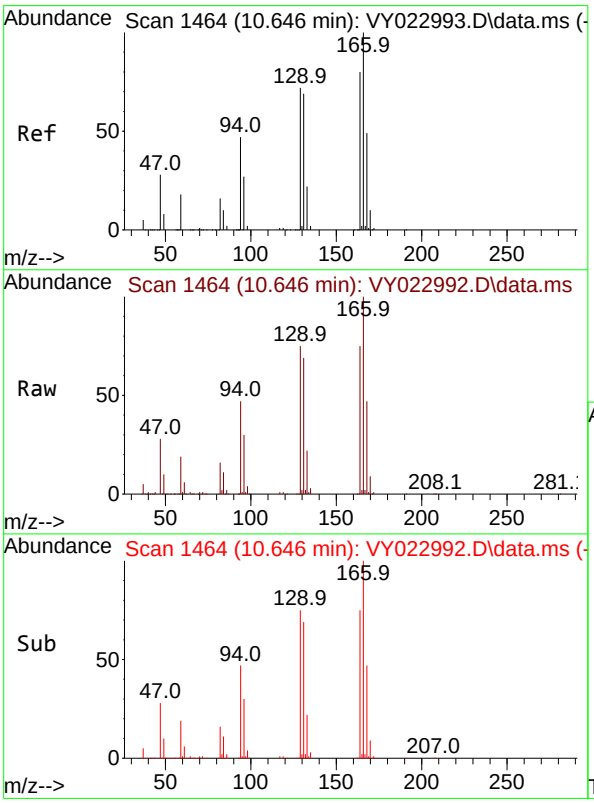
Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.3	66.5
119	31.7	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

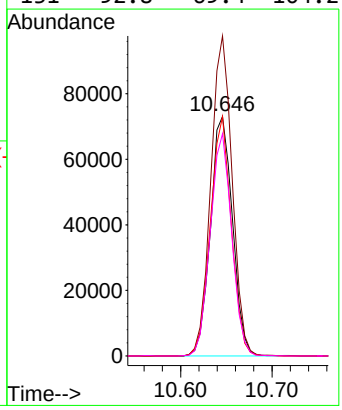
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

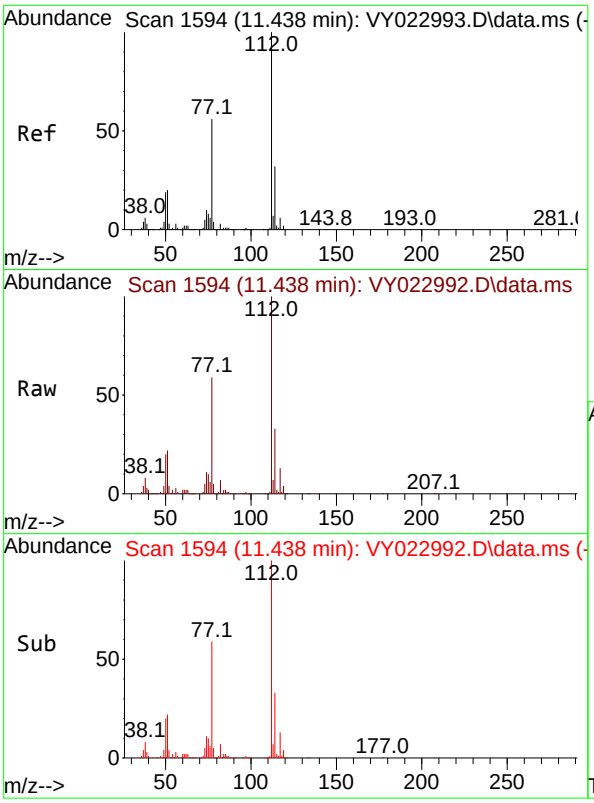


#64
Tetrachloroethene
Concen: 22.057 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:164 Resp: 122138

Ion	Ratio	Lower	Upper
164	100		
166	133.6	100.2	150.2
129	99.9	71.7	107.5
131	92.8	69.4	104.2

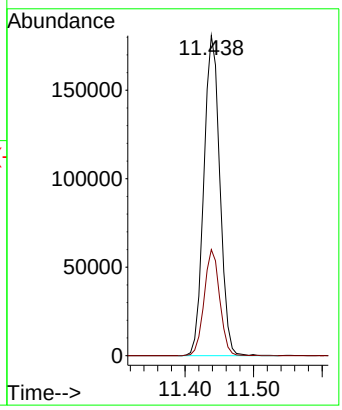




#65
Chlorobenzene
Concen: 22.989 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:112 Resp: 29387

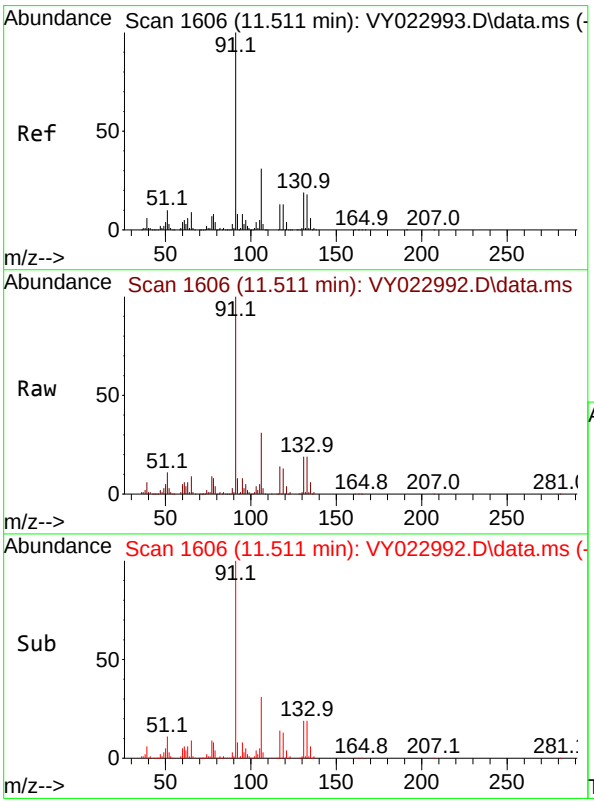
Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

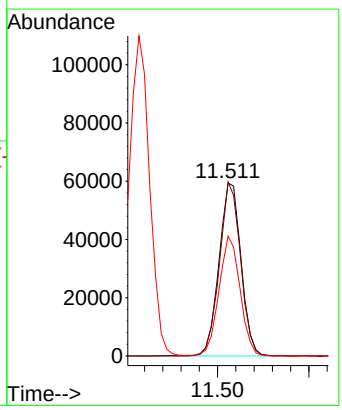
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

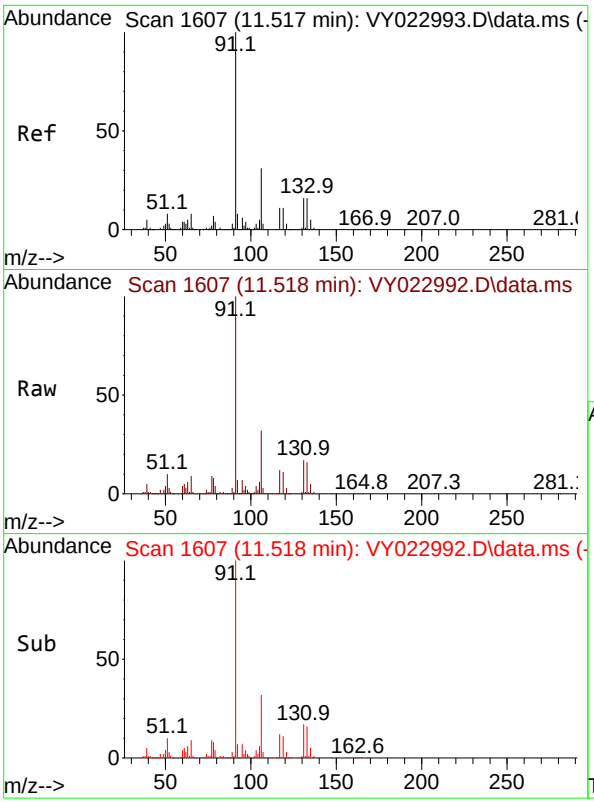


#66
1,1,1,2-Tetrachloroethane
Concen: 22.732 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:131 Resp: 99114

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.8	143.3
119	66.6	33.3	99.8

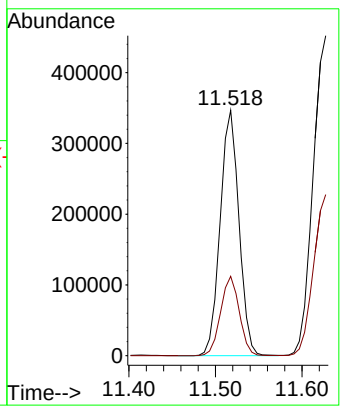




#67
Ethyl Benzene
Concen: 23.080 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 91 Resp: 52295

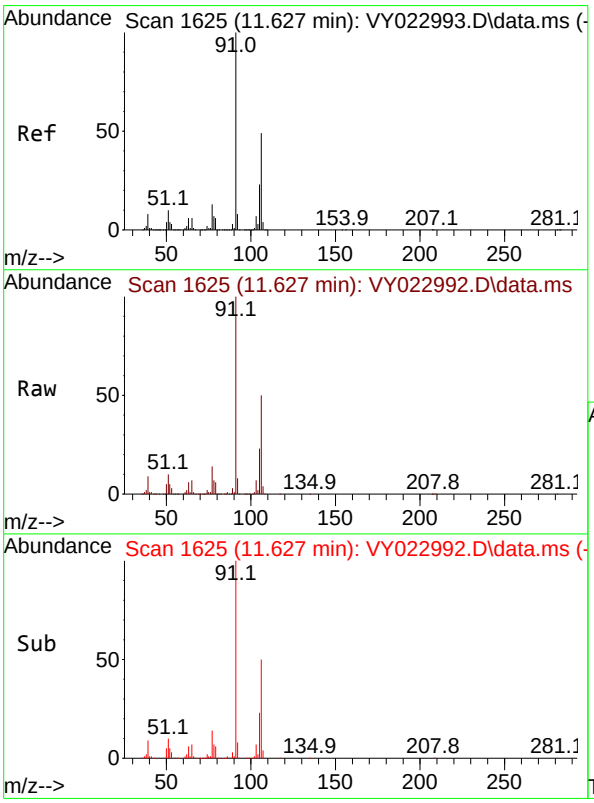
Ion	Ratio	Lower	Upper
91	100		
106	32.4	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

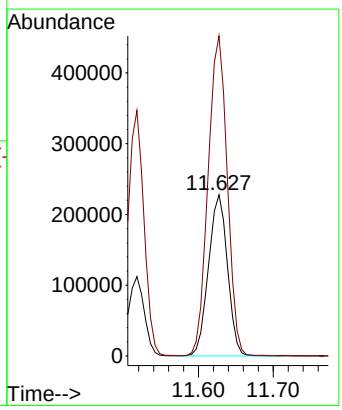
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

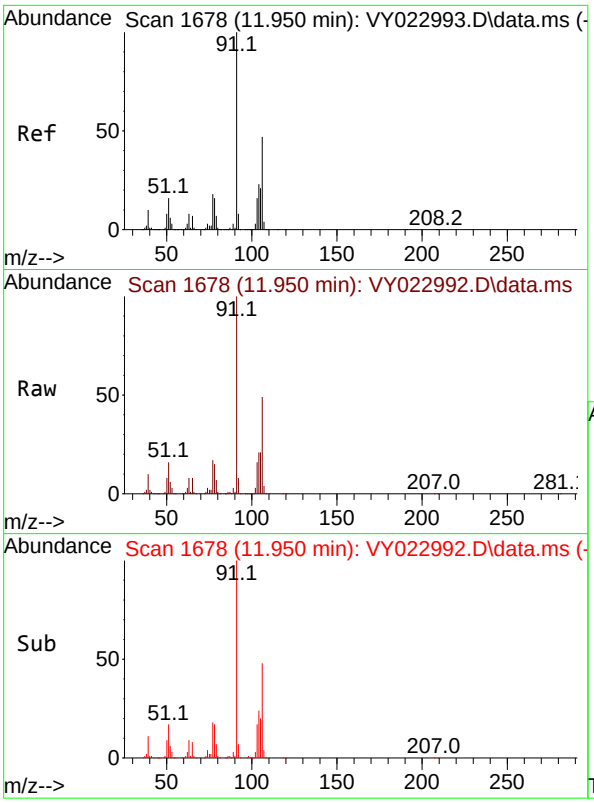


#68
m/p-Xylenes
Concen: 46.261 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:106 Resp: 402055

Ion	Ratio	Lower	Upper
106	100		
91	201.1	159.8	239.8





#69
o-Xylene
Concen: 23.067 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

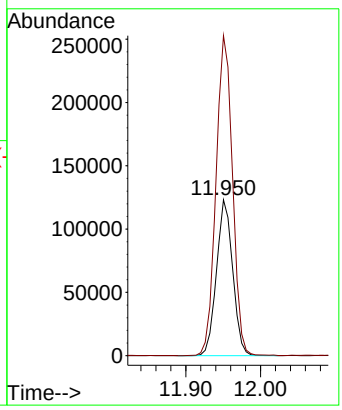
Tgt Ion:106 Resp: 18604

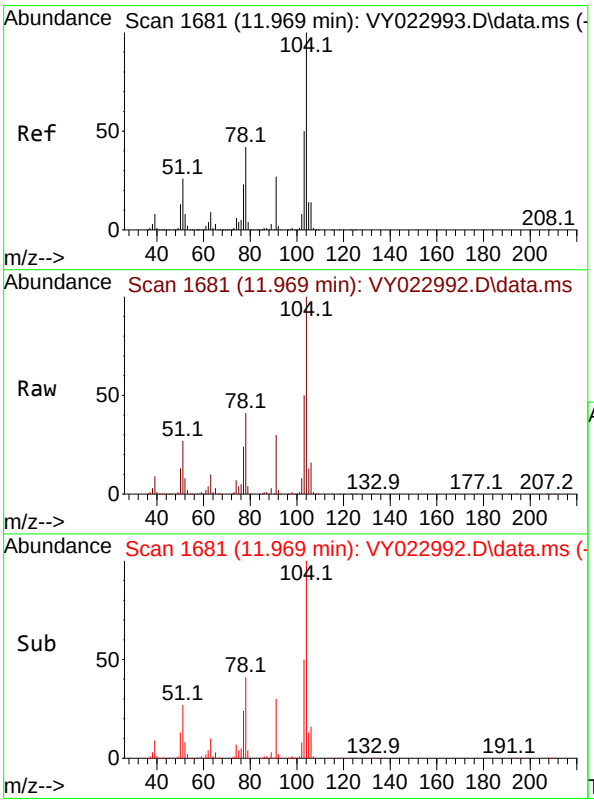
Ion	Ratio	Lower	Upper
106	100		
91	209.5	106.3	318.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

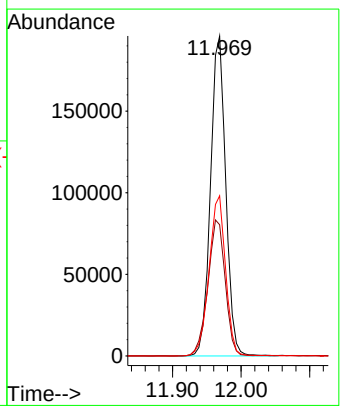


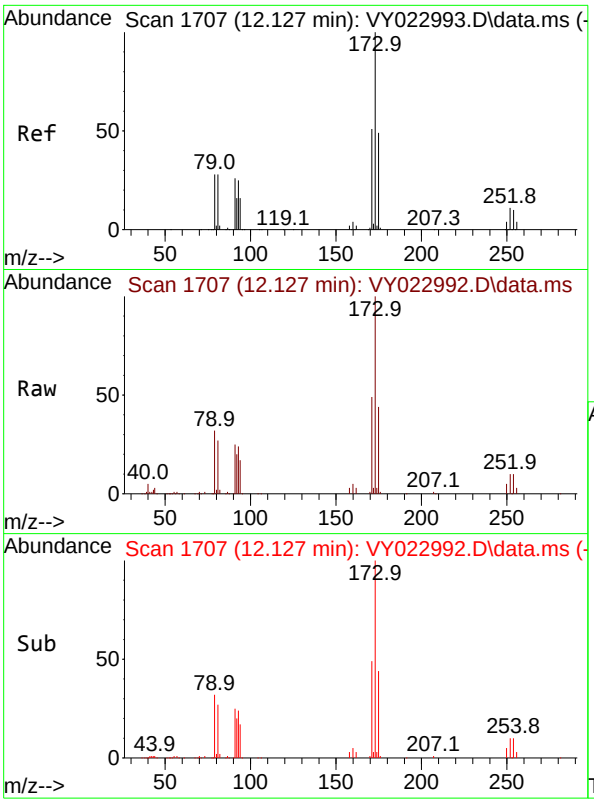


#70
Styrene
Concen: 22.952 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:104 Resp: 303236

Ion	Ratio	Lower	Upper
104	100		
78	48.4	39.0	58.6
103	54.4	43.7	65.5

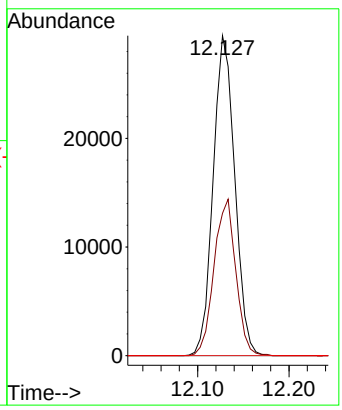




#71
Bromoform
Concen: 21.879 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:173 Resp: 4842

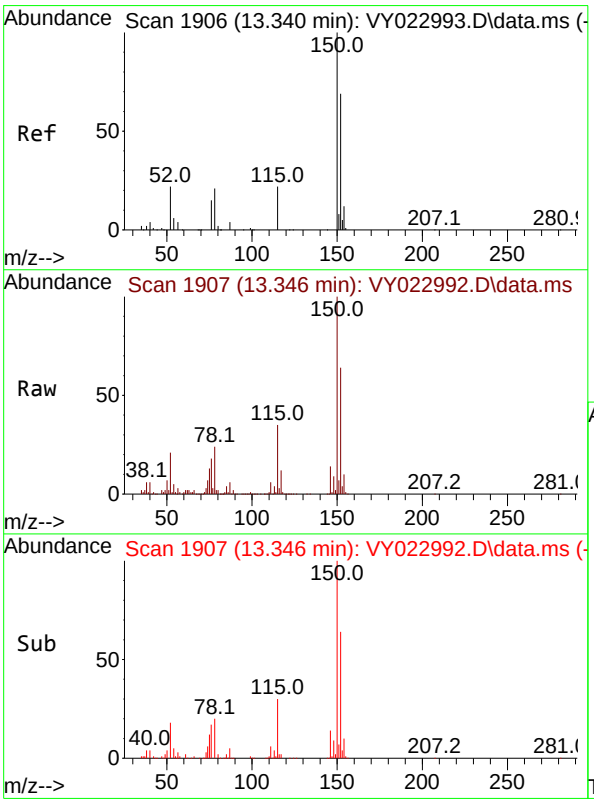
Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

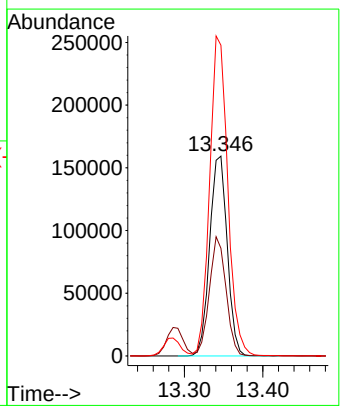
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

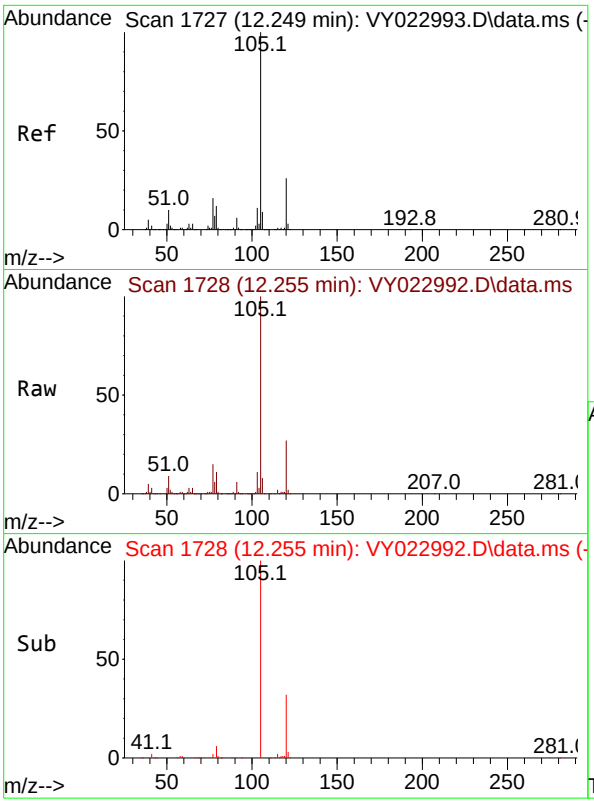


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:152 Resp: 248244

Ion	Ratio	Lower	Upper
152	100		
115	56.4	29.4	88.2
150	164.8	0.0	350.0

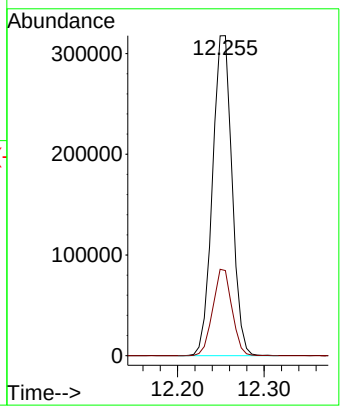




#73
Isopropylbenzene
Concen: 23.656 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:105 Resp: 49788

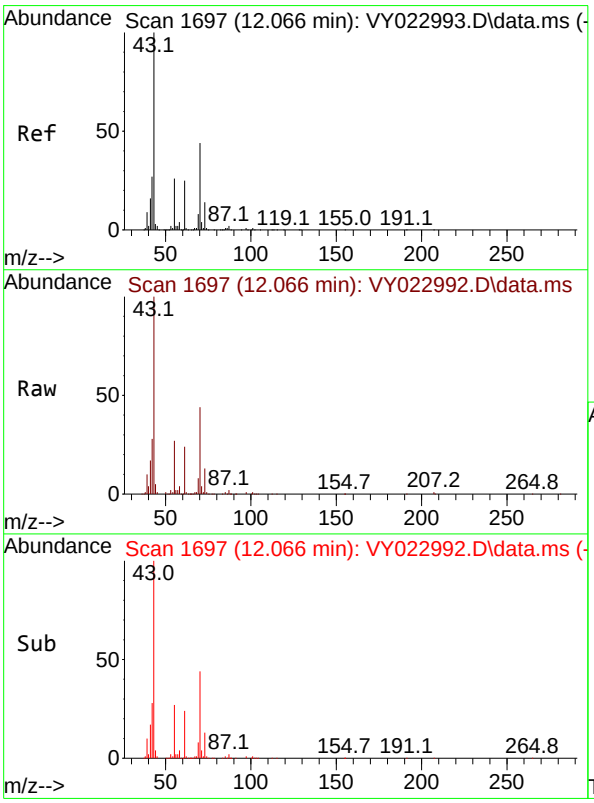
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

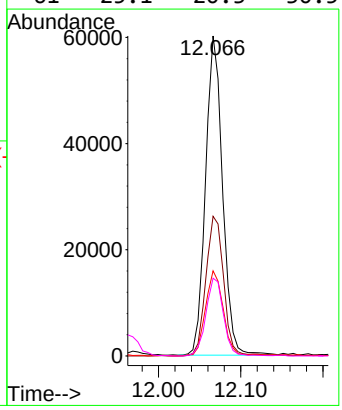
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

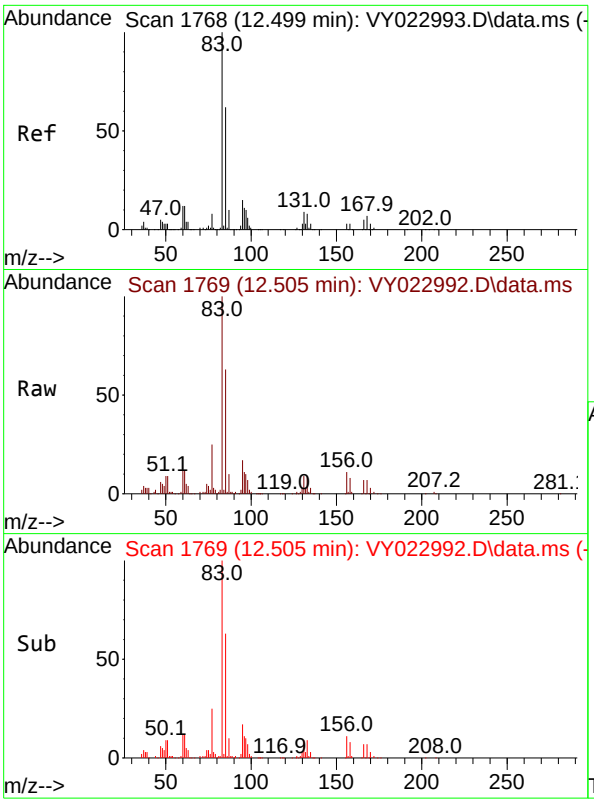


#74
N-amyl acetate
Concen: 21.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 86729

Ion	Ratio	Lower	Upper
43	100		
70	46.0	36.2	54.2
55	28.1	20.9	31.3
61	25.1	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 24.423 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

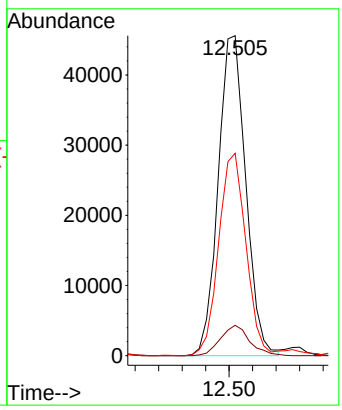
Tgt Ion: 83 Resp: 7438

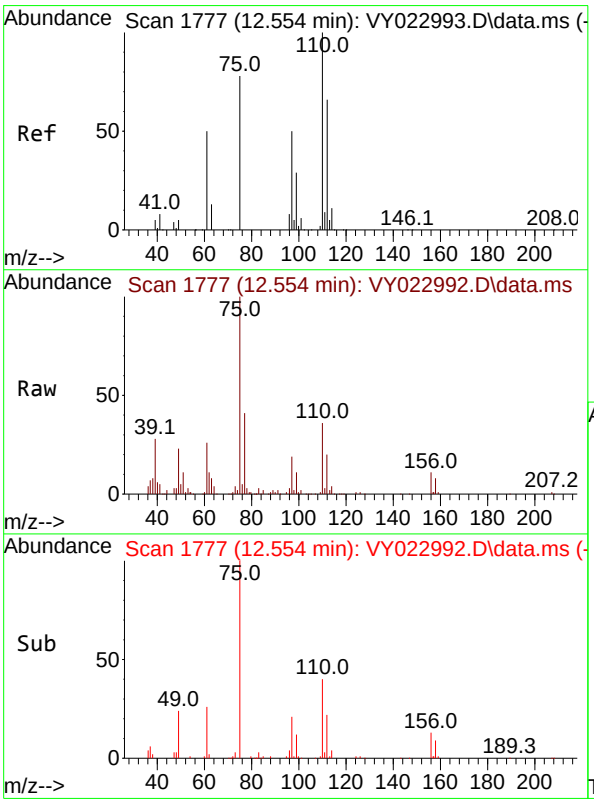
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	62.7	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

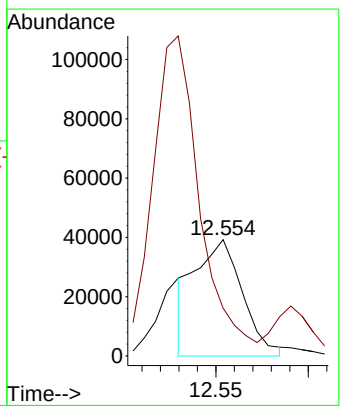


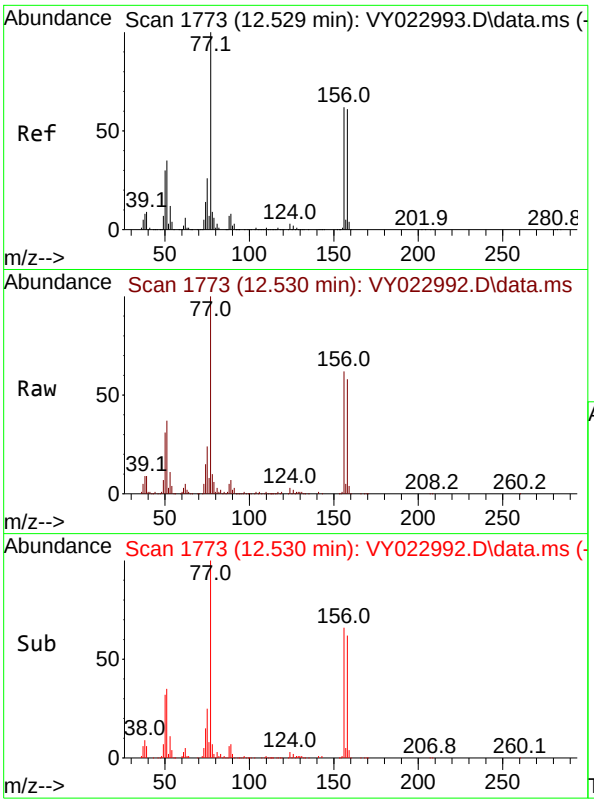


#76
1,2,3-Trichloropropane
Concen: 22.668 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 70821

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

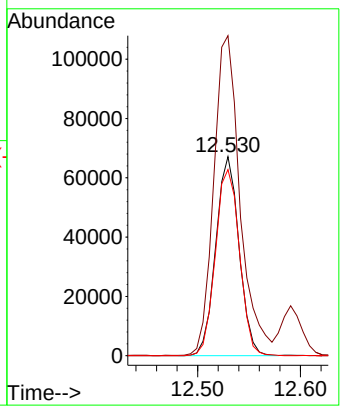




#77
Bromobenzene
Concen: 23.124 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:156 Resp: 10555

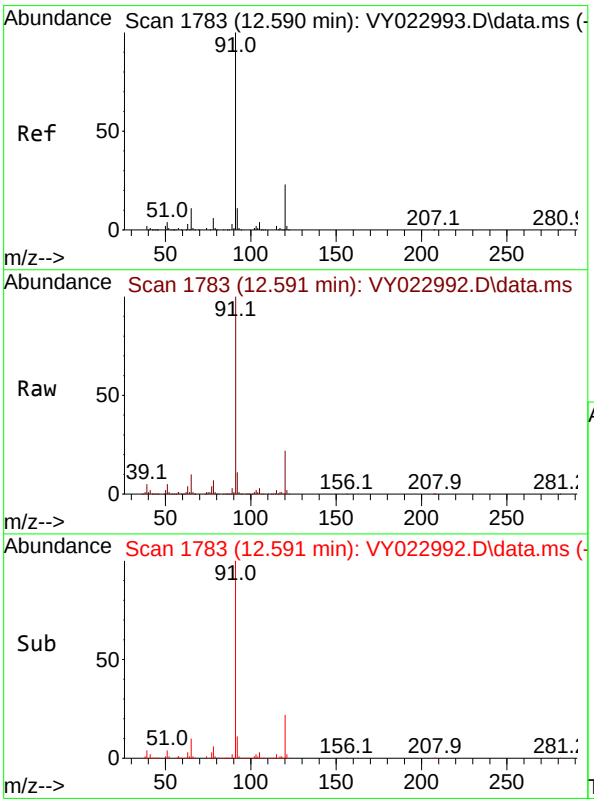
Ion	Ratio	Lower	Upper
156	100		
77	182.2	92.0	276.1
158	96.5	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

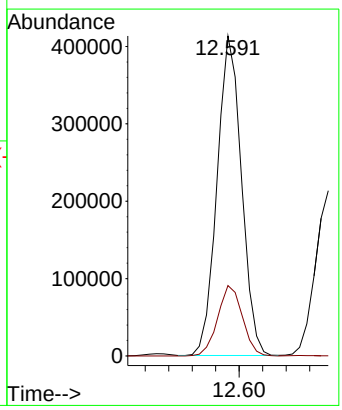
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

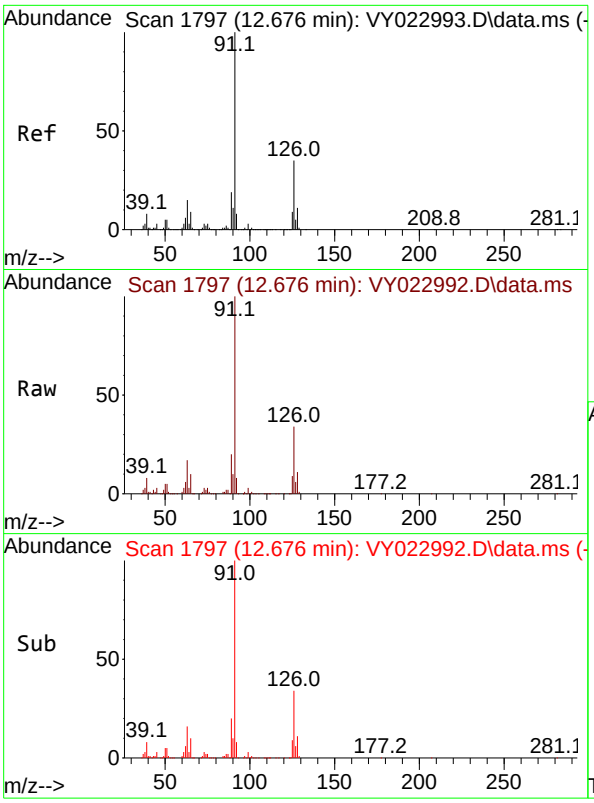


#78
n-propylbenzene
Concen: 23.816 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 91 Resp: 596905

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.8





#79
2-Chlorotoluene
Concen: 23.524 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

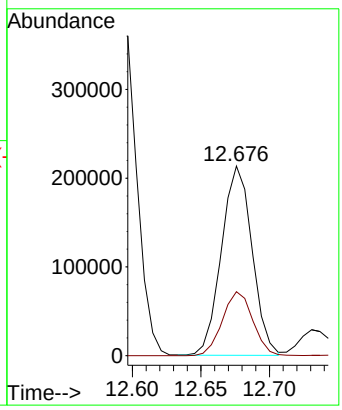
Tgt Ion: 91 Resp: 33160

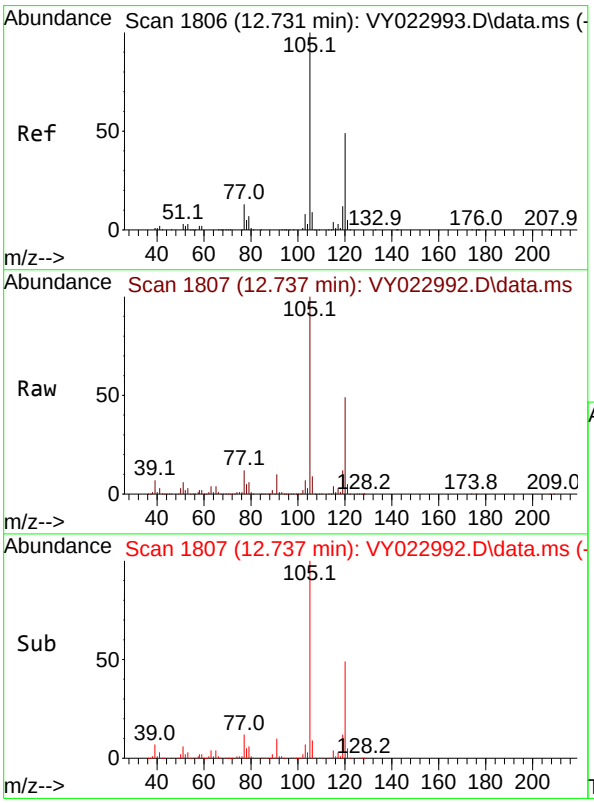
Ion	Ratio	Lower	Upper
91	100		
126	33.5	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

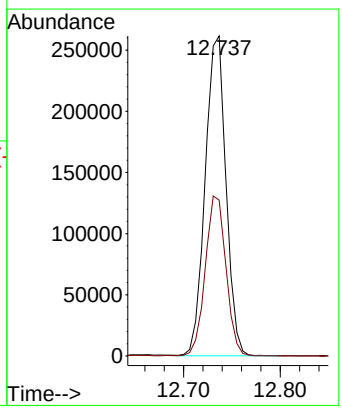


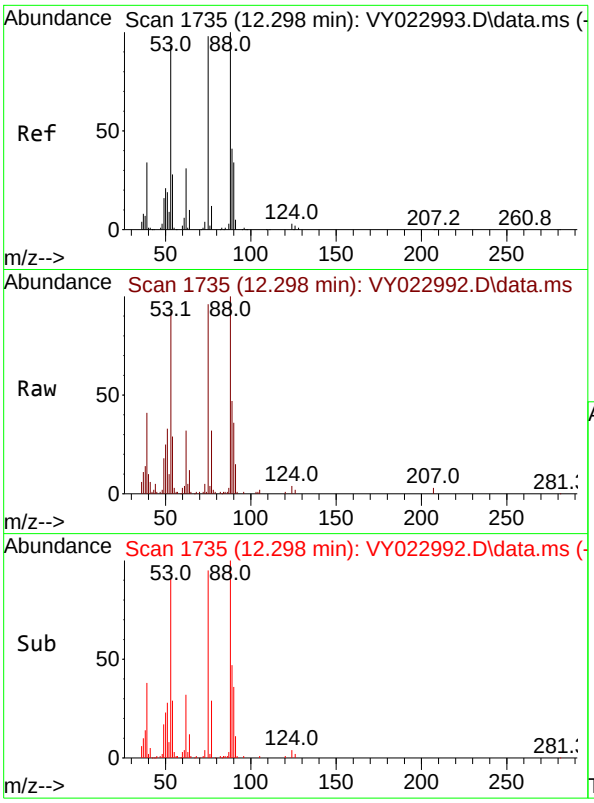


#80
1,3,5-Trimethylbenzene
Concen: 23.473 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:105 Resp: 389641

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.6	73.8

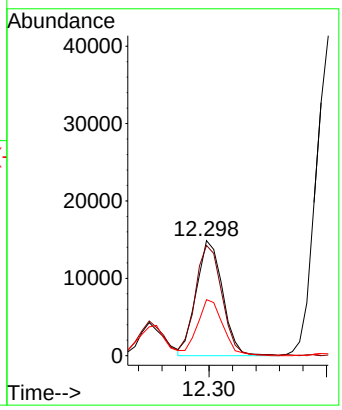




#81
trans-1,4-Dichloro-2-butene
Concen: 22.390 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 2325

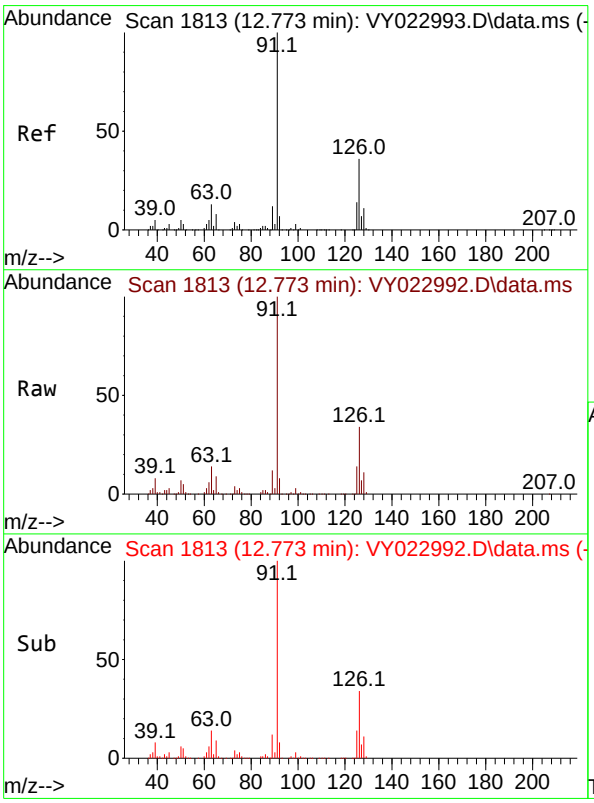
Ion	Ratio	Lower	Upper
75	100		
53	97.5	76.1	114.1
89	47.4	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

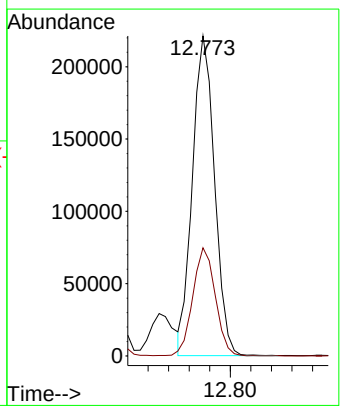
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

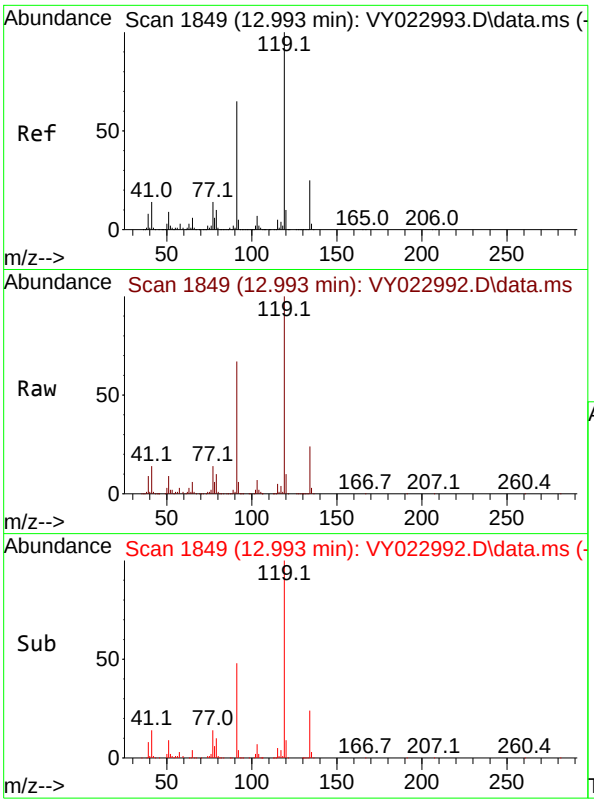


#82
4-Chlorotoluene
Concen: 23.268 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 91 Resp: 330802

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.2	51.5

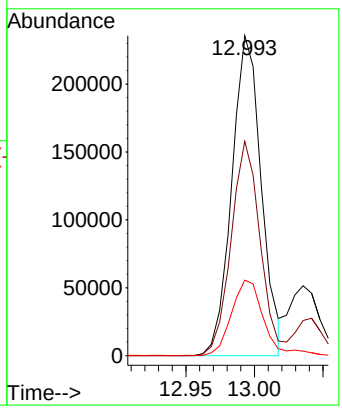




#83
tert-Butylbenzene
Concen: 23.490 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:119 Resp: 35221

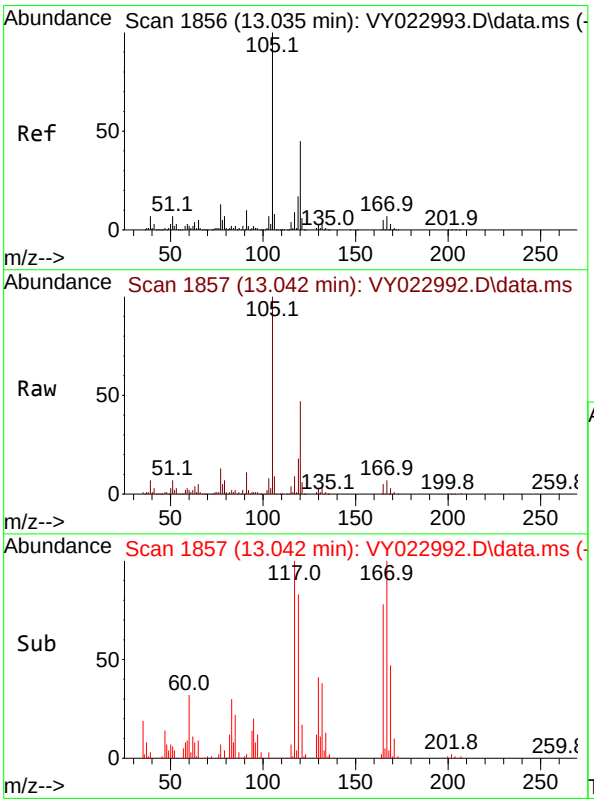
Ion	Ratio	Lower	Upper
119	100		
91	66.4	32.0	96.2
134	26.0	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

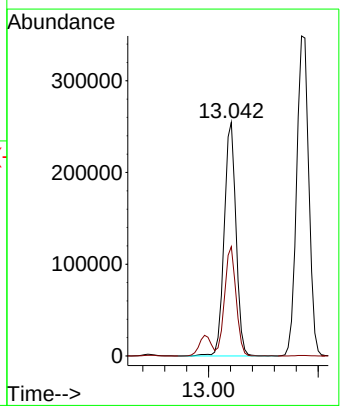
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

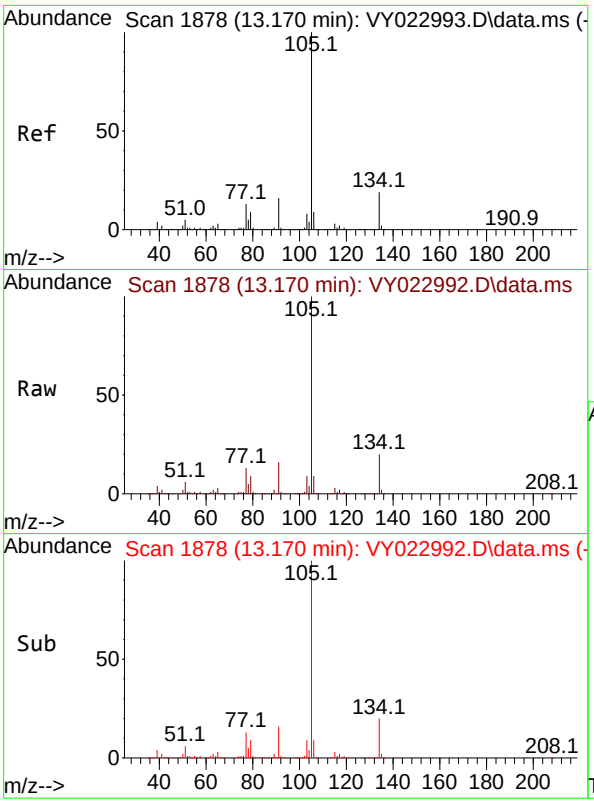


#84
1,2,4-Trimethylbenzene
Concen: 23.411 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:105 Resp: 382534

Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.9	68.8

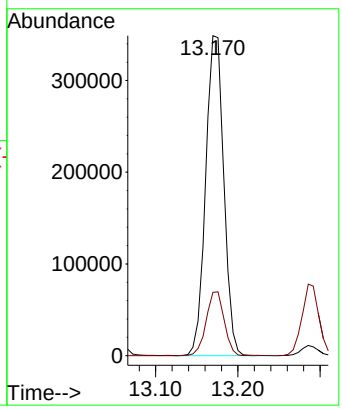




#85
sec-Butylbenzene
Concen: 23.809 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:105 Resp: 53499

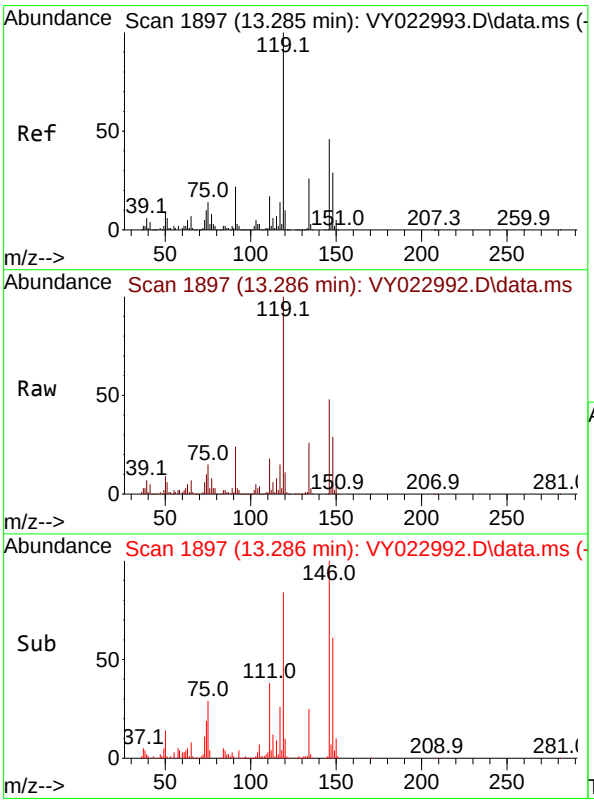
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

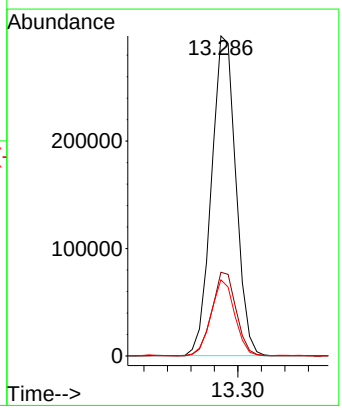
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

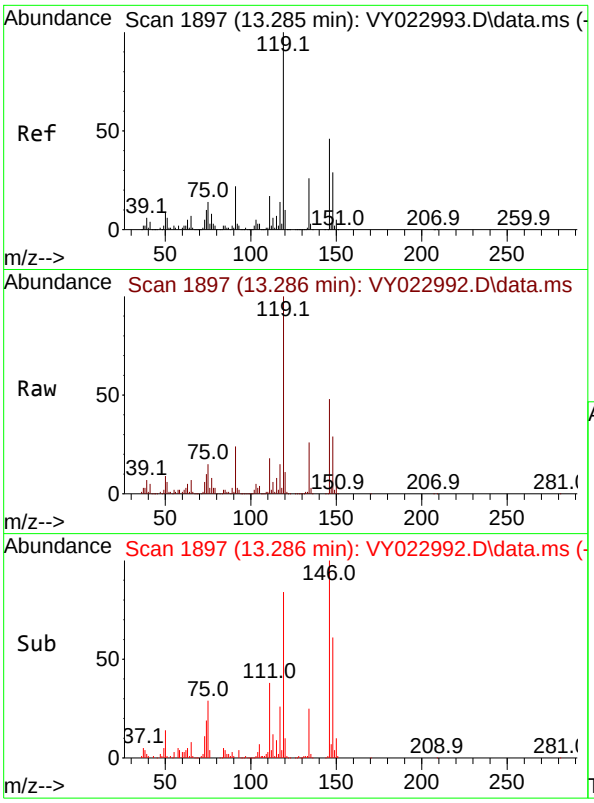


#86
p-Isopropyltoluene
Concen: 23.494 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:119 Resp: 428741

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	22.9	11.4	34.1

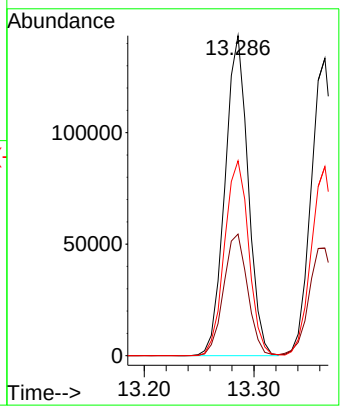




#87
1,3-Dichlorobenzene
Concen: 22.867 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:146 Resp: 21064

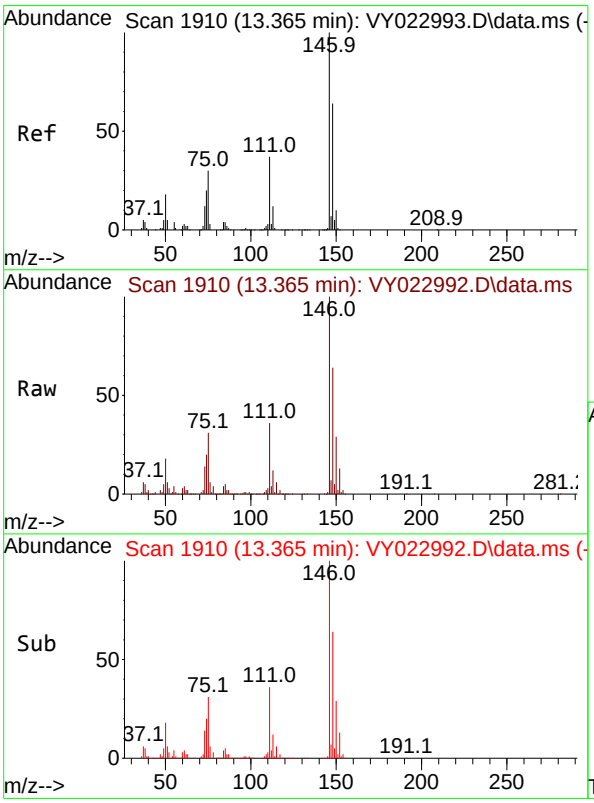
Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.7	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

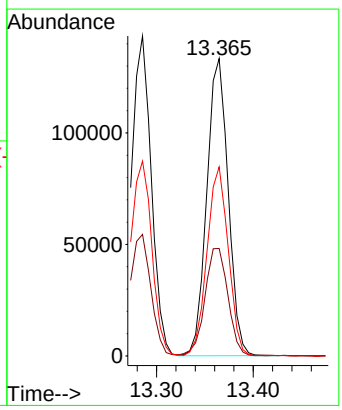
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

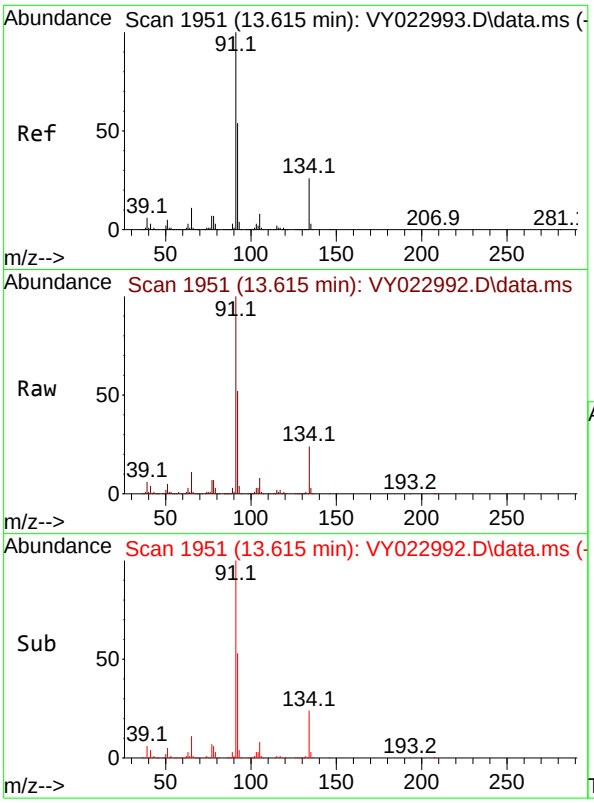


#88
1,4-Dichlorobenzene
Concen: 22.973 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:146 Resp: 204733

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.2	57.6
148	63.5	31.9	95.5

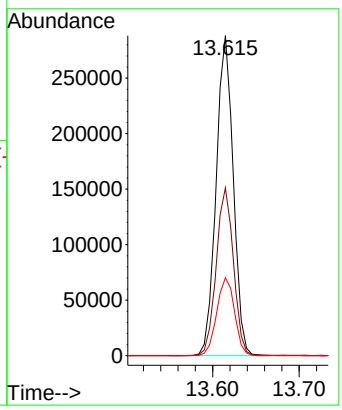




#89
n-Butylbenzene
Concen: 23.531 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 91 Resp: 39624

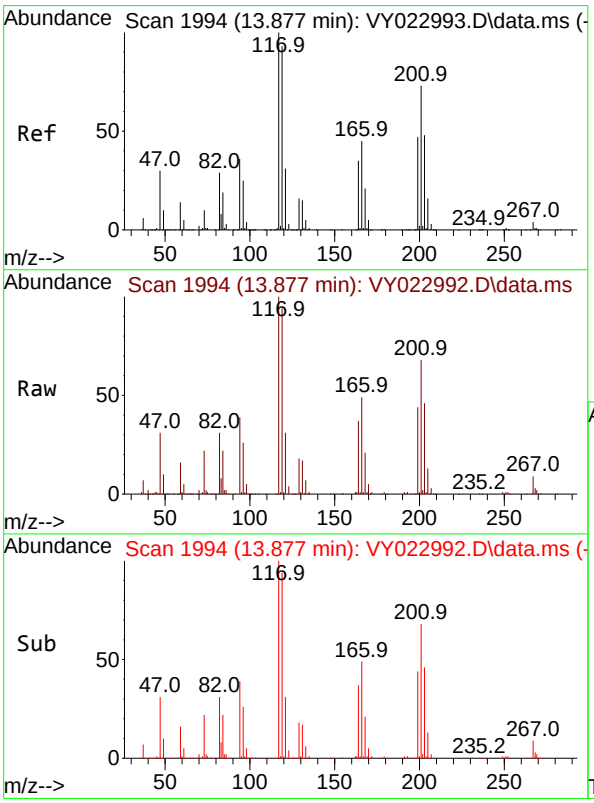
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.6	79.7
134	25.3	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

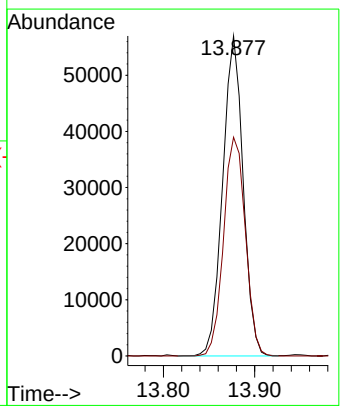
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

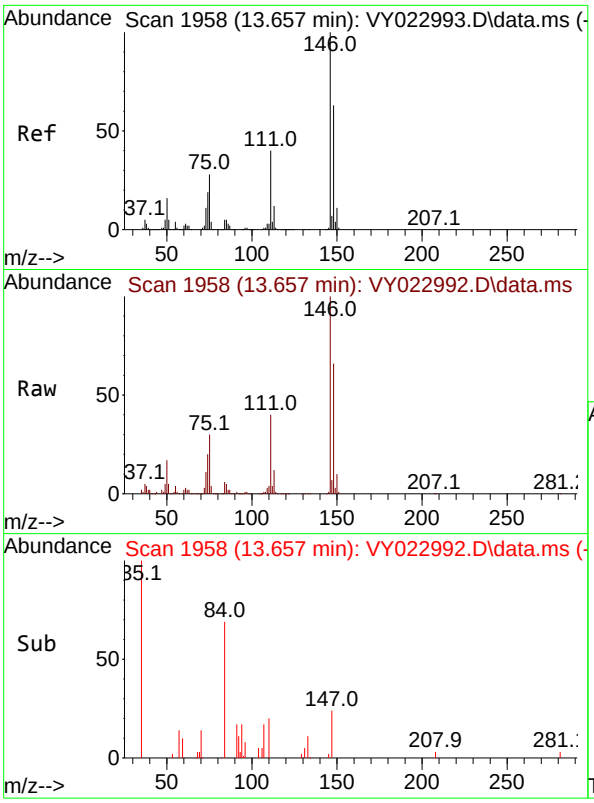


#90
Hexachloroethane
Concen: 23.502 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:117 Resp: 88795

Ion	Ratio	Lower	Upper
117	100		
201	72.6	36.1	108.5

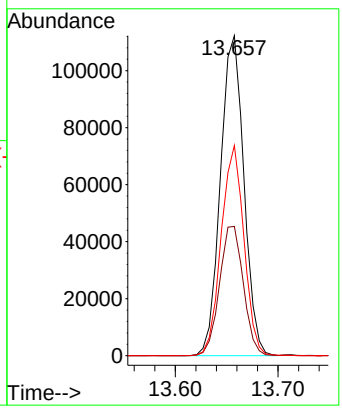




#91
1,2-Dichlorobenzene
Concen: 22.880 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:146 Resp: 17779

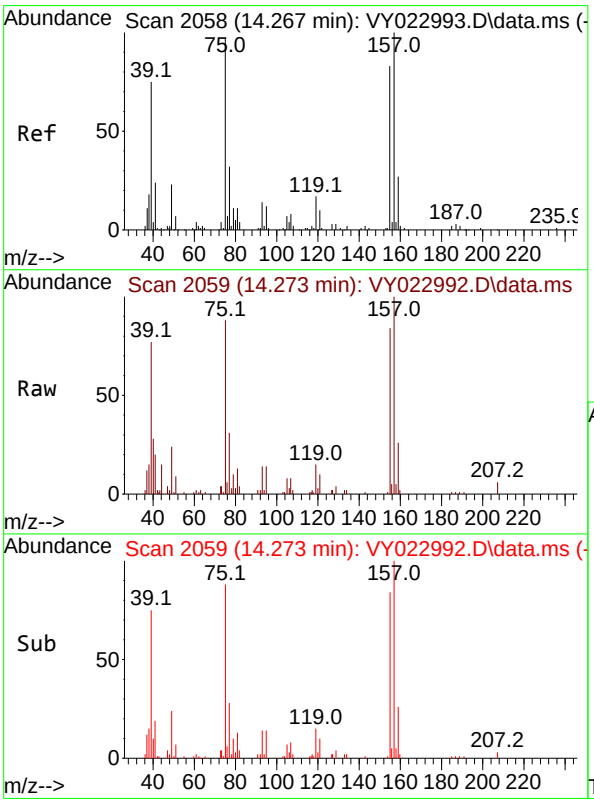
Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.3	61.0
148	63.8	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

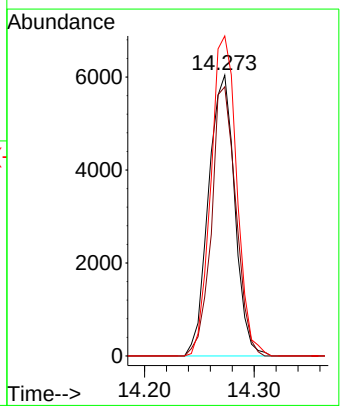
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

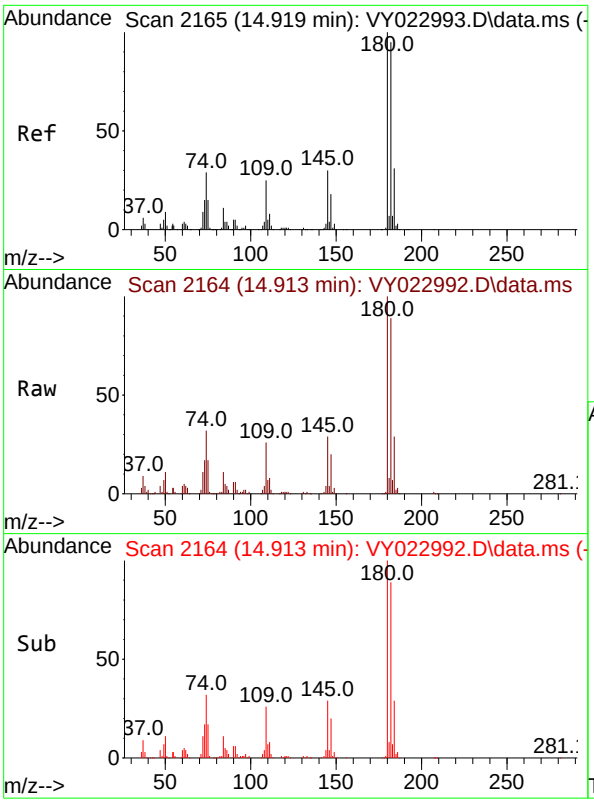


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.174 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 10028

Ion	Ratio	Lower	Upper
75	100		
155	89.3	42.8	128.3
157	112.7	54.3	162.9

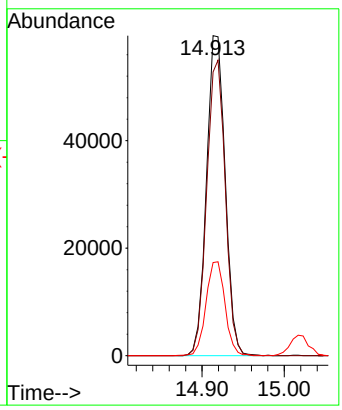




#93
1,2,4-Trichlorobenzene
Concen: 22.942 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:180 Resp: 9397

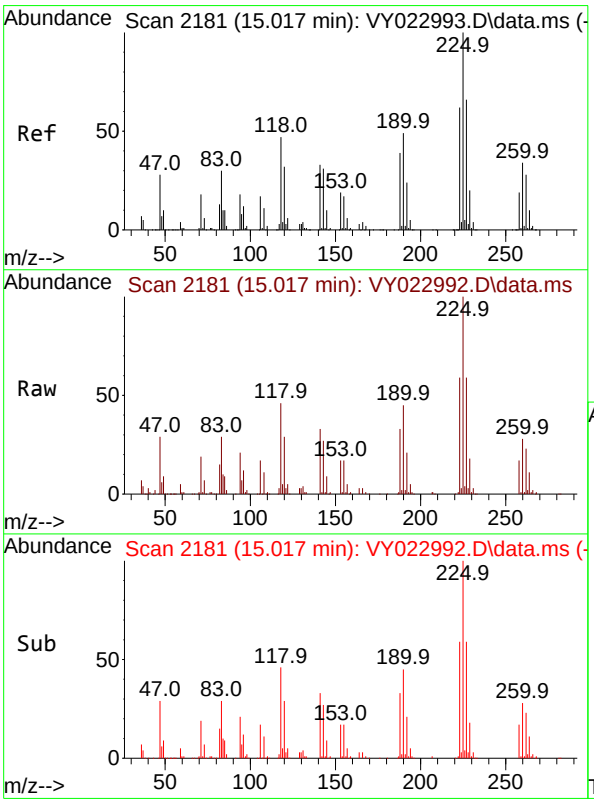
Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.5	142.5
145	29.8	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

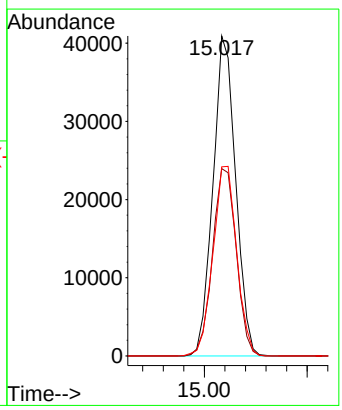
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

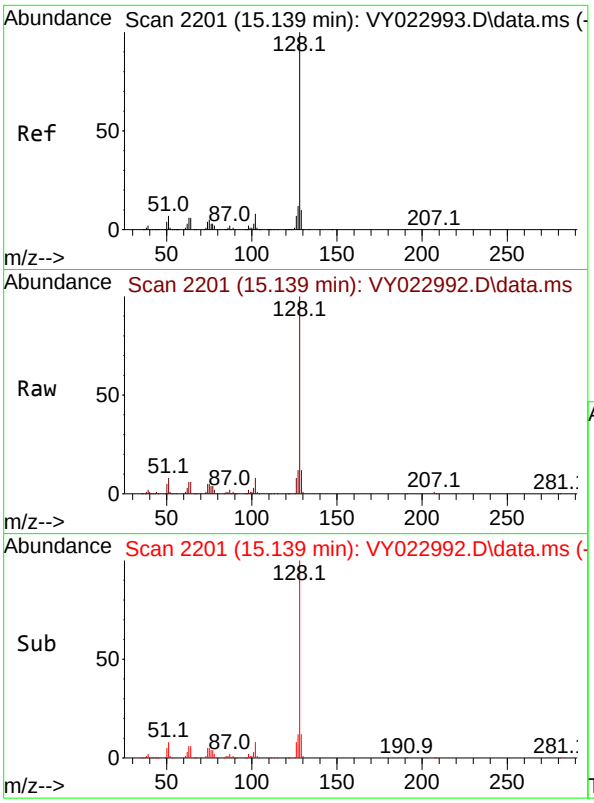


#94
Hexachlorobutadiene
Concen: 24.242 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:225 Resp: 62599

Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.4	94.0
227	62.2	32.1	96.5

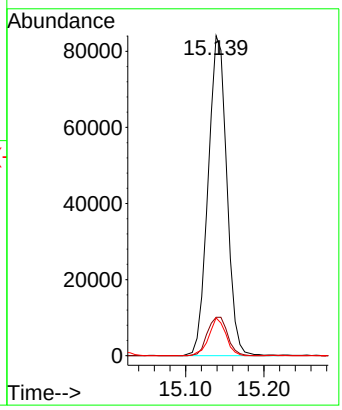




#95
Naphthalene
Concen: 21.209 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:128 Resp: 13933

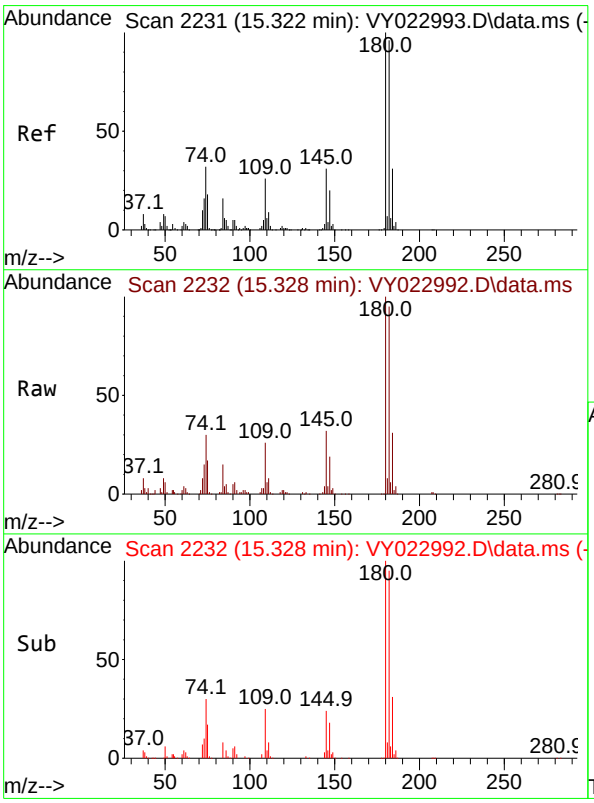
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.6	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

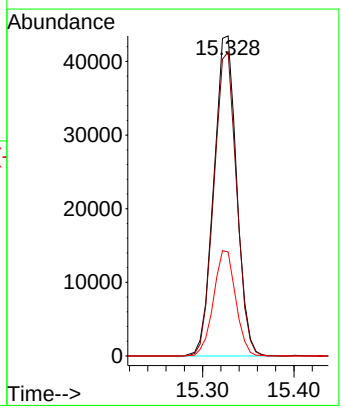
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 22.219 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:180 Resp: 75143

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	142.0
145	32.0	15.8	47.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	501817	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	789191	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	664286	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	311329	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	239014	47.050	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.100%			
35) Dibromofluoromethane	7.634	113	238242	47.590	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.180%			
50) Toluene-d8	10.103	98	950656	47.886	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.780%			
62) 4-Bromofluorobenzene	12.401	95	291196	46.597	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 93.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	184397	43.276	ug/l	100
3) Chloromethane	2.068	50	310189	42.813	ug/l	100
4) Vinyl Chloride	2.202	62	413768	45.077	ug/l	100
5) Bromomethane	2.592	94	278011	41.966	ug/l	100
6) Chloroethane	2.732	64	279256	45.553	ug/l	100
7) Trichlorofluoromethane	3.049	101	488462	45.842	ug/l	100
8) Diethyl Ether	3.452	74	124617	44.685	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	252620	45.131	ug/l	100
10) Methyl Iodide	4.001	142	285736	49.138	ug/l	100
11) Tert butyl alcohol	4.854	59	73810	238.938	ug/l	100
12) 1,1-Dichloroethene	3.787	96	239058	44.832	ug/l	100
13) Acrolein	3.653	56	18455	132.538	ug/l	100
14) Allyl chloride	4.378	41	371772	45.764	ug/l	100
15) Acrylonitrile	5.055	53	247093	233.921	ug/l	100
16) Acetone	3.866	43	194159	210.847	ug/l	100
17) Carbon Disulfide	4.104	76	721811	44.664	ug/l	100
18) Methyl Acetate	4.385	43	162254	52.045	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	597847	46.744	ug/l	100
20) Methylene Chloride	4.610	84	304504	46.415	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	267267	45.028	ug/l	100
22) Diisopropyl ether	6.018	45	800264	46.434	ug/l	100
23) Vinyl Acetate	5.957	43	2025238	233.221	ug/l	100
24) 1,1-Dichloroethane	5.915	63	494896	45.718	ug/l	100
25) 2-Butanone	6.890	43	309076	233.963	ug/l	100
26) 2,2-Dichloropropane	6.884	77	430578	45.386	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	316409	46.253	ug/l	100
28) Bromochloromethane	7.244	49	199840	47.598	ug/l	100
29) Tetrahydrofuran	7.262	42	204304	244.270	ug/l	100
30) Chloroform	7.421	83	497058	45.518	ug/l	100
31) Cyclohexane	7.701	56	441500	43.650	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	453173	45.738	ug/l	100
36) 1,1-Dichloropropene	7.835	75	372166	47.196	ug/l	100
37) Ethyl Acetate	6.982	43	138948	47.445	ug/l	100
38) Carbon Tetrachloride	7.817	117	400589	46.760	ug/l	100
39) Methylcyclohexane	9.109	83	482312	47.256	ug/l	100
40) Benzene	8.079	78	1113790	46.911	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	78701	50.913	ug/l	100
42) 1,2-Dichloroethane	8.158	62	282749	47.867	ug/l	100
43) Isopropyl Acetate	8.195	43	288097	49.524	ug/l	100
44) Trichloroethene	8.866	130	288157	47.253	ug/l	100
45) 1,2-Dichloropropane	9.140	63	258018	46.536	ug/l	100
46) Dibromomethane	9.231	93	137104	47.840	ug/l	100
47) Bromodichloromethane	9.420	83	373011	47.086	ug/l	100
48) Methyl methacrylate	9.219	41	141851	50.507	ug/l	100
49) 1,4-Dioxane	9.225	88	30004	993.216	ug/l	100
51) 4-Methyl-2-Pentanone	9.993	43	754317	255.467	ug/l	100
52) Toluene	10.170	92	703655	47.669	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	326909	48.074	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	388343	47.380	ug/l	100
55) 1,1,2-Trichloroethane	10.566	97	179703	47.708	ug/l	100
56) Ethyl methacrylate	10.438	69	237585	50.527	ug/l	100
57) 1,3-Dichloropropane	10.713	76	309762	47.605	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	618691	268.792	ug/l	100
59) 2-Hexanone	10.755	43	499848	257.540	ug/l	100
60) Dibromochloromethane	10.908	129	239431	48.542	ug/l	100
61) 1,2-Dibromoethane	11.011	107	165428	48.362	ug/l	100
64) Tetrachloroethene	10.646	164	340698	50.177	ug/l	100
65) Chlorobenzene	11.438	112	739951	47.205	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	249587	46.683	ug/l	100
67) Ethyl Benzene	11.517	91	1333383	47.990	ug/l	100
68) m/p-Xylenes	11.627	106	1025693	96.245	ug/l	100
69) o-Xylene	11.950	106	473669	47.893	ug/l	100
70) Styrene	11.969	104	788910	48.697	ug/l	100
71) Bromoform	12.127	173	128589	47.377	ug/l	100
73) Isopropylbenzene	12.249	105	1261366	47.788	ug/l	100
74) N-amyl acetate	12.066	43	247232	49.681	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.499	83	174373	45.650	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	185675m	47.387	ug/l	
77) Bromobenzene	12.529	156	270964	47.332	ug/l	100
78) n-propylbenzene	12.590	91	1513613	48.154	ug/l	100
79) 2-Chlorotoluene	12.676	91	834869	47.226	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	999303	48.002	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	62367	47.883	ug/l	100
82) 4-Chlorotoluene	12.773	91	849887	47.667	ug/l	100
83) tert-Butylbenzene	12.993	119	911526	48.474	ug/l	100
84) 1,2,4-Trimethylbenzene	13.035	105	987090	48.169	ug/l	100
85) sec-Butylbenzene	13.170	105	1351665	47.965	ug/l	100
86) p-Isopropyltoluene	13.285	119	1110110	48.505	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	544923	47.167	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	525144	46.985	ug/l	100
89) n-Butylbenzene	13.615	91	1021282	48.359	ug/l	100
90) Hexachloroethane	13.877	117	221864	46.822	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	460252	47.229	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	28006	49.379	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	247288	48.140	ug/l	100
94) Hexachlorobutadiene	15.017	225	147284	45.479	ug/l	100
95) Naphthalene	15.139	128	429845	52.172	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	208782	49.224	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

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

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

ICAL Form

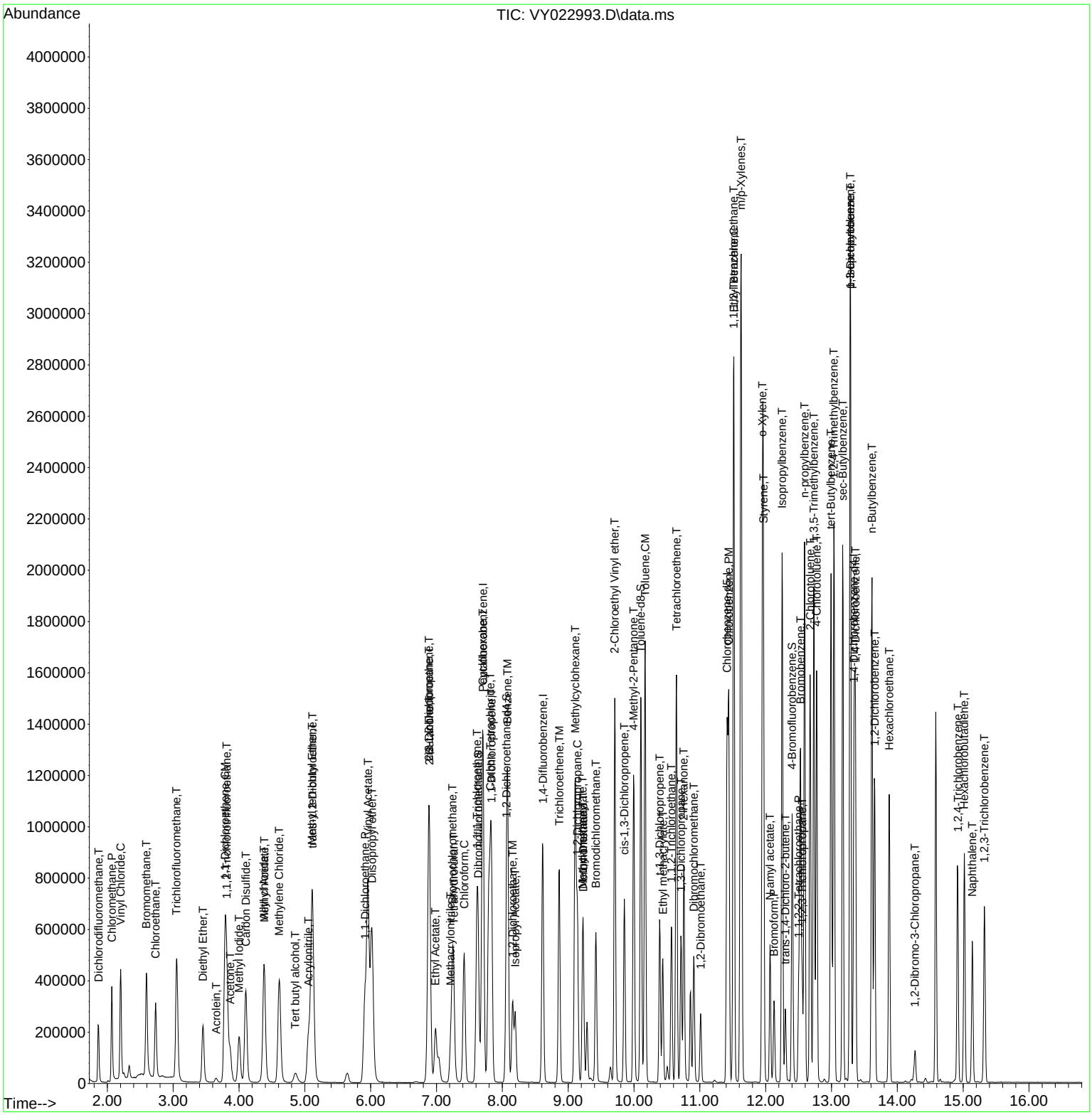
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

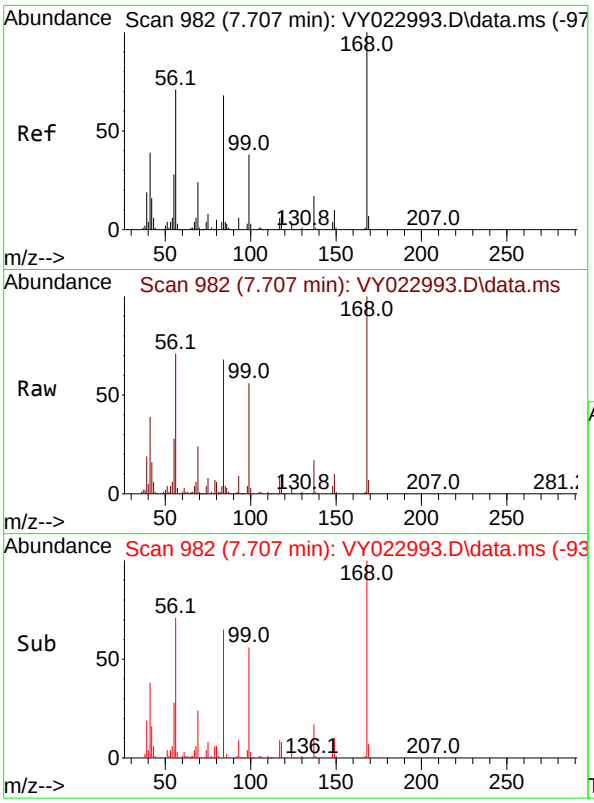
Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

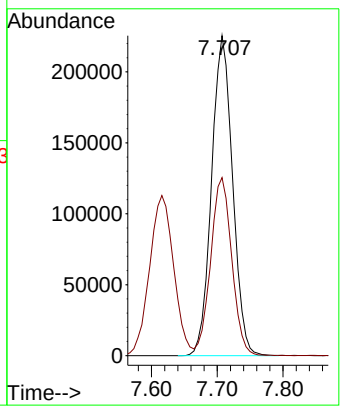




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:168 Resp: 50181

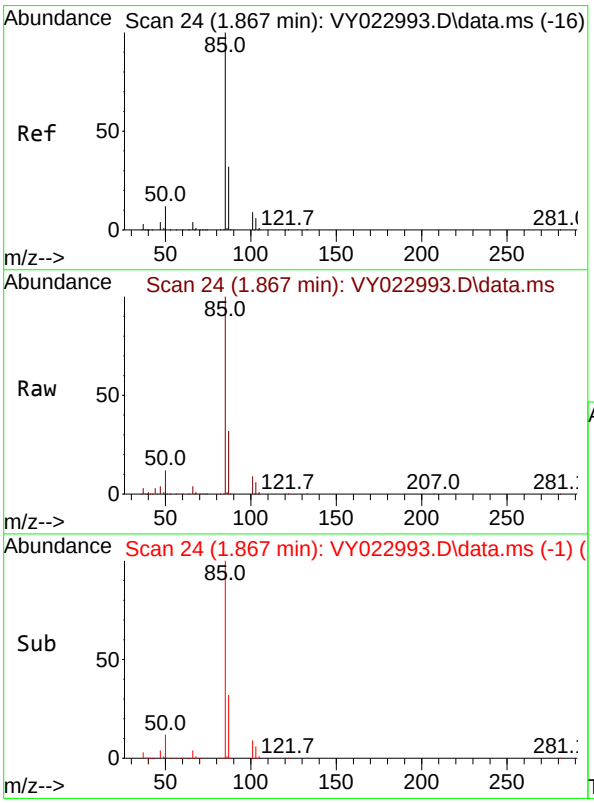
Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

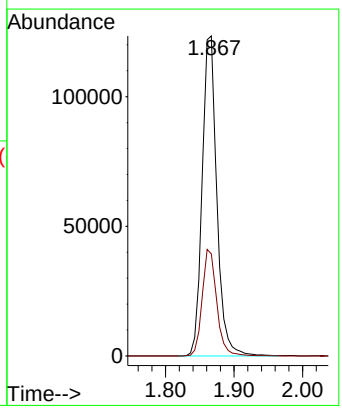
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

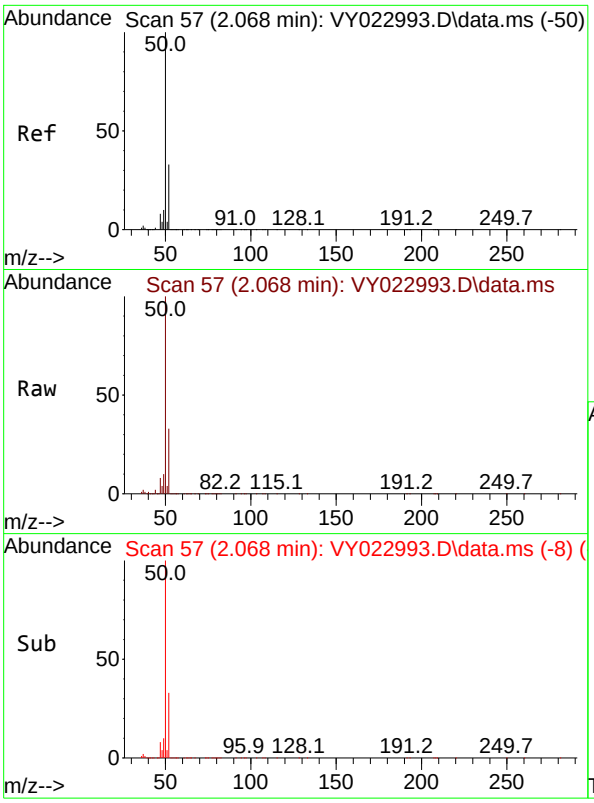


#2
Dichlorodifluoromethane
Concen: 43.276 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 85 Resp: 184397

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.0	47.9

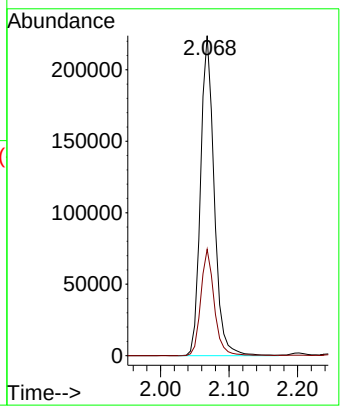




#3
Chloromethane
Concen: 42.813 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 50 Resp: 31018

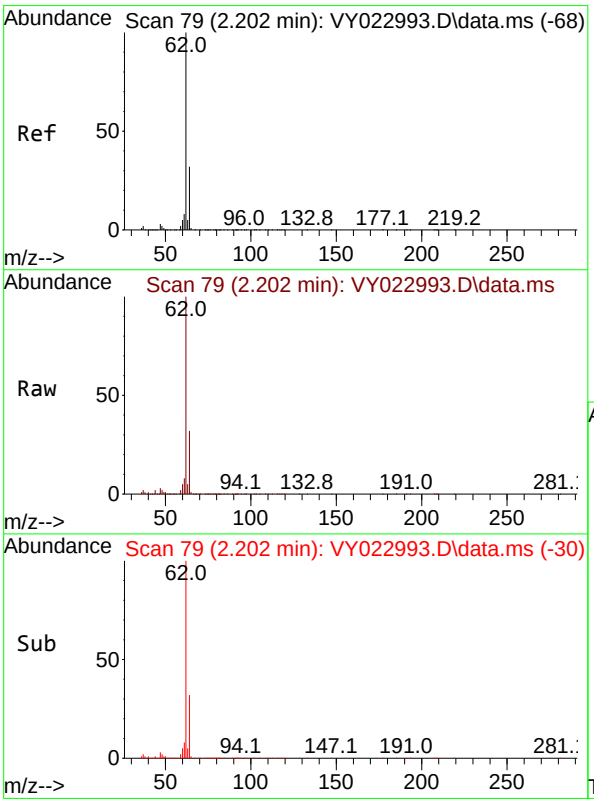
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

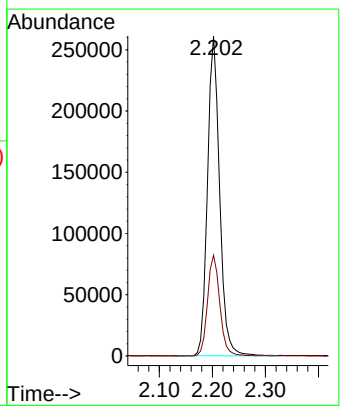
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

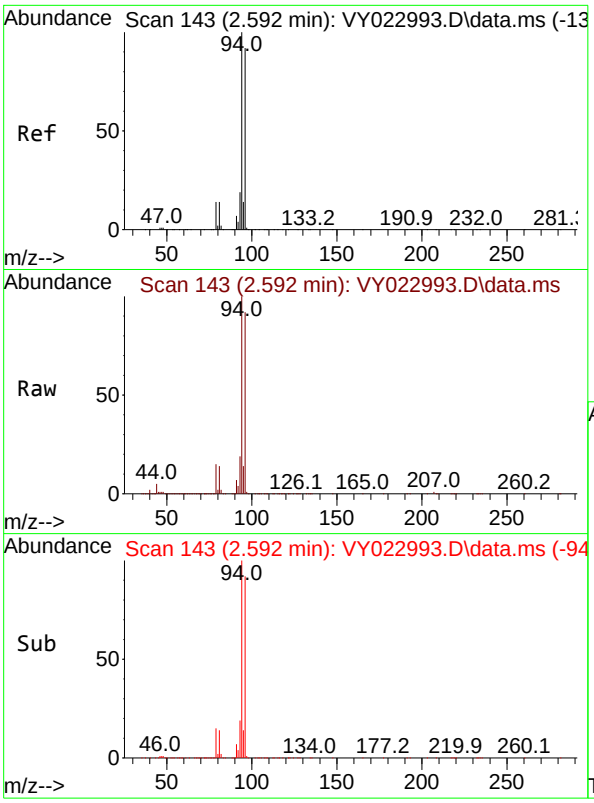


#4
Vinyl Chloride
Concen: 45.077 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 62 Resp: 413768

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8





#5
Bromomethane
Concen: 41.966 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

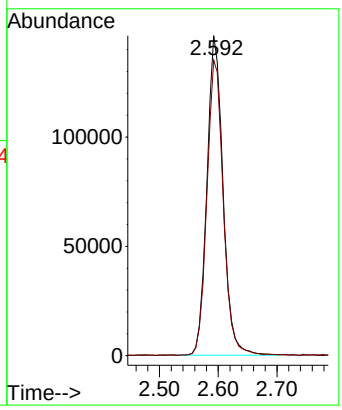
Tgt Ion: 94 Resp: 27801

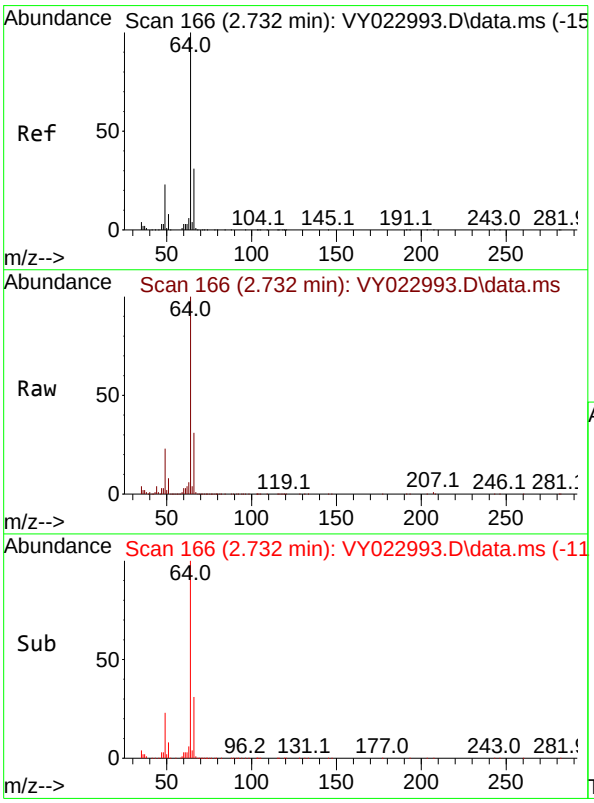
Ion	Ratio	Lower	Upper
94	100		
96	92.4	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

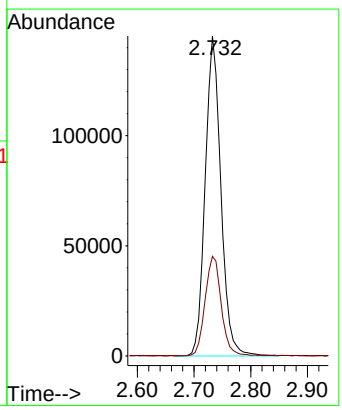


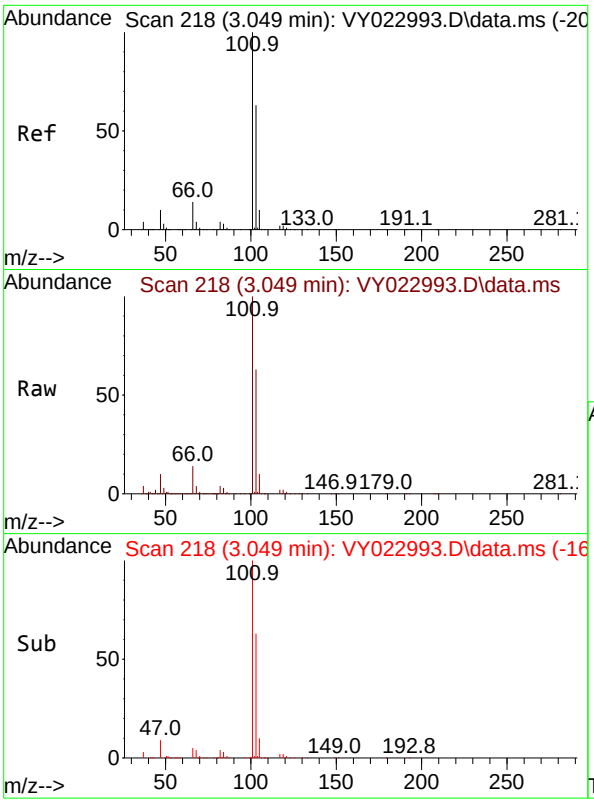


#6
Chloroethane
Concen: 45.553 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 64 Resp: 279256

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.9	37.3

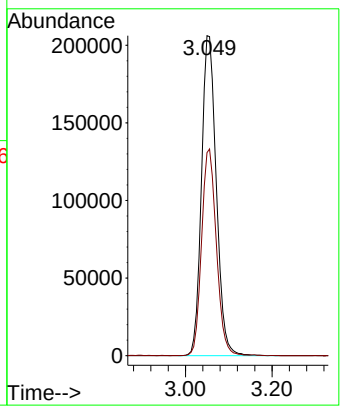




#7
Trichlorofluoromethane
Concen: 45.842 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:101 Resp: 48846

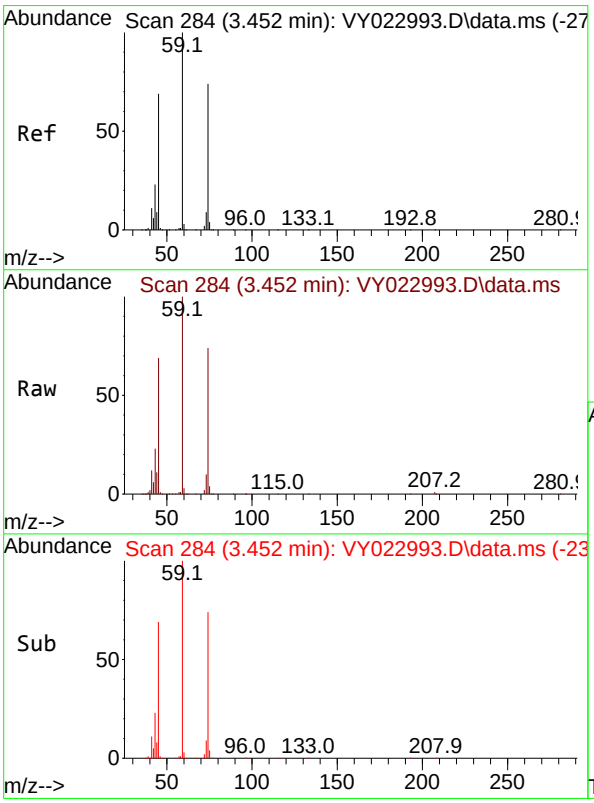
Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

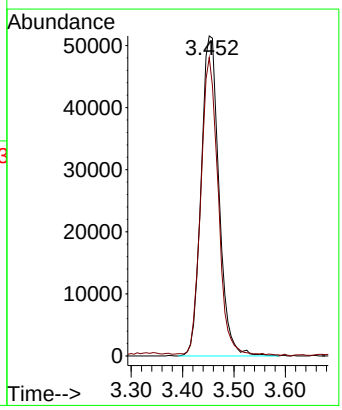
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

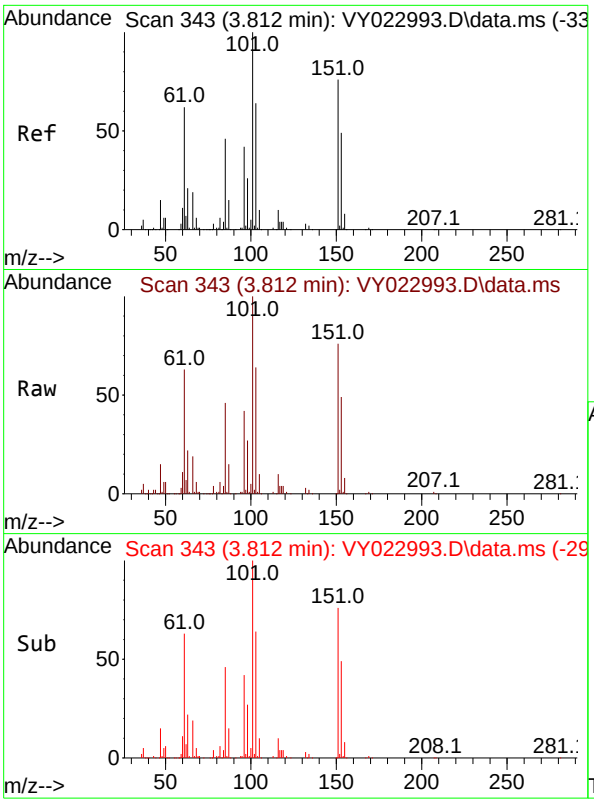


#8
Diethyl Ether
Concen: 44.685 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 74 Resp: 124617

Ion	Ratio	Lower	Upper
74	100		
45	90.1	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.131 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

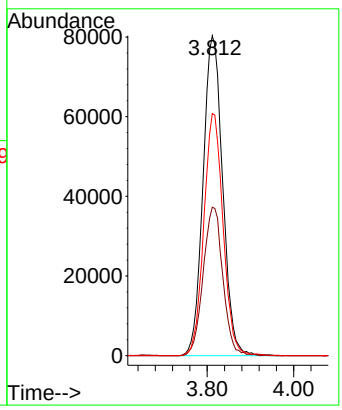
Tgt Ion:101 Resp: 25262

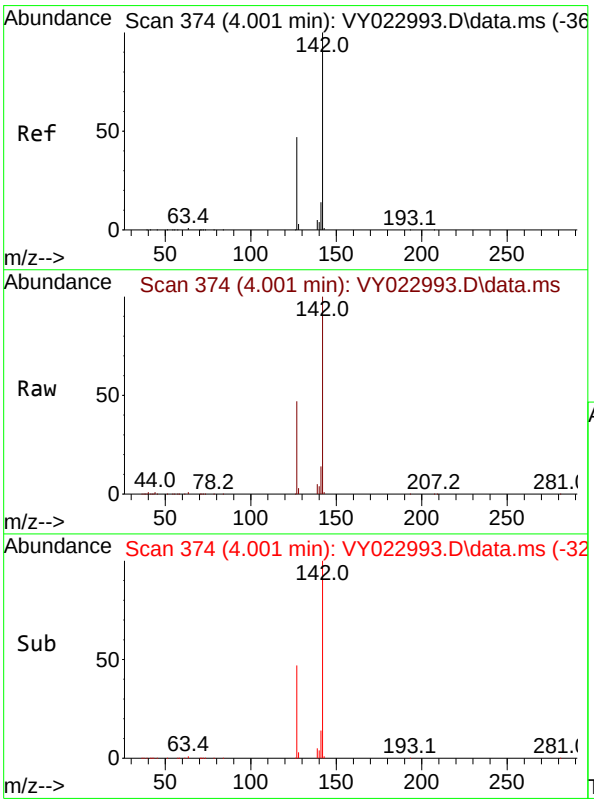
Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.2	55.8
151	74.6	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

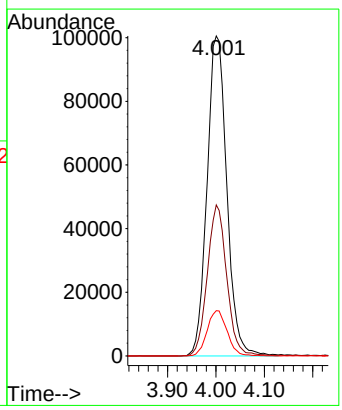


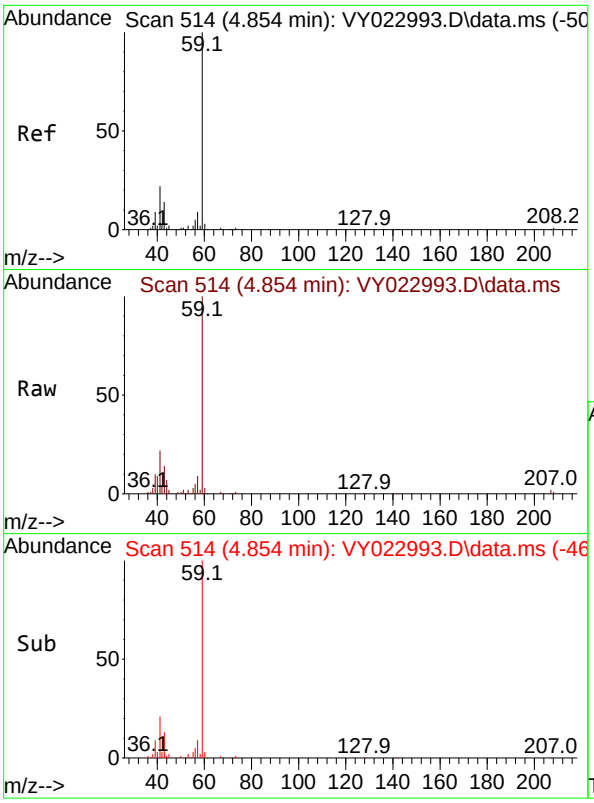


#10
Methyl Iodide
Concen: 49.138 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:142 Resp: 285736

Ion	Ratio	Lower	Upper
142	100		
127	46.3	37.0	55.6
141	14.3	11.4	17.2

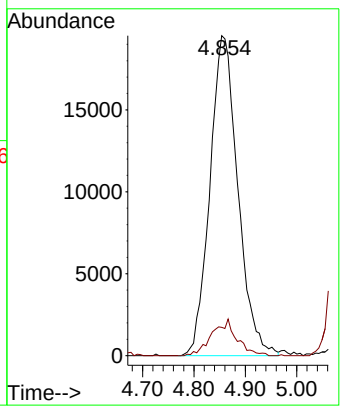




#11
Tert butyl alcohol
Concen: 238.938 ug/l
RT: 4.854 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 59 Resp: 7381

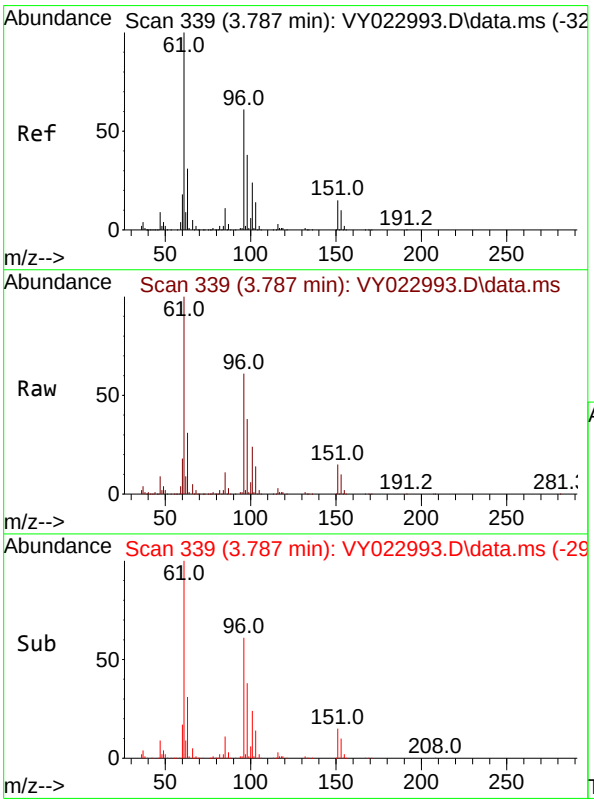
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

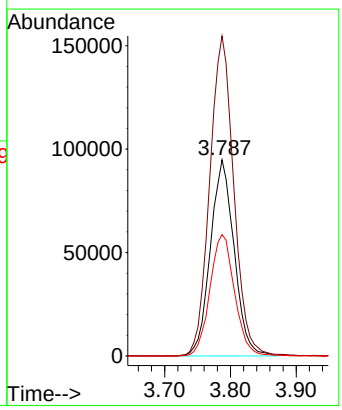
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

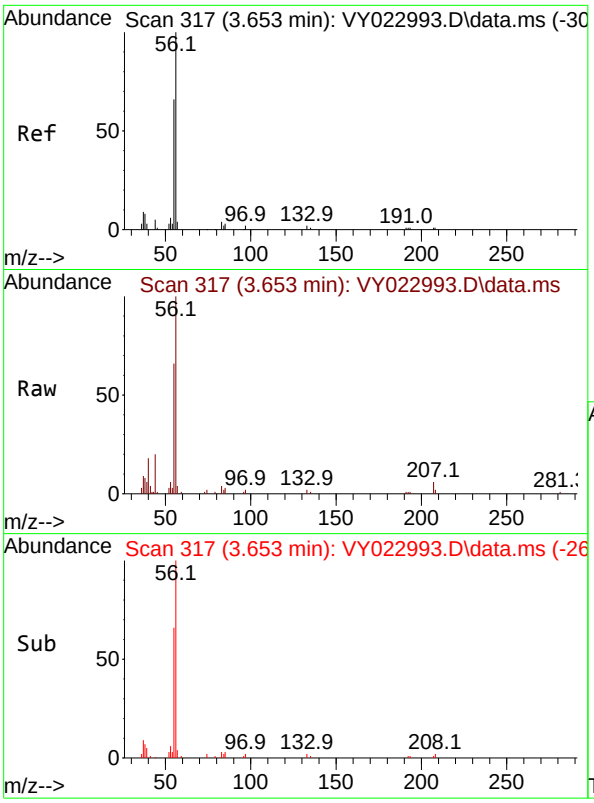


#12
1,1-Dichloroethene
Concen: 44.832 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 96 Resp: 239058

Ion	Ratio	Lower	Upper
96	100		
61	163.0	130.4	195.6
98	62.0	49.6	74.4

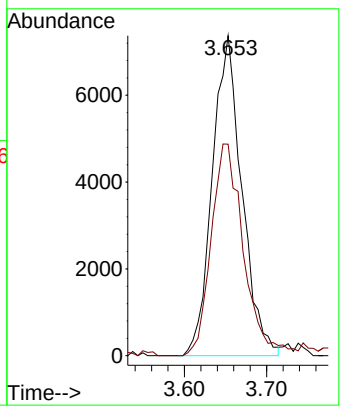




#13
Acrolein
Concen: 132.538 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 56 Resp: 1845

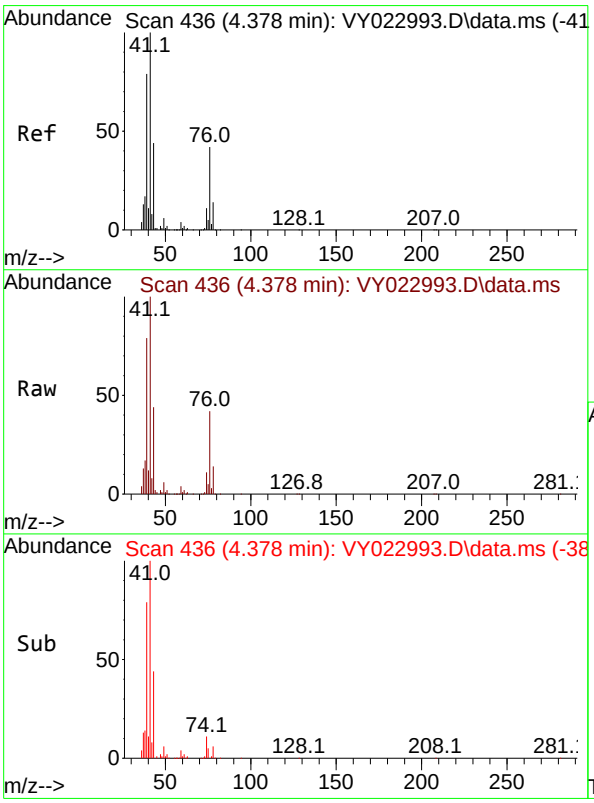
Ion	Ratio	Lower	Upper
56	100		
55	72.2	57.8	86.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

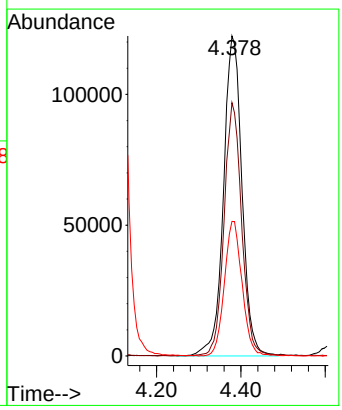
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

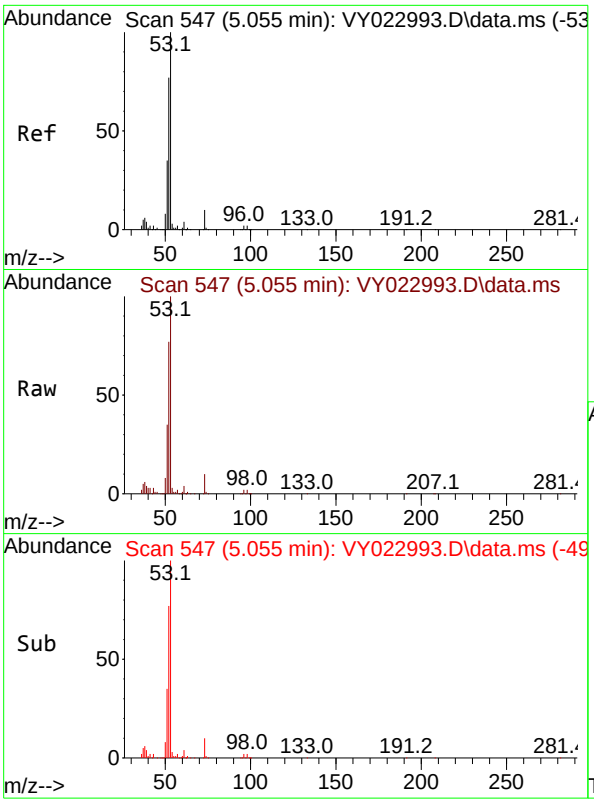


#14
Allyl chloride
Concen: 45.764 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 41 Resp: 371772

Ion	Ratio	Lower	Upper
41	100		
39	75.1	60.1	90.1
76	40.3	32.2	48.4

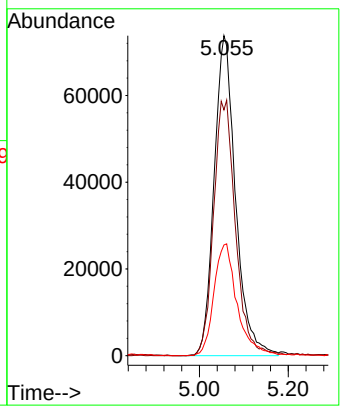




#15
Acrylonitrile
Concen: 233.921 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 53 Resp: 24709

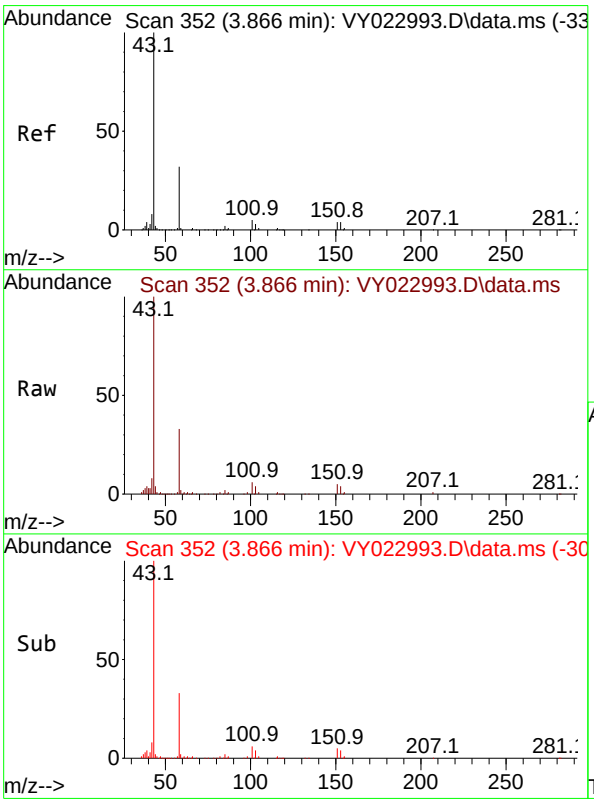
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.2	97.8
51	37.9	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

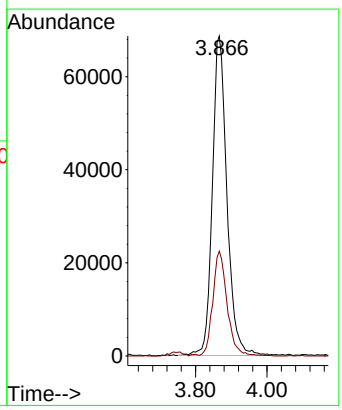
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

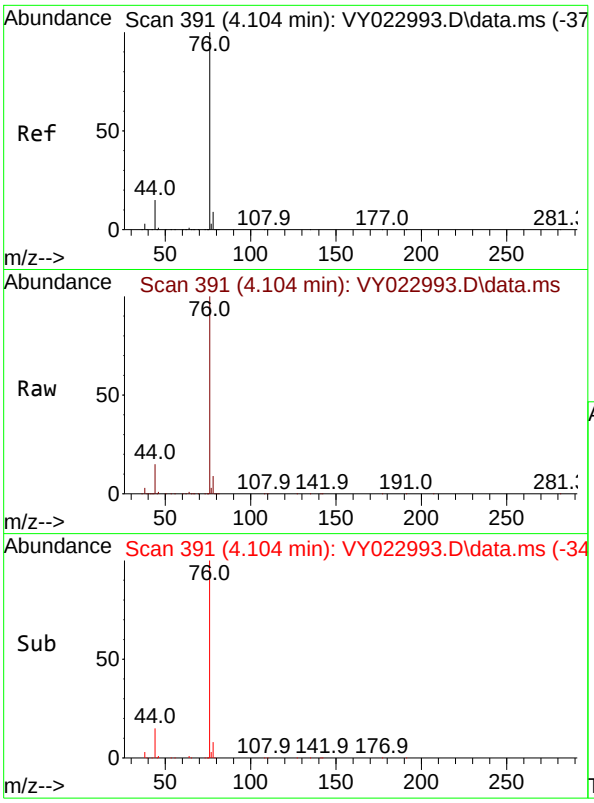


#16
Acetone
Concen: 210.847 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 194159

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.2	39.4





#17
Carbon Disulfide
Concen: 44.664 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

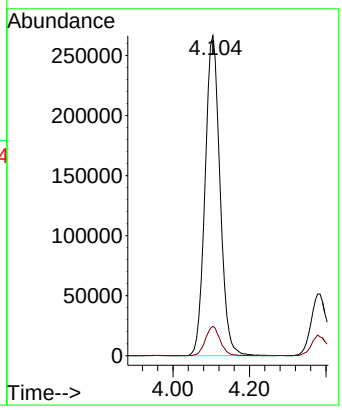
Tgt Ion: 76 Resp: 72181

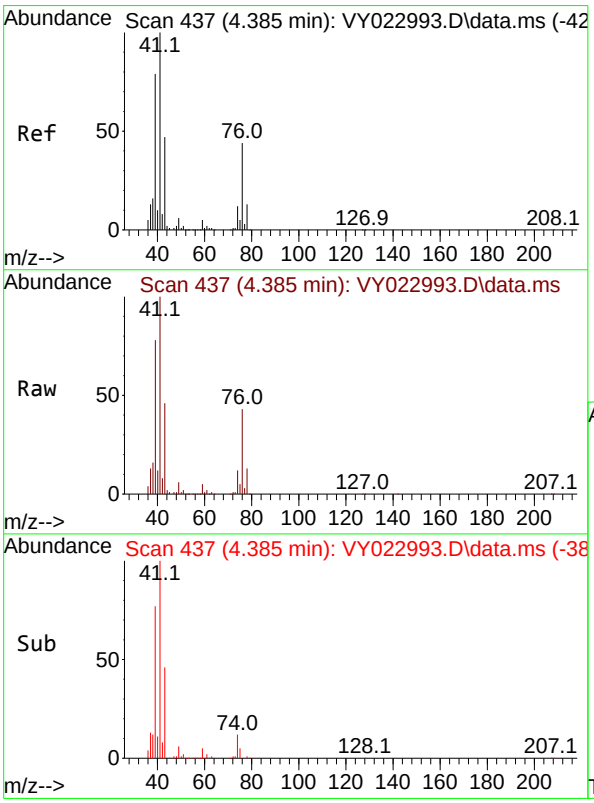
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

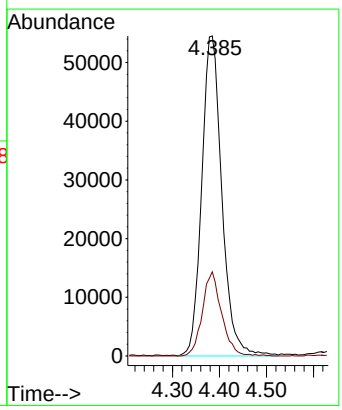


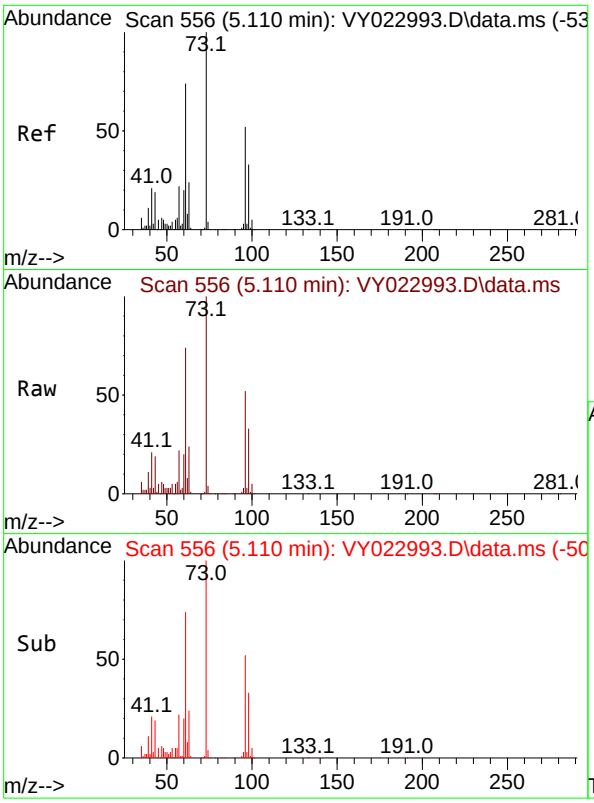


#18
Methyl Acetate
Concen: 52.045 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 162254

Ion	Ratio	Lower	Upper
43	100		
74	25.1	20.1	30.1

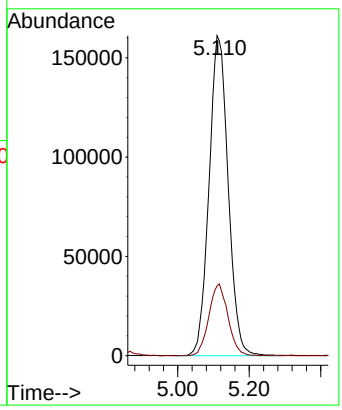




#19
Methyl tert-butyl Ether
Concen: 46.744 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 73 Resp: 59784

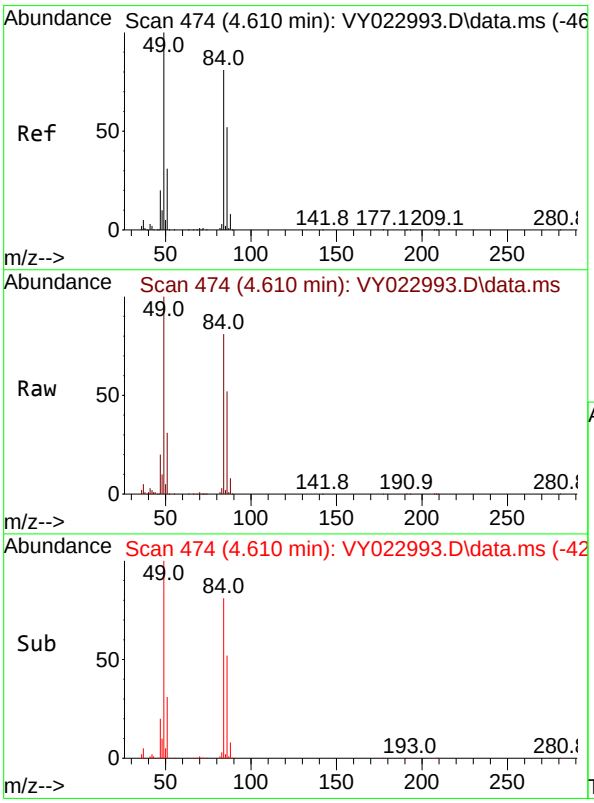
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

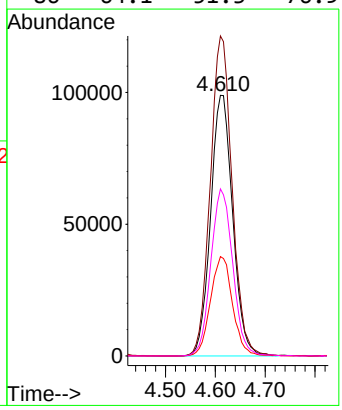
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

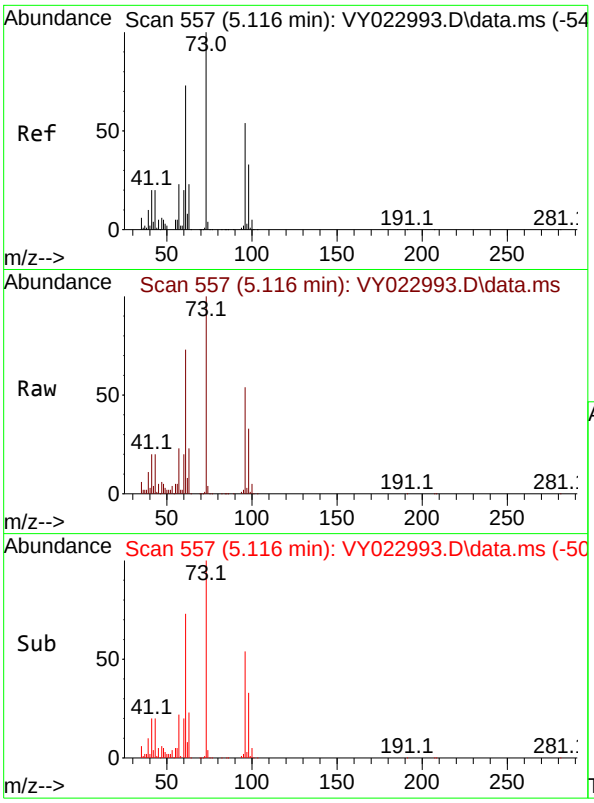


#20
Methylene Chloride
Concen: 46.415 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 84 Resp: 304504

Ion	Ratio	Lower	Upper
84	100		
49	122.8	98.2	147.4
51	38.1	30.5	45.7
86	64.1	51.3	76.9

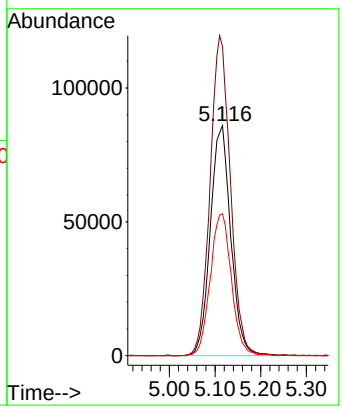




#21
trans-1,2-Dichloroethene
Concen: 45.028 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 96 Resp: 26726

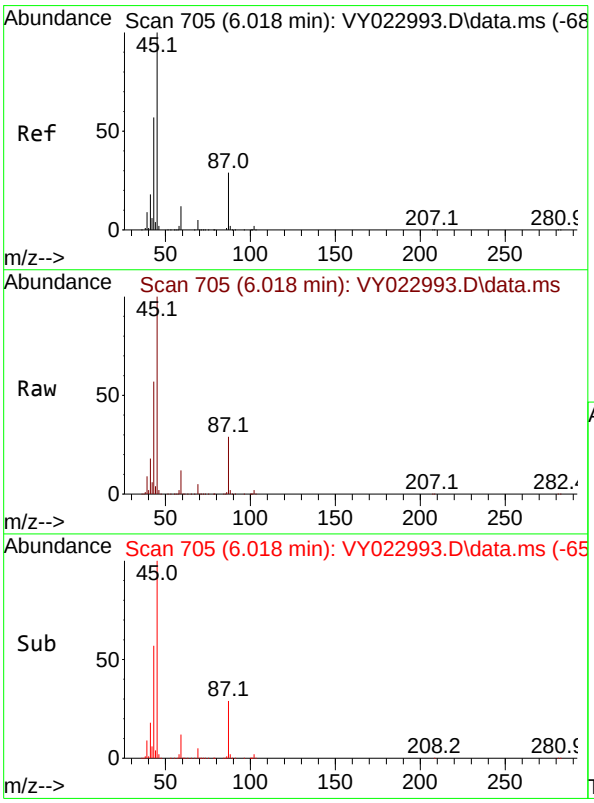
Ion	Ratio	Lower	Upper
96	100		
61	134.3	107.4	161.2
98	61.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

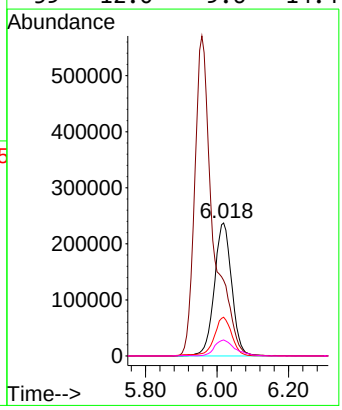
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

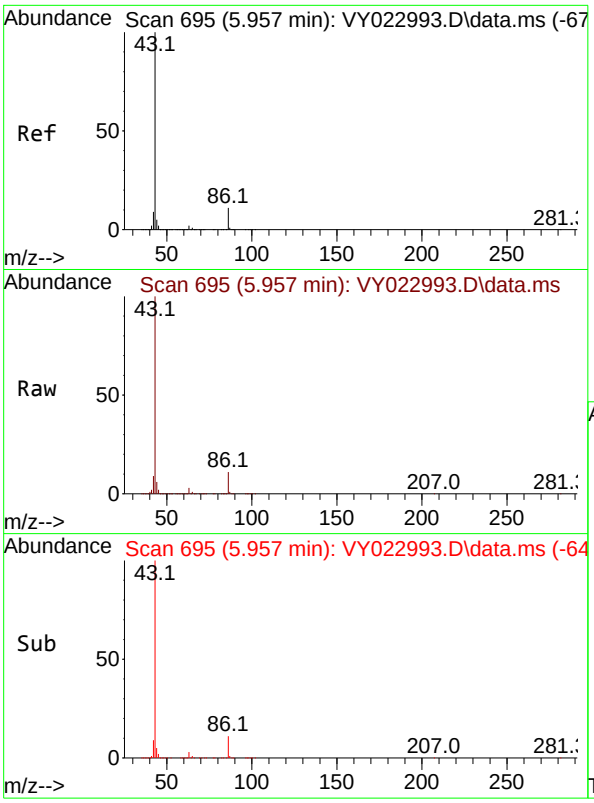


#22
Diisopropyl ether
Concen: 46.434 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 45 Resp: 800264

Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.3	67.9
87	29.1	23.3	34.9
59	12.0	9.6	14.4





#23
Vinyl Acetate
Concen: 233.221 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

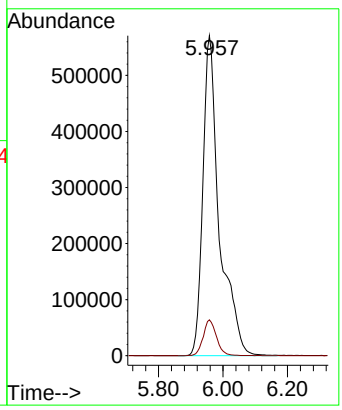
Tgt Ion: 43 Resp: 202523

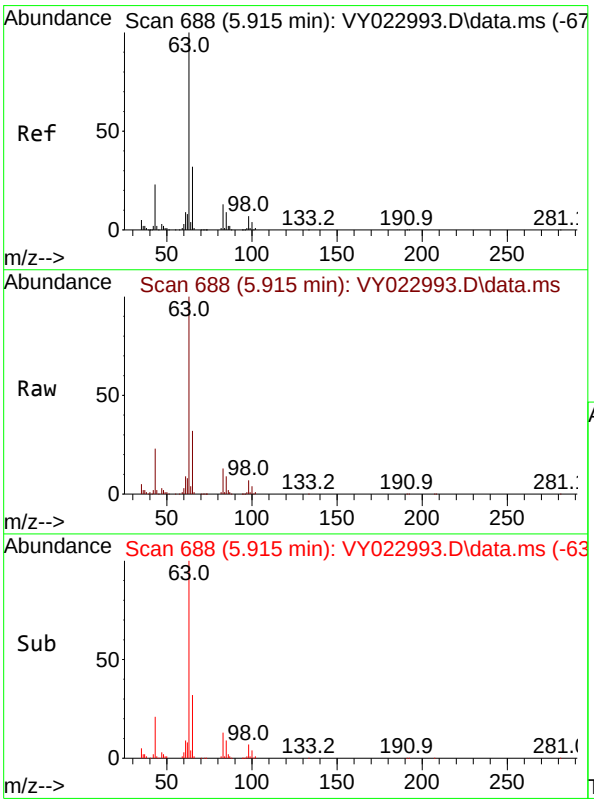
Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

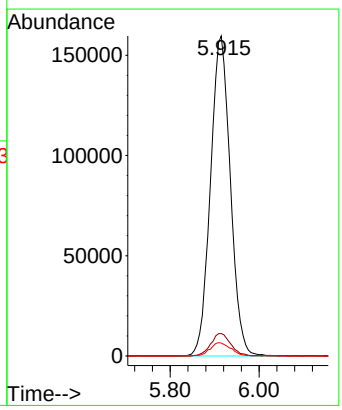


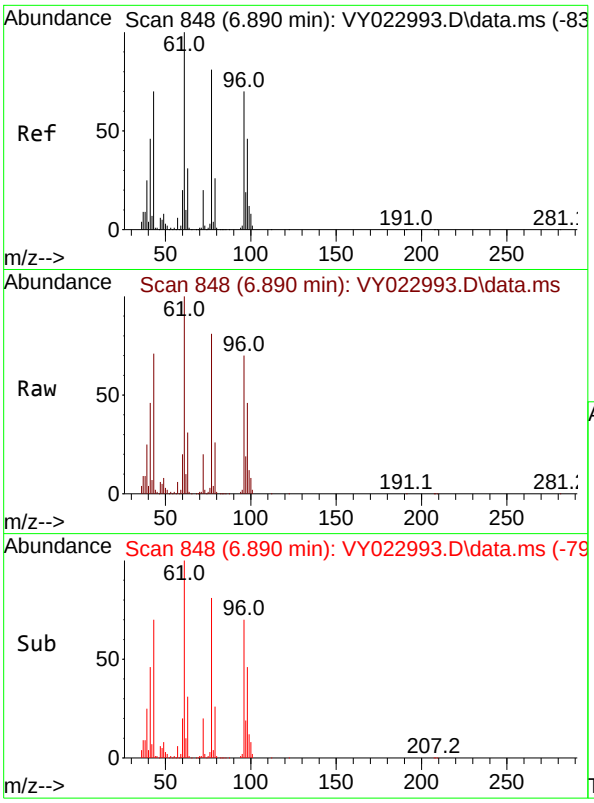


#24
1,1-Dichloroethane
Concen: 45.718 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 63 Resp: 494896

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.1	2.1	6.2

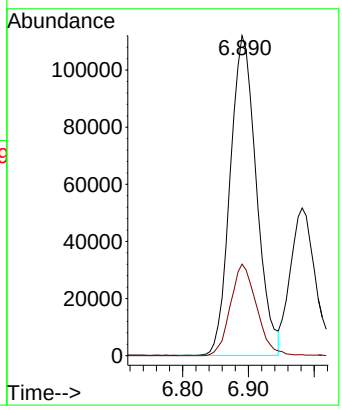




#25
2-Butanone
Concen: 233.963 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 30907

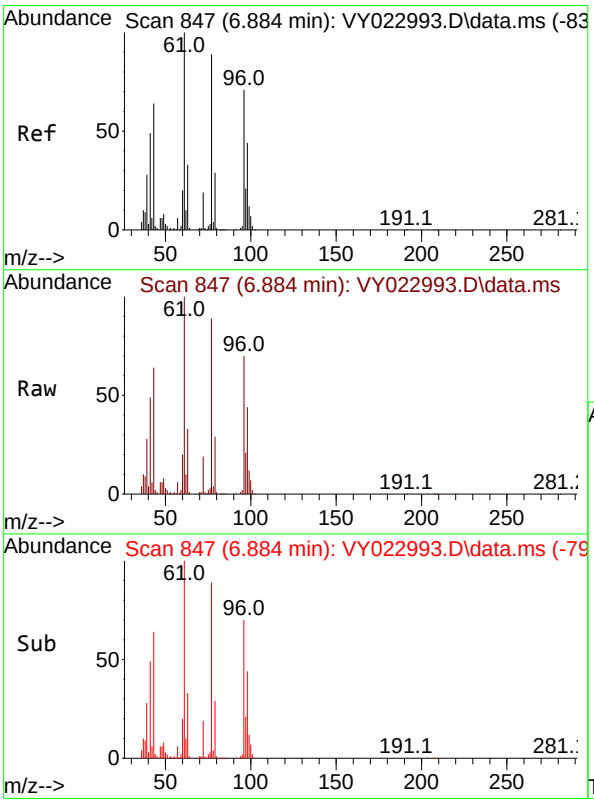
Ion	Ratio	Lower	Upper
43	100		
72	28.6	22.9	34.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

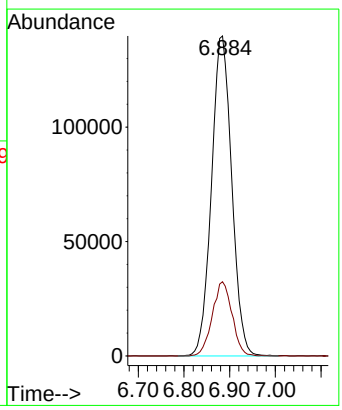
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

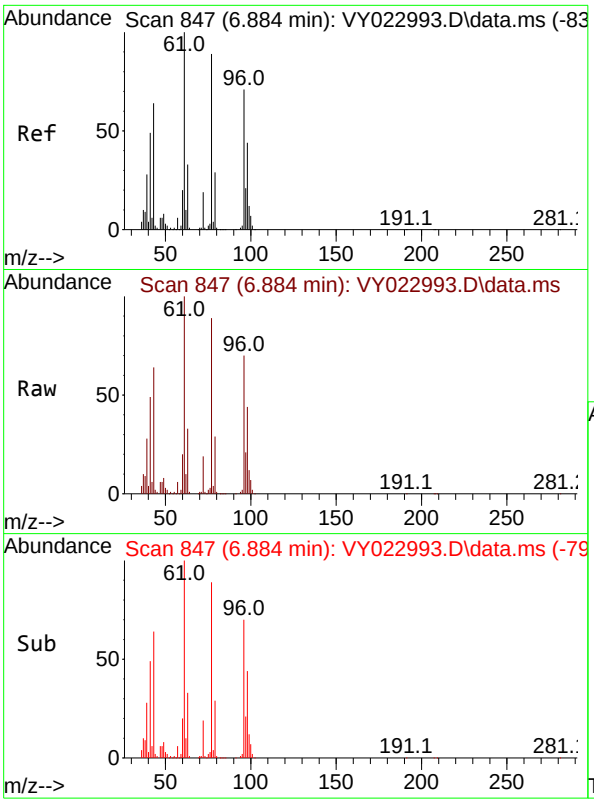


#26
2,2-Dichloropropane
Concen: 45.386 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 77 Resp: 430578

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.3	33.9

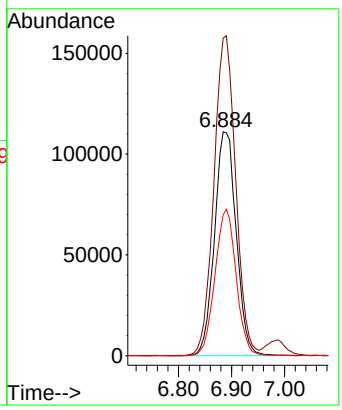




#27
cis-1,2-Dichloroethene
Concen: 46.253 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 96 Resp: 31640

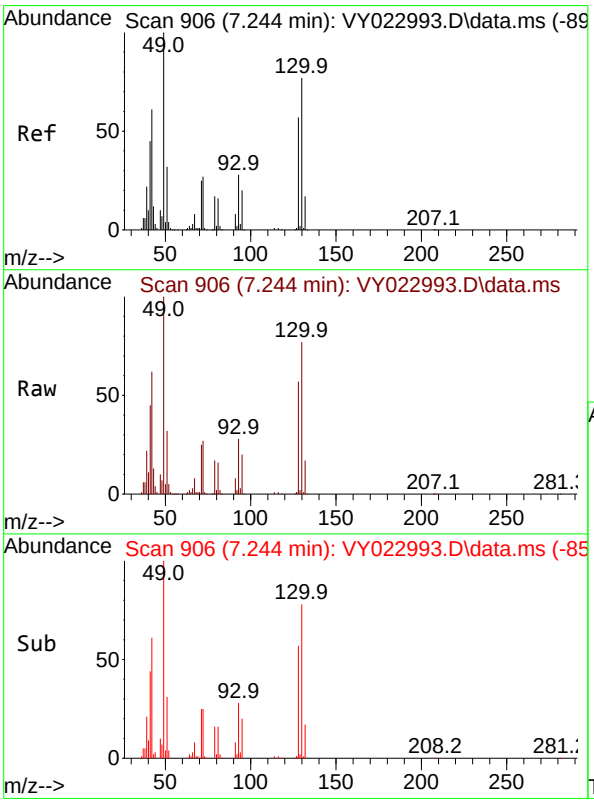
Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	286.2
98	63.7	0.0	127.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

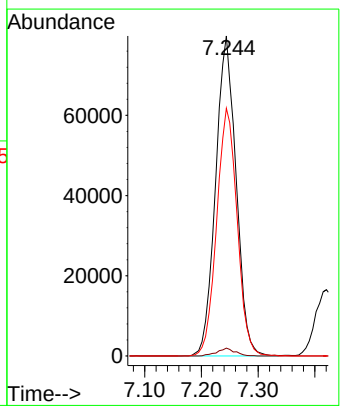
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

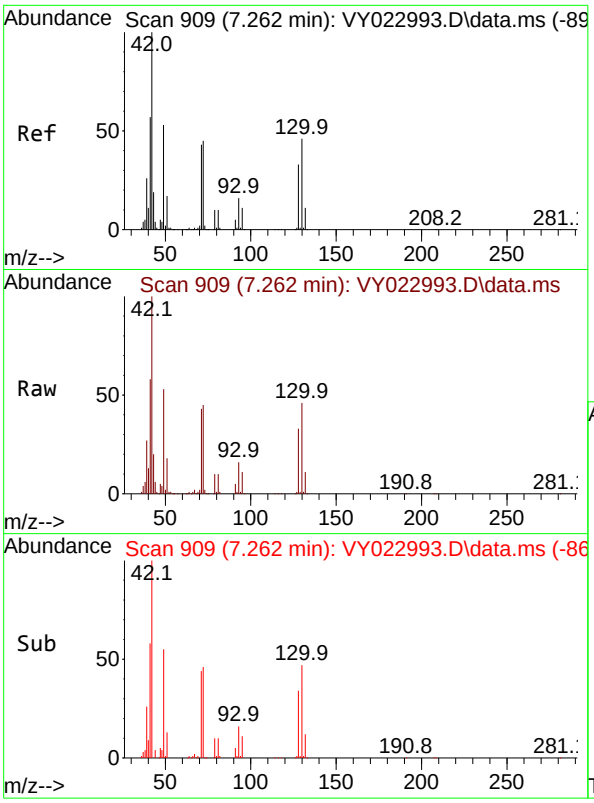


#28
Bromochloromethane
Concen: 47.598 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 49 Resp: 199840

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	77.3	61.8	92.8





#29
Tetrahydrofuran
Concen: 244.270 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

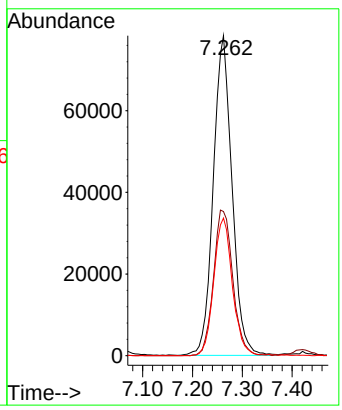
Tgt Ion: 42 Resp: 20430

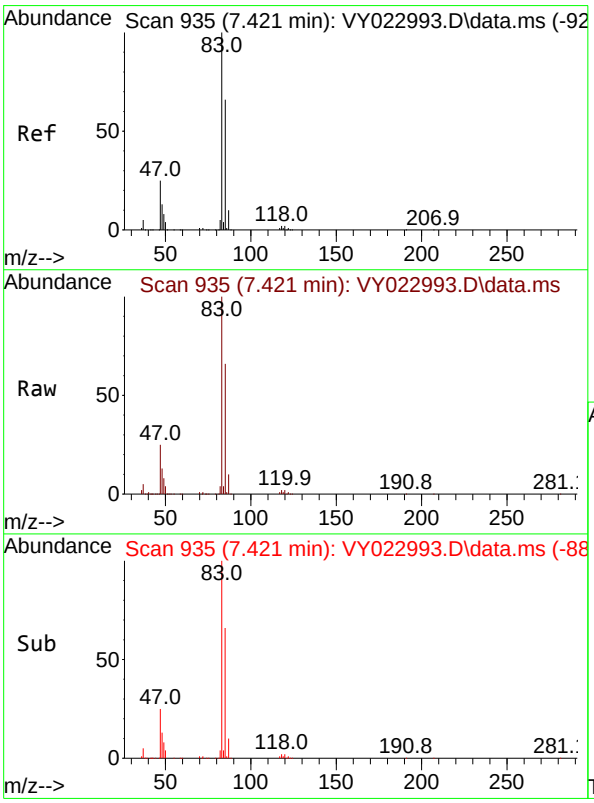
Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.5	56.3
71	42.8	34.2	51.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

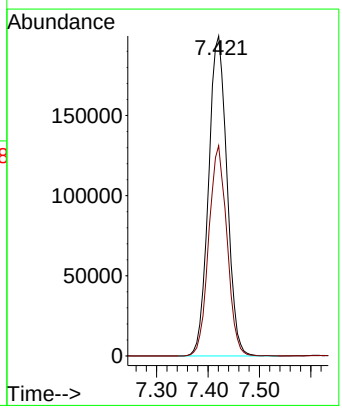


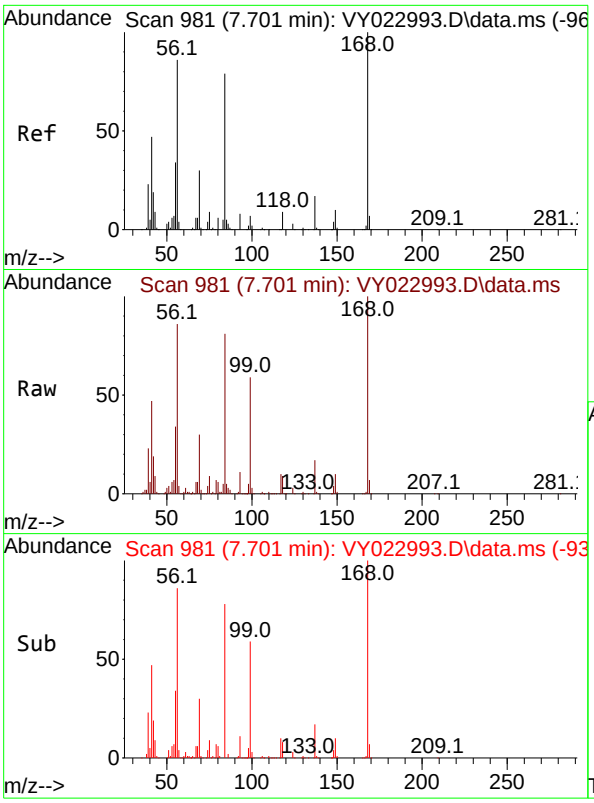


#30
Chloroform
Concen: 45.518 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 83 Resp: 497058

Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.6	78.8

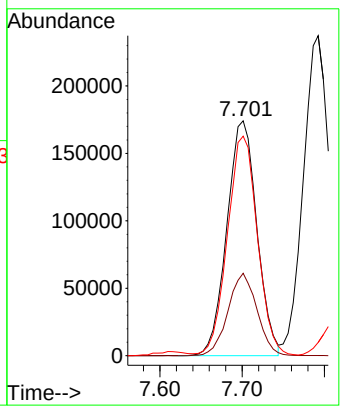




#31
Cyclohexane
Concen: 43.650 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 56 Resp: 44150

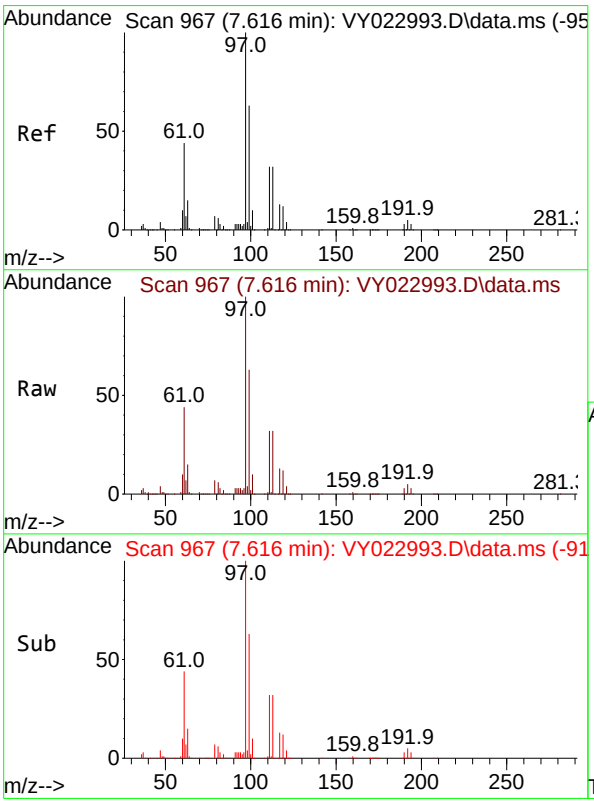
Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.1	42.1
84	91.9	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

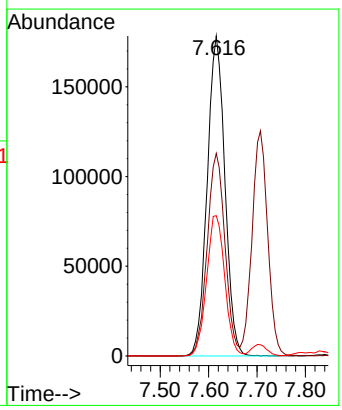
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

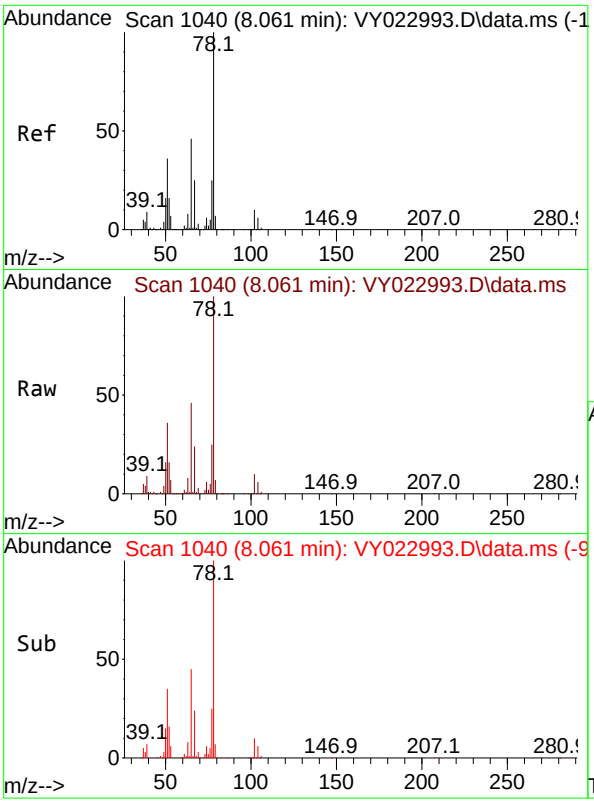


#32
1,1,1-Trichloroethane
Concen: 45.738 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 97 Resp: 453173

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	45.1	36.1	54.1

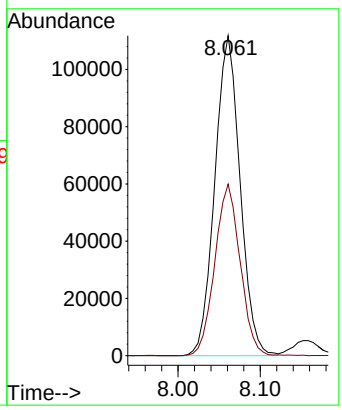




#33
1,2-Dichloroethane-d4
Concen: 47.050 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 65 Resp: 23901

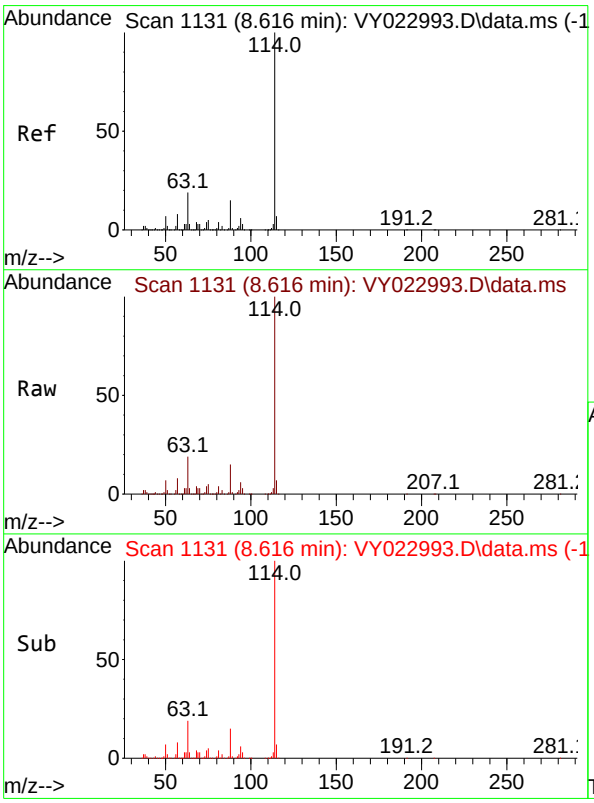
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

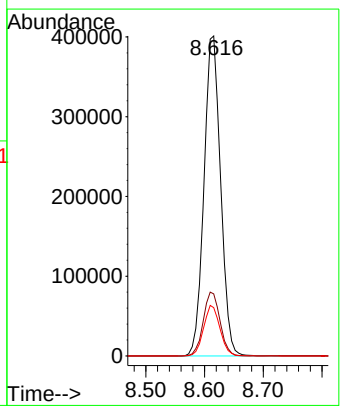
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

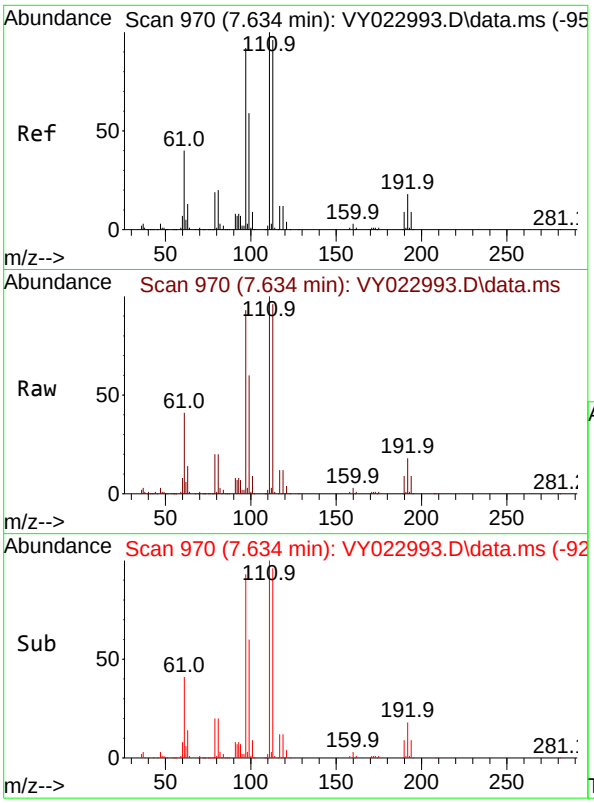


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:114 Resp: 789191

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.8
88	15.1	0.0	30.2

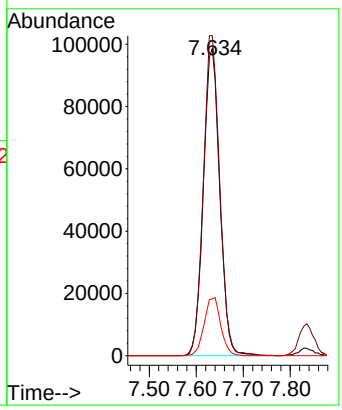




#35
Dibromofluoromethane
Concen: 47.590 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:113 Resp: 23824

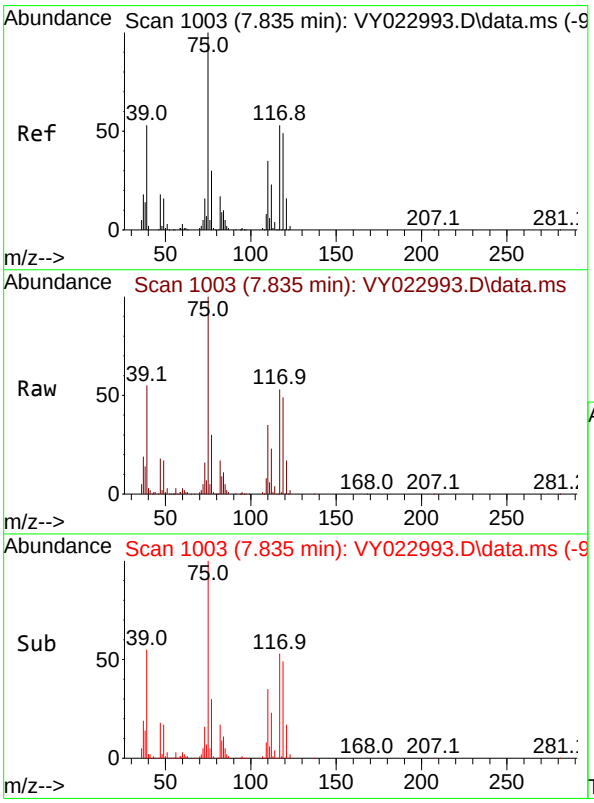
Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.2	124.8
192	19.1	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

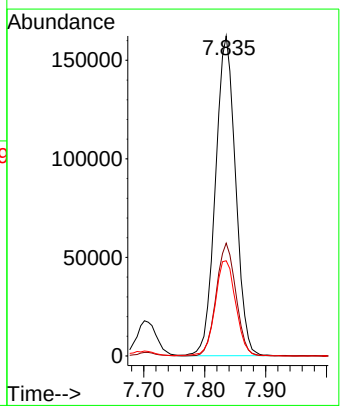
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

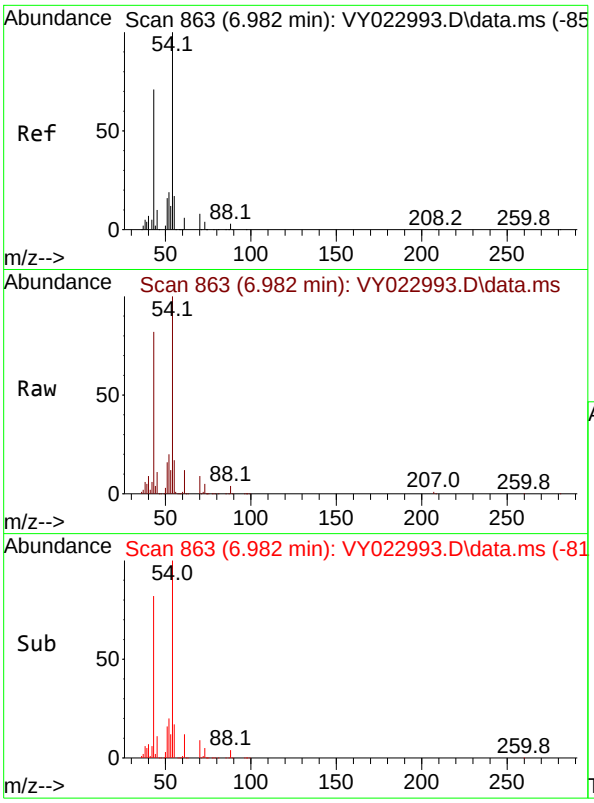


#36
1,1-Dichloropropene
Concen: 47.196 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 372166

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	30.8	24.6	37.0





#37
Ethyl Acetate
Concen: 47.445 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

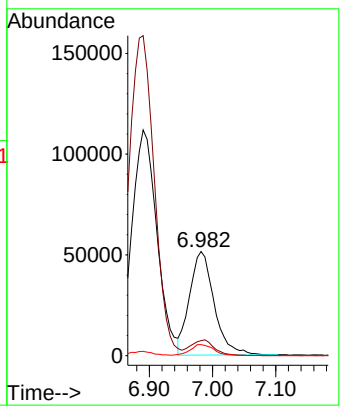
Tgt Ion: 43 Resp: 13894

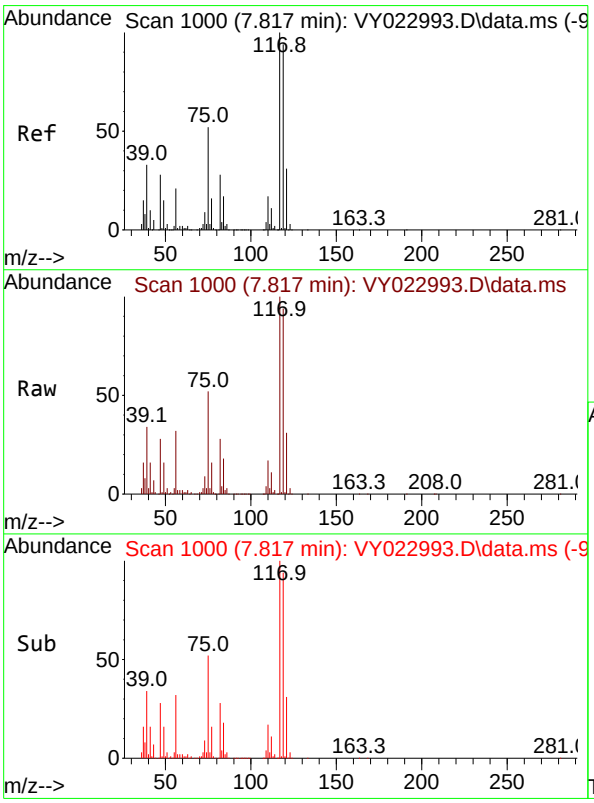
Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	10.6	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

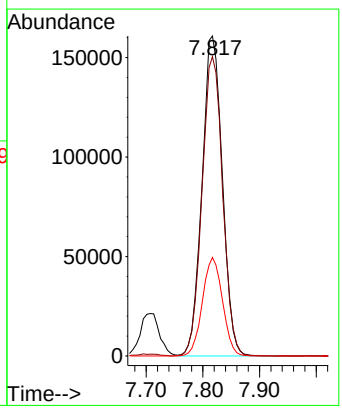


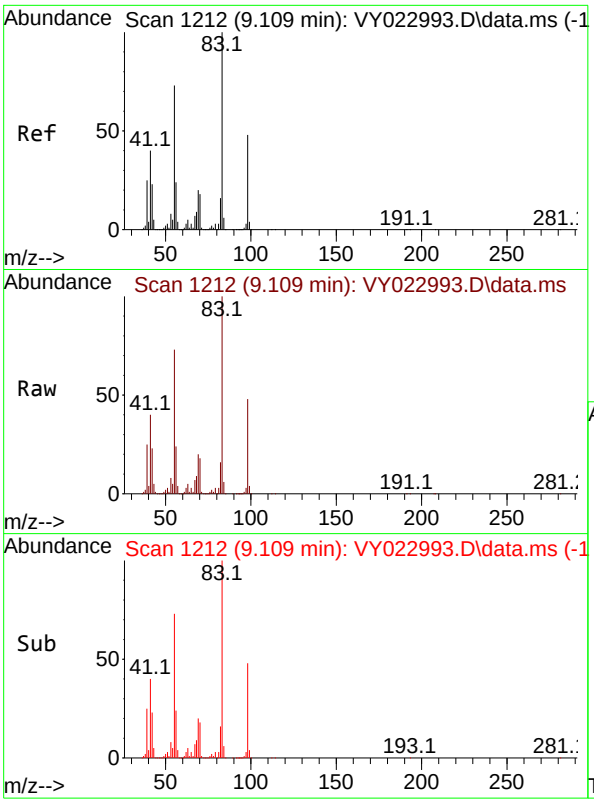


#38
Carbon Tetrachloride
Concen: 46.760 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:117 Resp: 400589

Ion	Ratio	Lower	Upper
117	100		
119	93.6	74.9	112.3
121	30.8	24.6	37.0

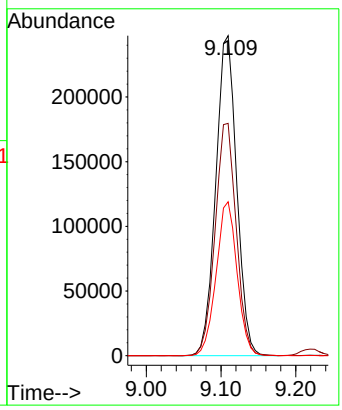




#39
Methylcyclohexane
Concen: 47.256 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 83 Resp: 48231

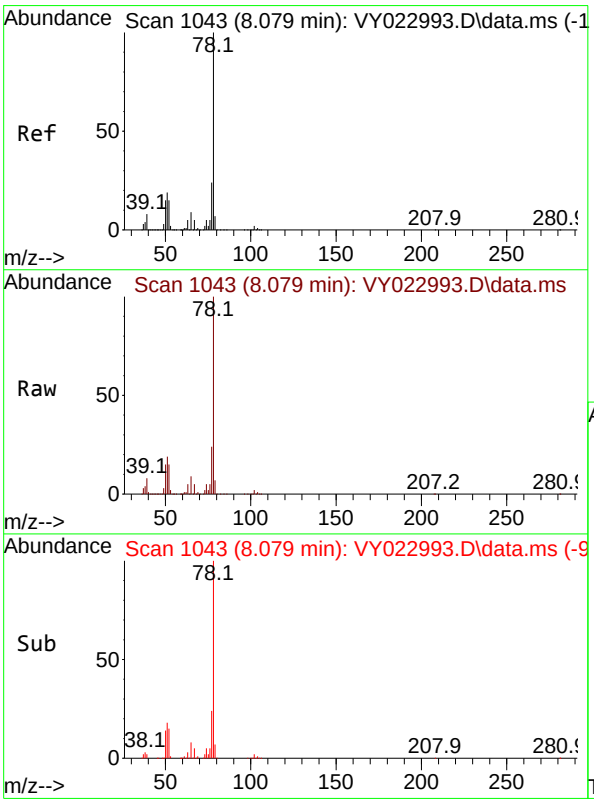
Ion	Ratio	Lower	Upper
83	100		
55	72.6	58.1	87.1
98	48.1	38.5	57.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

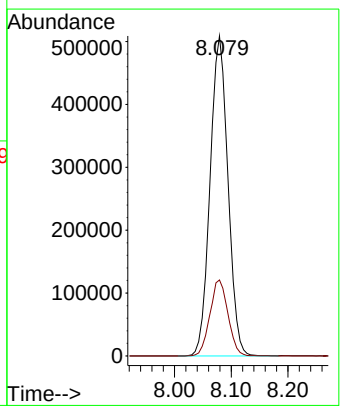
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

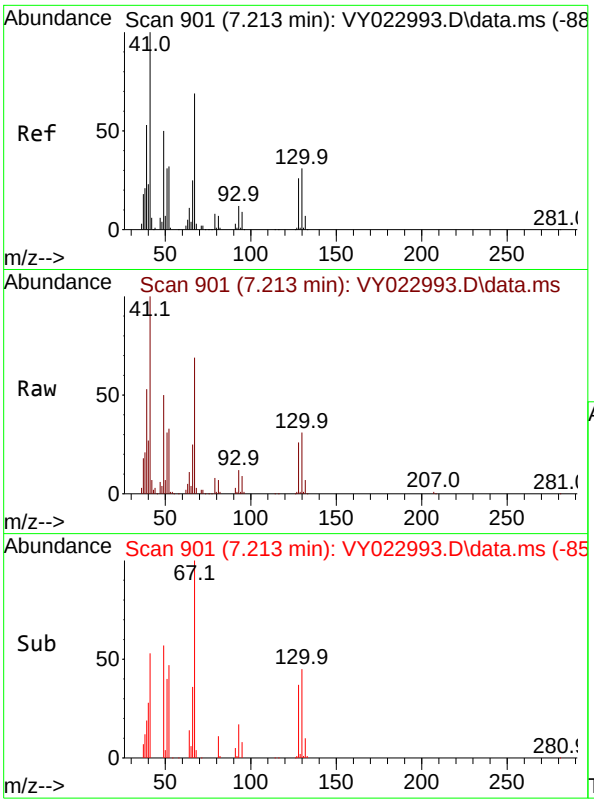


#40
Benzene
Concen: 46.911 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 78 Resp: 1113790

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

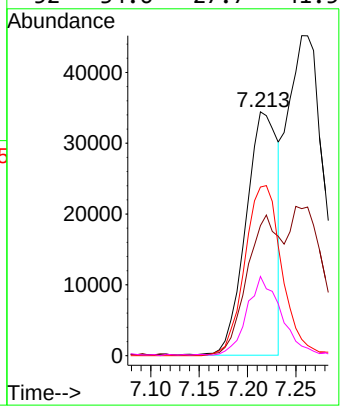




#41
Methacrylonitrile
Concen: 50.913 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 41 Resp: 7870

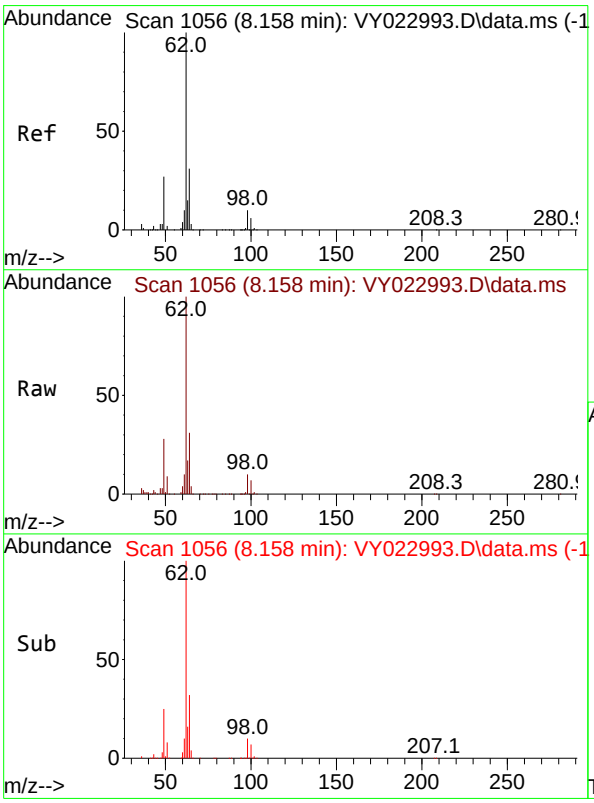
Ion	Ratio	Lower	Upper
41	100		
39	62.5	50.0	75.0
67	81.8	65.4	98.2
52	34.6	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

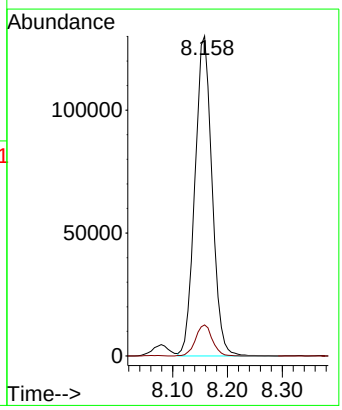
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

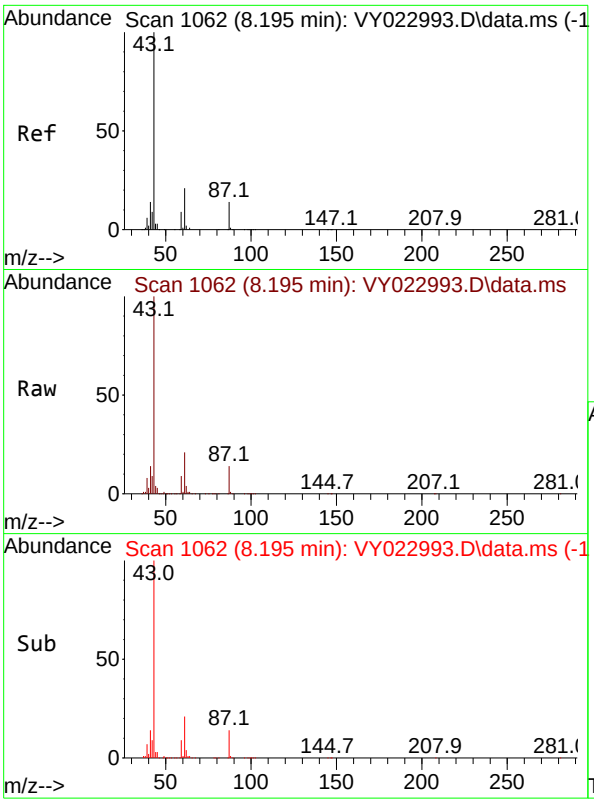


#42
1,2-Dichloroethane
Concen: 47.867 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 62 Resp: 282749

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0





#43
Isopropyl Acetate
Concen: 49.524 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

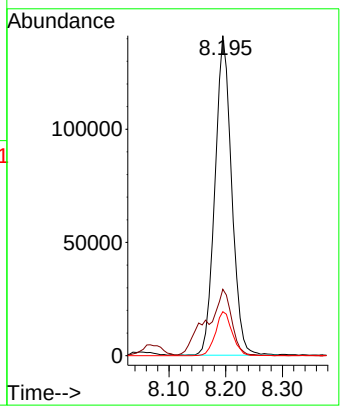
Tgt Ion: 43 Resp: 28809

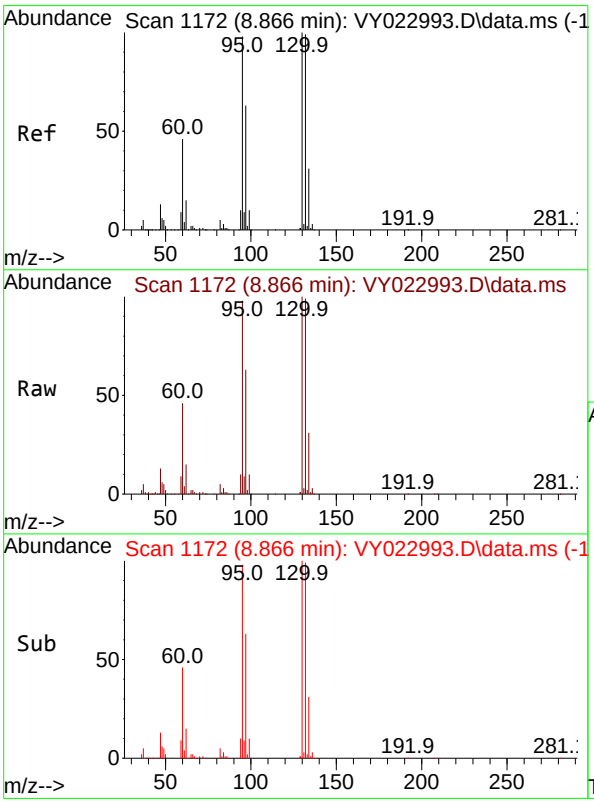
Ion	Ratio	Lower	Upper
43	100		
61	31.2	25.0	37.4
87	13.9	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

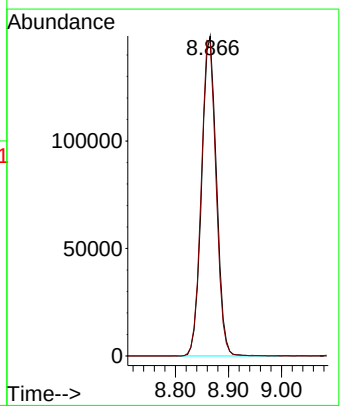


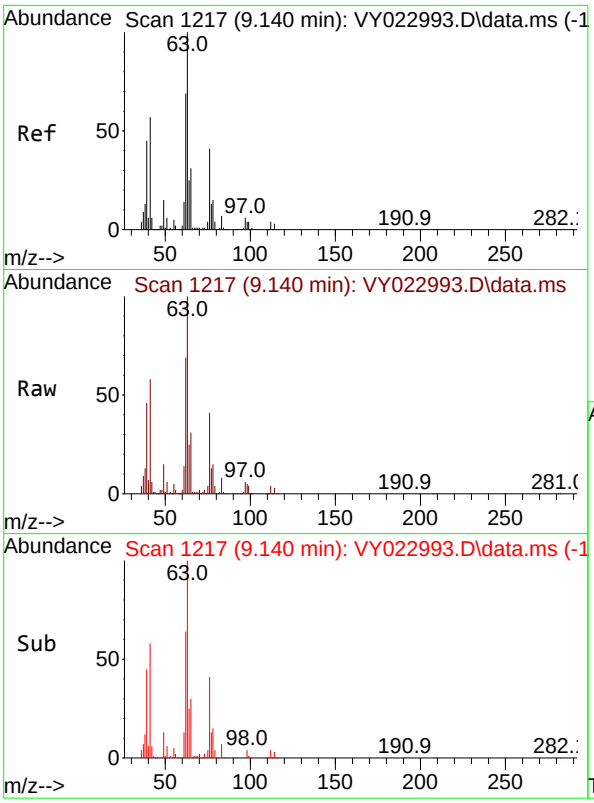


#44
Trichloroethene
Concen: 47.253 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:130 Resp: 288157

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	195.8





#45
1,2-Dichloropropane
Concen: 46.536 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

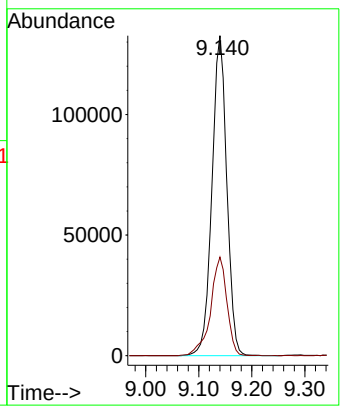
Tgt Ion: 63 Resp: 25801

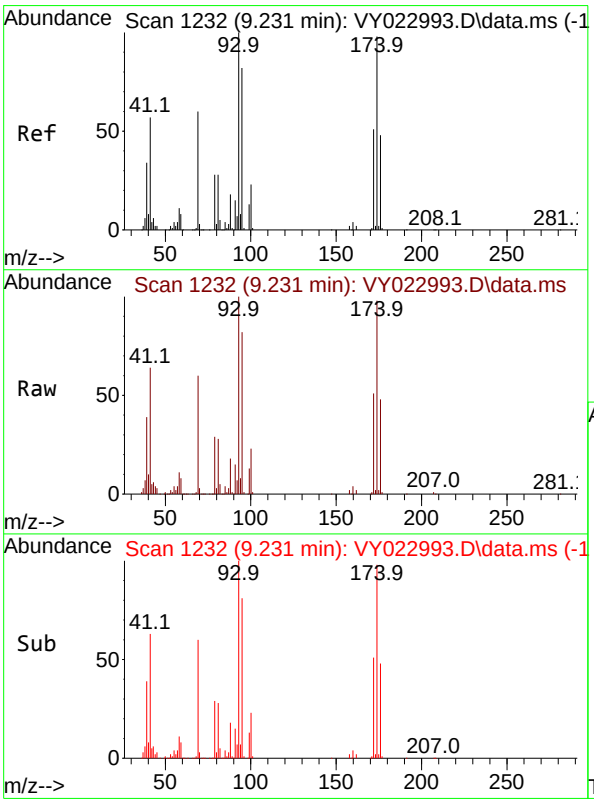
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

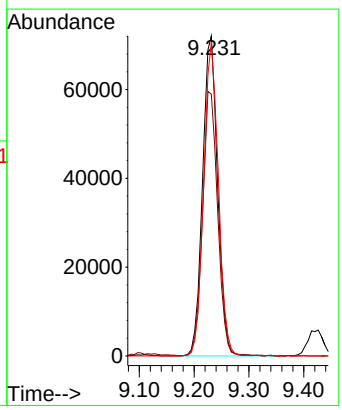


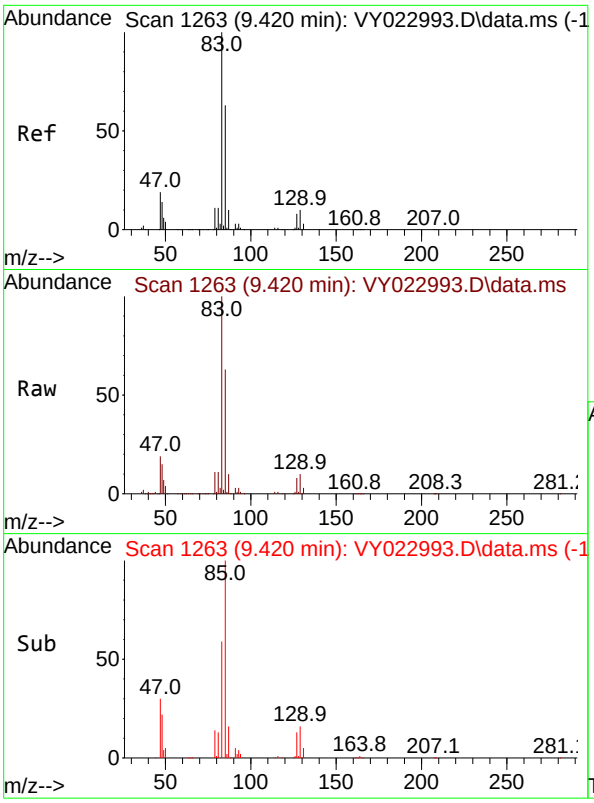


#46
Dibromomethane
Concen: 47.840 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 93 Resp: 137104

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.9	98.9
174	95.5	76.4	114.6

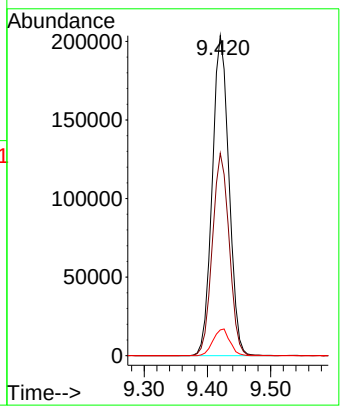




#47
Bromodichloromethane
Concen: 47.086 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 83 Resp: 37301

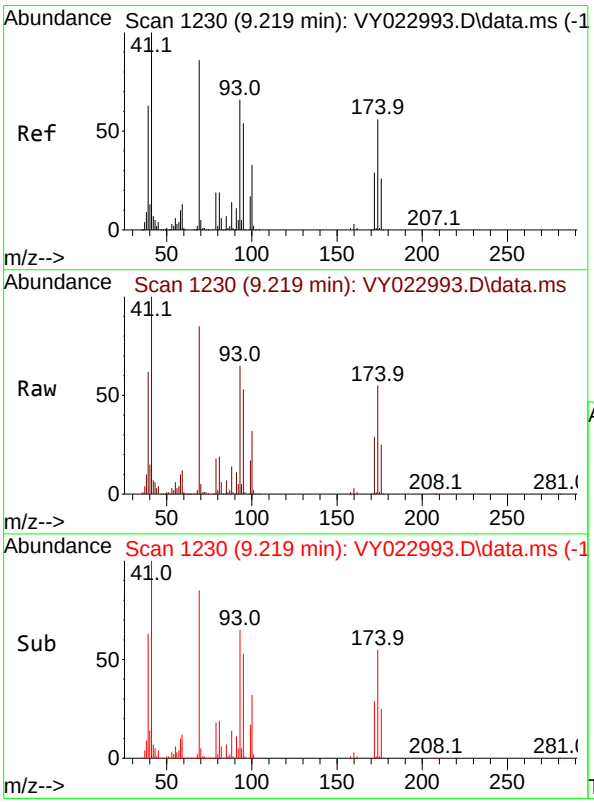
Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.1	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

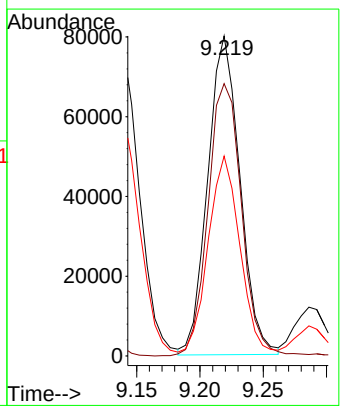
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

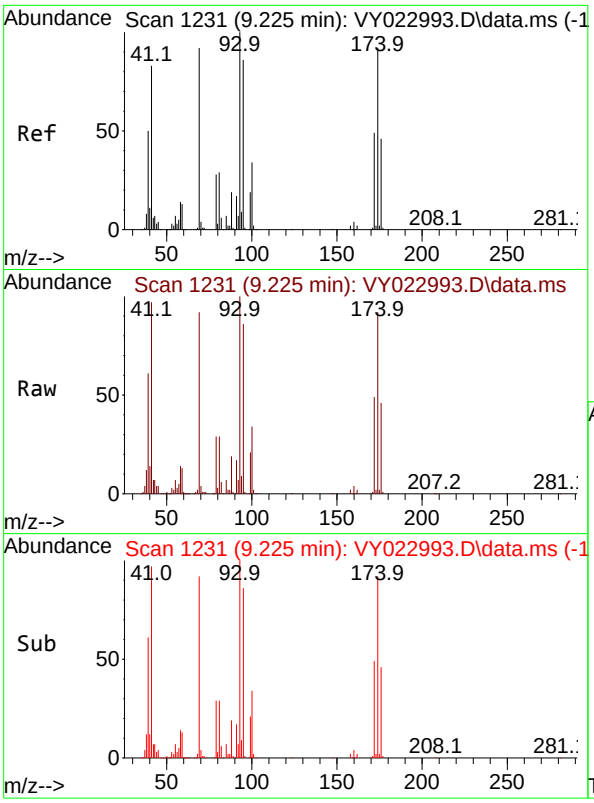


#48
Methyl methacrylate
Concen: 50.507 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 41 Resp: 141851

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	59.8	47.8	71.8





#49
1,4-Dioxane
Concen: 993.216 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

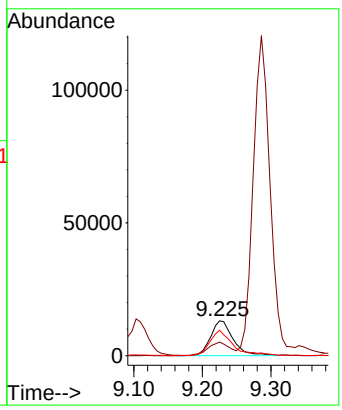
Tgt Ion: 88 Resp: 3000

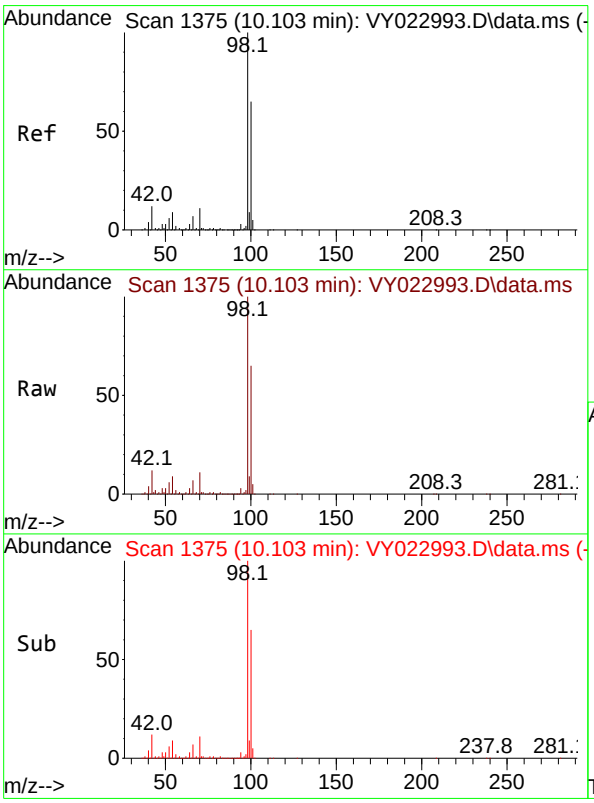
Ion	Ratio	Lower	Upper
88	100		
43	35.9	28.7	43.1
58	74.7	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

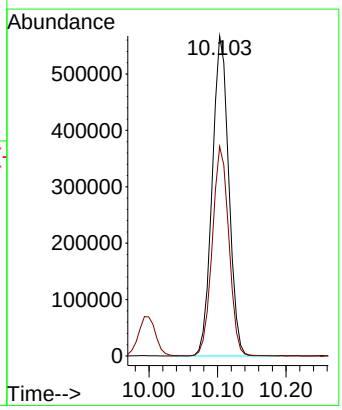


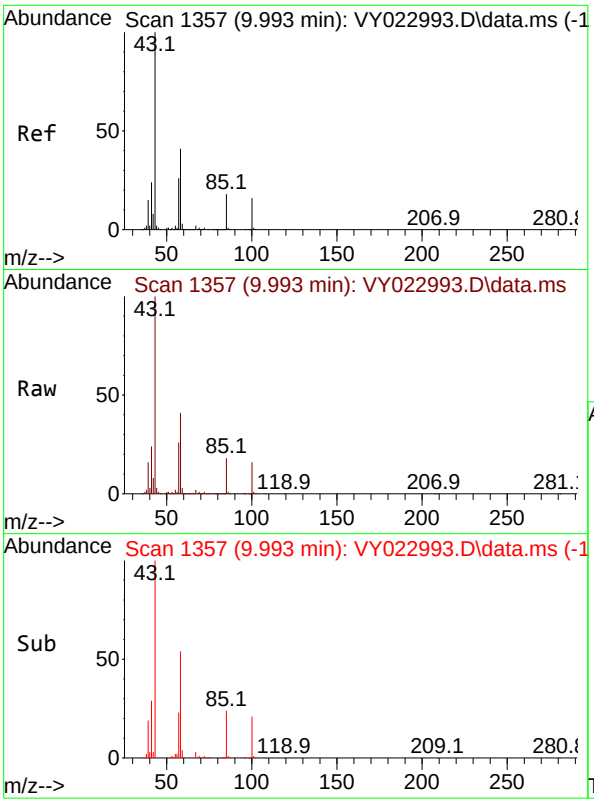


#50
Toluene-d8
Concen: 47.886 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 98 Resp: 950656

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2

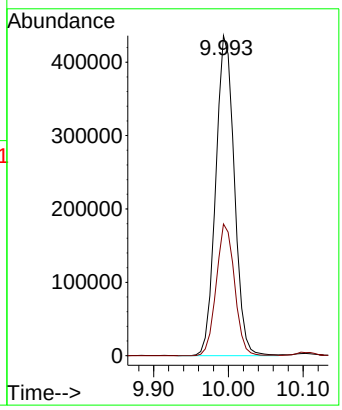




#51
4-Methyl-2-Pentanone
Concen: 255.467 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 75431

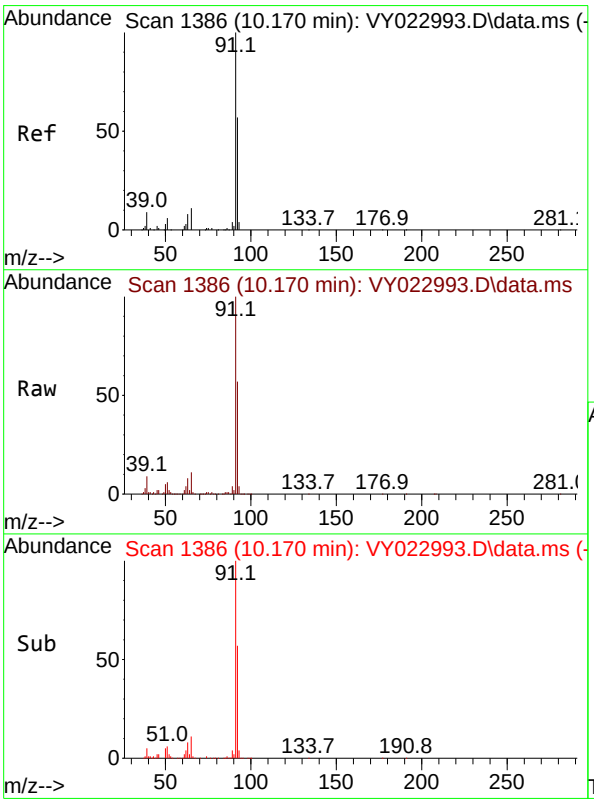
Ion	Ratio	Lower	Upper
43	100		
58	40.6	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

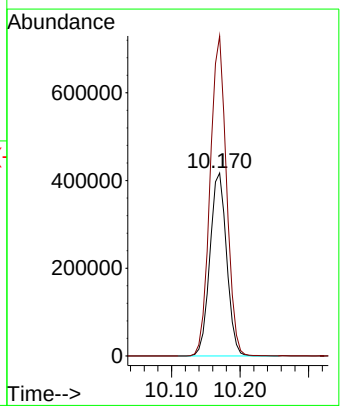
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

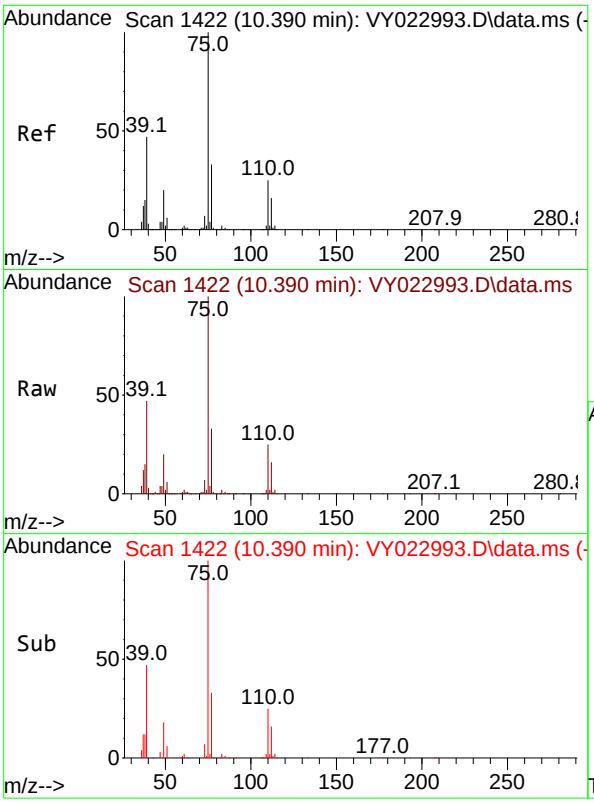


#52
Toluene
Concen: 47.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 92 Resp: 703655

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.8	206.6

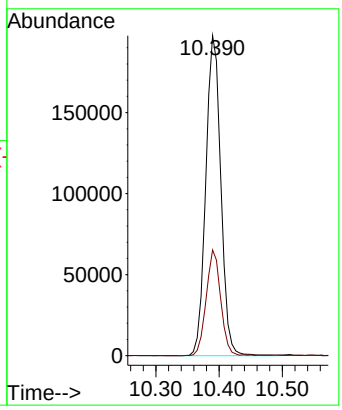




#53
t-1,3-Dichloropropene
Concen: 48.074 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 32690

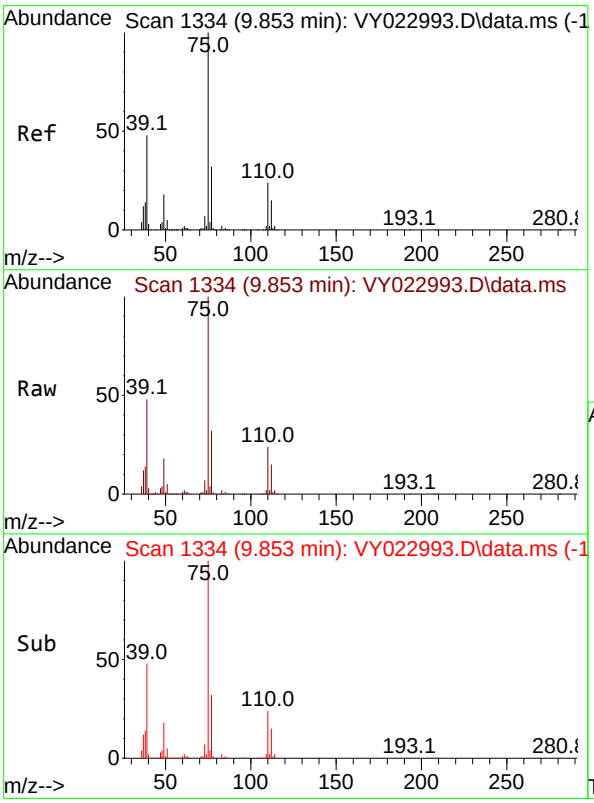
Ion	Ratio	Lower	Upper
75	100		
77	33.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

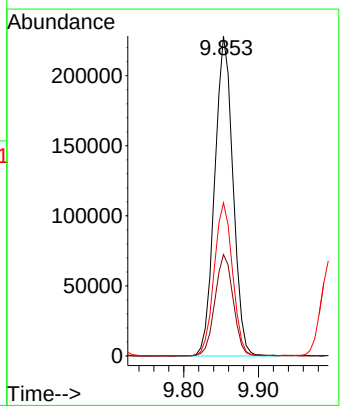
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

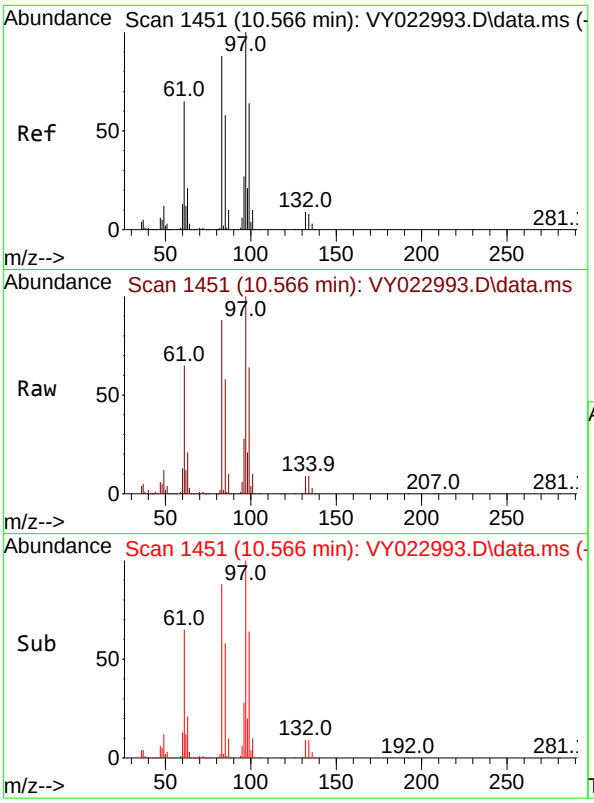


#54
cis-1,3-Dichloropropene
Concen: 47.380 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 388343

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	47.7	38.2	57.2

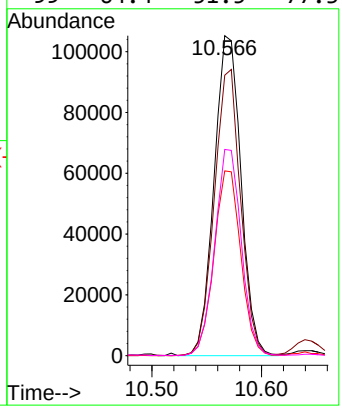




#55
1,1,2-Trichloroethane
Concen: 47.708 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 97 Resp: 17970

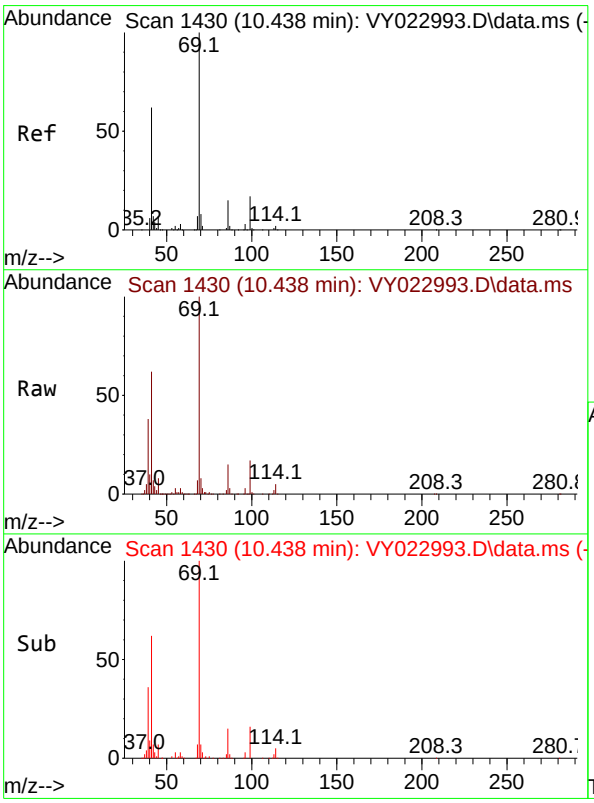
Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.2	105.2
85	57.7	46.2	69.2
99	64.4	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

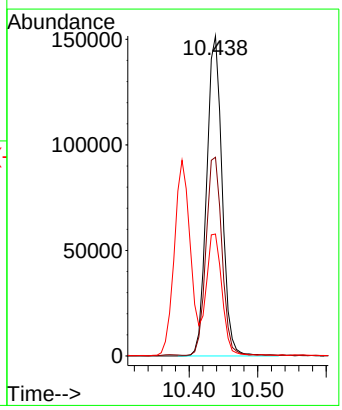
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

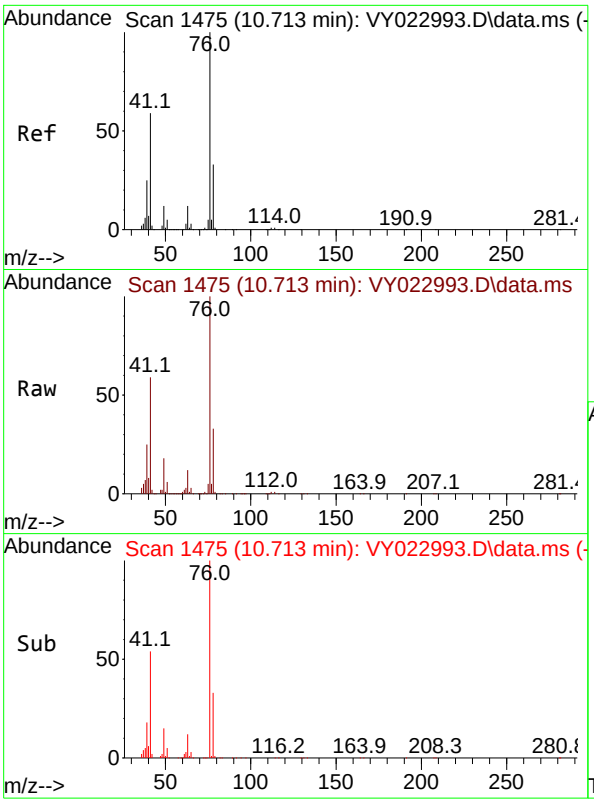


#56
Ethyl methacrylate
Concen: 50.527 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 69 Resp: 237585

Ion	Ratio	Lower	Upper
69	100		
41	63.7	51.0	76.4
39	38.3	30.6	46.0

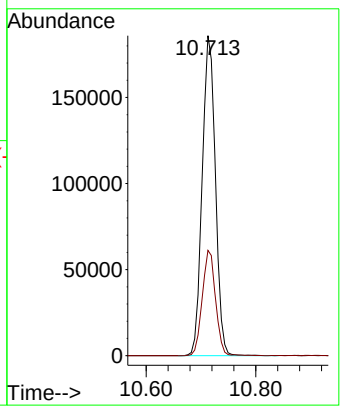




#57
1,3-Dichloropropane
Concen: 47.605 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 76 Resp: 30976

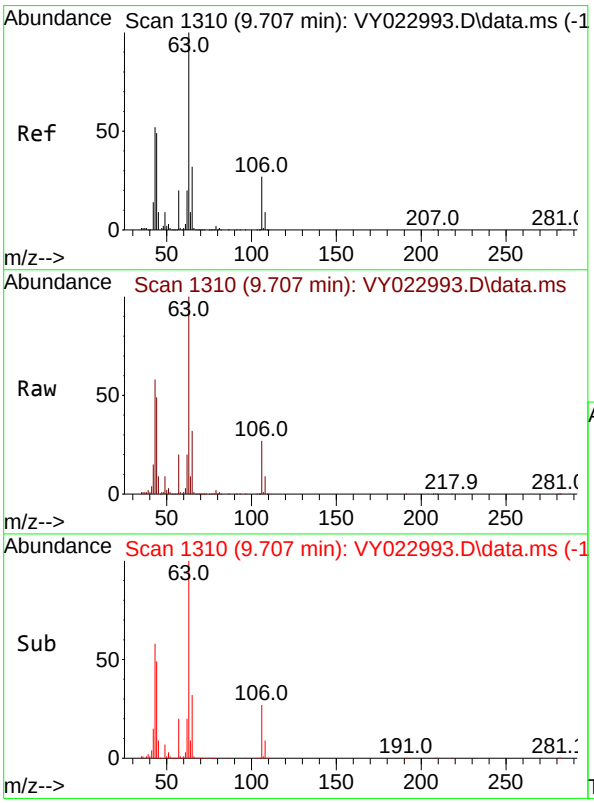
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

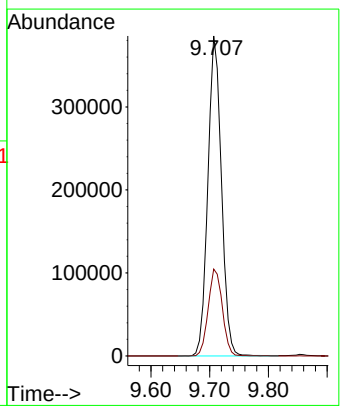
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

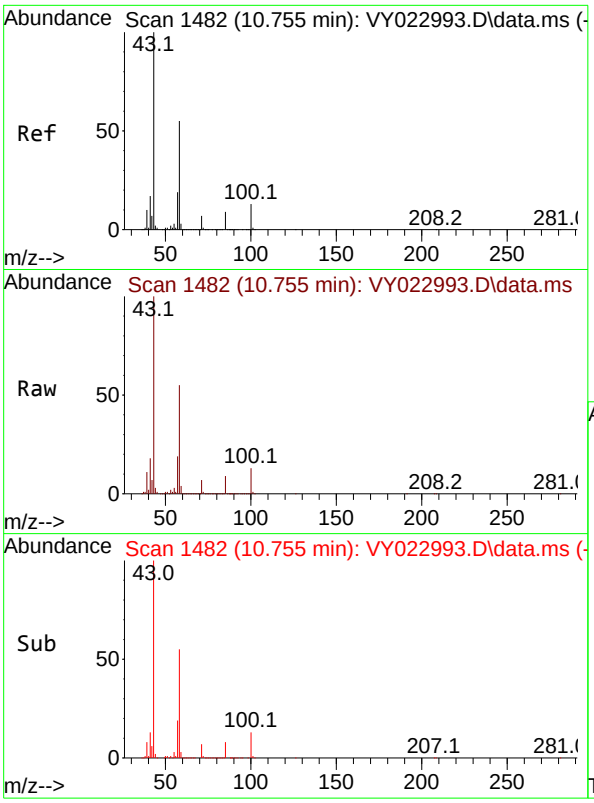


#58
2-Chloroethyl Vinyl ether
Concen: 268.792 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 63 Resp: 618691

Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.6	33.8





#59
2-Hexanone
Concen: 257.540 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

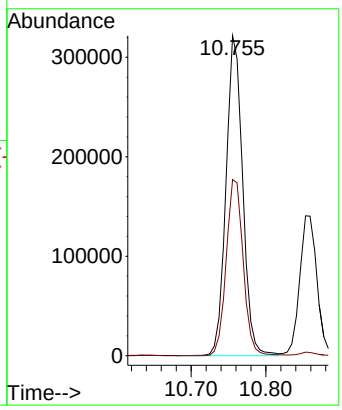
Tgt Ion: 43 Resp: 49984

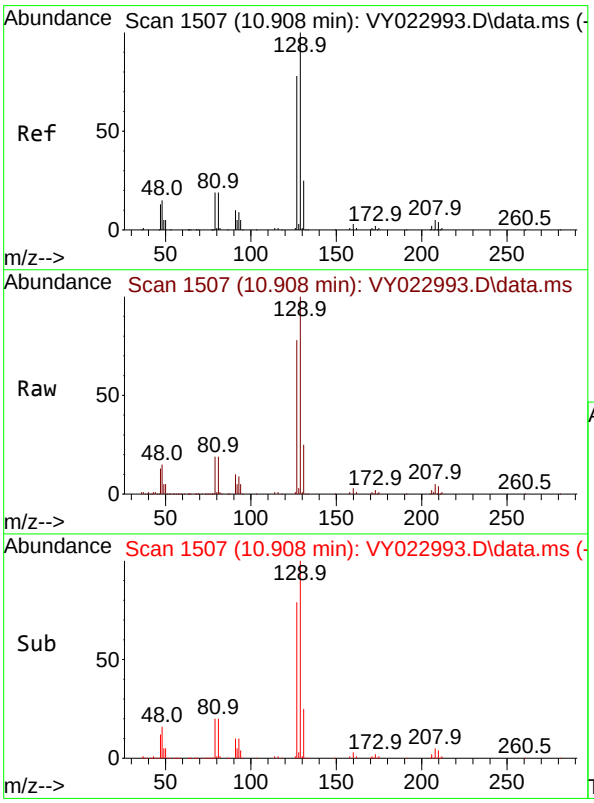
Ion	Ratio	Lower	Upper
43	100		
58	56.2	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

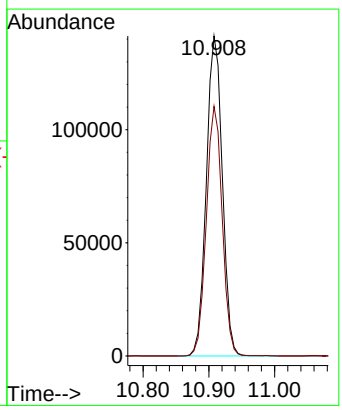


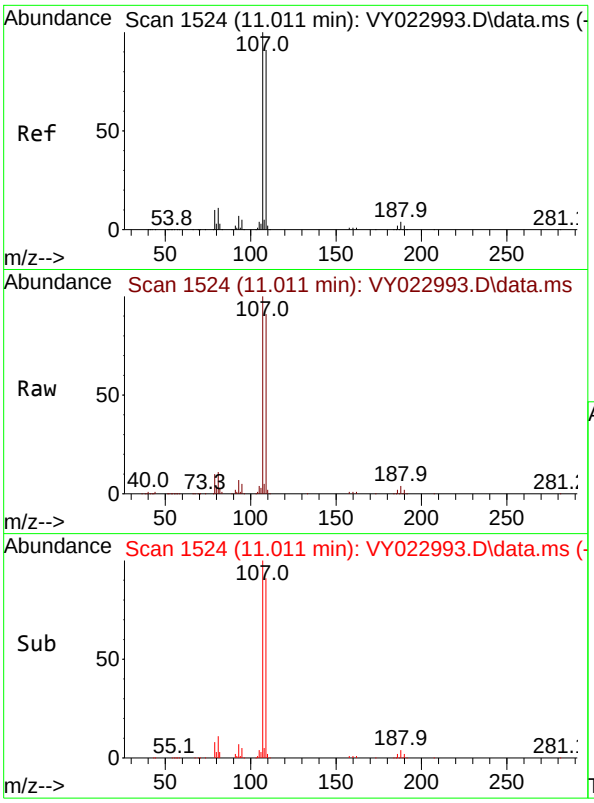


#60
Dibromochloromethane
Concen: 48.542 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:129 Resp: 239431

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.7	116.1

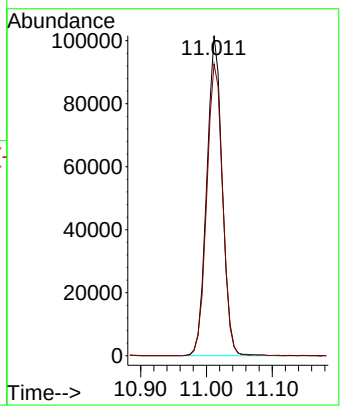




#61
1,2-Dibromoethane
Concen: 48.362 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:107 Resp: 16542

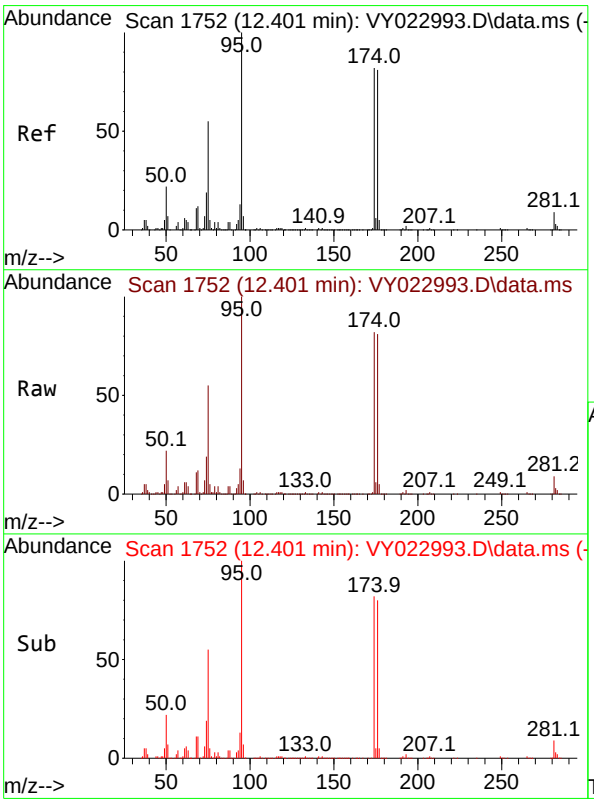
Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

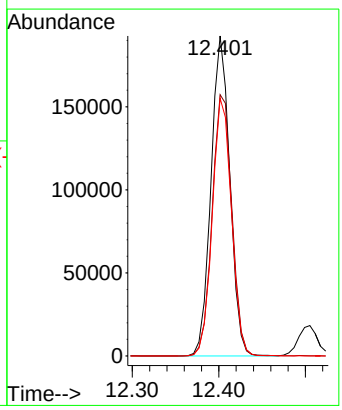
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

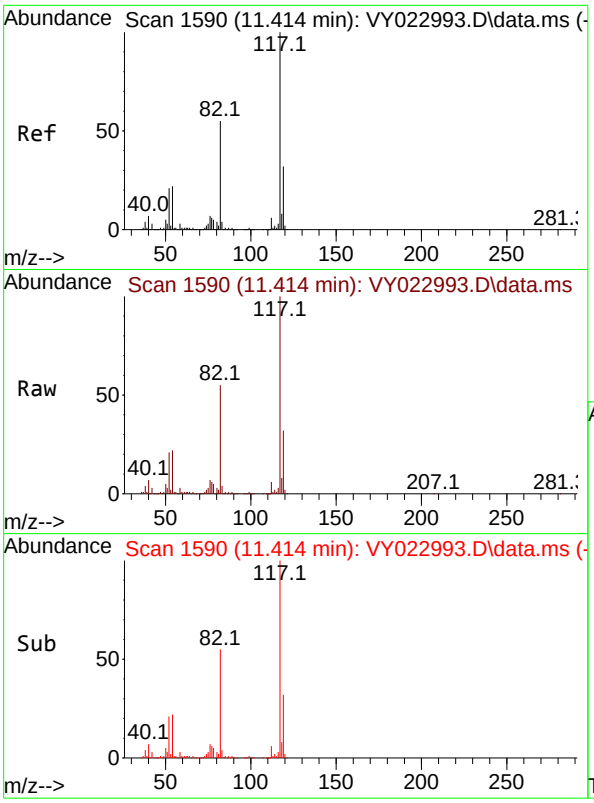


#62
4-Bromofluorobenzene
Concen: 46.597 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 95 Resp: 291196

Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	170.8
176	81.8	0.0	163.6

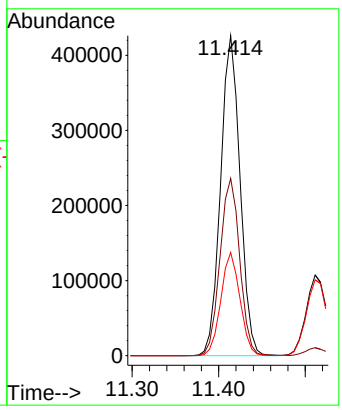




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:117 Resp: 66428

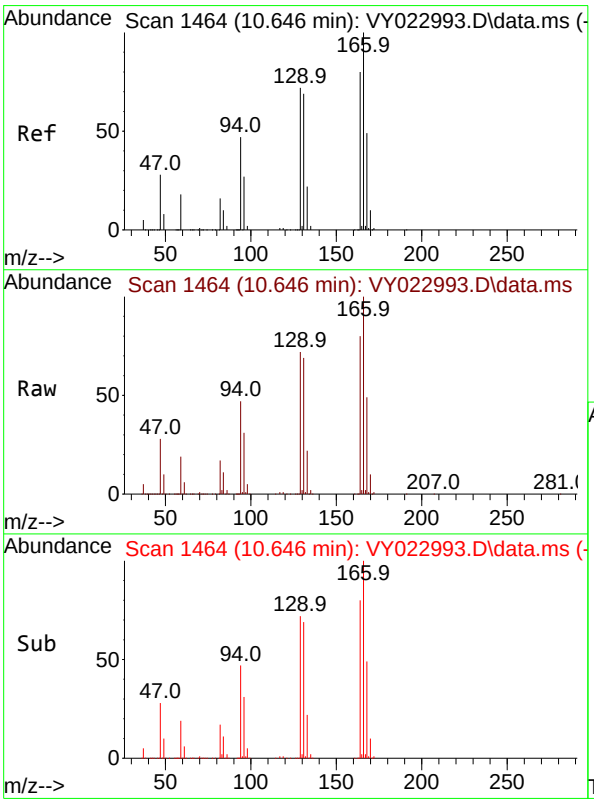
Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.3	66.5
119	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

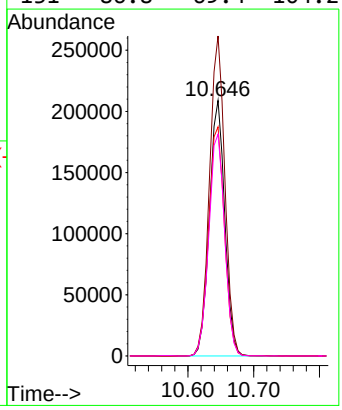
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

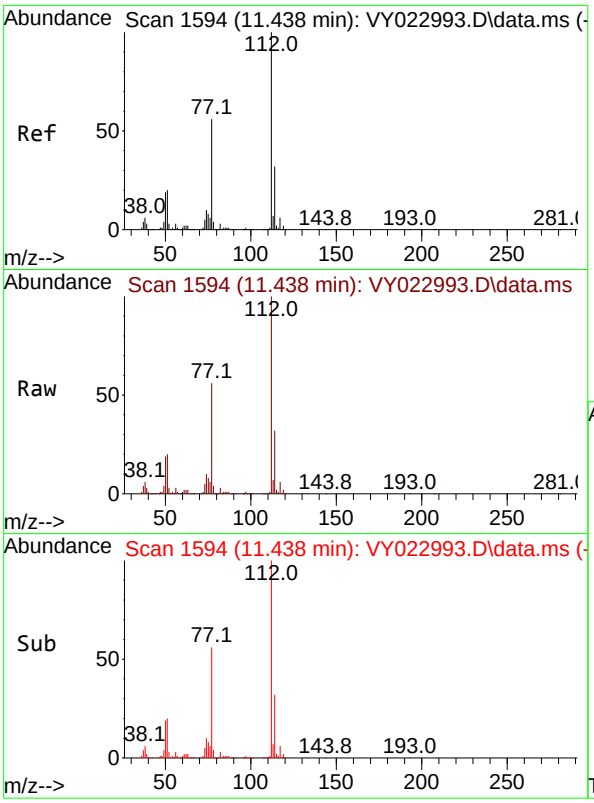


#64
Tetrachloroethene
Concen: 50.177 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:164 Resp: 340698

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	89.6	71.7	107.5
131	86.8	69.4	104.2





#65
Chlorobenzene
Concen: 47.205 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

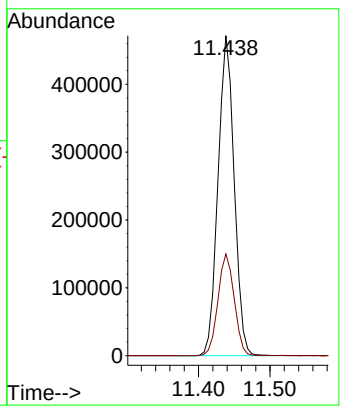
Tgt Ion:112 Resp: 73995

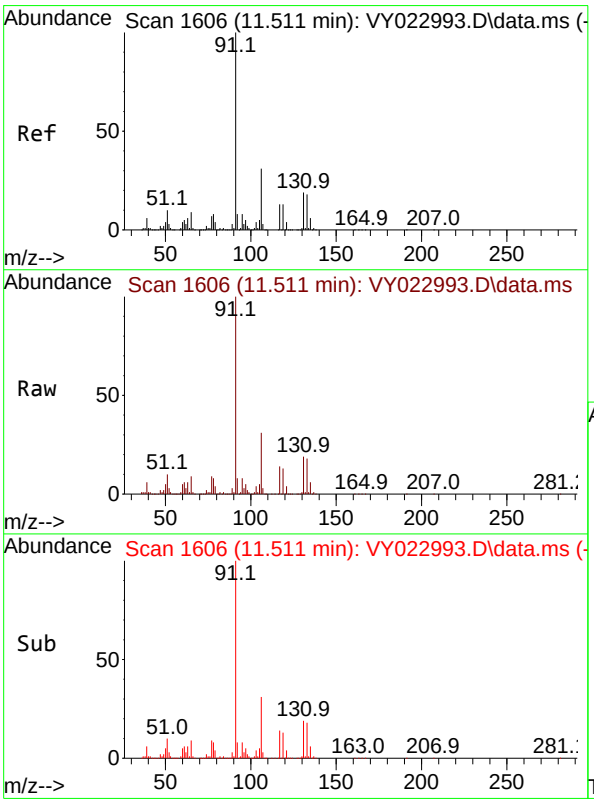
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

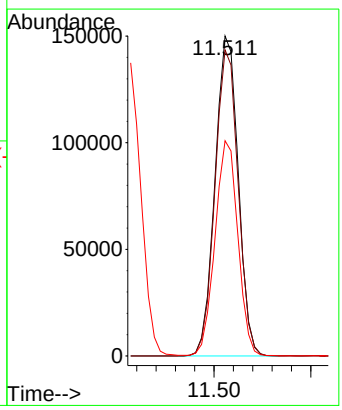


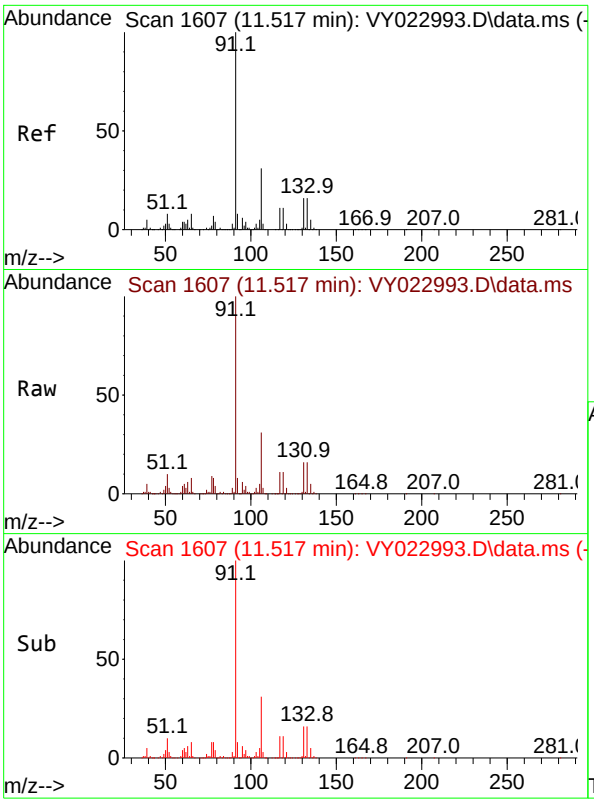


#66
1,1,1,2-Tetrachloroethane
Concen: 46.683 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:131 Resp: 249587

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.8	143.3
119	66.5	33.3	99.8





#67
Ethyl Benzene
Concen: 47.990 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

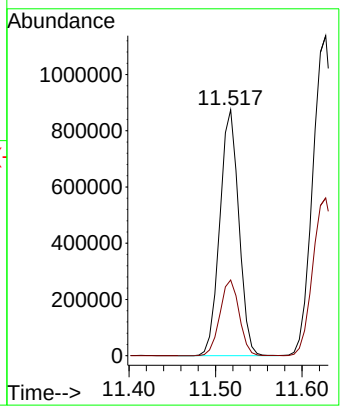
Tgt Ion: 91 Resp: 133338

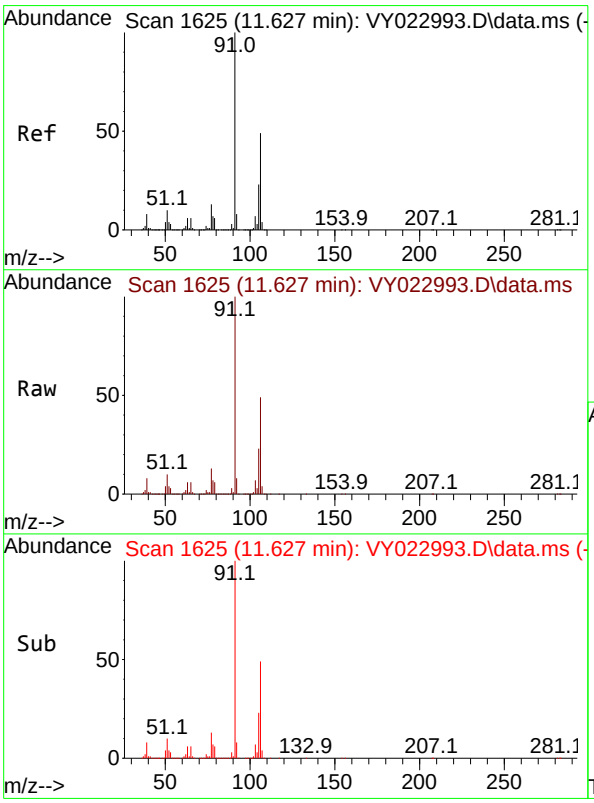
Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

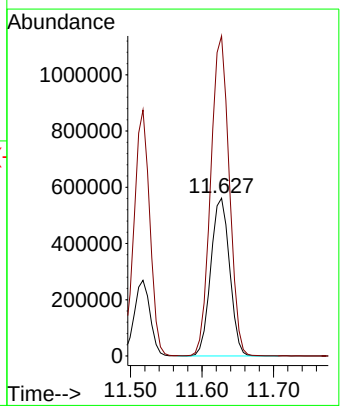


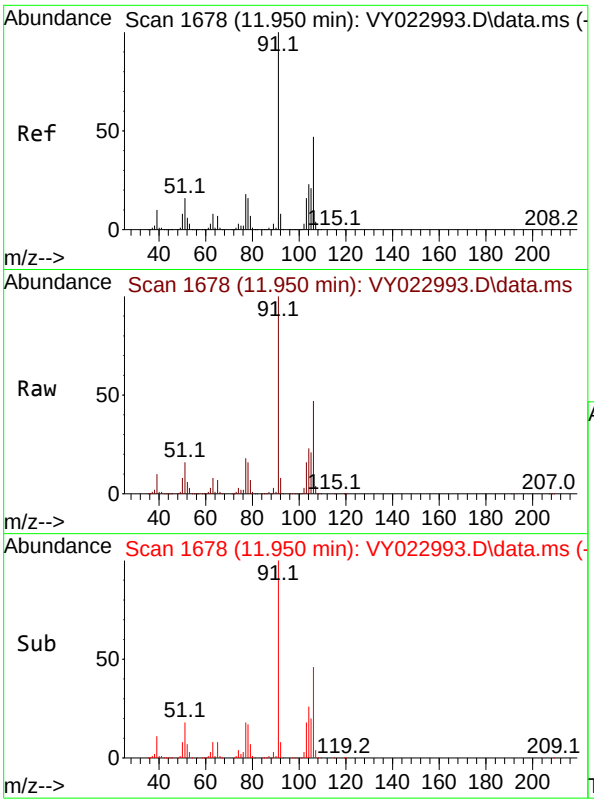


#68
m/p-Xylenes
Concen: 96.245 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:106 Resp: 1025693

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8

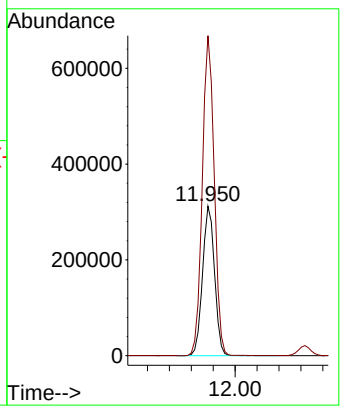




#69
o-Xylene
Concen: 47.893 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:106 Resp: 47366

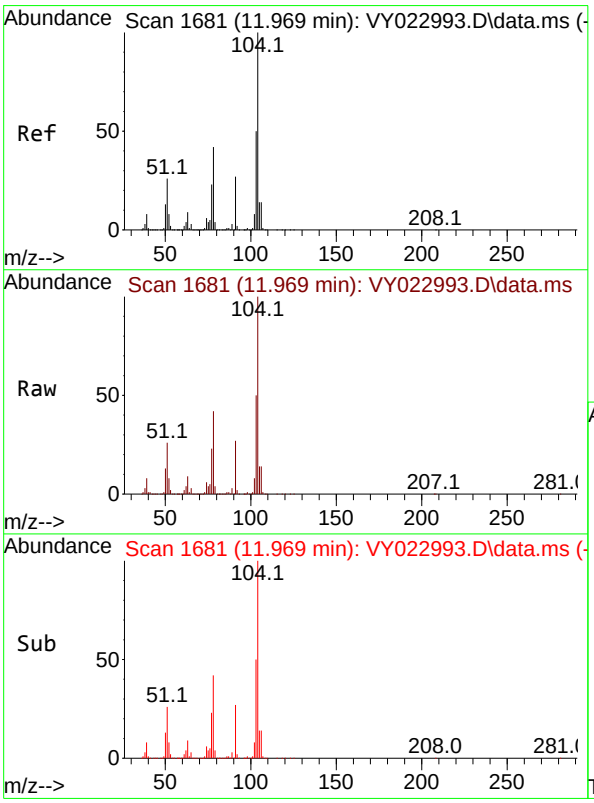
Ion	Ratio	Lower	Upper
106	100		
91	212.5	106.3	318.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

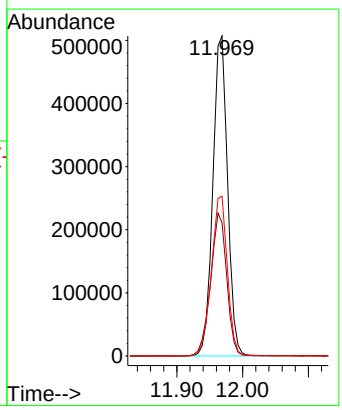
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

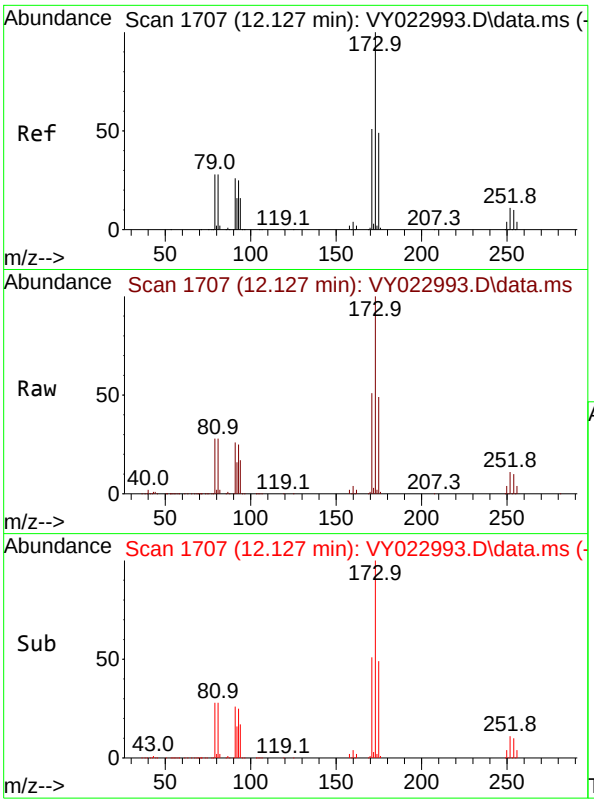


#70
Styrene
Concen: 48.697 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:104 Resp: 788910

Ion	Ratio	Lower	Upper
104	100		
78	48.8	39.0	58.6
103	54.6	43.7	65.5

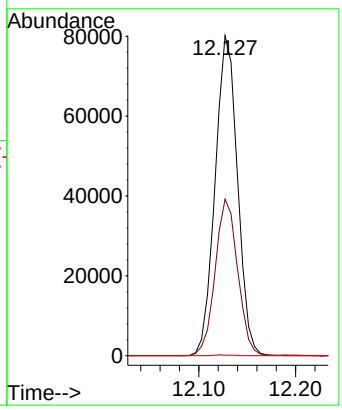




#71
Bromoform
Concen: 47.377 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:173 Resp: 12858

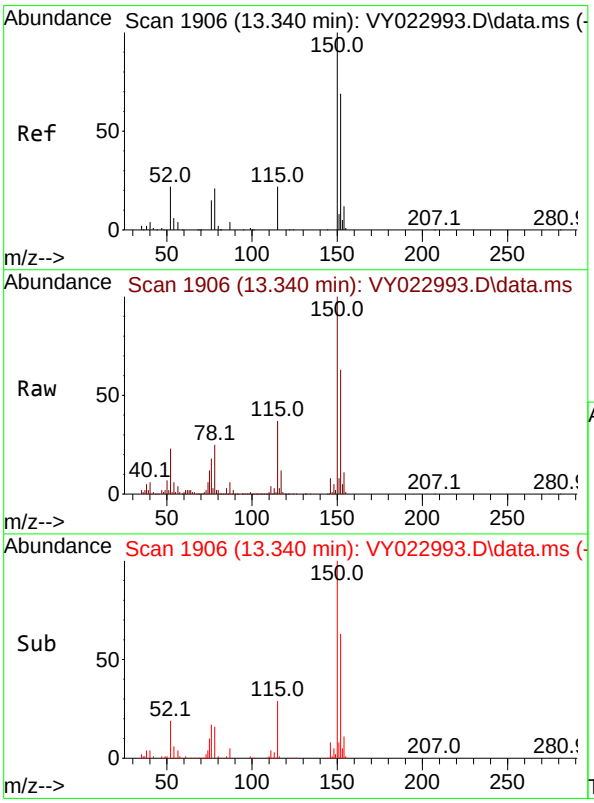
Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.2	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

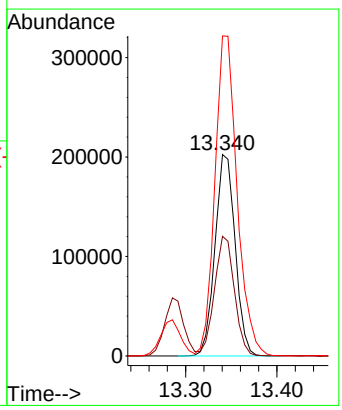
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

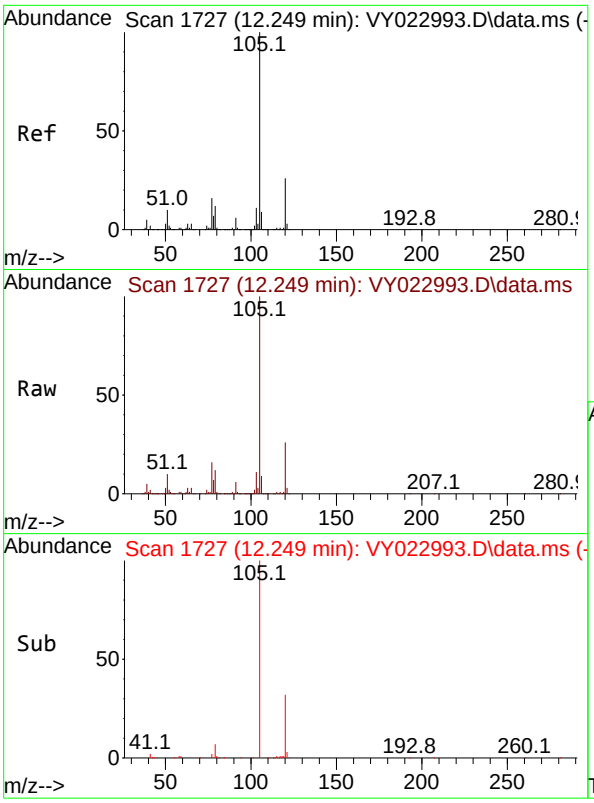


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:152 Resp: 311329

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.4	88.2
150	175.0	0.0	350.0

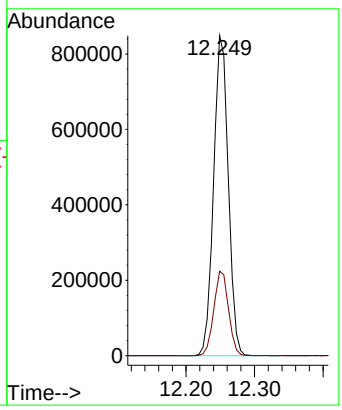




#73
Isopropylbenzene
Concen: 47.788 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:105 Resp: 126136

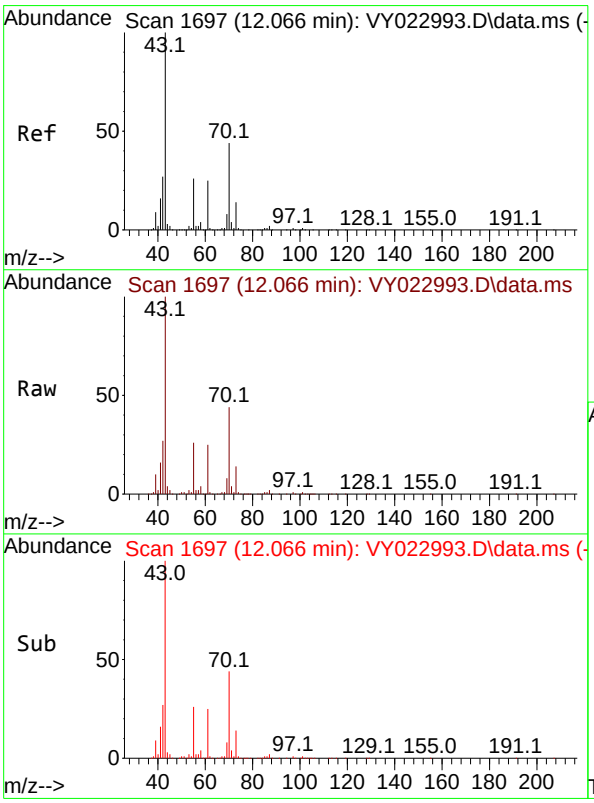
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

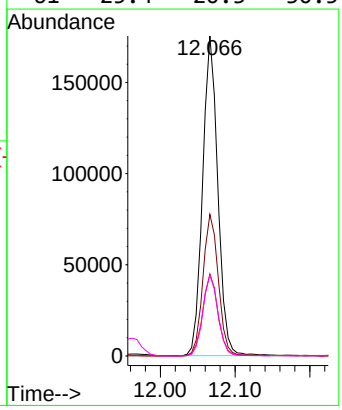
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

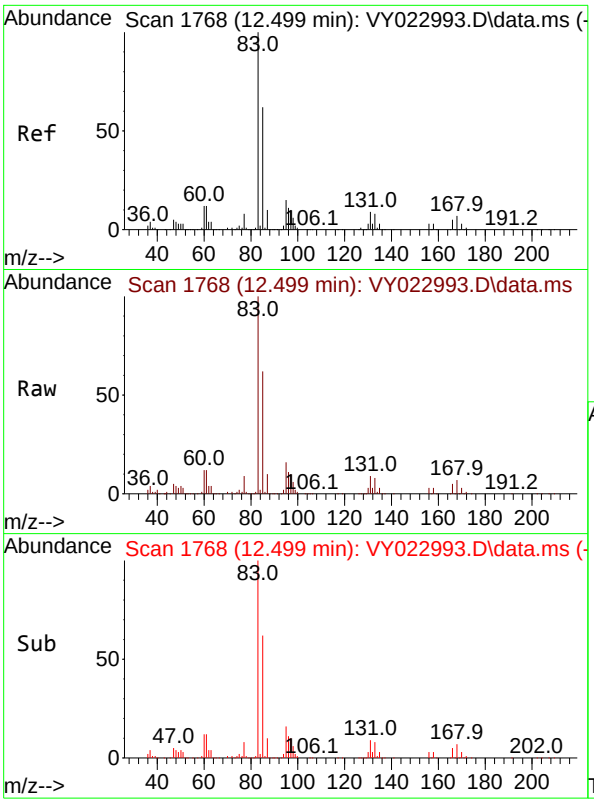


#74
N-amyl acetate
Concen: 49.681 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 247232

Ion	Ratio	Lower	Upper
43	100		
70	45.2	36.2	54.2
55	26.1	20.9	31.3
61	25.4	20.3	30.5

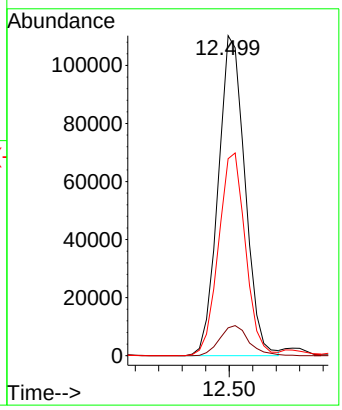




#75
1,1,2,2-Tetrachloroethane
Concen: 45.650 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 83 Resp: 17437

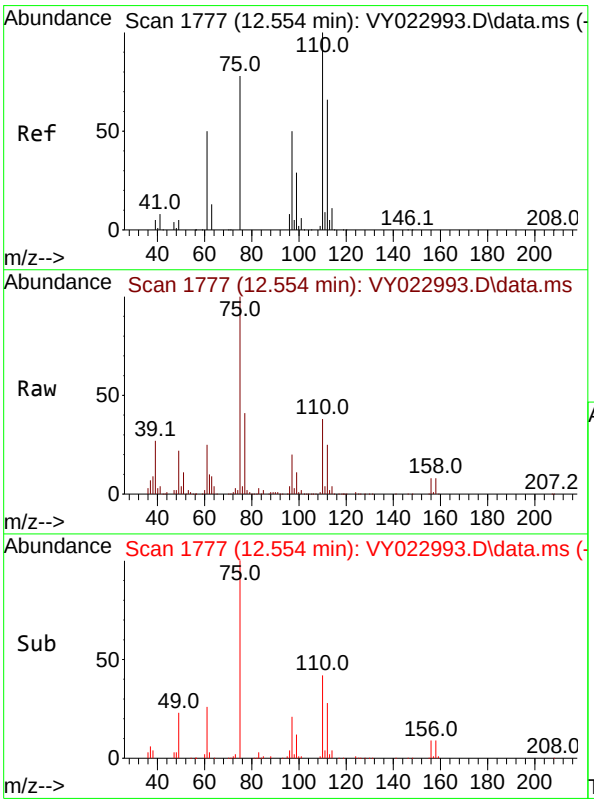
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.8	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

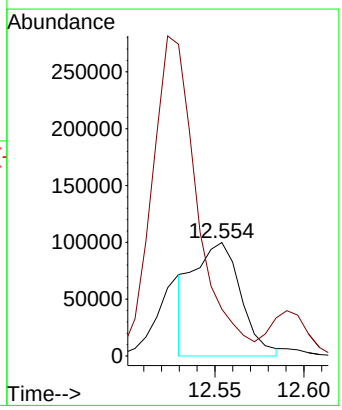
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

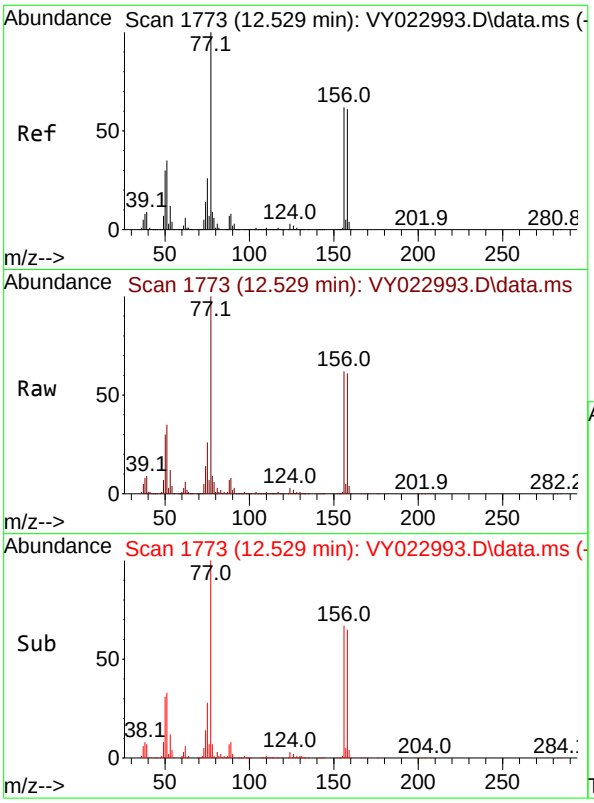


#76
1,2,3-Trichloropropane
Concen: 47.387 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 185675

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

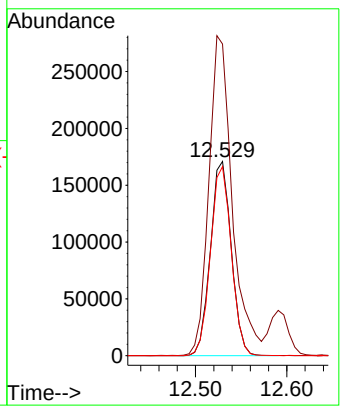




#77
Bromobenzene
Concen: 47.332 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:156 Resp: 27096

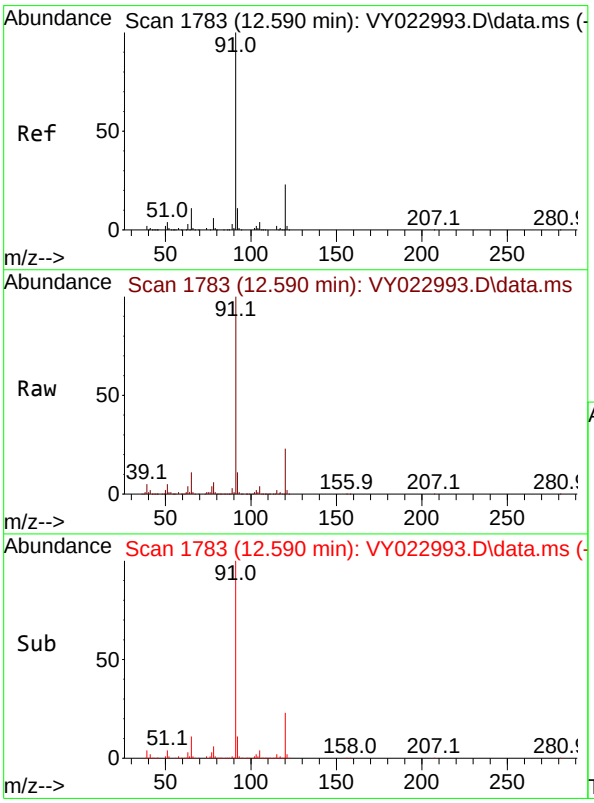
Ion	Ratio	Lower	Upper
156	100		
77	184.1	92.0	276.1
158	97.3	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

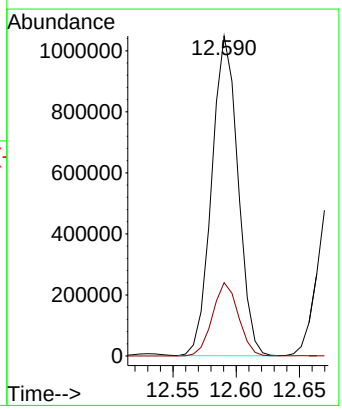
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

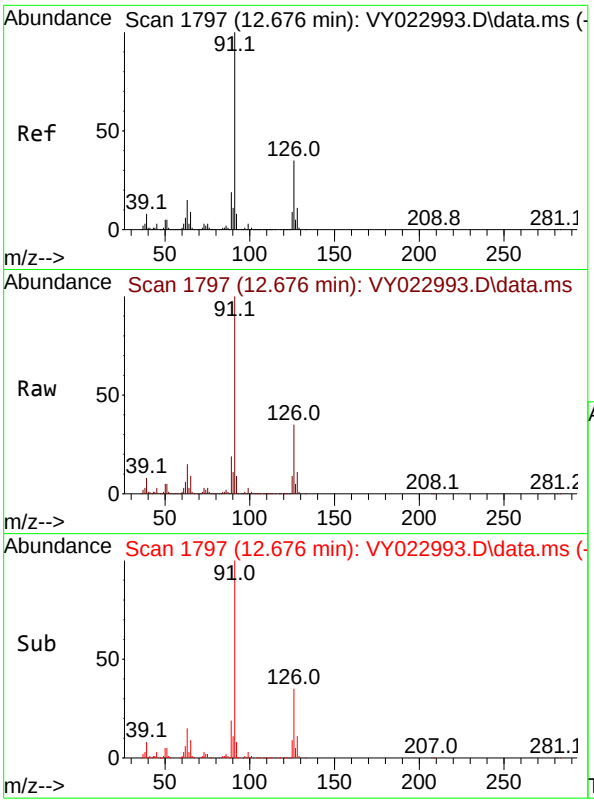


#78
n-propylbenzene
Concen: 48.154 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 91 Resp: 1513613

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8





#79
2-Chlorotoluene
Concen: 47.226 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

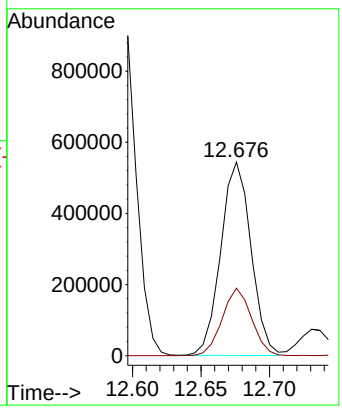
Tgt Ion: 91 Resp: 83486

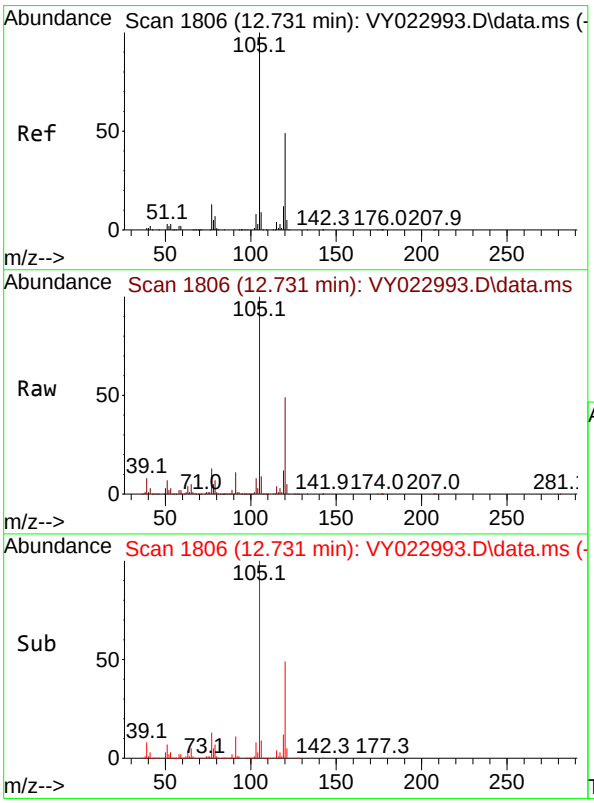
Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

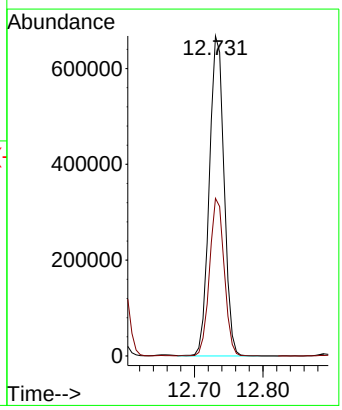


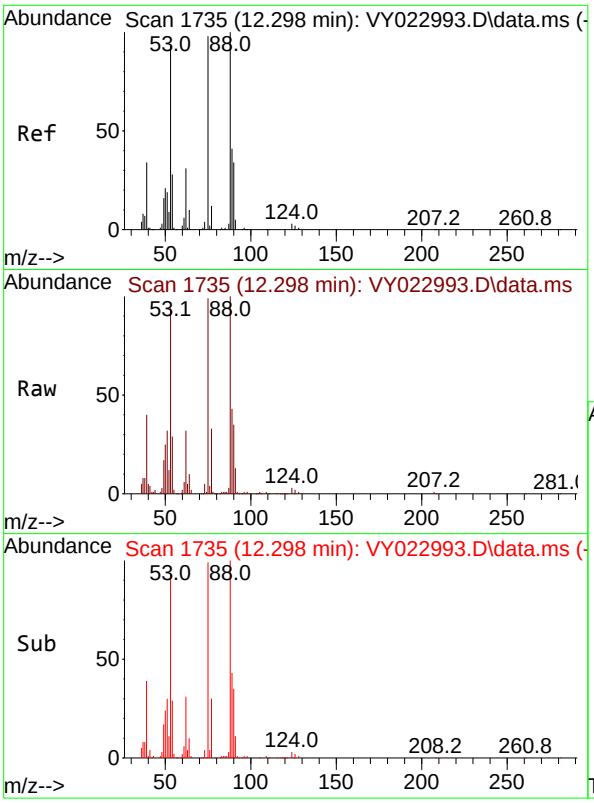


#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:105 Resp: 999303

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.6	73.8

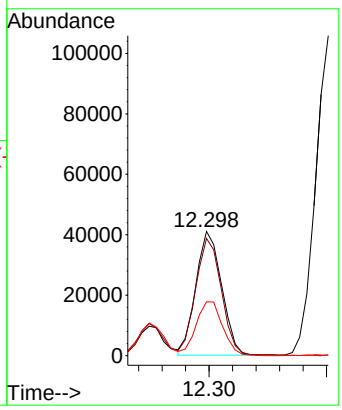




#81
trans-1,4-Dichloro-2-butene
Concen: 47.883 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 6236

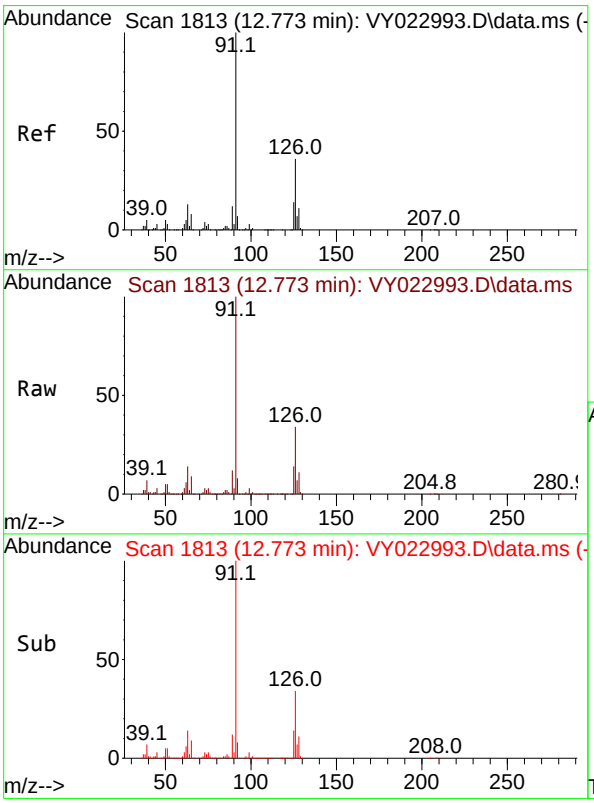
Ion	Ratio	Lower	Upper
75	100		
53	95.1	76.1	114.1
89	45.1	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

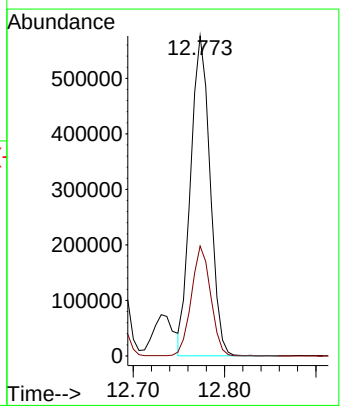
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

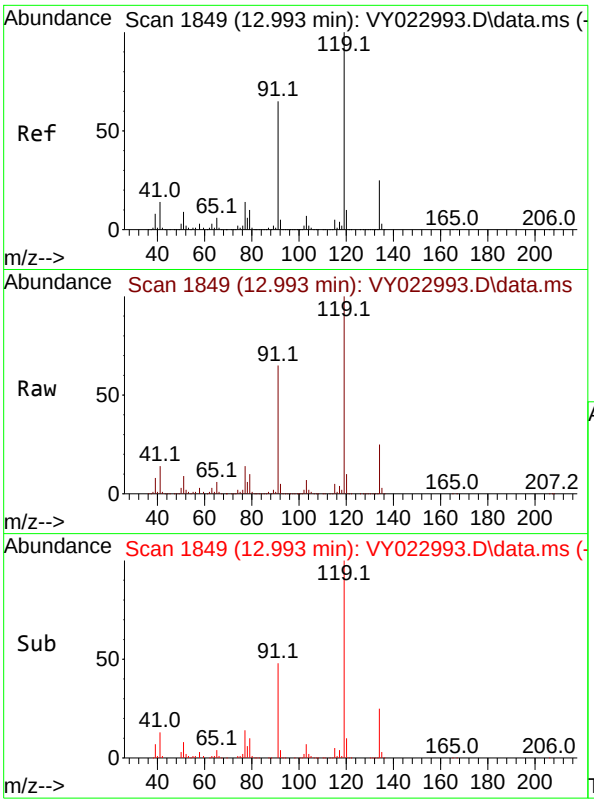


#82
4-Chlorotoluene
Concen: 47.667 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 91 Resp: 849887

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.2	51.5

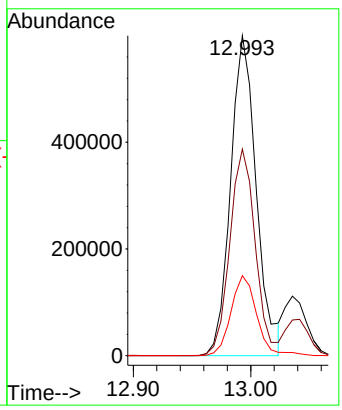




#83
tert-Butylbenzene
Concen: 48.474 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:119 Resp: 91152

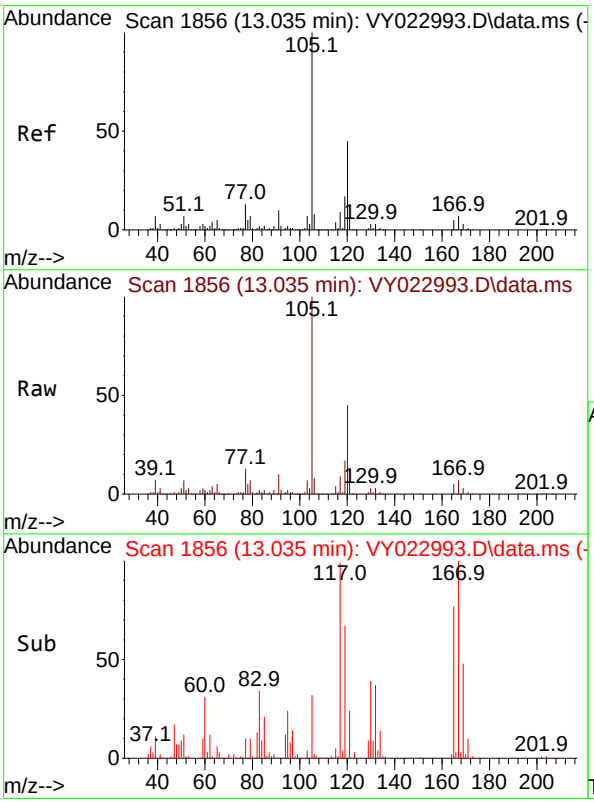
Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.0	96.2
134	25.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

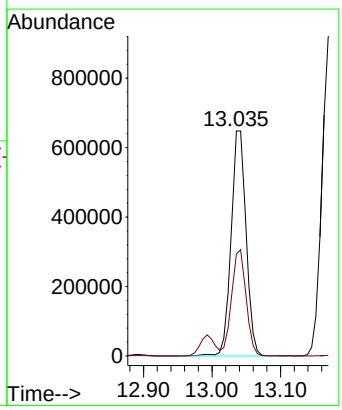
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

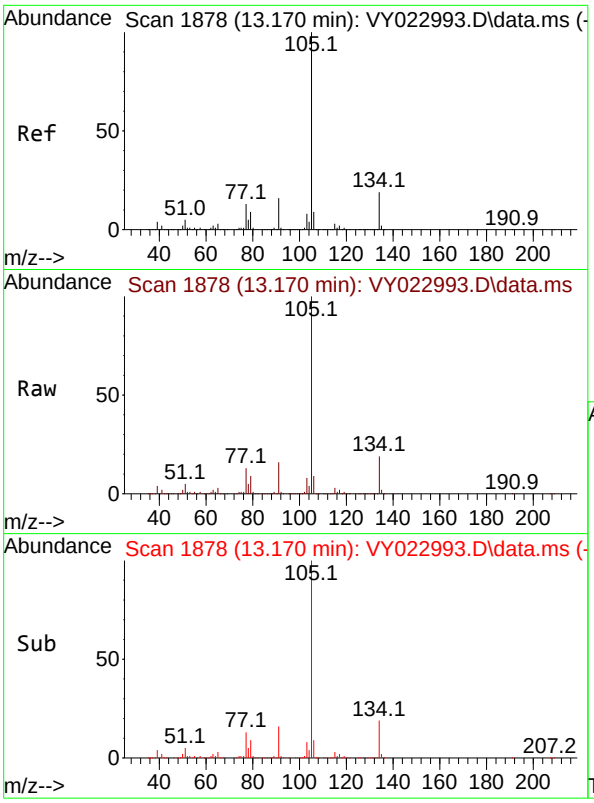


#84
1,2,4-Trimethylbenzene
Concen: 48.169 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:105 Resp: 987090

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.8

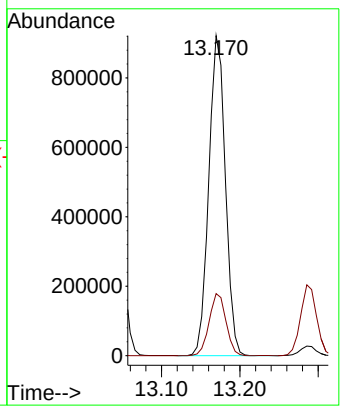




#85
sec-Butylbenzene
Concen: 47.965 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:105 Resp: 135166

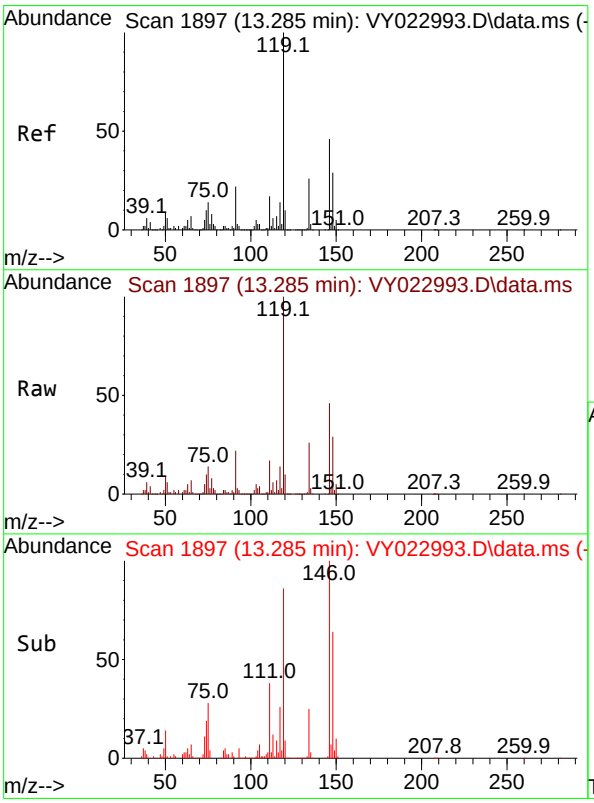
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

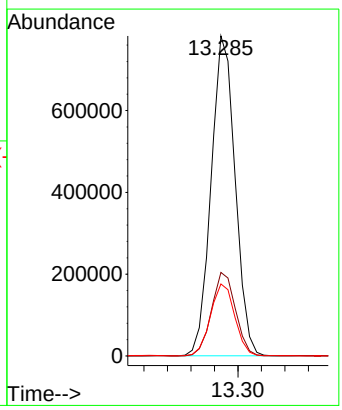
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

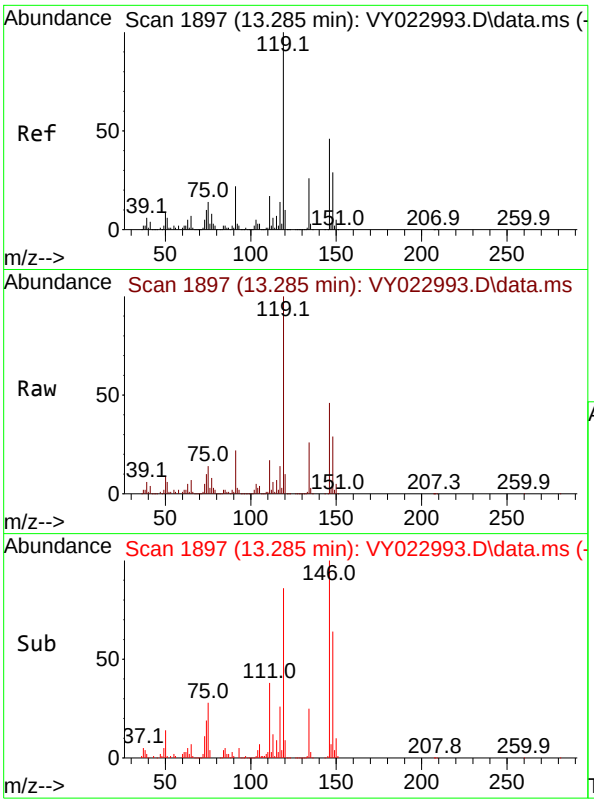


#86
p-Isopropyltoluene
Concen: 48.505 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:119 Resp: 1110110

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	22.7	11.4	34.1

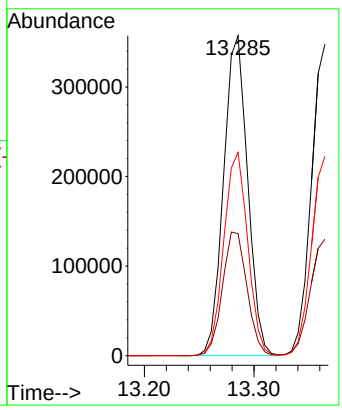




#87
1,3-Dichlorobenzene
Concen: 47.167 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:146 Resp: 54492

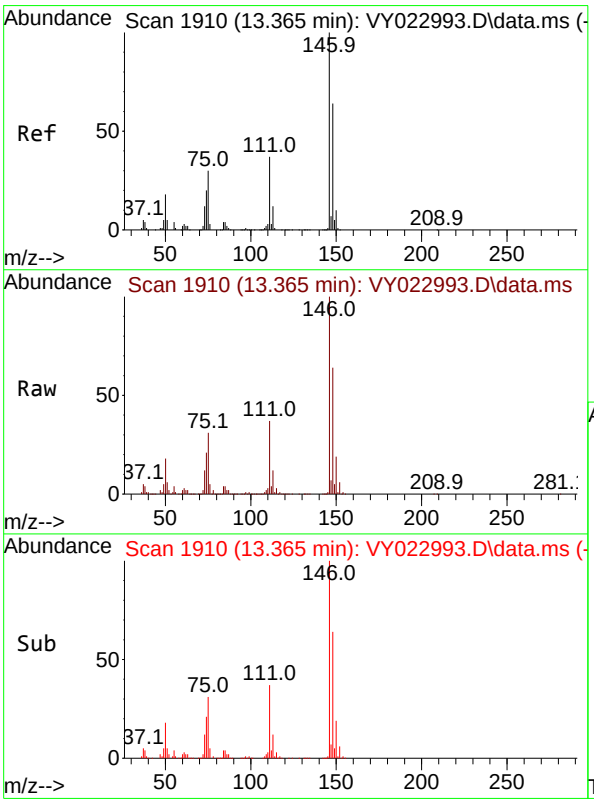
Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.2	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

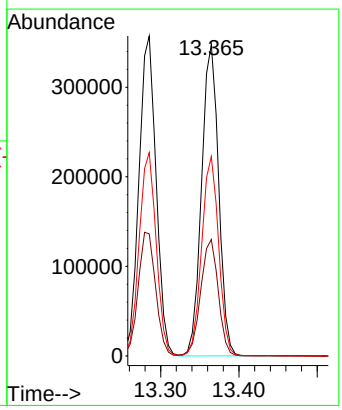
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

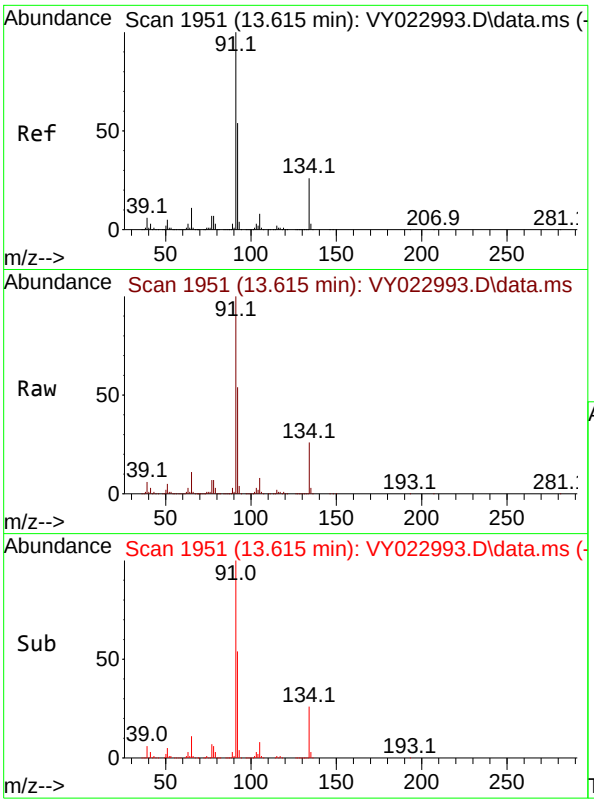


#88
1,4-Dichlorobenzene
Concen: 46.985 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:146 Resp: 525144

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	63.7	31.9	95.5

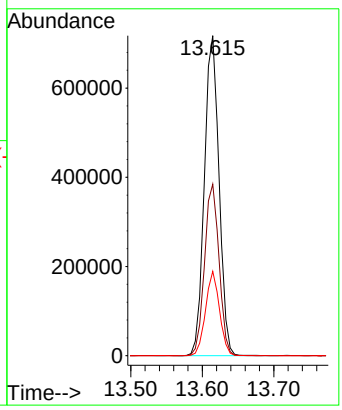




#89
n-Butylbenzene
Concen: 48.359 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 91 Resp: 102128

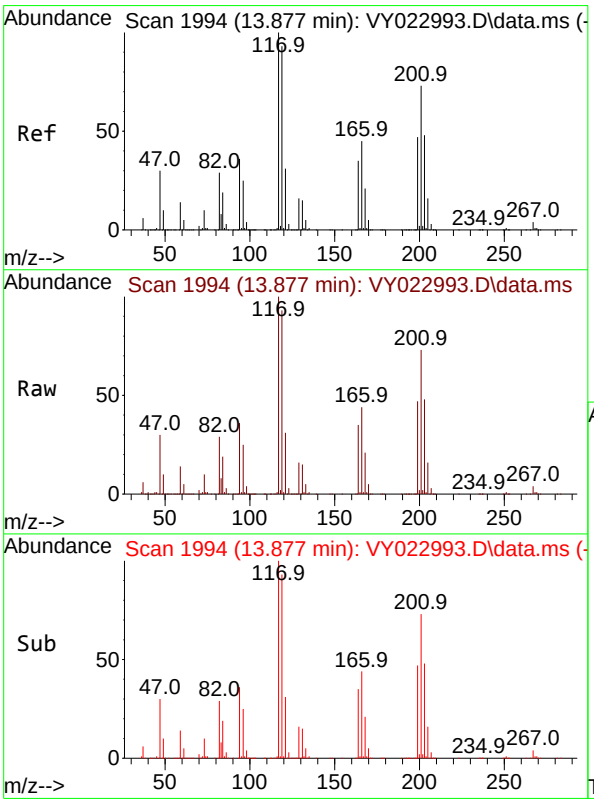
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

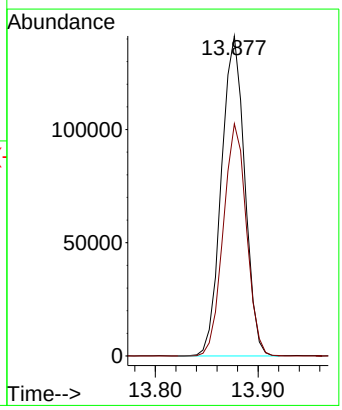
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

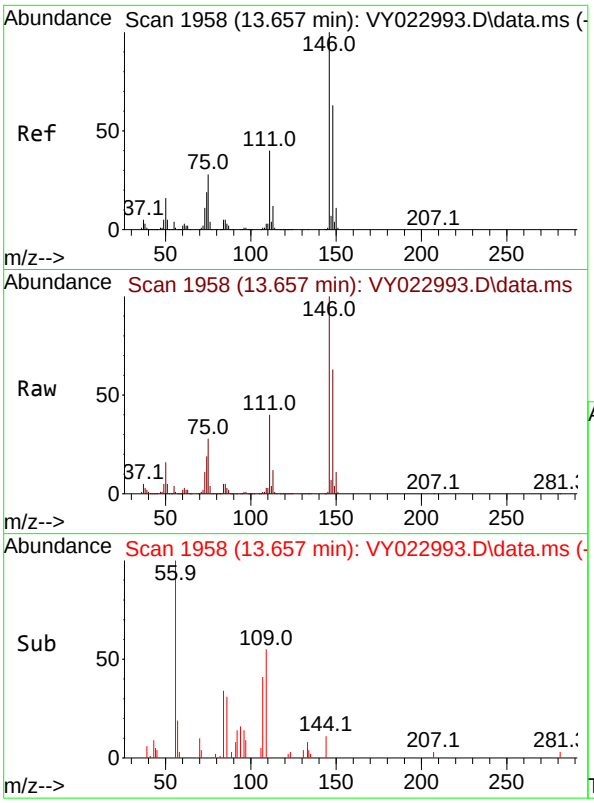


#90
Hexachloroethane
Concen: 46.822 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:117 Resp: 221864

Ion	Ratio	Lower	Upper
117	100		
201	72.3	36.1	108.5

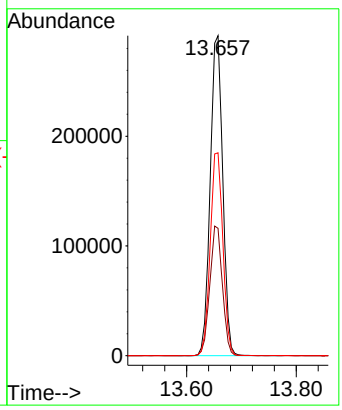




#91
1,2-Dichlorobenzene
Concen: 47.229 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:146 Resp: 46025

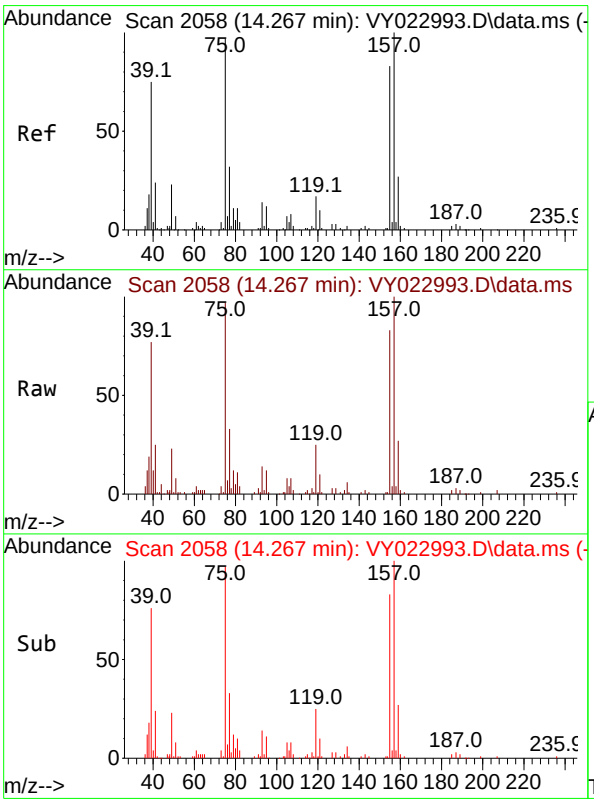
Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	64.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

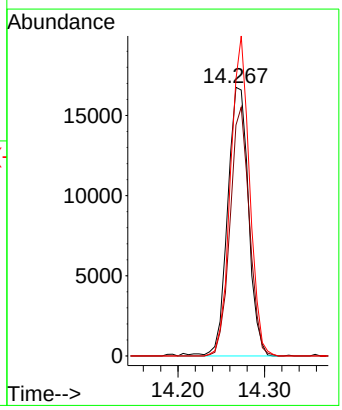
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

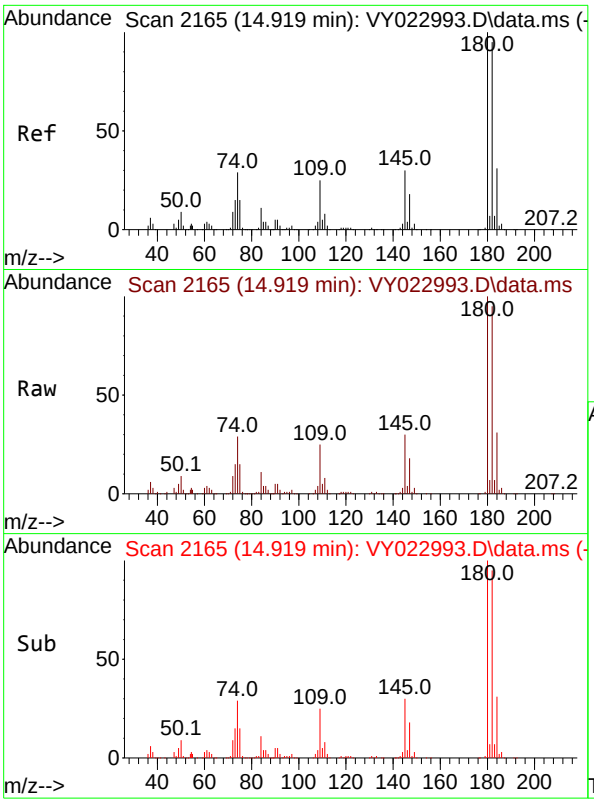


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.379 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 28006

Ion	Ratio	Lower	Upper
75	100		
155	85.5	42.8	128.3
157	108.6	54.3	162.9

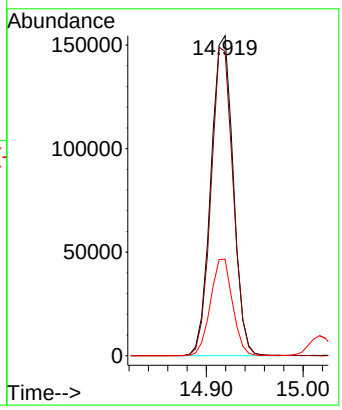




#93
1,2,4-Trichlorobenzene
Concen: 48.140 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:180 Resp: 24728

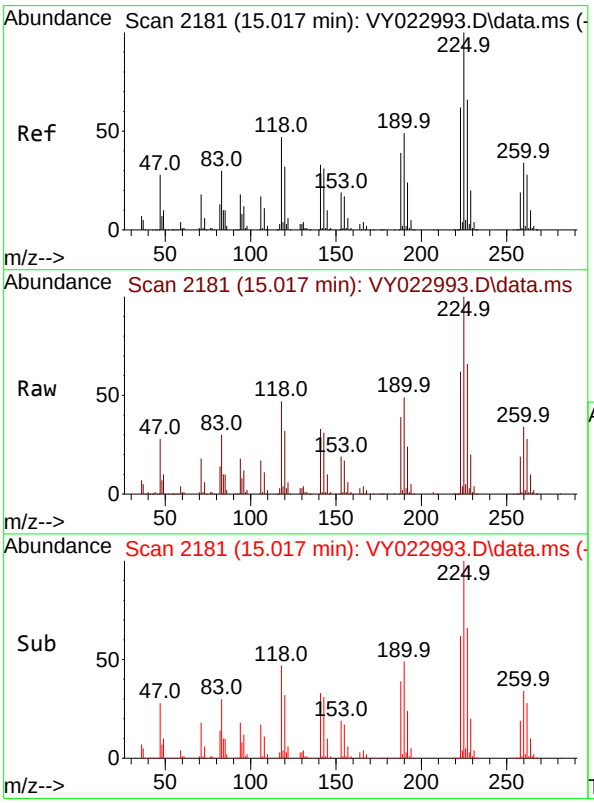
Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.5	142.5
145	29.9	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

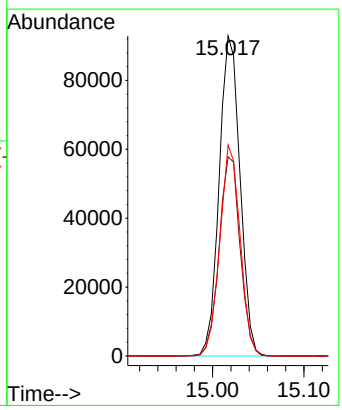
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

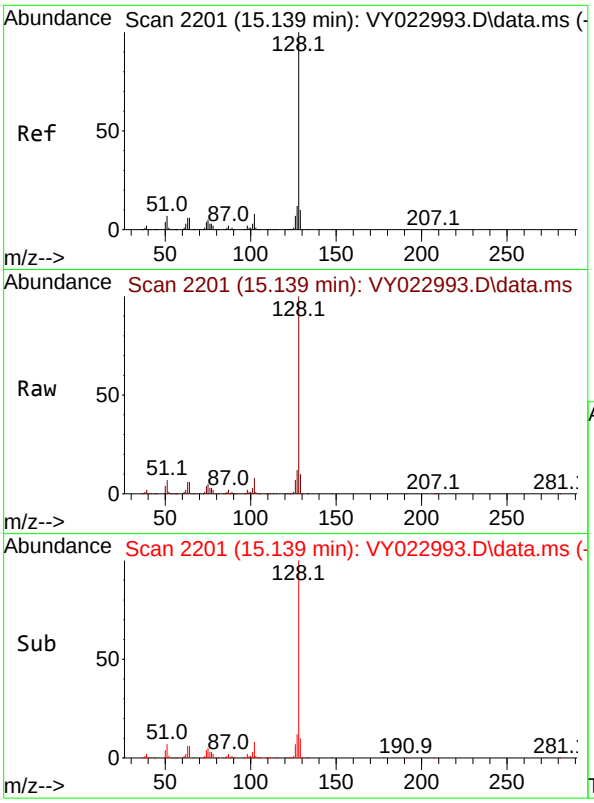


#94
Hexachlorobutadiene
Concen: 45.479 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:225 Resp: 147284

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.0
227	64.3	32.1	96.5

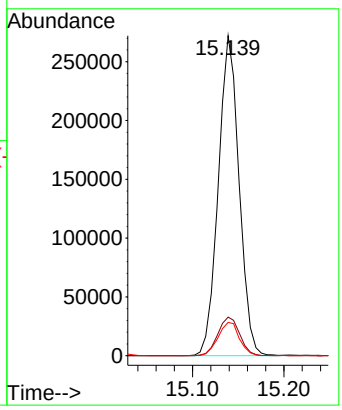




#95
Naphthalene
Concen: 52.172 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:128 Resp: 42984

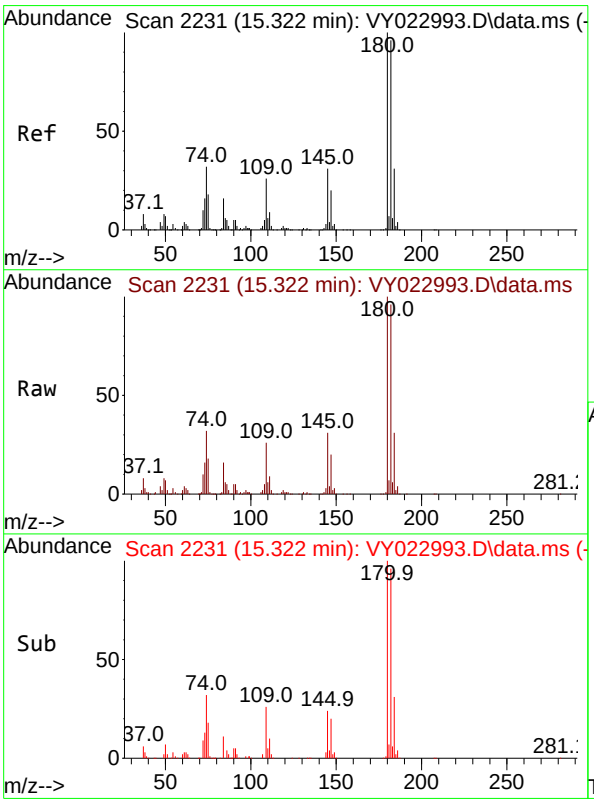
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.7	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

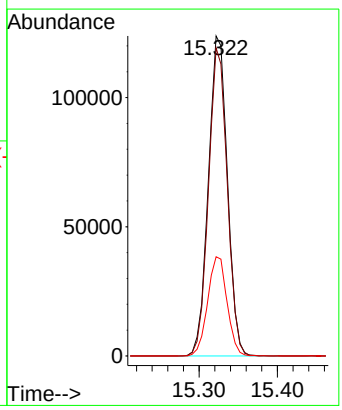
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.224 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:180 Resp: 208782

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.3	142.0
145	31.6	15.8	47.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	475954	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	780876	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	678532	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	336381	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	493933	102.513	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 205.020%#			
35) Dibromofluoromethane	7.634	113	482657	97.440	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 194.880%#			
50) Toluene-d8	10.103	98	1910579	97.264	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 194.520%#			
62) 4-Bromofluorobenzene	12.402	95	621212	100.465	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 200.920%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	343933	85.103	ug/l	99
3) Chloromethane	2.068	50	601188	87.486	ug/l	99
4) Vinyl Chloride	2.202	62	785743	90.253	ug/l	98
5) Bromomethane	2.586	94	577639	91.932	ug/l	98
6) Chloroethane	2.733	64	535701	92.133	ug/l	99
7) Trichlorofluoromethane	3.050	101	909366	89.982	ug/l	97
8) Diethyl Ether	3.452	74	255324	96.529	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	469718	88.476	ug/l	100
10) Methyl Iodide	4.001	142	575669	104.378	ug/l	99
11) Tert butyl alcohol	4.860	59	147261	502.619	ug/l	98
12) 1,1-Dichloroethene	3.787	96	460202	90.995	ug/l	97
13) Acrolein	3.653	56	39471	298.871	ug/l	95
14) Allyl chloride	4.379	41	750900	97.457	ug/l	100
15) Acrylonitrile	5.055	53	520028	519.058	ug/l	99
16) Acetone	3.867	43	381982	437.355	ug/l	98
17) Carbon Disulfide	4.104	76	1399893	91.330	ug/l	100
18) Methyl Acetate	4.385	43	307662	104.049	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1256898	103.613	ug/l	99
20) Methylene Chloride	4.610	84	565355	100.432	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	539769	95.878	ug/l	99
22) Diisopropyl ether	6.019	45	1674257	102.426	ug/l	99
23) Vinyl Acetate	5.958	43	4415435	536.099	ug/l	100
24) 1,1-Dichloroethane	5.909	63	998111	97.216	ug/l	99
25) 2-Butanone	6.890	43	637358	508.682	ug/l	99
26) 2,2-Dichloropropane	6.884	77	850357	94.504	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	647185	99.748	ug/l	99
28) Bromochloromethane	7.244	49	404739	101.639	ug/l	99
29) Tetrahydrofuran	7.262	42	419926	529.354	ug/l	99
30) Chloroform	7.421	83	1018437	98.332	ug/l	98
31) Cyclohexane	7.701	56	844759	88.057	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	884489	94.120	ug/l	100
36) 1,1-Dichloropropene	7.835	75	722234	92.565	ug/l	99
37) Ethyl Acetate	6.982	43	288448	99.541	ug/l	100
38) Carbon Tetrachloride	7.817	117	778082	91.791	ug/l	98
39) Methylcyclohexane	9.110	83	943130	93.389	ug/l	98
40) Benzene	8.079	78	2269537	96.608	ug/l	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	164406	107.489	ug/l		97
42) 1,2-Dichloroethane	8.158	62	585330	100.148	ug/l		100
43) Isopropyl Acetate	8.195	43	607757	105.586	ug/l	#	86
44) Trichloroethene	8.866	130	563155	93.331	ug/l		98
45) 1,2-Dichloropropane	9.140	63	533997	97.337	ug/l		100
46) Dibromomethane	9.225	93	284227	100.232	ug/l		99
47) Bromodichloromethane	9.420	83	781857	99.747	ug/l		99
48) Methyl methacrylate	9.219	41	295029	106.166	ug/l		98
49) 1,4-Dioxane	9.225	88	65215	2181.786	ug/l		93
51) 4-Methyl-2-Pentanone	9.994	43	1565020	535.675	ug/l		98
52) Toluene	10.170	92	1466593	100.411	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	705883	104.909	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	825037	101.731	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	379653	101.863	ug/l		98
56) Ethyl methacrylate	10.439	69	525284	112.902	ug/l		99
57) 1,3-Dichloropropane	10.713	76	659240	102.392	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	1299087	570.401	ug/l		100
59) 2-Hexanone	10.756	43	1036463	539.710	ug/l		98
60) Dibromochloromethane	10.908	129	502369	102.935	ug/l		100
61) 1,2-Dibromoethane	11.012	107	348166	102.869	ug/l		100
64) Tetrachloroethene	10.646	164	642694	92.667	ug/l		99
65) Chlorobenzene	11.438	112	1553437	97.021	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.512	131	534070	97.795	ug/l		100
67) Ethyl Benzene	11.518	91	2801373	98.709	ug/l		99
68) m/p-Xylenes	11.621	106	2176388	199.933	ug/l		98
69) o-Xylene	11.950	106	1029408	101.898	ug/l		98
70) Styrene	11.963	104	1721270	104.018	ug/l		100
71) Bromoform	12.127	173	291448	105.125	ug/l	#	99
73) Isopropylbenzene	12.249	105	2633517	92.342	ug/l		99
74) N-amyl acetate	12.066	43	559798	104.113	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	391508	94.863	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	390512m	92.242	ug/l		
77) Bromobenzene	12.530	156	591382	95.609	ug/l		100
78) n-propylbenzene	12.591	91	3128958	92.131	ug/l		98
79) 2-Chlorotoluene	12.676	91	1787847	93.601	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	2134216	94.884	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	136910	97.286	ug/l		96
82) 4-Chlorotoluene	12.774	91	1819454	94.446	ug/l		99
83) tert-Butylbenzene	12.993	119	1906177	93.818	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	2136779	96.506	ug/l		99
85) sec-Butylbenzene	13.170	105	2845557	93.457	ug/l		99
86) p-Isopropyltoluene	13.286	119	2393335	96.785	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	1199663	96.105	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	1147484	95.021	ug/l		100
89) n-Butylbenzene	13.615	91	2202992	96.545	ug/l		100
90) Hexachloroethane	13.877	117	471548	92.105	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	1014265	96.328	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	60444	98.636	ug/l		99
93) 1,2,4-Trichlorobenzene	14.913	180	563754	101.574	ug/l		99
94) Hexachlorobutadiene	15.017	225	318528	91.031	ug/l		99
95) Naphthalene	15.139	128	998336	112.148	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	477101	104.109	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

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

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

ICAL Form

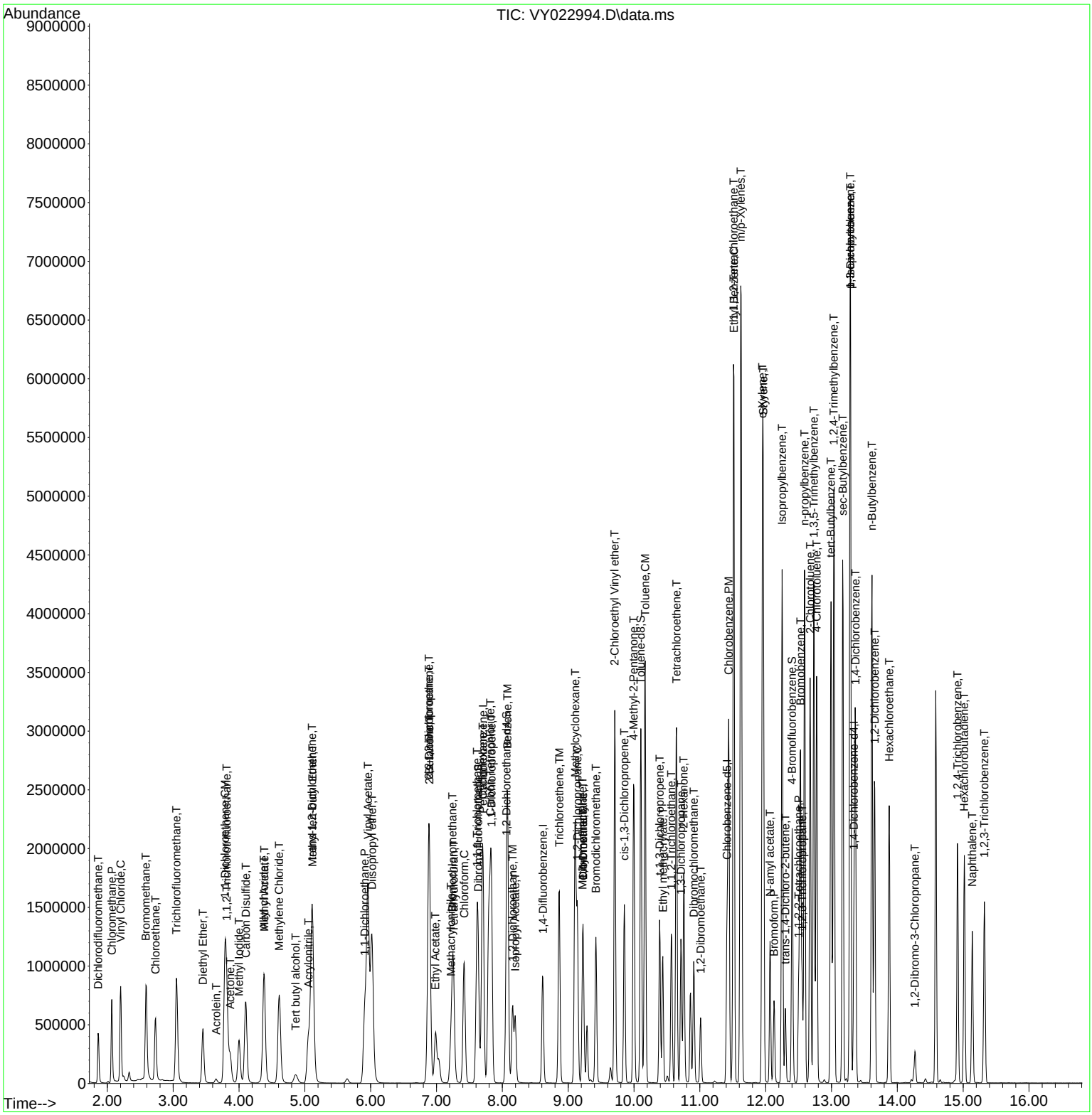
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

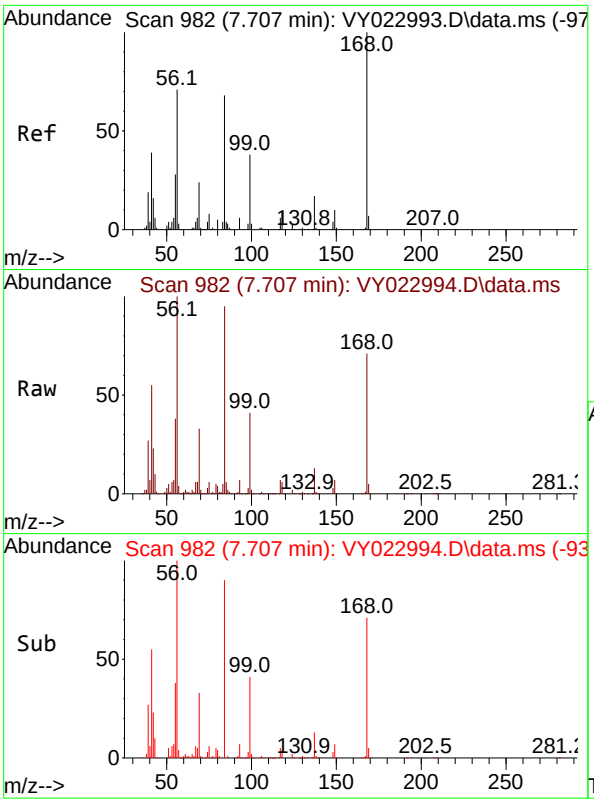
Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

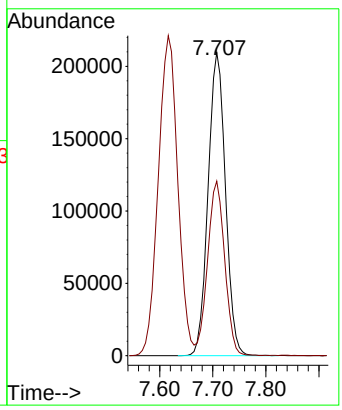
Tgt Ion:168 Resp: 47595

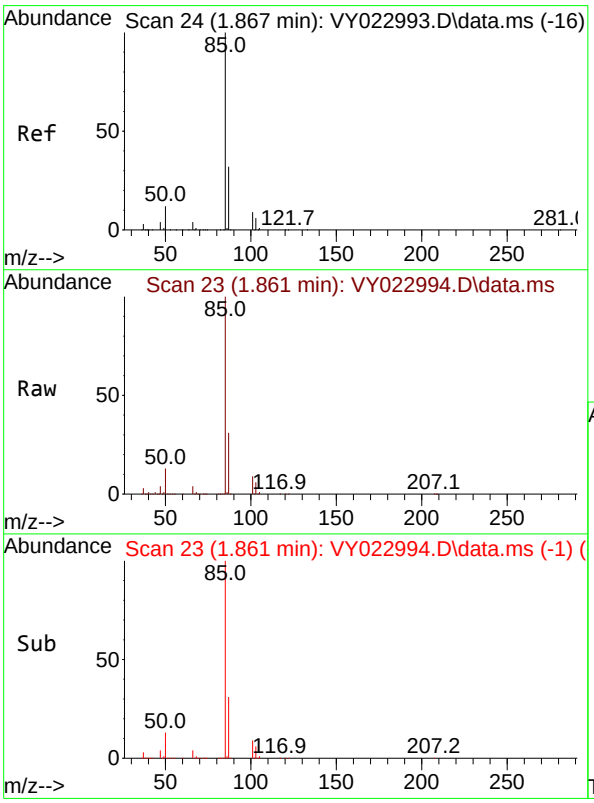
Ion	Ratio	Lower	Upper
168	100		
99	57.4	44.4	66.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

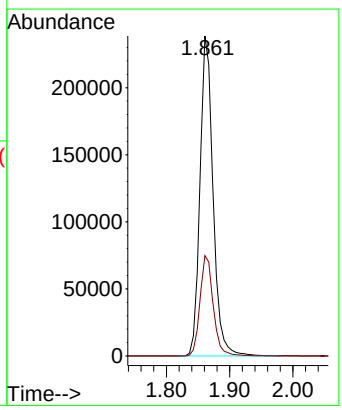


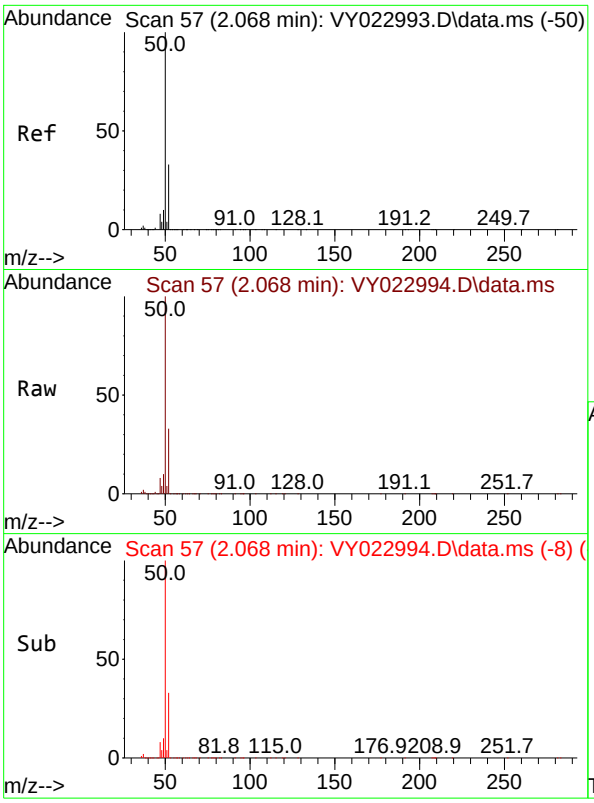


#2
Dichlorodifluoromethane
Concen: 85.103 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 85 Resp: 343933

Ion	Ratio	Lower	Upper
85	100		
87	31.4	16.0	47.9

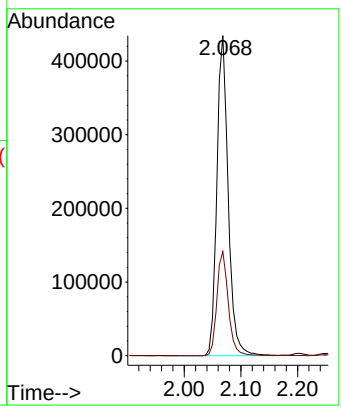




#3
Chloromethane
Concen: 87.486 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 50 Resp: 60118

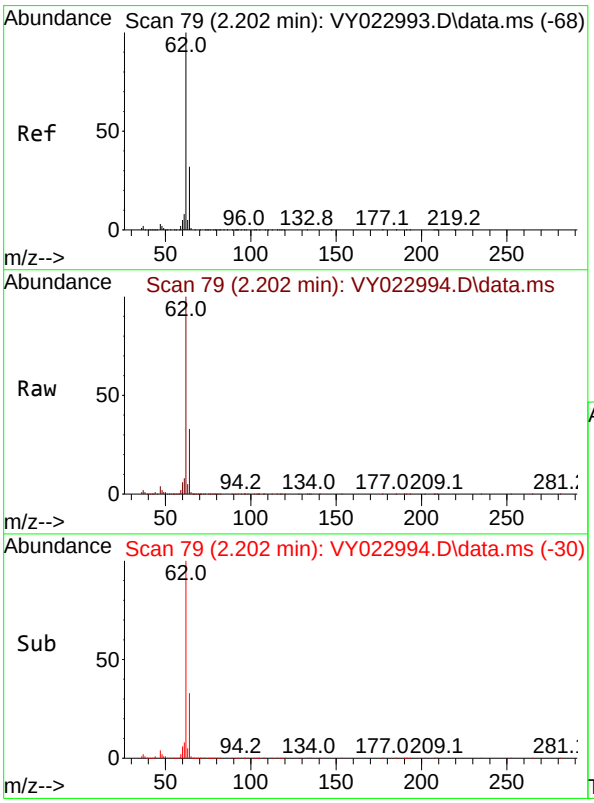
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

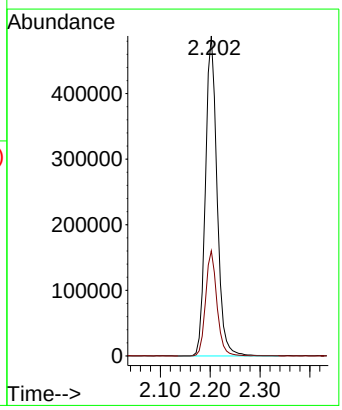
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

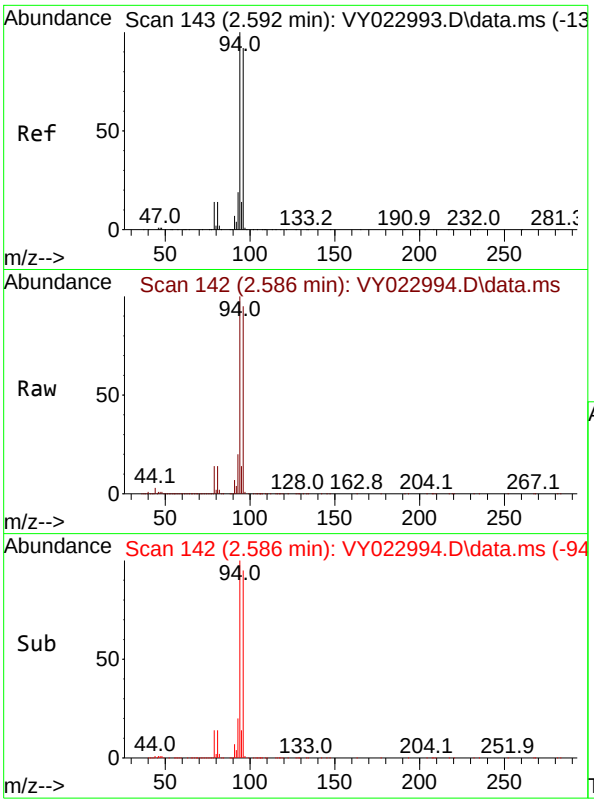


#4
Vinyl Chloride
Concen: 90.253 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 62 Resp: 785743

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.2	37.8





#5
Bromomethane
Concen: 91.932 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

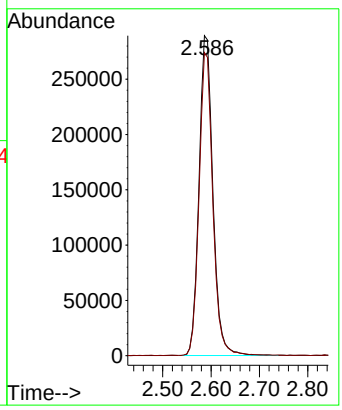
Tgt Ion: 94 Resp: 57763

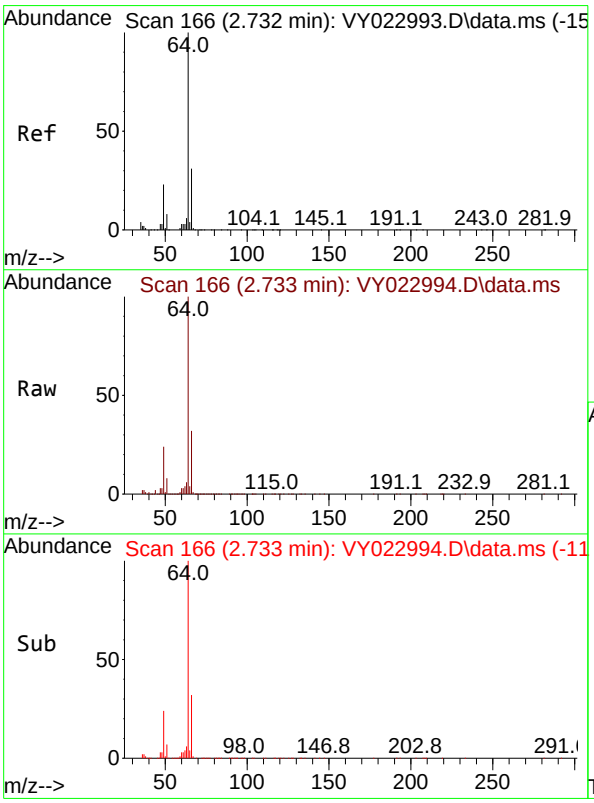
Ion	Ratio	Lower	Upper
94	100		
96	94.7	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

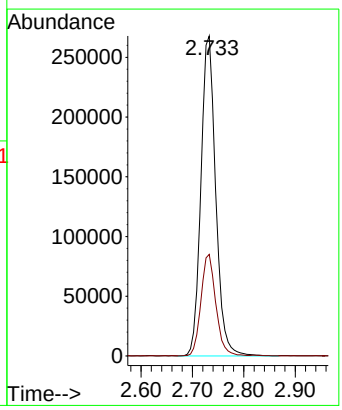


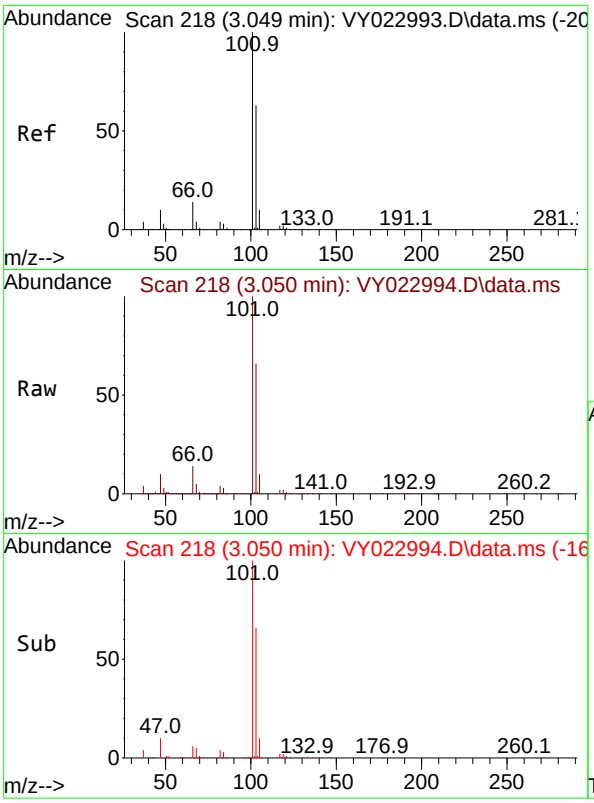


#6
Chloroethane
Concen: 92.133 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 64 Resp: 535701

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.9	37.3

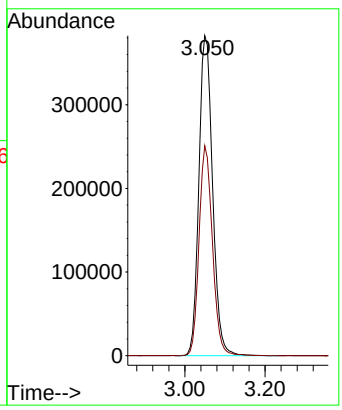




#7
Trichlorofluoromethane
Concen: 89.982 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:101 Resp: 90936

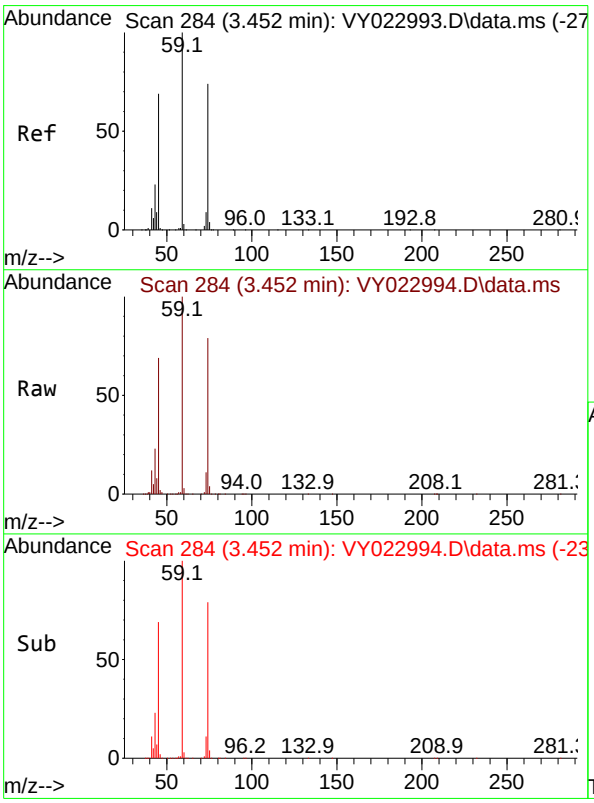
Ion	Ratio	Lower	Upper
101	100		
103	65.6	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

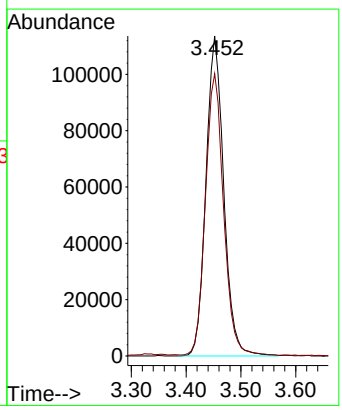
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

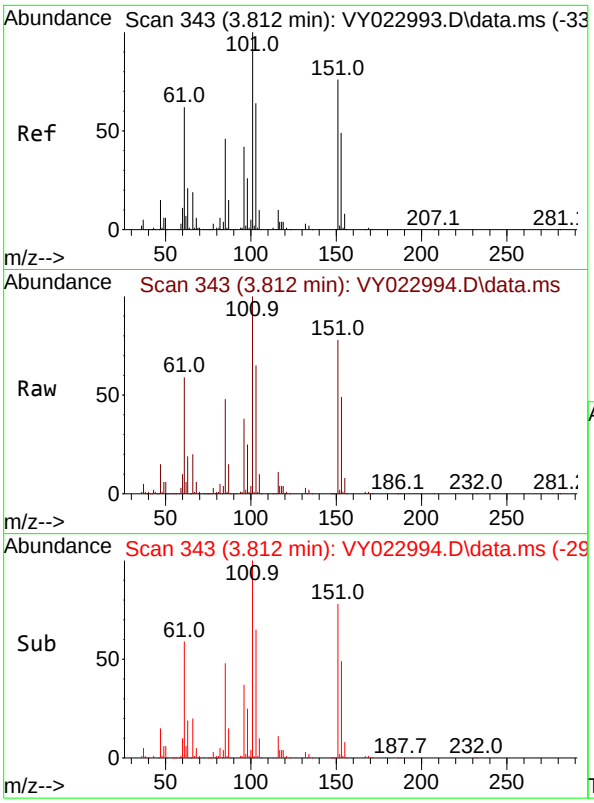


#8
Diethyl Ether
Concen: 96.529 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 74 Resp: 255324

Ion	Ratio	Lower	Upper
74	100		
45	90.0	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 88.476 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

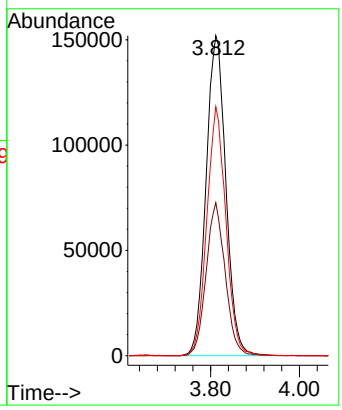
Tgt Ion:101 Resp: 469718

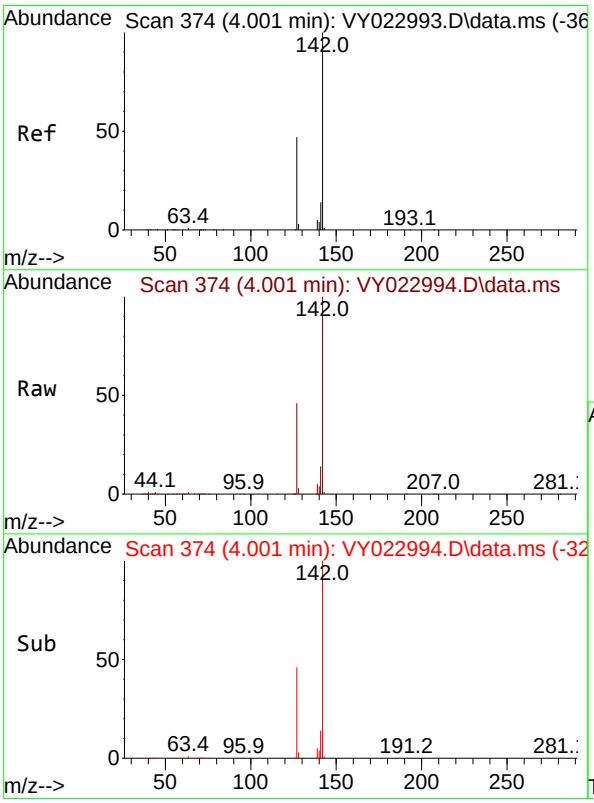
Ion	Ratio	Lower	Upper
101	100		
85	46.2	37.2	55.8
151	75.0	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

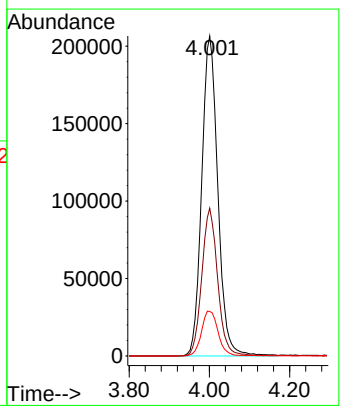


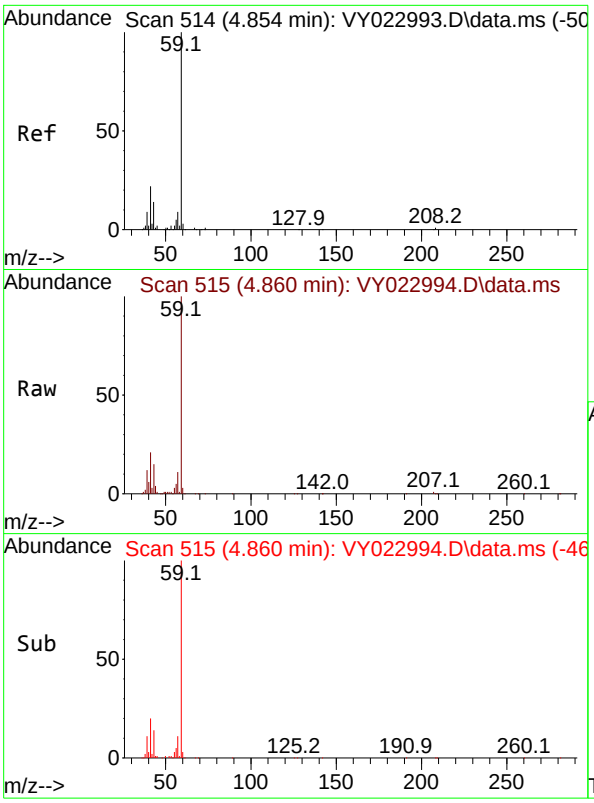


#10
Methyl Iodide
Concen: 104.378 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:142 Resp: 575669

Ion	Ratio	Lower	Upper
142	100		
127	45.5	37.0	55.6
141	14.4	11.4	17.2

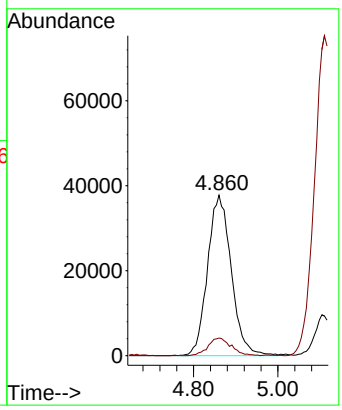




#11
Tert butyl alcohol
Concen: 502.619 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 59 Resp: 14726

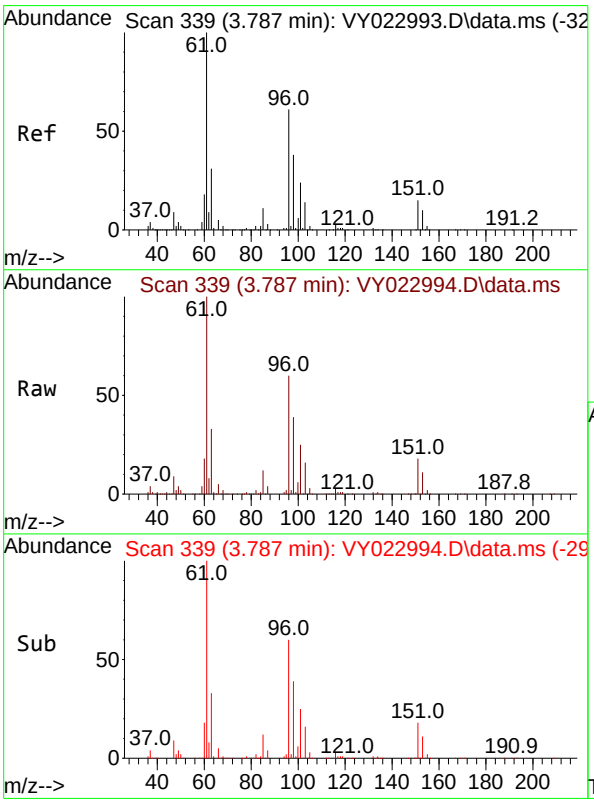
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

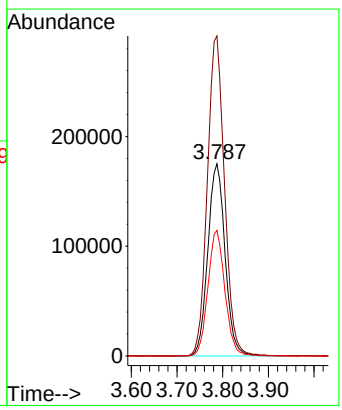
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

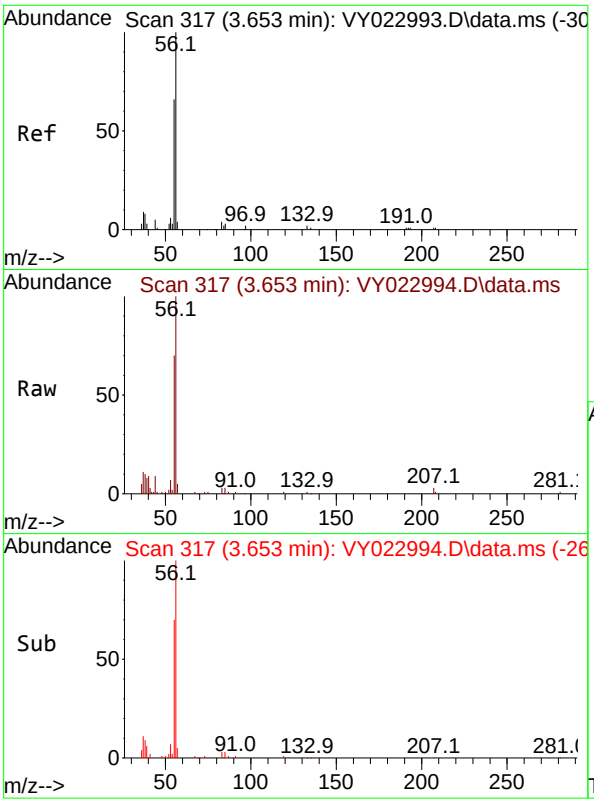


#12
1,1-Dichloroethene
Concen: 90.995 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 96 Resp: 460202

Ion	Ratio	Lower	Upper
96	100		
61	166.4	130.4	195.6
98	65.3	49.6	74.4





#13
Acrolein
Concen: 298.871 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

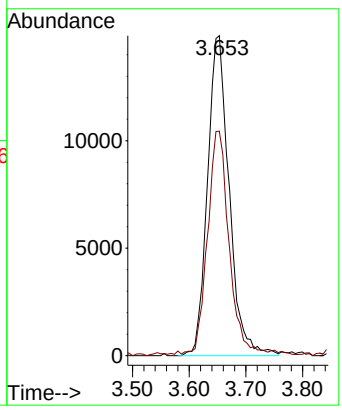
Tgt Ion: 56 Resp: 3947

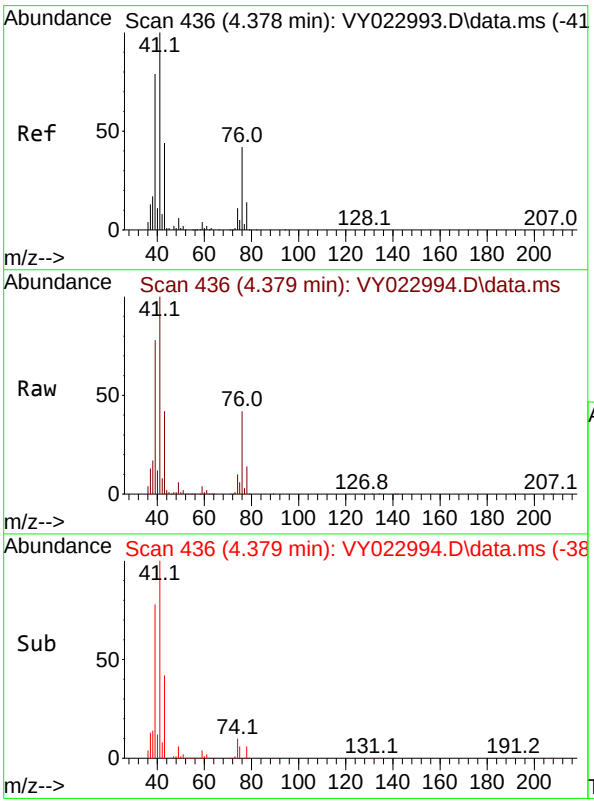
Ion	Ratio	Lower	Upper
56	100		
55	68.4	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

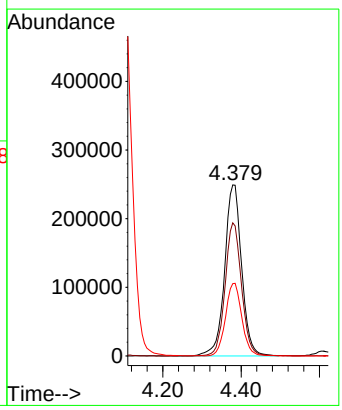


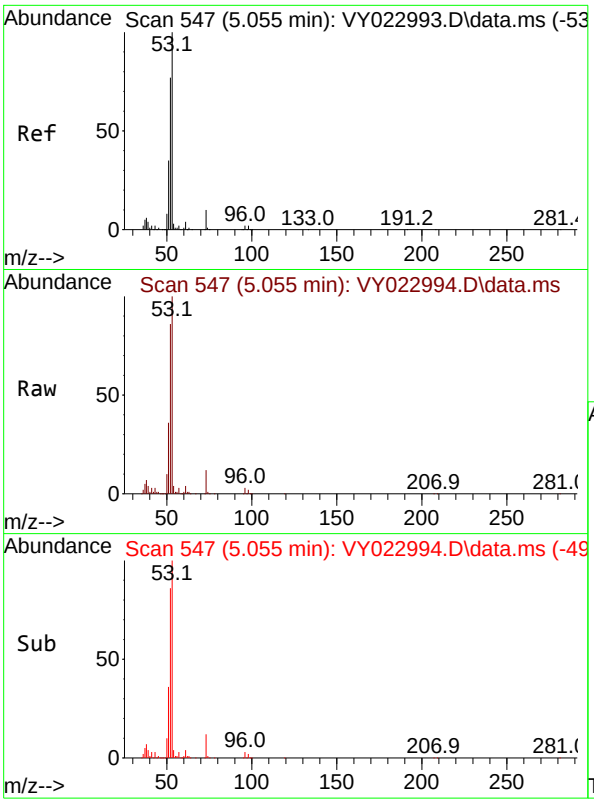


#14
Allyl chloride
Concen: 97.457 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 41 Resp: 750900

Ion	Ratio	Lower	Upper
41	100		
39	75.3	60.1	90.1
76	40.9	32.2	48.4

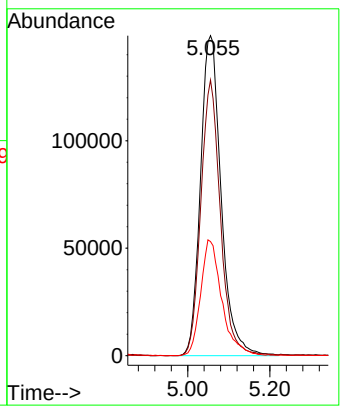




#15
Acrylonitrile
Concen: 519.058 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 53 Resp: 52002

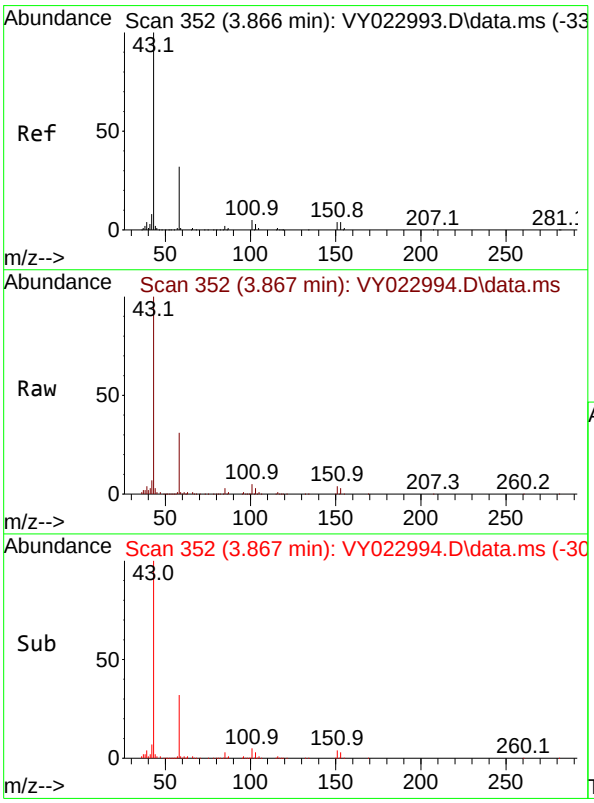
Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.2	97.8
51	37.0	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

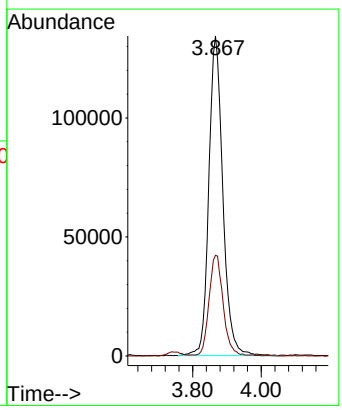
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

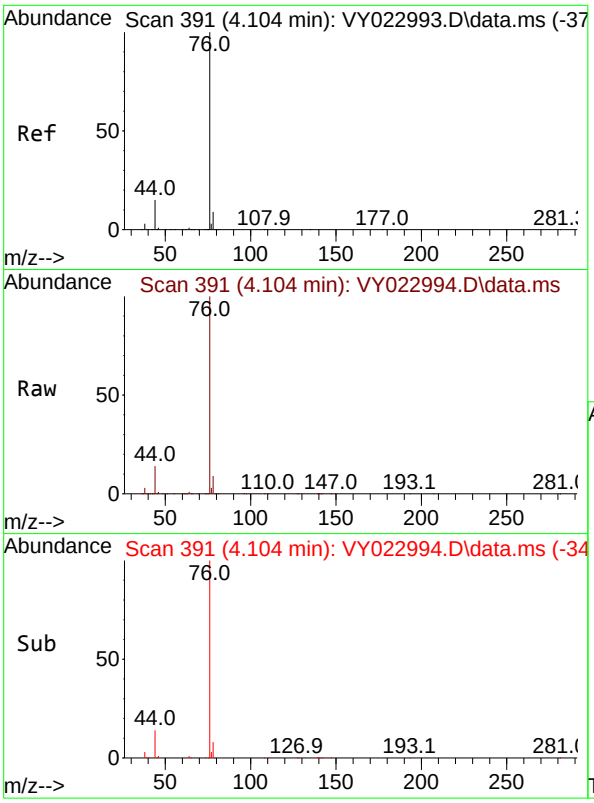


#16
Acetone
Concen: 437.355 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 381982

Ion	Ratio	Lower	Upper
43	100		
58	31.5	26.2	39.4





#17
Carbon Disulfide
Concen: 91.330 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

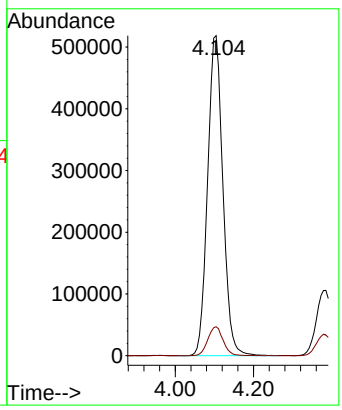
Tgt Ion: 76 Resp: 139989

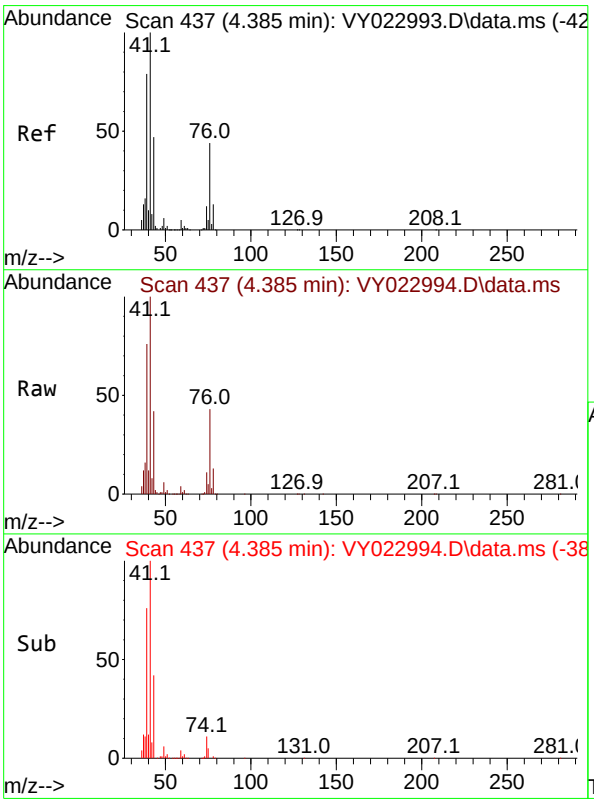
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

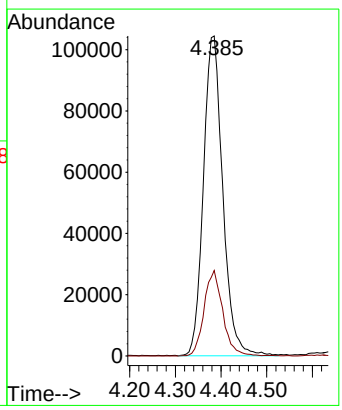


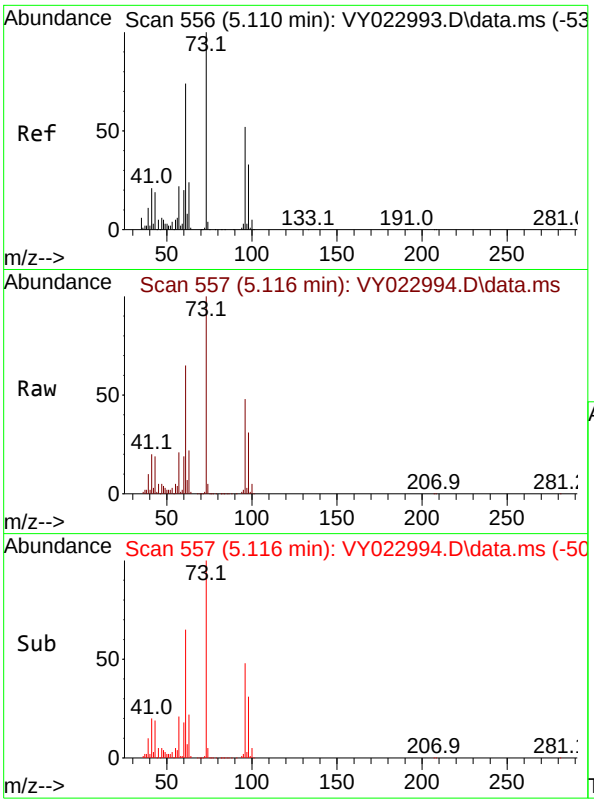


#18
Methyl Acetate
Concen: 104.049 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 307662

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.1	30.1





#19
Methyl tert-butyl Ether
Concen: 103.613 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

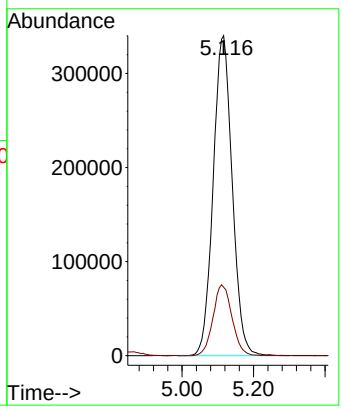
Tgt Ion: 73 Resp: 125689

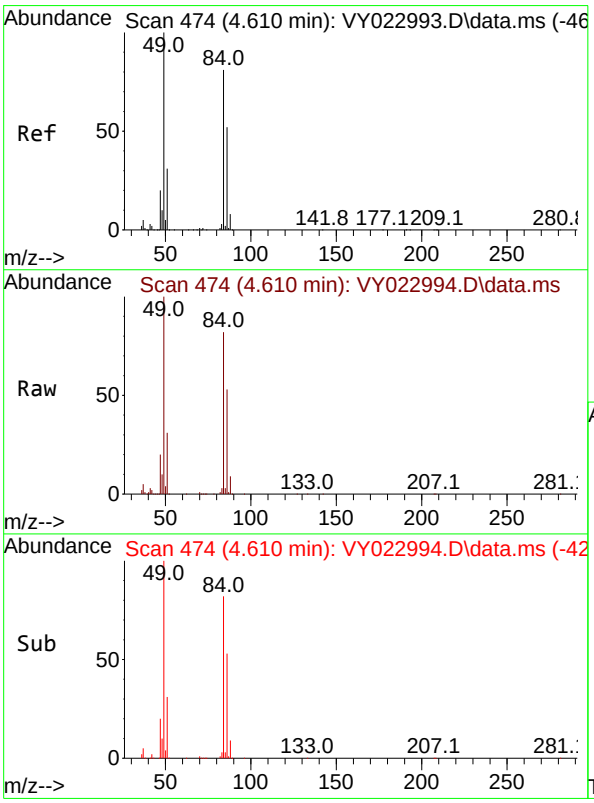
Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.4	26.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

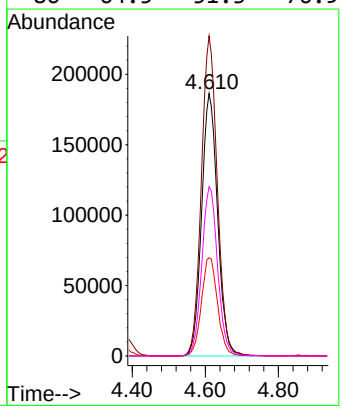


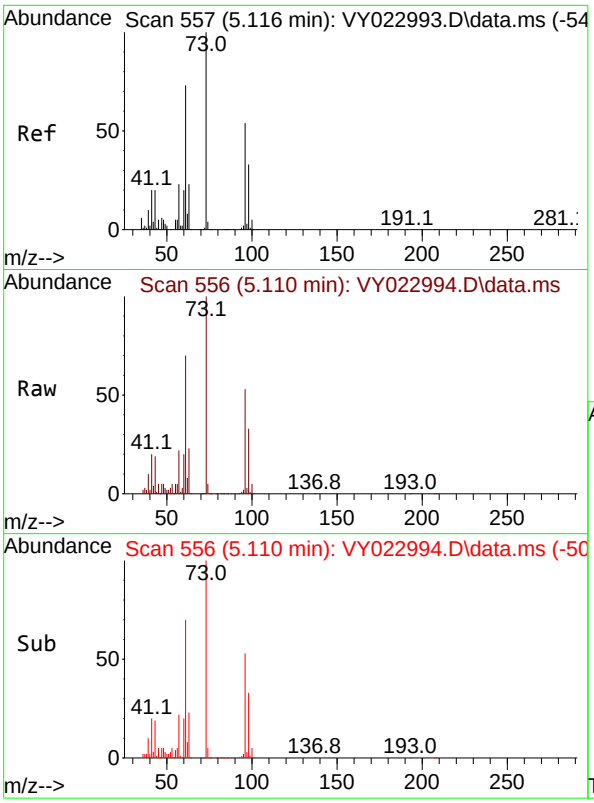


#20
Methylene Chloride
Concen: 100.432 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 84 Resp: 565355

Ion	Ratio	Lower	Upper
84	100		
49	121.9	98.2	147.4
51	37.5	30.5	45.7
86	64.5	51.3	76.9

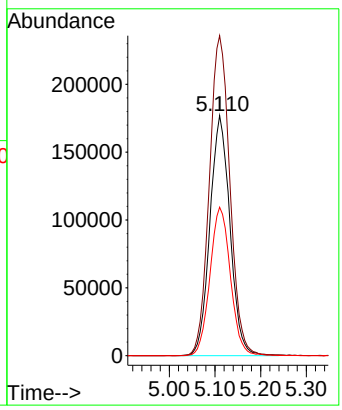




#21
trans-1,2-Dichloroethene
Concen: 95.878 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 96 Resp: 53976

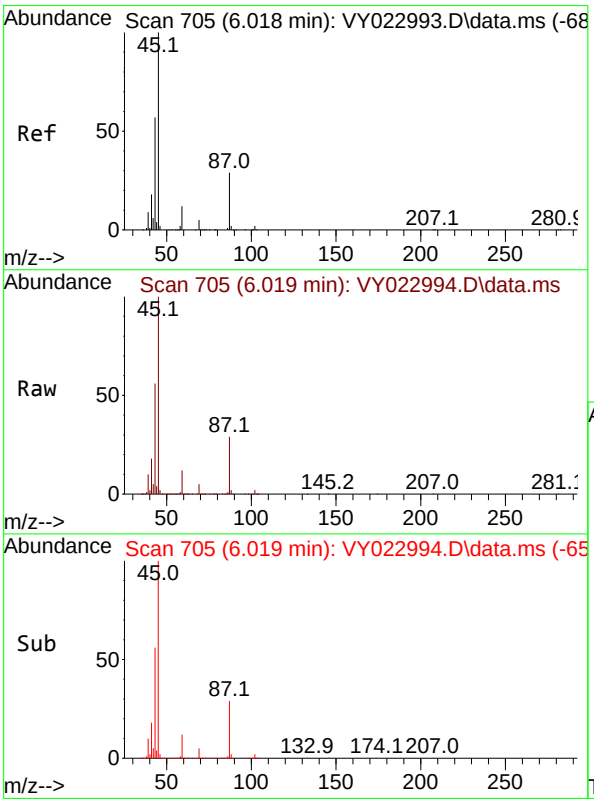
Ion	Ratio	Lower	Upper
96	100		
61	133.2	107.4	161.2
98	61.8	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

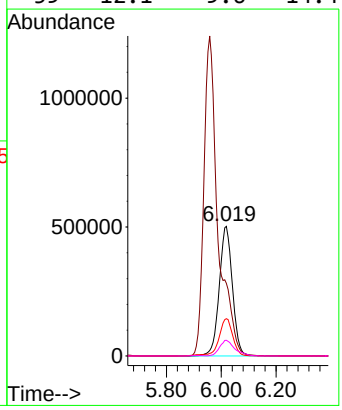
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

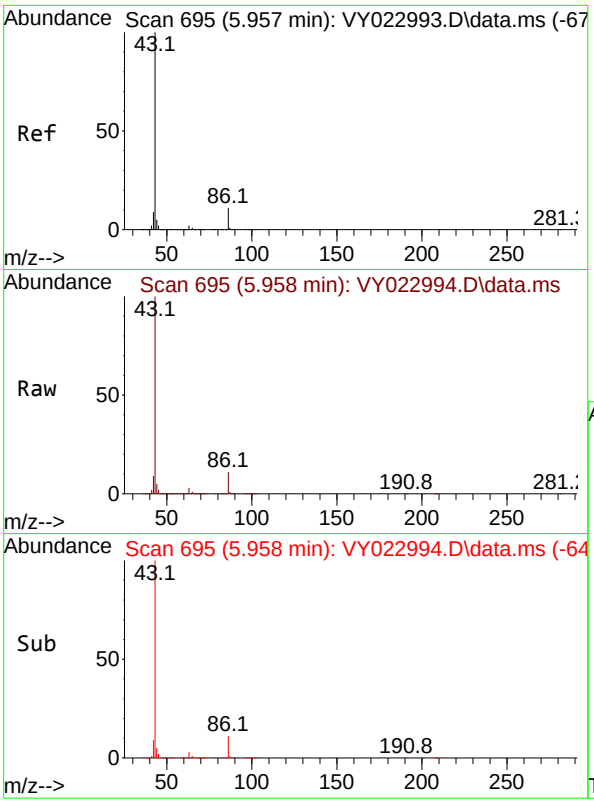


#22
Diisopropyl ether
Concen: 102.426 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 45 Resp: 1674257

Ion	Ratio	Lower	Upper
45	100		
43	56.0	45.3	67.9
87	28.8	23.3	34.9
59	12.1	9.6	14.4





#23
Vinyl Acetate
Concen: 536.099 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

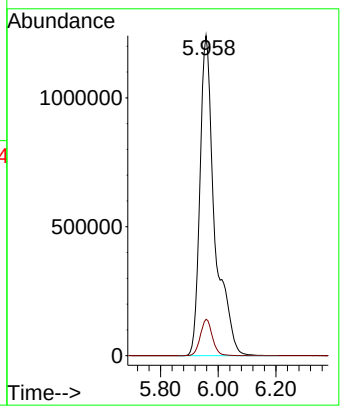
Tgt Ion: 43 Resp: 441543

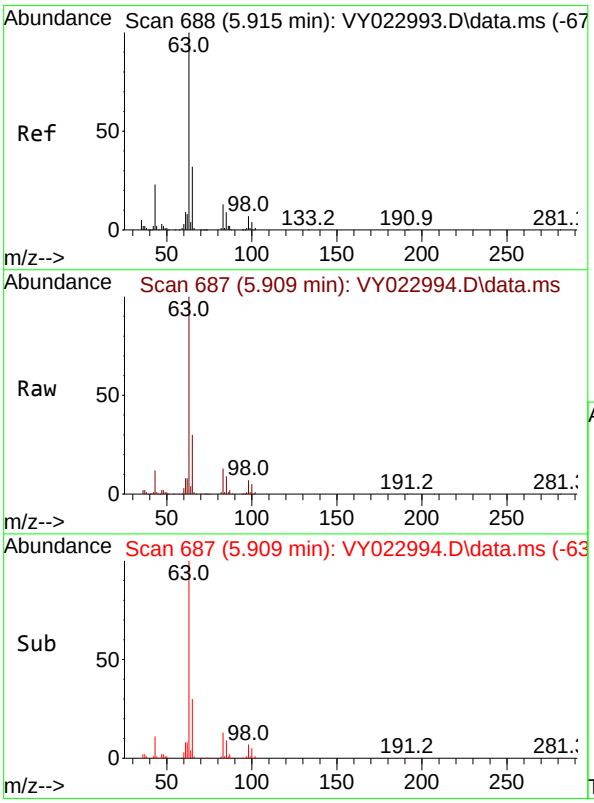
Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

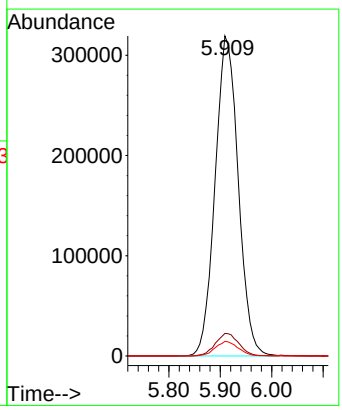


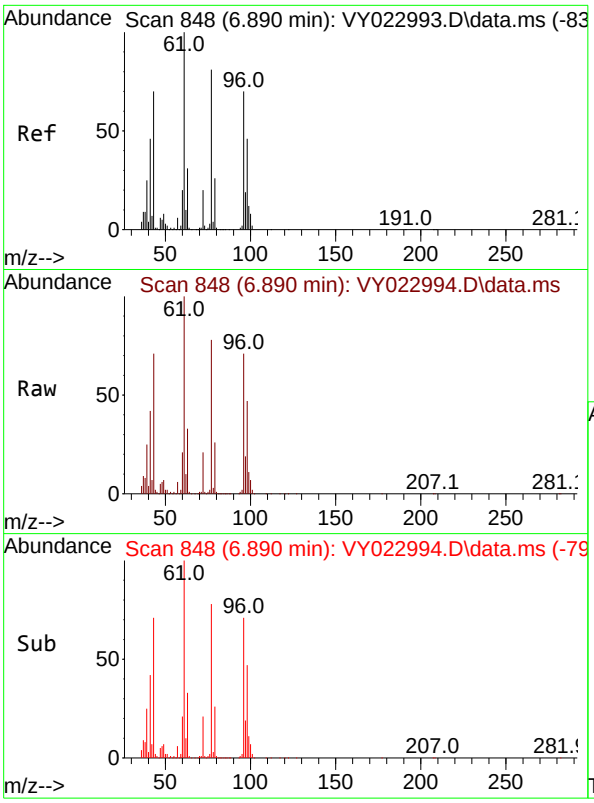


#24
1,1-Dichloroethane
Concen: 97.216 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 63 Resp: 998111

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.5
100	4.6	2.1	6.2





#25
2-Butanone
Concen: 508.682 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

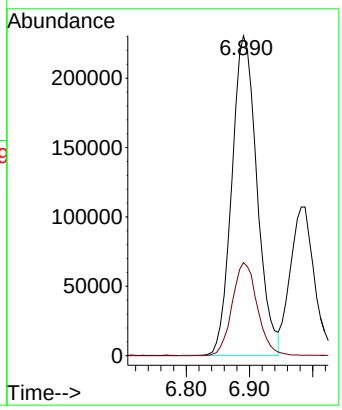
Tgt Ion: 43 Resp: 63735

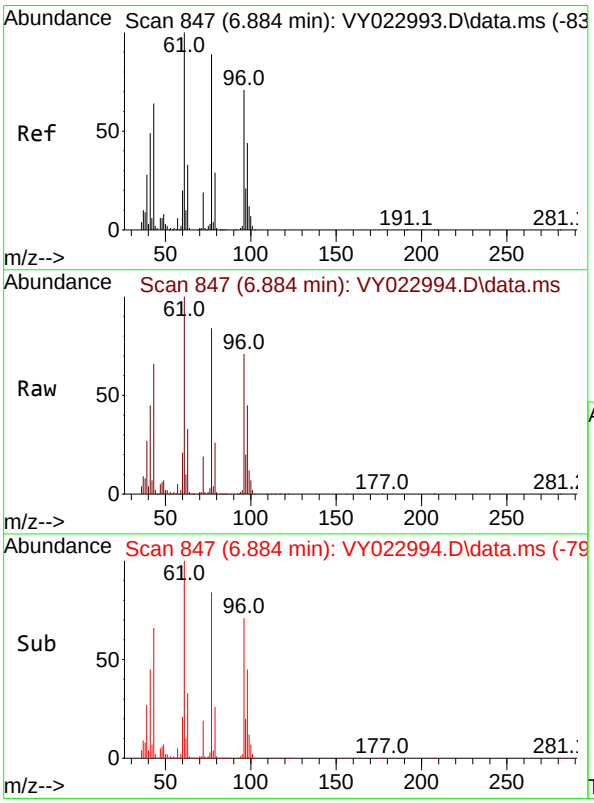
Ion	Ratio	Lower	Upper
43	100		
72	29.1	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

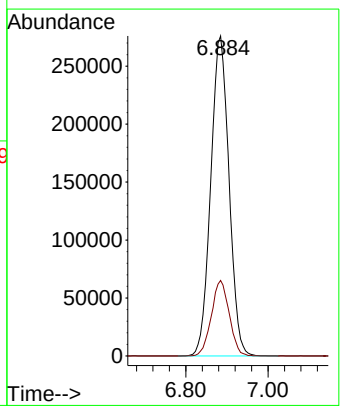


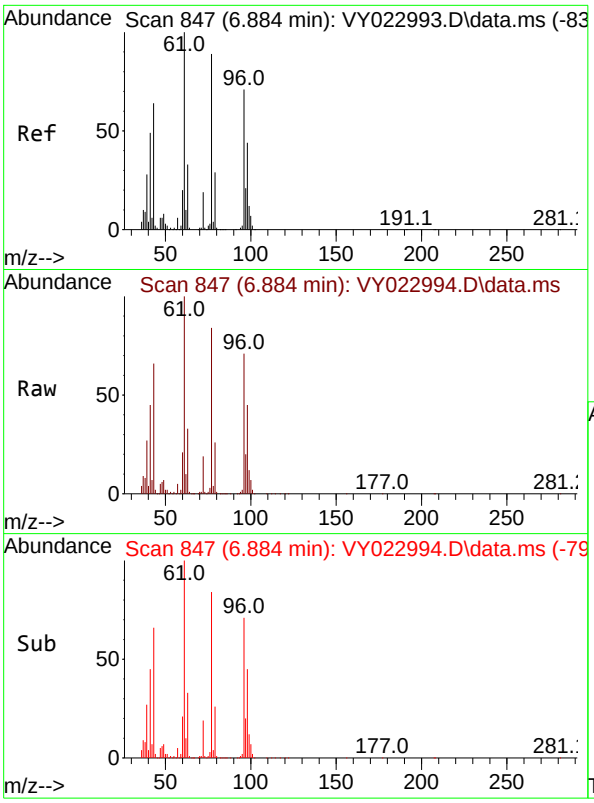


#26
2,2-Dichloropropane
Concen: 94.504 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 77 Resp: 850357

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.3	33.9

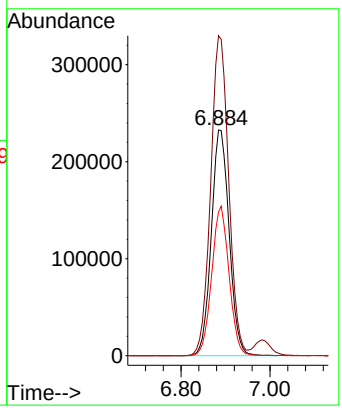




#27
cis-1,2-Dichloroethene
Concen: 99.748 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 96 Resp: 64718

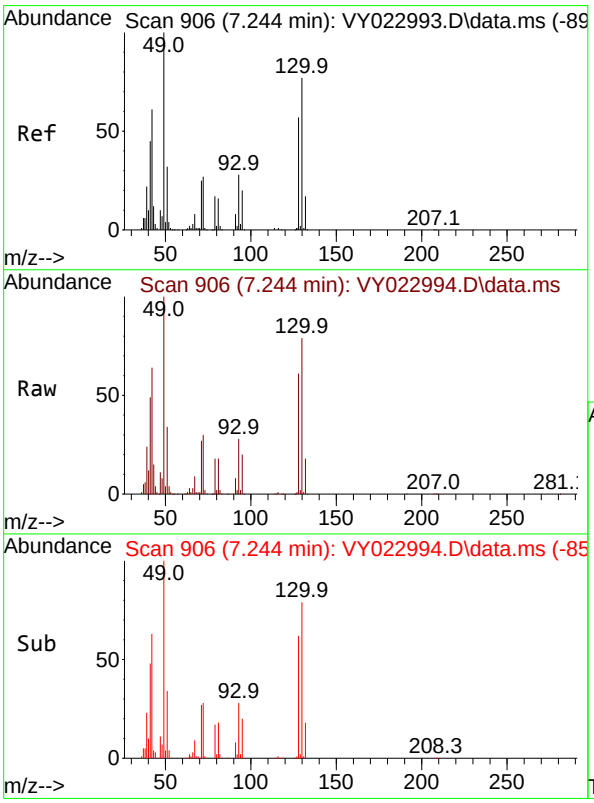
Ion	Ratio	Lower	Upper
96	100		
61	143.5	0.0	286.2
98	64.5	0.0	127.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

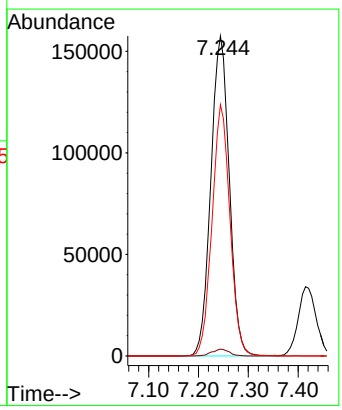
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

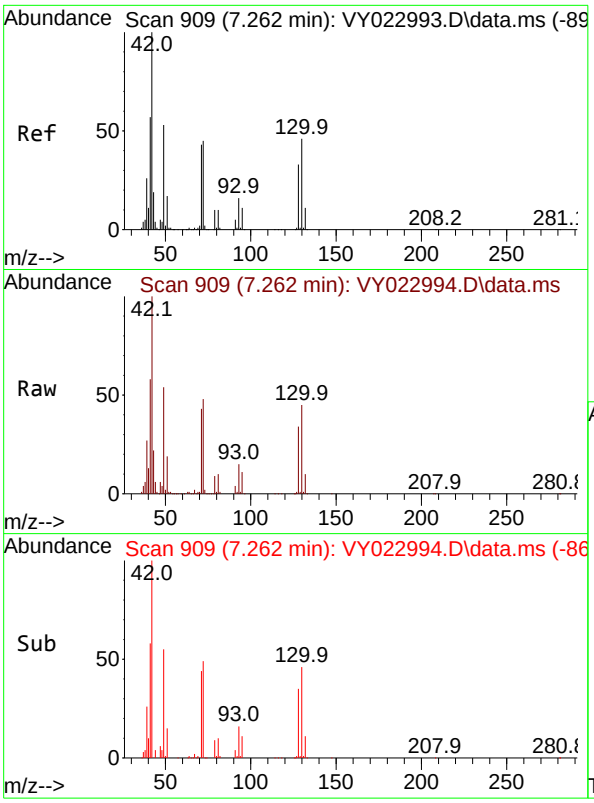


#28
Bromochloromethane
Concen: 101.639 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 49 Resp: 404739

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	76.3	61.8	92.8

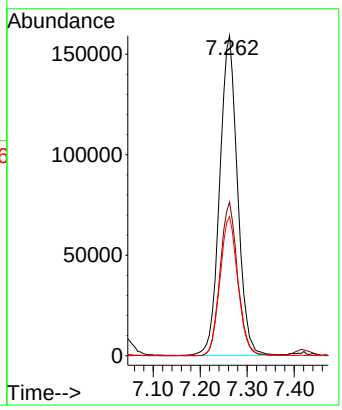




#29
Tetrahydrofuran
Concen: 529.354 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 42 Resp: 41992

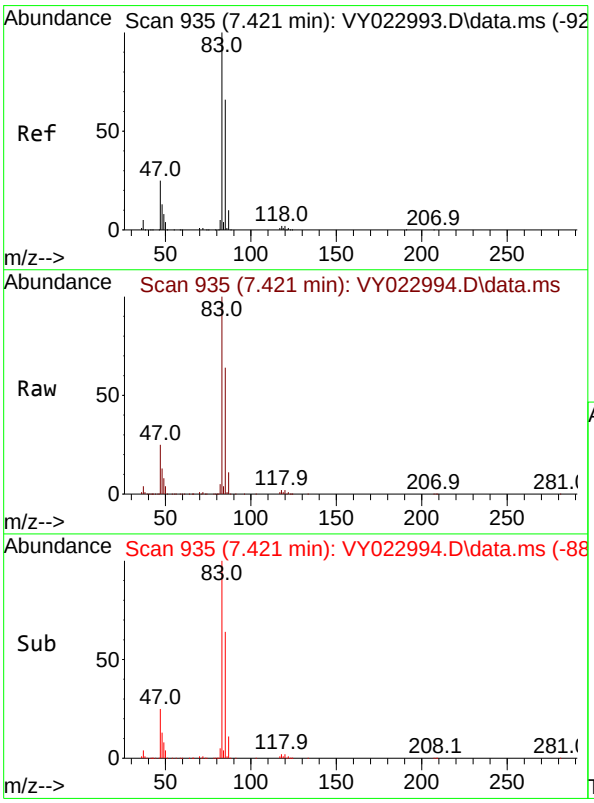
Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.5	56.3
71	43.6	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

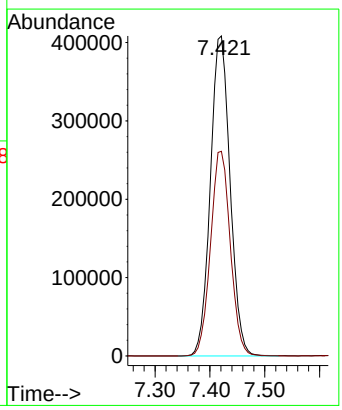
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

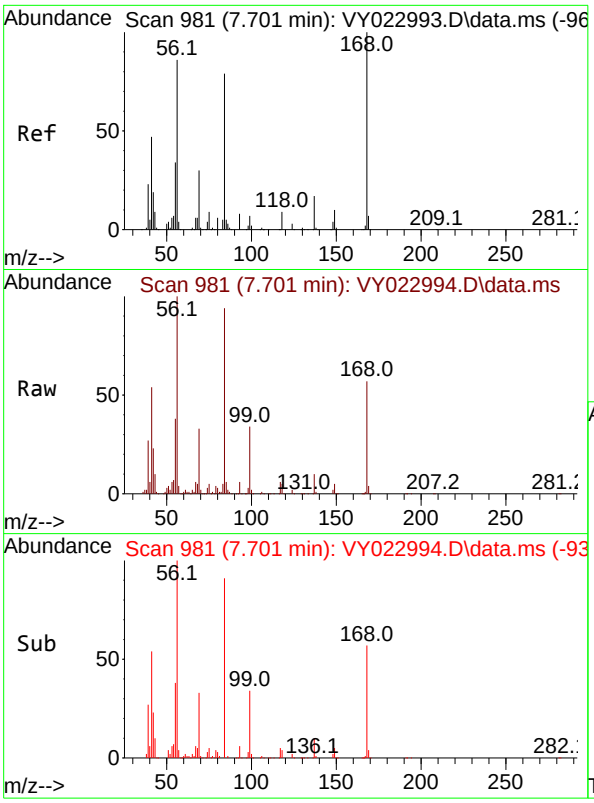


#30
Chloroform
Concen: 98.332 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 83 Resp: 1018437

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	78.8

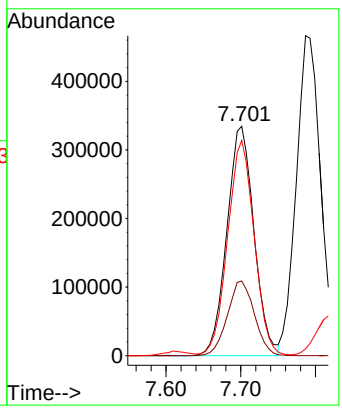




#31
Cyclohexane
Concen: 88.057 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 56 Resp: 84475

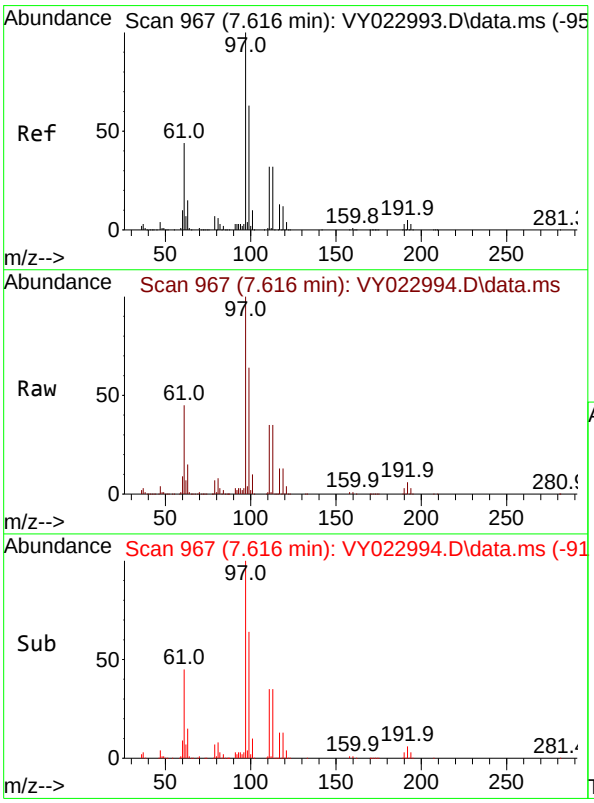
Ion	Ratio	Lower	Upper
56	100		
69	32.5	28.1	42.1
84	92.2	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

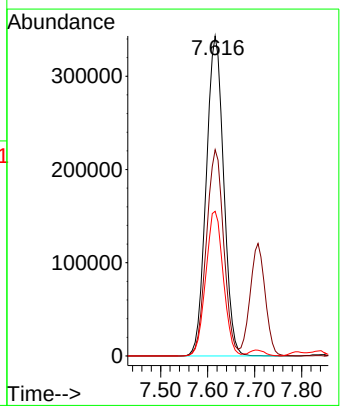
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

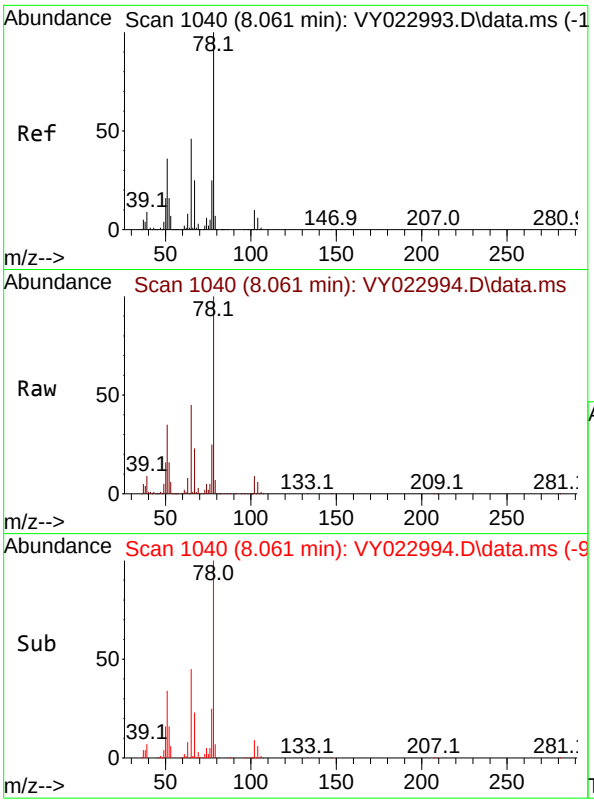


#32
1,1,1-Trichloroethane
Concen: 94.120 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 97 Resp: 884489

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.1	76.7
61	45.5	36.1	54.1

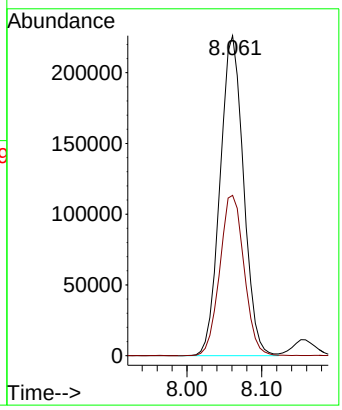




#33
1,2-Dichloroethane-d4
Concen: 102.513 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 65 Resp: 49393

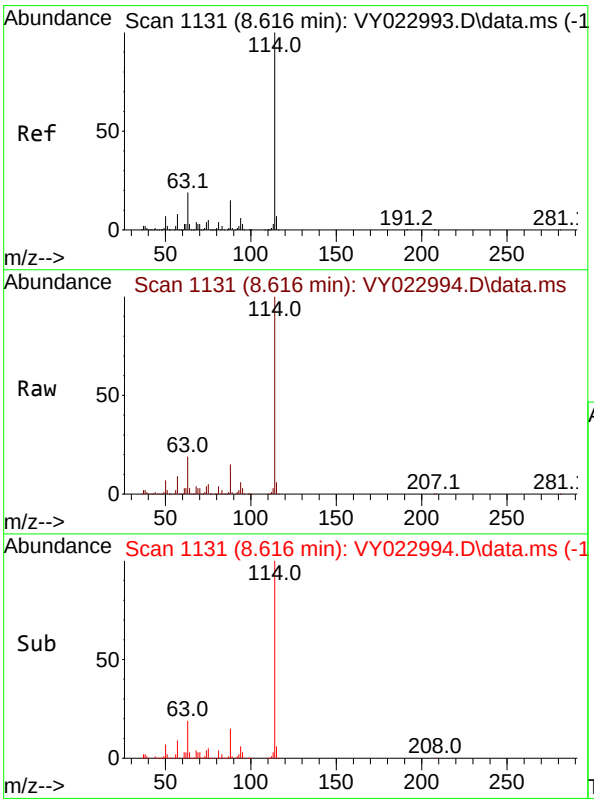
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

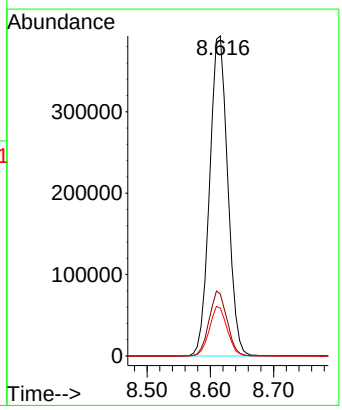
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

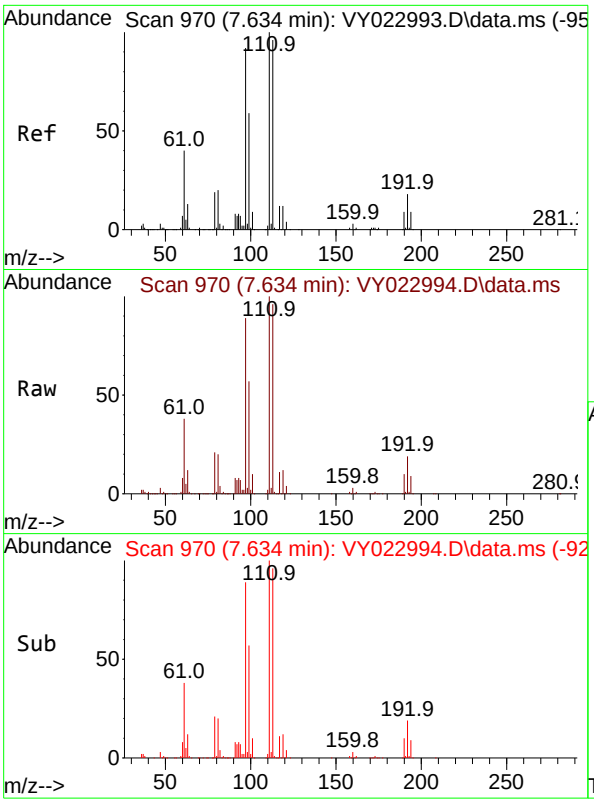


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:114 Resp: 780876

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.8
88	15.0	0.0	30.2

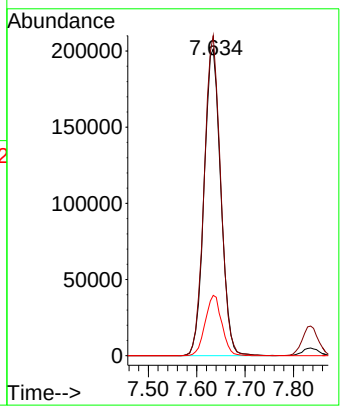




#35
Dibromofluoromethane
Concen: 97.440 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:113 Resp: 48265

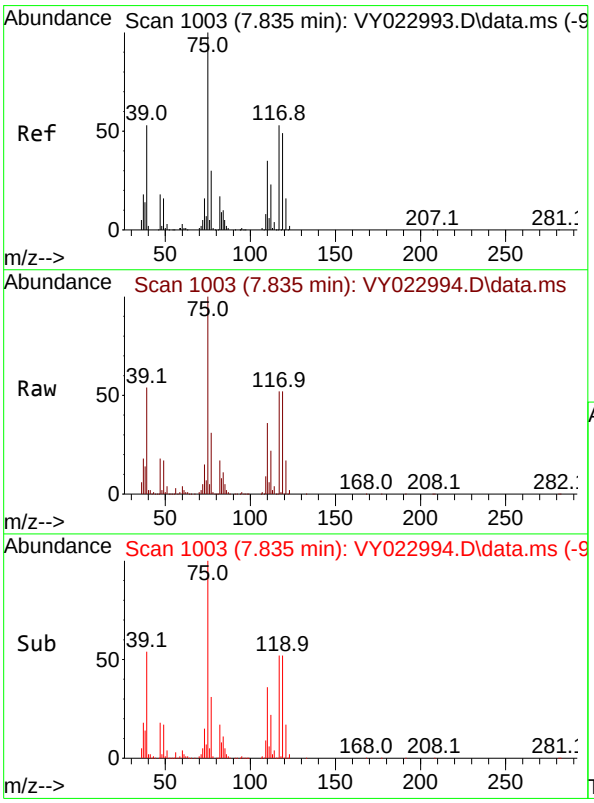
Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.2	124.8
192	19.5	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

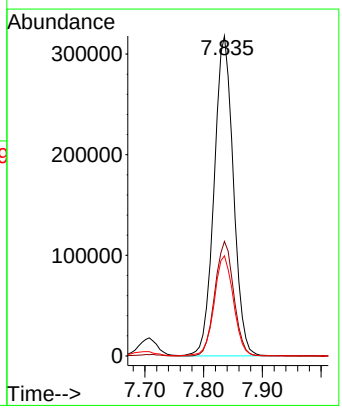
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

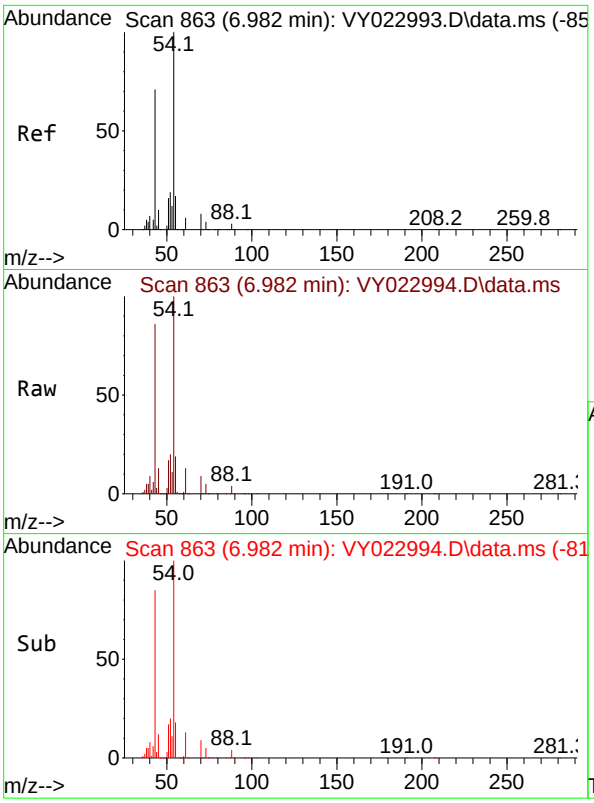


#36
1,1-Dichloropropene
Concen: 92.565 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 722234

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.3	51.9
77	31.4	24.6	37.0

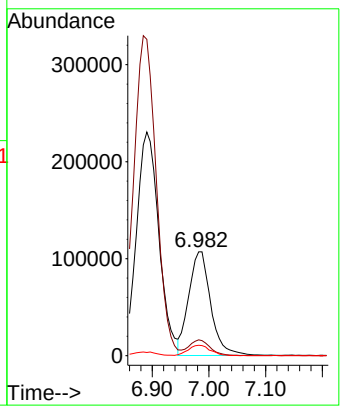




#37
Ethyl Acetate
Concen: 99.541 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 28844

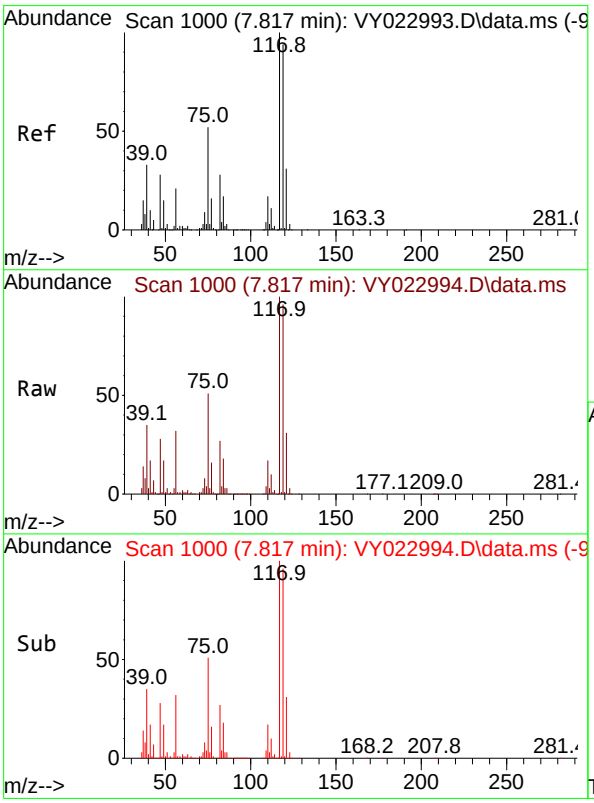
Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	10.3	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

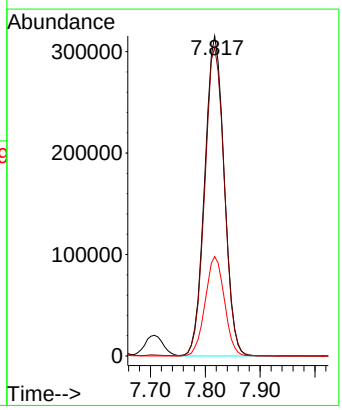
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

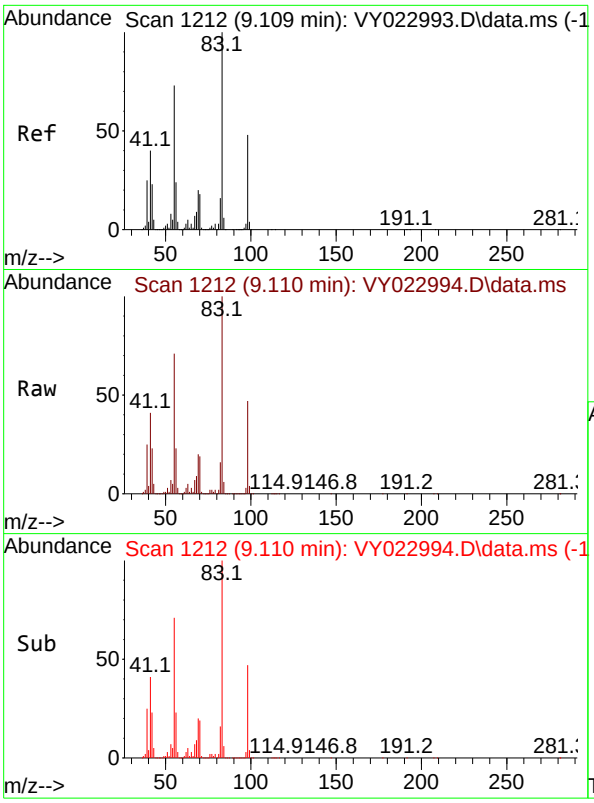


#38
Carbon Tetrachloride
Concen: 91.791 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:117 Resp: 778082

Ion	Ratio	Lower	Upper
117	100		
119	96.4	74.9	112.3
121	31.0	24.6	37.0





#39
Methylcyclohexane
Concen: 93.389 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

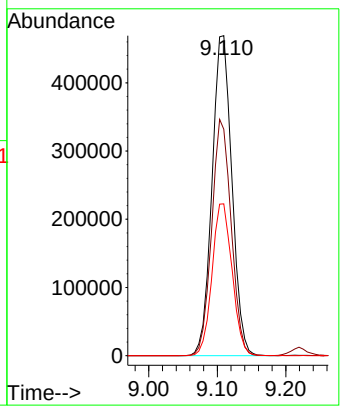
Tgt Ion: 83 Resp: 94313

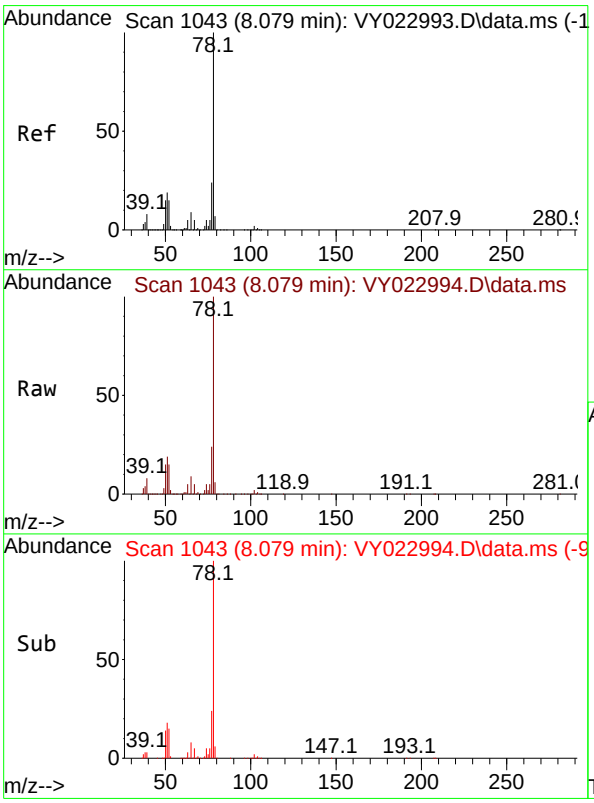
Ion	Ratio	Lower	Upper
83	100		
55	70.7	58.1	87.1
98	47.4	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

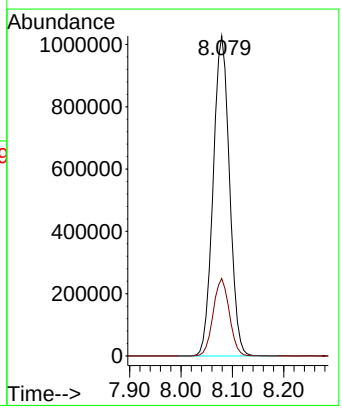


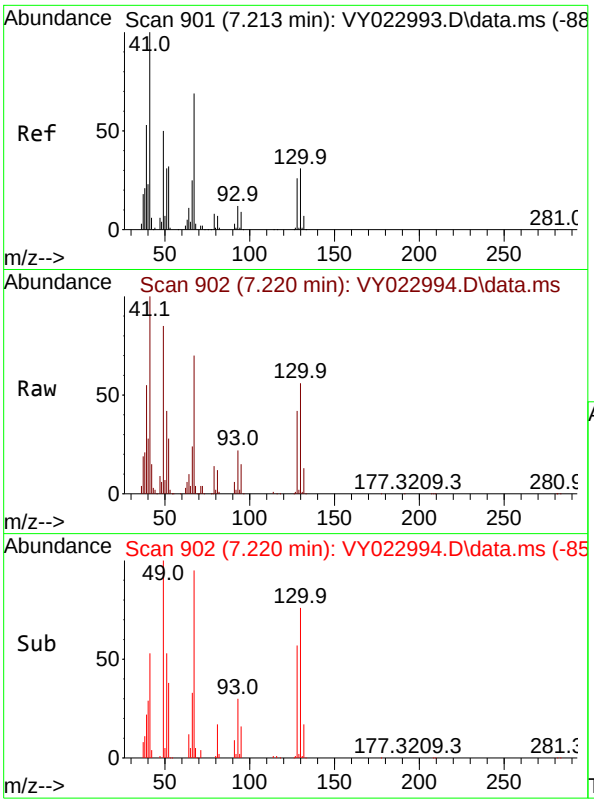


#40
Benzene
Concen: 96.608 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 78 Resp: 2269537

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4

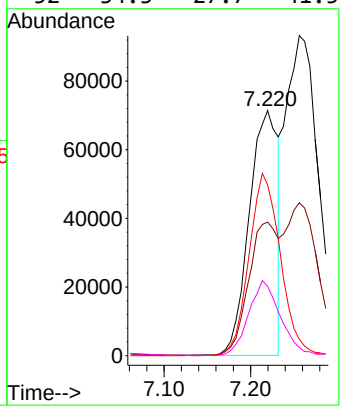




#41
Methacrylonitrile
Concen: 107.489 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 41 Resp: 16440(

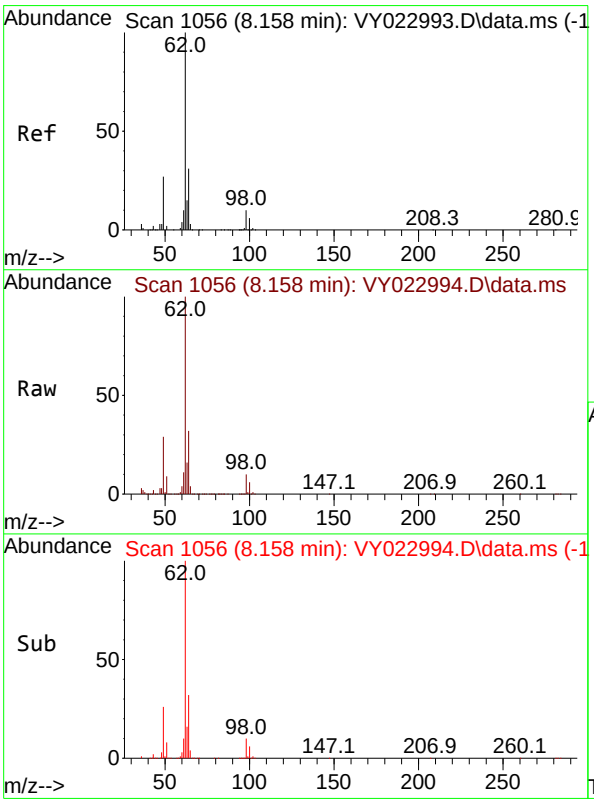
Ion	Ratio	Lower	Upper
41	100		
39	55.5	50.0	75.0
67	81.6	65.4	98.2
52	34.3	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

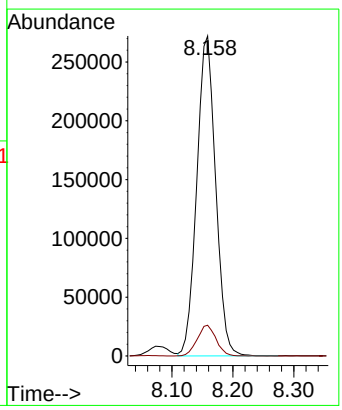
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

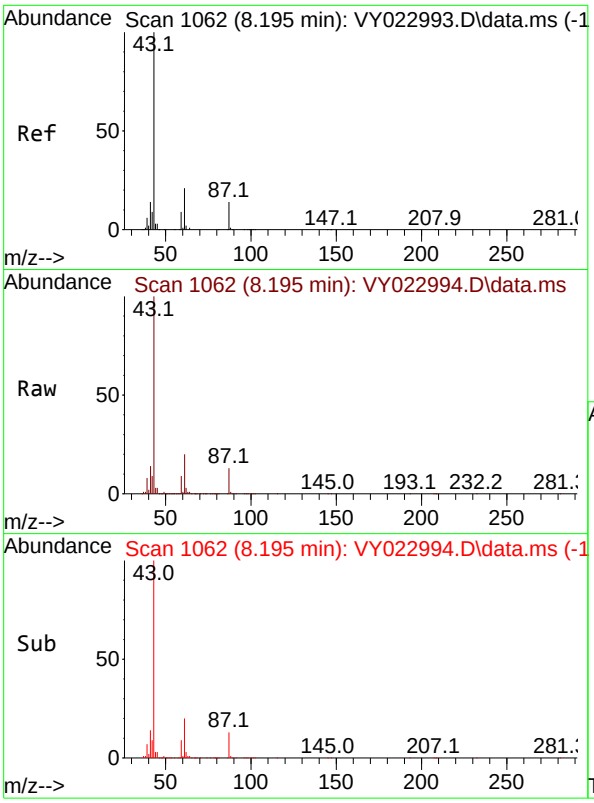


#42
1,2-Dichloroethane
Concen: 100.148 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 62 Resp: 585330

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.0





#43
Isopropyl Acetate
Concen: 105.586 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

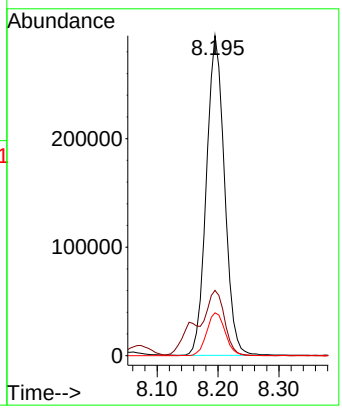
Tgt Ion: 43 Resp: 60775

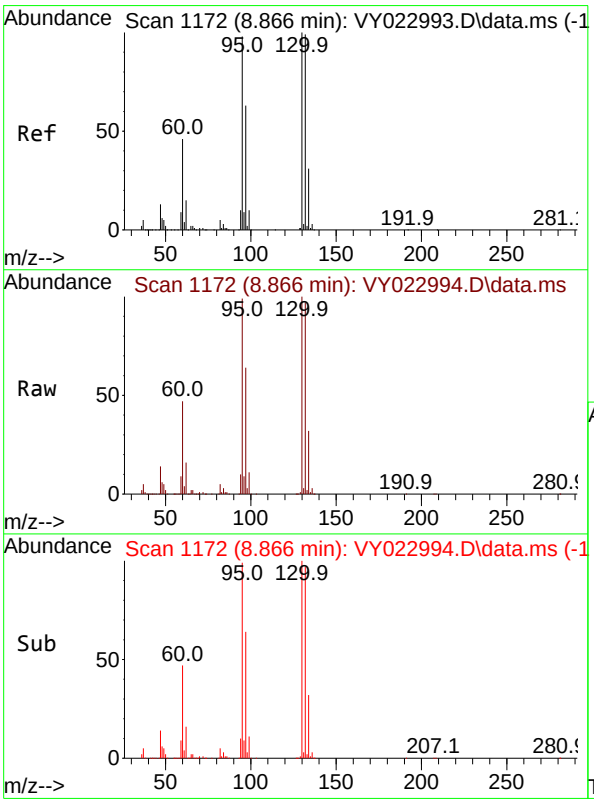
Ion	Ratio	Lower	Upper
43	100		
61	20.5	25.0	37.4
87	13.8	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

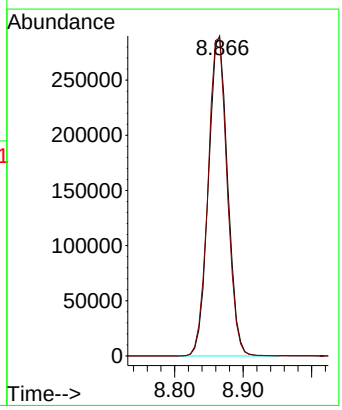


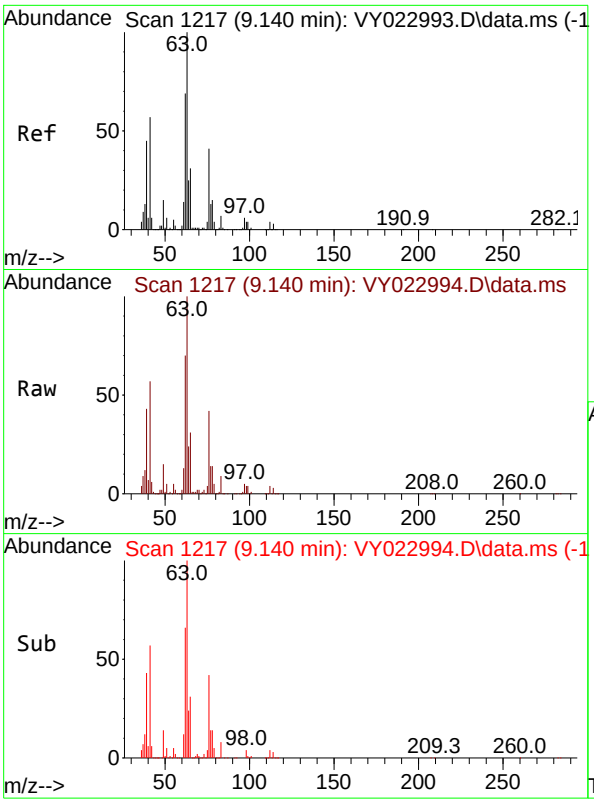


#44
Trichloroethene
Concen: 93.331 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:130 Resp: 563155

Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	195.8





#45
1,2-Dichloropropane
Concen: 97.337 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

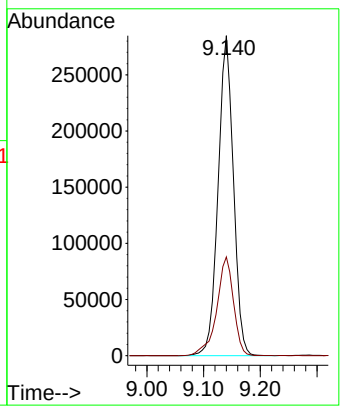
Tgt Ion: 63 Resp: 53399

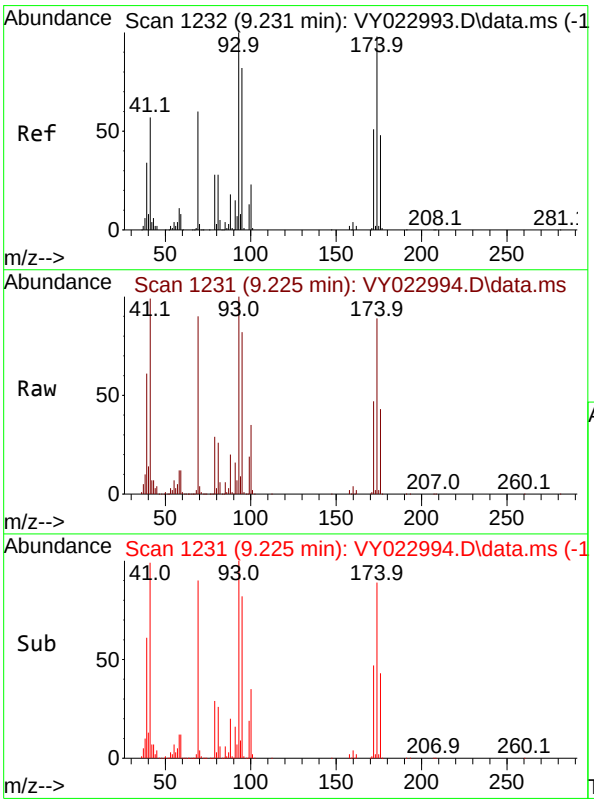
Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

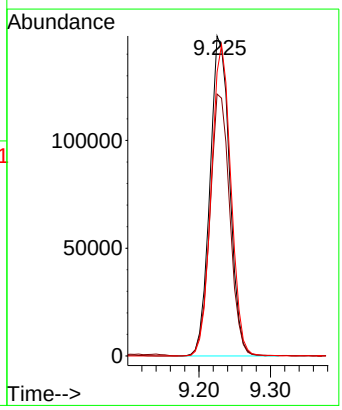


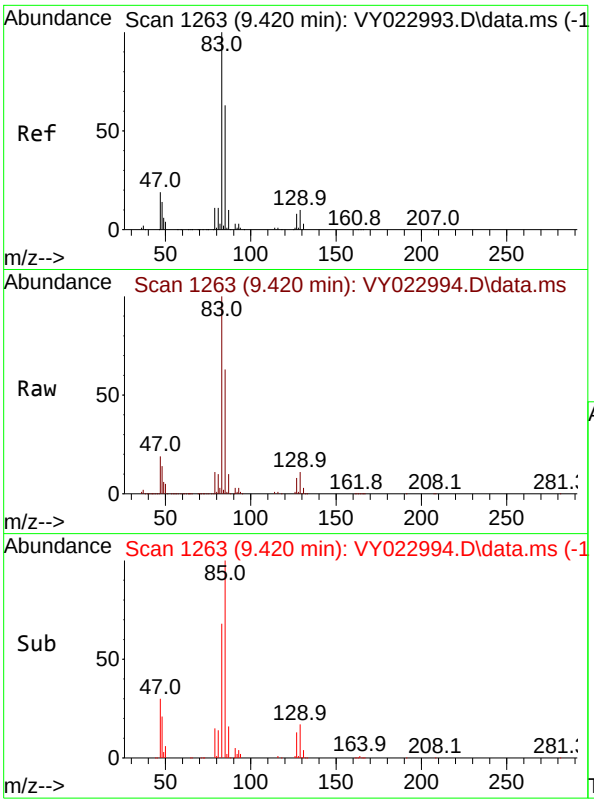


#46
Dibromomethane
Concen: 100.232 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 93 Resp: 284227

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.9	98.9
174	96.9	76.4	114.6

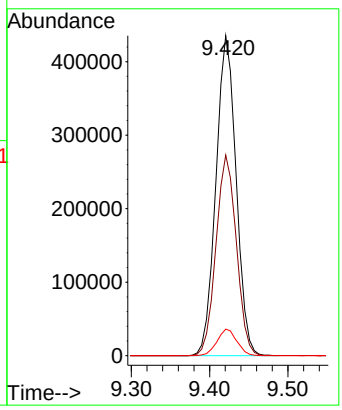




#47
Bromodichloromethane
Concen: 99.747 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 83 Resp: 78185

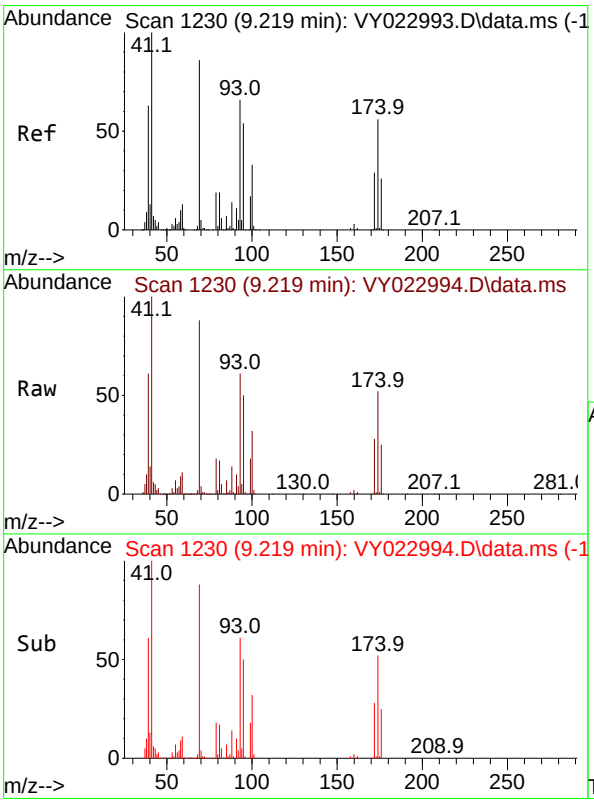
Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.6	75.8
127	8.3	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

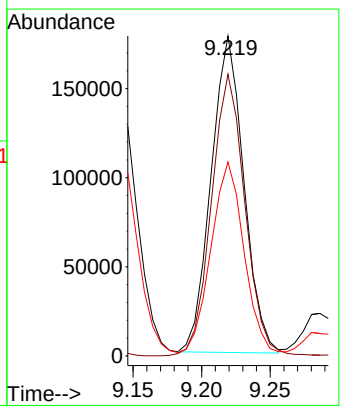
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

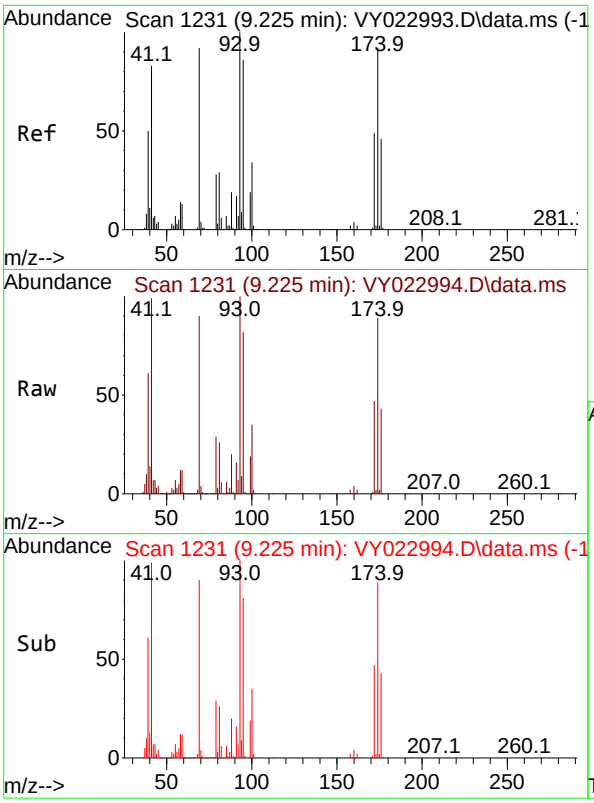


#48
Methyl methacrylate
Concen: 106.166 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 41 Resp: 295029

Ion	Ratio	Lower	Upper
41	100		
69	91.2	71.4	107.0
39	60.5	47.8	71.8





#49
1,4-Dioxane
Concen: 2181.786 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

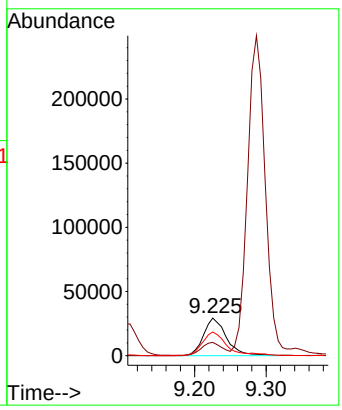
Tgt Ion: 88 Resp: 6521

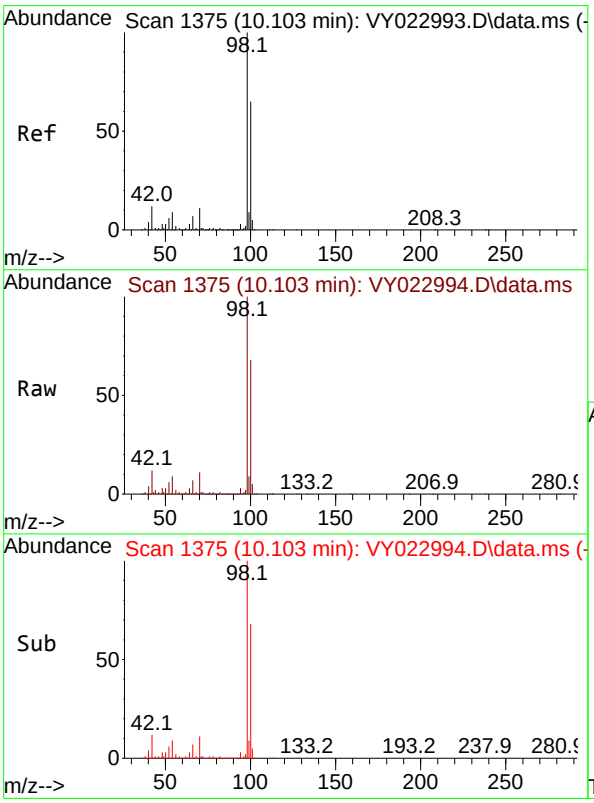
Ion	Ratio	Lower	Upper
88	100		
43	31.9	28.7	43.1
58	68.7	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

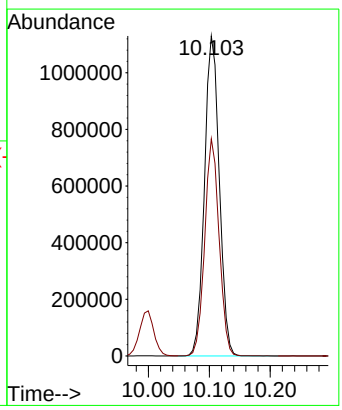


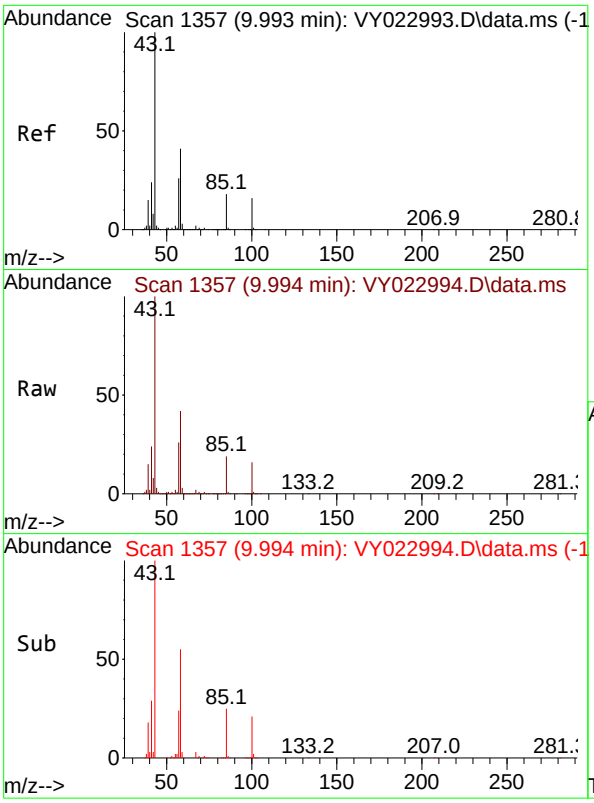


#50
Toluene-d8
Concen: 97.264 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 98 Resp: 1910579

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2

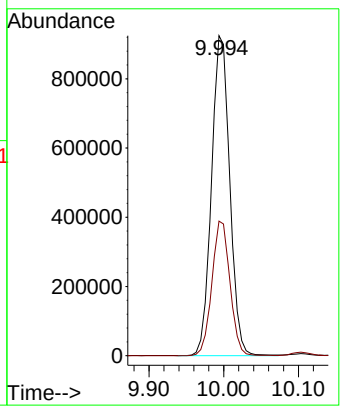




#51
4-Methyl-2-Pentanone
Concen: 535.675 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 156502

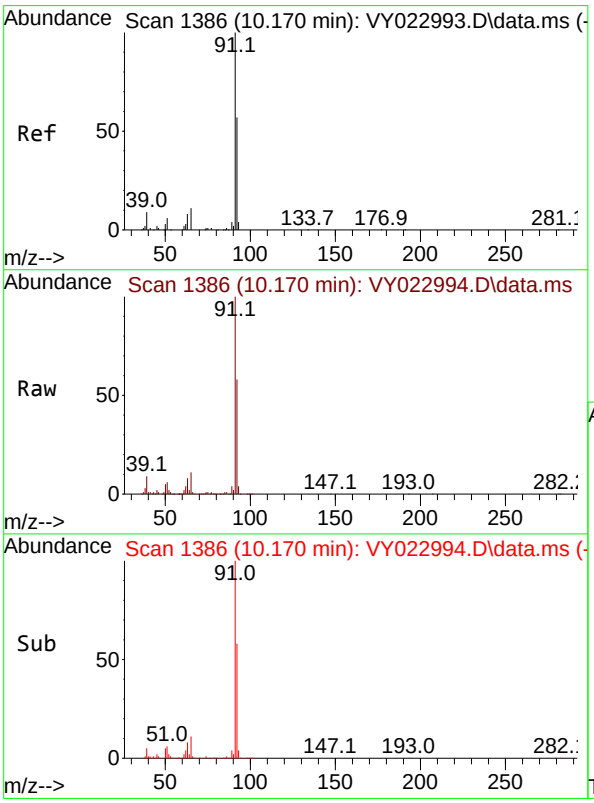
Ion	Ratio	Lower	Upper
43	100		
58	41.7	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

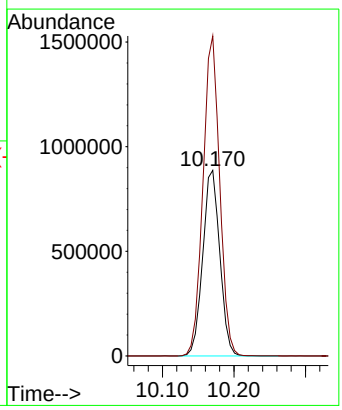
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

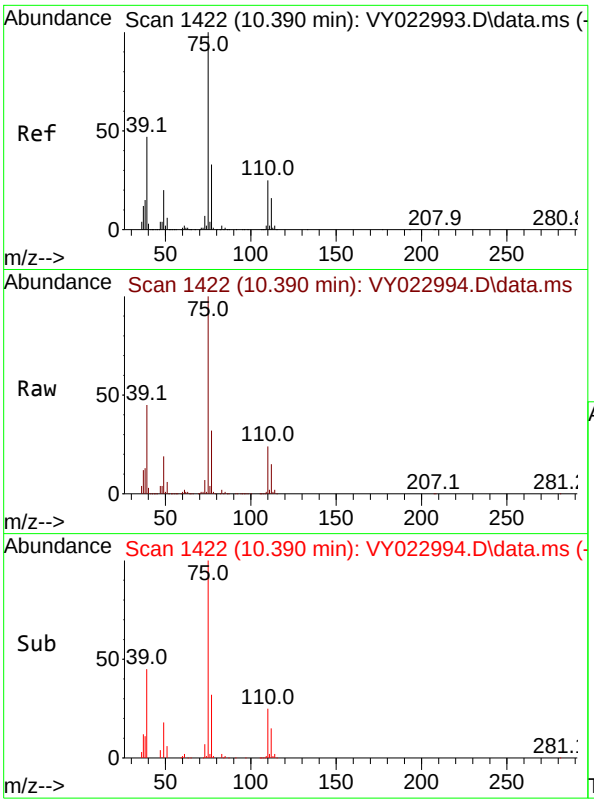


#52
Toluene
Concen: 100.411 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 92 Resp: 1466593

Ion	Ratio	Lower	Upper
92	100		
91	169.2	137.8	206.6





#53
t-1,3-Dichloropropene
Concen: 104.909 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

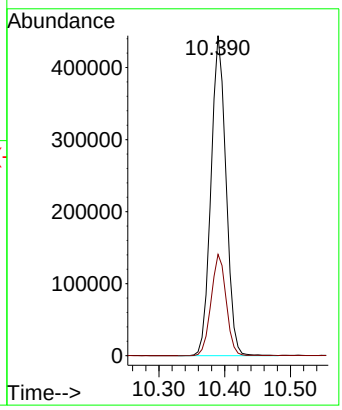
Tgt Ion: 75 Resp: 70588

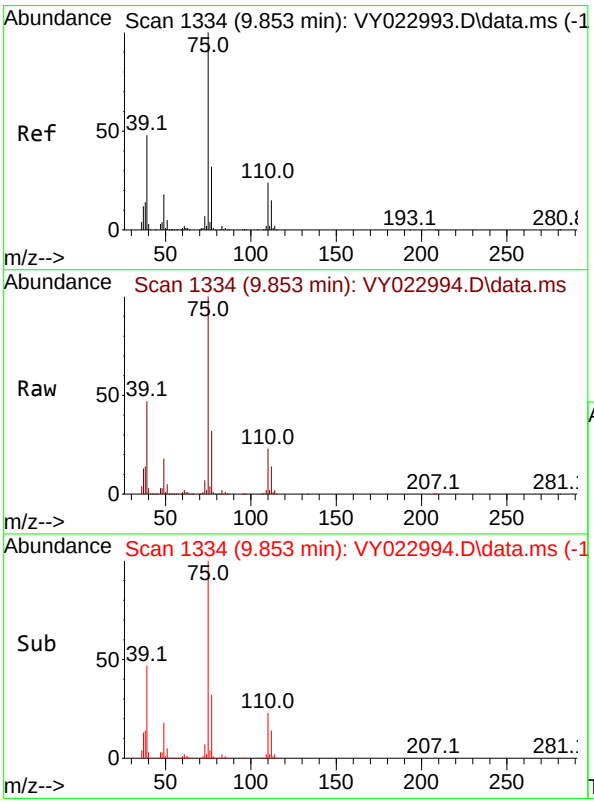
Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.4	39.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

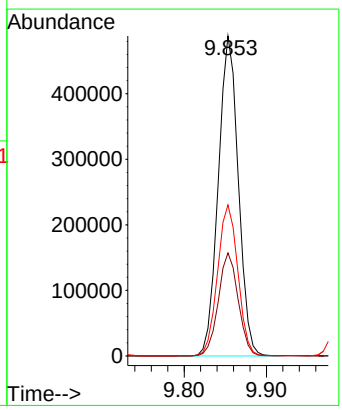


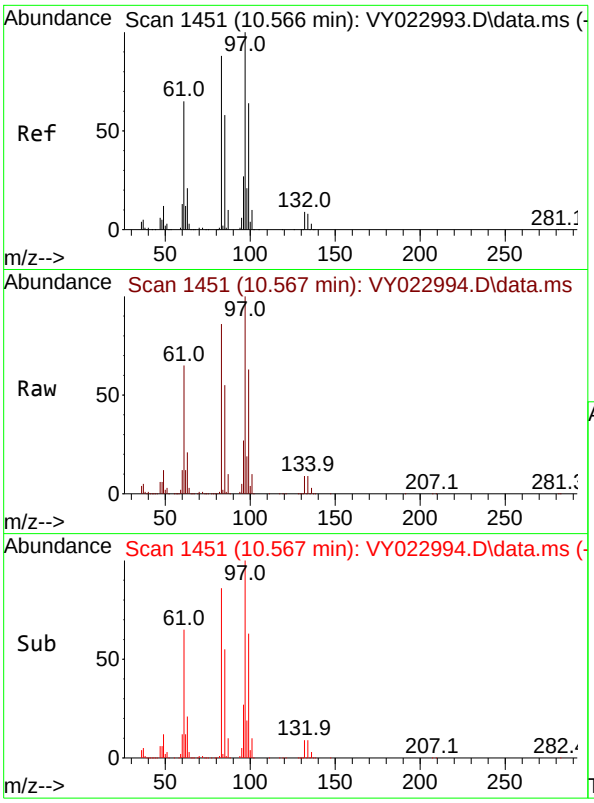


#54
cis-1,3-Dichloropropene
Concen: 101.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 825037

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	47.2	38.2	57.2

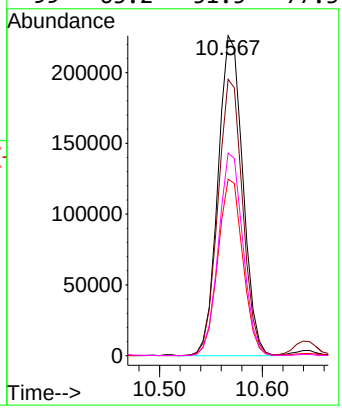




#55
1,1,2-Trichloroethane
Concen: 101.863 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 97 Resp: 37965

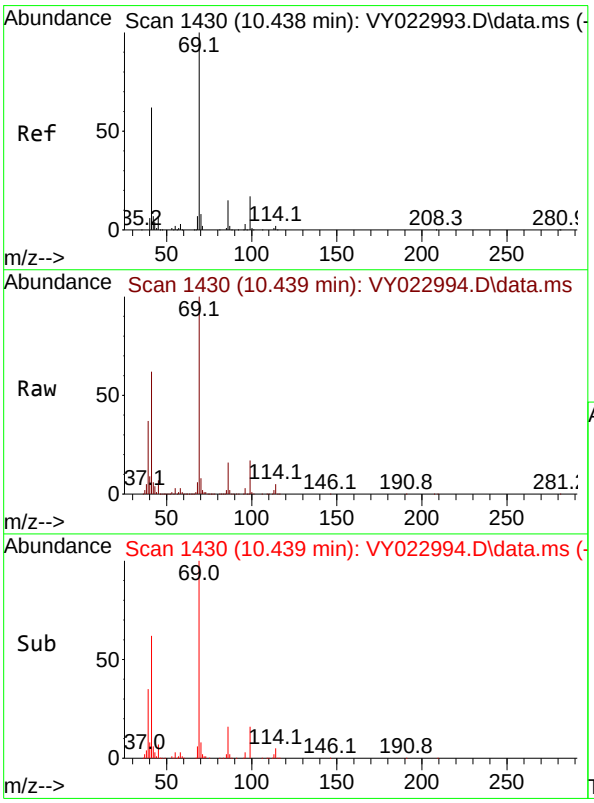
Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.2	105.2
85	55.2	46.2	69.2
99	63.2	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

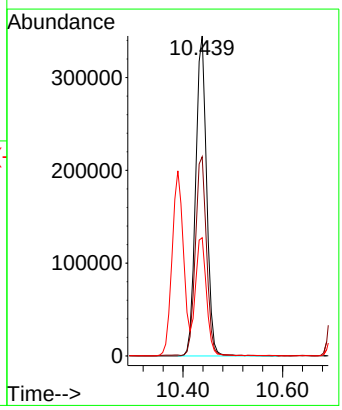
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

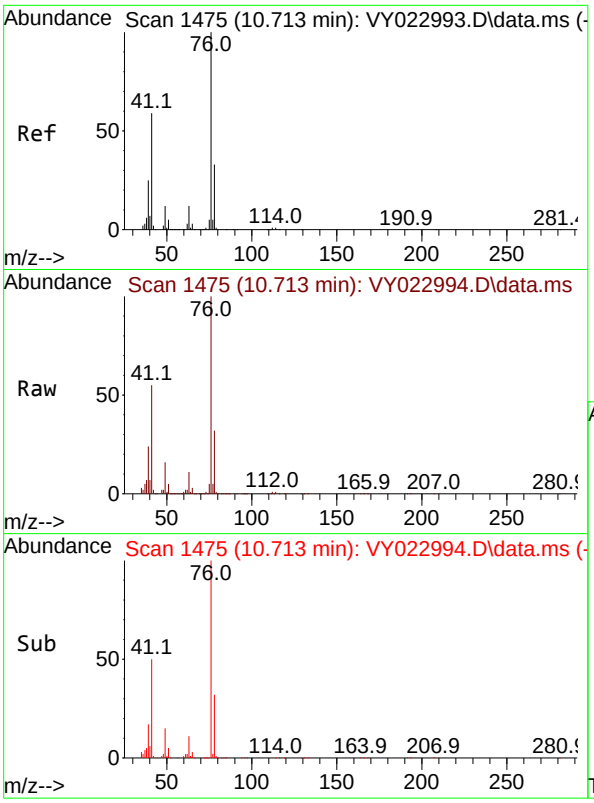


#56
Ethyl methacrylate
Concen: 112.902 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 69 Resp: 525284

Ion	Ratio	Lower	Upper
69	100		
41	63.2	51.0	76.4
39	37.1	30.6	46.0





#57
1,3-Dichloropropane
Concen: 102.392 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

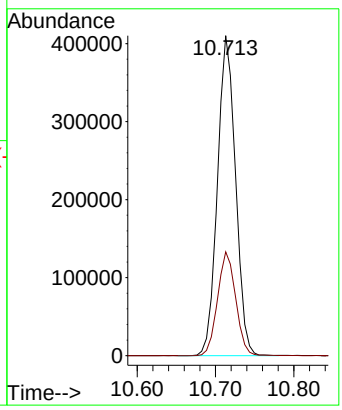
Tgt Ion: 76 Resp: 65924

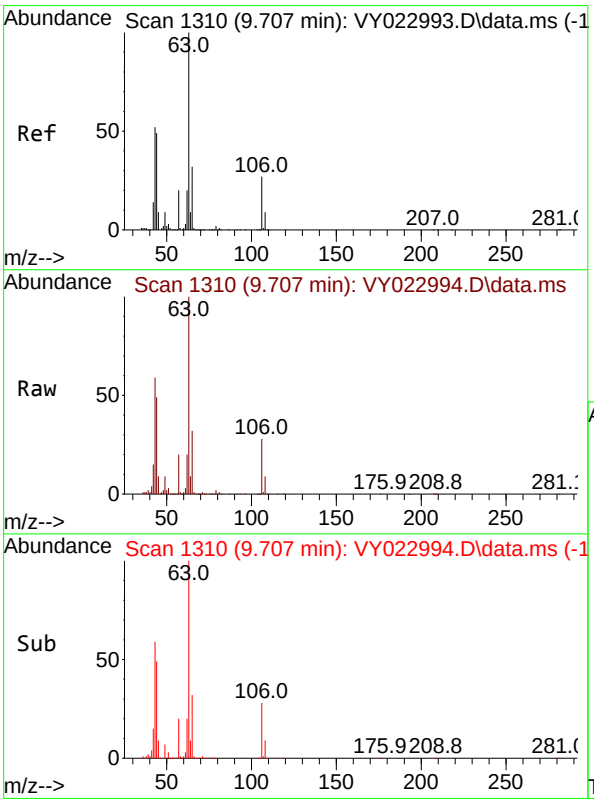
Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

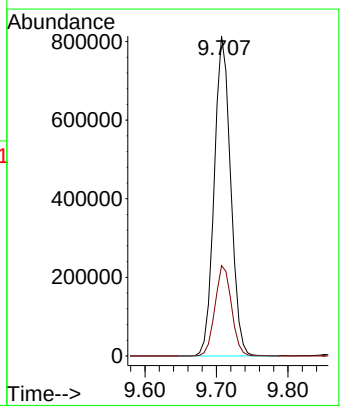


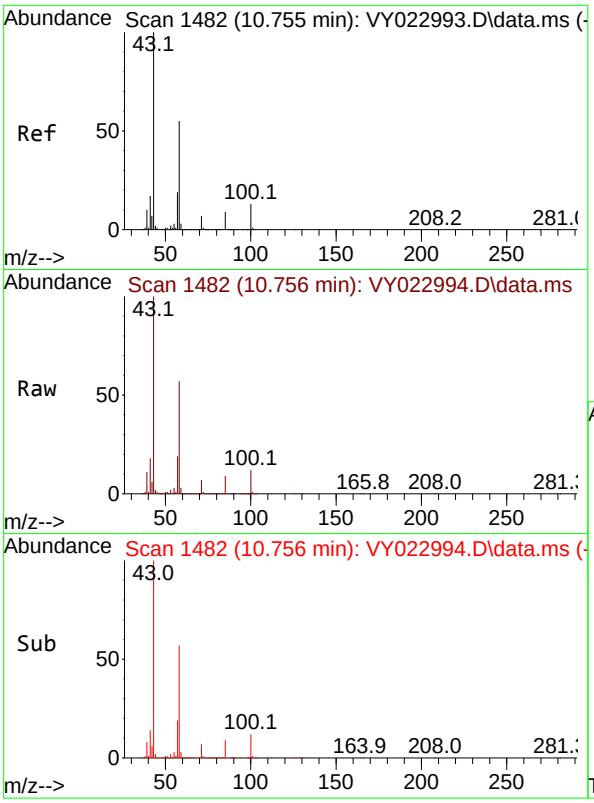


#58
2-Chloroethyl Vinyl ether
Concen: 570.401 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 63 Resp: 1299087

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.6	33.8





#59
2-Hexanone
Concen: 539.710 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

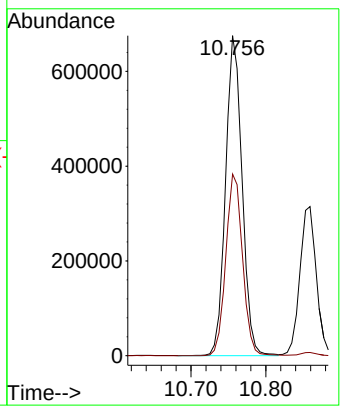
Tgt Ion: 43 Resp: 103646

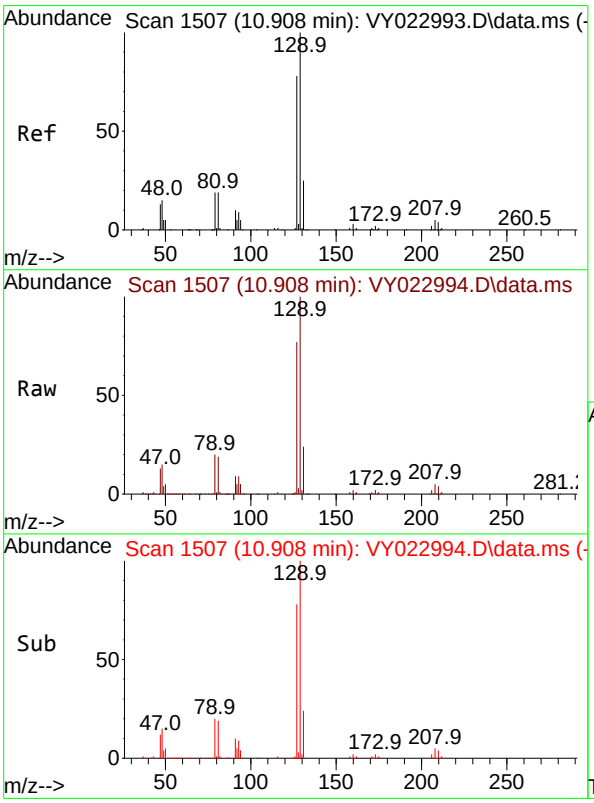
Ion	Ratio	Lower	Upper
43	100		
58	57.4	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

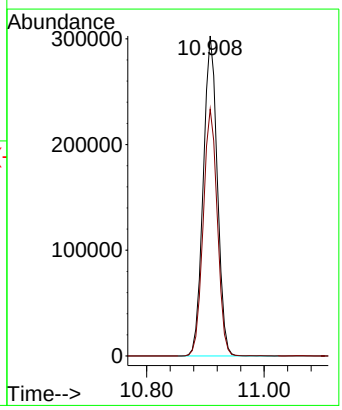


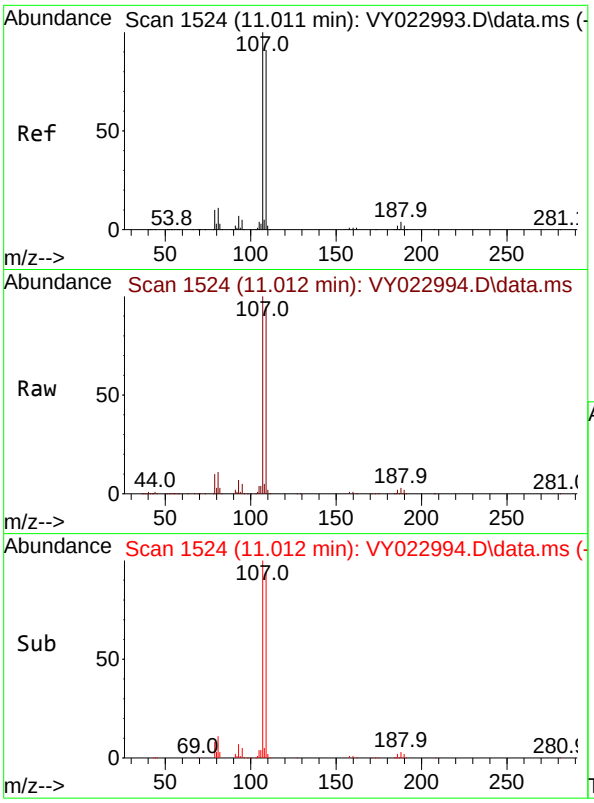


#60
Dibromochloromethane
Concen: 102.935 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:129 Resp: 502369

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.7	116.1

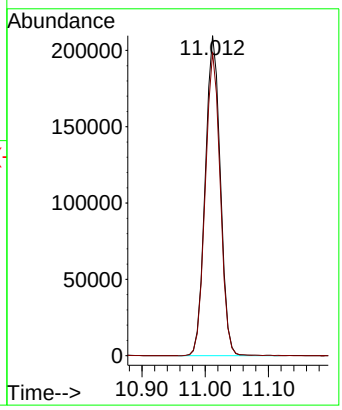




#61
1,2-Dibromoethane
Concen: 102.869 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:107 Resp: 34816

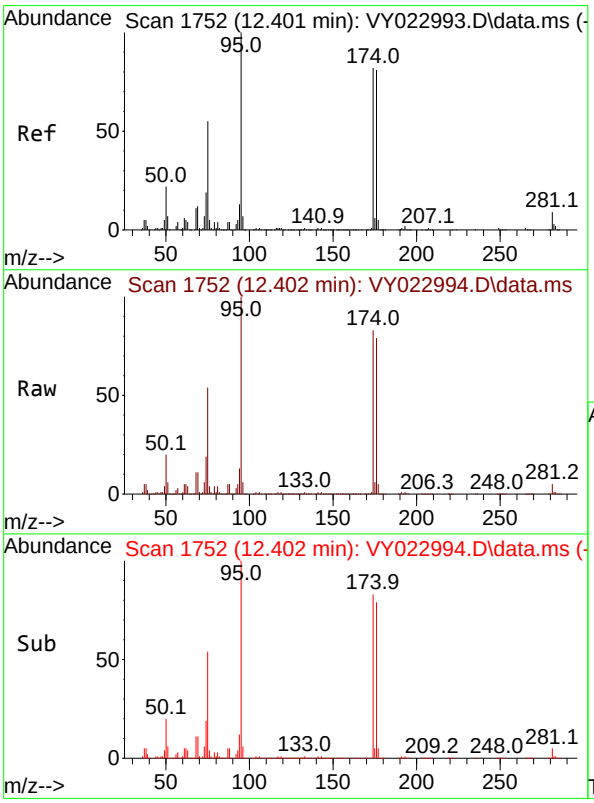
Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

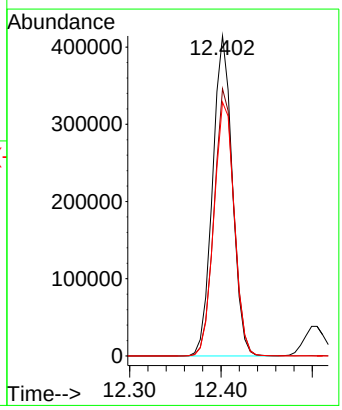
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

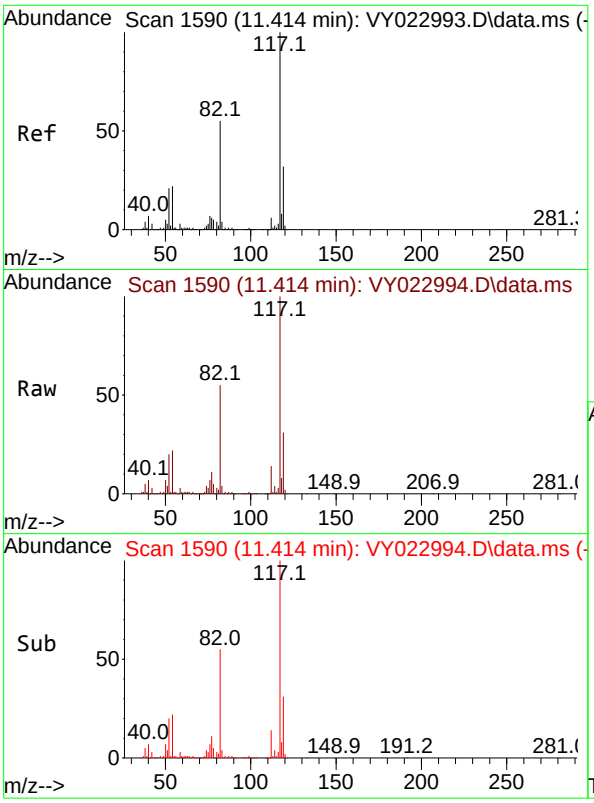


#62
4-Bromofluorobenzene
Concen: 100.465 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 95 Resp: 621212

Ion	Ratio	Lower	Upper
95	100		
174	84.0	0.0	170.8
176	81.8	0.0	163.6

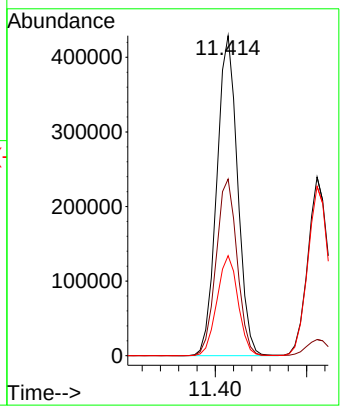




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:117 Resp: 67853

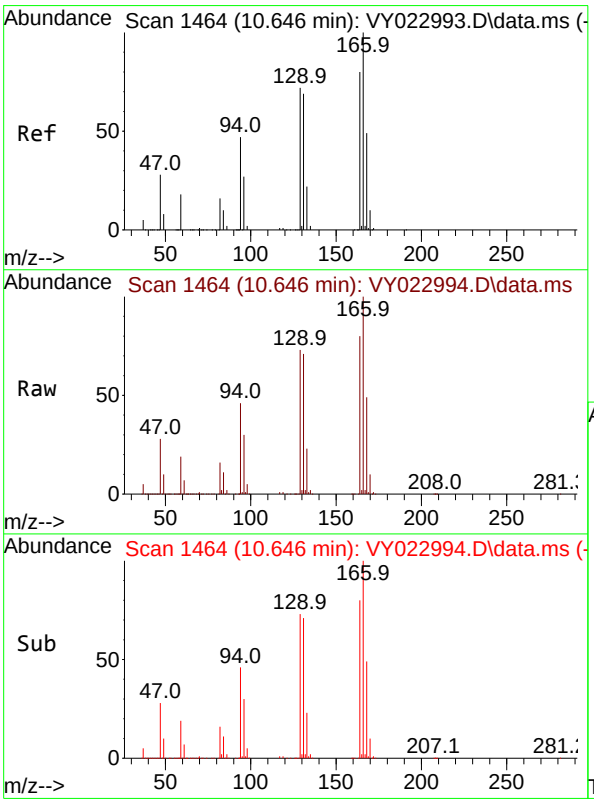
Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.3	66.5
119	31.2	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

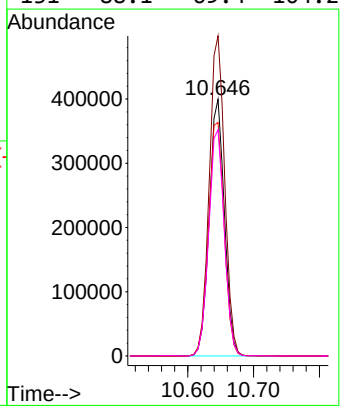
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

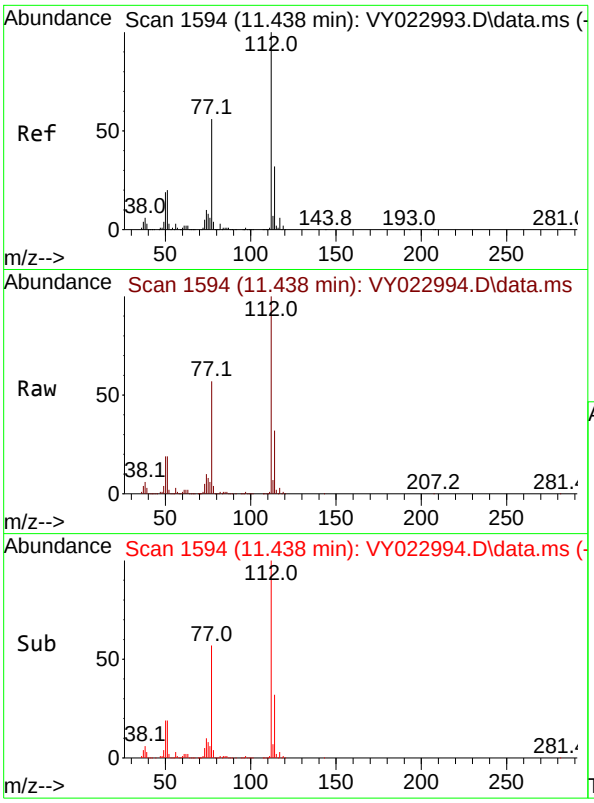


#64
Tetrachloroethene
Concen: 92.667 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:164 Resp: 642694

Ion	Ratio	Lower	Upper
164	100		
166	124.7	100.2	150.2
129	91.0	71.7	107.5
131	88.1	69.4	104.2

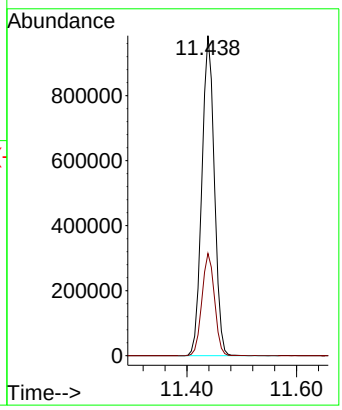




#65
Chlorobenzene
Concen: 97.021 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:112 Resp: 155343

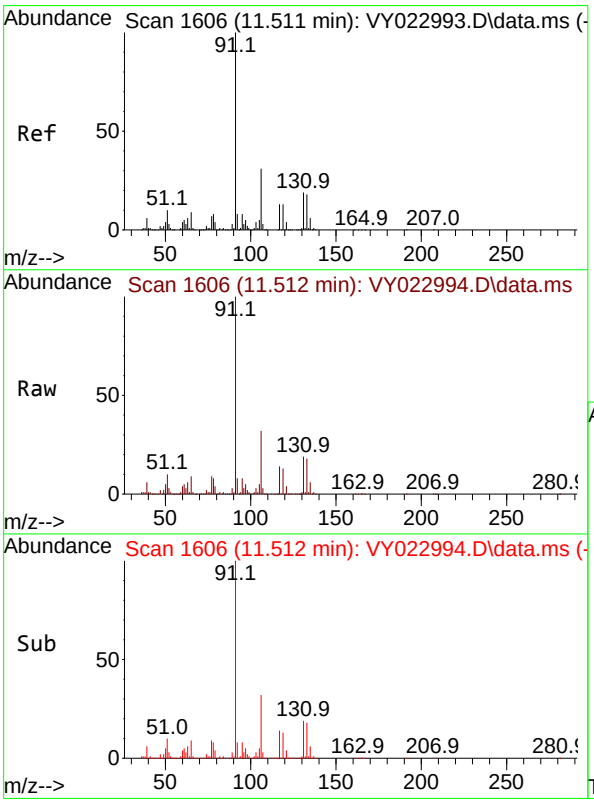
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

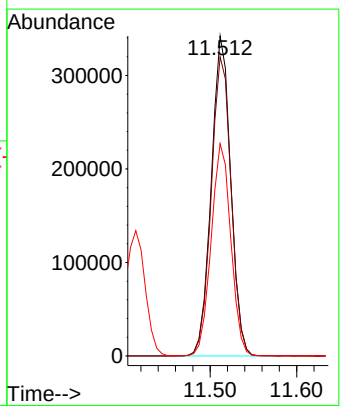
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

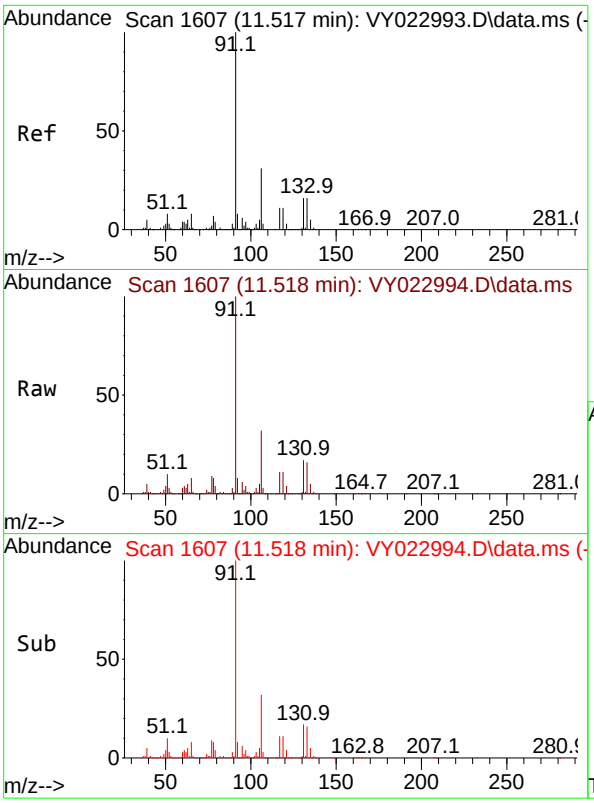


#66
1,1,1,2-Tetrachloroethane
Concen: 97.795 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:131 Resp: 534070

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.8	143.3
119	67.0	33.3	99.8





#67
Ethyl Benzene
Concen: 98.709 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

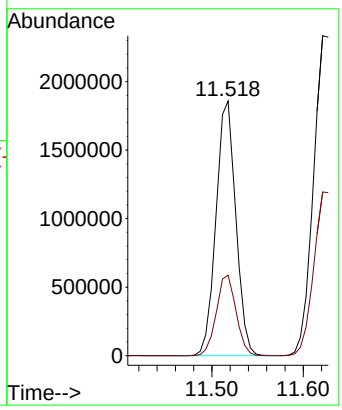
Tgt Ion: 91 Resp: 280137

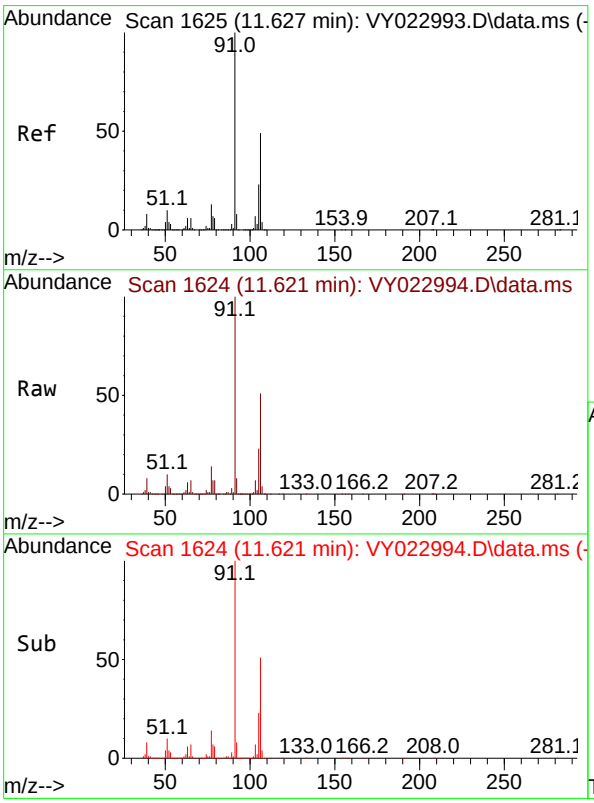
Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

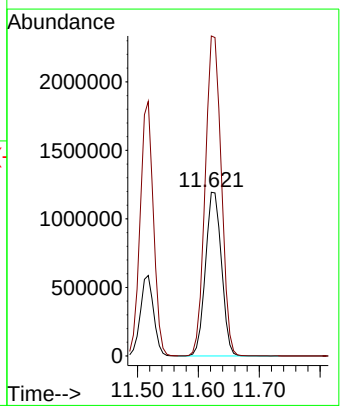


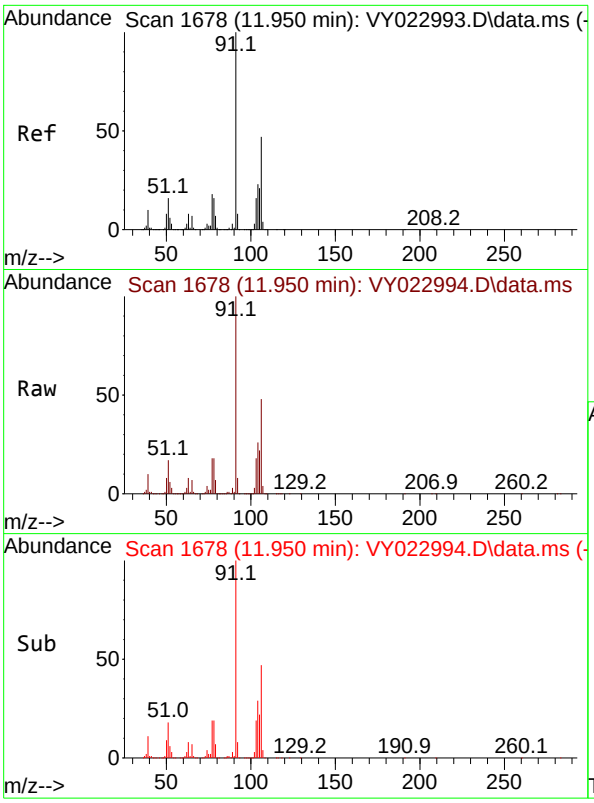


#68
m/p-Xylenes
Concen: 199.933 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:106 Resp: 2176388

Ion	Ratio	Lower	Upper
106	100		
91	196.5	159.8	239.8





#69
o-Xylene
Concen: 101.898 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

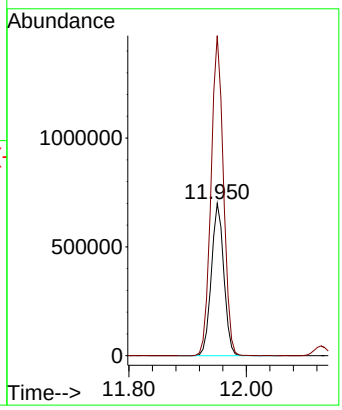
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

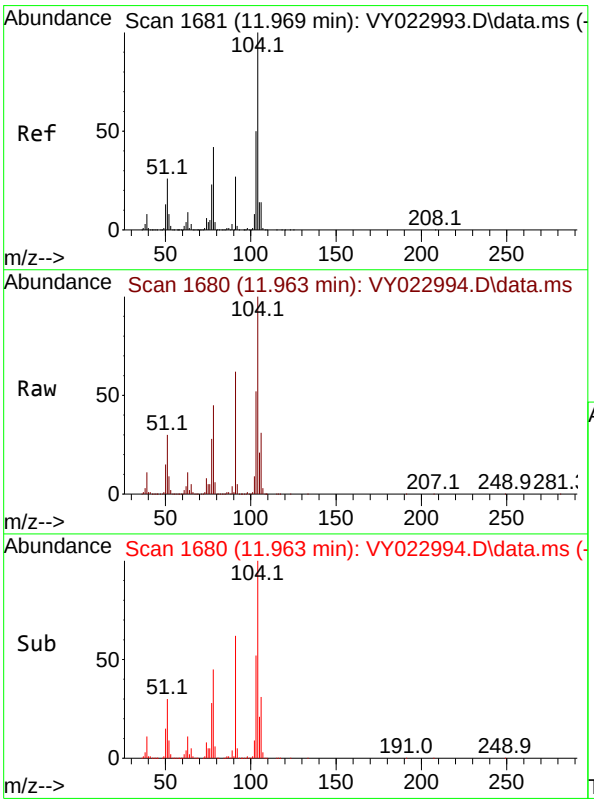
Tgt Ion:106 Resp: 102940

Ion	Ratio	Lower	Upper
106	100		
91	209.6	106.3	318.8

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

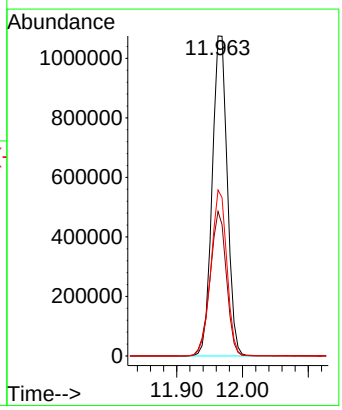


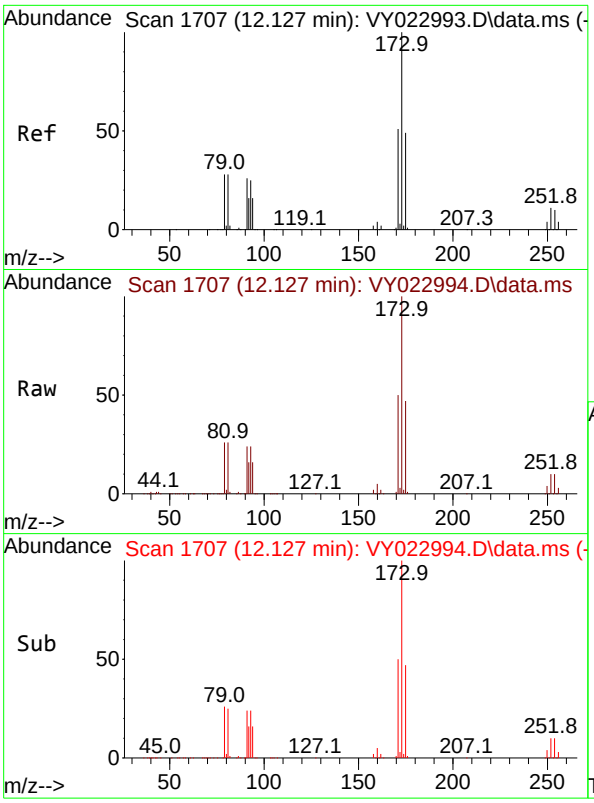


#70
Styrene
Concen: 104.018 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:104 Resp: 1721270

Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.6
103	54.8	43.7	65.5

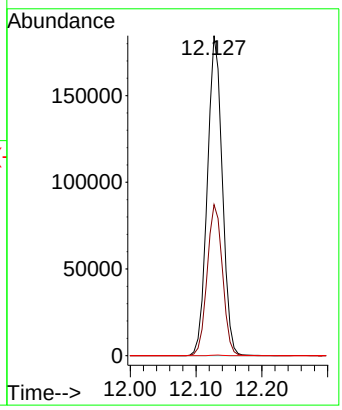




#71
Bromoform
Concen: 105.125 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:173 Resp: 29144

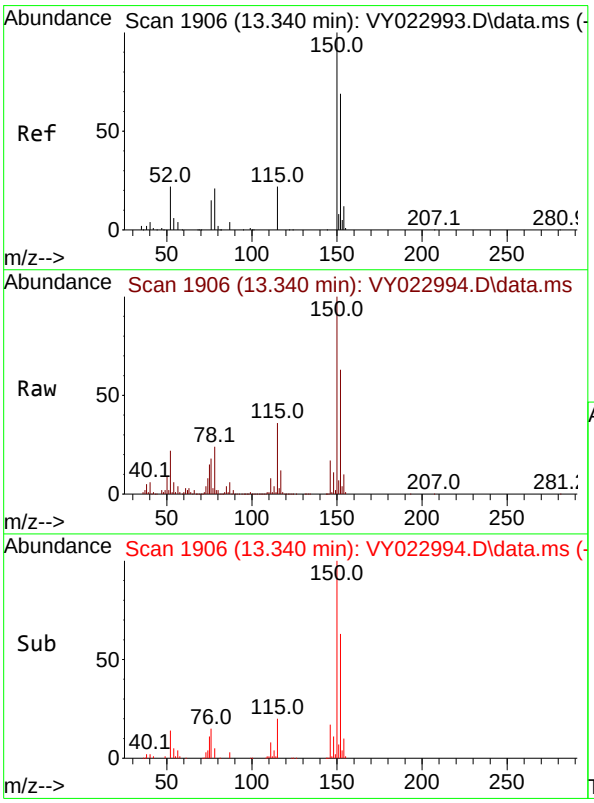
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

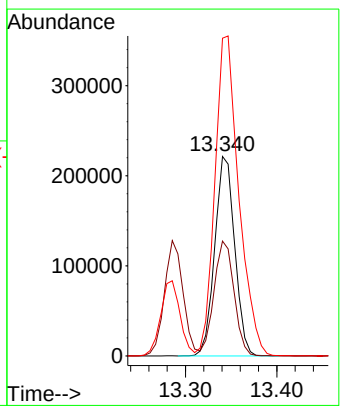
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

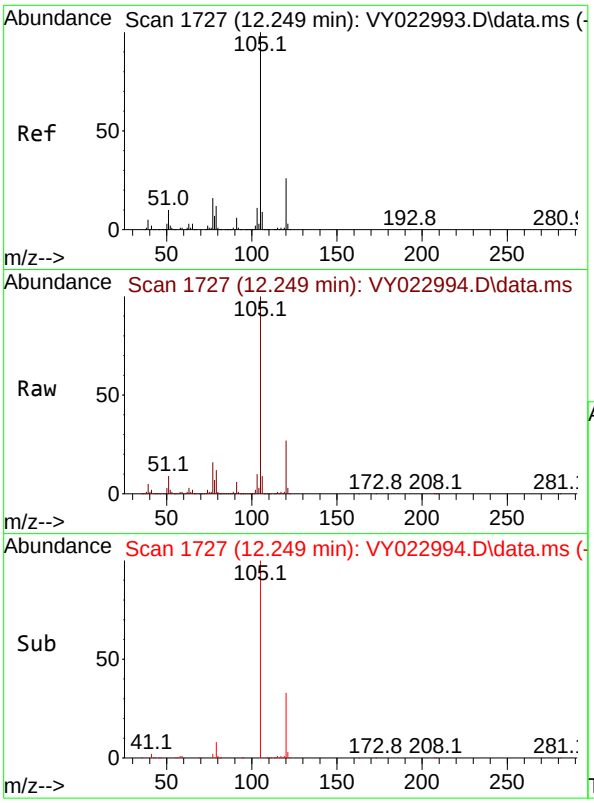


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:152 Resp: 336381

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	192.2	0.0	350.0

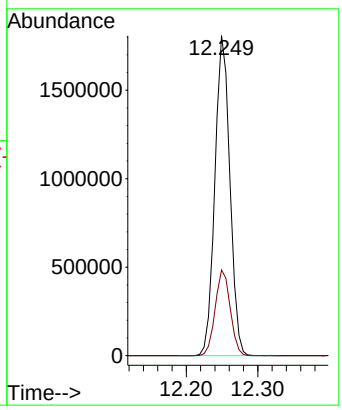




#73
Isopropylbenzene
Concen: 92.342 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:105 Resp: 263351

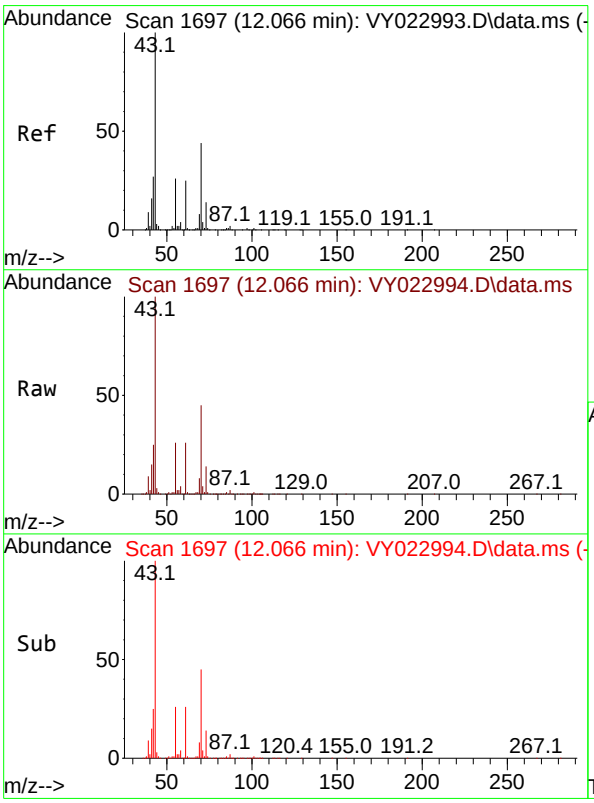
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

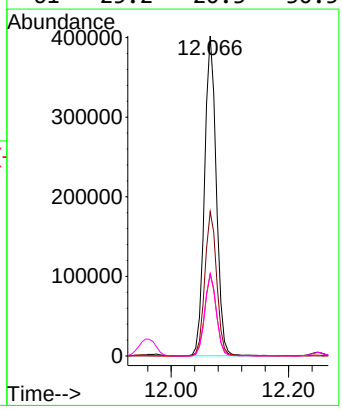
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

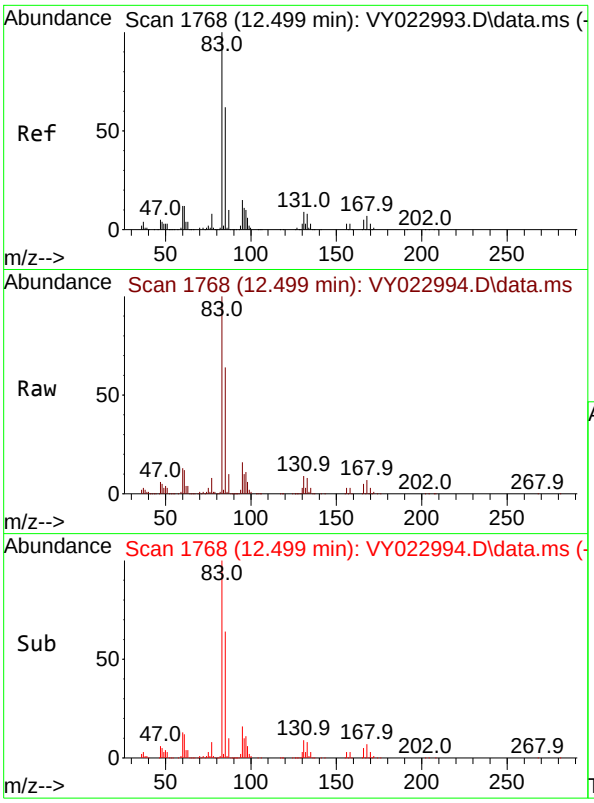


#74
N-amyl acetate
Concen: 104.113 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 559798

Ion	Ratio	Lower	Upper
43	100		
70	45.4	36.2	54.2
55	25.6	20.9	31.3
61	25.2	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 94.863 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

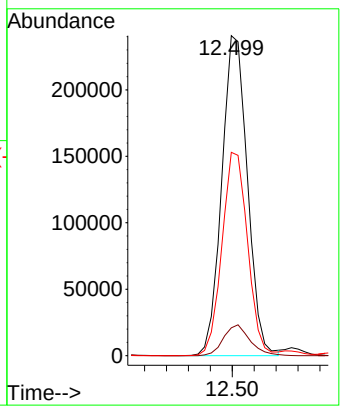
Tgt Ion: 83 Resp: 39150

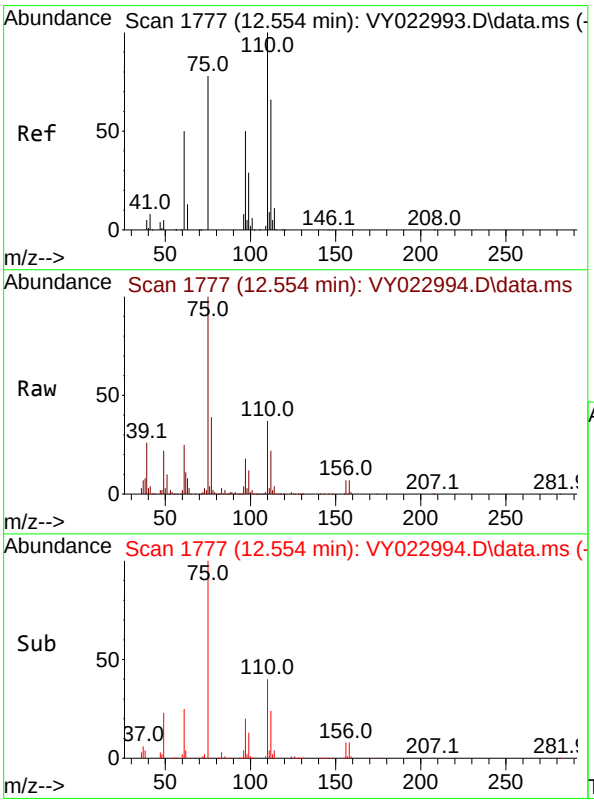
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.5	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

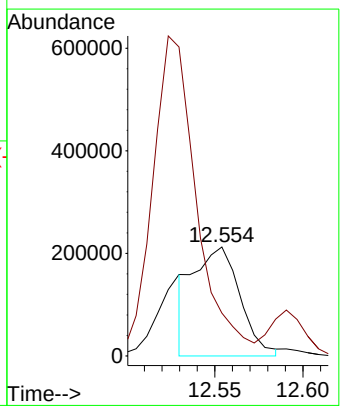


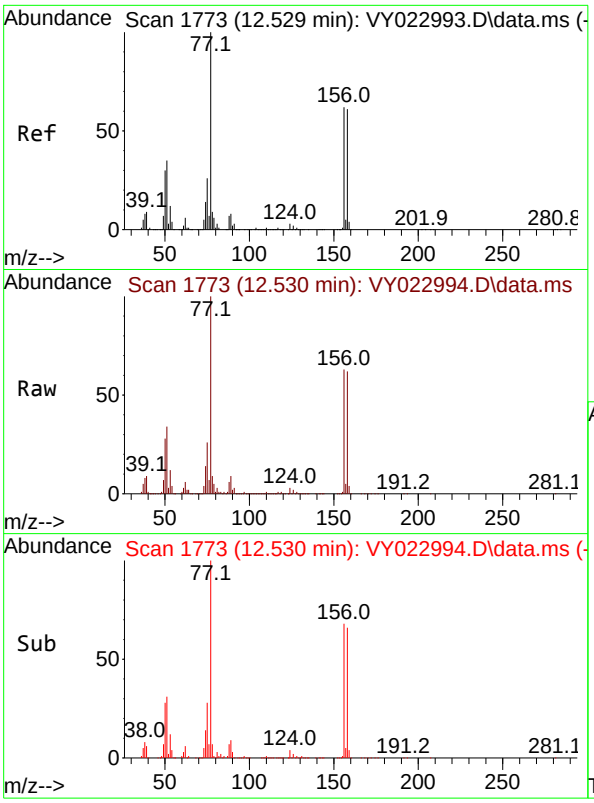


#76
1,2,3-Trichloropropane
Concen: 92.242 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 390512

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

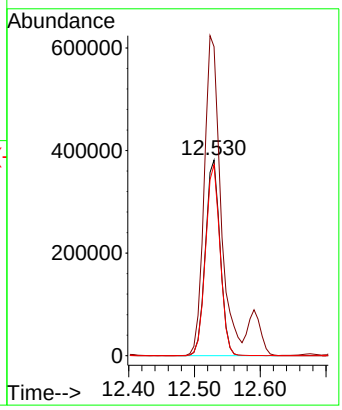




#77
Bromobenzene
Concen: 95.609 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:156 Resp: 59138

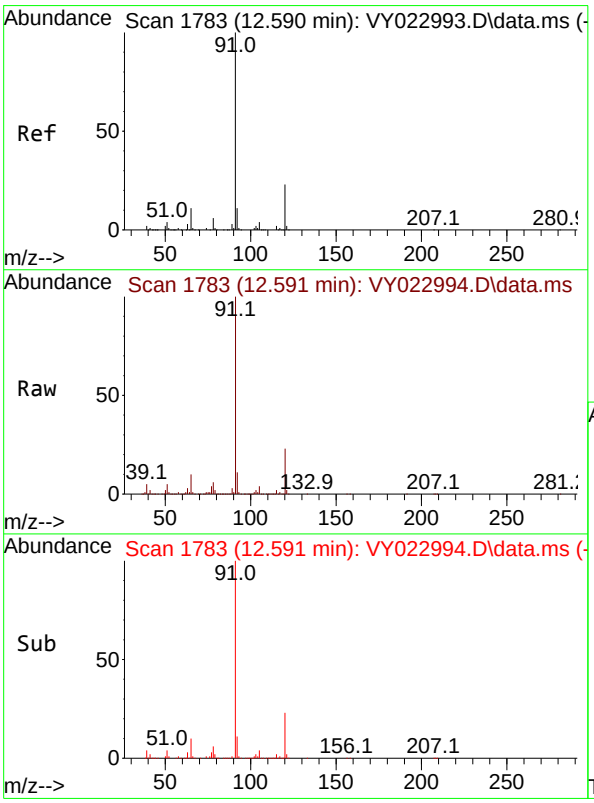
Ion	Ratio	Lower	Upper
156	100		
77	183.5	92.0	276.1
158	96.9	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

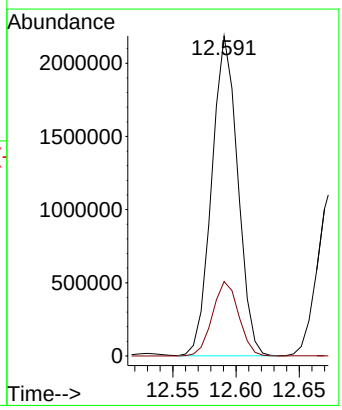
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

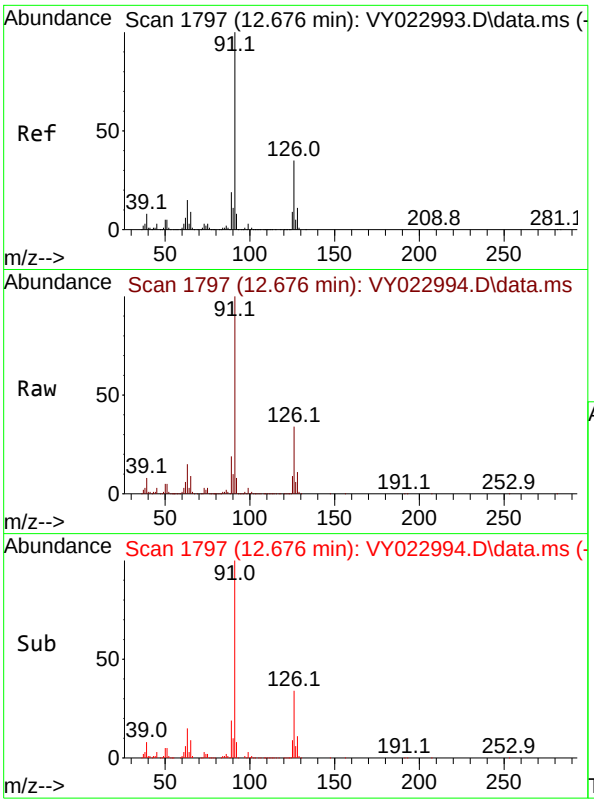


#78
n-propylbenzene
Concen: 92.131 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 91 Resp: 3128958

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.3	33.8





#79
2-Chlorotoluene
Concen: 93.601 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

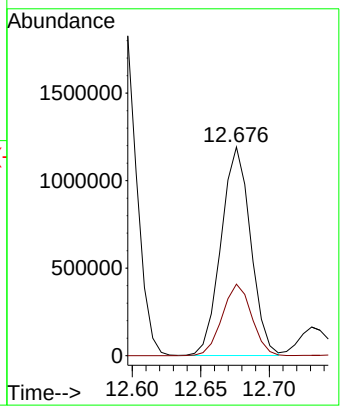
Tgt Ion: 91 Resp: 178784

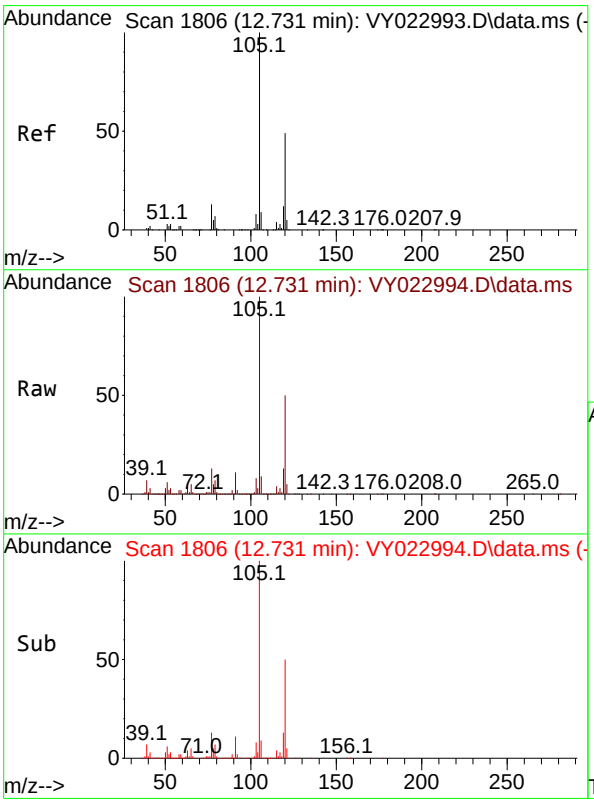
Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

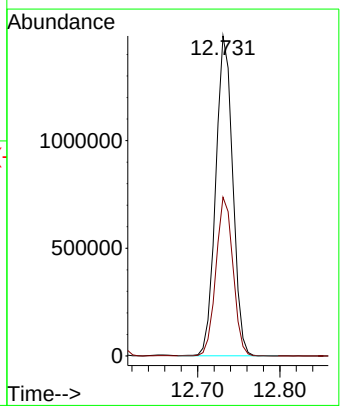


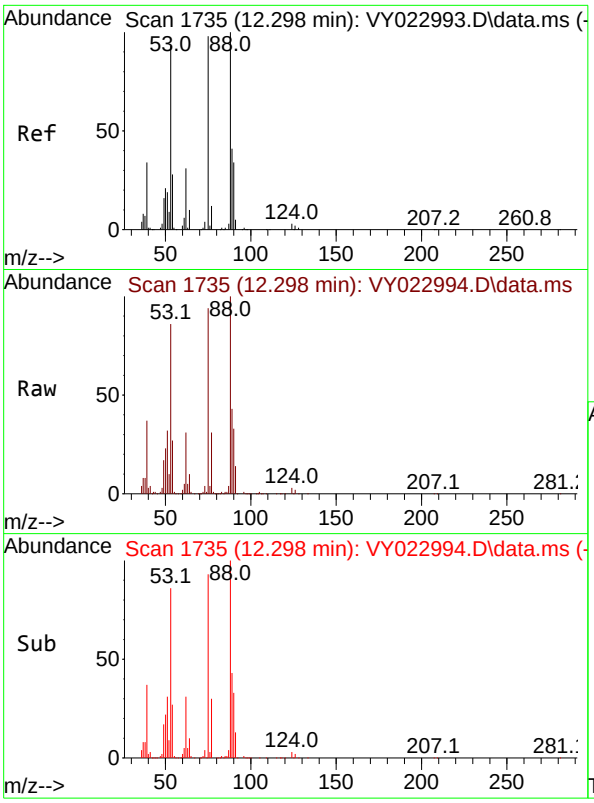


#80
1,3,5-Trimethylbenzene
Concen: 94.884 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:105 Resp: 2134216

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.6	73.8





#81
trans-1,4-Dichloro-2-butene
Concen: 97.286 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

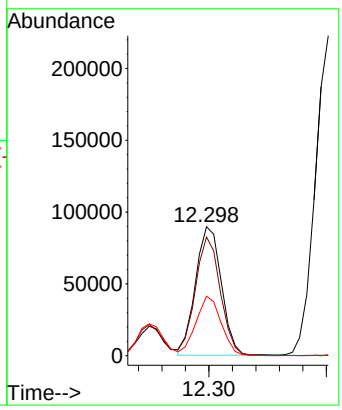
Tgt Ion: 75 Resp: 13691

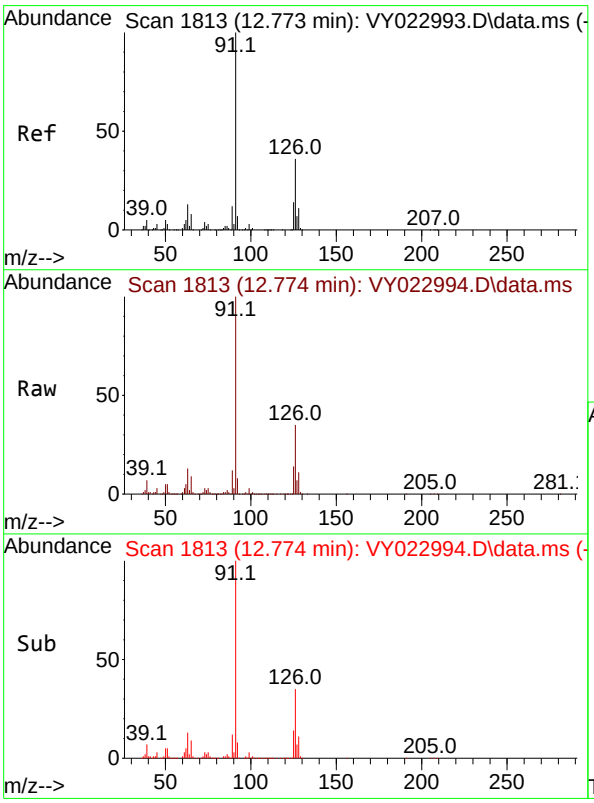
Ion	Ratio	Lower	Upper
75	100		
53	89.4	76.1	114.1
89	45.3	36.1	54.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

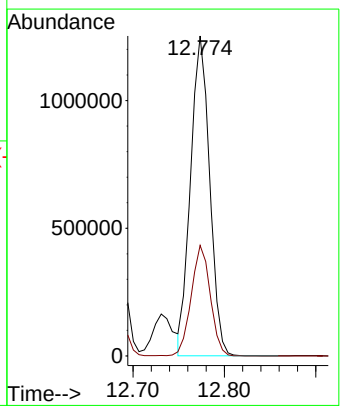


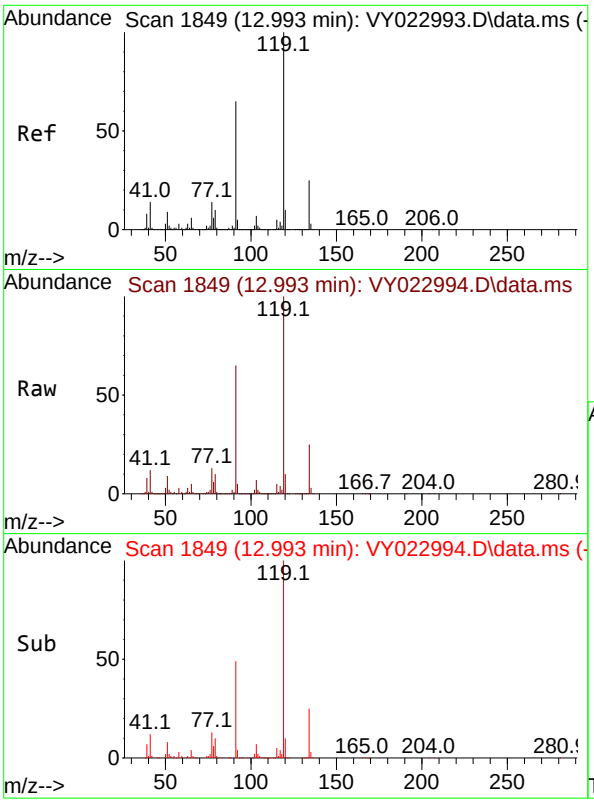


#82
4-Chlorotoluene
Concen: 94.446 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 91 Resp: 1819454

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.2	51.5

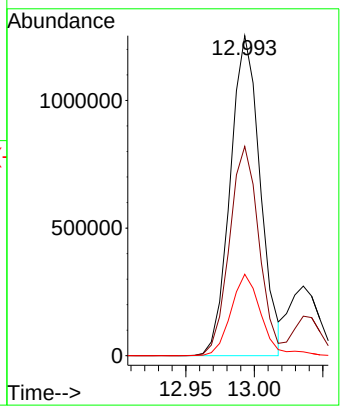




#83
tert-Butylbenzene
Concen: 93.818 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:119 Resp: 190617

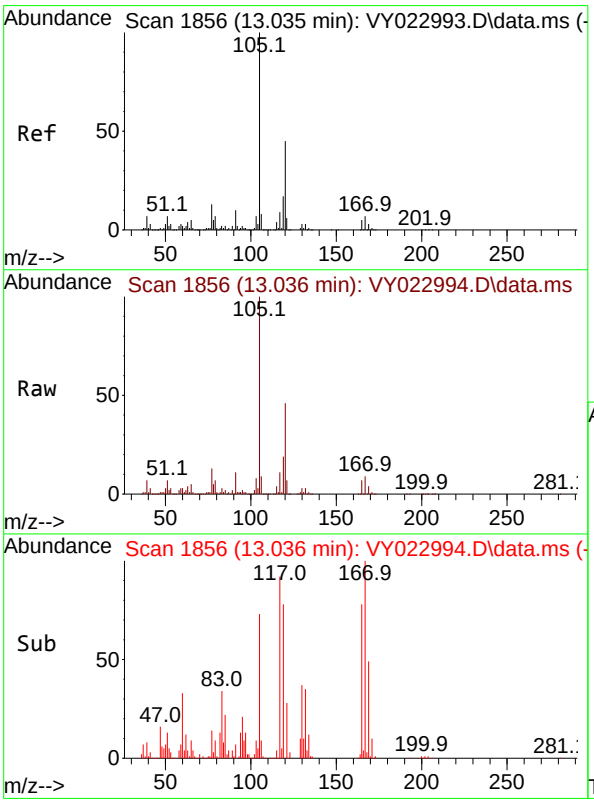
Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.0	96.2
134	25.8	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

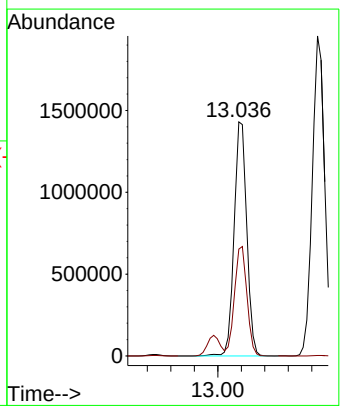
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

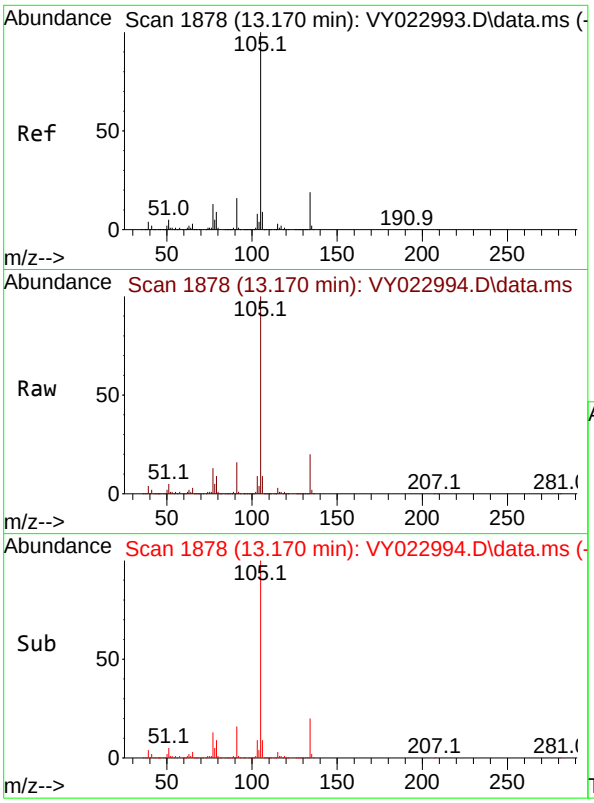


#84
1,2,4-Trimethylbenzene
Concen: 96.506 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:105 Resp: 2136779

Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8

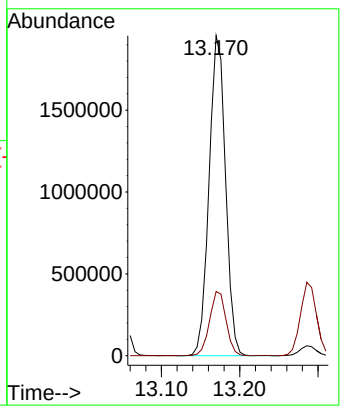




#85
sec-Butylbenzene
Concen: 93.457 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:105 Resp: 284555

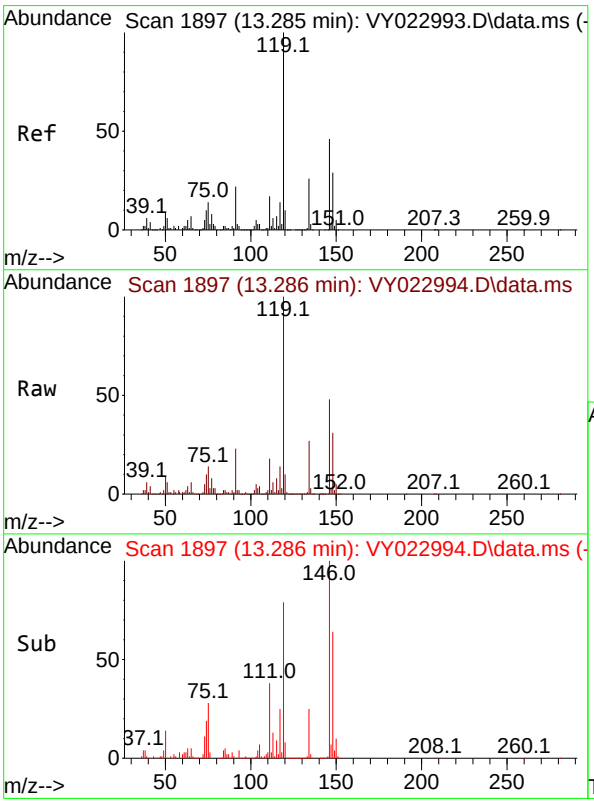
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

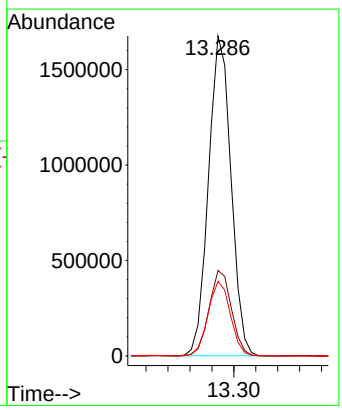
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

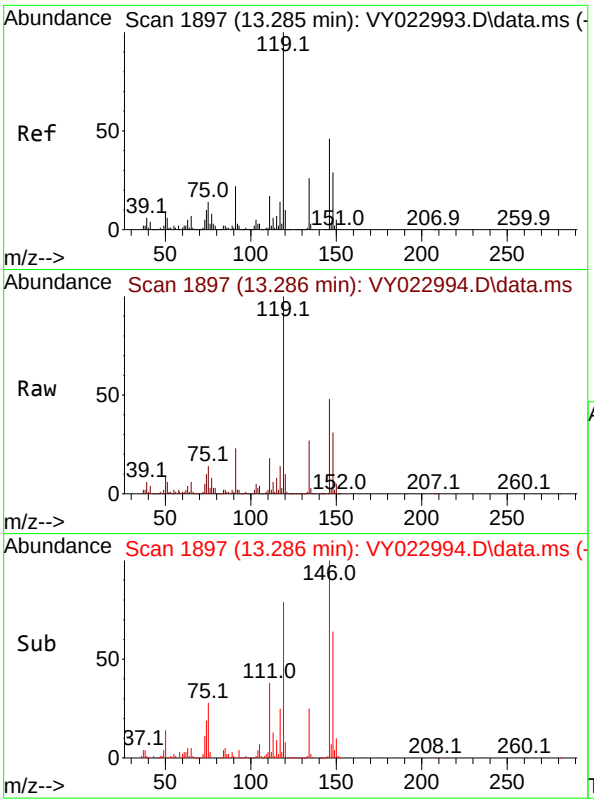


#86
p-Isopropyltoluene
Concen: 96.785 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:119 Resp: 2393335

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.1	39.1
91	23.1	11.4	34.1





#87
1,3-Dichlorobenzene
Concen: 96.105 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

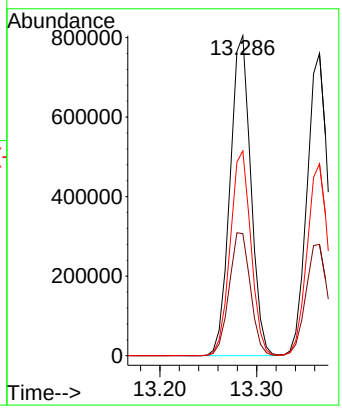
Tgt Ion:146 Resp: 119966

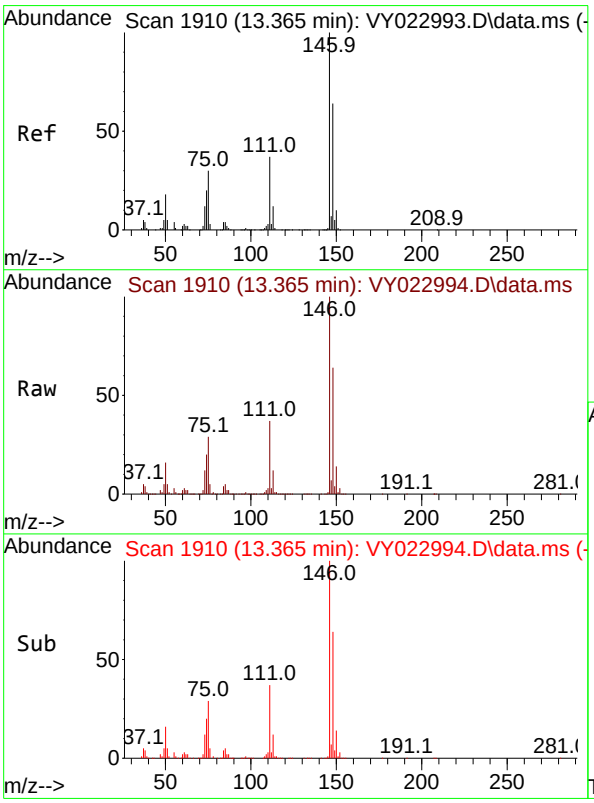
Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.8	59.3
148	63.8	31.6	94.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

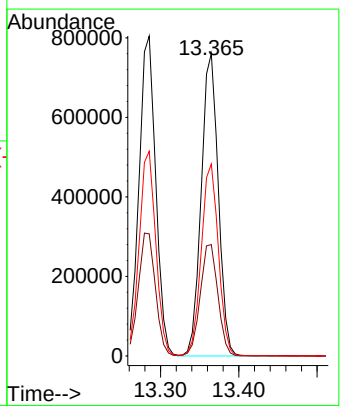


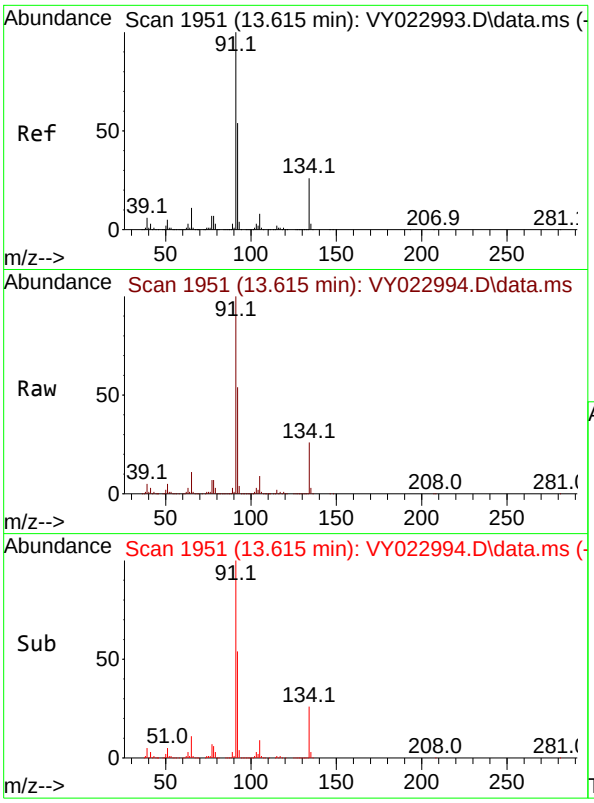


#88
1,4-Dichlorobenzene
Concen: 95.021 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:146 Resp: 1147484

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.2	57.6
148	63.7	31.9	95.5





#89
n-Butylbenzene
Concen: 96.545 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

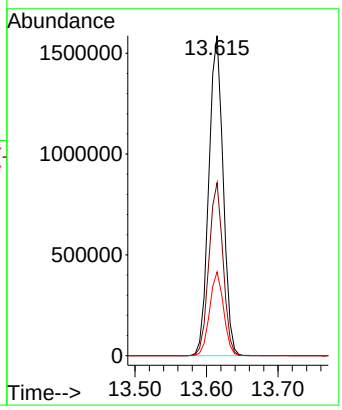
Tgt Ion: 91 Resp: 220299

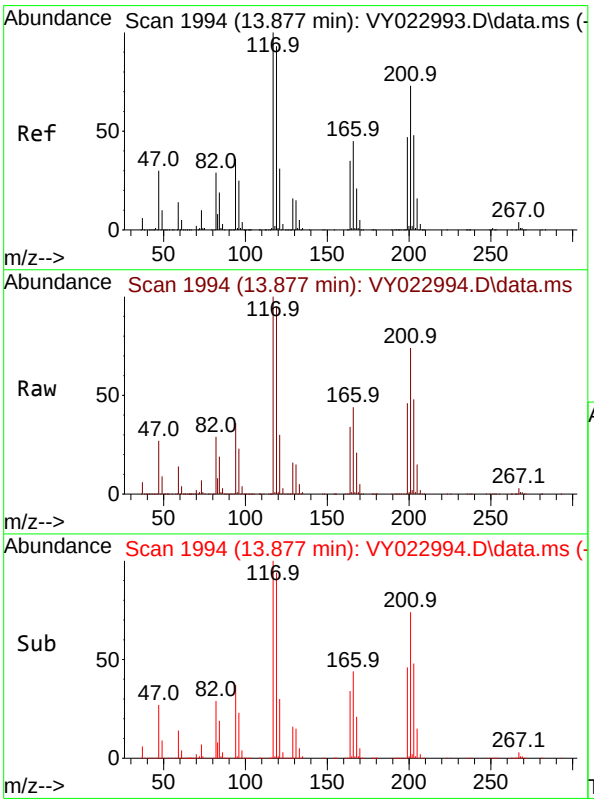
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.6	12.6	37.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

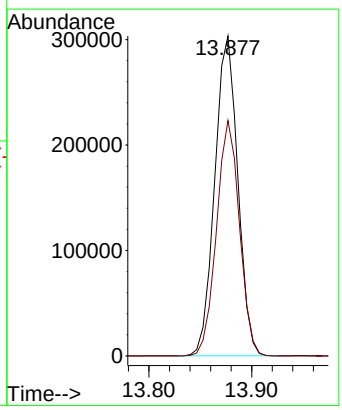


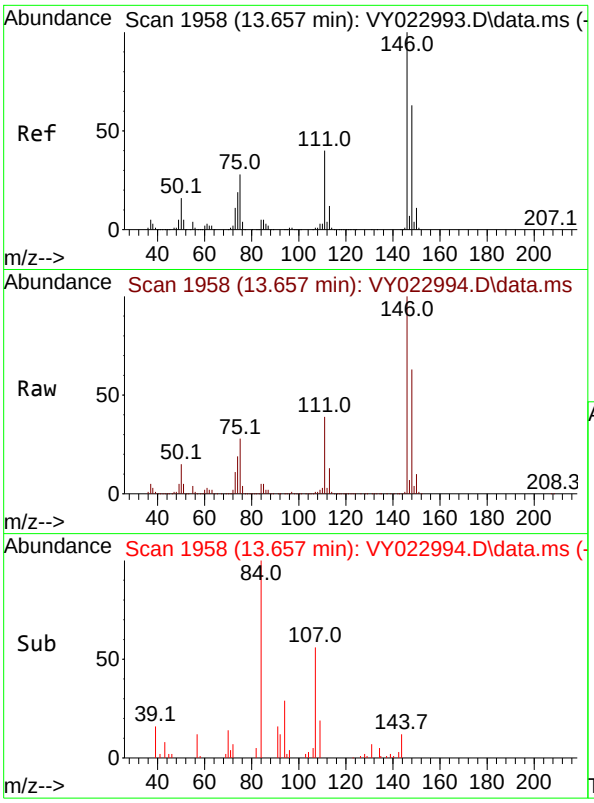


#90
Hexachloroethane
Concen: 92.105 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:117 Resp: 471548

Ion	Ratio	Lower	Upper
117	100		
201	73.3	36.1	108.5

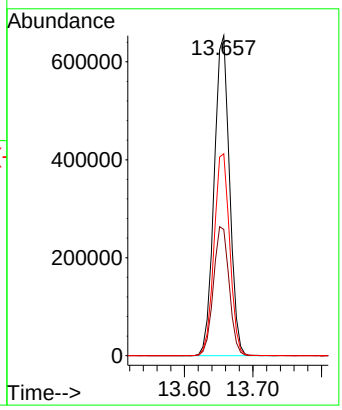




#91
1,2-Dichlorobenzene
Concen: 96.328 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:146 Resp: 101426

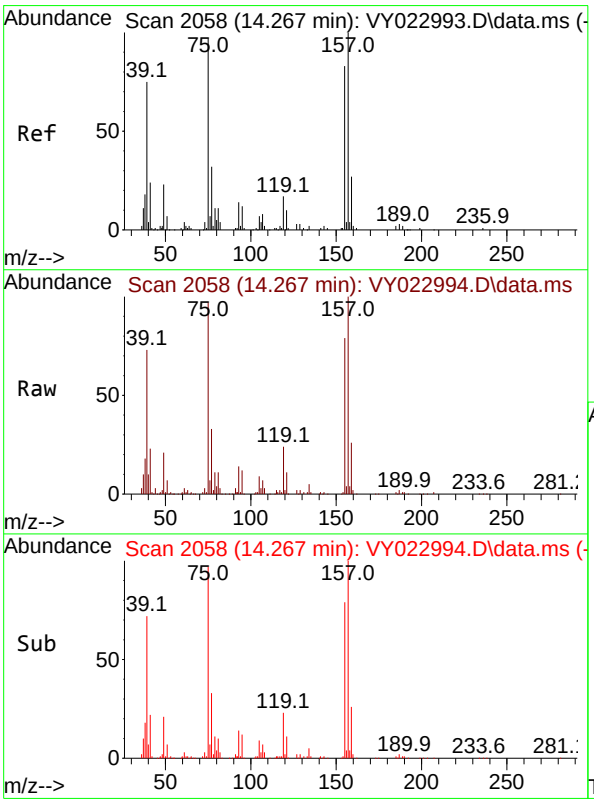
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.3	61.0
148	64.3	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

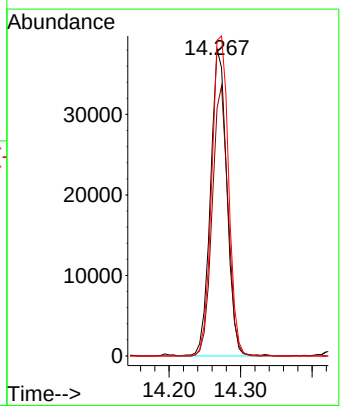
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

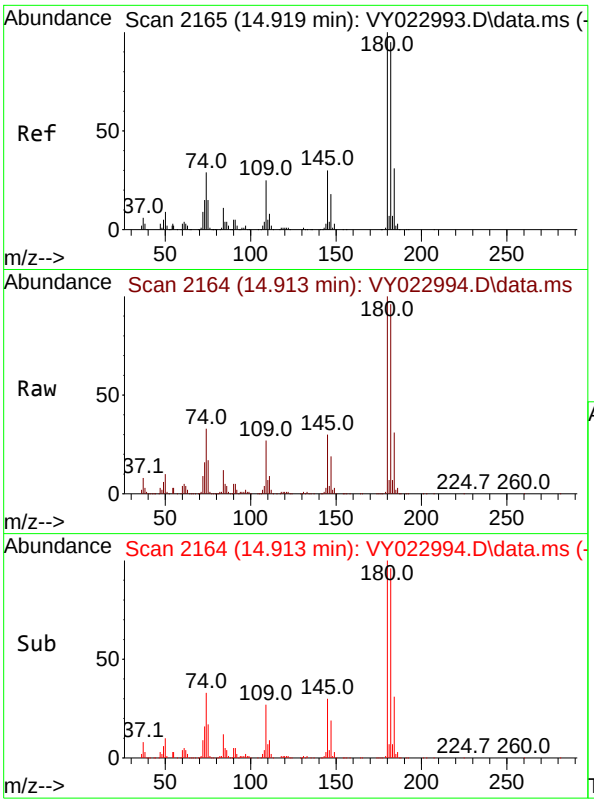


#92
1,2-Dibromo-3-Chloropropane
Concen: 98.636 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 60444

Ion	Ratio	Lower	Upper
75	100		
155	84.9	42.8	128.3
157	107.4	54.3	162.9

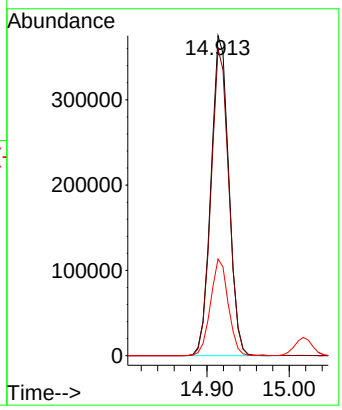




#93
1,2,4-Trichlorobenzene
Concen: 101.574 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:180 Resp: 56375

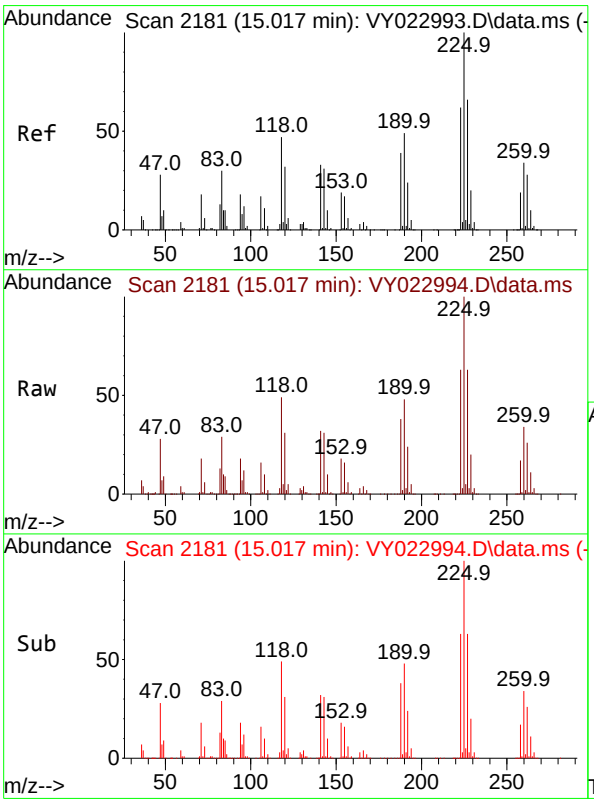
Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.5
145	29.9	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

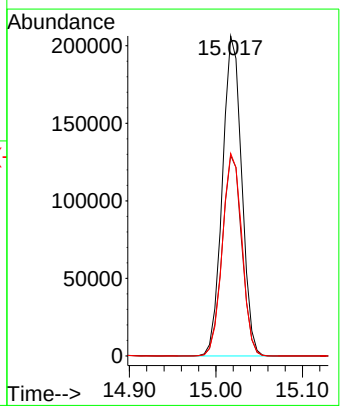
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

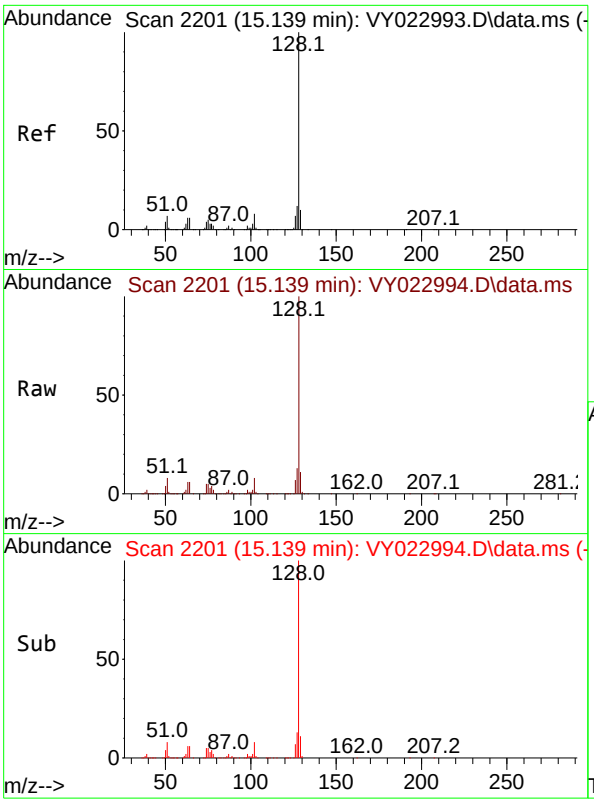


#94
Hexachlorobutadiene
Concen: 91.031 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:225 Resp: 318528

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.4	94.0
227	64.2	32.1	96.5

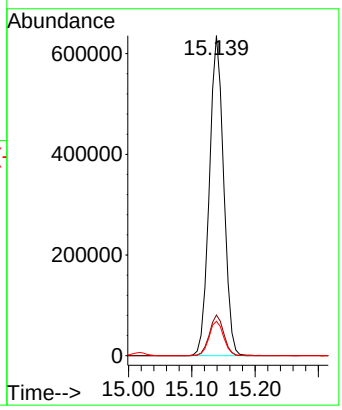




#95
Naphthalene
Concen: 112.148 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:128 Resp: 99833

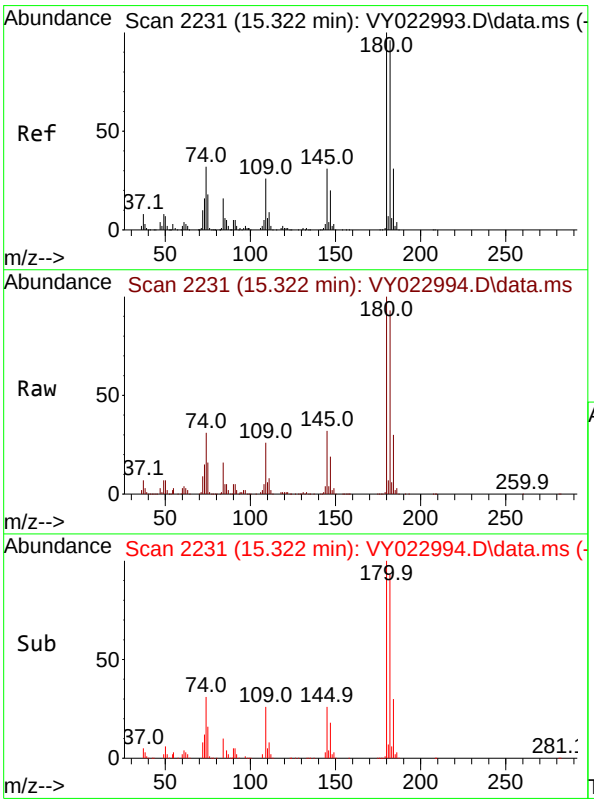
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

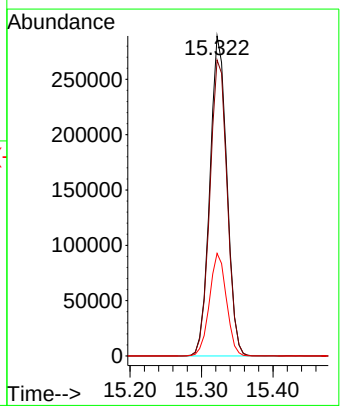
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 104.109 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:180 Resp: 477101

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	142.0
145	31.9	15.8	47.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	507576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	818041	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	713048	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	341818	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	759333	147.778	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 295.560%#			
35) Dibromofluoromethane	7.634	113	769587	148.308	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 296.620%#			
50) Toluene-d8	10.103	98	3030762	147.281	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 294.560%#			
62) 4-Bromofluorobenzene	12.401	95	996296	153.805	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 307.600%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	554056	128.556	ug/l	99
3) Chloromethane	2.068	50	1009184	137.710	ug/l	99
4) Vinyl Chloride	2.208	62	1262771	136.010	ug/l	99
5) Bromomethane	2.586	94	965846	144.140	ug/l	99
6) Chloroethane	2.732	64	863223	139.213	ug/l	96
7) Trichlorofluoromethane	3.056	101	1472609	136.637	ug/l	98
8) Diethyl Ether	3.458	74	405153	143.632	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	757731	133.835	ug/l	99
10) Methyl Iodide	4.000	142	917876	156.057	ug/l	99
11) Tert butyl alcohol	4.866	59	250970	803.224	ug/l	99
12) 1,1-Dichloroethene	3.787	96	755004	139.985	ug/l	98
13) Acrolein	3.653	56	64898	460.788	ug/l	95
14) Allyl chloride	4.385	41	1226641	149.283	ug/l	99
15) Acrylonitrile	5.055	53	849674	795.253	ug/l	99
16) Acetone	3.872	43	612358	657.446	ug/l	100
17) Carbon Disulfide	4.104	76	2245565	137.375	ug/l	99
18) Methyl Acetate	4.385	43	554000	175.686	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	2069795	159.995	ug/l	100
20) Methylene Chloride	4.616	84	875539	150.366	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	874496	145.658	ug/l	99
22) Diisopropyl ether	6.018	45	2698023	154.774	ug/l	99
23) Vinyl Acetate	5.957	43	7048997	802.533	ug/l	100
24) 1,1-Dichloroethane	5.915	63	1599724	146.106	ug/l	99
25) 2-Butanone	6.896	43	1064091	796.353	ug/l	100
26) 2,2-Dichloropropane	6.884	77	1381568	143.975	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	1045626	151.118	ug/l	100
28) Bromochloromethane	7.244	49	628281	147.946	ug/l	99
29) Tetrahydrofuran	7.262	42	706173	834.735	ug/l	98
30) Chloroform	7.421	83	1598800	144.750	ug/l	99
31) Cyclohexane	7.701	56	1397744	136.623	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	1442504	143.937	ug/l	99
36) 1,1-Dichloropropene	7.835	75	1177815	144.097	ug/l	99
37) Ethyl Acetate	6.982	43	463547	152.699	ug/l	99
38) Carbon Tetrachloride	7.817	117	1277517	143.863	ug/l	99
39) Methylcyclohexane	9.109	83	1558807	147.341	ug/l	99
40) Benzene	8.079	78	3629855	147.493	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	262546	163.855	ug/l		98
42) 1,2-Dichloroethane	8.158	62	921582	150.515	ug/l		99
43) Isopropyl Acetate	8.195	43	995083	165.022	ug/l	#	87
44) Trichloroethene	8.865	130	899565	142.310	ug/l		99
45) 1,2-Dichloropropane	9.140	63	849889	147.880	ug/l		99
46) Dibromomethane	9.231	93	457164	153.894	ug/l		99
47) Bromodichloromethane	9.420	83	1229904	149.779	ug/l		100
48) Methyl methacrylate	9.219	41	497091	170.750	ug/l		99
49) 1,4-Dioxane	9.225	88	105601	3372.404	ug/l		93
51) 4-Methyl-2-Pentanone	9.993	43	2619935	856.011	ug/l		98
52) Toluene	10.170	92	2355369	153.936	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	1145266	162.478	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	1347461	158.600	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	609925	156.212	ug/l		98
56) Ethyl methacrylate	10.438	69	862573	176.974	ug/l		98
57) 1,3-Dichloropropane	10.713	76	1054881	156.398	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	2122696	889.686	ug/l		100
59) 2-Hexanone	10.755	43	1763492	876.571	ug/l		97
60) Dibromochloromethane	10.908	129	812760	158.968	ug/l		100
61) 1,2-Dibromoethane	11.011	107	563050	158.800	ug/l		99
64) Tetrachloroethene	10.646	164	900940	123.614	ug/l		98
65) Chlorobenzene	11.438	112	2486956	147.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	869061	151.433	ug/l		100
67) Ethyl Benzene	11.517	91	4532458	151.974	ug/l		97
68) m/p-Xylenes	11.627	106	3508814	306.732	ug/l		97
69) o-Xylene	11.950	106	1670304	157.335	ug/l		98
70) Styrene	11.969	104	2815907	161.930	ug/l		99
71) Bromoform	12.127	173	482482	165.606	ug/l	#	99
73) Isopropylbenzene	12.249	105	4313254	148.835	ug/l		99
74) N-amyl acetate	12.066	43	927122	169.687	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	687614	163.959	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	648799m	150.814	ug/l		
77) Bromobenzene	12.529	156	955644	152.042	ug/l		99
78) n-propylbenzene	12.590	91	5048339	146.282	ug/l		98
79) 2-Chlorotoluene	12.676	91	2867994	147.762	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	3422881	149.755	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	231166	161.650	ug/l		96
82) 4-Chlorotoluene	12.773	91	2923682	149.351	ug/l		100
83) tert-Butylbenzene	12.993	119	3090226	149.676	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	3425217	152.237	ug/l		99
85) sec-Butylbenzene	13.170	105	4523782	146.212	ug/l		99
86) p-Isopropyltoluene	13.285	119	3849059	153.178	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	1918495	151.247	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	1805316	147.117	ug/l		100
89) n-Butylbenzene	13.615	91	3463857	149.387	ug/l		99
90) Hexachloroethane	13.877	117	755795	145.277	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	1610657	150.536	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	100462	161.332	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	886472	157.179	ug/l		100
94) Hexachlorobutadiene	15.017	225	482621	135.733	ug/l		99
95) Naphthalene	15.139	128	1635113	180.758	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	738766	158.643	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

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

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

ICAL Form

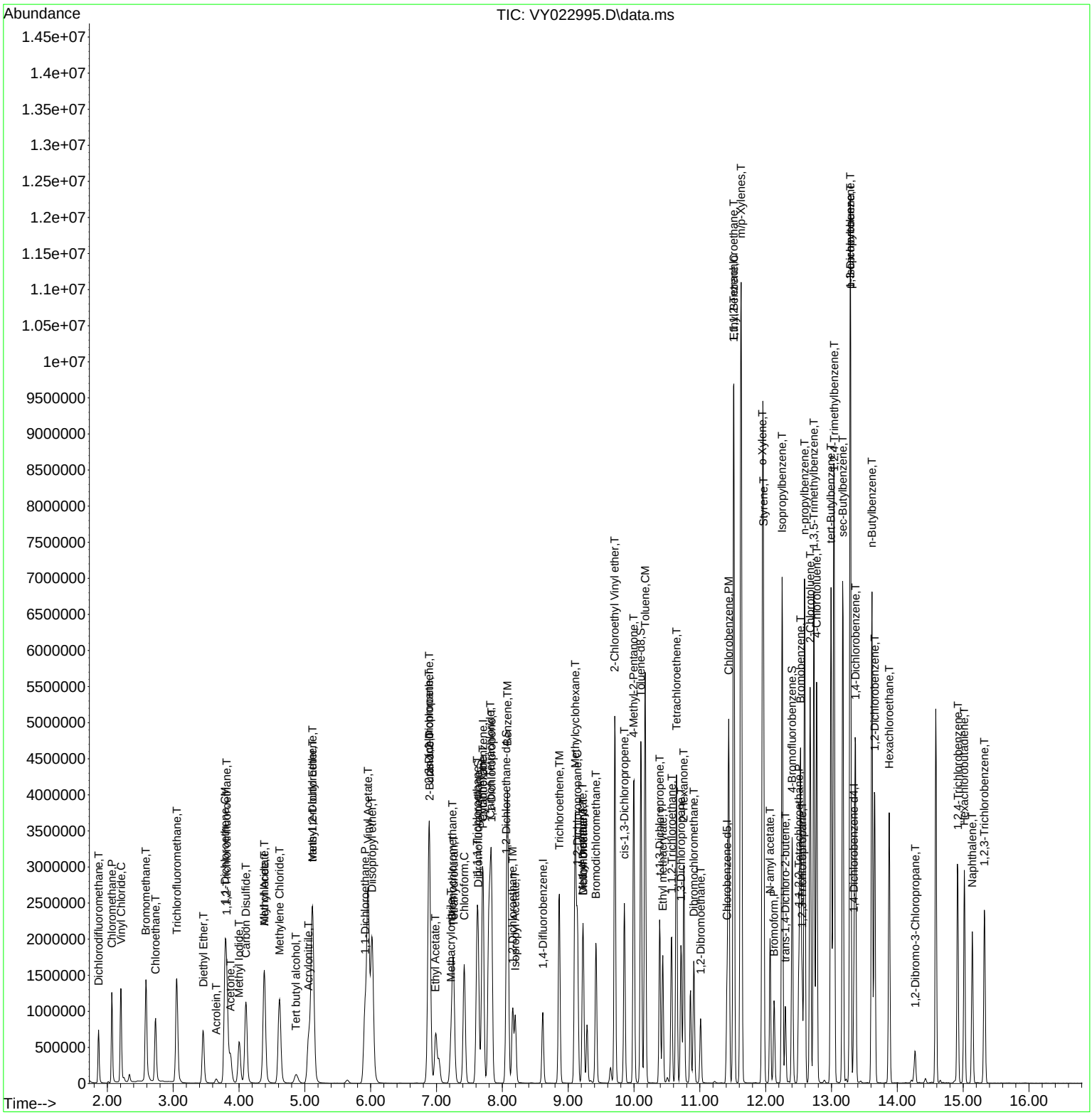
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

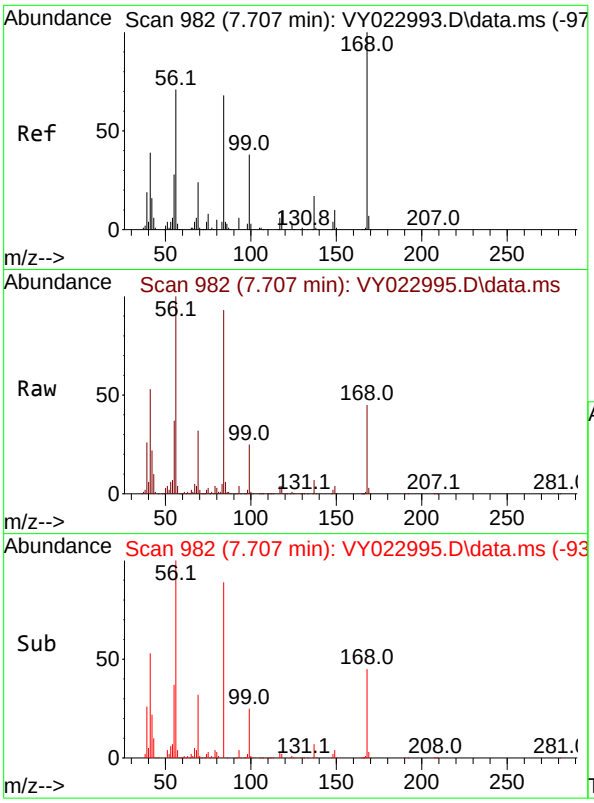
Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

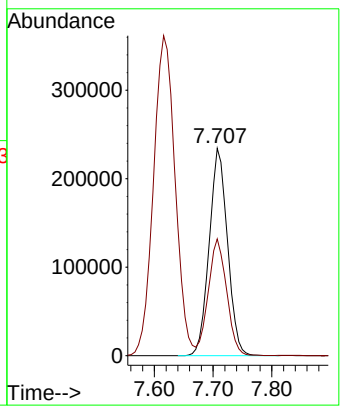




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:168 Resp: 50757

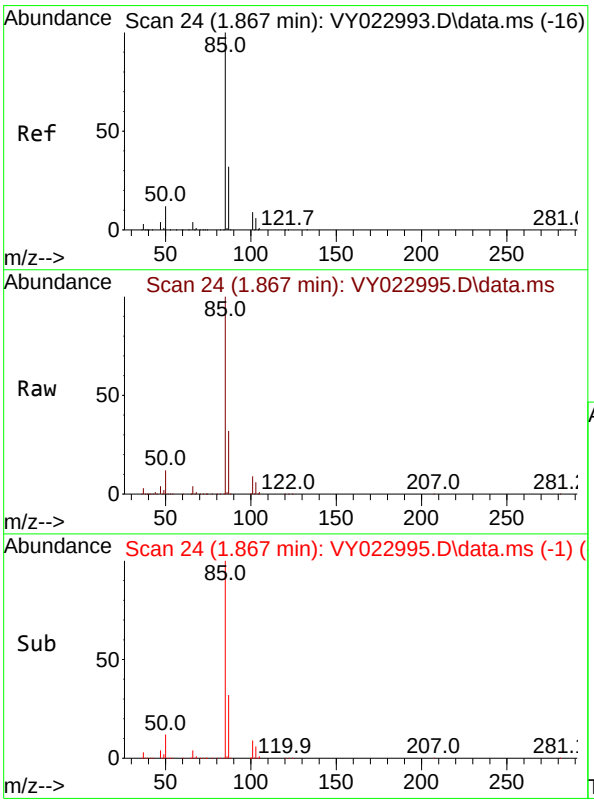
Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

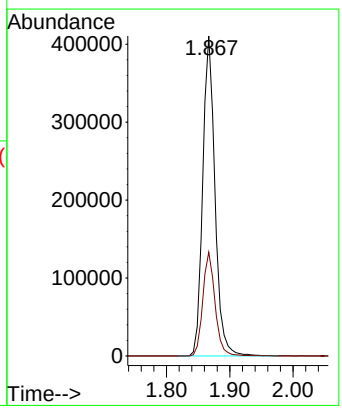
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

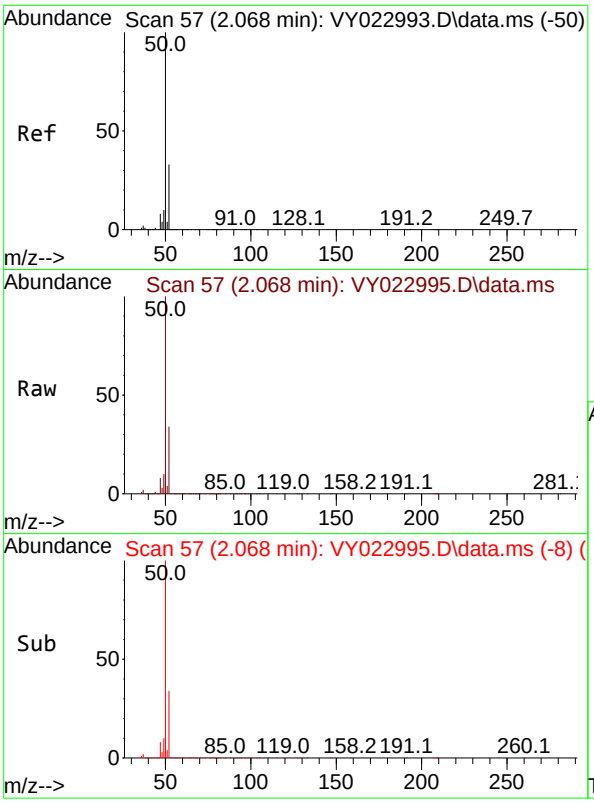


#2
Dichlorodifluoromethane
Concen: 128.556 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 85 Resp: 554056

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	47.9

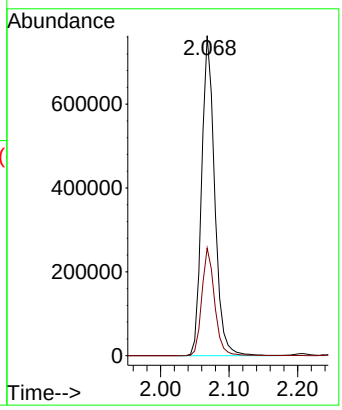




#3
Chloromethane
Concen: 137.710 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 50 Resp: 100918

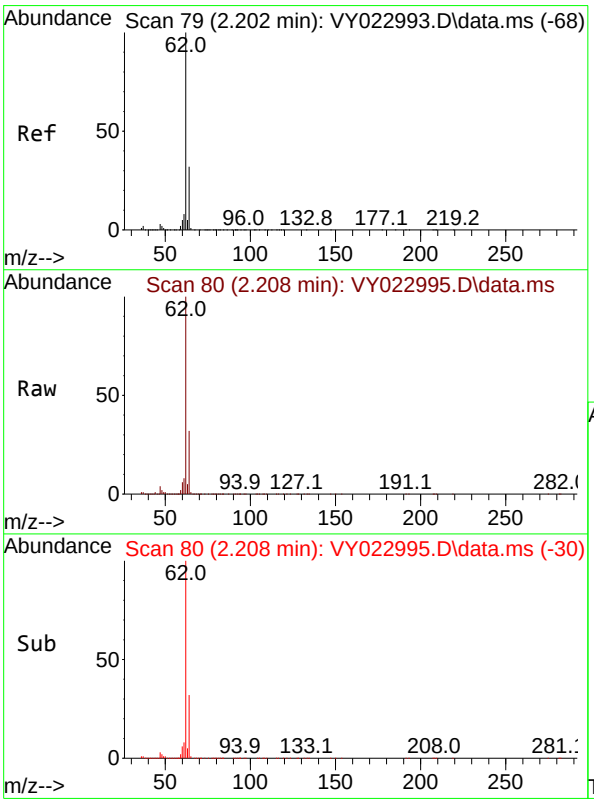
Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

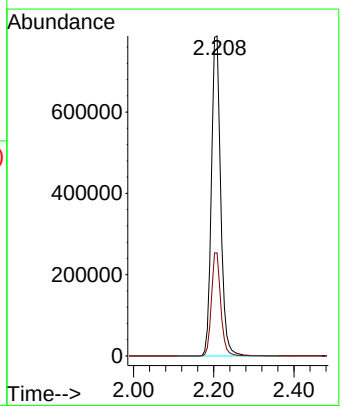
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

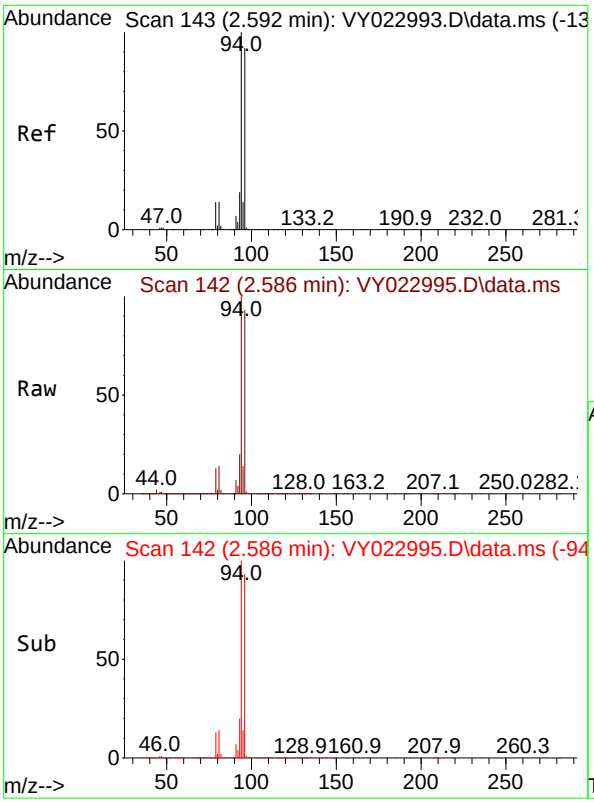


#4
Vinyl Chloride
Concen: 136.010 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 62 Resp: 1262771

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.2	37.8

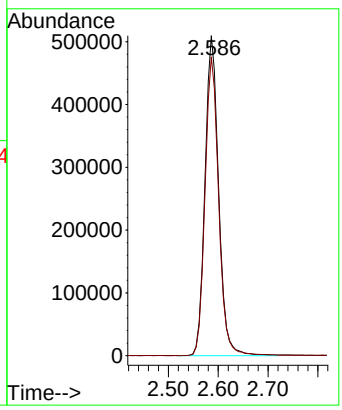




#5
Bromomethane
Concen: 144.140 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 94 Resp: 96584

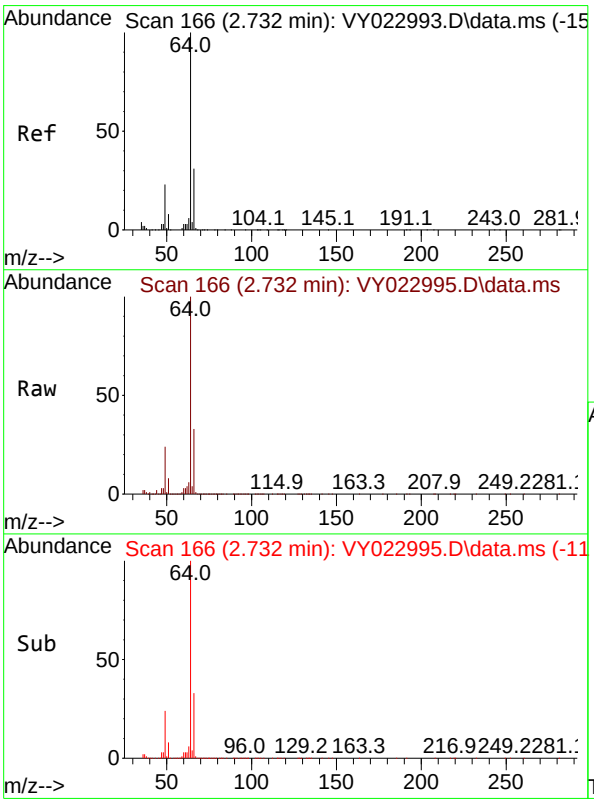
Ion	Ratio	Lower	Upper
94	100		
96	93.4	73.9	110.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

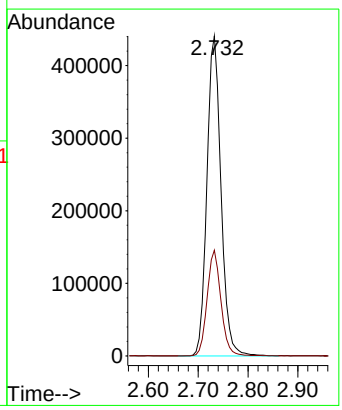
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

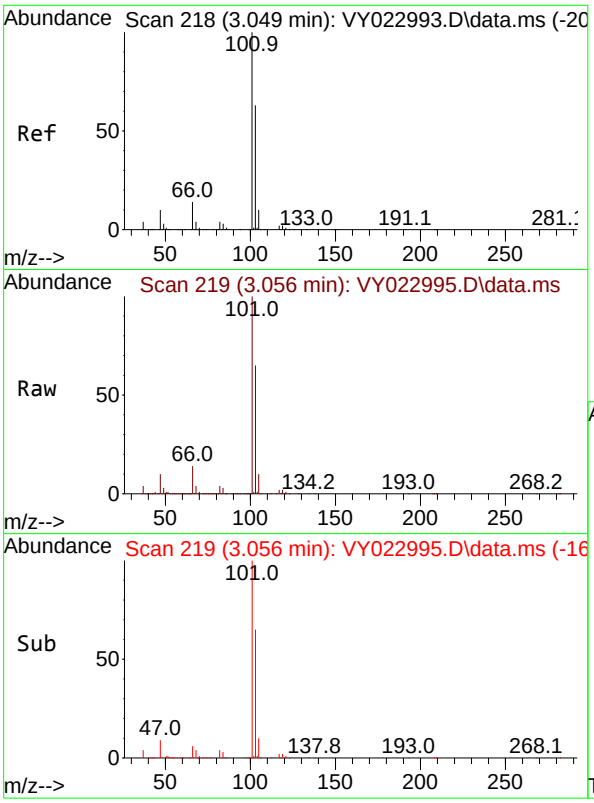


#6
Chloroethane
Concen: 139.213 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 64 Resp: 863223

Ion	Ratio	Lower	Upper
64	100		
66	33.0	24.9	37.3

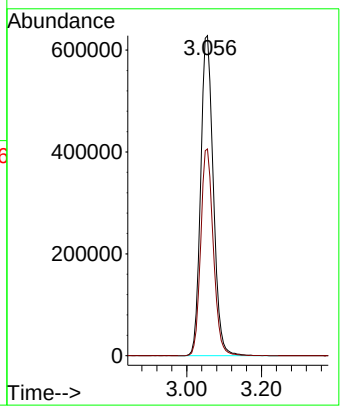




#7
Trichlorofluoromethane
Concen: 136.637 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:101 Resp: 147260

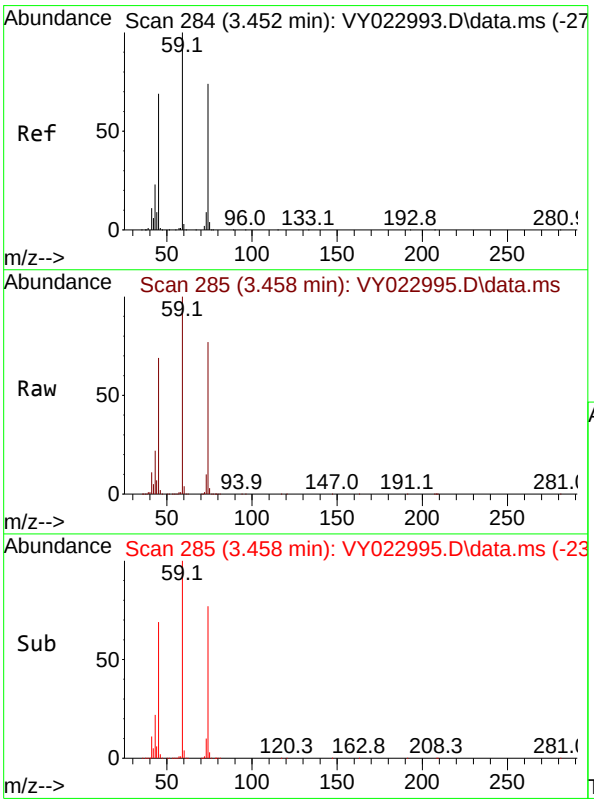
Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

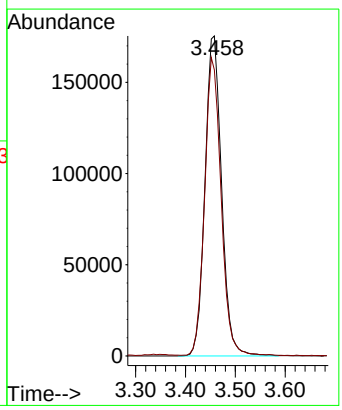
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

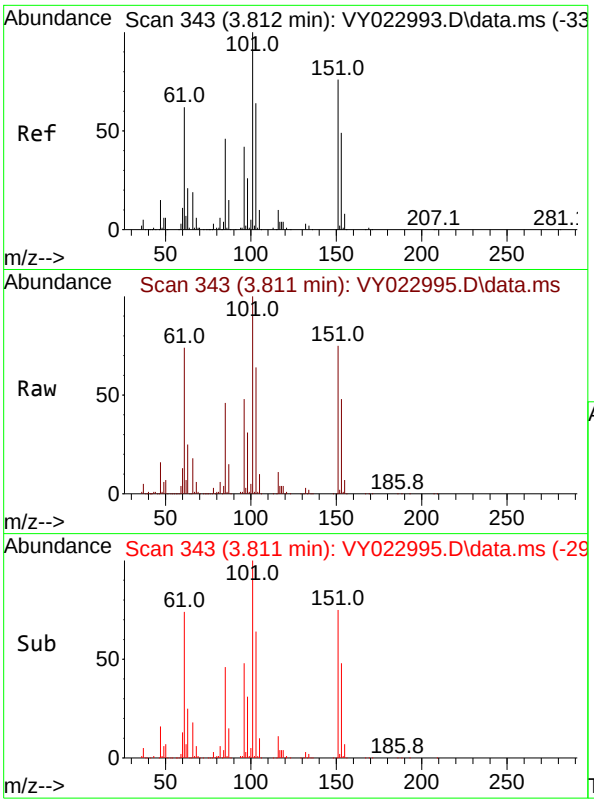


#8
Diethyl Ether
Concen: 143.632 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 74 Resp: 405153

Ion	Ratio	Lower	Upper
74	100		
45	92.8	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 133.835 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

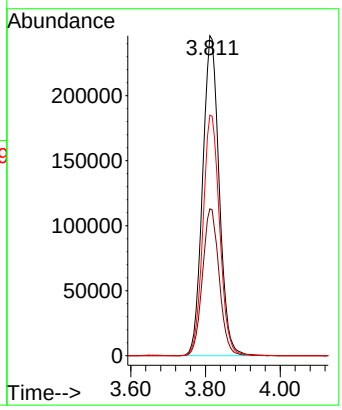
Tgt Ion:101 Resp: 75773

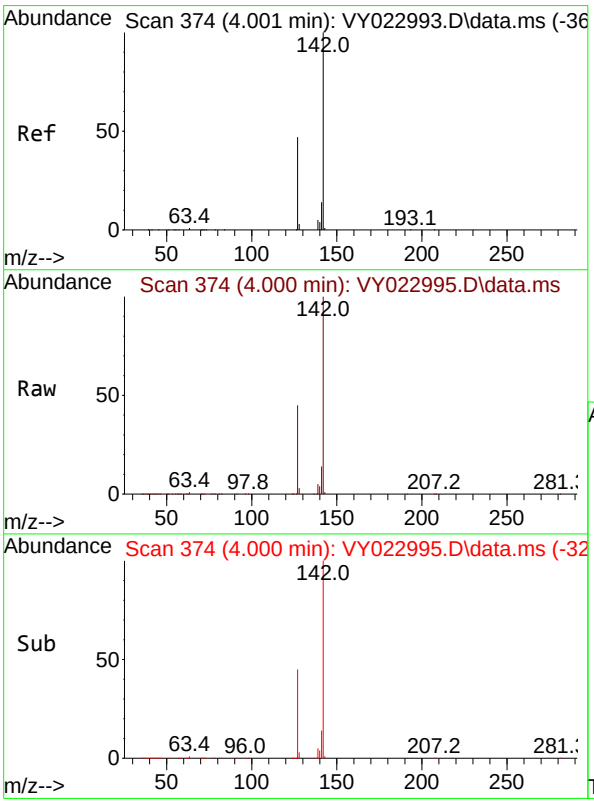
Ion	Ratio	Lower	Upper
101	100		
85	46.1	37.2	55.8
151	75.5	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

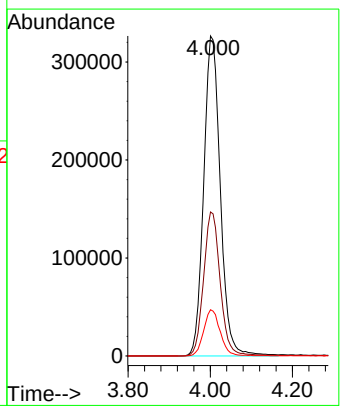


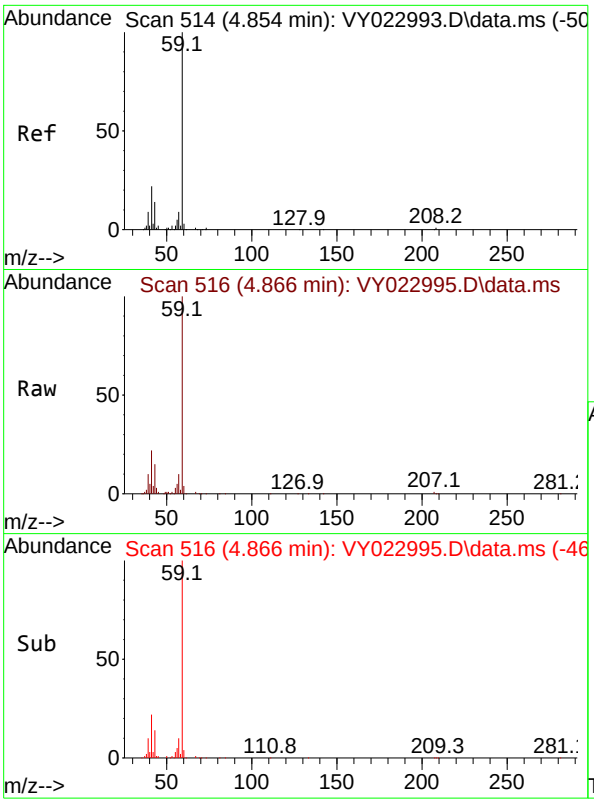


#10
Methyl Iodide
Concen: 156.057 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:142 Resp: 917876

Ion	Ratio	Lower	Upper
142	100		
127	45.1	37.0	55.6
141	14.4	11.4	17.2

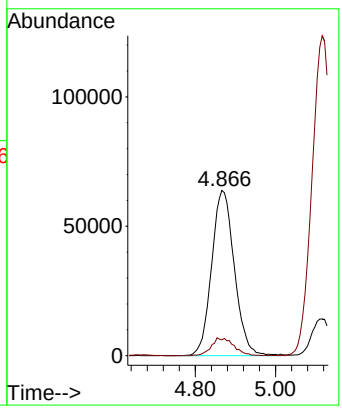




#11
Tert butyl alcohol
Concen: 803.224 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 59 Resp: 25097

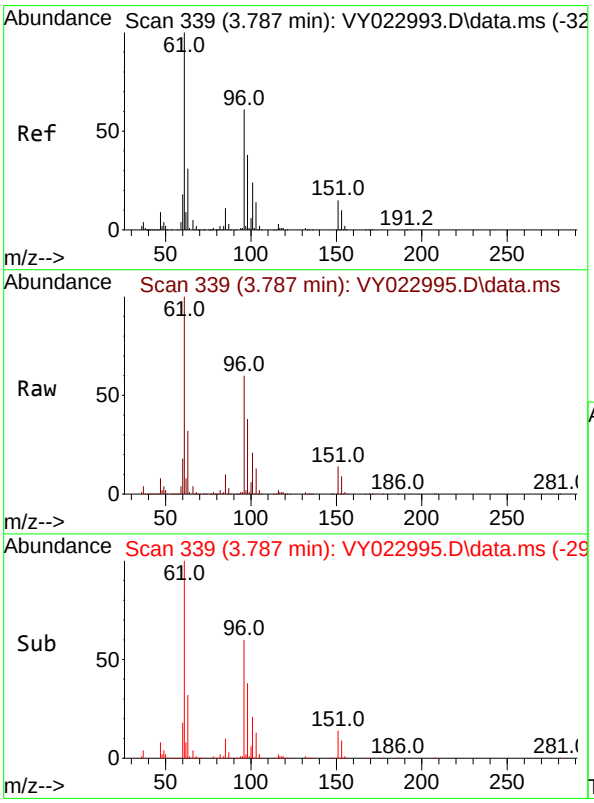
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

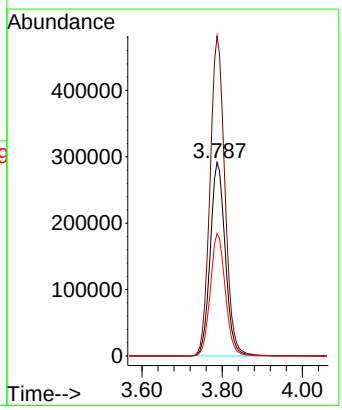
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

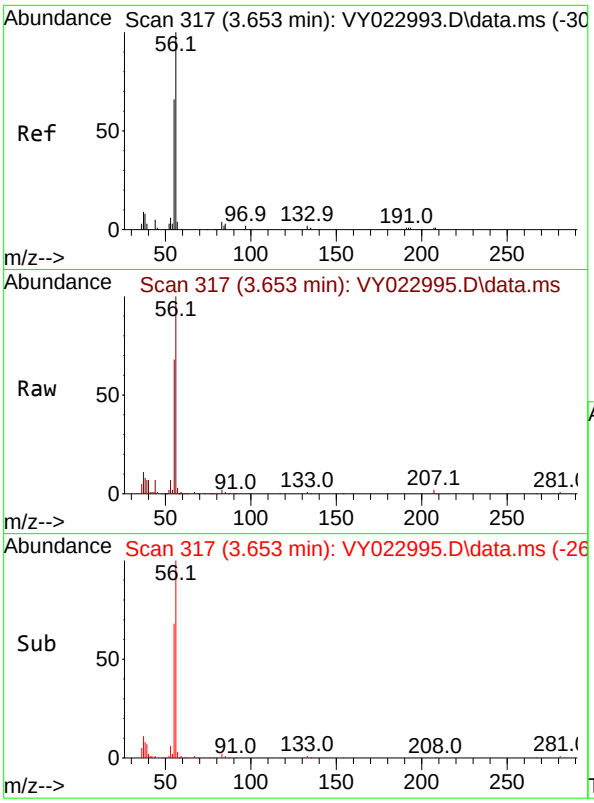


#12
1,1-Dichloroethene
Concen: 139.985 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 96 Resp: 755004

Ion	Ratio	Lower	Upper
96	100		
61	165.3	130.4	195.6
98	63.2	49.6	74.4

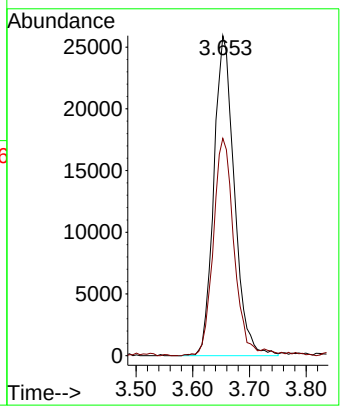




#13
Acrolein
Concen: 460.788 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 56 Resp: 6489

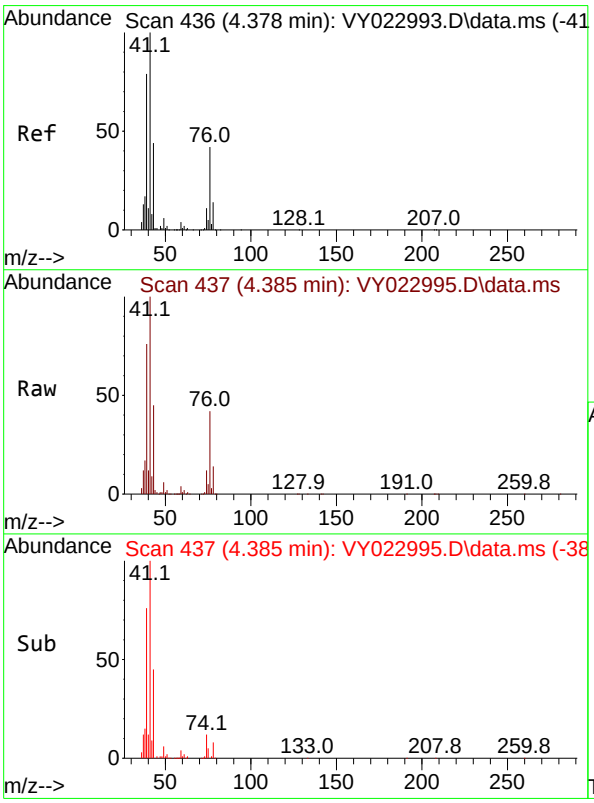
Ion	Ratio	Lower	Upper
56	100		
55	68.0	57.8	86.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

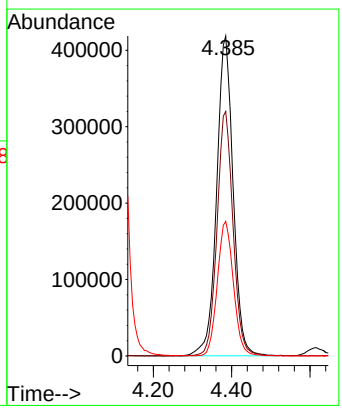
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

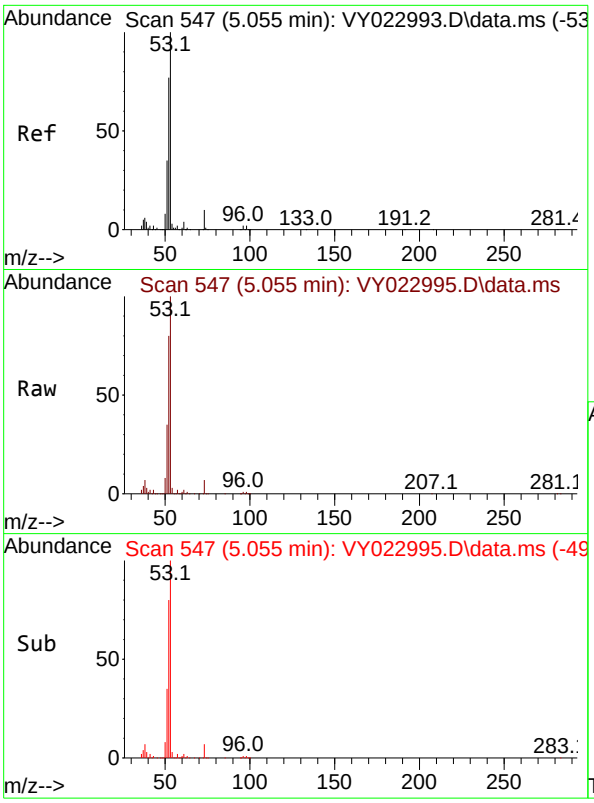


#14
Allyl chloride
Concen: 149.283 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 41 Resp: 1226641

Ion	Ratio	Lower	Upper
41	100		
39	74.5	60.1	90.1
76	41.1	32.2	48.4





#15
Acrylonitrile
Concen: 795.253 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

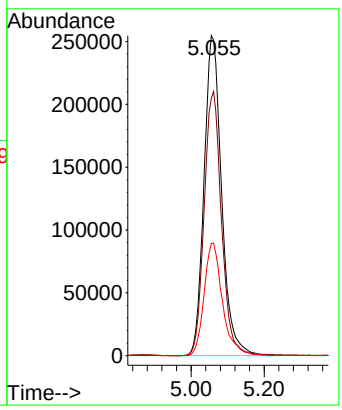
Tgt Ion: 53 Resp: 84967

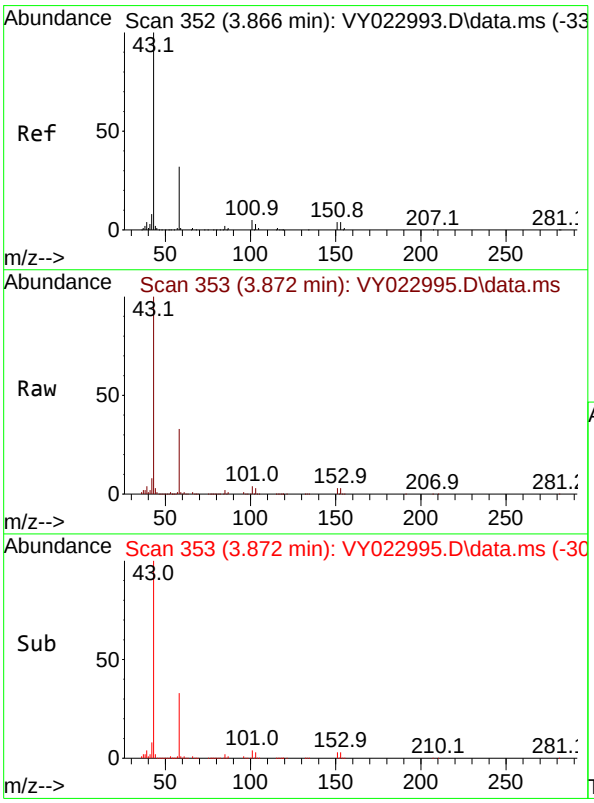
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.2	97.8
51	36.8	30.3	45.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

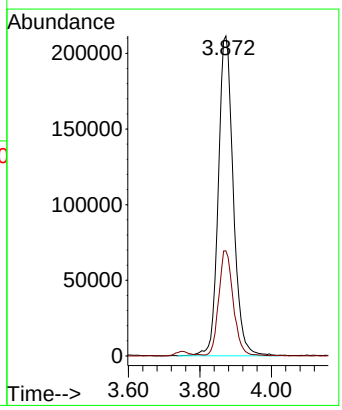


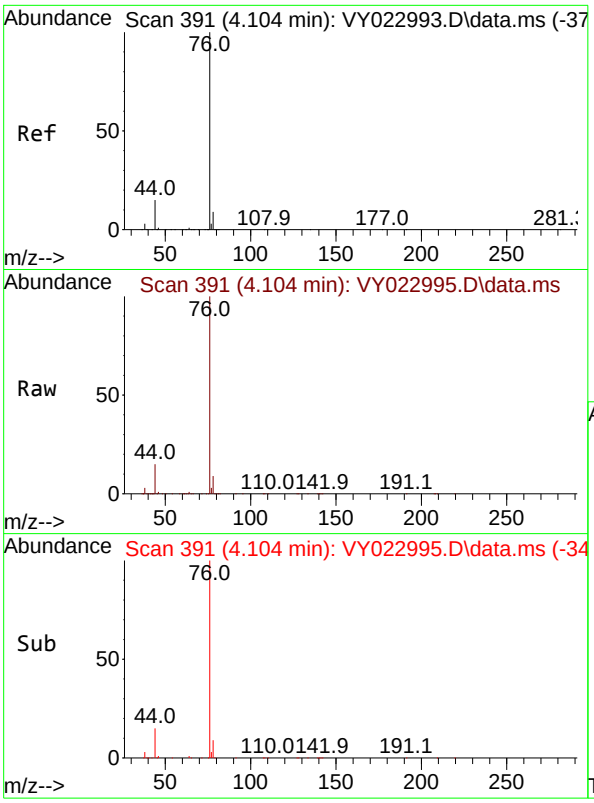


#16
Acetone
Concen: 657.446 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 612358

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.2	39.4





#17
Carbon Disulfide
Concen: 137.375 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

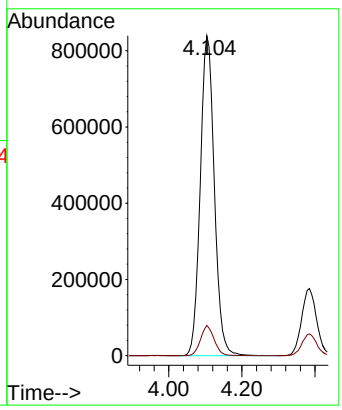
Tgt Ion: 76 Resp: 224556

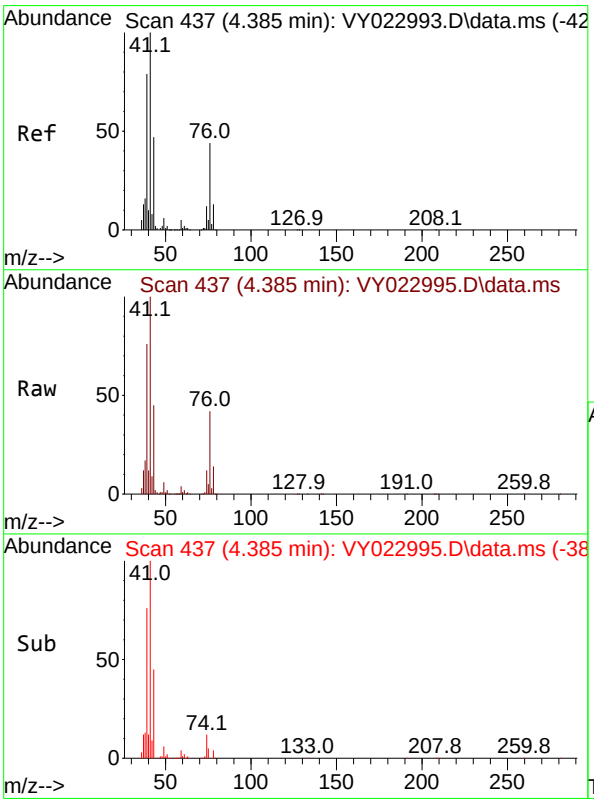
Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

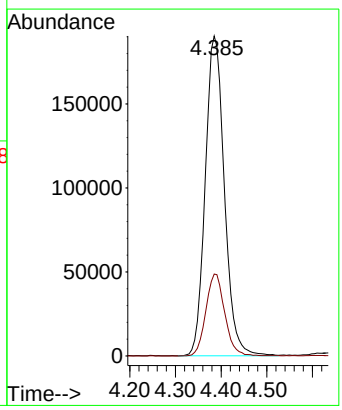


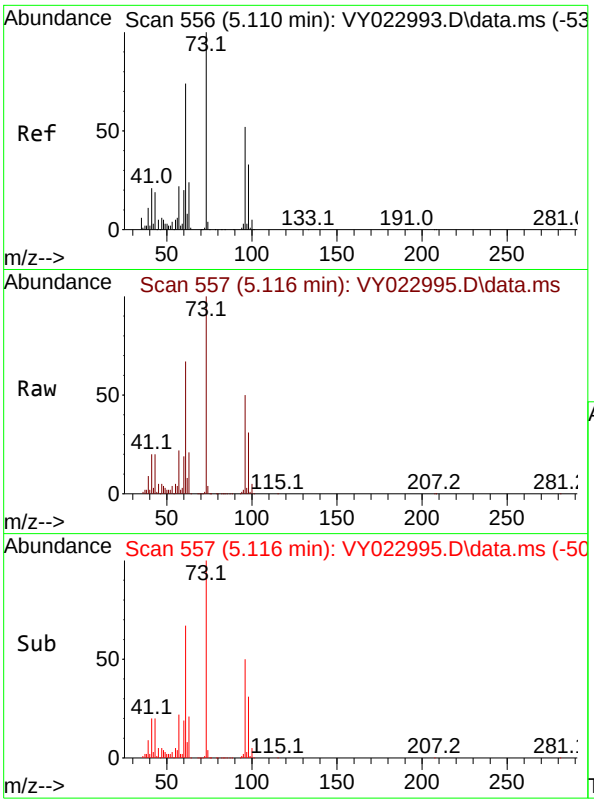


#18
Methyl Acetate
Concen: 175.686 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 554000

Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.1	30.1

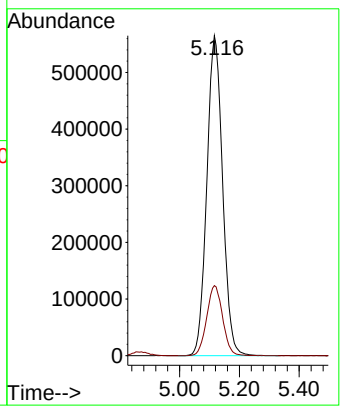




#19
Methyl tert-butyl Ether
Concen: 159.995 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 73 Resp: 206979

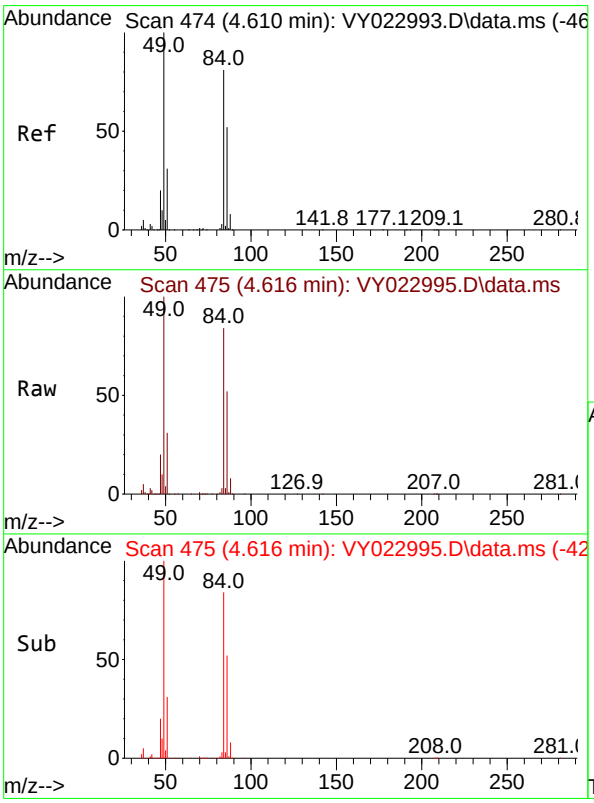
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

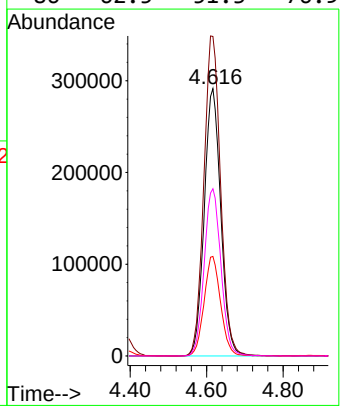
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

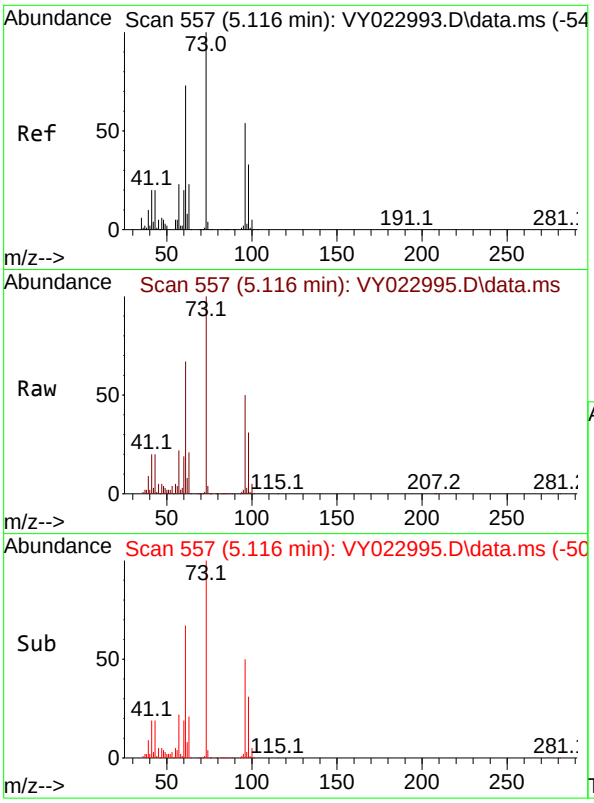


#20
Methylene Chloride
Concen: 150.366 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 84 Resp: 875539

Ion	Ratio	Lower	Upper
84	100		
49	119.5	98.2	147.4
51	37.2	30.5	45.7
86	62.5	51.3	76.9

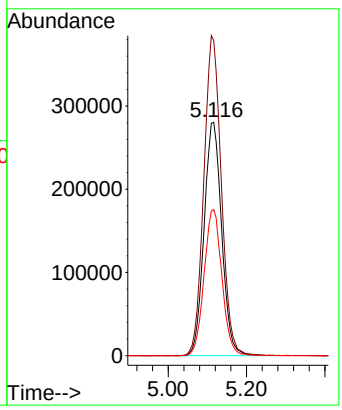




#21
trans-1,2-Dichloroethene
Concen: 145.658 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 96 Resp: 87449

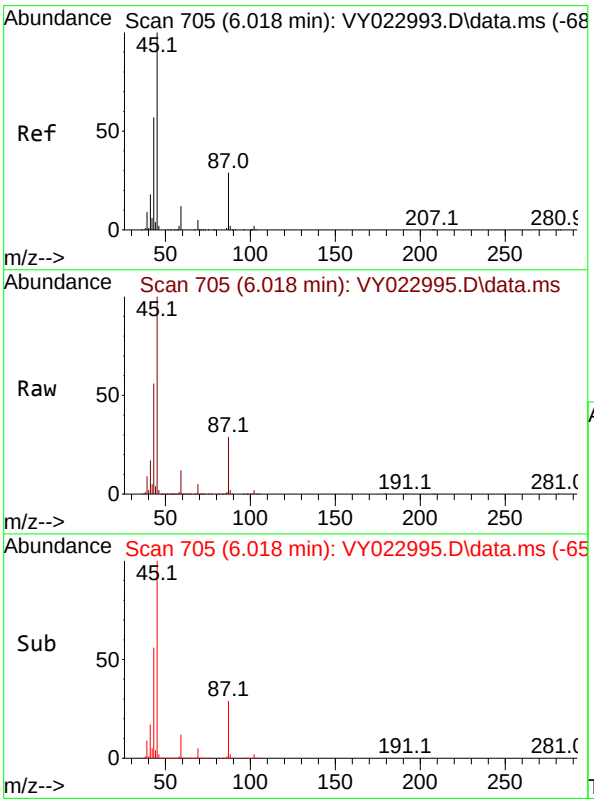
Ion	Ratio	Lower	Upper
96	100		
61	135.0	107.4	161.2
98	62.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

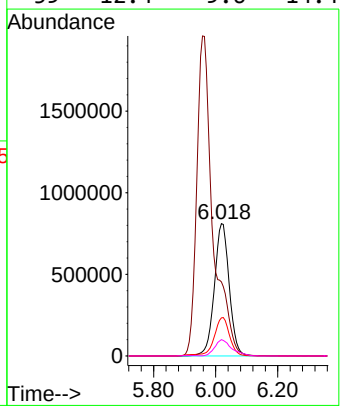
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

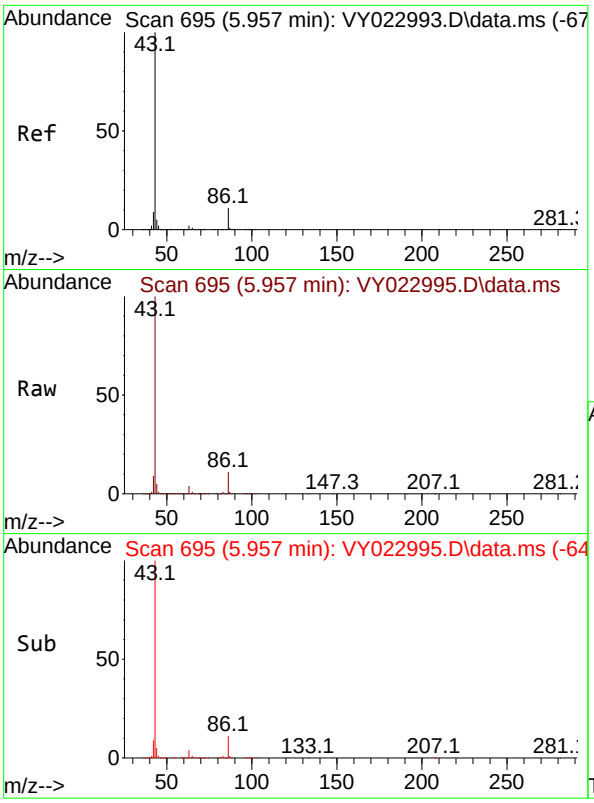


#22
Diisopropyl ether
Concen: 154.774 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 45 Resp: 2698023

Ion	Ratio	Lower	Upper
45	100		
43	55.9	45.3	67.9
87	28.8	23.3	34.9
59	12.4	9.6	14.4





#23
Vinyl Acetate
Concen: 802.533 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

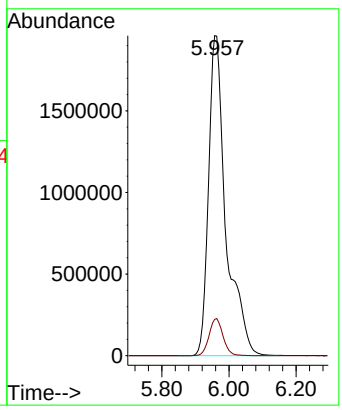
Tgt Ion: 43 Resp: 704899

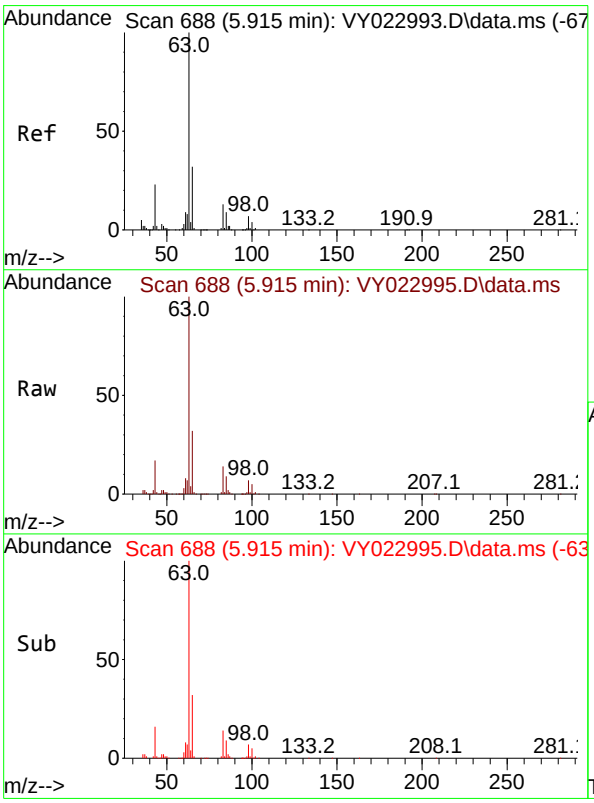
Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

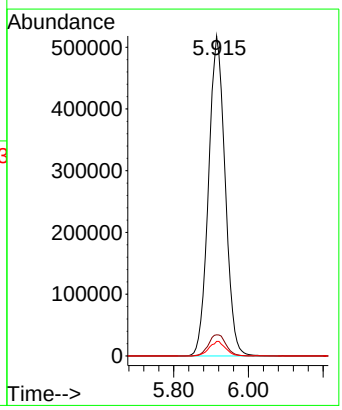


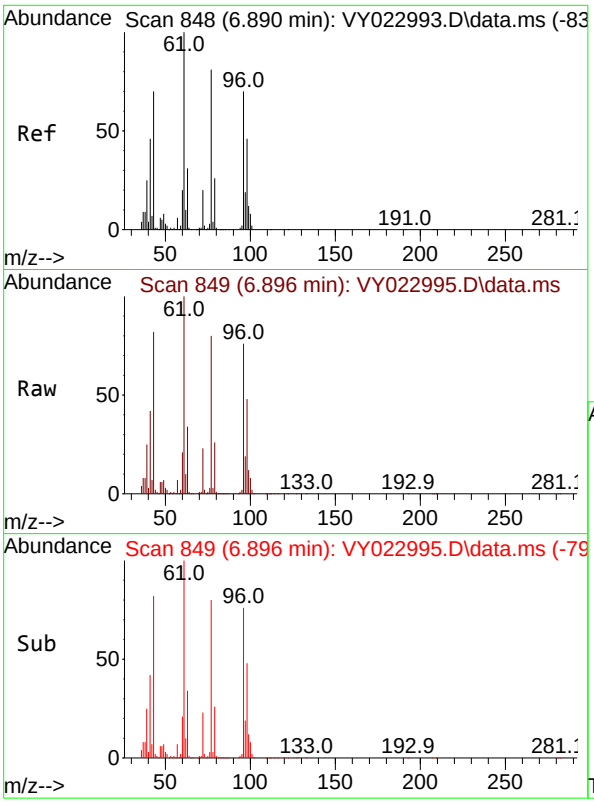


#24
1,1-Dichloroethane
Concen: 146.106 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 63 Resp: 1599724

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	4.6	2.1	6.2

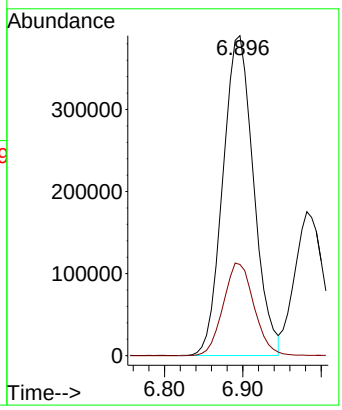




#25
2-Butanone
Concen: 796.353 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 106409

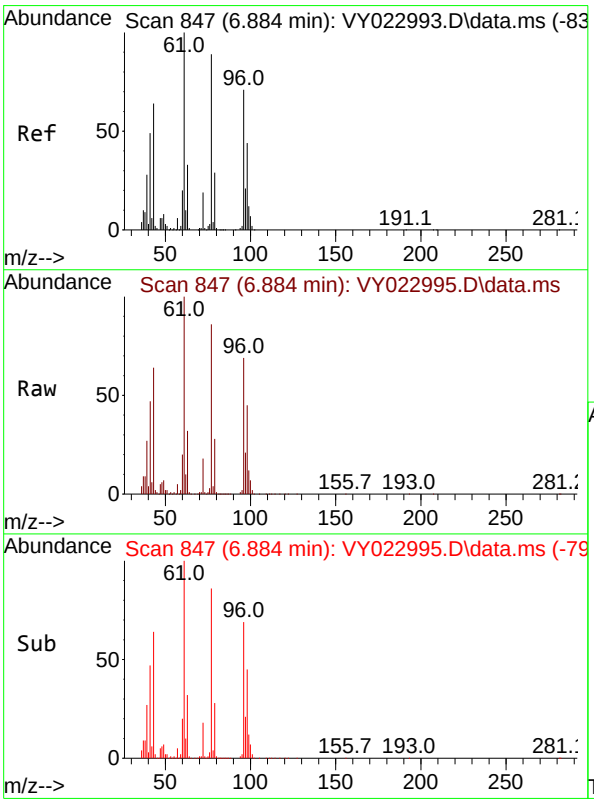
Ion	Ratio	Lower	Upper
43	100		
72	28.5	22.9	34.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

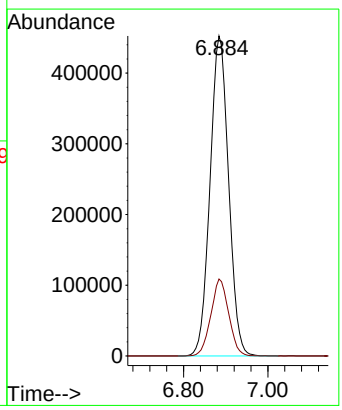
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

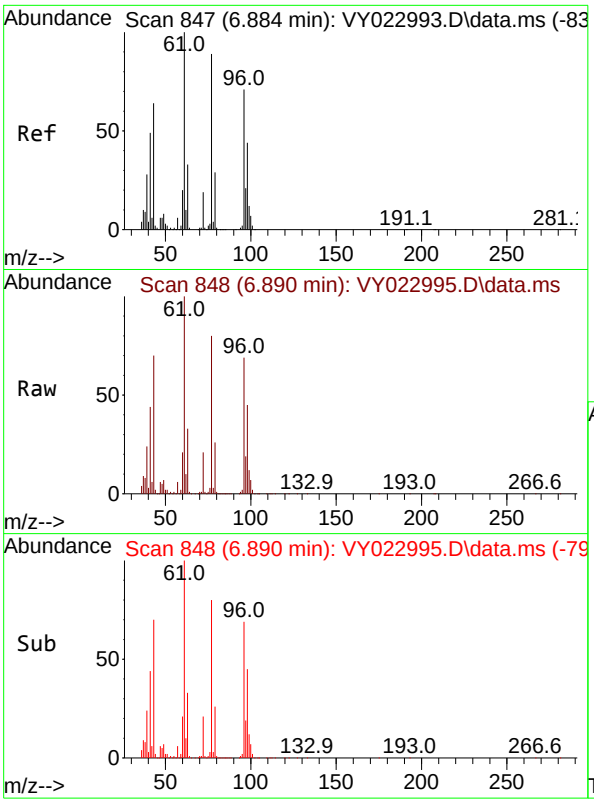


#26
2,2-Dichloropropane
Concen: 143.975 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 77 Resp: 1381568

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.3	33.9

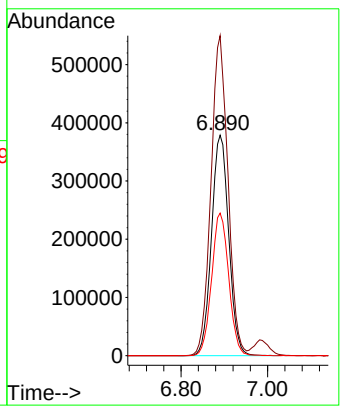




#27
cis-1,2-Dichloroethene
Concen: 151.118 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 96 Resp: 104562

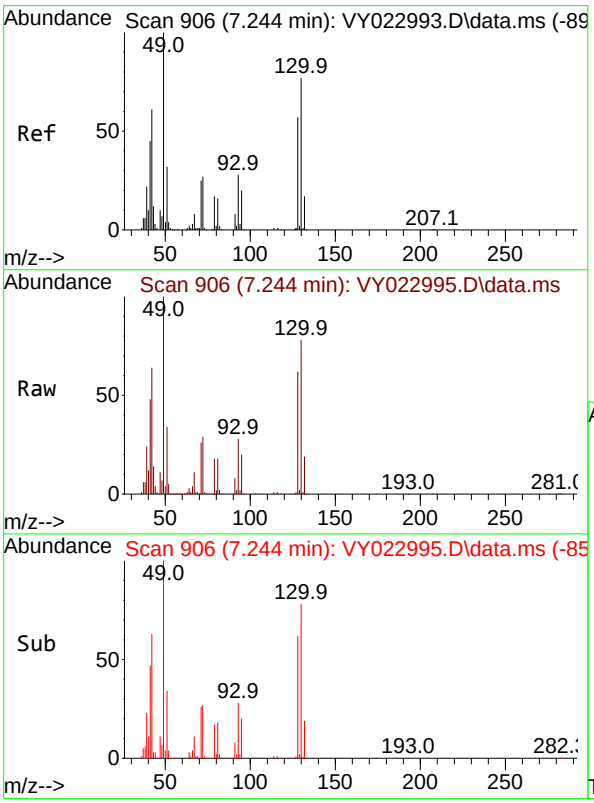
Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	286.2
98	64.4	0.0	127.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

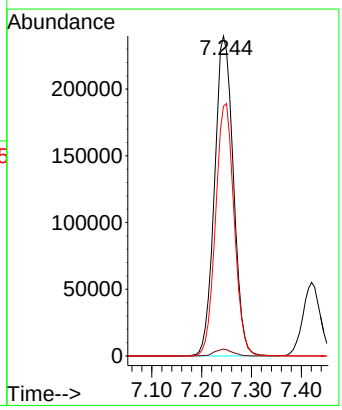
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

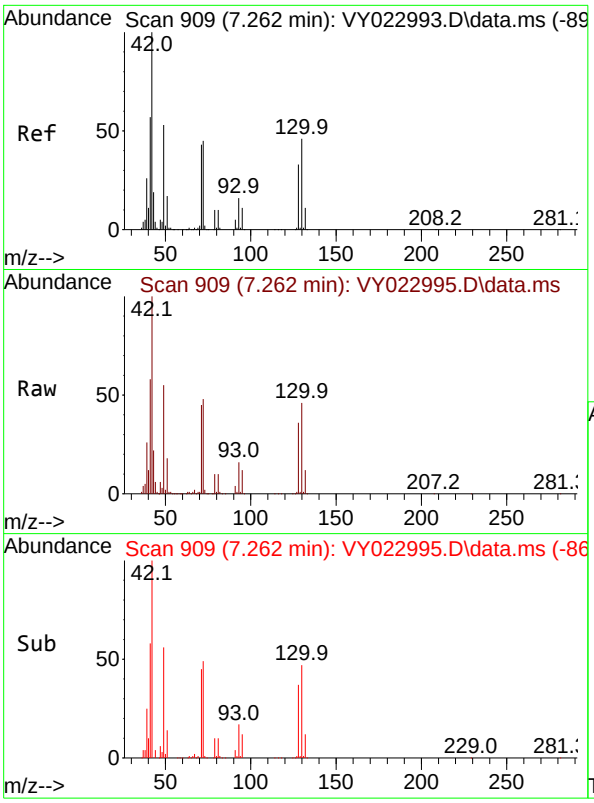


#28
Bromochloromethane
Concen: 147.946 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 49 Resp: 628281

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	77.9	61.8	92.8

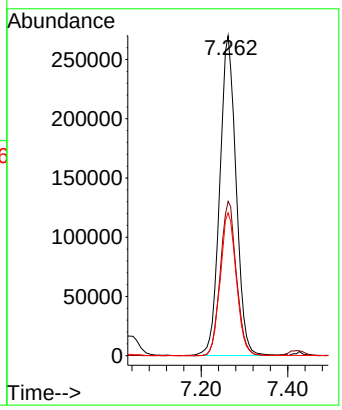




#29
Tetrahydrofuran
Concen: 834.735 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 42 Resp: 70617

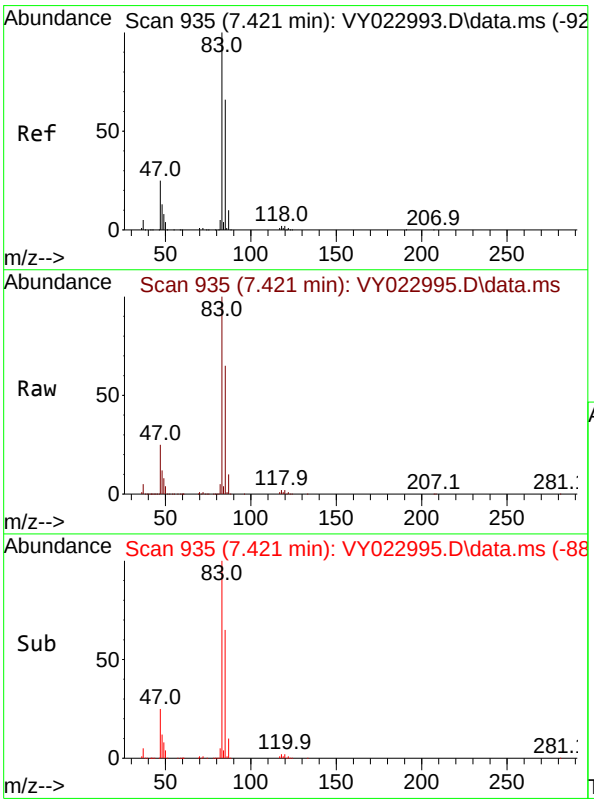
Ion	Ratio	Lower	Upper
42	100		
72	47.6	37.5	56.3
71	44.2	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

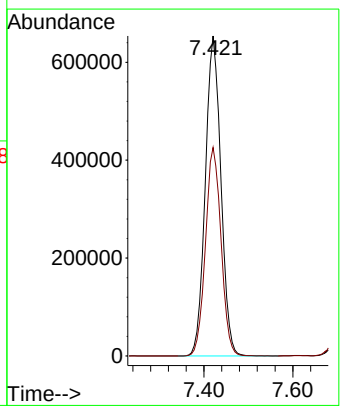
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

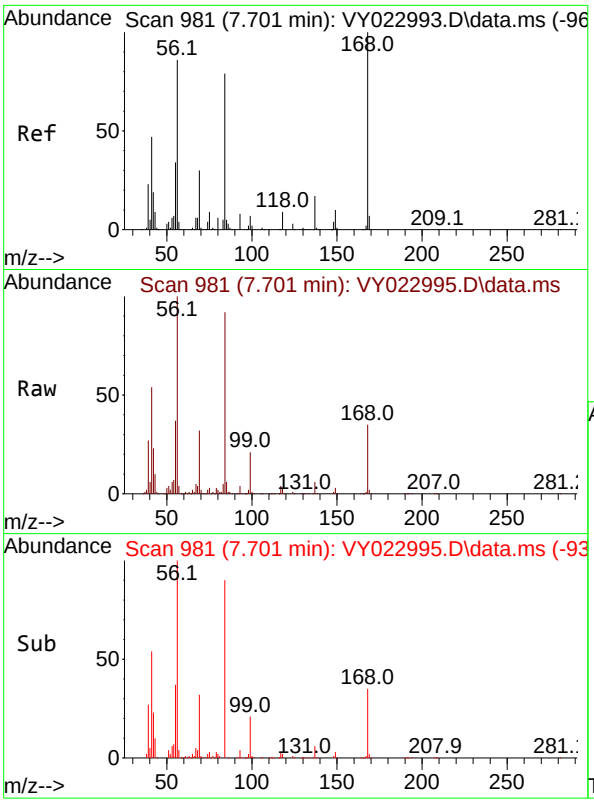


#30
Chloroform
Concen: 144.750 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 83 Resp: 1598800

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.6	78.8





#31
Cyclohexane
Concen: 136.623 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

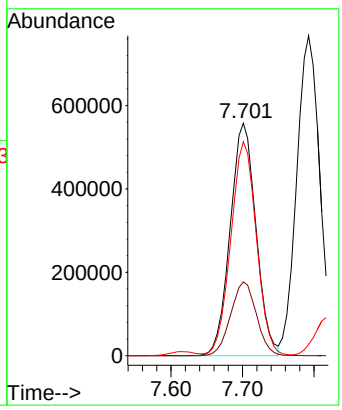
Tgt Ion: 56 Resp: 139774

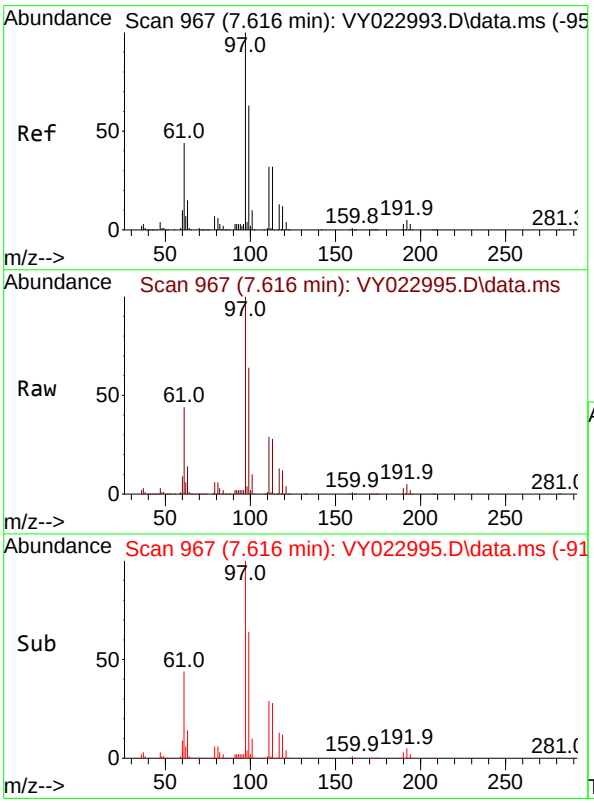
Ion	Ratio	Lower	Upper
56	100		
69	31.8	28.1	42.1
84	90.3	73.5	110.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

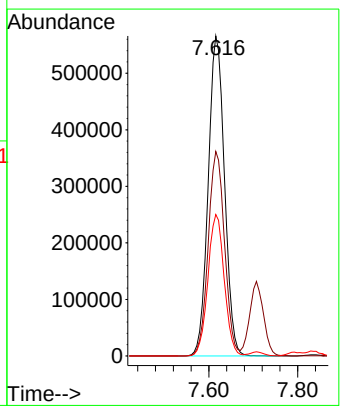


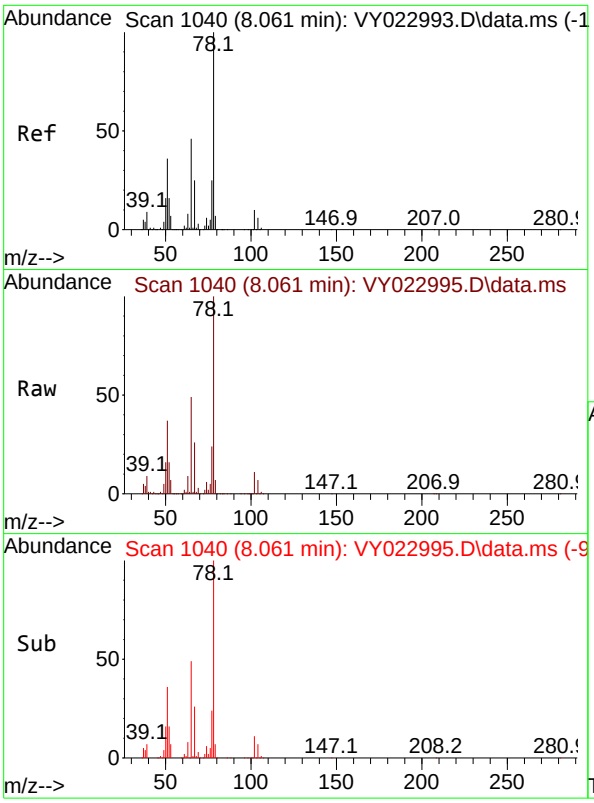


#32
1,1,1-Trichloroethane
Concen: 143.937 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 97 Resp: 1442504

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	44.3	36.1	54.1





#33
1,2-Dichloroethane-d4
Concen: 147.778 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

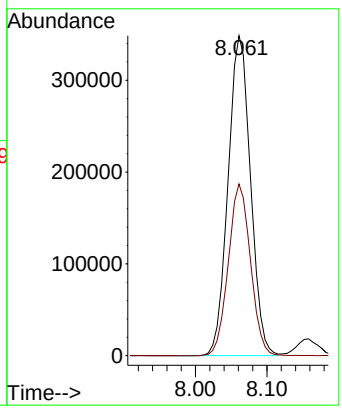
Tgt Ion: 65 Resp: 75933

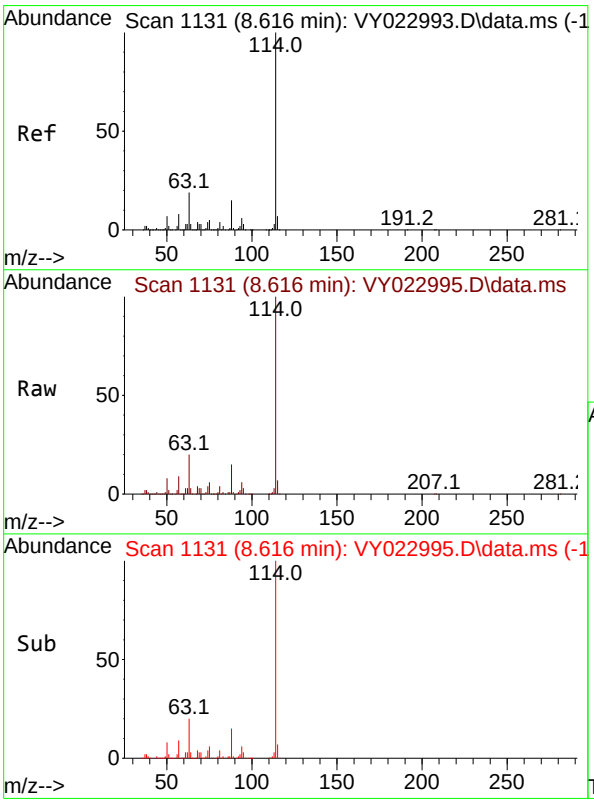
Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	107.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

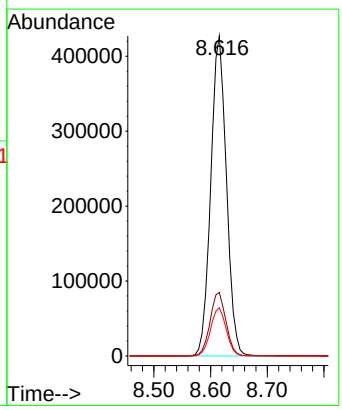


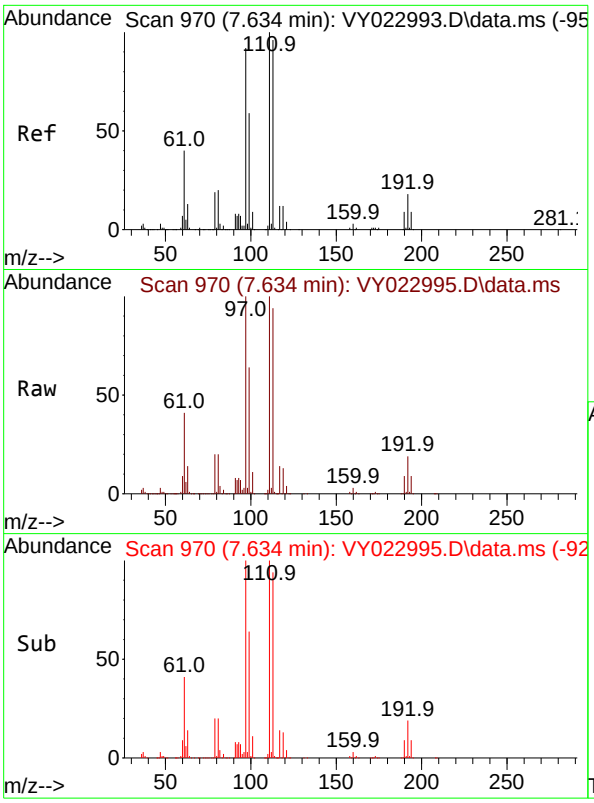


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:114 Resp: 818041

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	38.8
88	15.1	0.0	30.2





#35
Dibromofluoromethane
Concen: 148.308 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

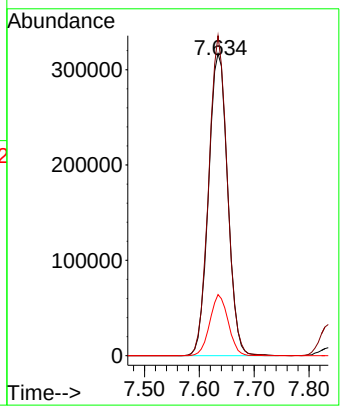
Tgt Ion:113 Resp: 76958

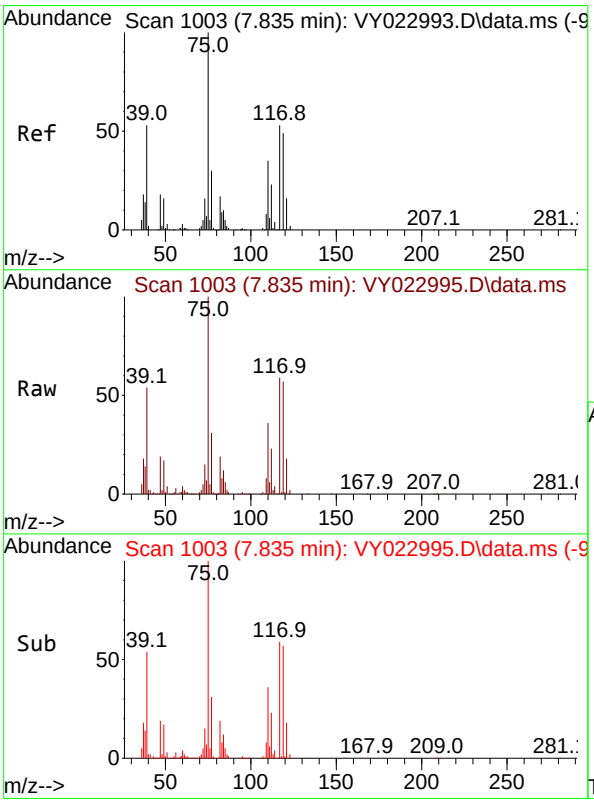
Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.2	124.8
192	19.3	15.3	22.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

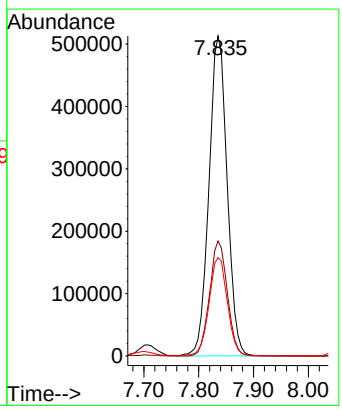


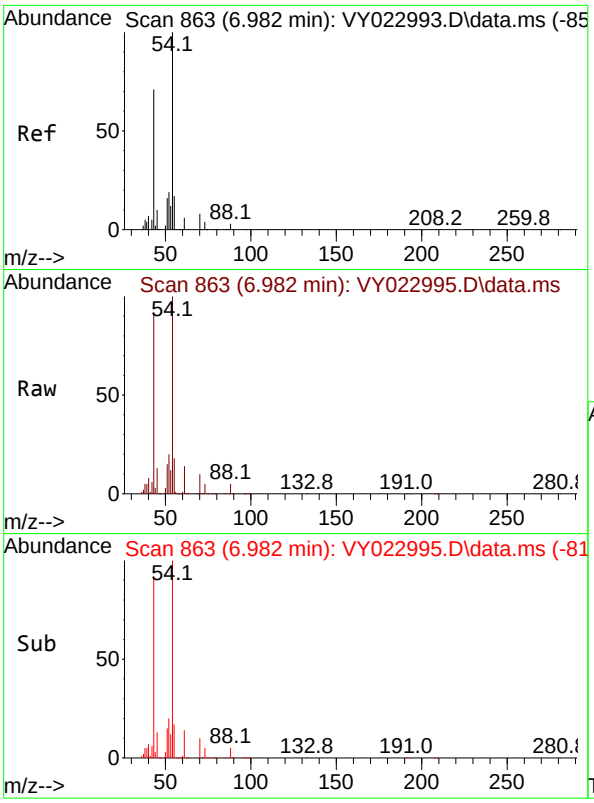


#36
1,1-Dichloropropene
Concen: 144.097 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 1177815

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	31.0	24.6	37.0





#37
Ethyl Acetate
Concen: 152.699 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

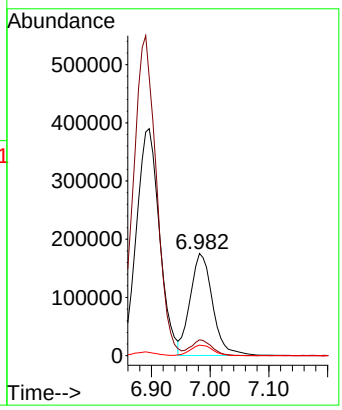
Tgt Ion: 43 Resp: 46354

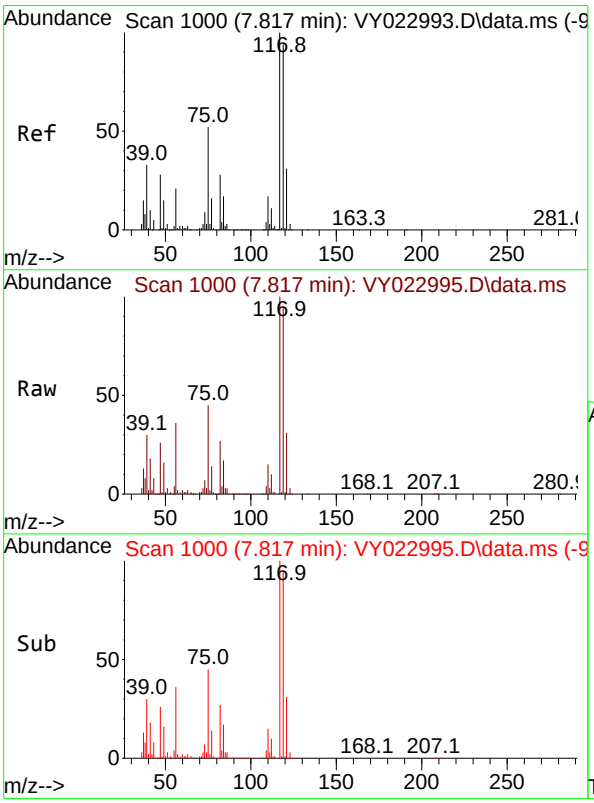
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.6	17.4
70	10.2	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

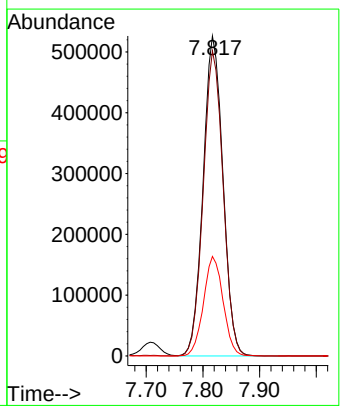


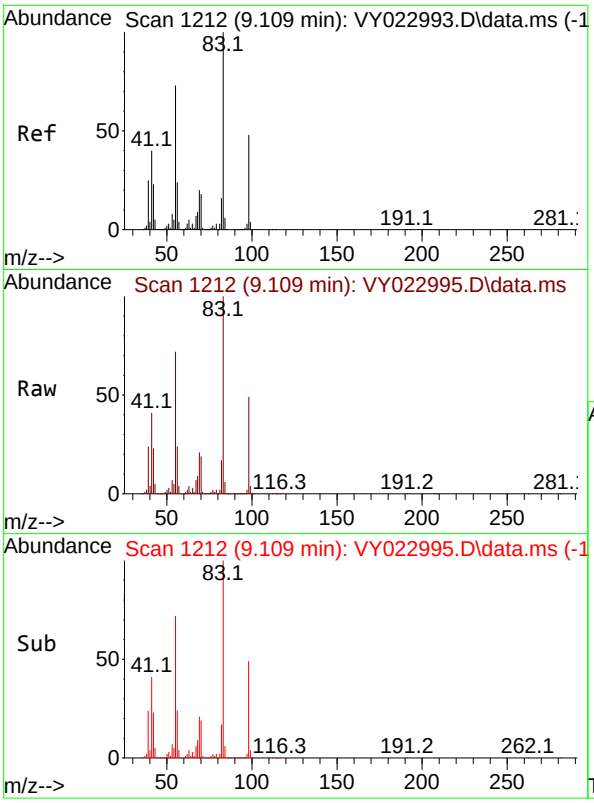


#38
Carbon Tetrachloride
Concen: 143.863 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:117 Resp: 1277517

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.9	112.3
121	31.1	24.6	37.0





#39
Methylcyclohexane
Concen: 147.341 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

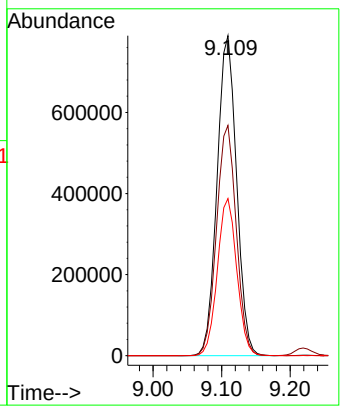
Tgt Ion: 83 Resp: 155880

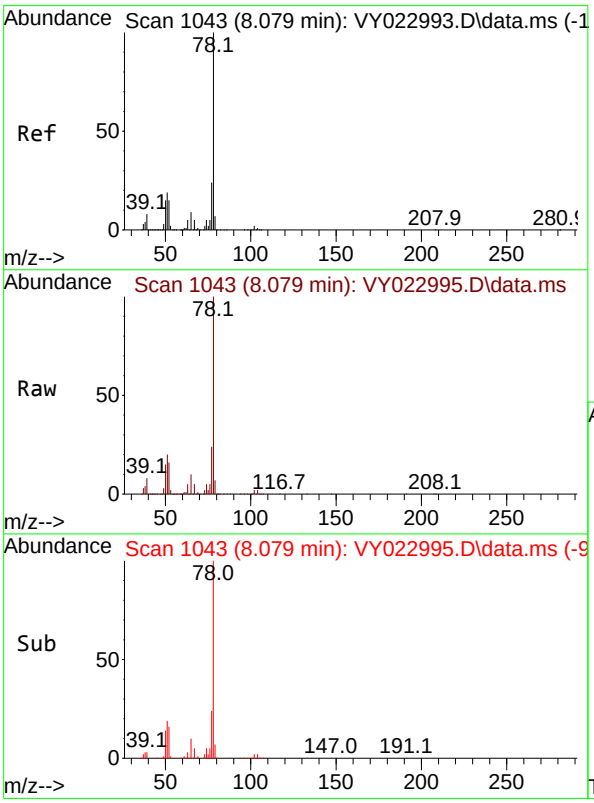
Ion	Ratio	Lower	Upper
83	100		
55	71.9	58.1	87.1
98	49.1	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

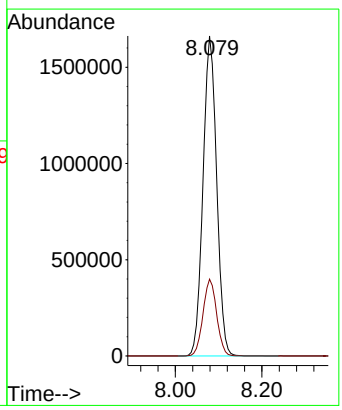


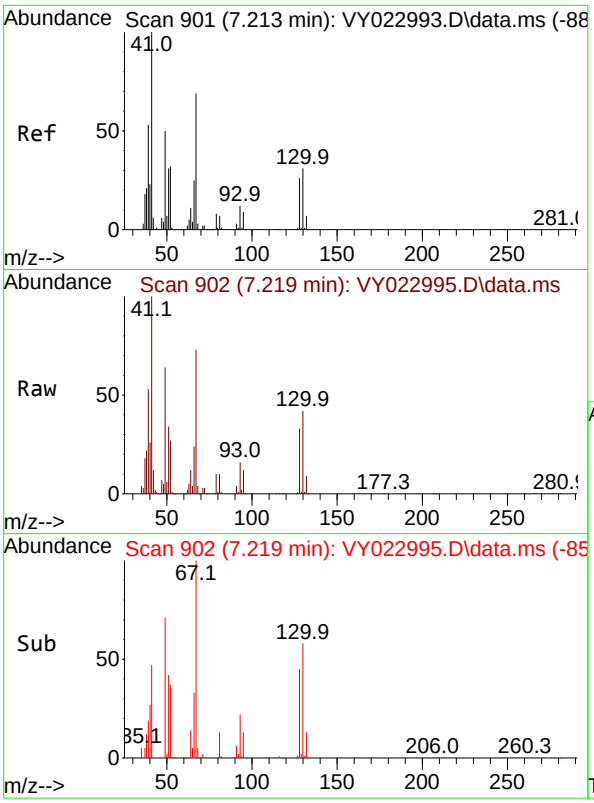


#40
Benzene
Concen: 147.493 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 78 Resp: 3629855

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4

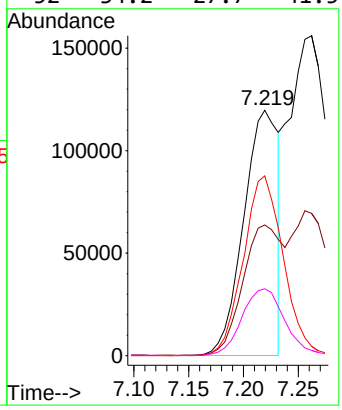




#41
Methacrylonitrile
Concen: 163.855 ug/l
RT: 7.219 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 41 Resp: 26254(

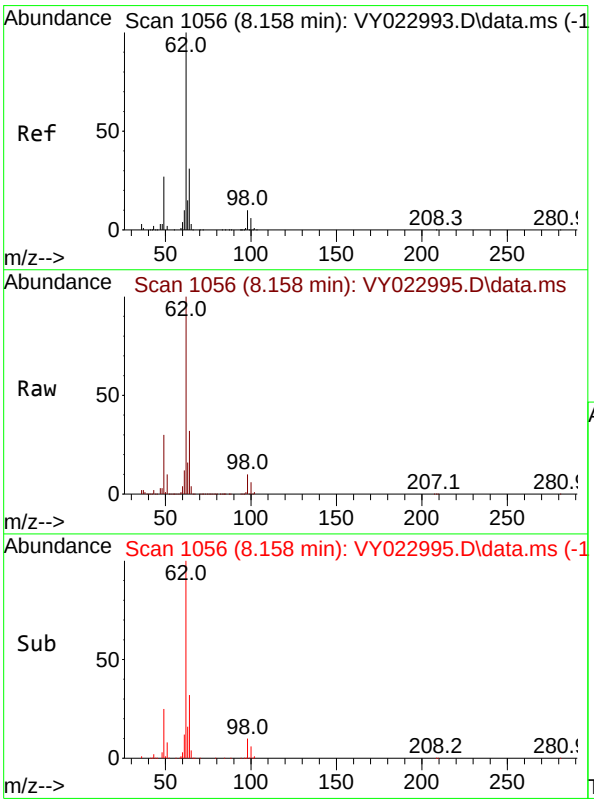
Ion	Ratio	Lower	Upper
41	100		
39	61.6	50.0	75.0
67	85.1	65.4	98.2
52	34.2	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

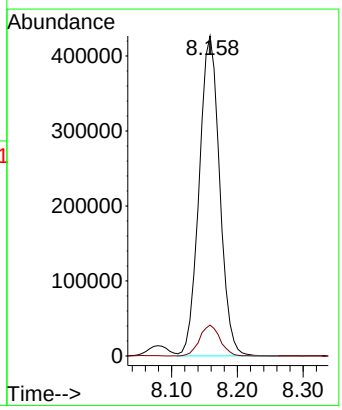
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

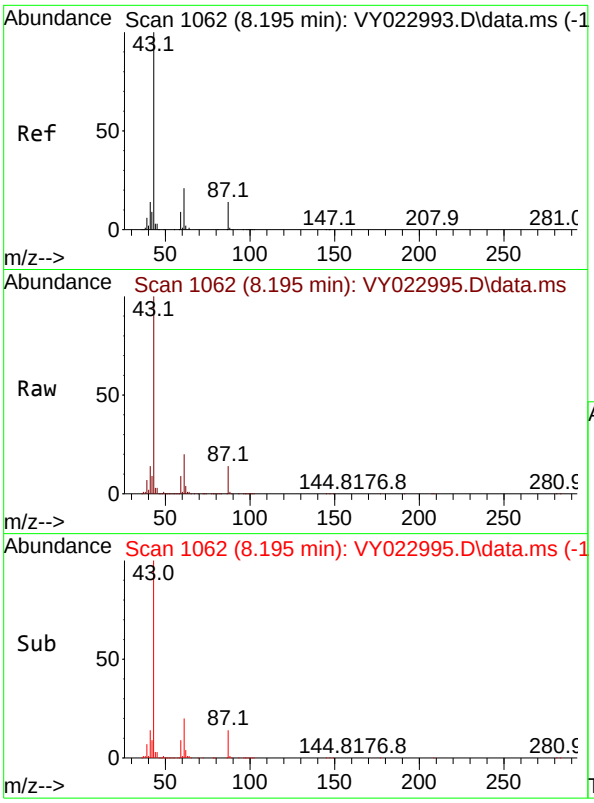


#42
1,2-Dichloroethane
Concen: 150.515 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 62 Resp: 921582

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.0





#43
Isopropyl Acetate
Concen: 165.022 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

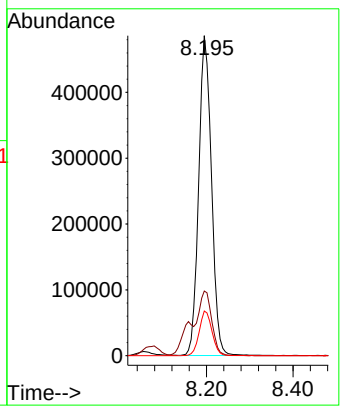
Tgt Ion: 43 Resp: 99508

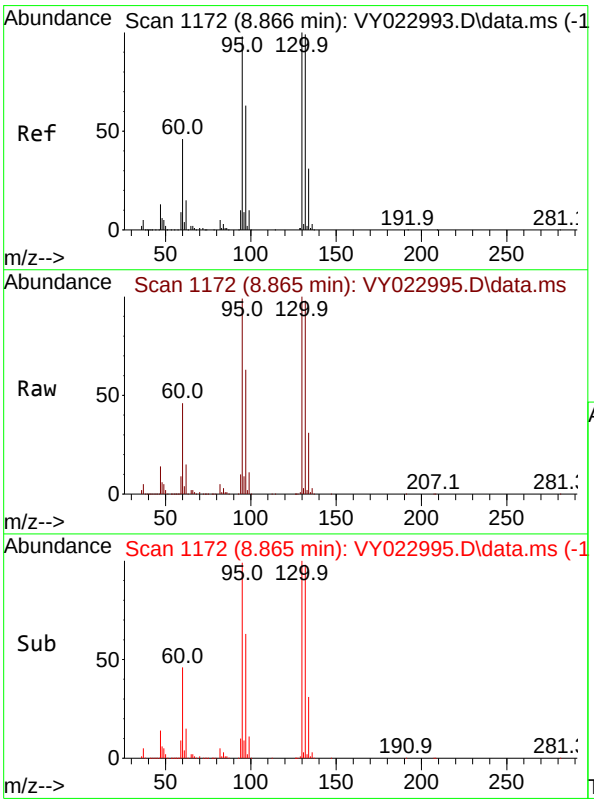
Ion	Ratio	Lower	Upper
43	100		
61	21.0	25.0	37.4
87	14.0	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

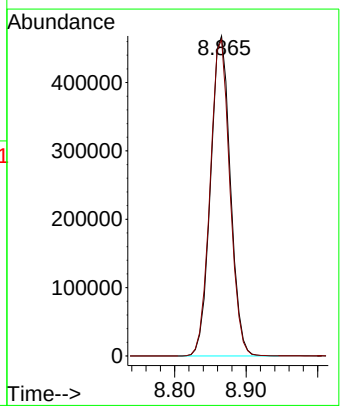


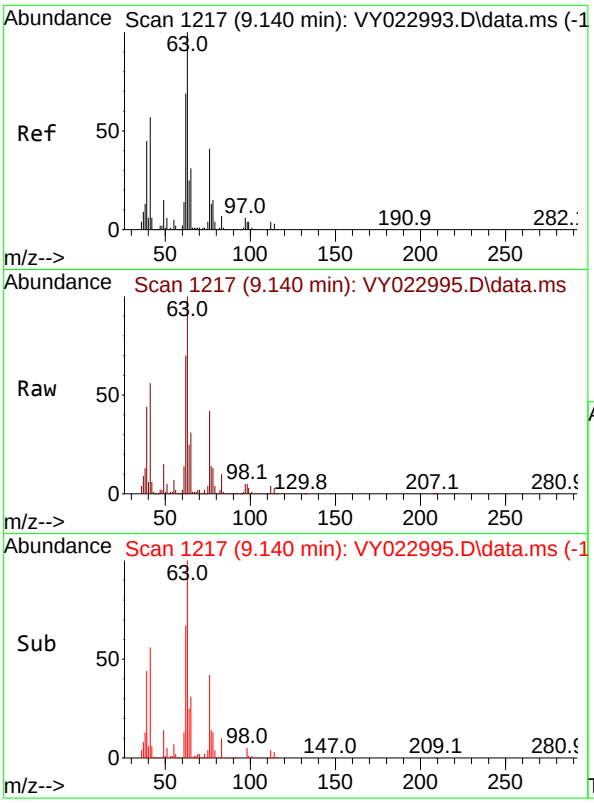


#44
Trichloroethene
Concen: 142.310 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:130 Resp: 899565

Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	195.8





#45
1,2-Dichloropropane
Concen: 147.880 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

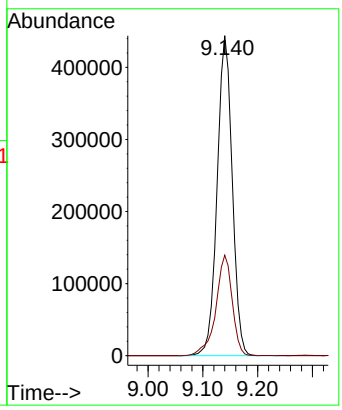
Tgt Ion: 63 Resp: 84988

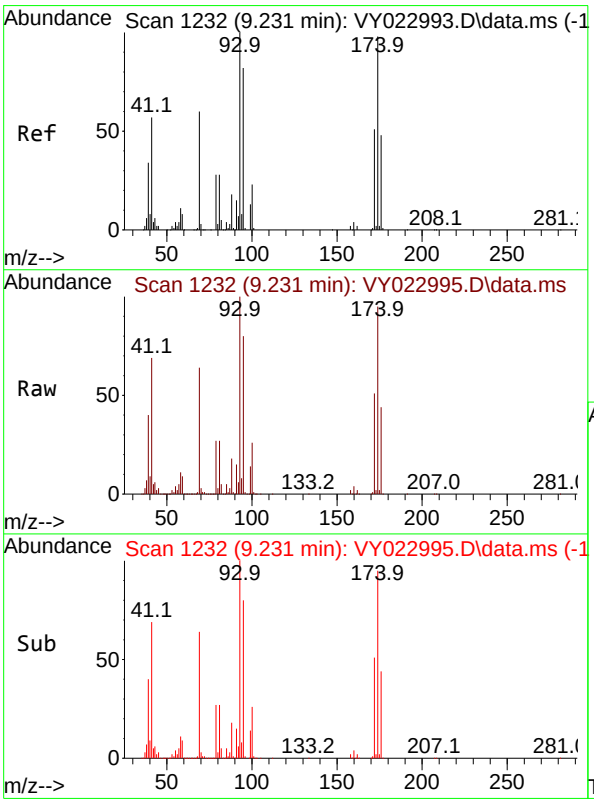
Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

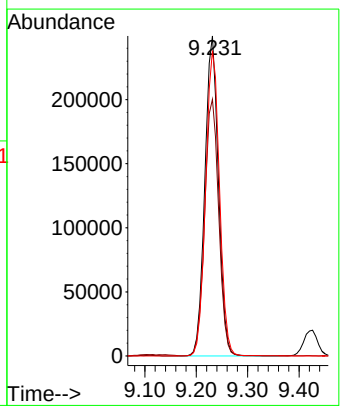


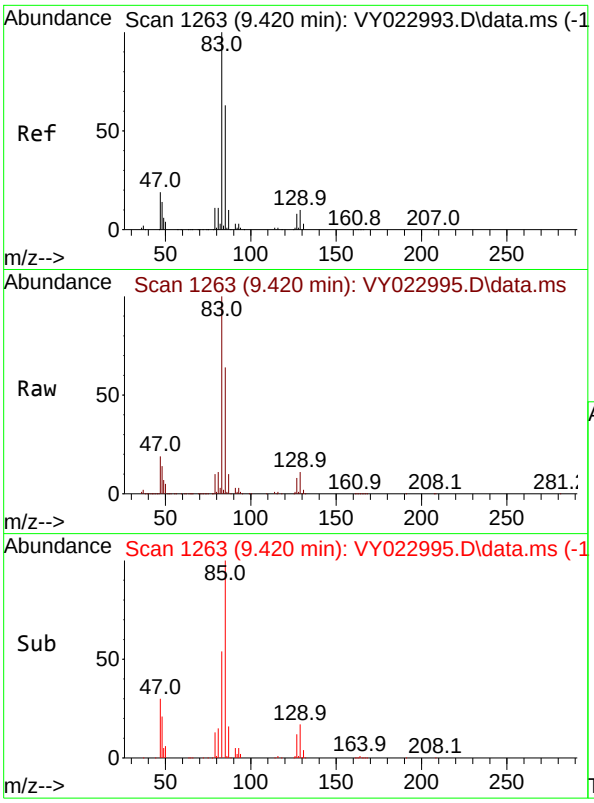


#46
Dibromomethane
Concen: 153.894 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 93 Resp: 457164

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.9	98.9
174	97.5	76.4	114.6

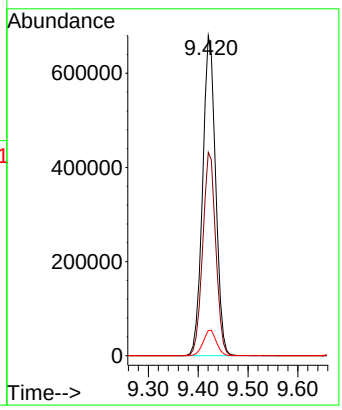




#47
Bromodichloromethane
Concen: 149.779 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 83 Resp: 122990

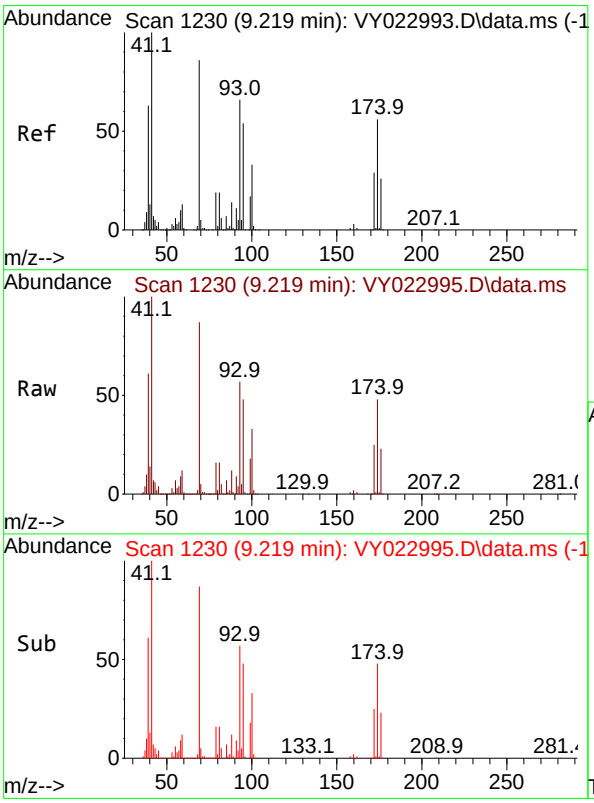
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	7.8	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

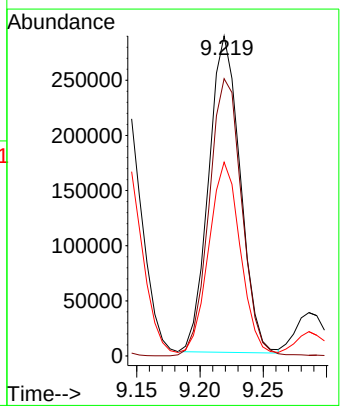
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

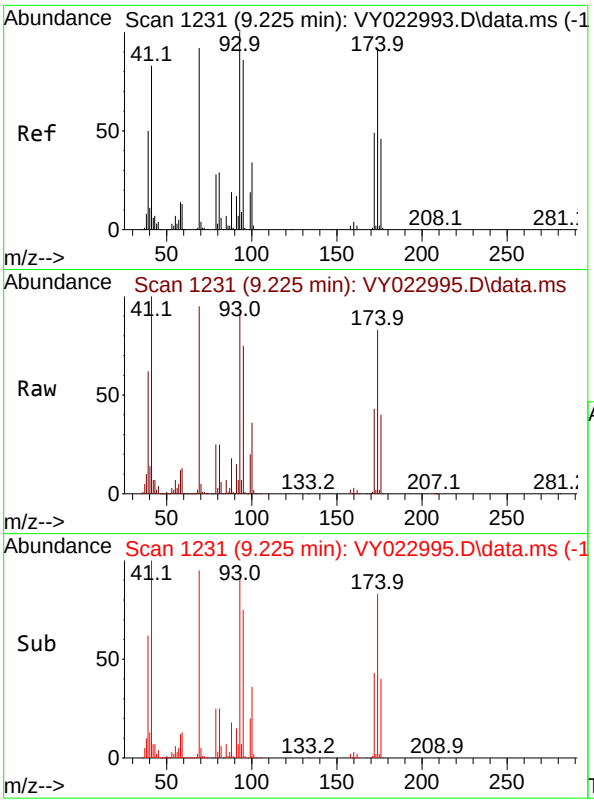


#48
Methyl methacrylate
Concen: 170.750 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 41 Resp: 497091

Ion	Ratio	Lower	Upper
41	100		
69	91.2	71.4	107.0
39	59.9	47.8	71.8





#49
1,4-Dioxane
Concen: 3372.404 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

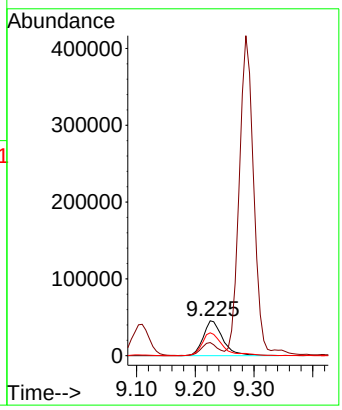
Tgt Ion: 88 Resp: 10560

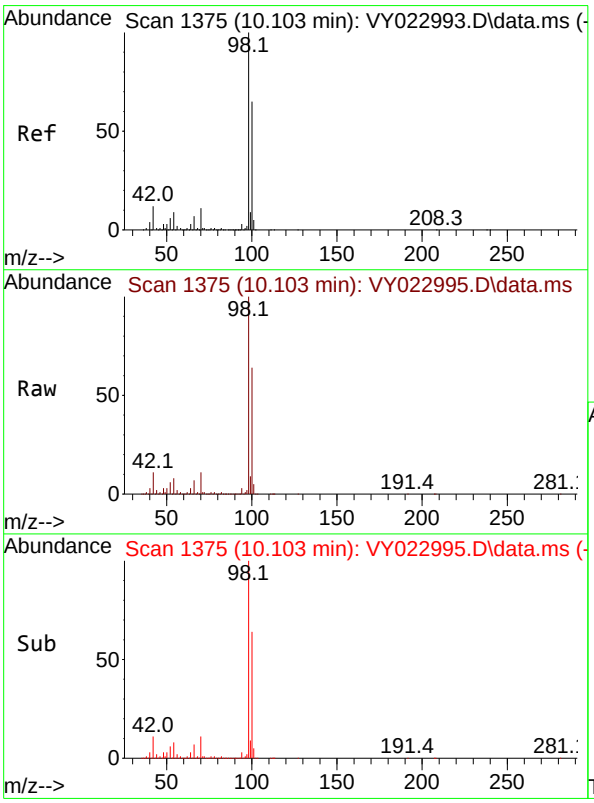
Ion	Ratio	Lower	Upper
88	100		
43	31.8	28.7	43.1
58	69.2	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

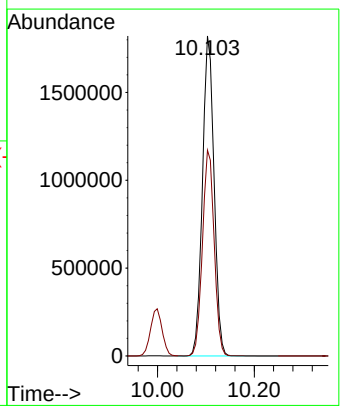


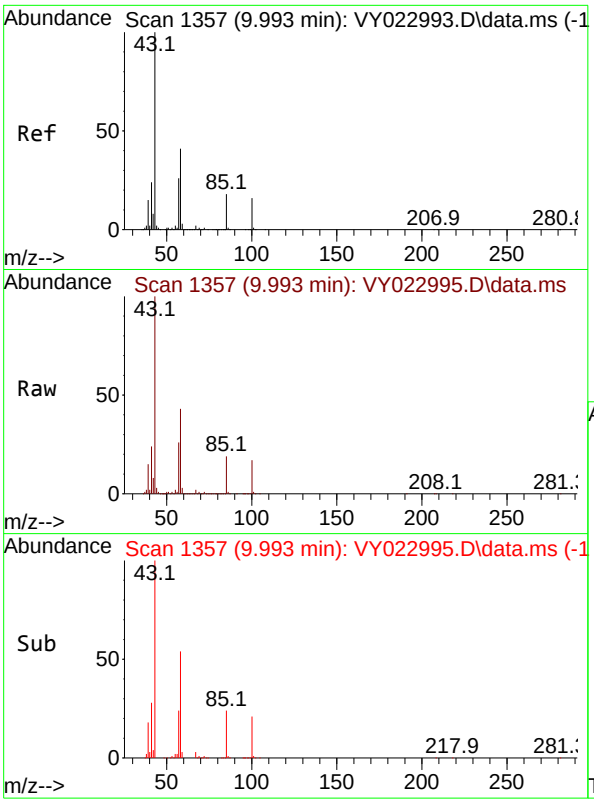


#50
Toluene-d8
Concen: 147.281 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 98 Resp: 3030762

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 856.011 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

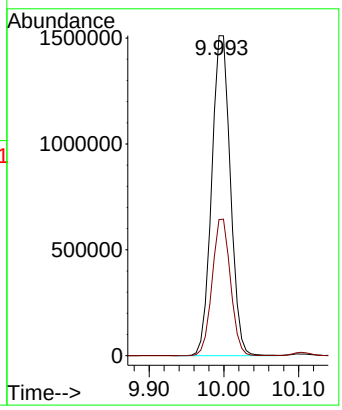
Tgt Ion: 43 Resp: 261993

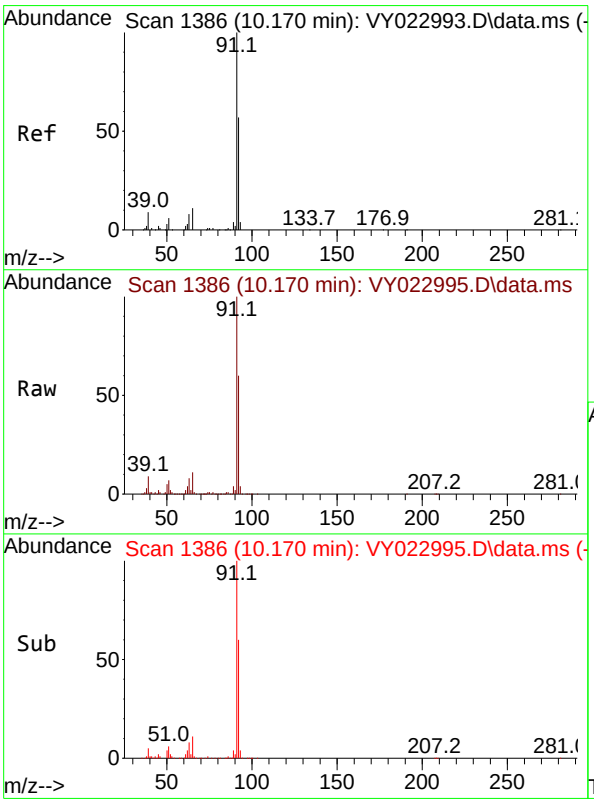
Ion	Ratio	Lower	Upper
43	100		
58	42.0	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

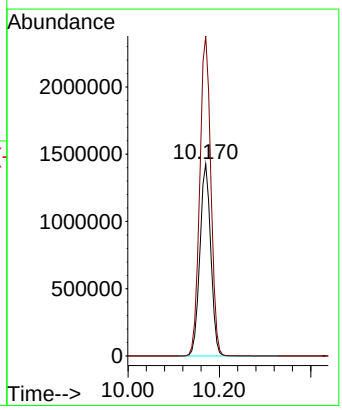


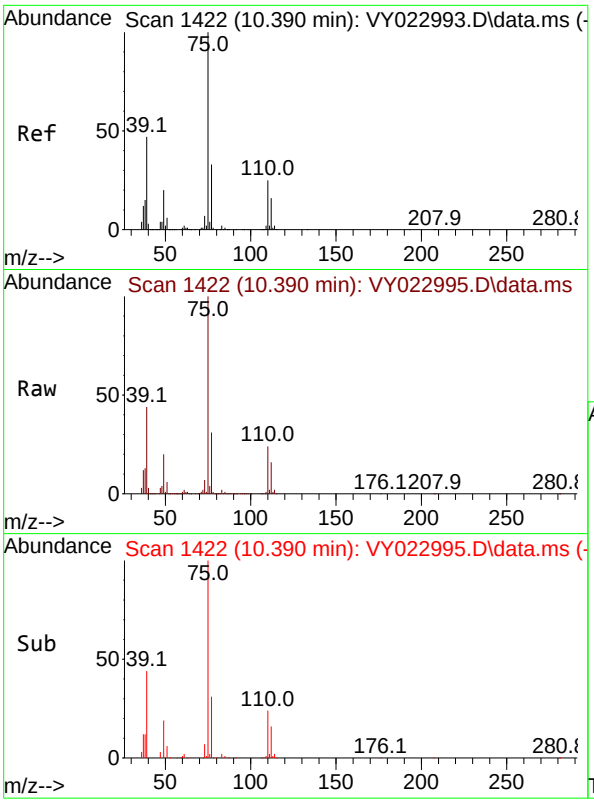


#52
Toluene
Concen: 153.936 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 92 Resp: 2355369

Ion	Ratio	Lower	Upper
92	100		
91	169.8	137.8	206.6

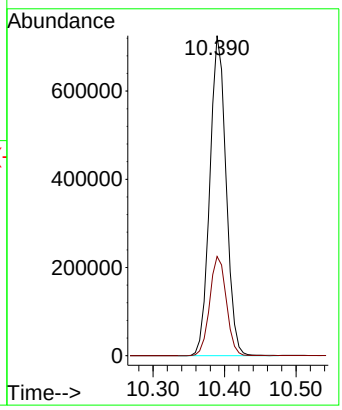




#53
t-1,3-Dichloropropene
Concen: 162.478 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 114526

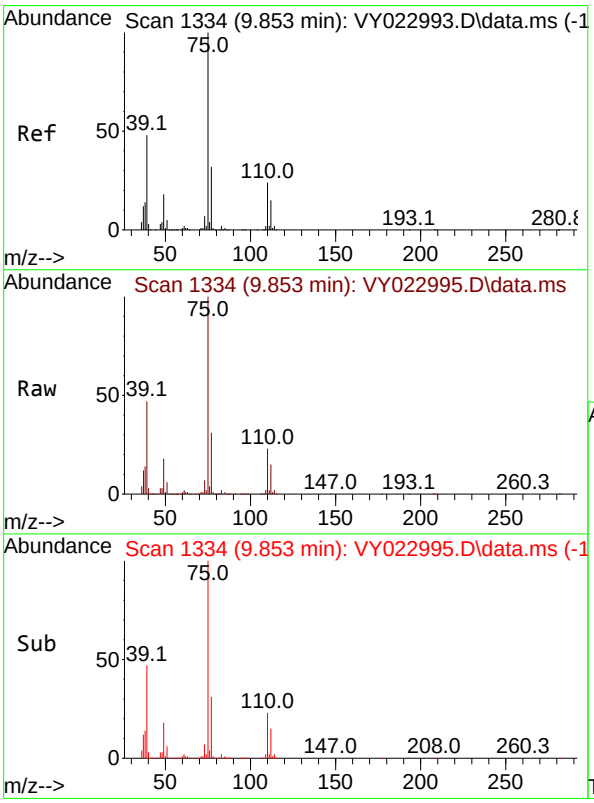
Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

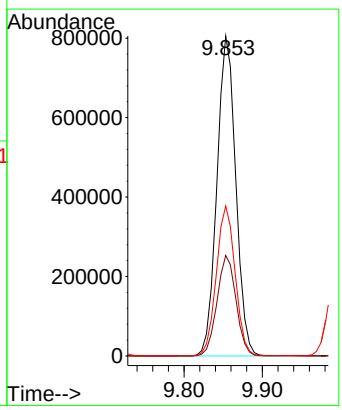
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

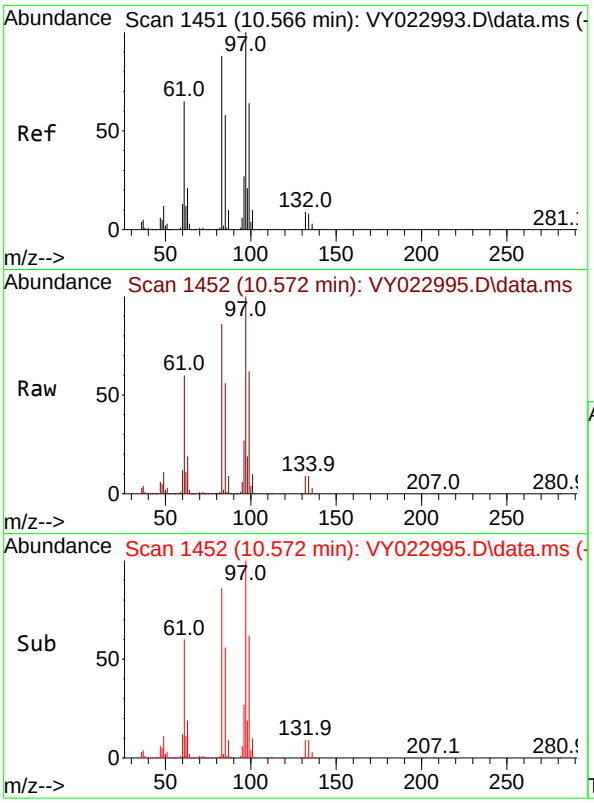


#54
cis-1,3-Dichloropropene
Concen: 158.600 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 1347461

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	46.9	38.2	57.2

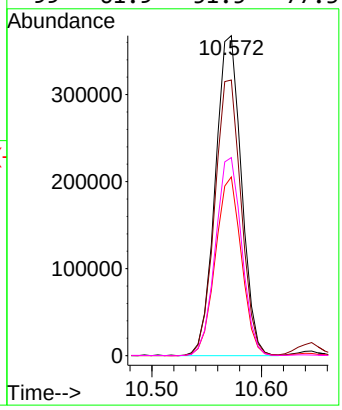




#55
1,1,2-Trichloroethane
Concen: 156.212 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 97 Resp: 60992

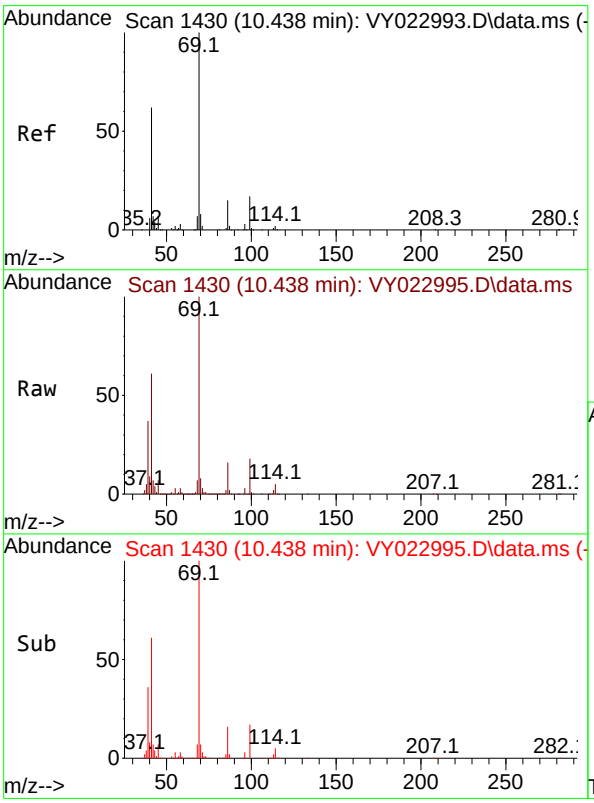
Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.2	105.2
85	55.8	46.2	69.2
99	61.9	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

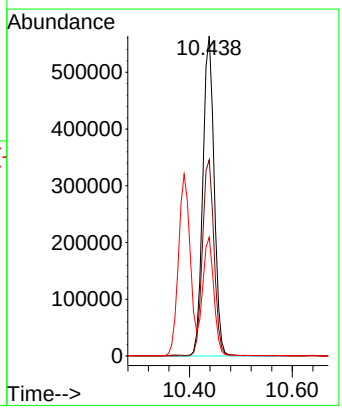
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

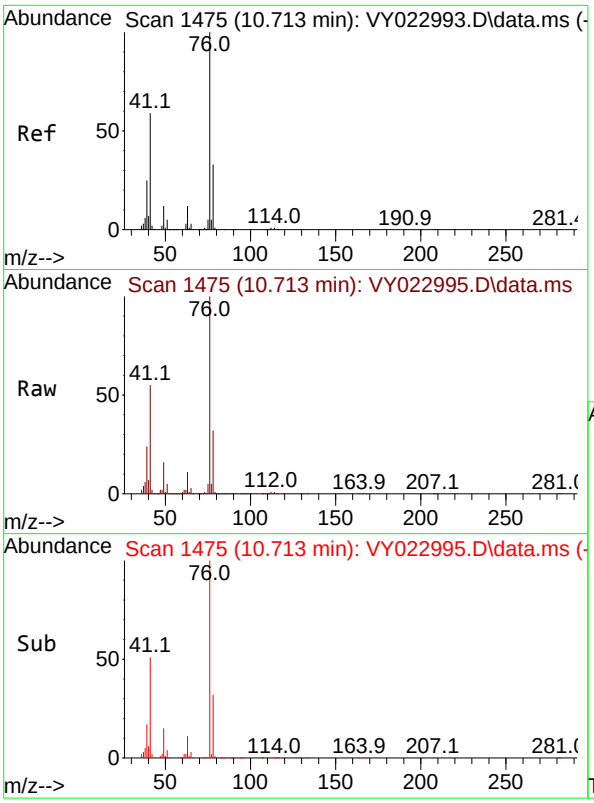


#56
Ethyl methacrylate
Concen: 176.974 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 69 Resp: 862573

Ion	Ratio	Lower	Upper
69	100		
41	62.4	51.0	76.4
39	36.3	30.6	46.0

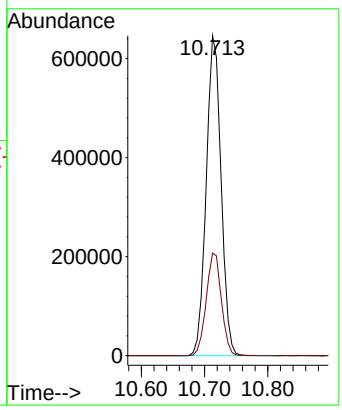




#57
1,3-Dichloropropane
Concen: 156.398 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 76 Resp: 105488

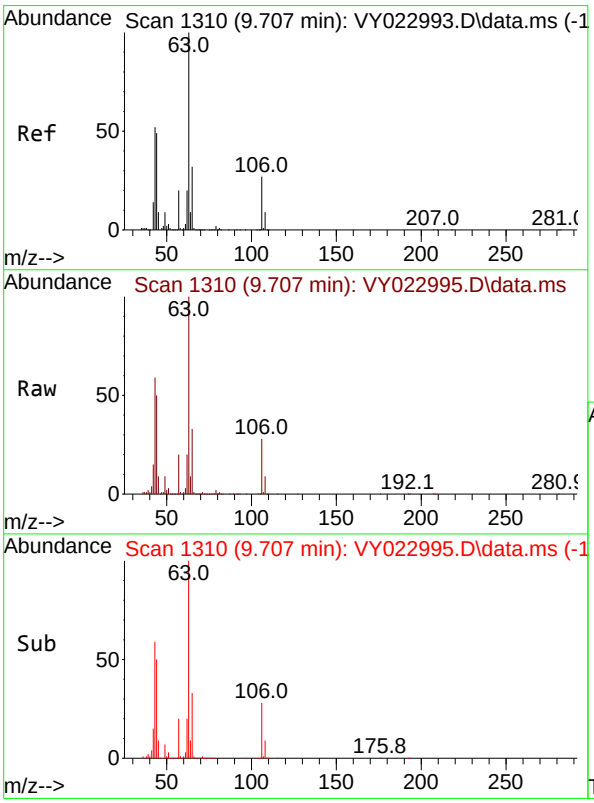
Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

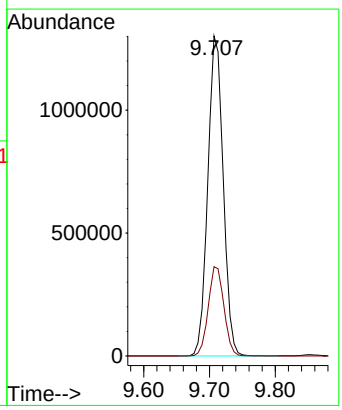
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

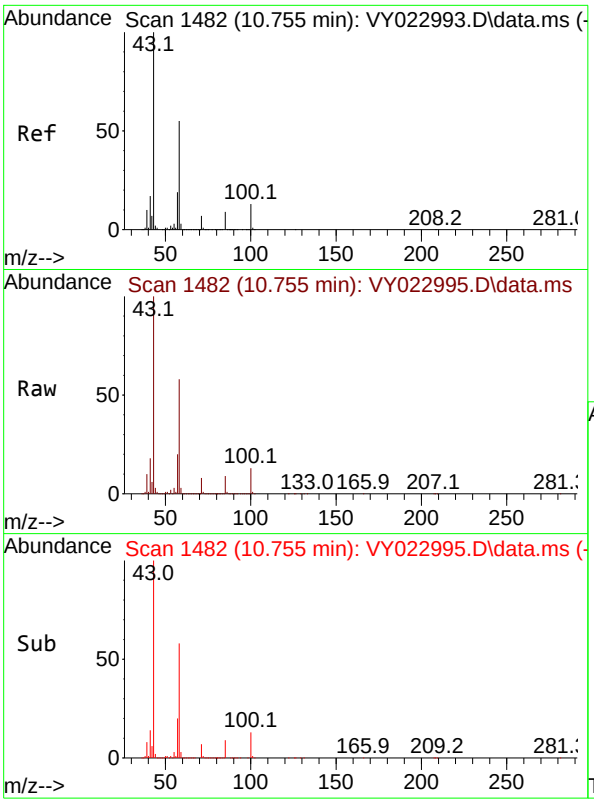


#58
2-Chloroethyl Vinyl ether
Concen: 889.686 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 63 Resp: 2122696

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.6	33.8

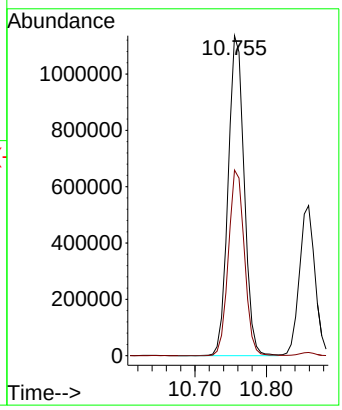




#59
2-Hexanone
Concen: 876.571 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 176349

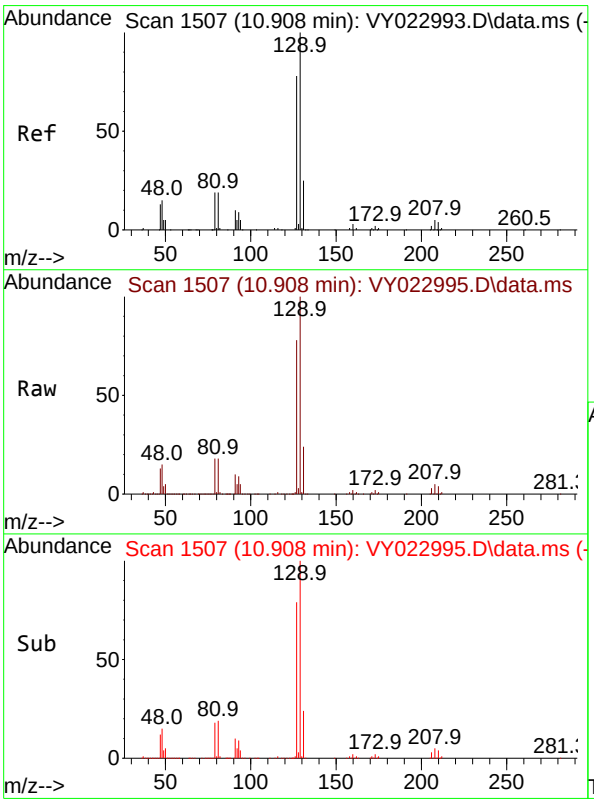
Ion	Ratio	Lower	Upper
43	100		
58	58.1	28.1	84.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

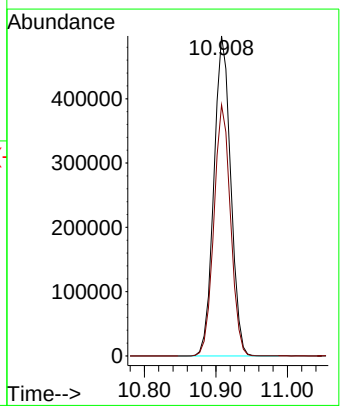
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

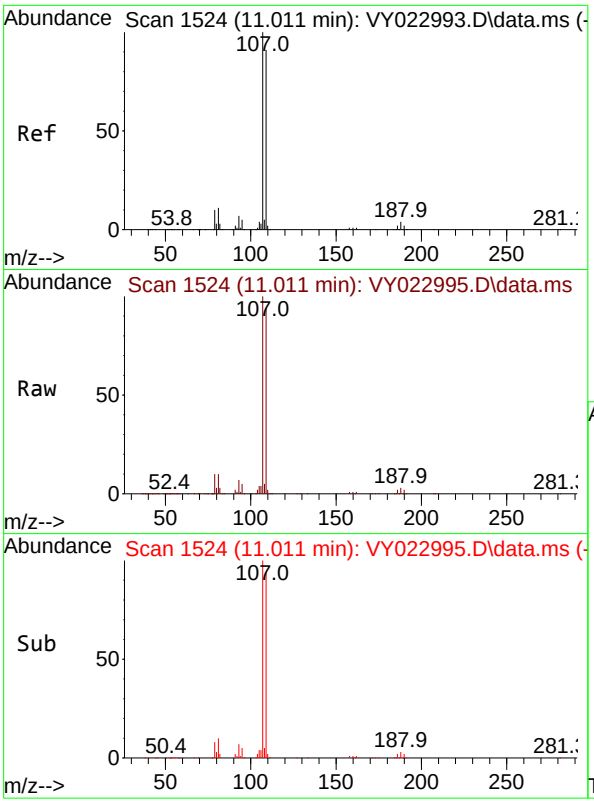


#60
Dibromochloromethane
Concen: 158.968 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:129 Resp: 812760

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.7	116.1





#61
1,2-Dibromoethane
Concen: 158.800 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

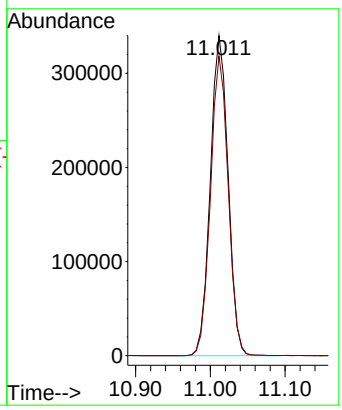
Tgt Ion:107 Resp: 56305

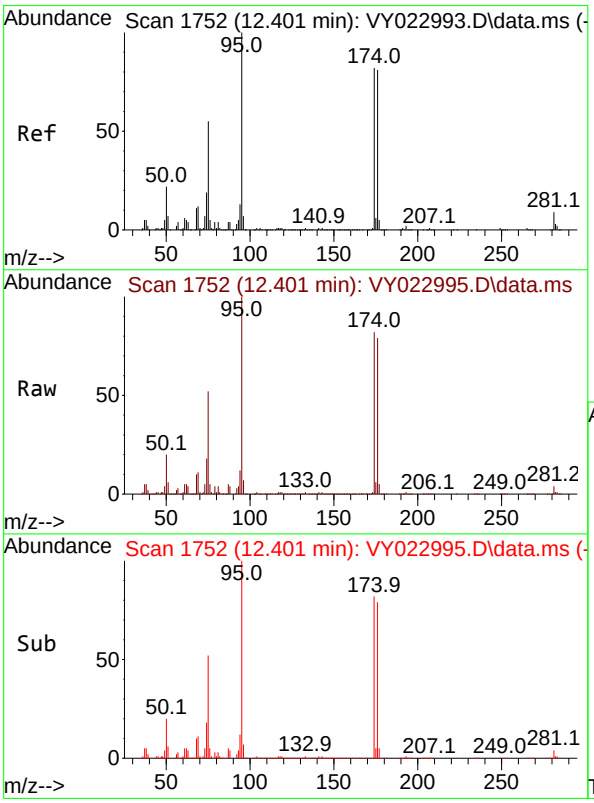
Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.1	112.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

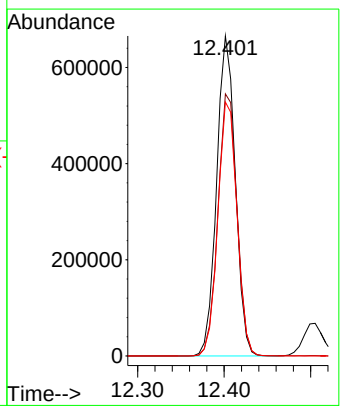


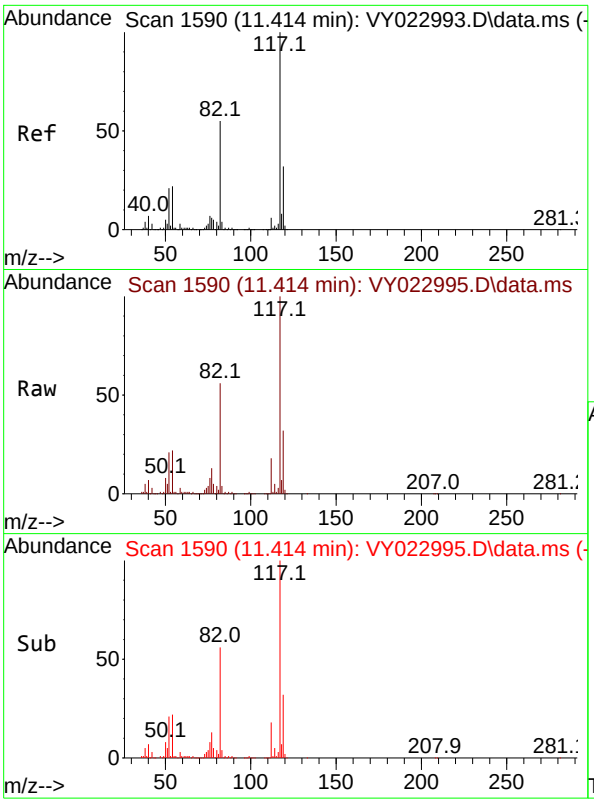


#62
4-Bromofluorobenzene
Concen: 153.805 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 95 Resp: 996296

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	170.8
176	81.2	0.0	163.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

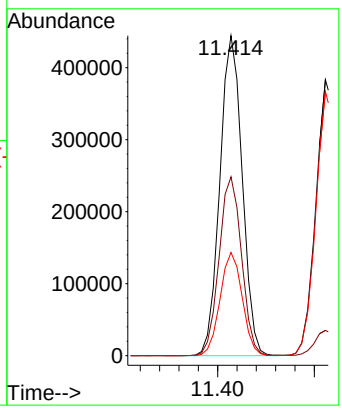
Tgt Ion:117 Resp: 71304

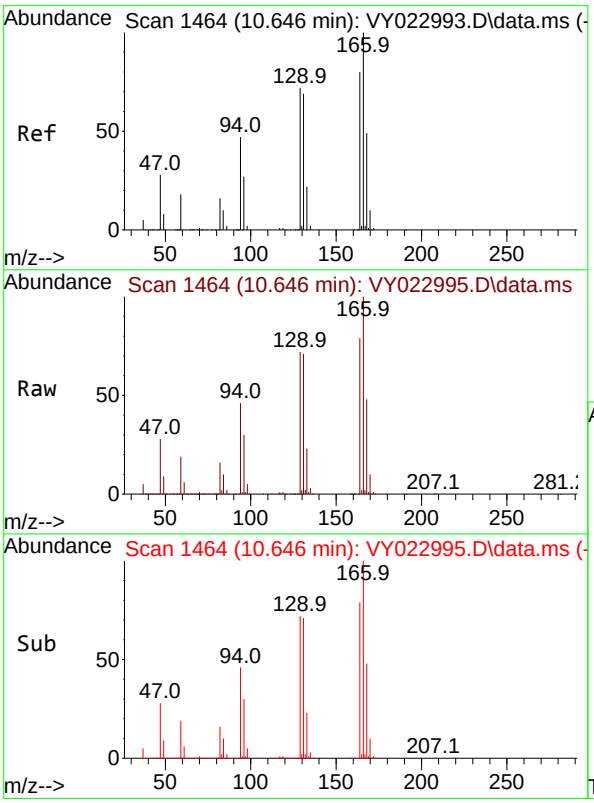
Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.3	66.5
119	32.2	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

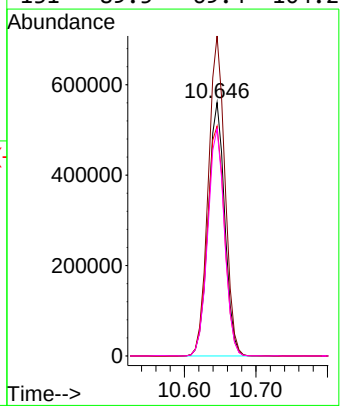


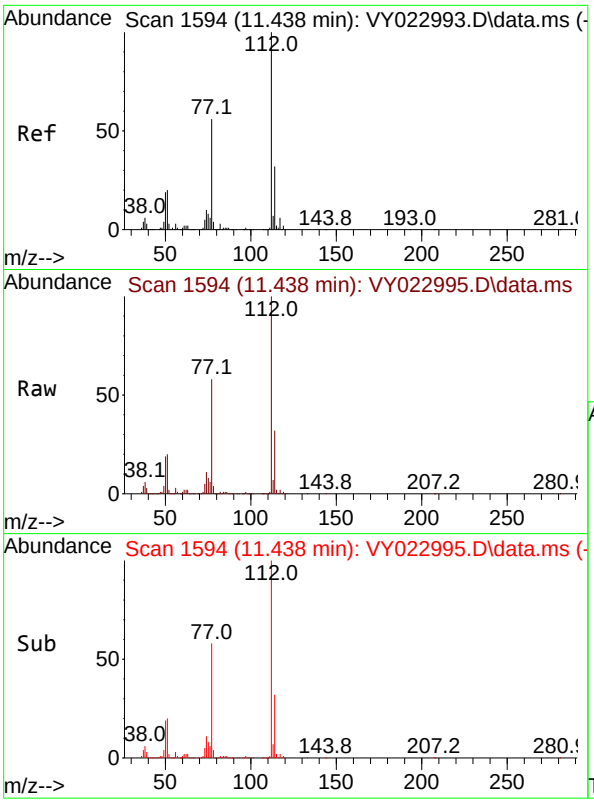


#64
Tetrachloroethene
Concen: 123.614 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:164 Resp: 900940

Ion	Ratio	Lower	Upper
164	100		
166	126.3	100.2	150.2
129	90.7	71.7	107.5
131	89.5	69.4	104.2

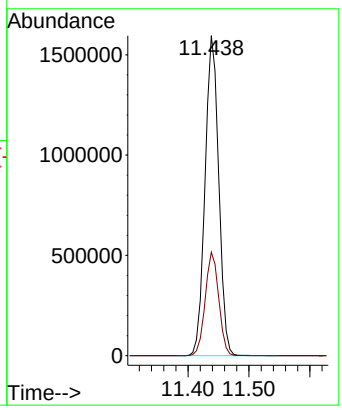




#65
Chlorobenzene
Concen: 147.805 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:112 Resp: 248695

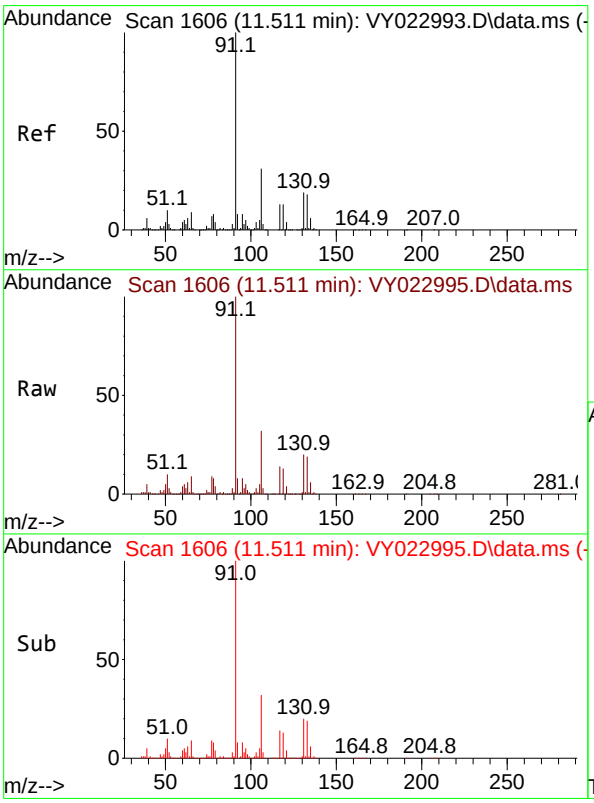
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

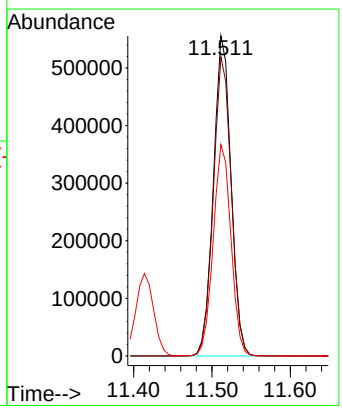
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

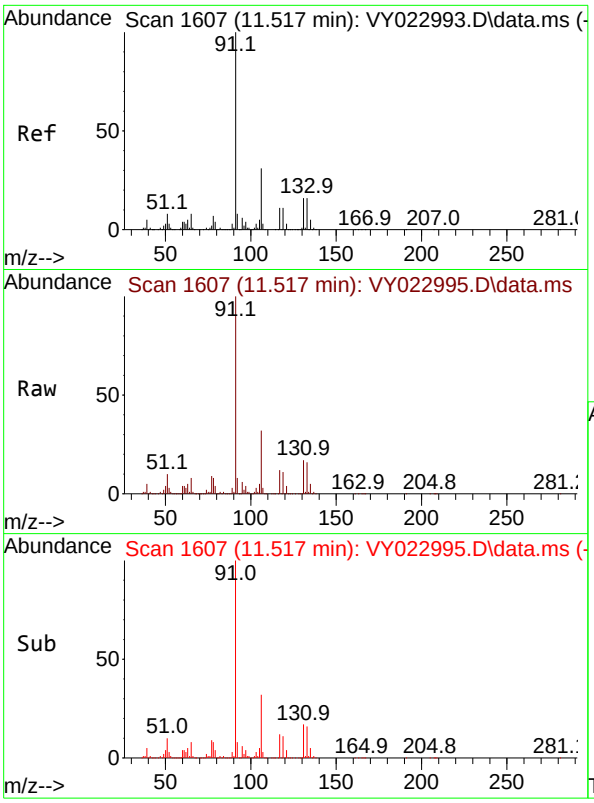


#66
1,1,1,2-Tetrachloroethane
Concen: 151.433 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:131 Resp: 869061

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.8	143.3
119	66.6	33.3	99.8





#67
Ethyl Benzene
Concen: 151.974 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

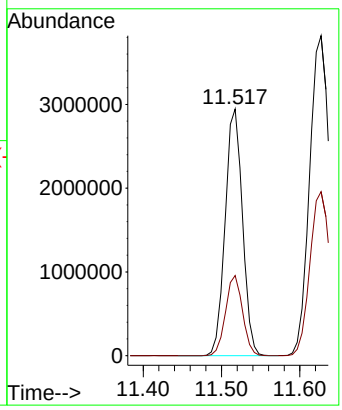
Tgt Ion: 91 Resp: 453245

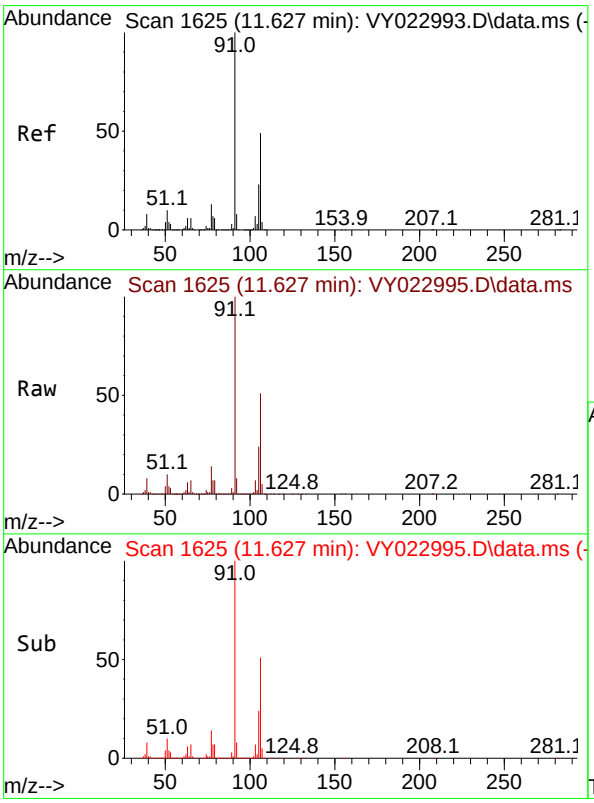
Ion	Ratio	Lower	Upper
91	100		
106	32.5	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

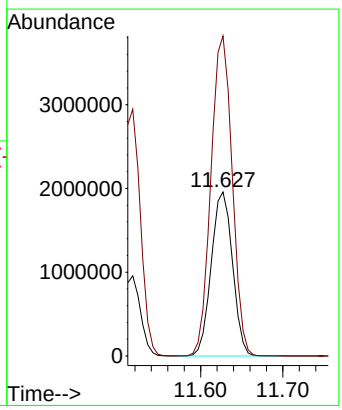


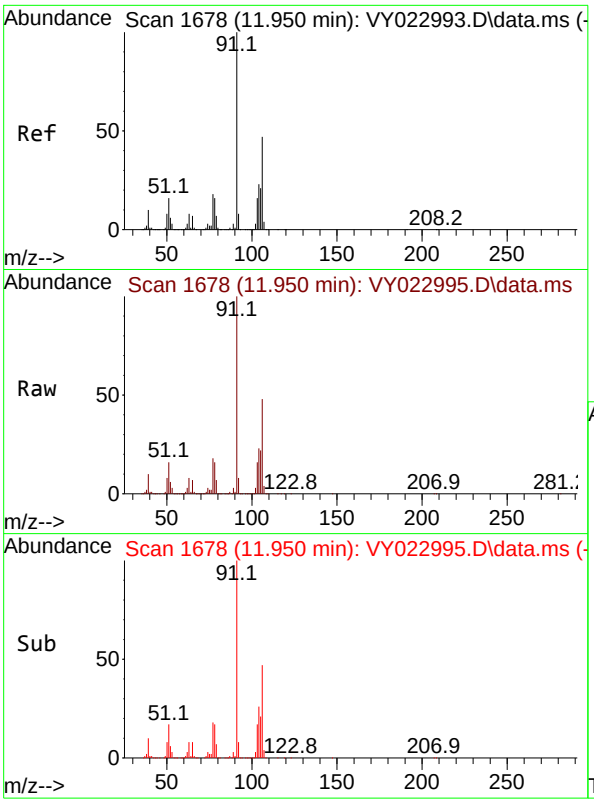


#68
m/p-Xylenes
Concen: 306.732 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:106 Resp: 3508814

Ion	Ratio	Lower	Upper
106	100		
91	195.8	159.8	239.8

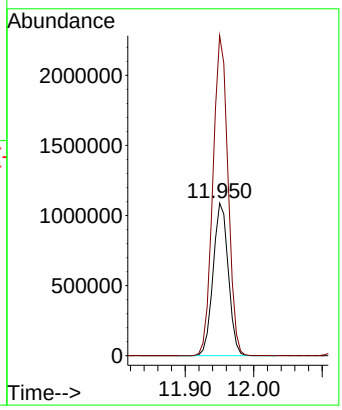




#69
o-Xylene
Concen: 157.335 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:106 Resp: 167030

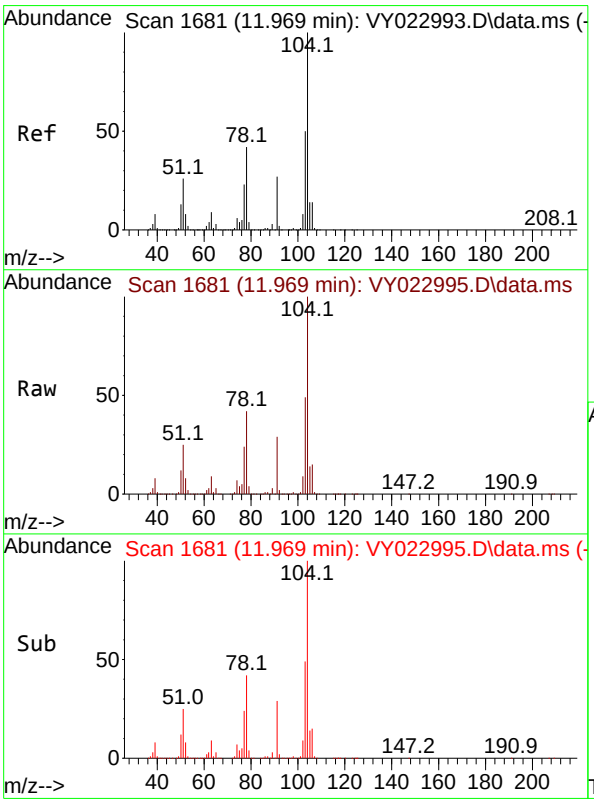
Ion	Ratio	Lower	Upper
106	100		
91	208.9	106.3	318.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

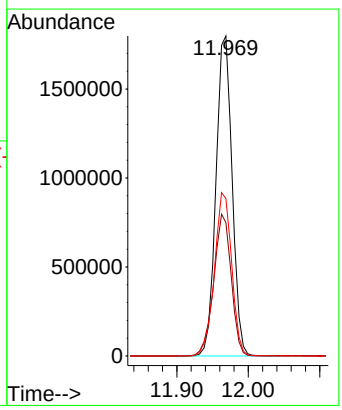
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

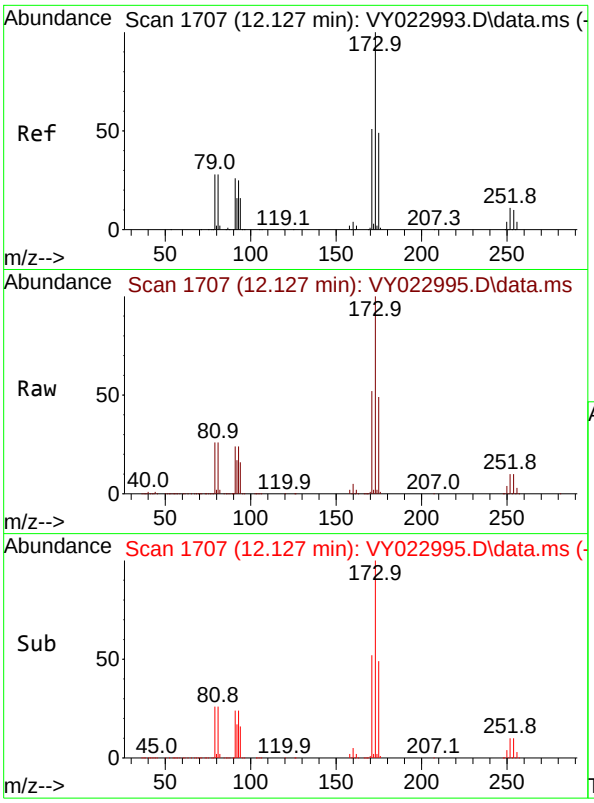


#70
Styrene
Concen: 161.930 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:104 Resp: 2815907

Ion	Ratio	Lower	Upper
104	100		
78	48.0	39.0	58.6
103	54.6	43.7	65.5

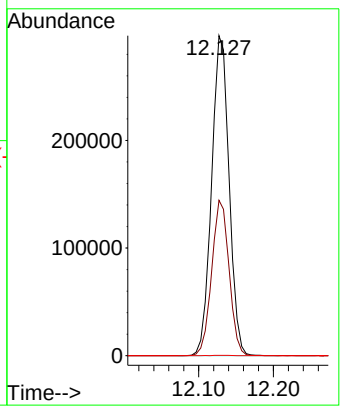




#71
Bromoform
Concen: 165.606 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:173 Resp: 48248

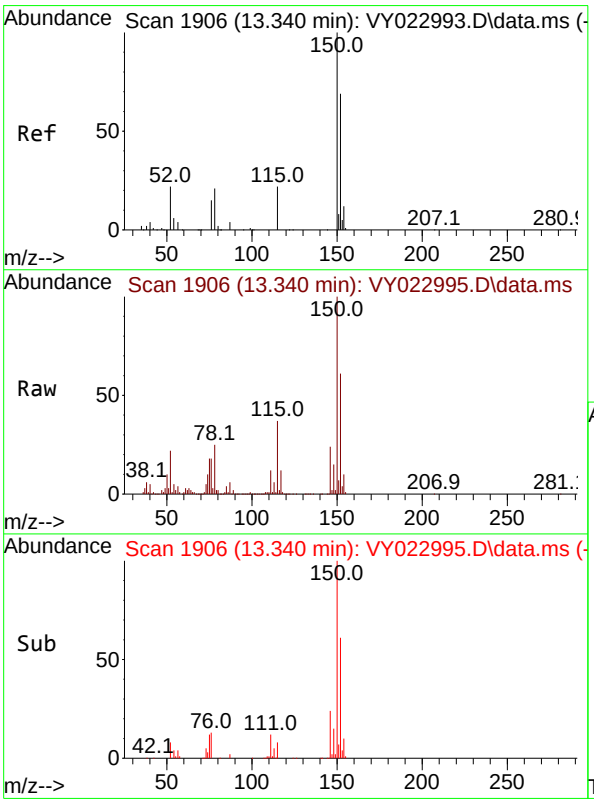
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

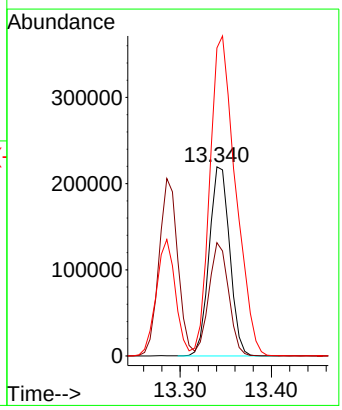
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

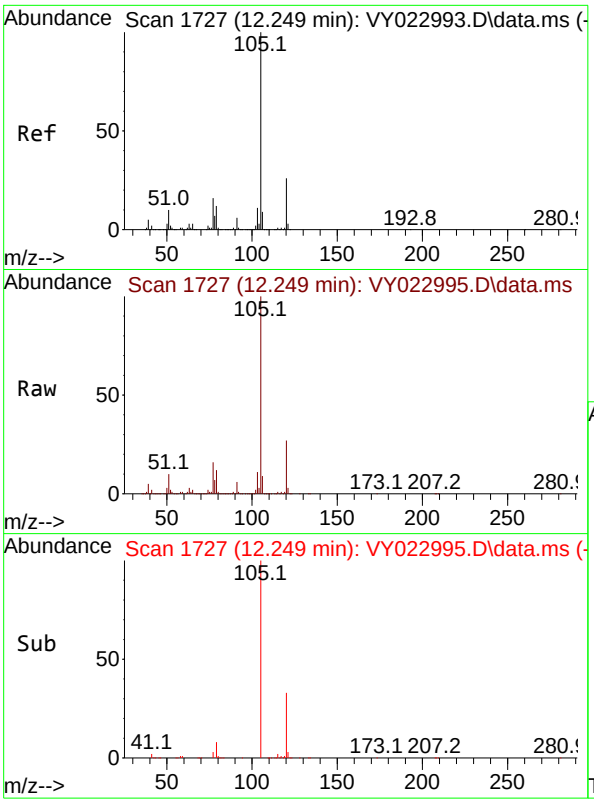


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:152 Resp: 341818

Ion	Ratio	Lower	Upper
152	100		
115	57.5	29.4	88.2
150	212.4	0.0	350.0

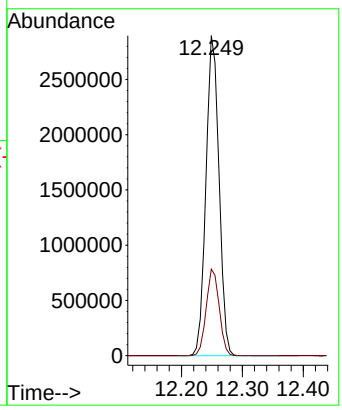




#73
Isopropylbenzene
Concen: 148.835 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:105 Resp: 431325

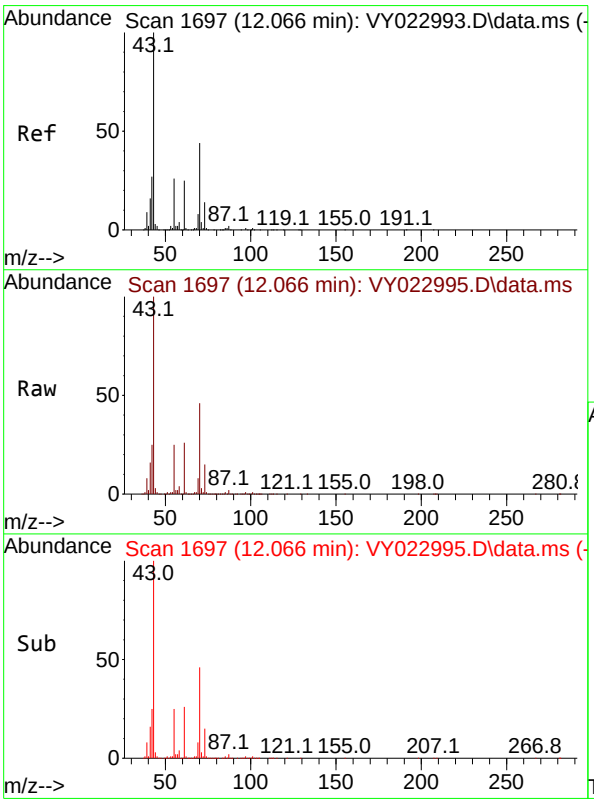
Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

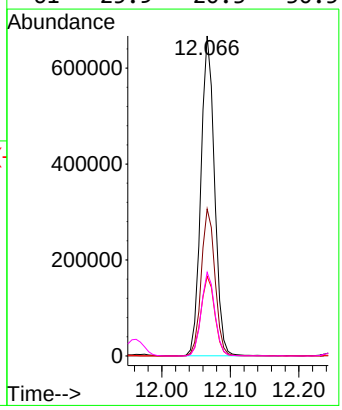
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

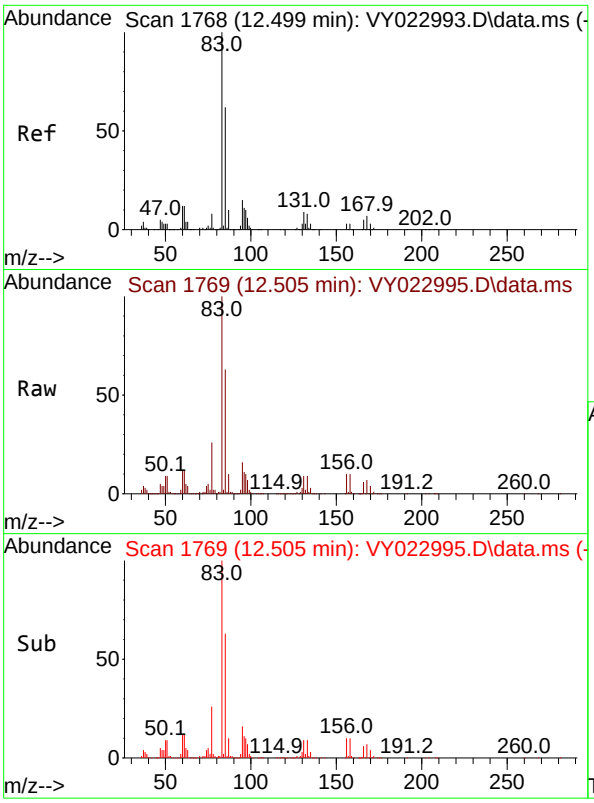


#74
N-amyl acetate
Concen: 169.687 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 927122

Ion	Ratio	Lower	Upper
43	100		
70	46.1	36.2	54.2
55	25.2	20.9	31.3
61	25.9	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 163.959 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

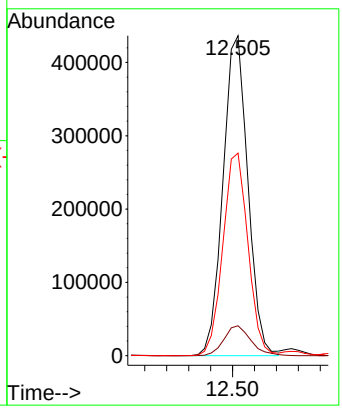
Tgt Ion: 83 Resp: 68761

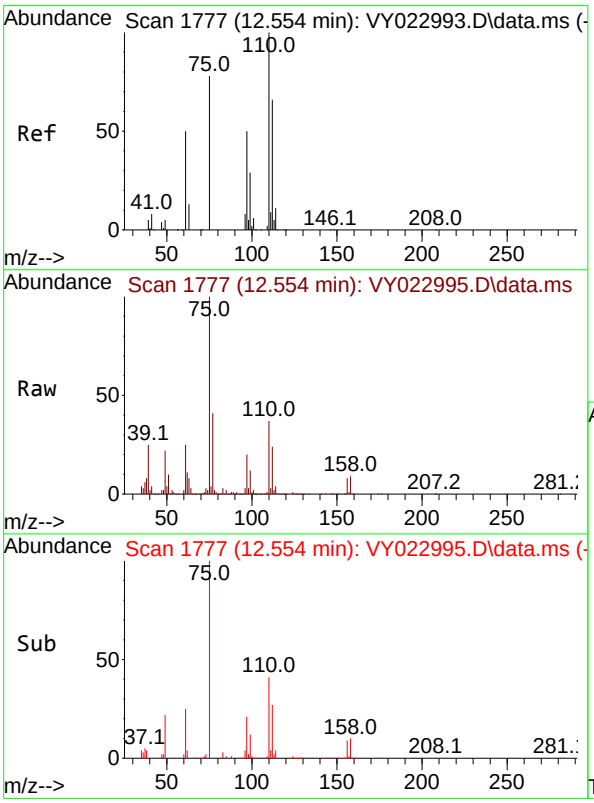
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.0	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

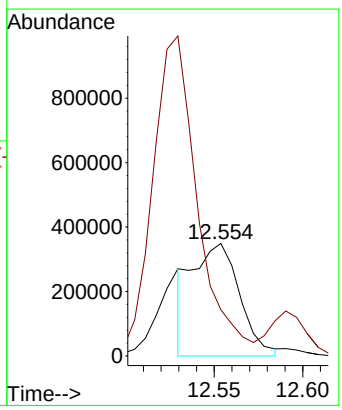


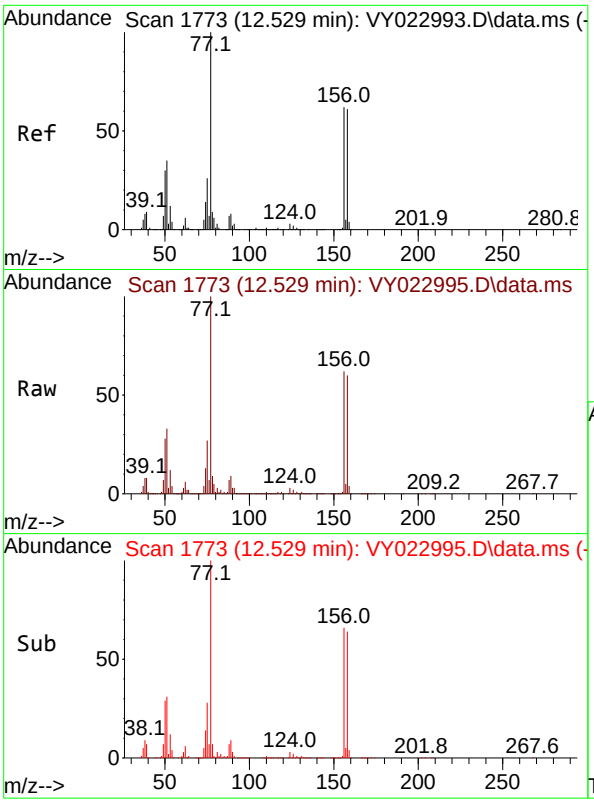


#76
1,2,3-Trichloropropane
Concen: 150.814 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 648799

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

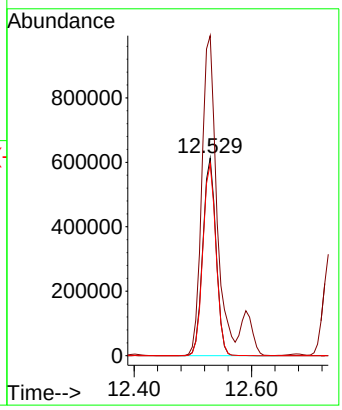




#77
Bromobenzene
Concen: 152.042 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:156 Resp: 95564

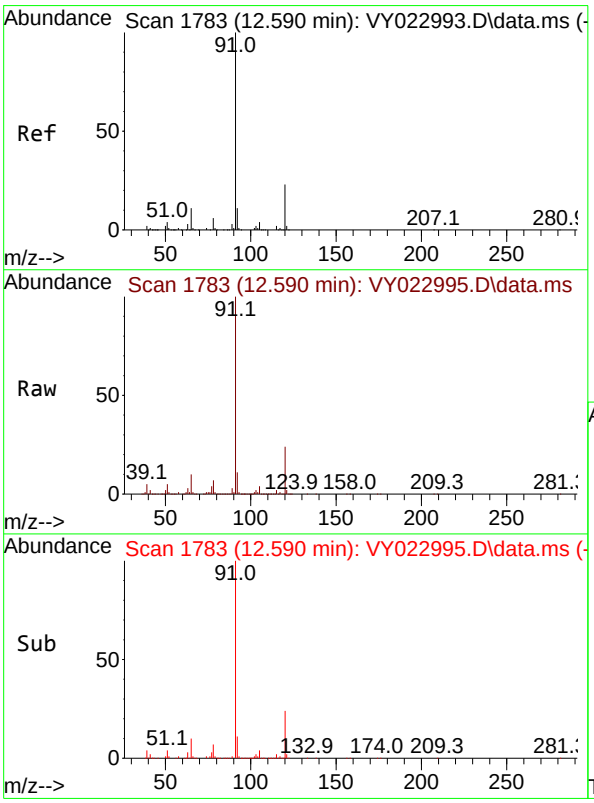
Ion	Ratio	Lower	Upper
156	100		
77	182.7	92.0	276.1
158	97.3	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

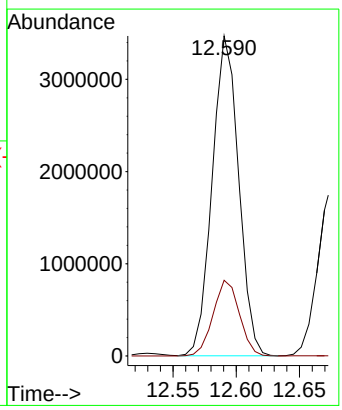
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

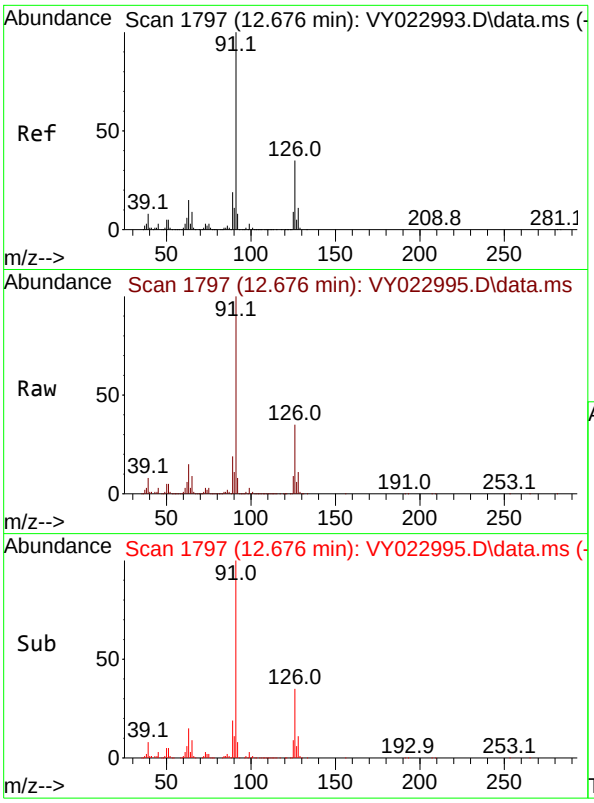


#78
n-propylbenzene
Concen: 146.282 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 91 Resp: 5048339

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.3	33.8





#79
2-Chlorotoluene
Concen: 147.762 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

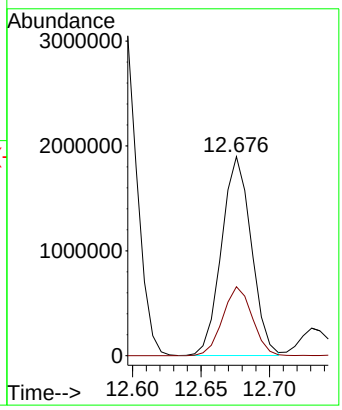
Tgt Ion: 91 Resp: 286799

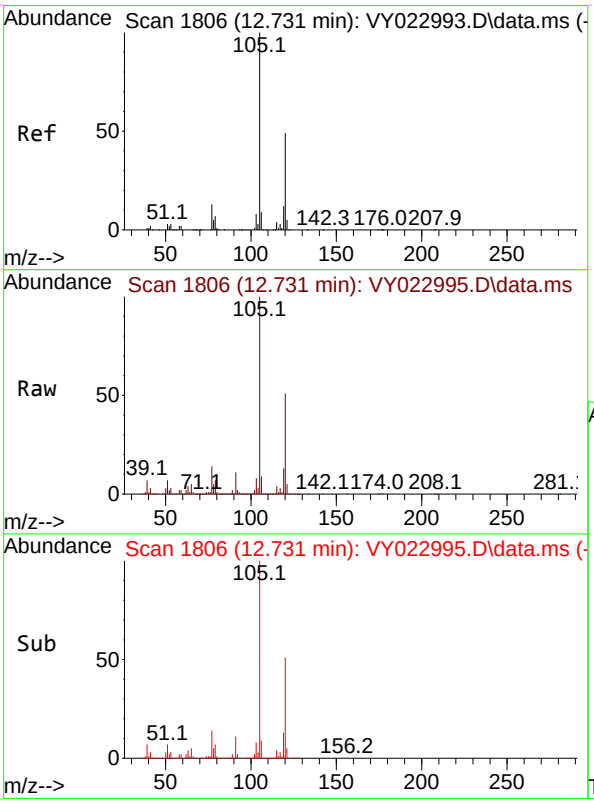
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

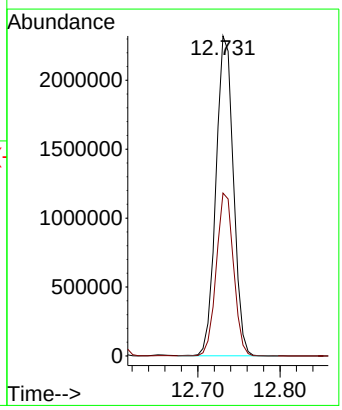


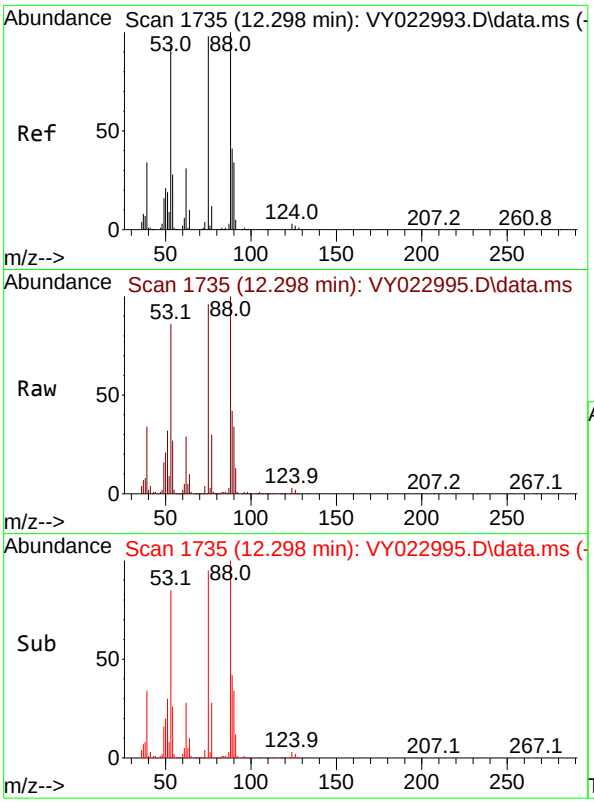


#80
1,3,5-Trimethylbenzene
Concen: 149.755 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:105 Resp: 3422881

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.6	73.8

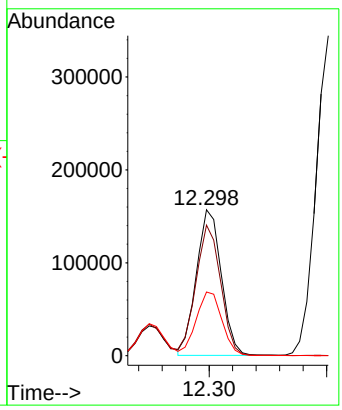




#81
trans-1,4-Dichloro-2-butene
Concen: 161.650 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 23116

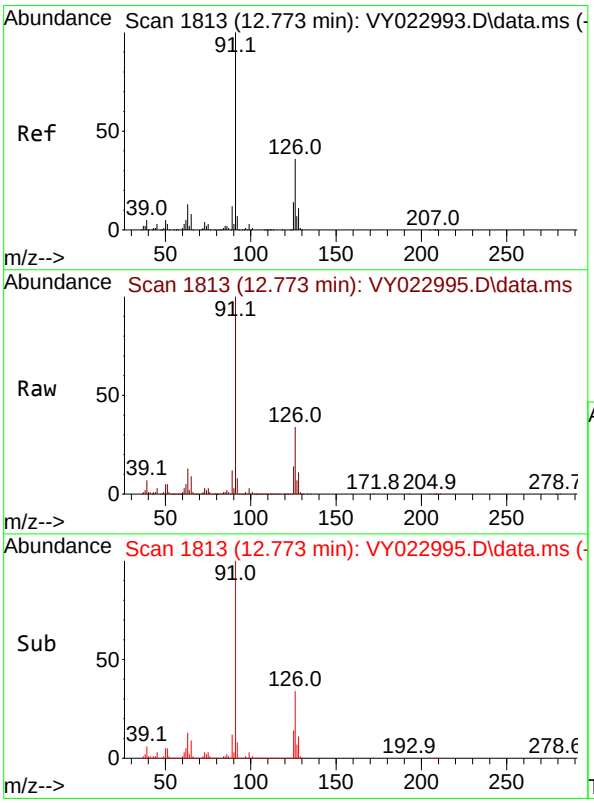
Ion	Ratio	Lower	Upper
75	100		
53	89.1	76.1	114.1
89	45.5	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

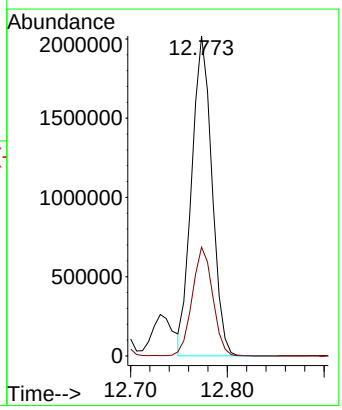
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

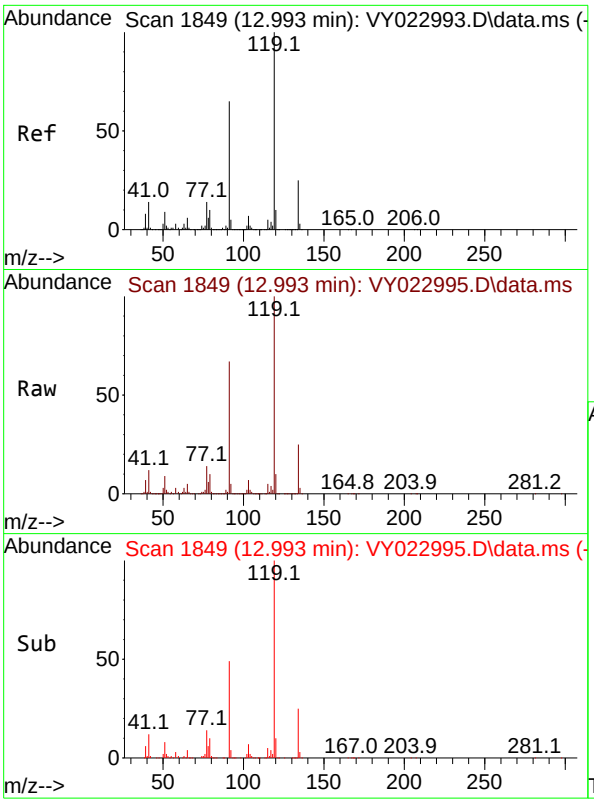


#82
4-Chlorotoluene
Concen: 149.351 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 91 Resp: 2923682

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.2	51.5





#83
tert-Butylbenzene
Concen: 149.676 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

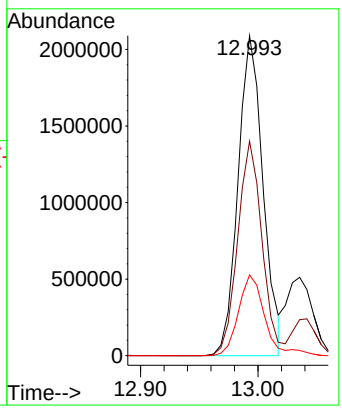
Tgt Ion:119 Resp: 309022

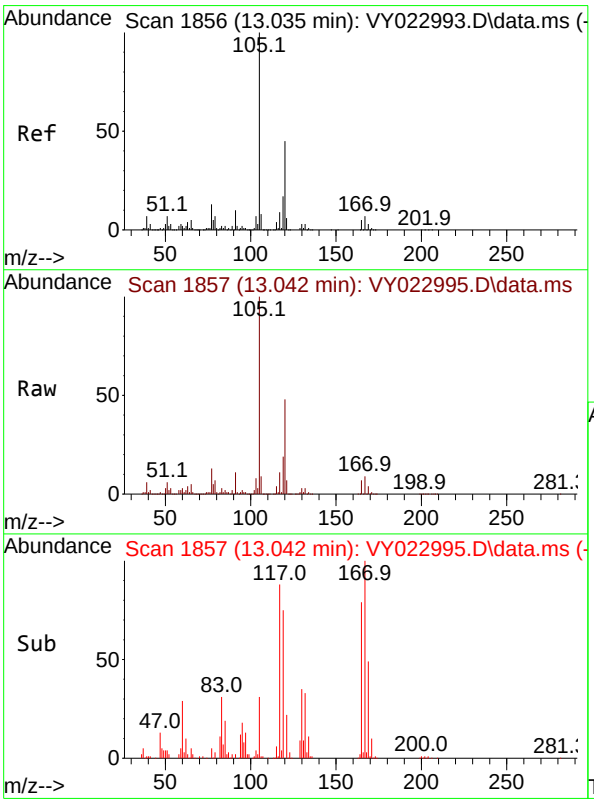
Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.0	96.2
134	26.6	12.6	37.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

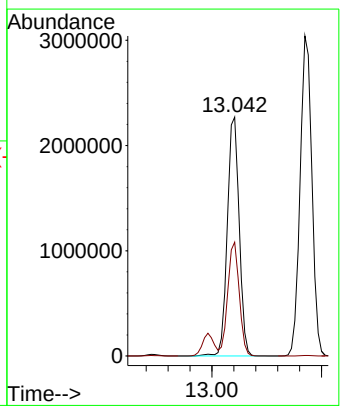


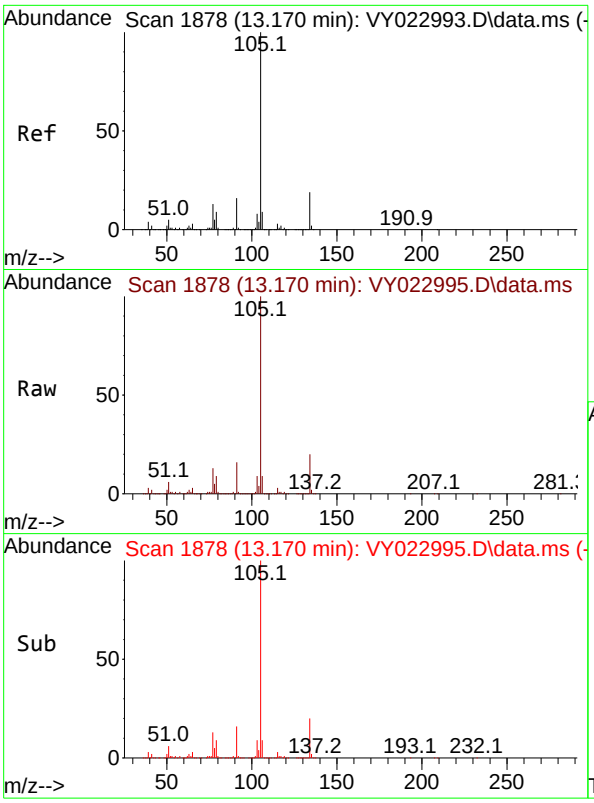


#84
1,2,4-Trimethylbenzene
Concen: 152.237 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:105 Resp: 3425217

Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8

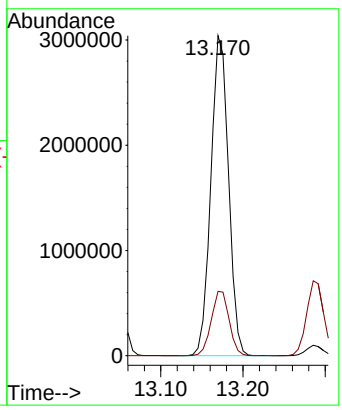




#85
sec-Butylbenzene
Concen: 146.212 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:105 Resp: 452378

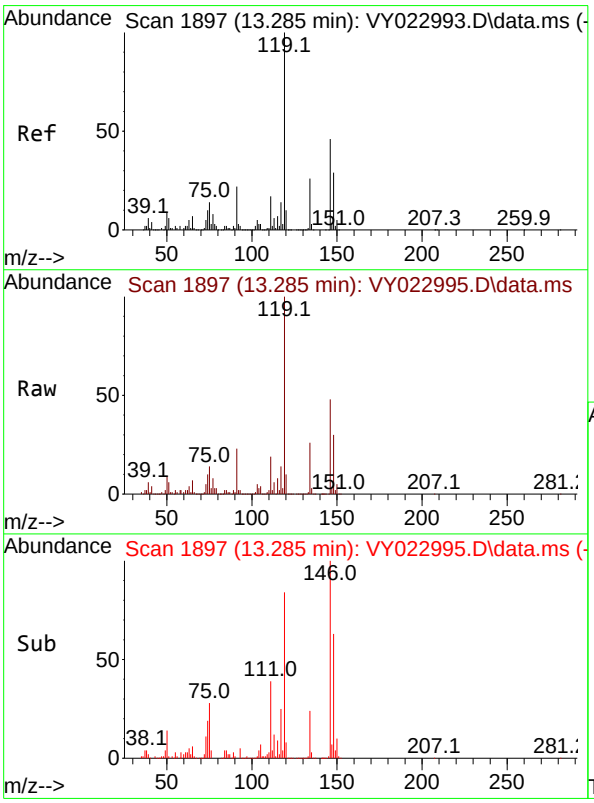
Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

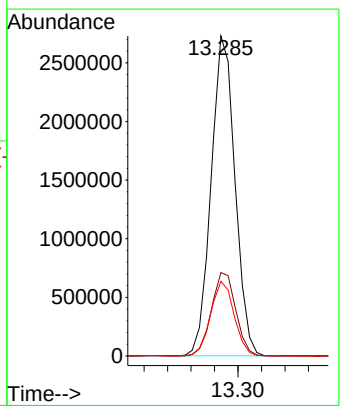
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

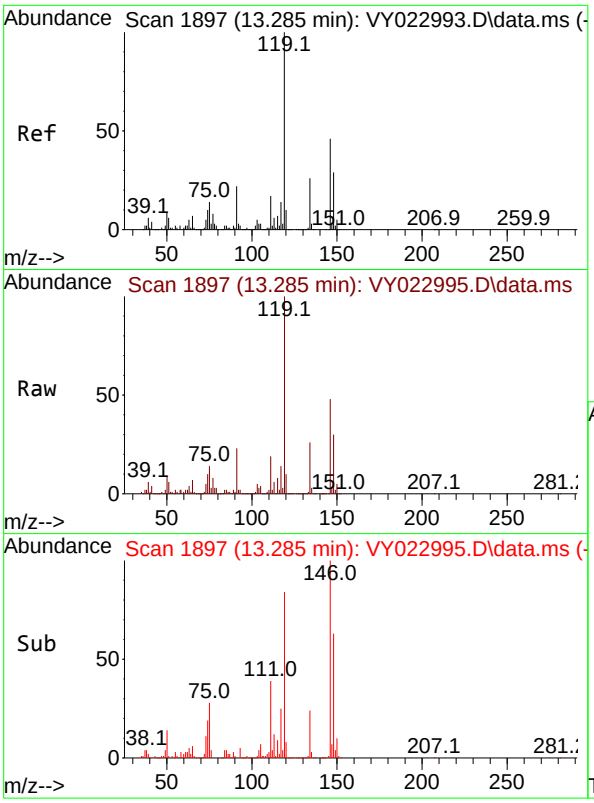


#86
p-Isopropyltoluene
Concen: 153.178 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:119 Resp: 3849059

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.1	39.1
91	23.1	11.4	34.1

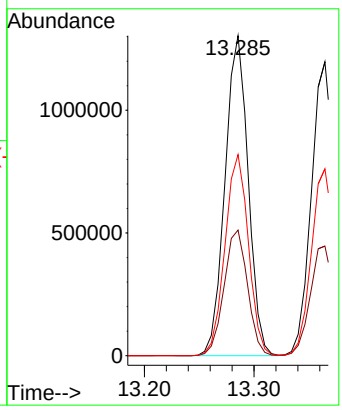




#87
1,3-Dichlorobenzene
Concen: 151.247 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:146 Resp: 191849

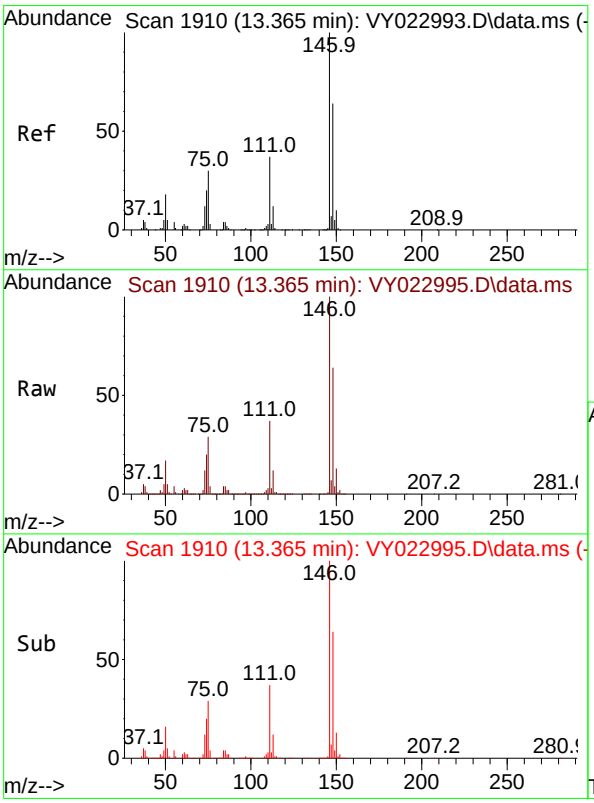
Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.8	59.3
148	63.4	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

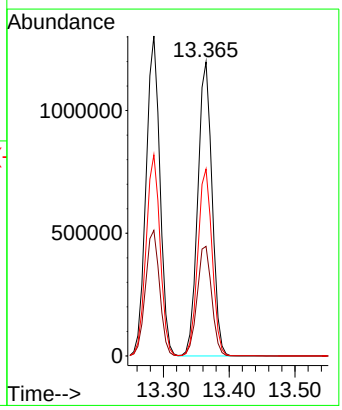
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

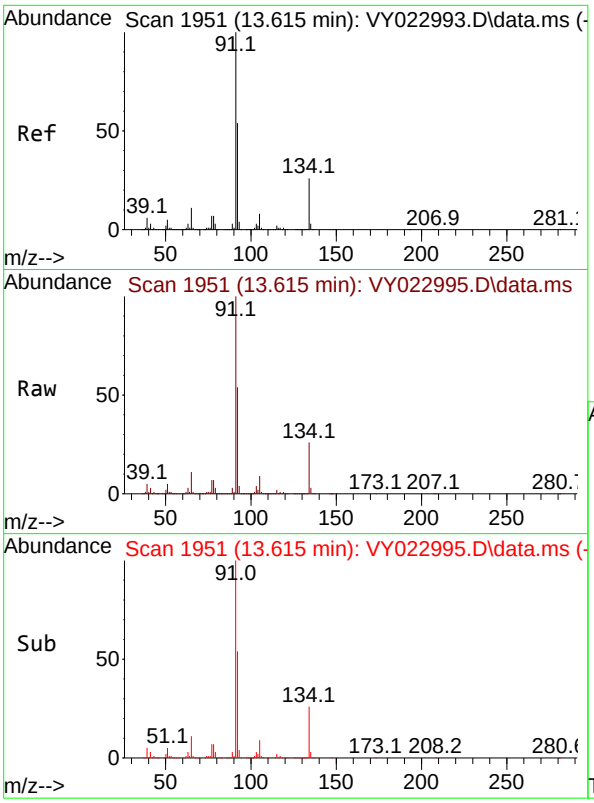


#88
1,4-Dichlorobenzene
Concen: 147.117 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:146 Resp: 1805316

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.2	57.6
148	63.6	31.9	95.5

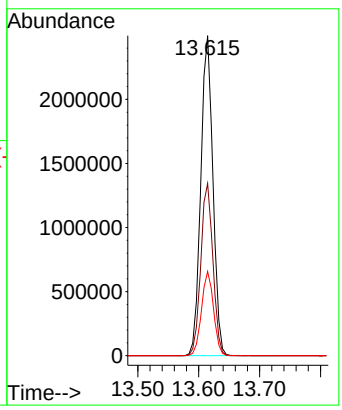




#89
n-Butylbenzene
Concen: 149.387 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 91 Resp: 346385

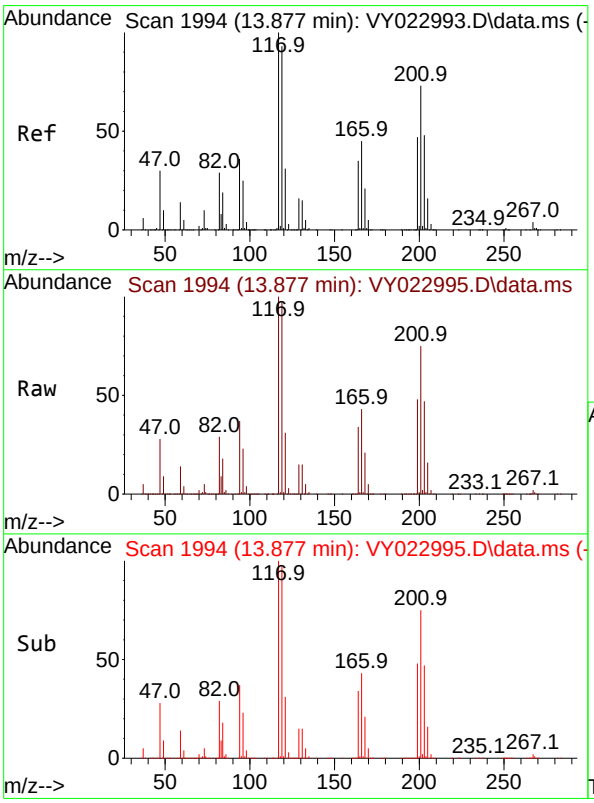
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	79.7
134	26.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

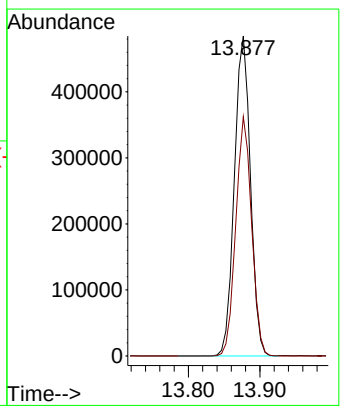
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

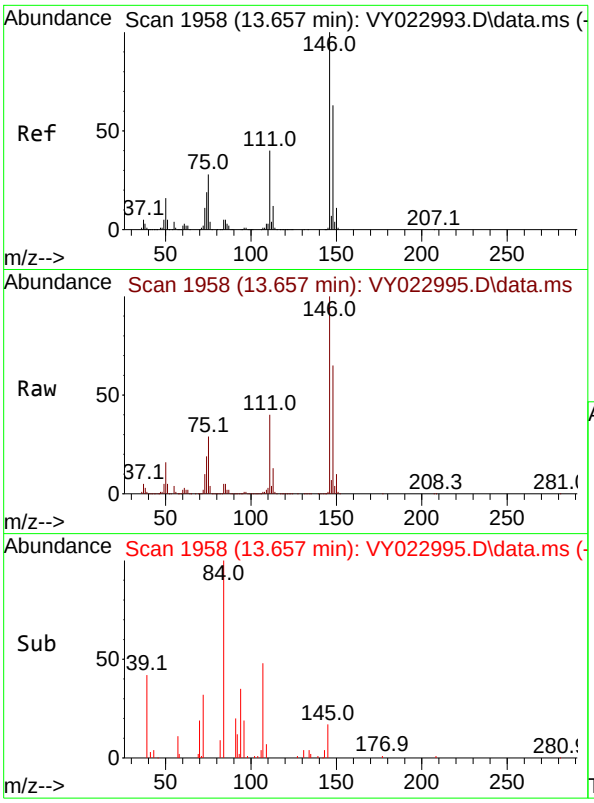


#90
Hexachloroethane
Concen: 145.277 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:117 Resp: 755795

Ion	Ratio	Lower	Upper
117	100		
201	73.8	36.1	108.5

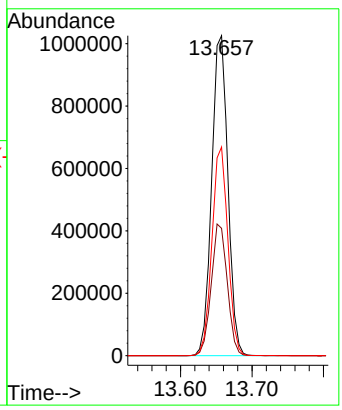




#91
1,2-Dichlorobenzene
Concen: 150.536 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:146 Resp: 161065

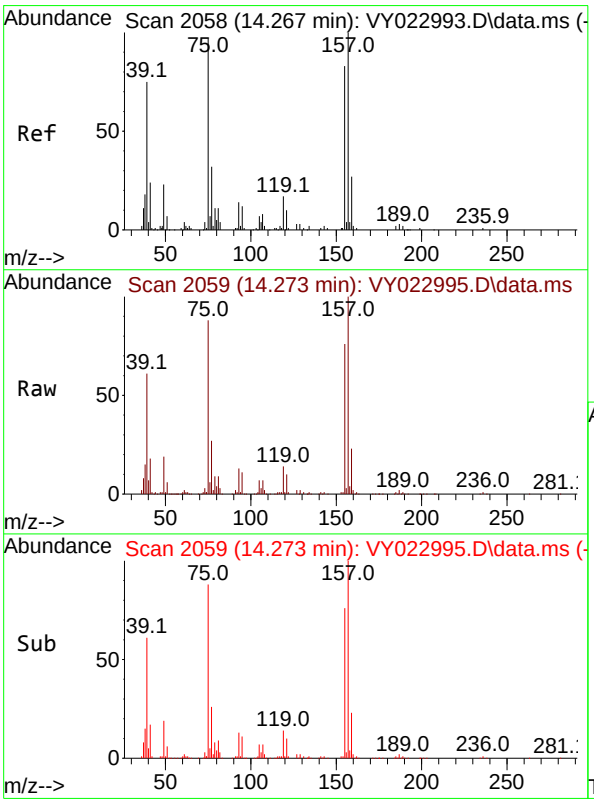
Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	64.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

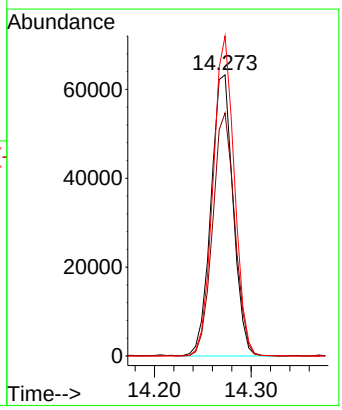
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

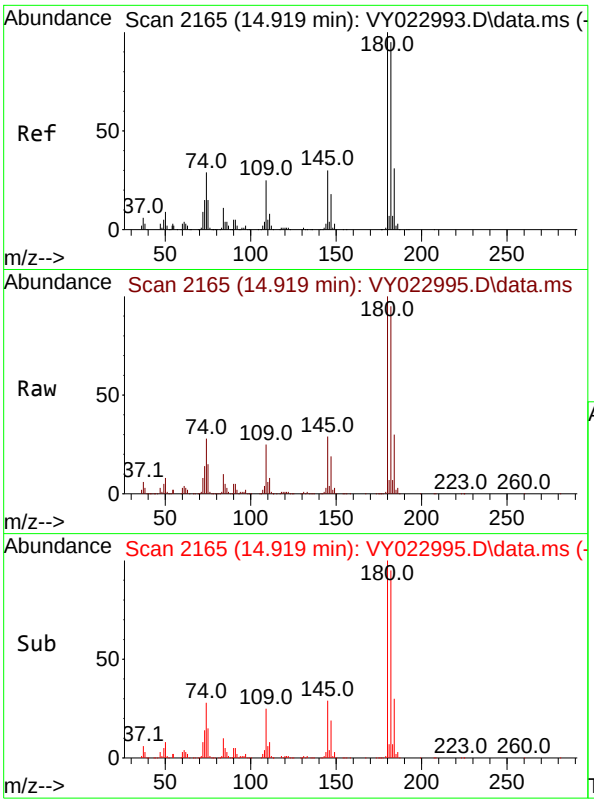


#92
1,2-Dibromo-3-Chloropropane
Concen: 161.332 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 100462

Ion	Ratio	Lower	Upper
75	100		
155	86.2	42.8	128.3
157	109.7	54.3	162.9

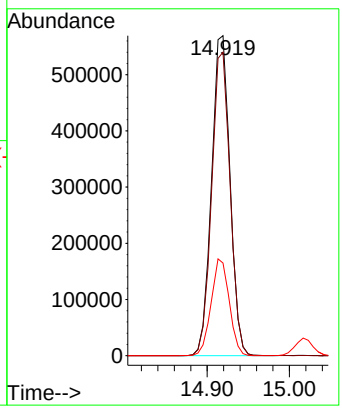




#93
1,2,4-Trichlorobenzene
Concen: 157.179 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:180 Resp: 88647

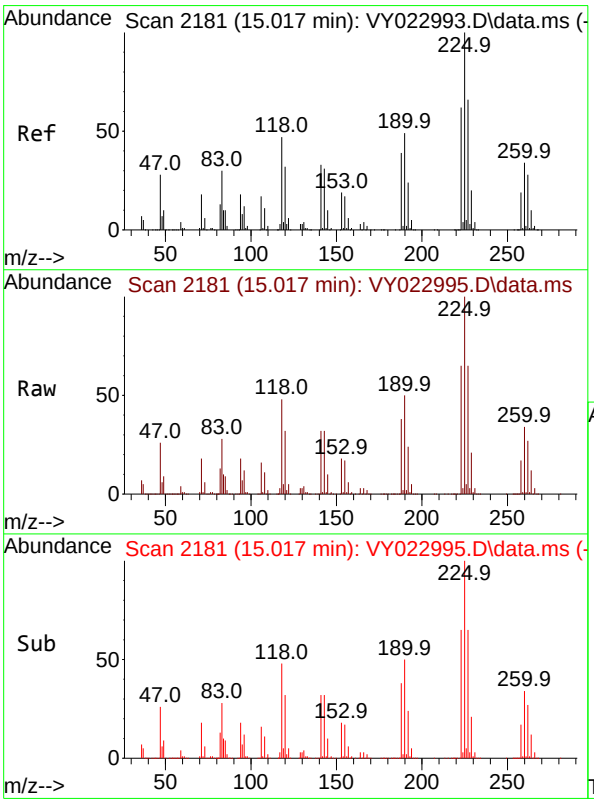
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.5	142.5
145	29.8	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

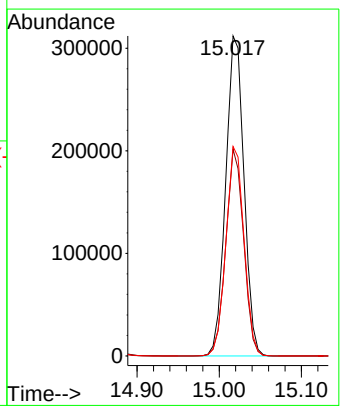
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

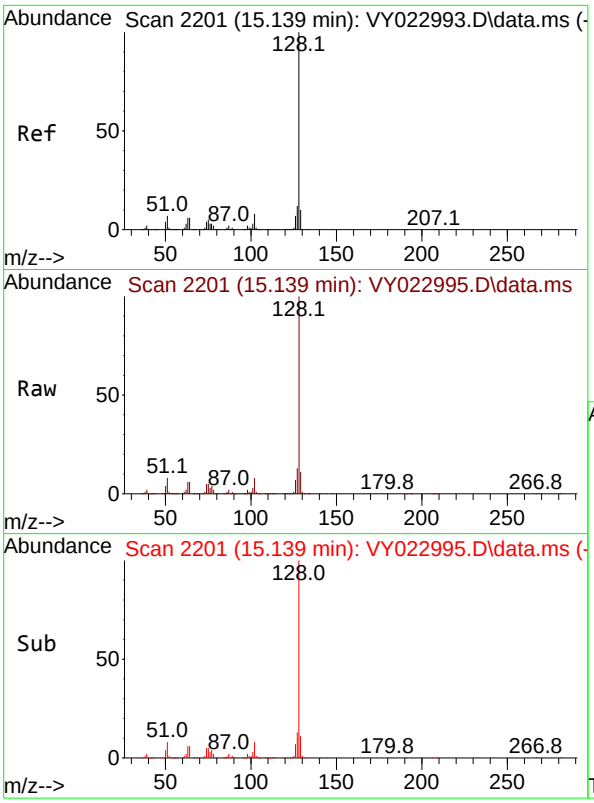


#94
Hexachlorobutadiene
Concen: 135.733 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:225 Resp: 482621

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.0
227	65.0	32.1	96.5

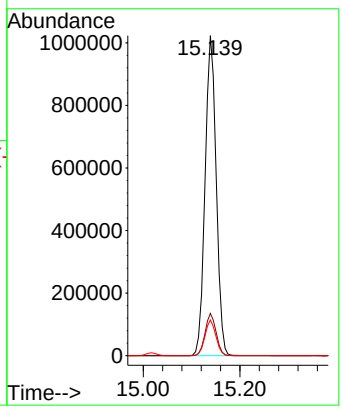




#95
Naphthalene
Concen: 180.758 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:128 Resp: 163511

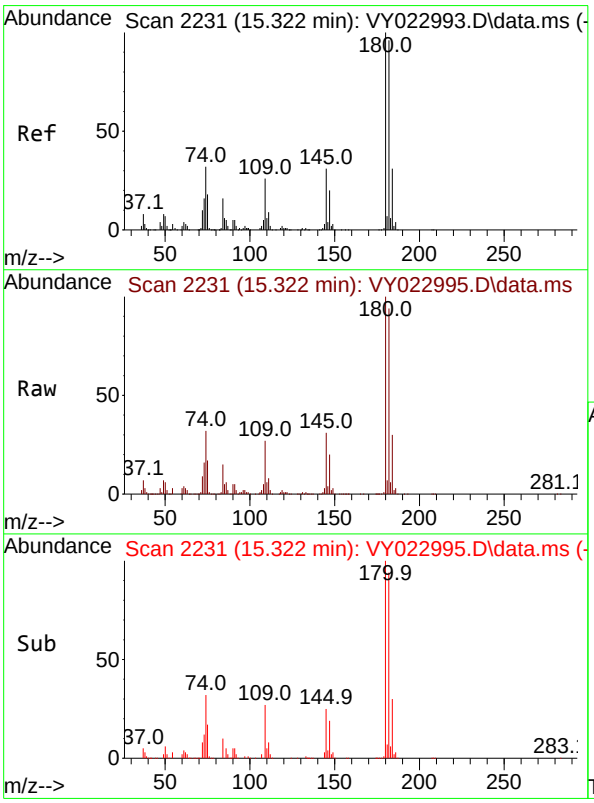
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.9	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

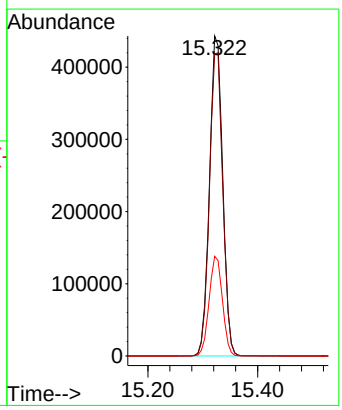
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 158.643 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:180 Resp: 738766

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	31.4	15.8	47.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	453518	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	746741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	626160	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	299370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	226218	49.273	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.540%			
35) Dibromofluoromethane	7.634	113	223521	47.188	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.380%			
50) Toluene-d8	10.103	98	896545	47.728	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.460%			
62) 4-Bromofluorobenzene	12.401	95	281129	47.544	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	175922	45.684	ug/l	97
3) Chloromethane	2.068	50	324675	49.585	ug/l	99
4) Vinyl Chloride	2.202	62	415835	50.127	ug/l	99
5) Bromomethane	2.592	94	295948	49.431	ug/l	97
6) Chloroethane	2.732	64	278774	50.317	ug/l	97
7) Trichlorofluoromethane	3.056	101	465046	48.293	ug/l	99
8) Diethyl Ether	3.452	74	118735	47.110	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	245333	48.497	ug/l	99
10) Methyl Iodide	4.000	142	241459	45.946	ug/l	99
11) Tert butyl alcohol	4.848	59	73748	265.607	ug/l	98
12) 1,1-Dichloroethene	3.787	96	234490	48.659	ug/l	98
13) Acrolein	3.647	56	17160	131.522	ug/l	96
14) Allyl chloride	4.385	41	363225	49.474	ug/l	99
15) Acrylonitrile	5.049	53	244867	256.502	ug/l	99
16) Acetone	3.866	43	181785	218.434	ug/l	99
17) Carbon Disulfide	4.104	76	701041	47.999	ug/l	100
18) Methyl Acetate	4.378	43	144987	51.459	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	583103	50.446	ug/l	99
20) Methylene Chloride	4.616	84	289542	49.355	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	263910	49.197	ug/l	95
22) Diisopropyl ether	6.018	45	794156	50.987	ug/l	100
23) Vinyl Acetate	5.957	43	2045811	260.680	ug/l	100
24) 1,1-Dichloroethane	5.915	63	486435	49.723	ug/l	99
25) 2-Butanone	6.890	43	296567	248.403	ug/l	99
26) 2,2-Dichloropropane	6.884	77	411291	47.970	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	307144	49.681	ug/l	99
28) Bromochloromethane	7.244	49	190788	50.281	ug/l	97
29) Tetrahydrofuran	7.256	42	198327	262.377	ug/l	98
30) Chloroform	7.421	83	485939	49.239	ug/l	99
31) Cyclohexane	7.701	56	436690	47.772	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	433361	48.396	ug/l	98
36) 1,1-Dichloropropene	7.835	75	359563	48.190	ug/l	99
37) Ethyl Acetate	6.976	43	136167	49.138	ug/l	99
38) Carbon Tetrachloride	7.817	117	385805	47.594	ug/l	98
39) Methylcyclohexane	9.109	83	480021	49.705	ug/l	99
40) Benzene	8.079	78	1095313	48.756	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	77017m	51.019	ug/l		
42) 1,2-Dichloroethane	8.158	62	273227	48.885	ug/l		99
43) Isopropyl Acetate	8.195	43	282687	51.356	ug/l	#	87
44) Trichloroethene	8.865	130	271109	46.984	ug/l		99
45) 1,2-Dichloropropane	9.140	63	254972	48.601	ug/l		97
46) Dibromomethane	9.225	93	130449	48.105	ug/l		98
47) Bromodichloromethane	9.420	83	365153	48.715	ug/l		98
48) Methyl methacrylate	9.219	41	137807	51.856	ug/l		99
49) 1,4-Dioxane	9.219	88	29701	1039.077	ug/l		90
51) 4-Methyl-2-Pentanone	9.993	43	736605	263.650	ug/l		100
52) Toluene	10.170	92	689665	49.377	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	320495	49.810	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	379652	48.953	ug/l		97
55) 1,1,2-Trichloroethane	10.566	97	174146	48.860	ug/l		98
56) Ethyl methacrylate	10.438	69	233062	52.383	ug/l		99
57) 1,3-Dichloropropane	10.713	76	305501	49.619	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	555885	255.234	ug/l		99
59) 2-Hexanone	10.755	43	480633	261.717	ug/l		100
60) Dibromochloromethane	10.908	129	228677	48.997	ug/l		100
61) 1,2-Dibromoethane	11.011	107	160833	49.692	ug/l		99
64) Tetrachloroethene	10.646	164	293758	45.898	ug/l		97
65) Chlorobenzene	11.438	112	717316	48.547	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	243320	48.281	ug/l		100
67) Ethyl Benzene	11.517	91	1318781	50.355	ug/l		100
68) m/p-Xylenes	11.627	106	1010405	100.584	ug/l		100
69) o-Xylene	11.950	106	473728	50.815	ug/l		99
70) Styrene	11.969	104	777326	50.903	ug/l		100
71) Bromoform	12.127	173	127473	49.825	ug/l	#	98
73) Isopropylbenzene	12.249	105	1251340	49.302	ug/l		100
74) N-amyl acetate	12.066	43	250015	52.247	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	183595	49.985	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	180298m	48.332	ug/l		
77) Bromobenzene	12.529	156	264397	48.030	ug/l		99
78) n-propylbenzene	12.590	91	1513140	50.062	ug/l		100
79) 2-Chlorotoluene	12.676	91	839059	49.359	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1003448	50.127	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	58179	46.452	ug/l		99
82) 4-Chlorotoluene	12.773	91	844578	49.261	ug/l		100
83) tert-Butylbenzene	12.993	119	916326	50.676	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	992142	50.349	ug/l		100
85) sec-Butylbenzene	13.170	105	1377425	50.832	ug/l		100
86) p-Isopropyltoluene	13.285	119	1135708	51.605	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	544171	48.983	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	520095	48.393	ug/l		100
89) n-Butylbenzene	13.615	91	1047169	51.565	ug/l		100
90) Hexachloroethane	13.877	117	225252	49.436	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	452157	48.252	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	27119	49.725	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	241340	48.859	ug/l		99
94) Hexachlorobutadiene	15.017	225	147040	47.217	ug/l		100
95) Naphthalene	15.139	128	404535	51.062	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	199538	48.924	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

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

ICAL Form

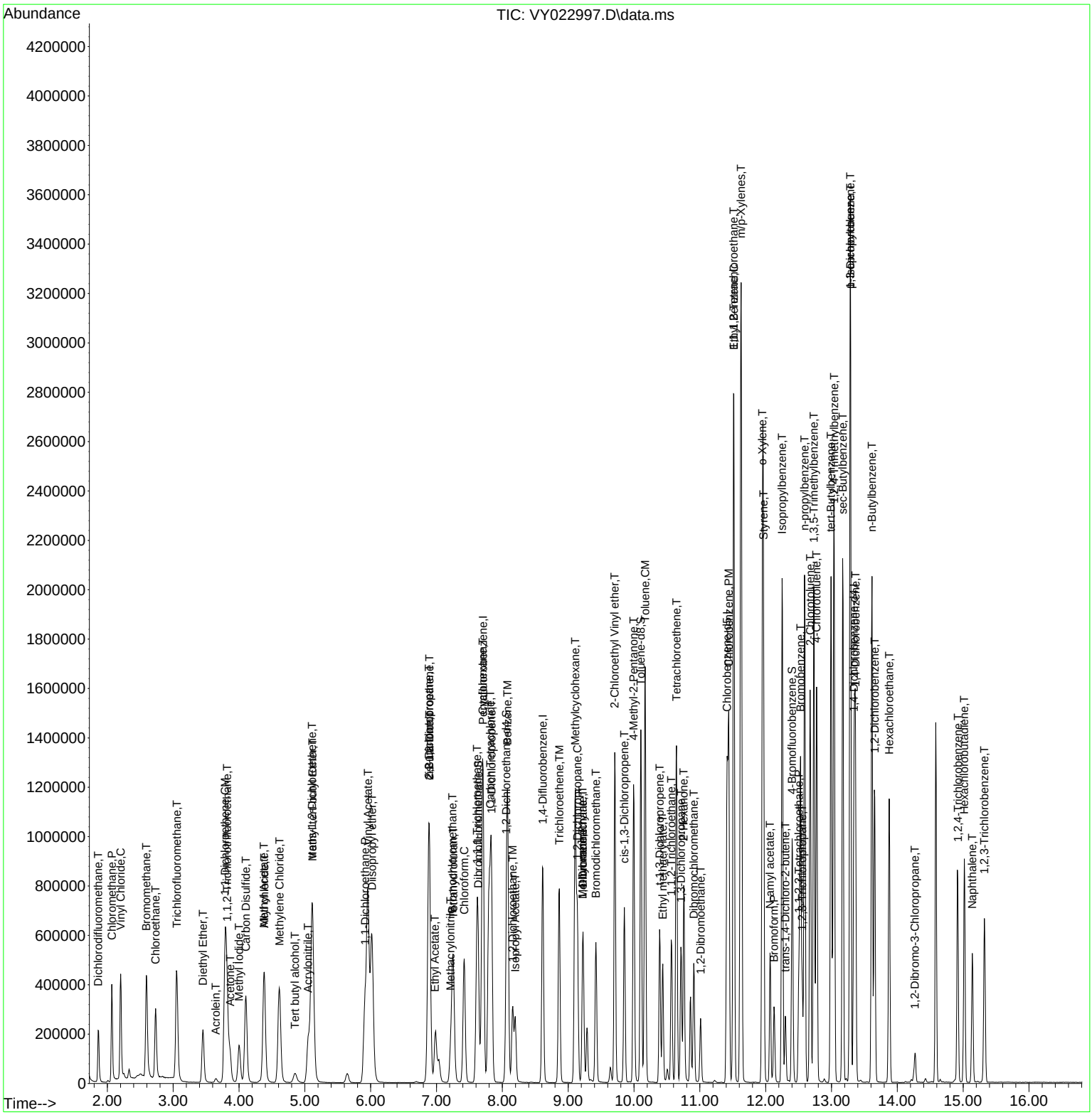
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

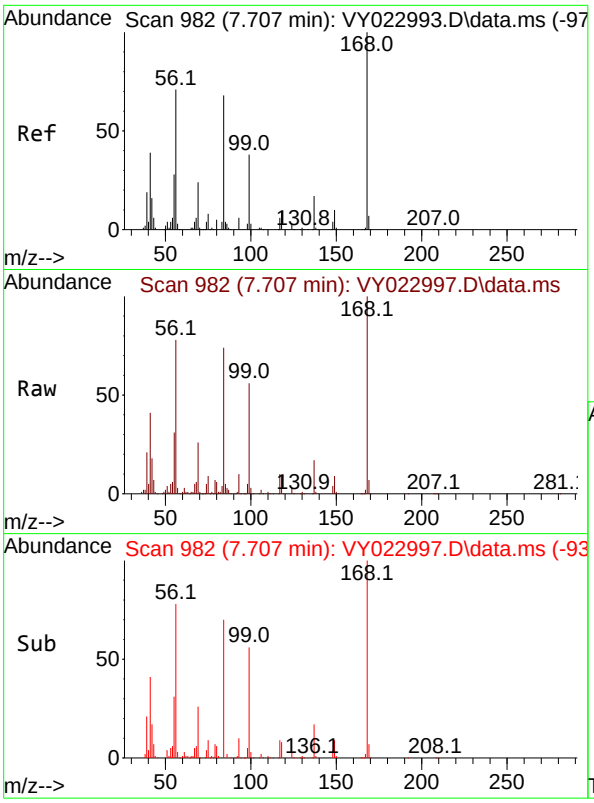
Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

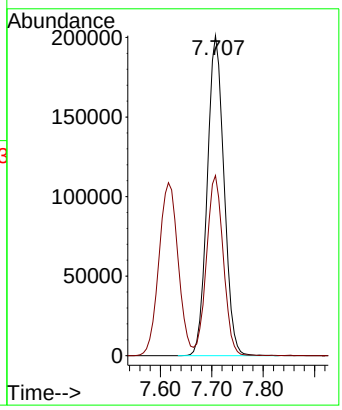




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:168 Resp: 45351

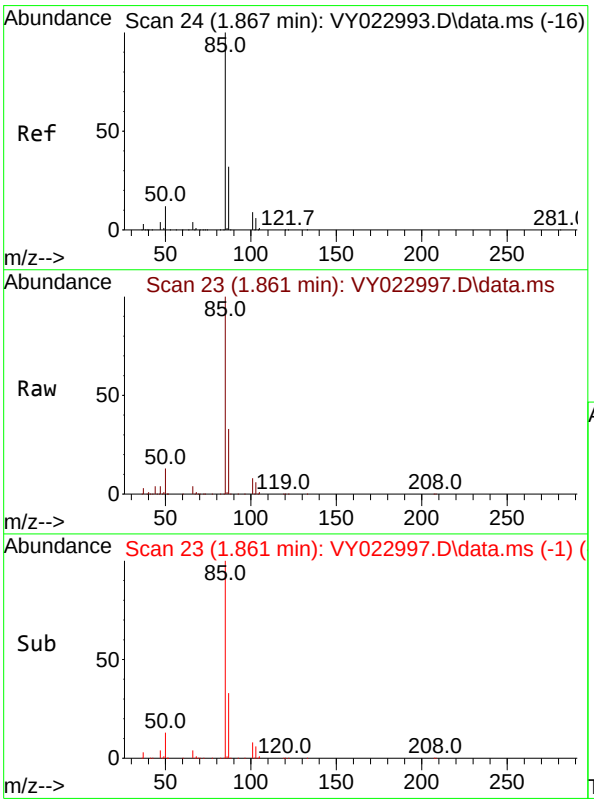
Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

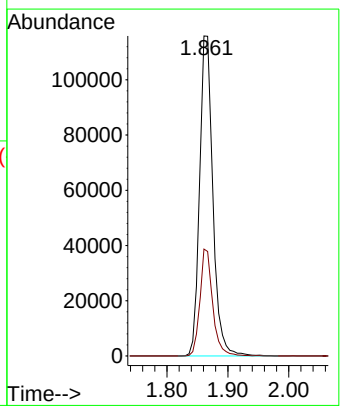
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

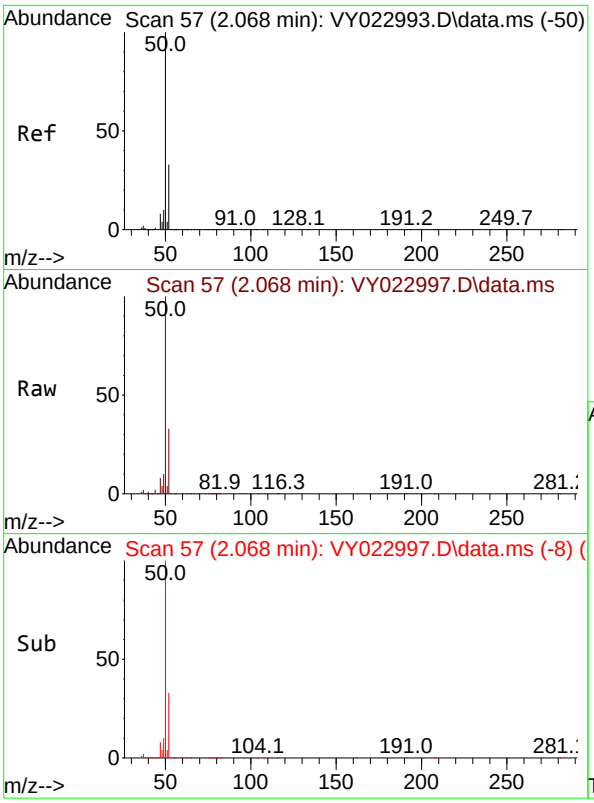


#2
Dichlorodifluoromethane
Concen: 45.684 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 85 Resp: 175922

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.0	47.9





#3
Chloromethane
Concen: 49.585 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

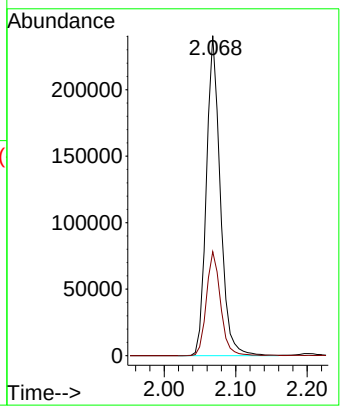
Tgt Ion: 50 Resp: 32467

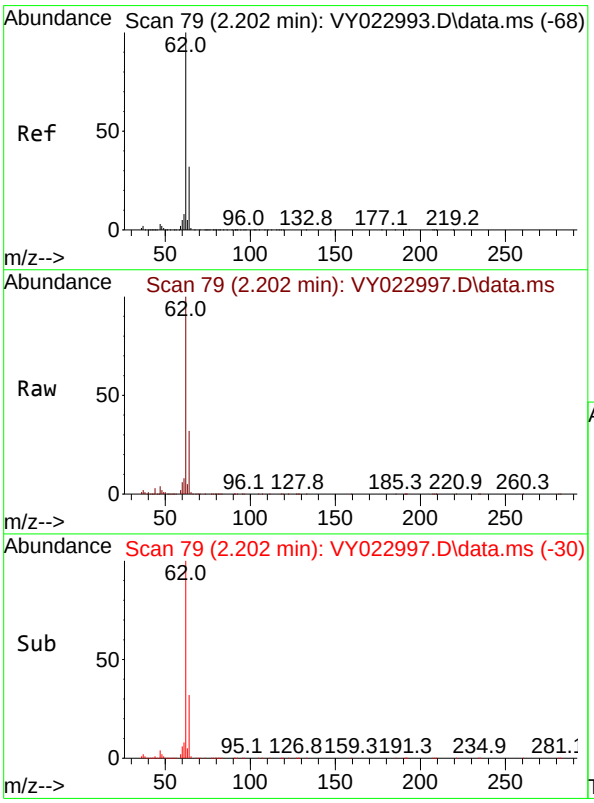
Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

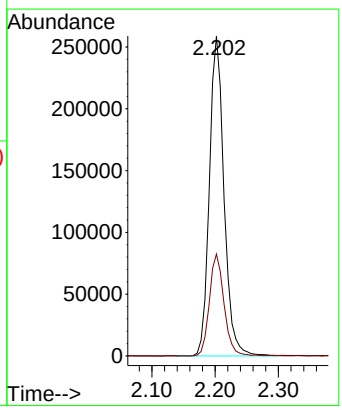


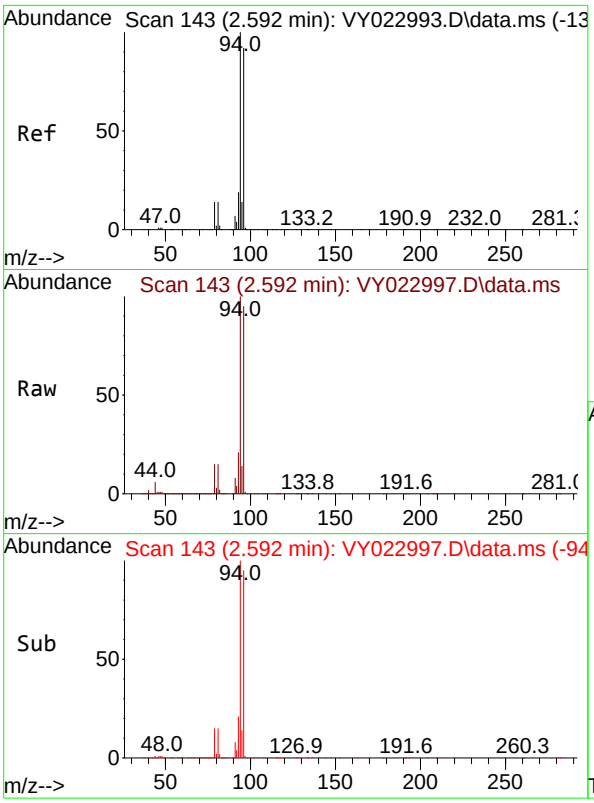


#4
Vinyl Chloride
Concen: 50.127 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 62 Resp: 415835

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.2	37.8





#5
Bromomethane
Concen: 49.431 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

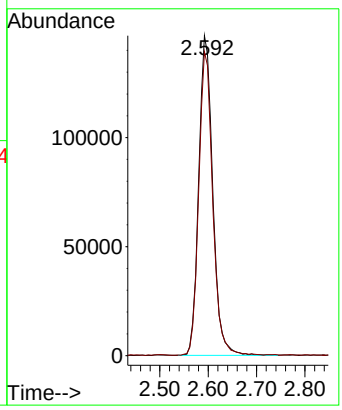
Tgt Ion: 94 Resp: 29594

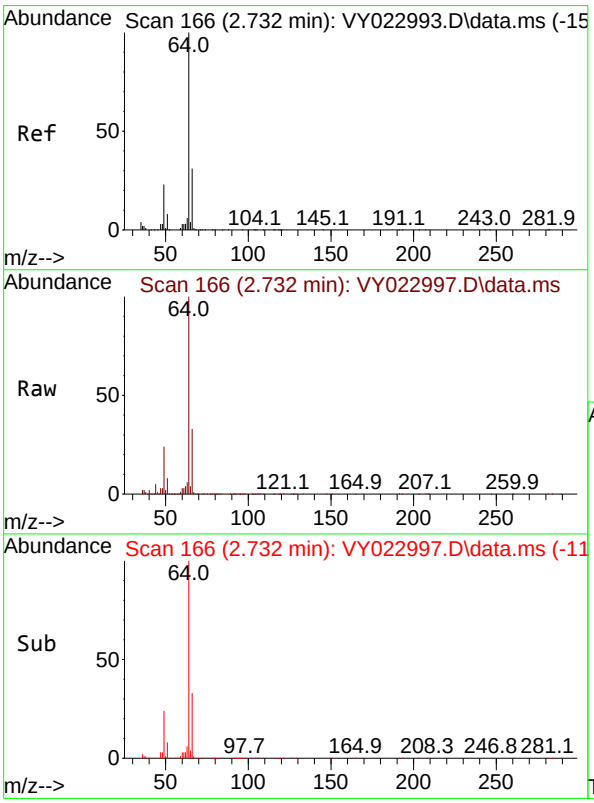
Ion	Ratio	Lower	Upper
94	100		
96	94.8	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

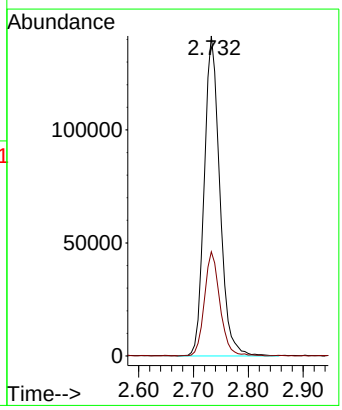


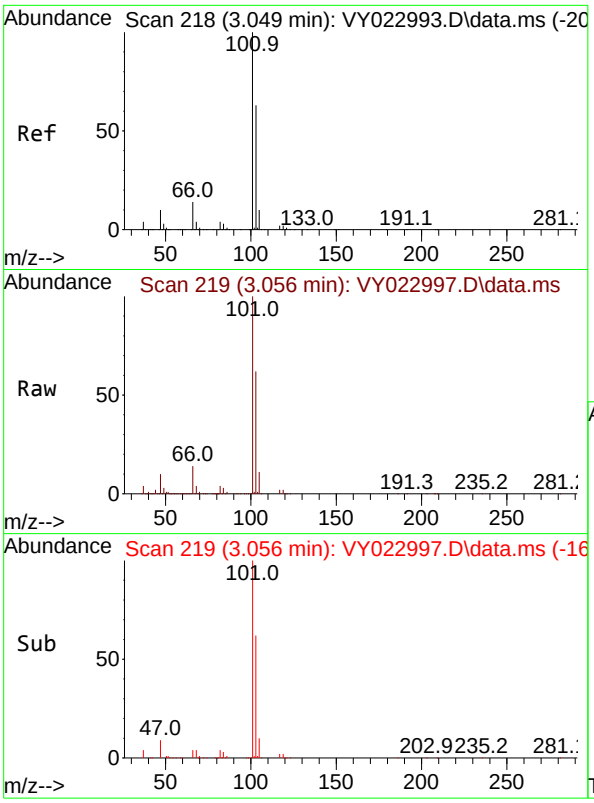


#6
Chloroethane
Concen: 50.317 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 64 Resp: 278774

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.9	37.3

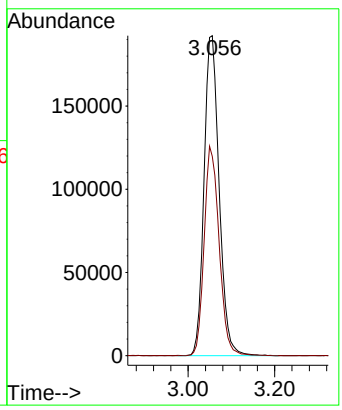




#7
Trichlorofluoromethane
Concen: 48.293 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:101 Resp: 46504

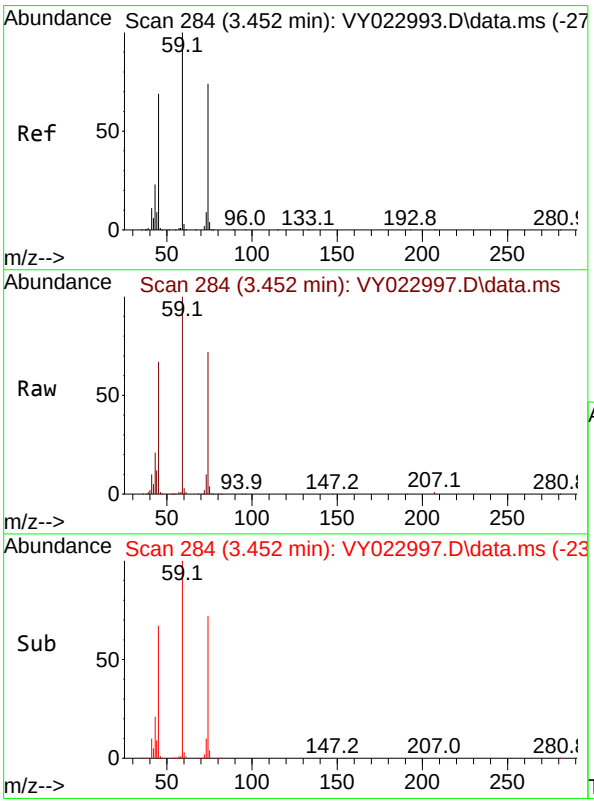
Ion	Ratio	Lower	Upper
101	100		
103	62.3	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

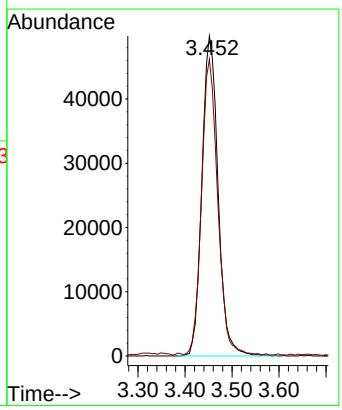
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

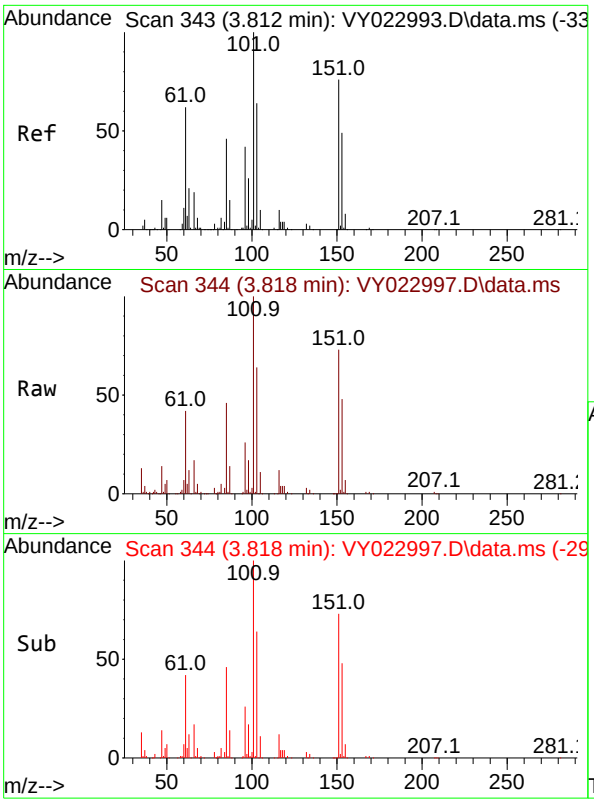


#8
Diethyl Ether
Concen: 47.110 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 74 Resp: 118735

Ion	Ratio	Lower	Upper
74	100		
45	93.2	45.1	135.2

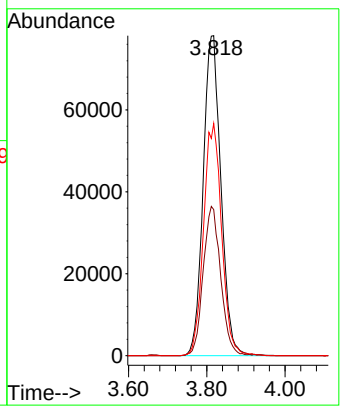




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.497 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:101 Resp: 24533

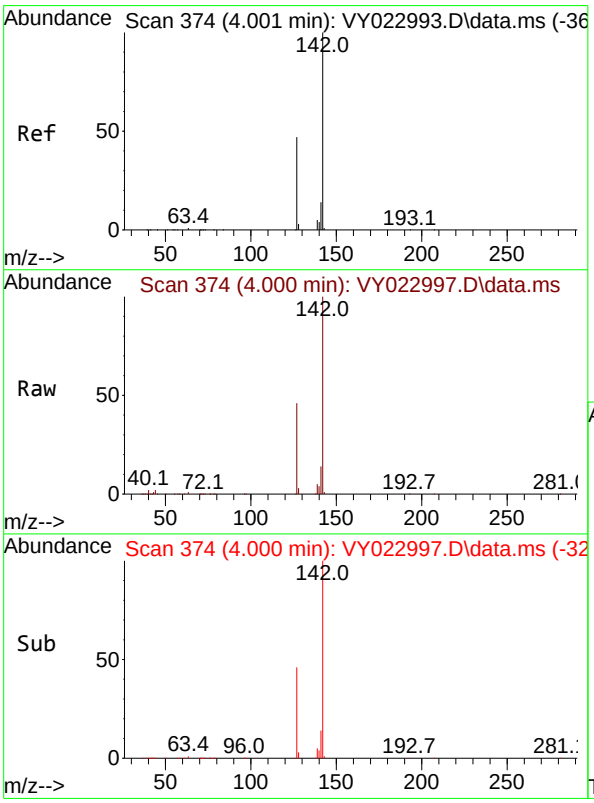
Ion	Ratio	Lower	Upper
101	100		
85	46.1	37.2	55.8
151	74.0	59.7	89.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

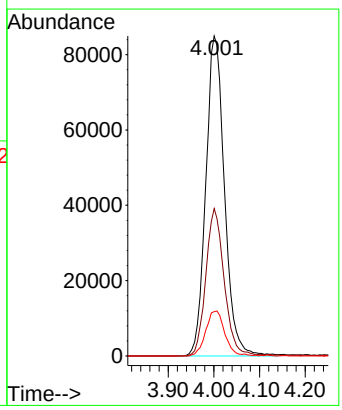
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

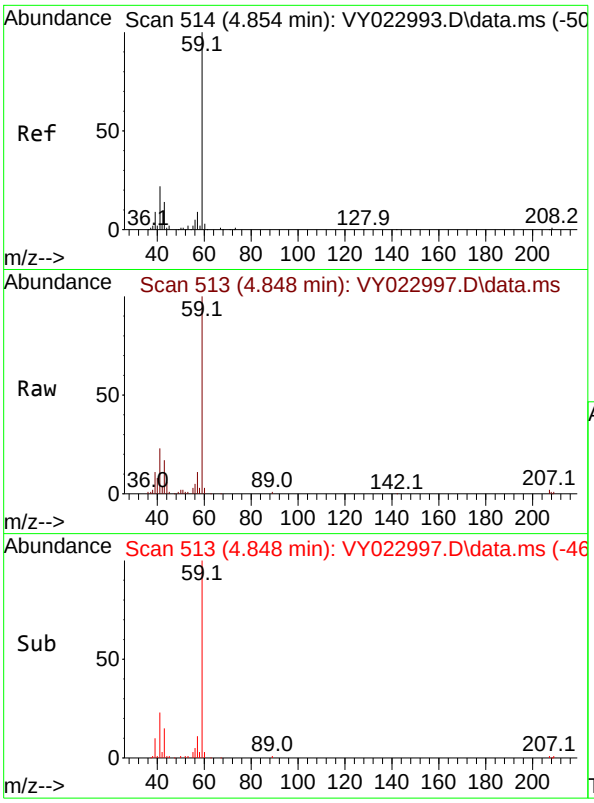


#10
Methyl Iodide
Concen: 45.946 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:142 Resp: 241459

Ion	Ratio	Lower	Upper
142	100		
127	45.1	37.0	55.6
141	14.4	11.4	17.2

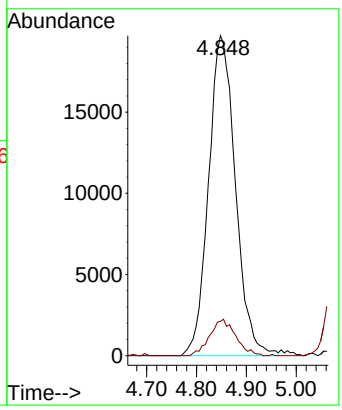




#11
Tert butyl alcohol
Concen: 265.607 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 59 Resp: 7374

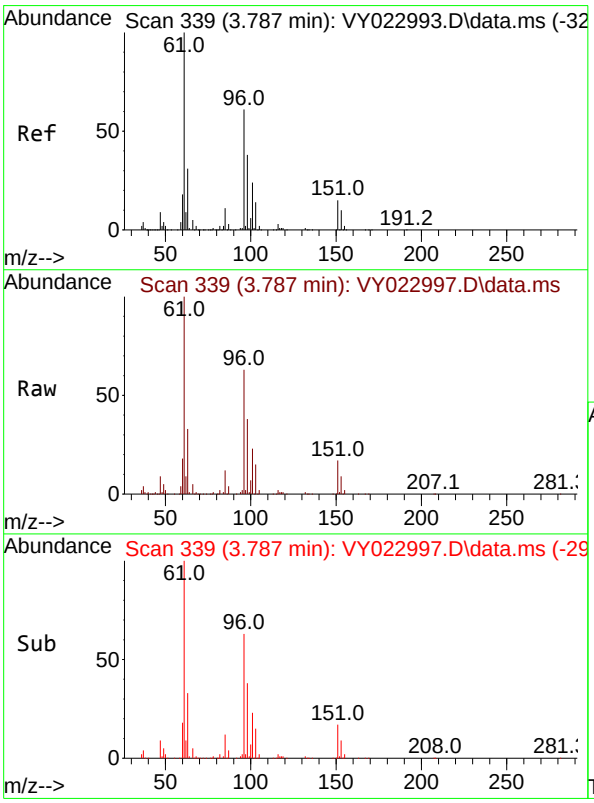
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

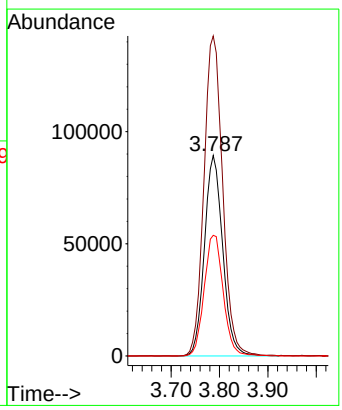
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

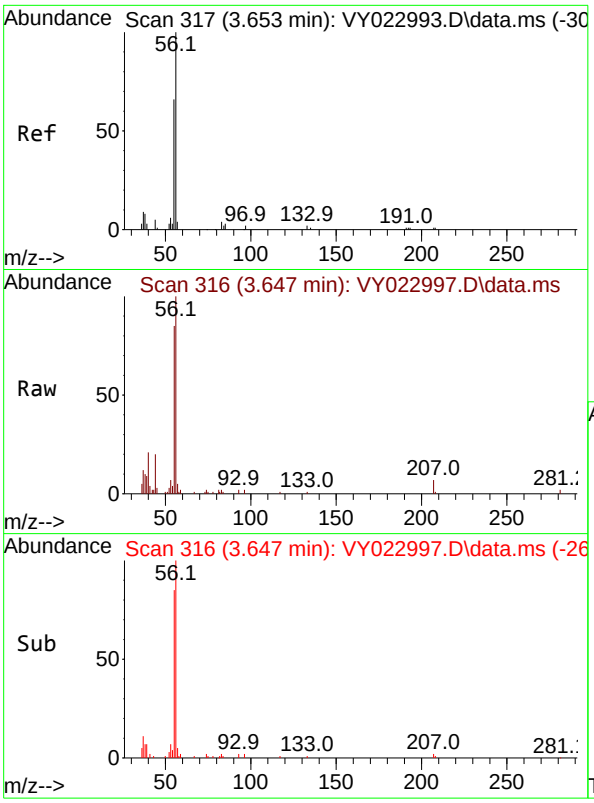


#12
1,1-Dichloroethene
Concen: 48.659 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 96 Resp: 234490

Ion	Ratio	Lower	Upper
96	100		
61	159.6	130.4	195.6
98	60.2	49.6	74.4

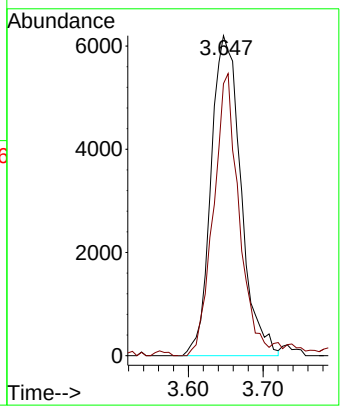




#13
Acrolein
Concen: 131.522 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 56 Resp: 1716

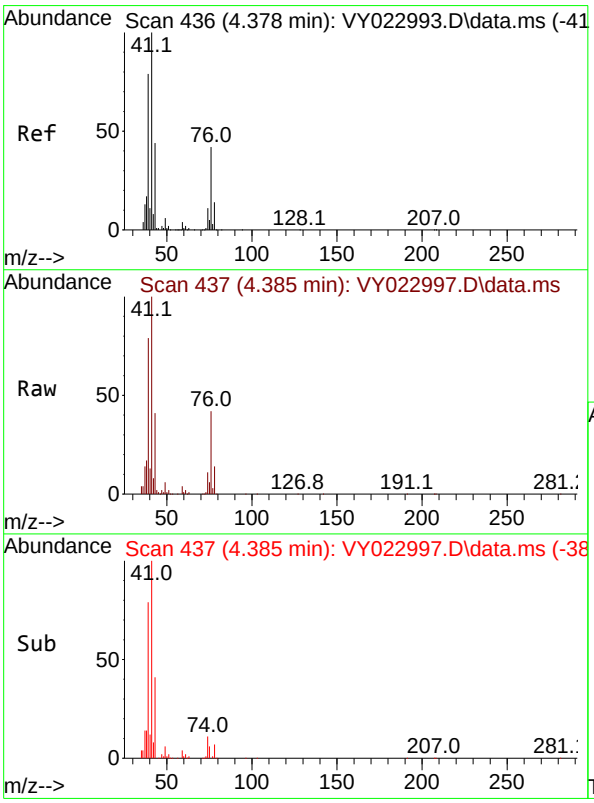
Ion	Ratio	Lower	Upper
56	100		
55	75.3	57.8	86.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

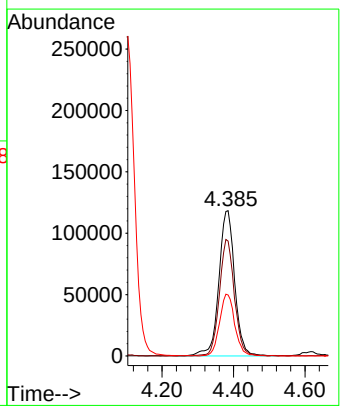
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

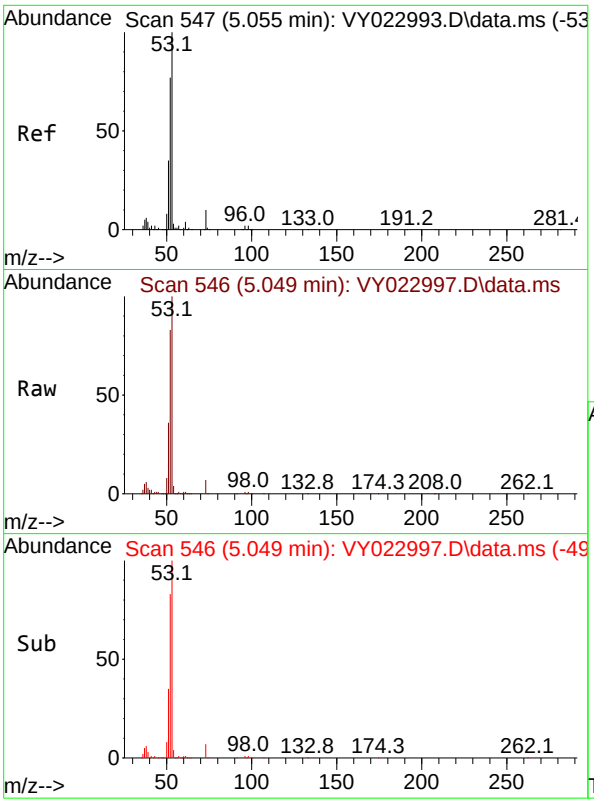


#14
Allyl chloride
Concen: 49.474 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 41 Resp: 363225

Ion	Ratio	Lower	Upper
41	100		
39	76.0	60.1	90.1
76	40.7	32.2	48.4

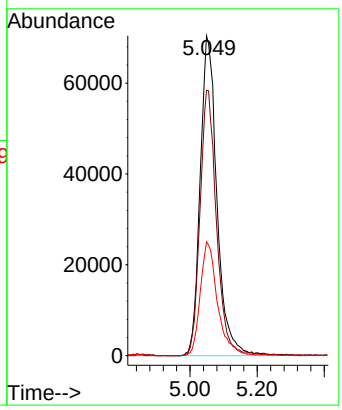




#15
Acrylonitrile
Concen: 256.502 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 53 Resp: 24486

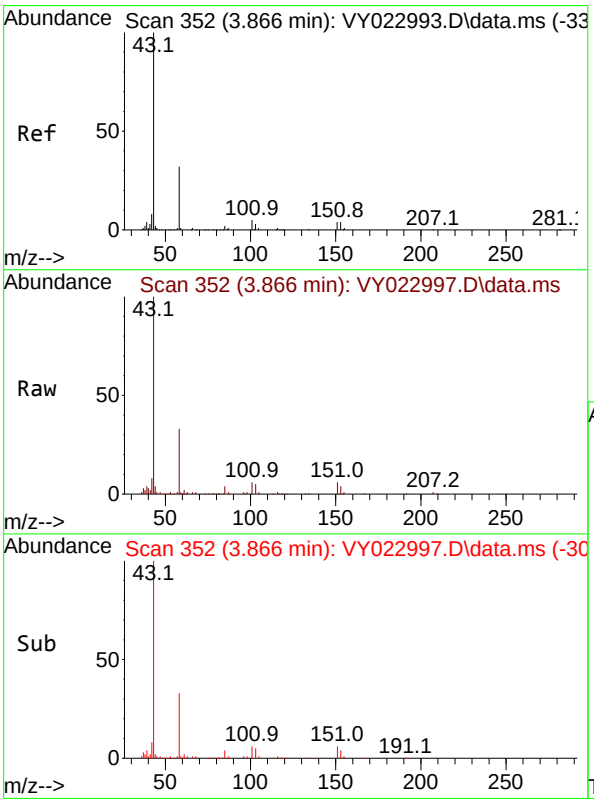
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.2	97.8
51	36.6	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

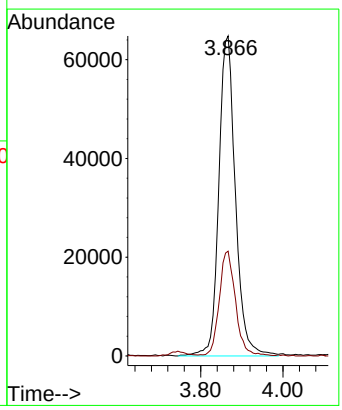
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

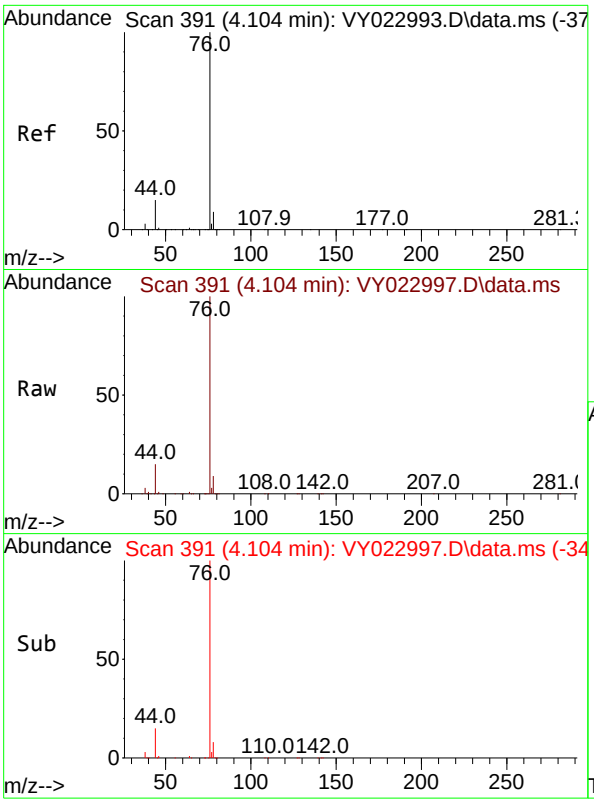


#16
Acetone
Concen: 218.434 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 181785

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.2	39.4

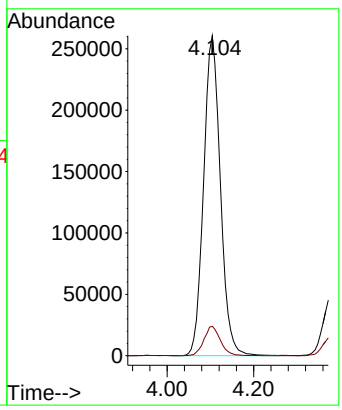




#17
Carbon Disulfide
Concen: 47.999 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 76 Resp: 70104

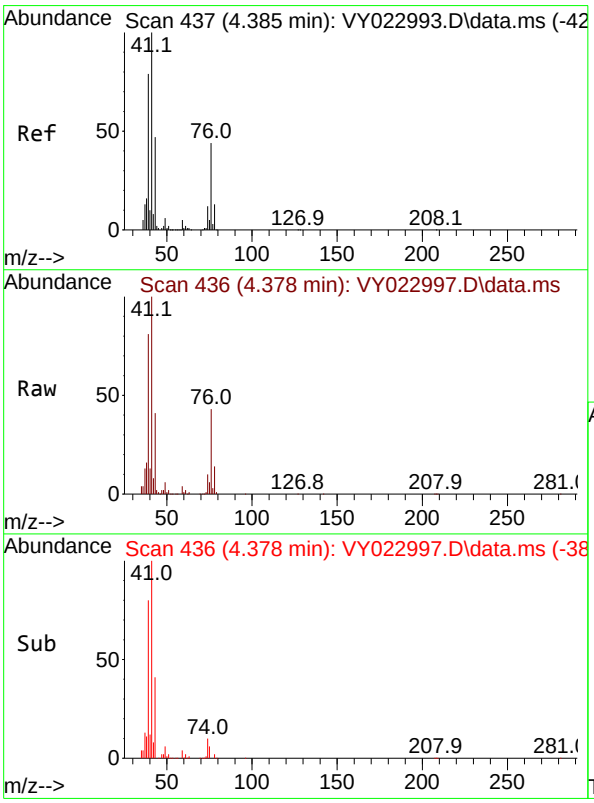
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

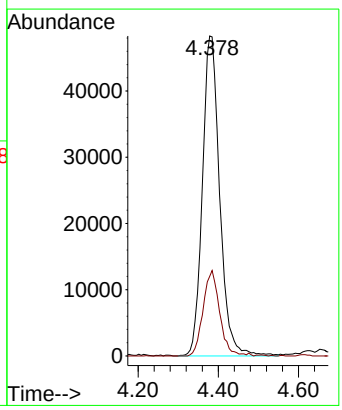
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

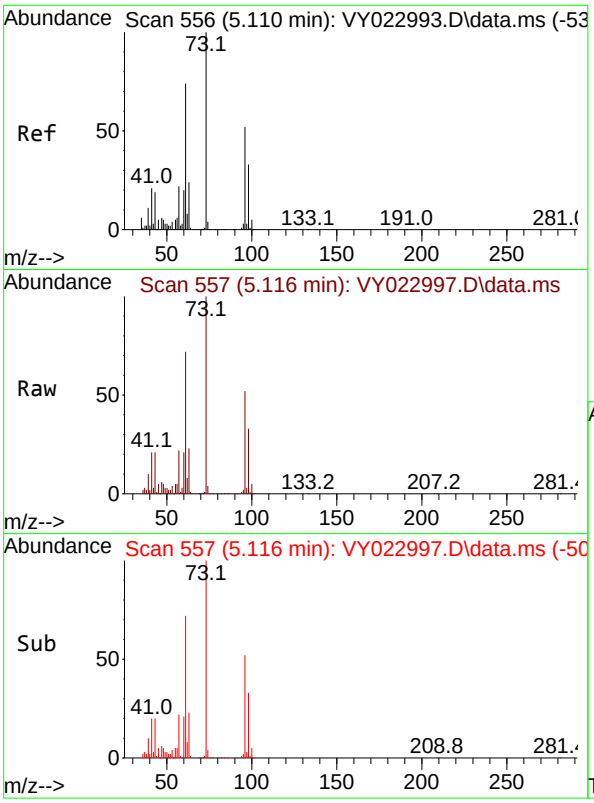


#18
Methyl Acetate
Concen: 51.459 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 144987

Ion	Ratio	Lower	Upper
43	100		
74	25.6	20.1	30.1

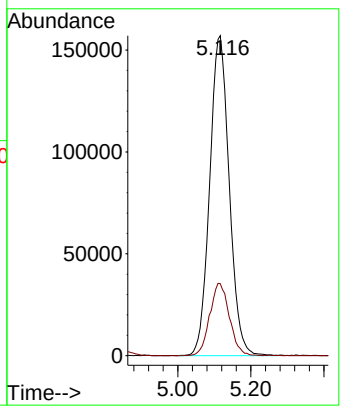




#19
Methyl tert-butyl Ether
Concen: 50.446 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 73 Resp: 58310

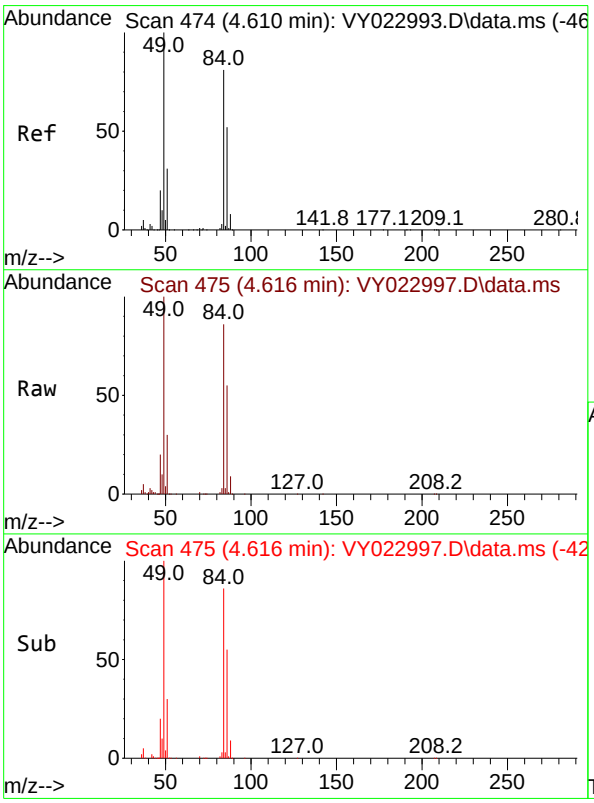
Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

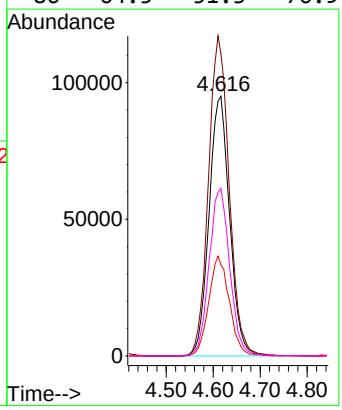
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

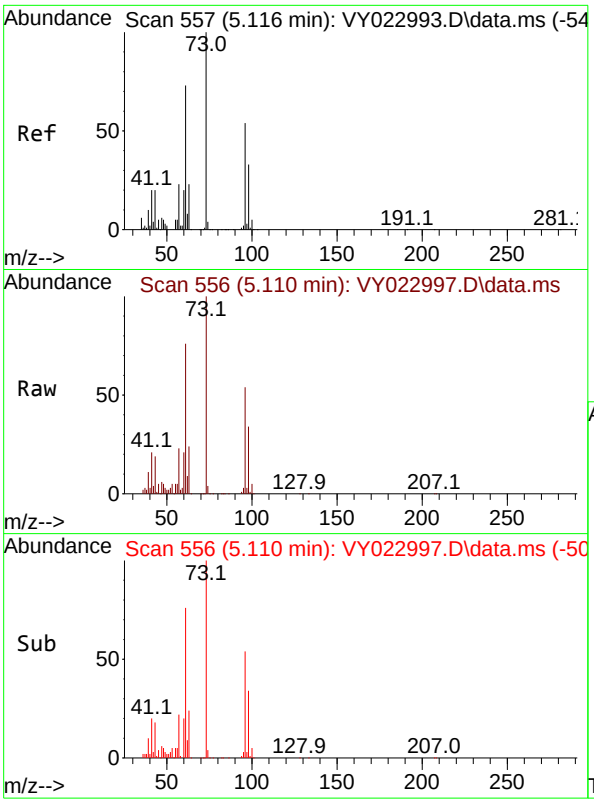


#20
Methylene Chloride
Concen: 49.355 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 84 Resp: 289542

Ion	Ratio	Lower	Upper
84	100		
49	116.4	98.2	147.4
51	35.1	30.5	45.7
86	64.5	51.3	76.9

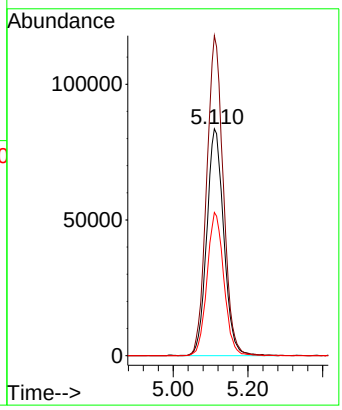




#21
trans-1,2-Dichloroethene
Concen: 49.197 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 96 Resp: 26391

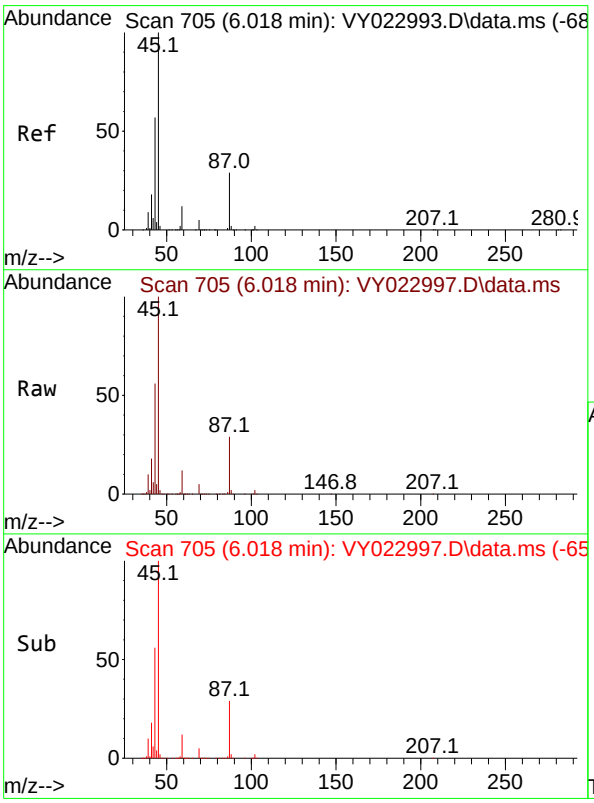
Ion	Ratio	Lower	Upper
96	100		
61	141.1	107.4	161.2
98	63.2	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

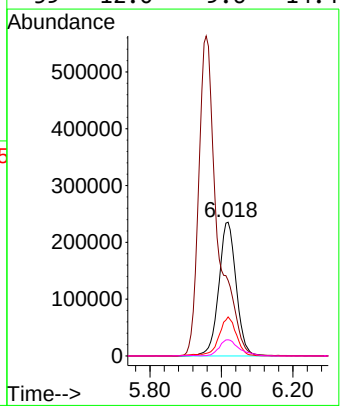
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

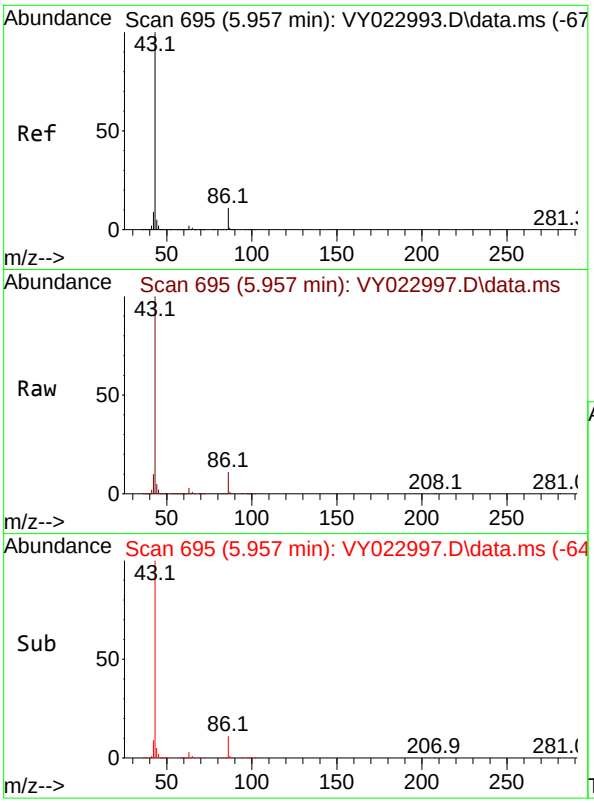


#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 45 Resp: 794156

Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.3	67.9
87	29.1	23.3	34.9
59	12.0	9.6	14.4





#23
Vinyl Acetate
Concen: 260.680 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

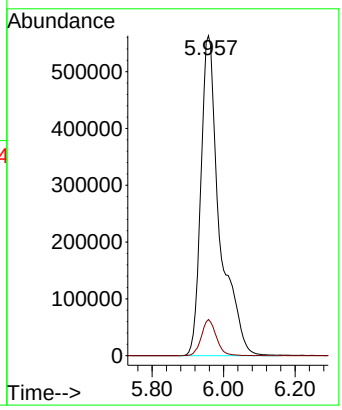
Tgt Ion: 43 Resp: 204581

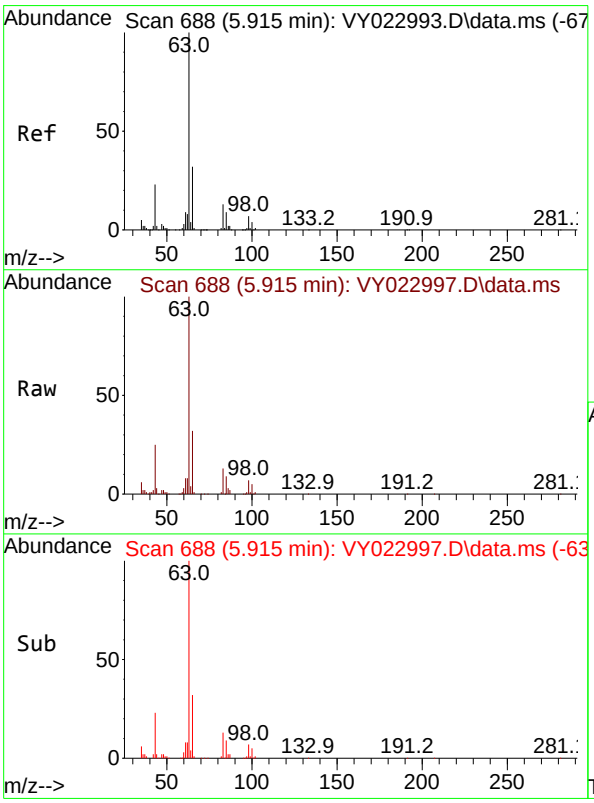
Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

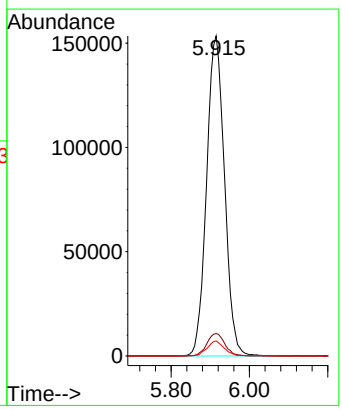


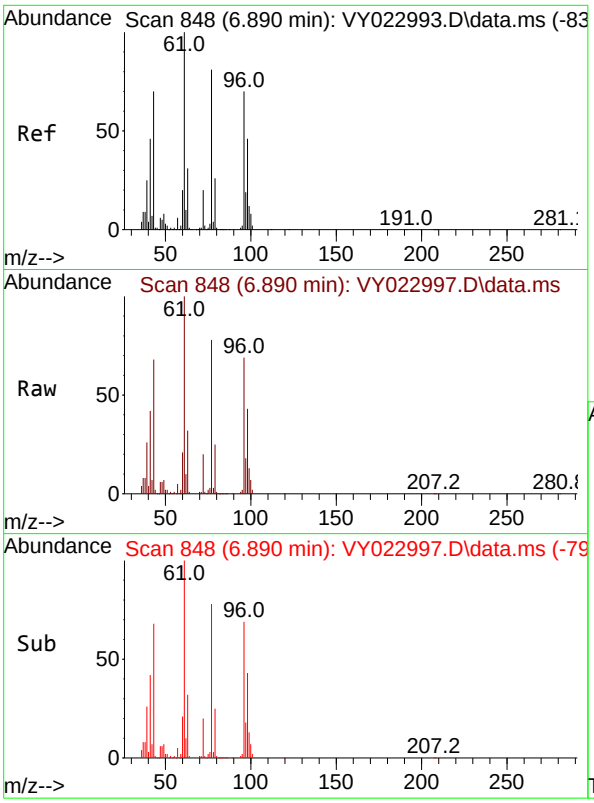


#24
1,1-Dichloroethane
Concen: 49.723 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 63 Resp: 486435

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.7	2.1	6.2





#25
2-Butanone
Concen: 248.403 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

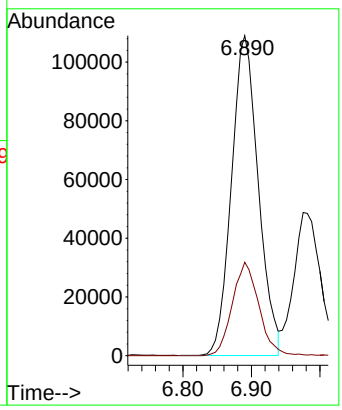
Tgt Ion: 43 Resp: 29656

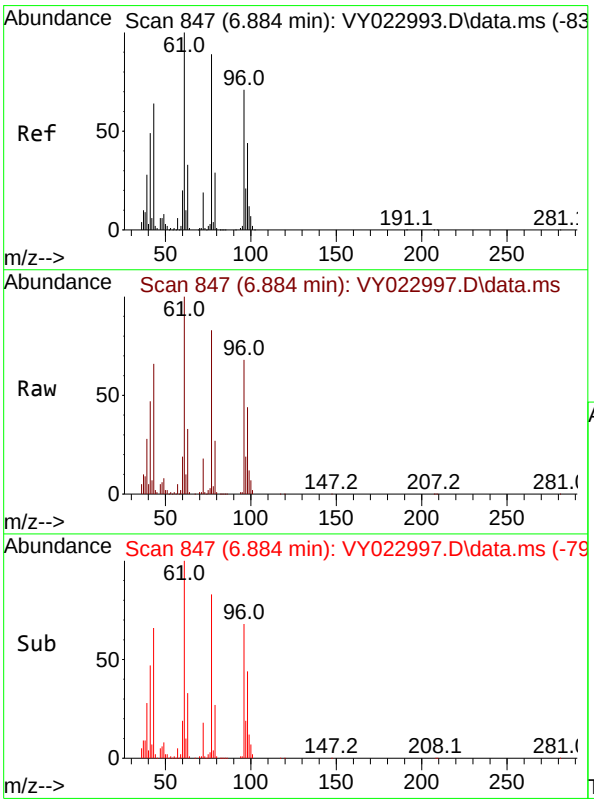
Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

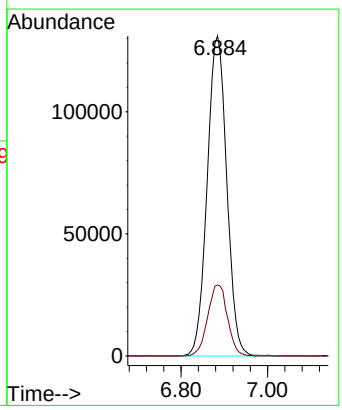


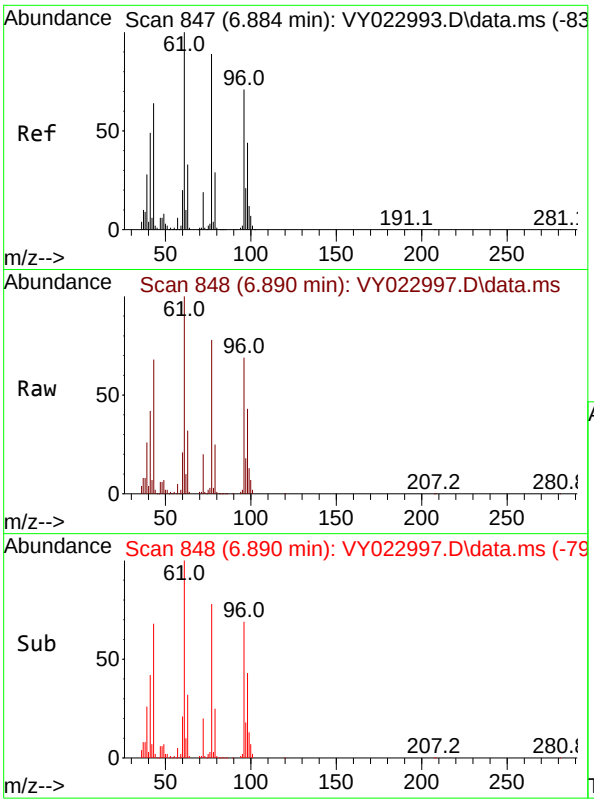


#26
2,2-Dichloropropane
Concen: 47.970 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 77 Resp: 411291

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.3	33.9

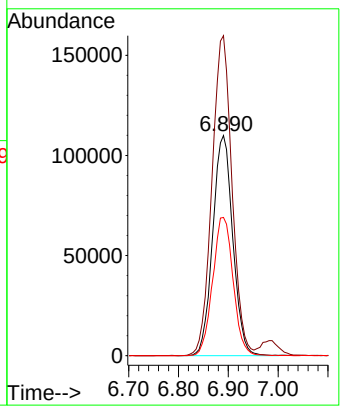




#27
cis-1,2-Dichloroethene
Concen: 49.681 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 96 Resp: 30714

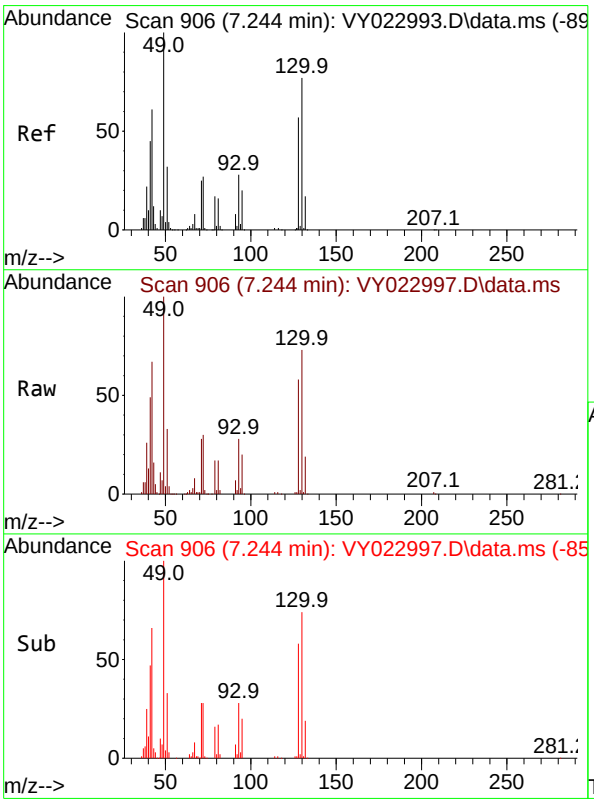
Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	286.2
98	64.1	0.0	127.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

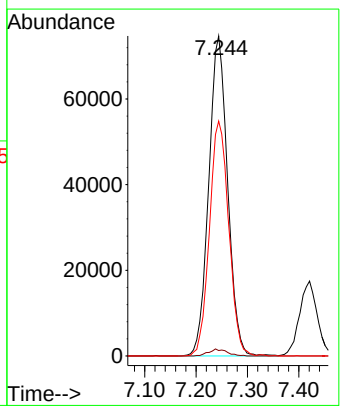
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

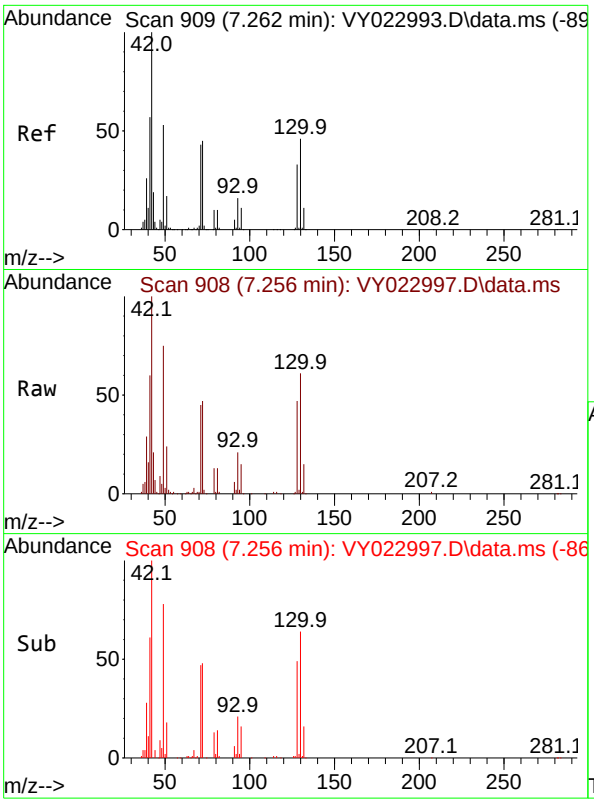


#28
Bromochloromethane
Concen: 50.281 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 49 Resp: 190788

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	74.9	61.8	92.8

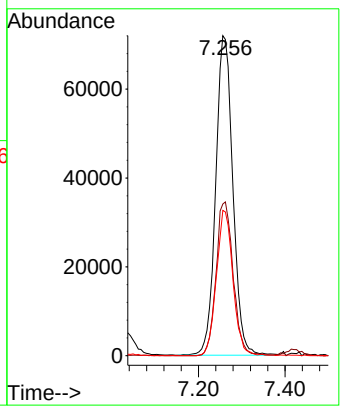




#29
Tetrahydrofuran
Concen: 262.377 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 42 Resp: 19832

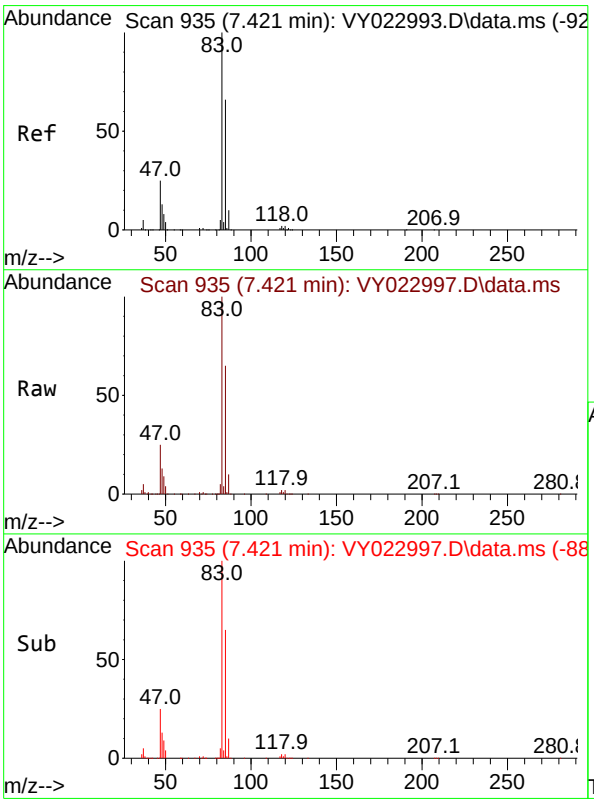
Ion	Ratio	Lower	Upper
42	100		
72	48.0	37.5	56.3
71	43.8	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

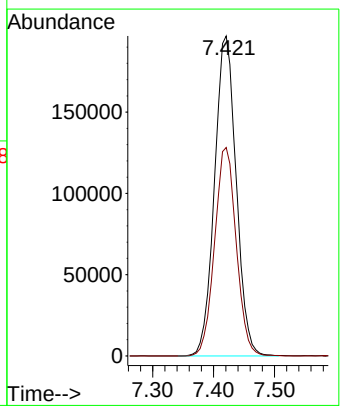
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

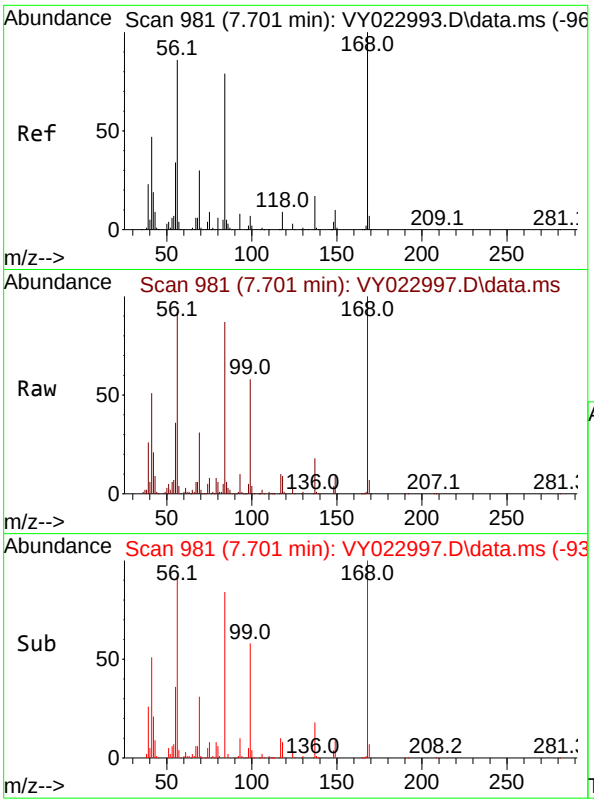


#30
Chloroform
Concen: 49.239 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 83 Resp: 485939

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.6	78.8

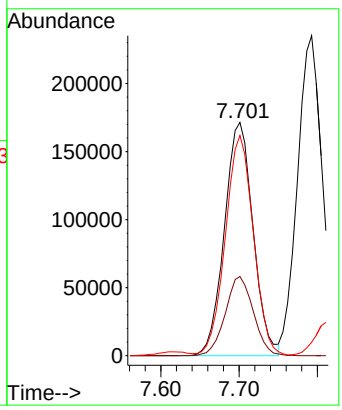




#31
Cyclohexane
Concen: 47.772 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 56 Resp: 43669

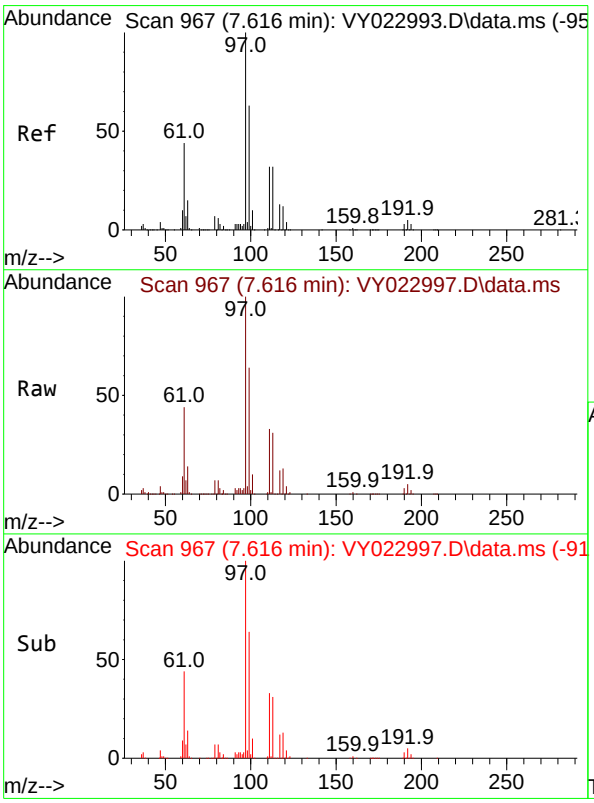
Ion	Ratio	Lower	Upper
56	100		
69	33.9	28.1	42.1
84	92.8	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

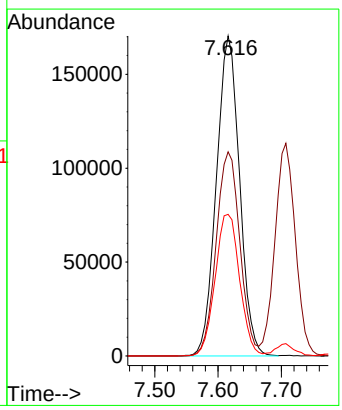
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

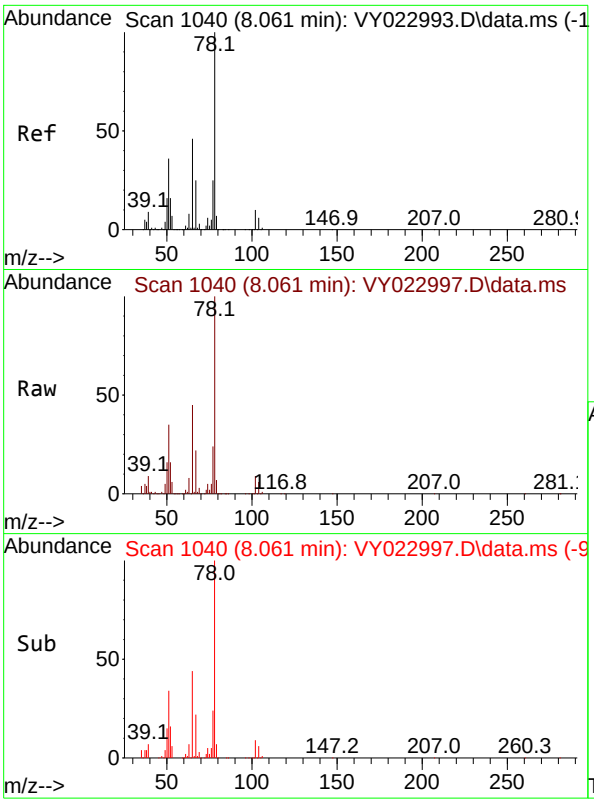


#32
1,1,1-Trichloroethane
Concen: 48.396 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 97 Resp: 433361

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.1	76.7
61	46.8	36.1	54.1

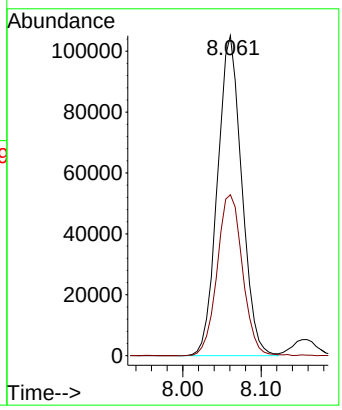




#33
1,2-Dichloroethane-d4
Concen: 49.273 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 65 Resp: 22621

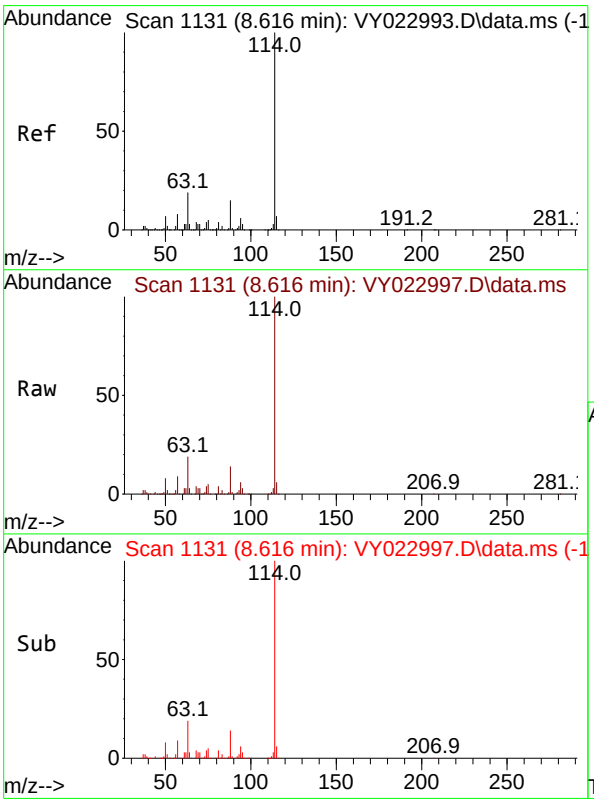
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

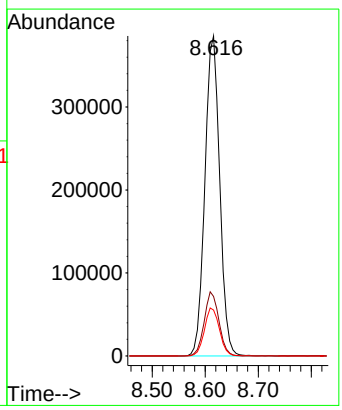
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

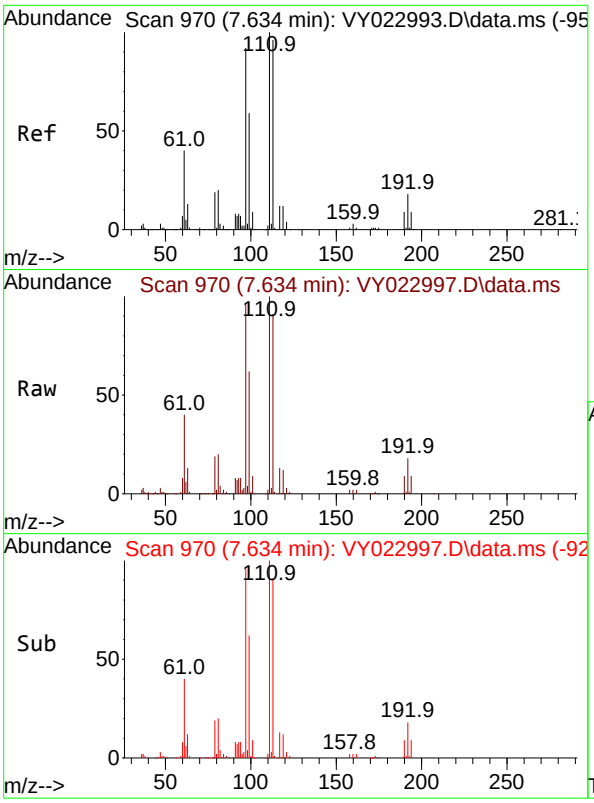


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:114 Resp: 746741

Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.8
88	14.4	0.0	30.2

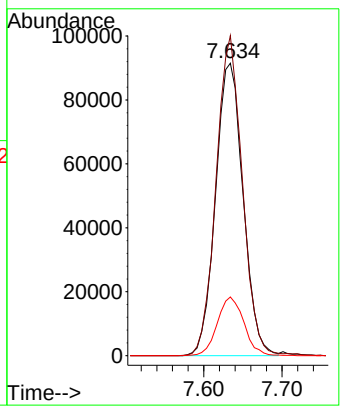




#35
Dibromofluoromethane
Concen: 47.188 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:113 Resp: 22352

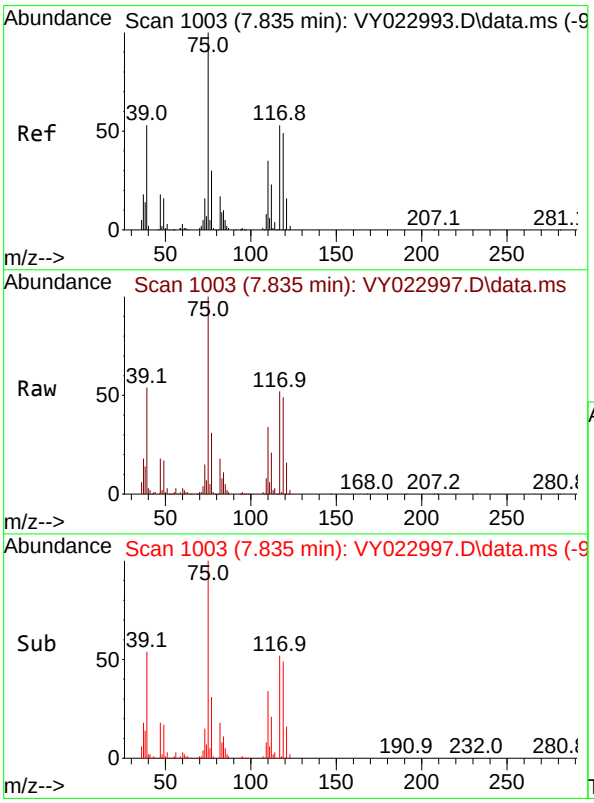
Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.2	124.8
192	19.5	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

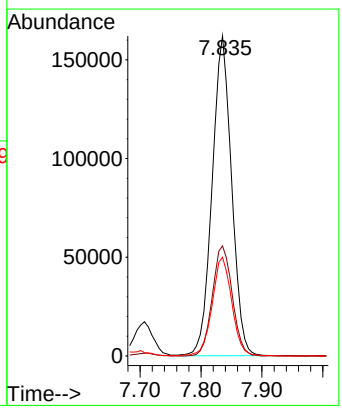
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

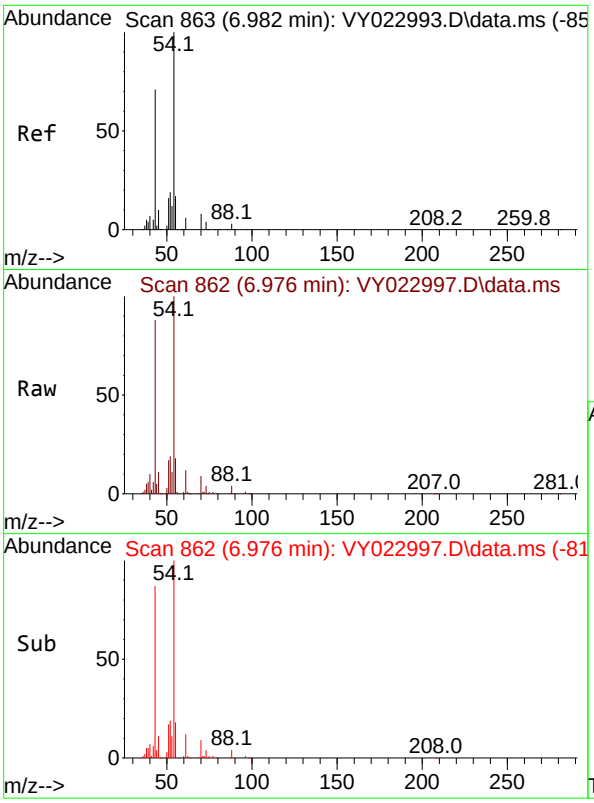


#36
1,1-Dichloropropene
Concen: 48.190 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 359563

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	30.8	24.6	37.0





#37
Ethyl Acetate
Concen: 49.138 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

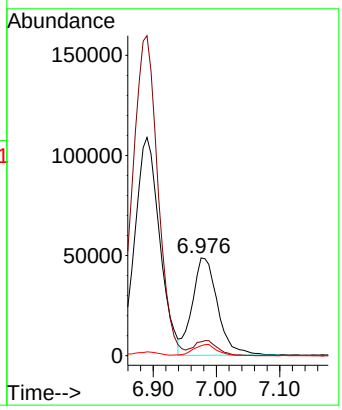
Tgt Ion: 43 Resp: 13616

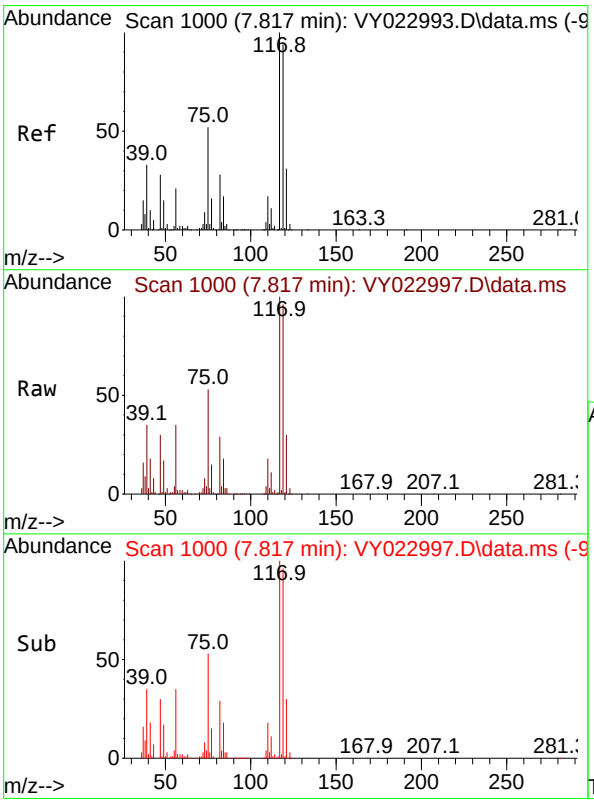
Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.6	17.4
70	10.8	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

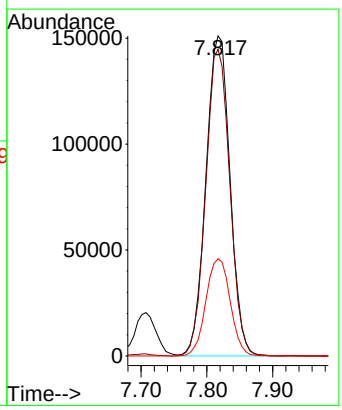


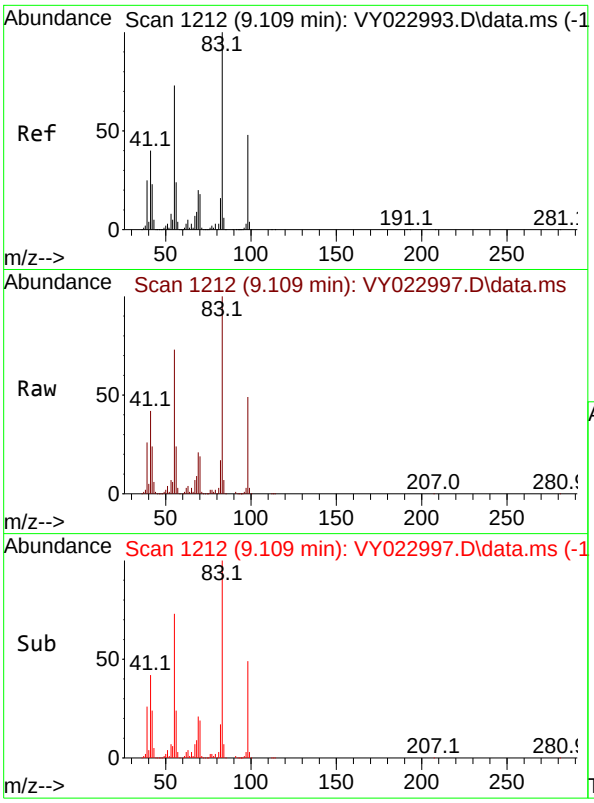


#38
Carbon Tetrachloride
Concen: 47.594 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:117 Resp: 385805

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.9	112.3
121	30.4	24.6	37.0





#39
Methylcyclohexane
Concen: 49.705 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

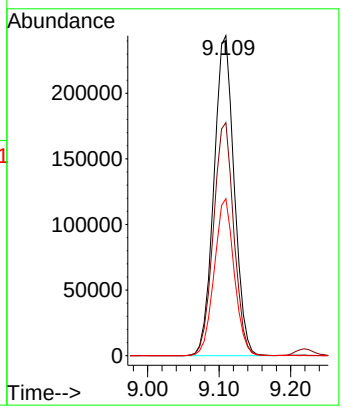
Tgt Ion: 83 Resp: 48002

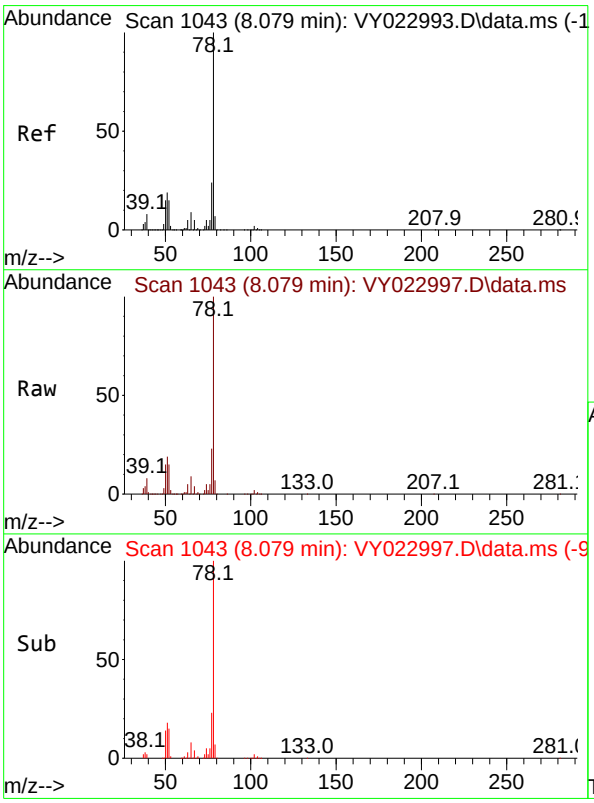
Ion	Ratio	Lower	Upper
83	100		
55	72.8	58.1	87.1
98	49.0	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

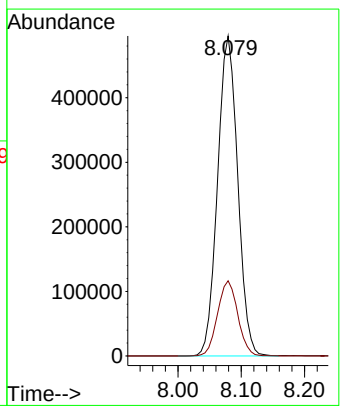


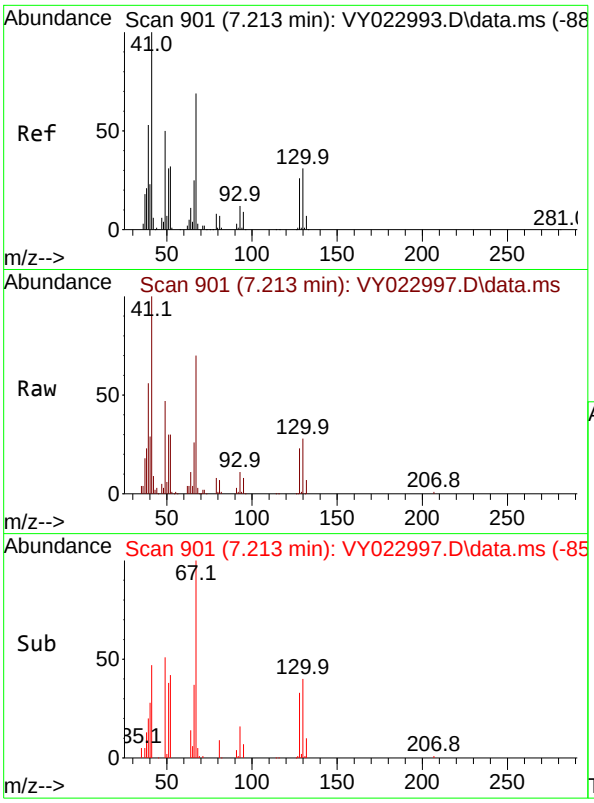


#40
Benzene
Concen: 48.756 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 78 Resp: 1095313

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4

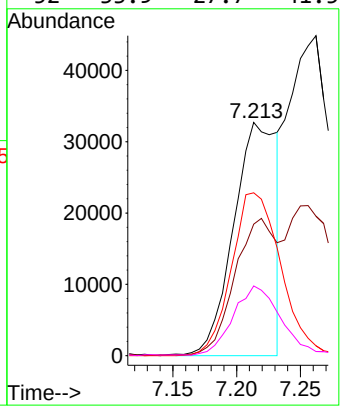




#41
Methacrylonitrile
Concen: 51.019 ug/l m
RT: 7.213 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 41 Resp: 7701

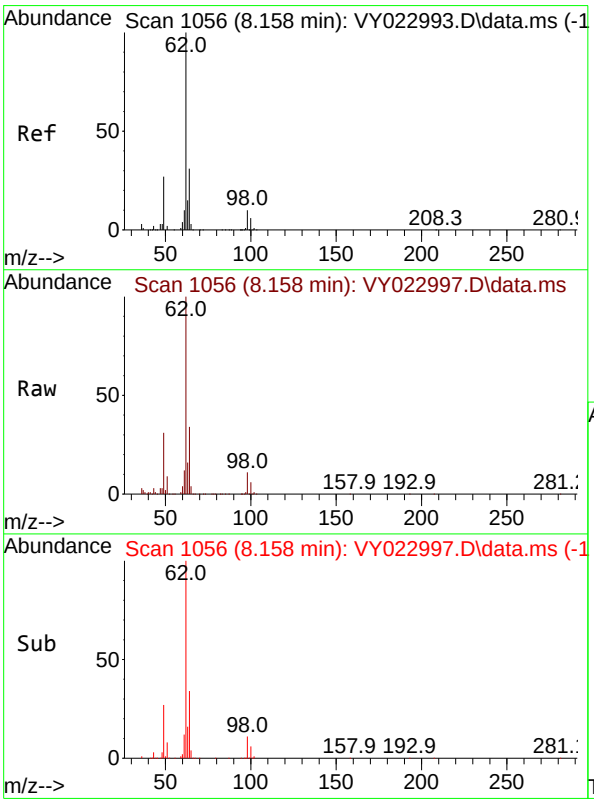
Ion	Ratio	Lower	Upper
41	100		
39	56.3	50.0	75.0
67	80.6	65.4	98.2
52	33.9	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

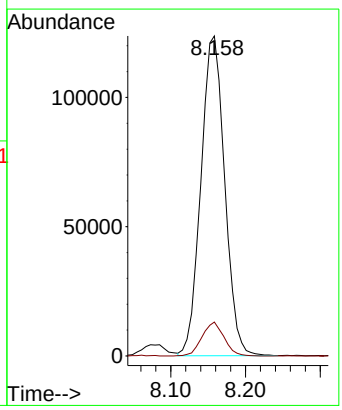
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

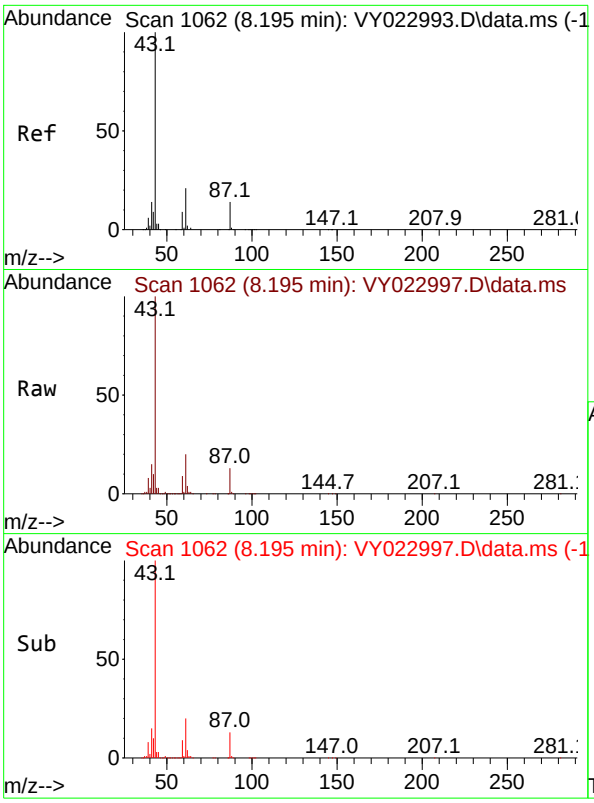


#42
1,2-Dichloroethane
Concen: 48.885 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 62 Resp: 273227

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0





#43
Isopropyl Acetate
Concen: 51.356 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

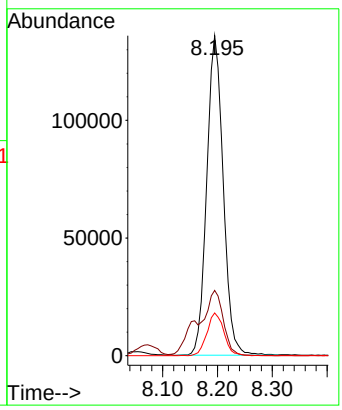
Tgt Ion: 43 Resp: 28268

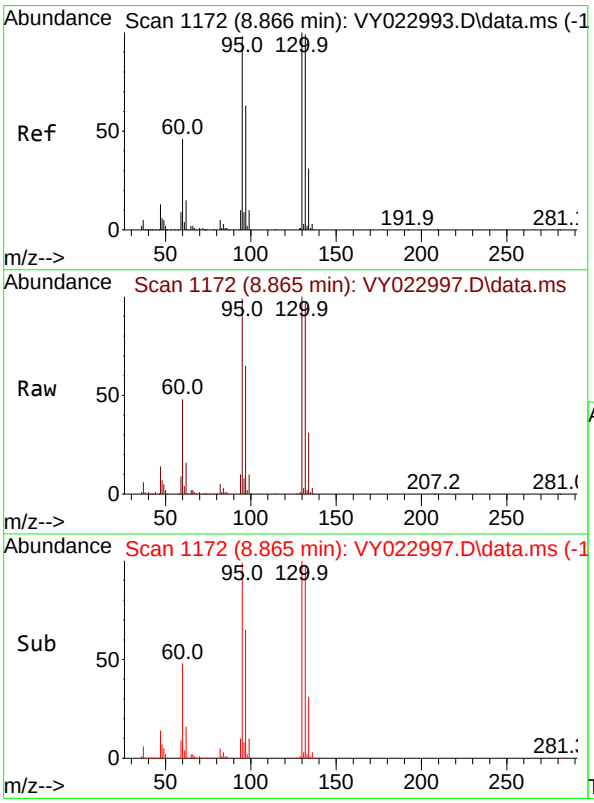
Ion	Ratio	Lower	Upper
43	100		
61	20.6	25.0	37.4
87	13.8	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

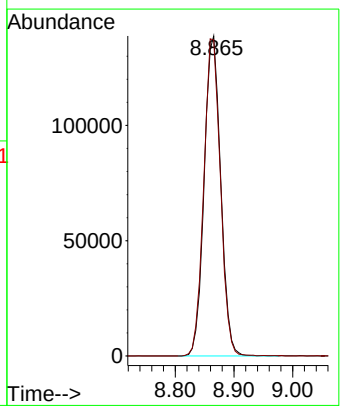


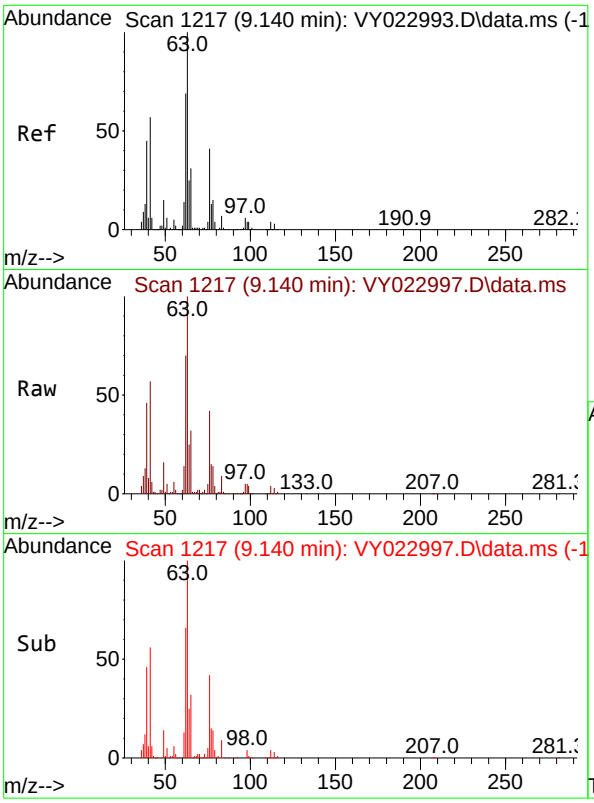


#44
Trichloroethene
Concen: 46.984 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:130 Resp: 271109

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	195.8





#45
1,2-Dichloropropane
Concen: 48.601 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

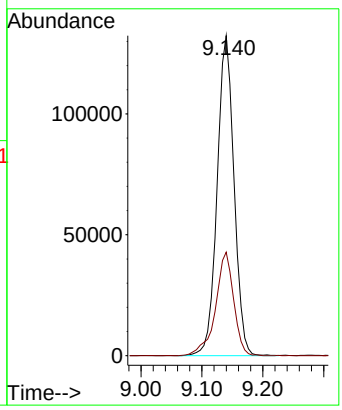
Tgt Ion: 63 Resp: 25497

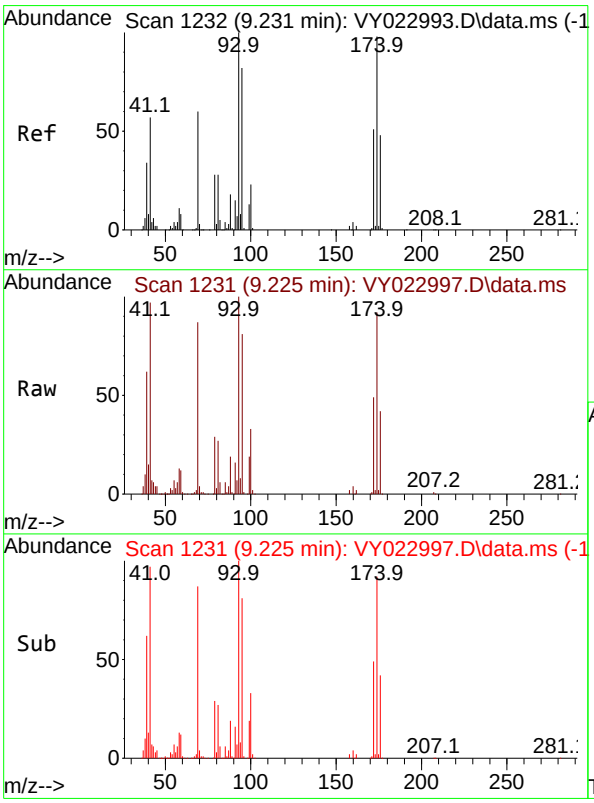
Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

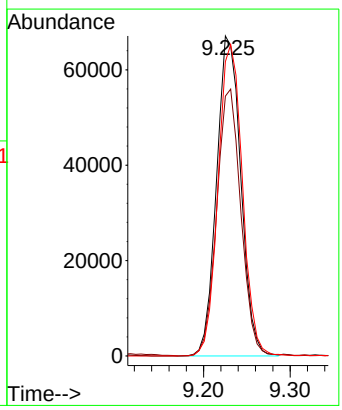


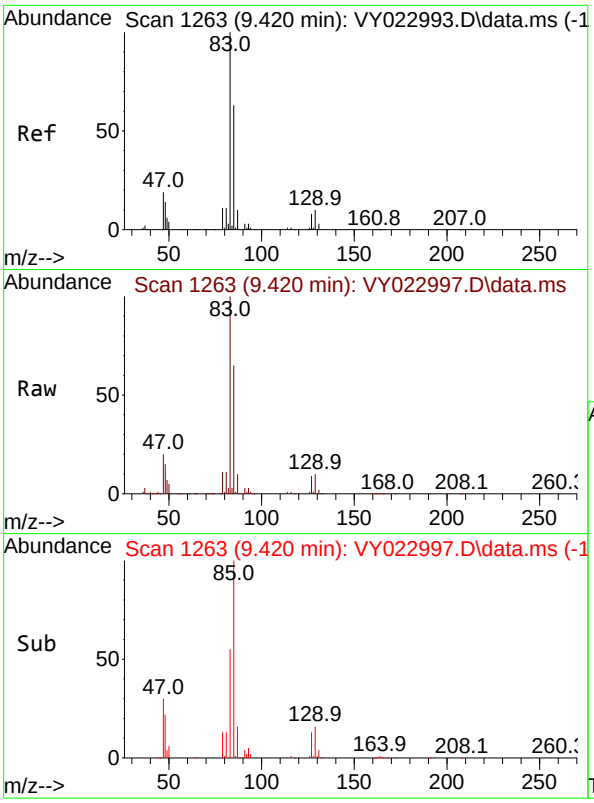


#46
Dibromomethane
Concen: 48.105 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 93 Resp: 130449

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.9	98.9
174	97.7	76.4	114.6

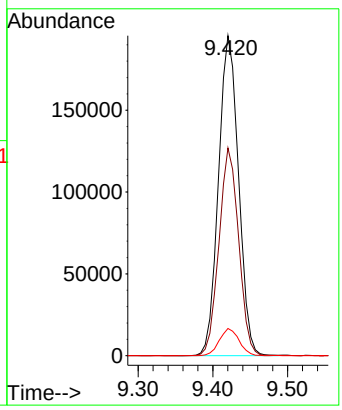




#47
Bromodichloromethane
Concen: 48.715 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 83 Resp: 36515

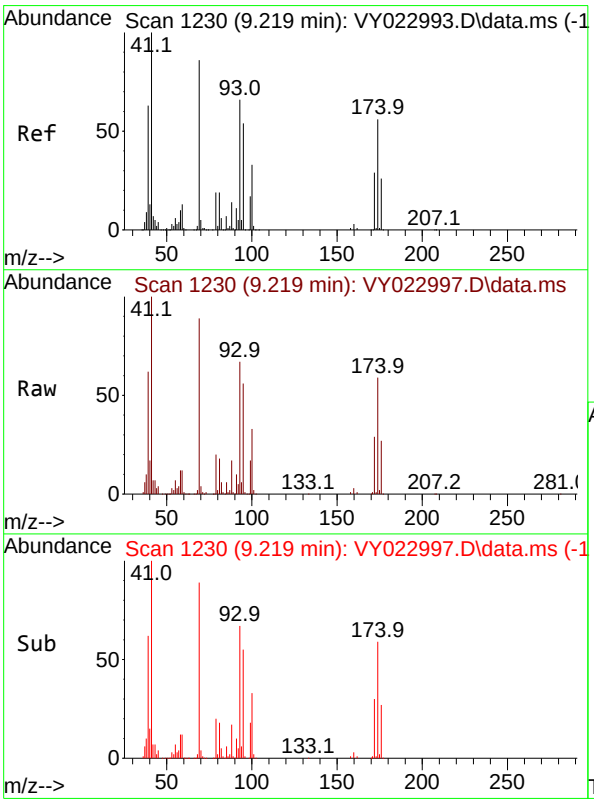
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.6	75.8
127	8.5	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

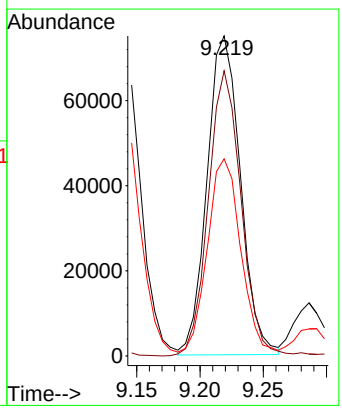
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

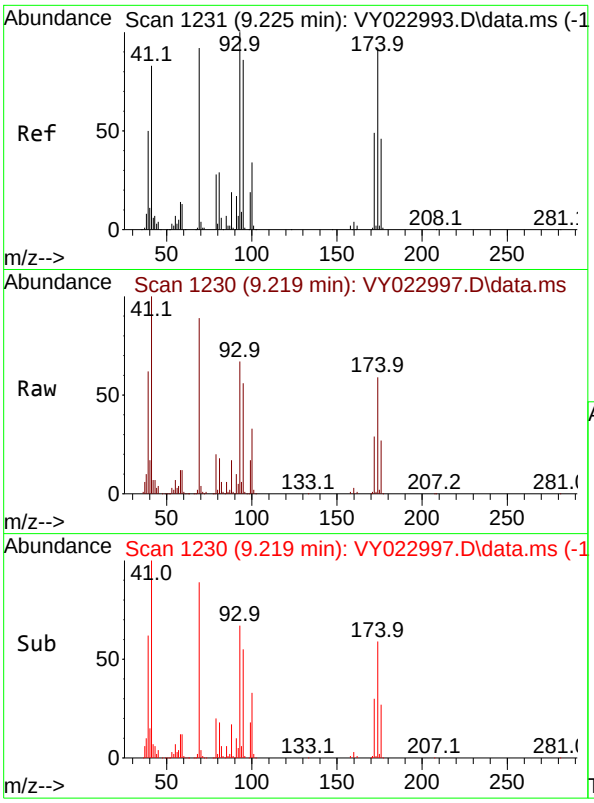


#48
Methyl methacrylate
Concen: 51.856 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 41 Resp: 137807

Ion	Ratio	Lower	Upper
41	100		
69	88.4	71.4	107.0
39	60.0	47.8	71.8

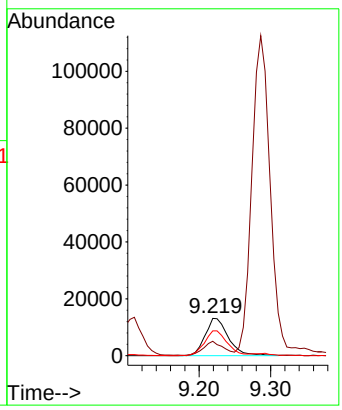




#49
1,4-Dioxane
Concen: 1039.077 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 88 Resp: 2970

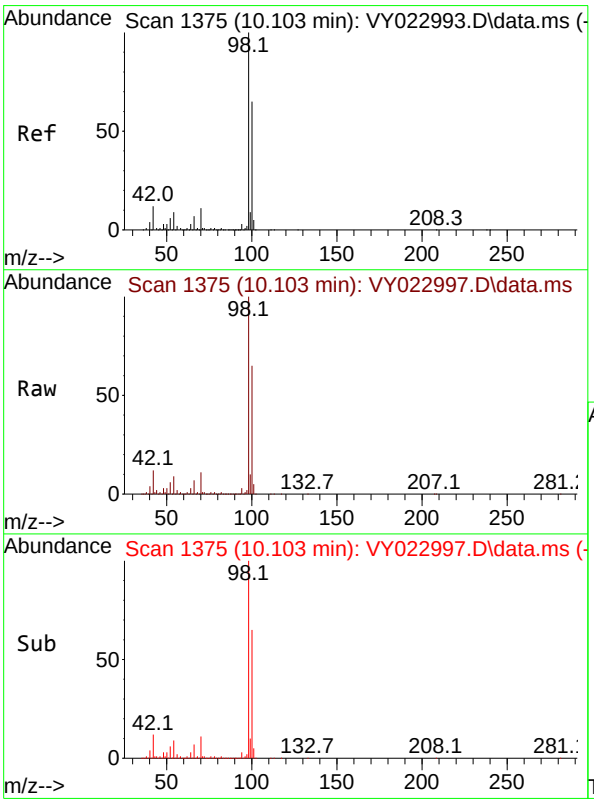
Ion	Ratio	Lower	Upper
88	100		
43	32.3	28.7	43.1
58	64.9	59.8	89.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

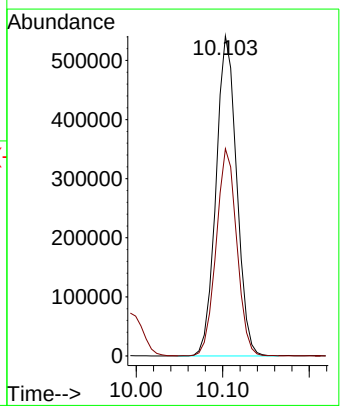
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

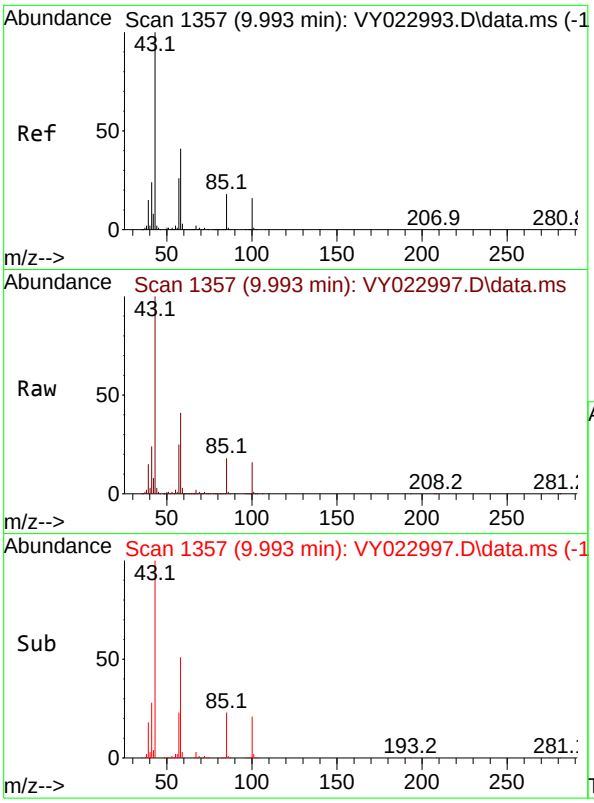


#50
Toluene-d8
Concen: 47.728 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 98 Resp: 896545

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.2

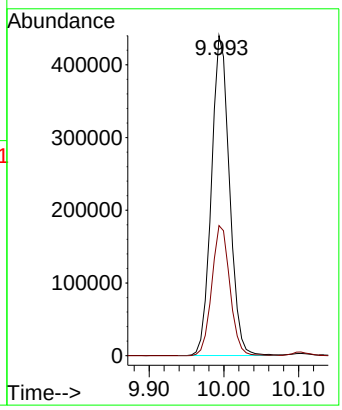




#51
4-Methyl-2-Pentanone
Concen: 263.650 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 73660

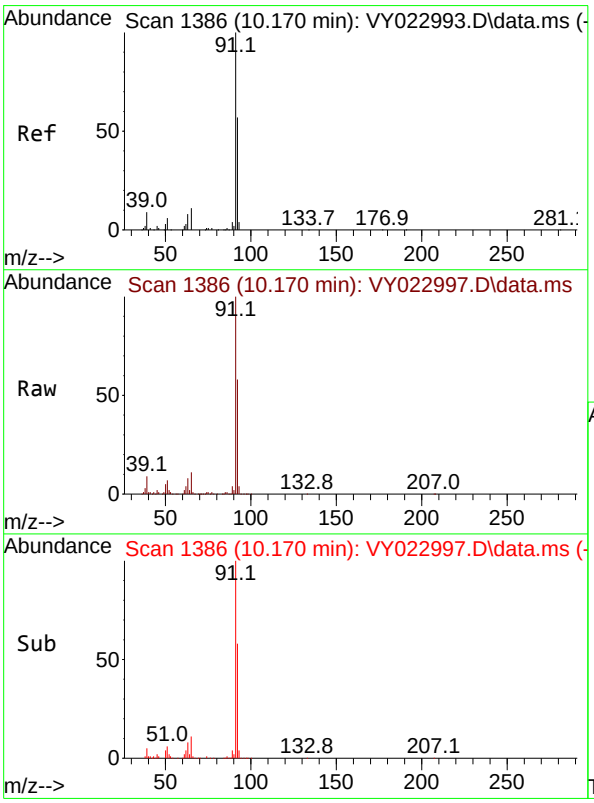
Ion	Ratio	Lower	Upper
43	100		
58	40.9	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

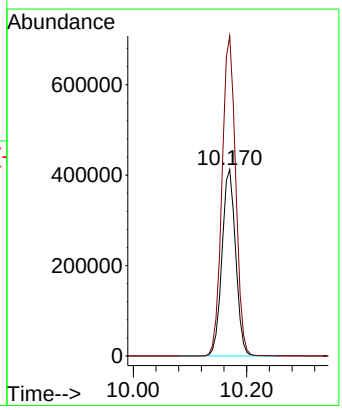
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

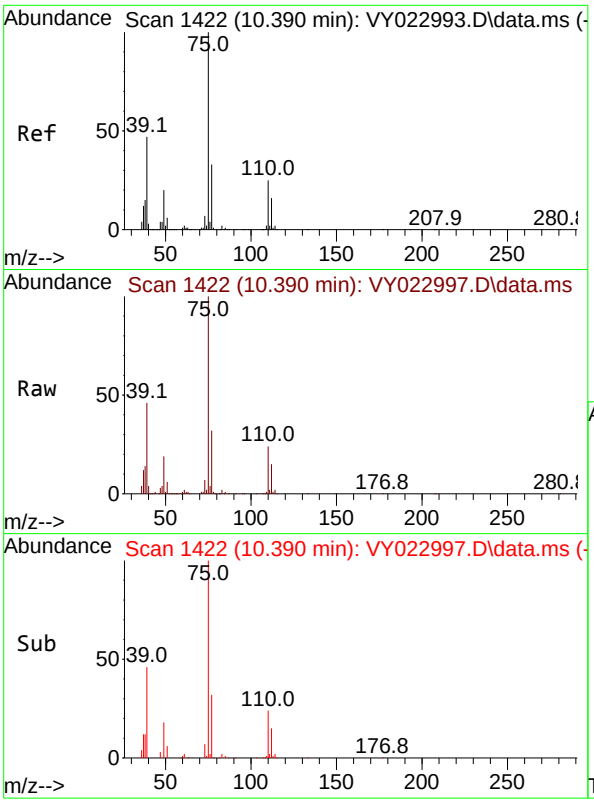


#52
Toluene
Concen: 49.377 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 92 Resp: 689665

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.8	206.6

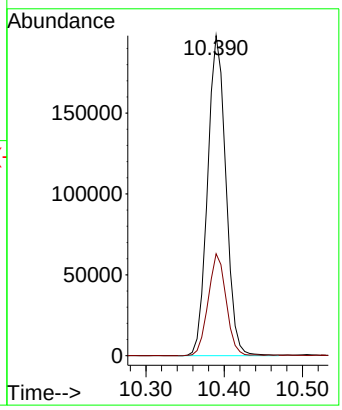




#53
t-1,3-Dichloropropene
Concen: 49.810 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 32049

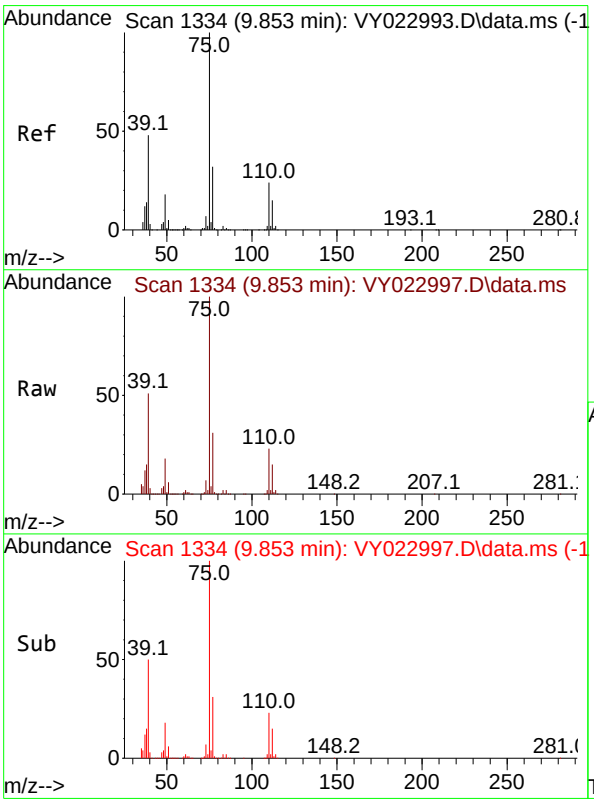
Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

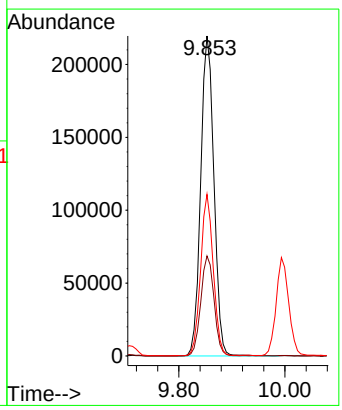
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

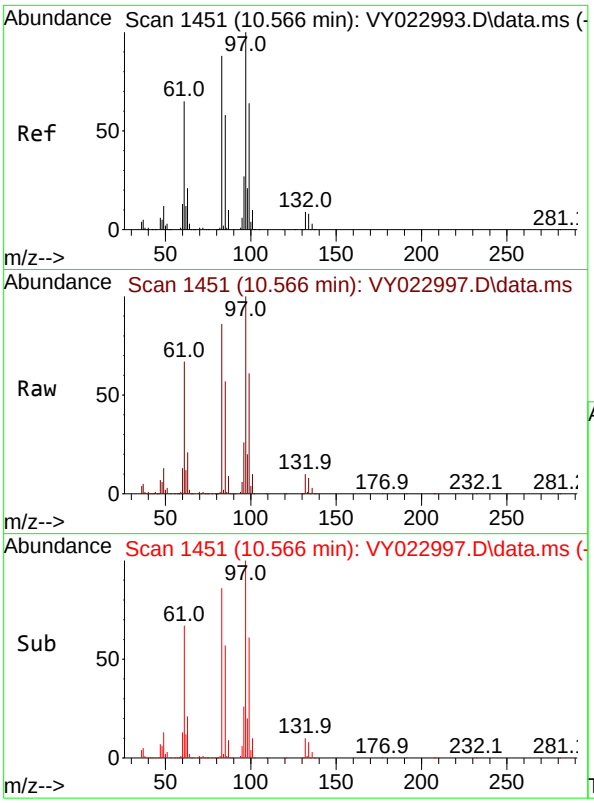


#54
cis-1,3-Dichloropropene
Concen: 48.953 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 379652

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	50.4	38.2	57.2

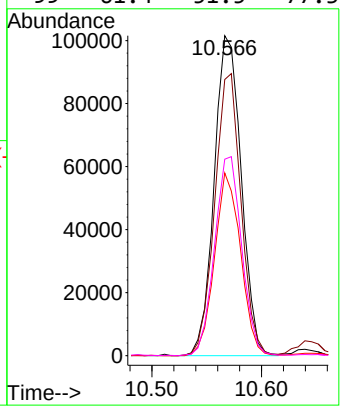




#55
1,1,2-Trichloroethane
Concen: 48.860 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 97 Resp: 17414

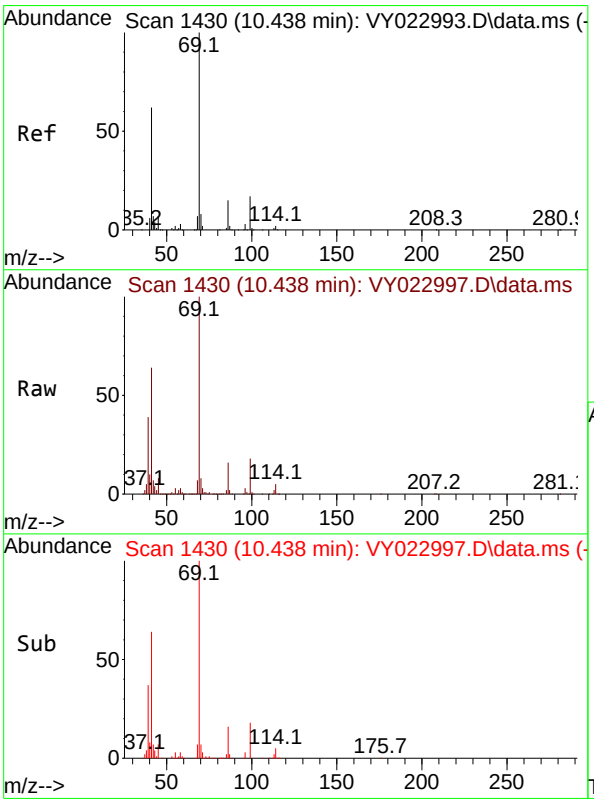
Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.2	105.2
85	57.1	46.2	69.2
99	61.4	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

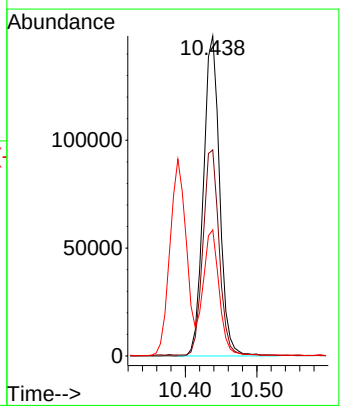
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

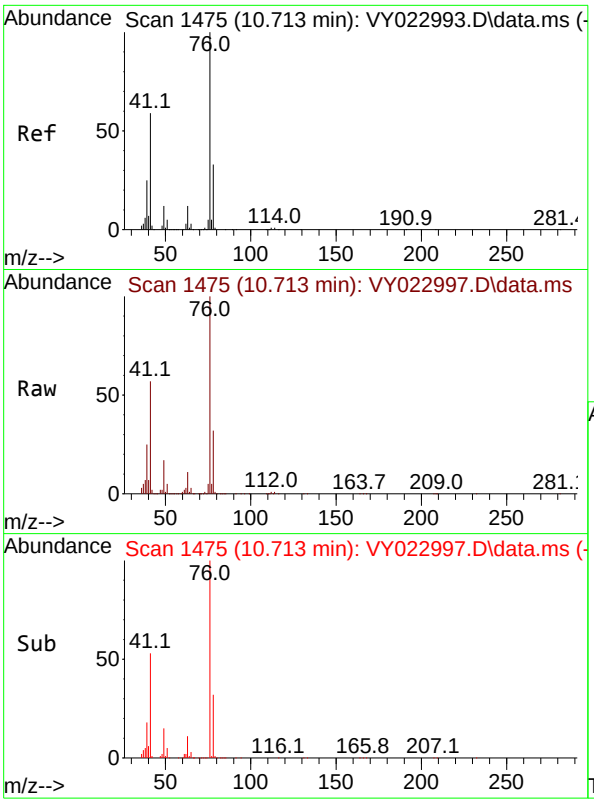


#56
Ethyl methacrylate
Concen: 52.383 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 69 Resp: 233062

Ion	Ratio	Lower	Upper
69	100		
41	64.6	51.0	76.4
39	38.6	30.6	46.0

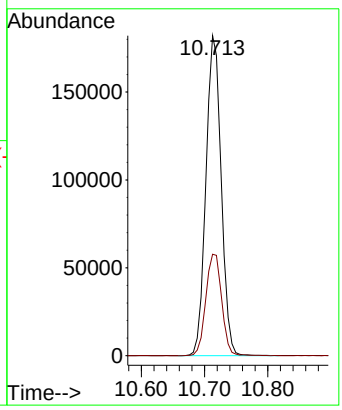




#57
1,3-Dichloropropane
Concen: 49.619 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 76 Resp: 30550

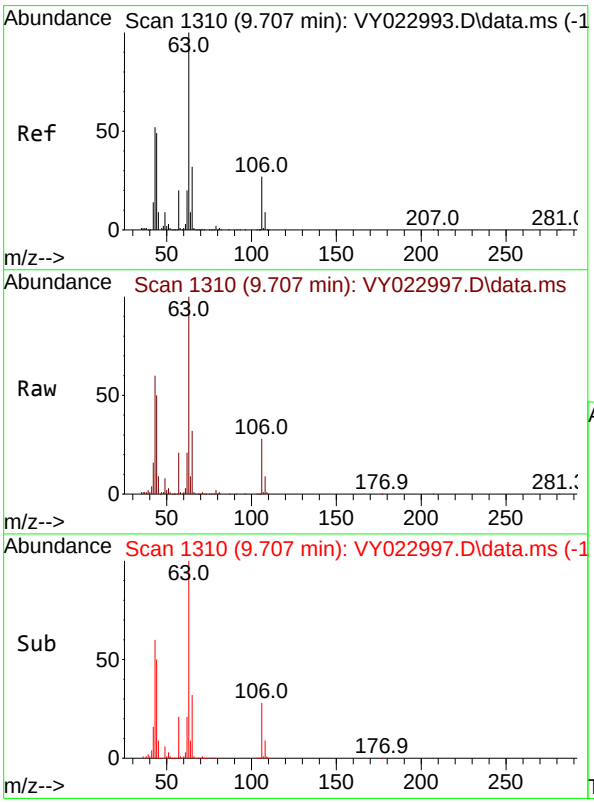
Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

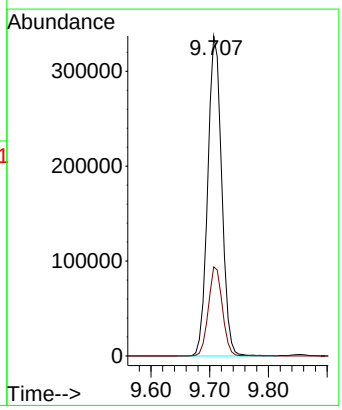
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

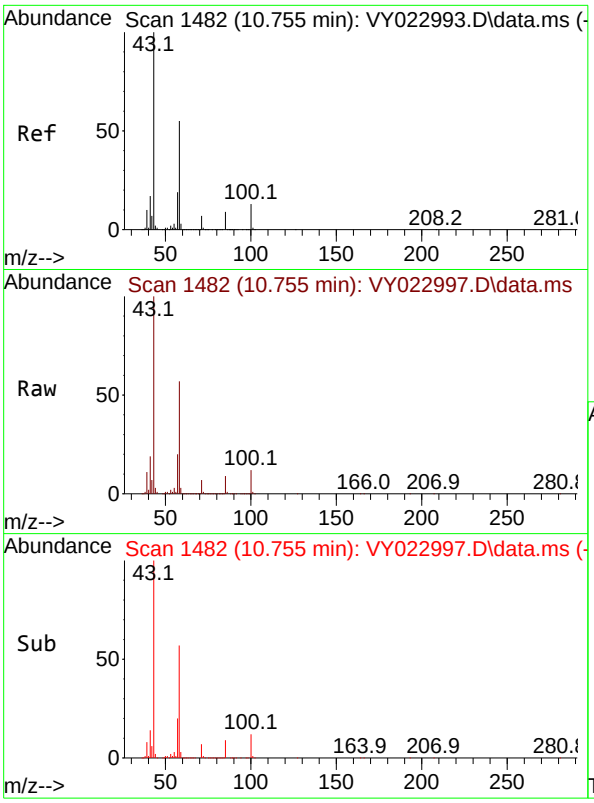


#58
2-Chloroethyl Vinyl ether
Concen: 255.234 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 63 Resp: 555885

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.6	33.8

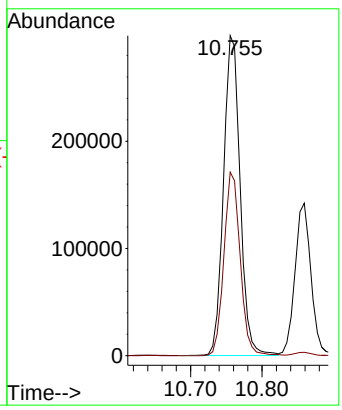




#59
2-Hexanone
Concen: 261.717 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 48063

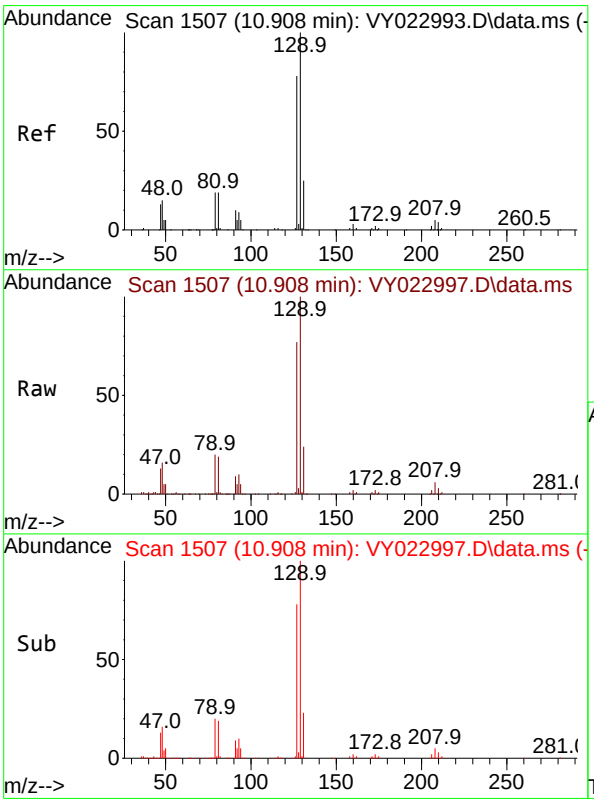
Ion	Ratio	Lower	Upper
43	100		
58	56.3	28.1	84.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

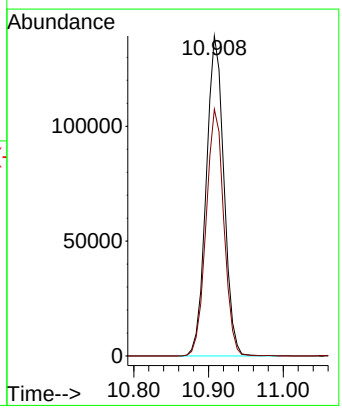
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

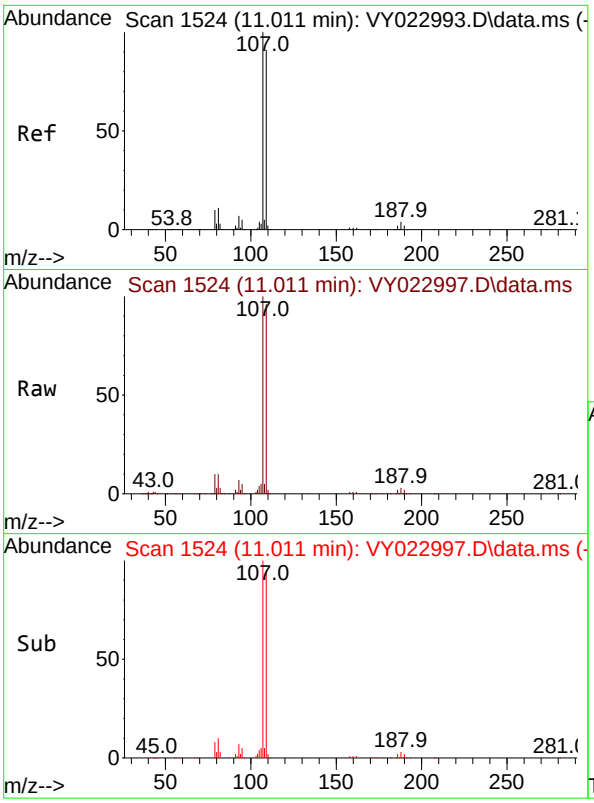


#60
Dibromochloromethane
Concen: 48.997 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:129 Resp: 228677

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.7	116.1





#61
1,2-Dibromoethane
Concen: 49.692 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

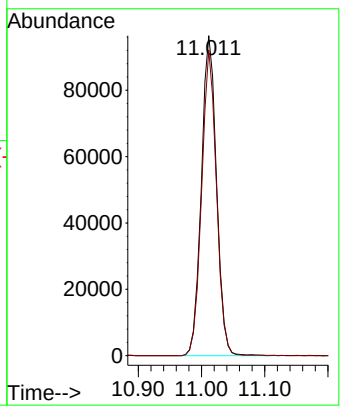
Tgt Ion:107 Resp: 16083

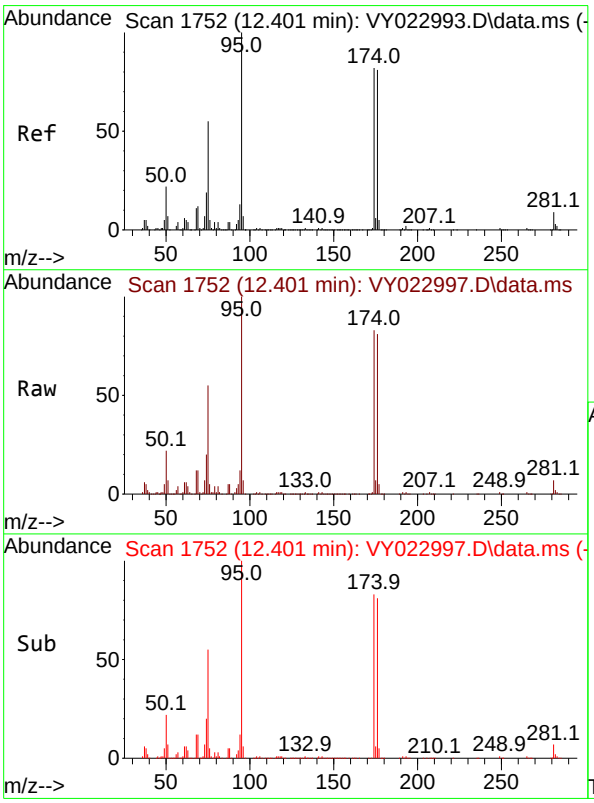
Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.1	112.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

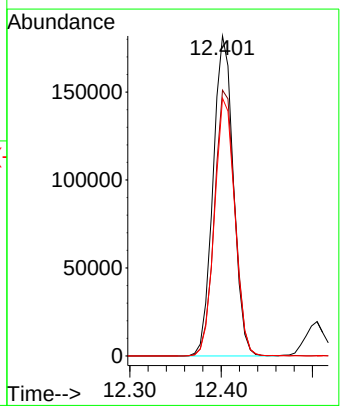


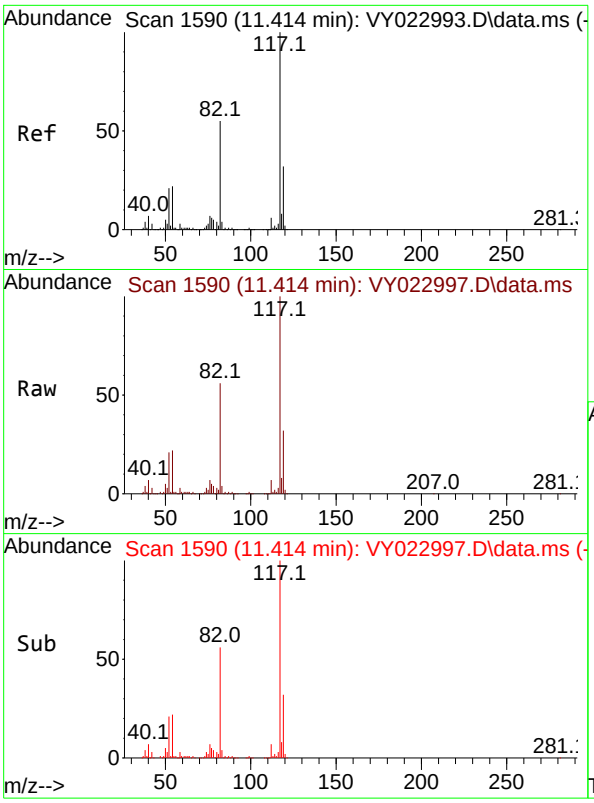


#62
4-Bromofluorobenzene
Concen: 47.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 95 Resp: 281129

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	170.8
176	80.9	0.0	163.6

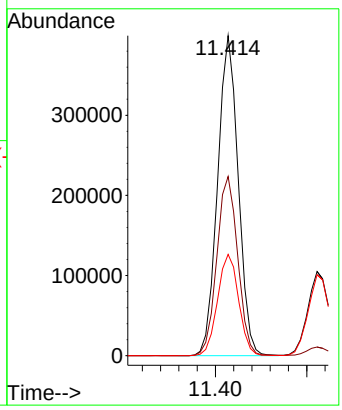




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:117 Resp: 62616

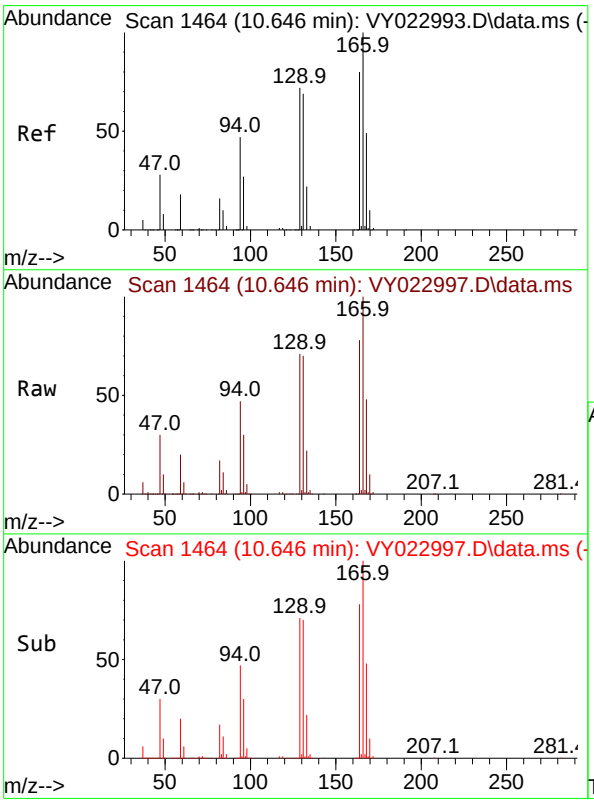
Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	31.7	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

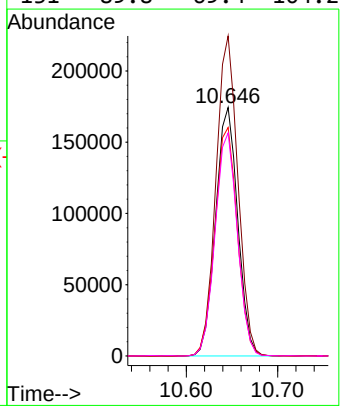
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

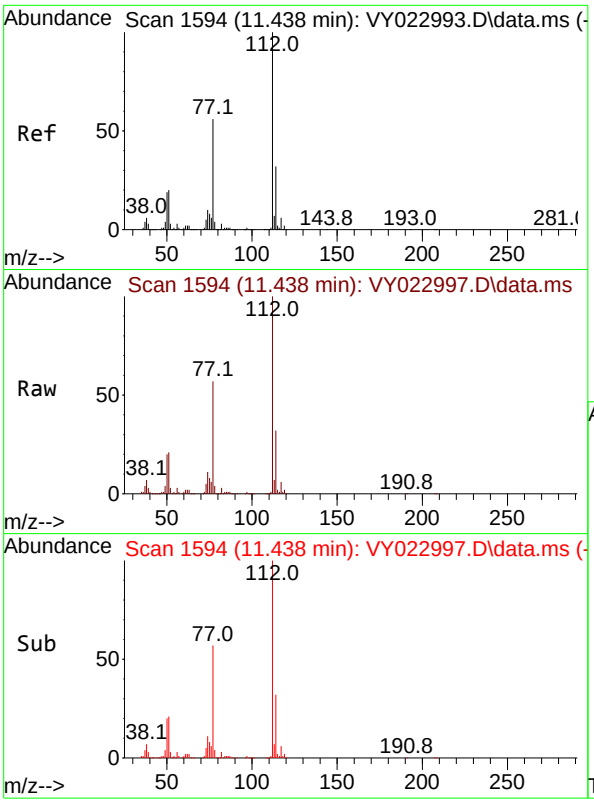


#64
Tetrachloroethene
Concen: 45.898 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:164 Resp: 293758

Ion	Ratio	Lower	Upper
164	100		
166	128.8	100.2	150.2
129	92.0	71.7	107.5
131	89.8	69.4	104.2

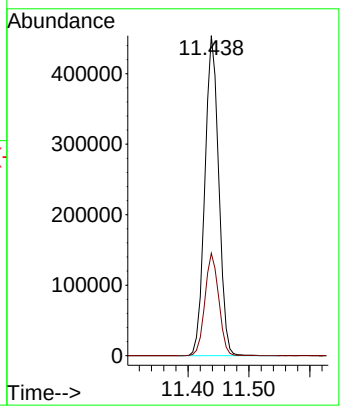




#65
Chlorobenzene
Concen: 48.547 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:112 Resp: 71731

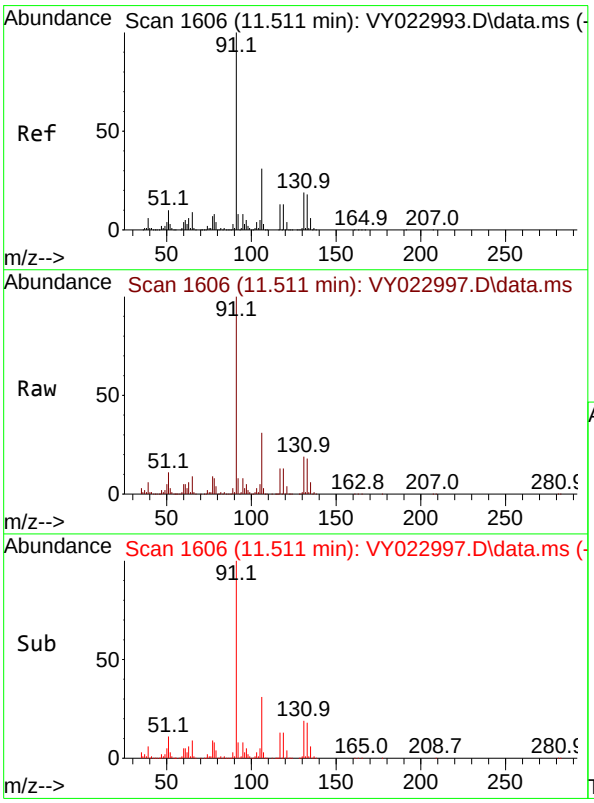
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

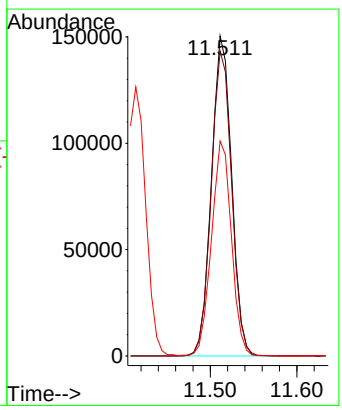
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

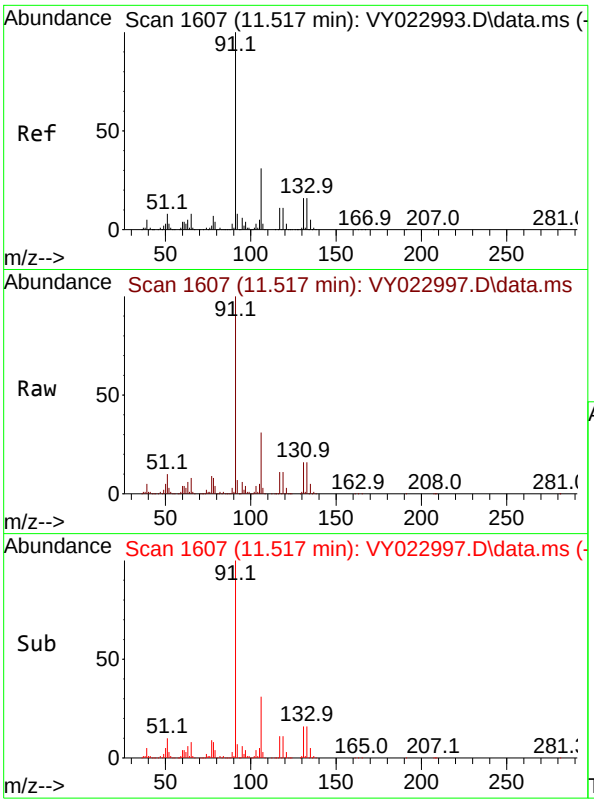


#66
1,1,1,2-Tetrachloroethane
Concen: 48.281 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:131 Resp: 243320

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.8	143.3
119	66.5	33.3	99.8

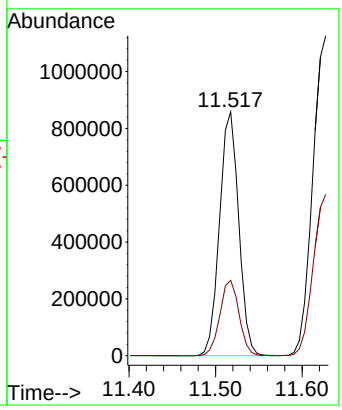




#67
Ethyl Benzene
Concen: 50.355 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 91 Resp: 131878

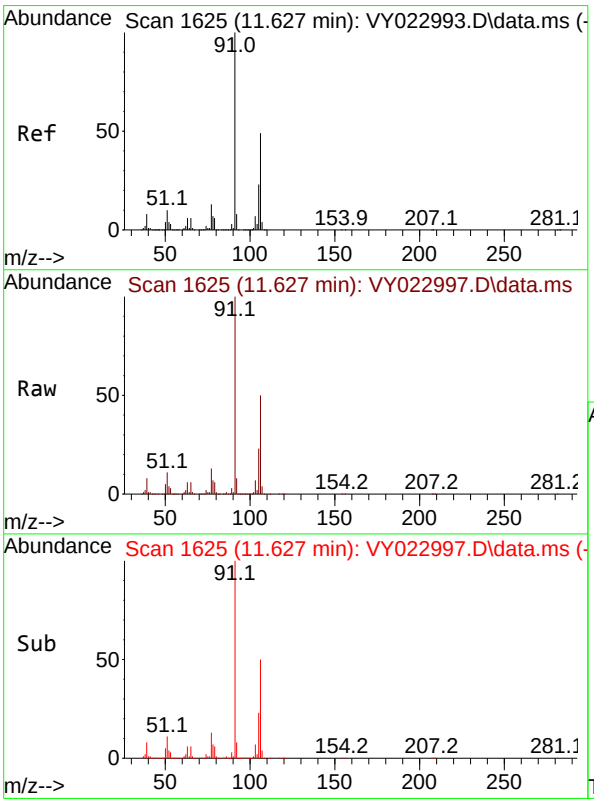
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

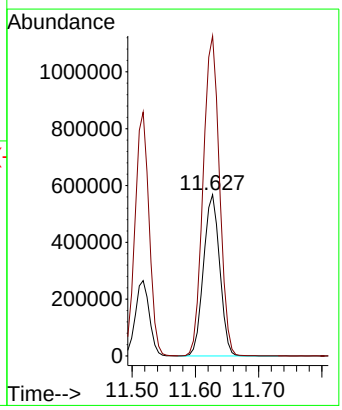
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

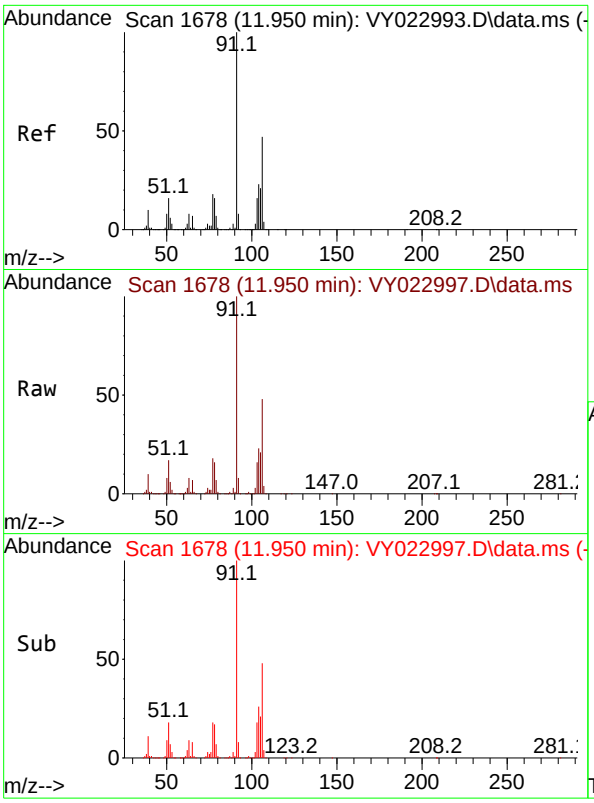


#68
m/p-Xylenes
Concen: 100.584 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:106 Resp: 1010405

Ion	Ratio	Lower	Upper
106	100		
91	199.9	159.8	239.8





#69
o-Xylene
Concen: 50.815 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

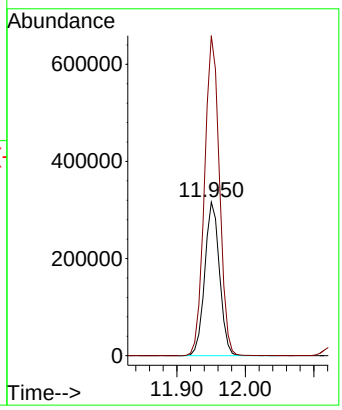
Tgt Ion:106 Resp: 47372

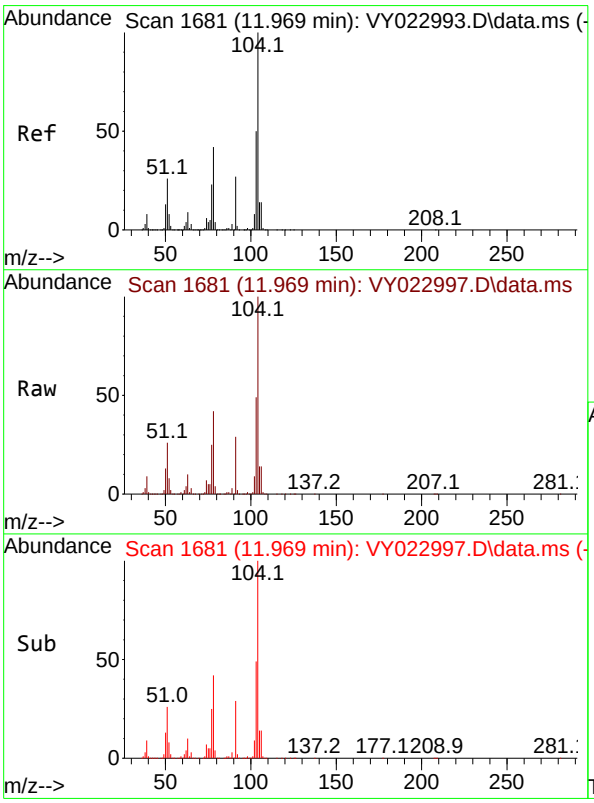
Ion	Ratio	Lower	Upper
106	100		
91	210.9	106.3	318.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

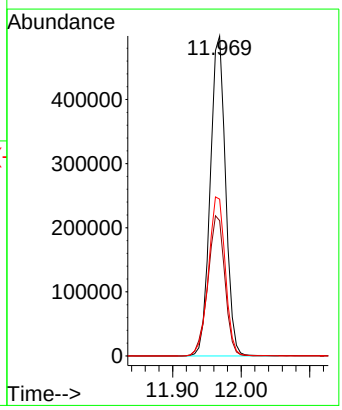


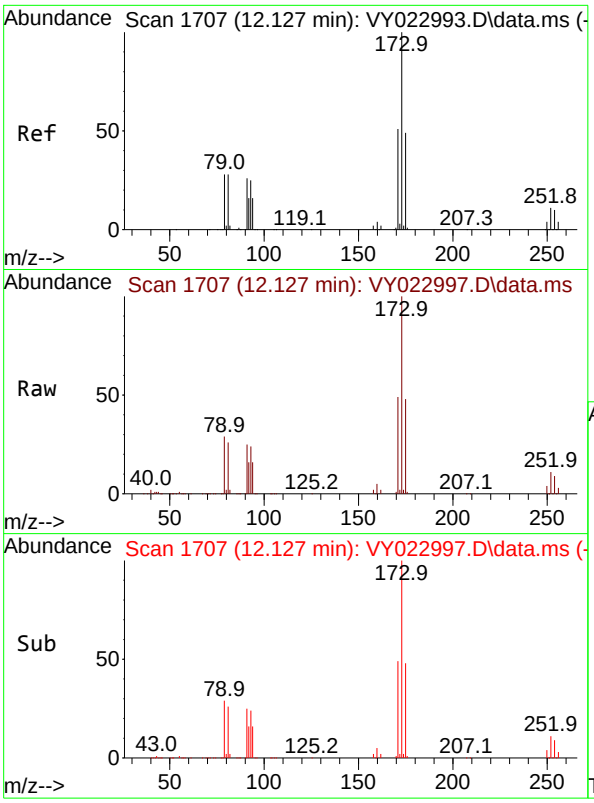


#70
Styrene
Concen: 50.903 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:104 Resp: 777326

Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.6
103	54.7	43.7	65.5

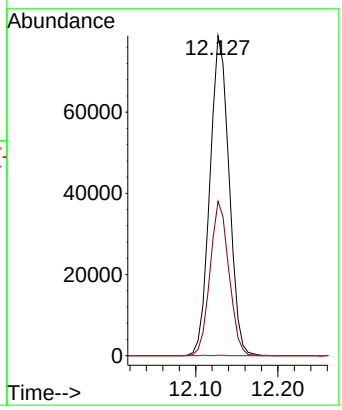




#71
Bromoform
Concen: 49.825 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:173 Resp: 12747

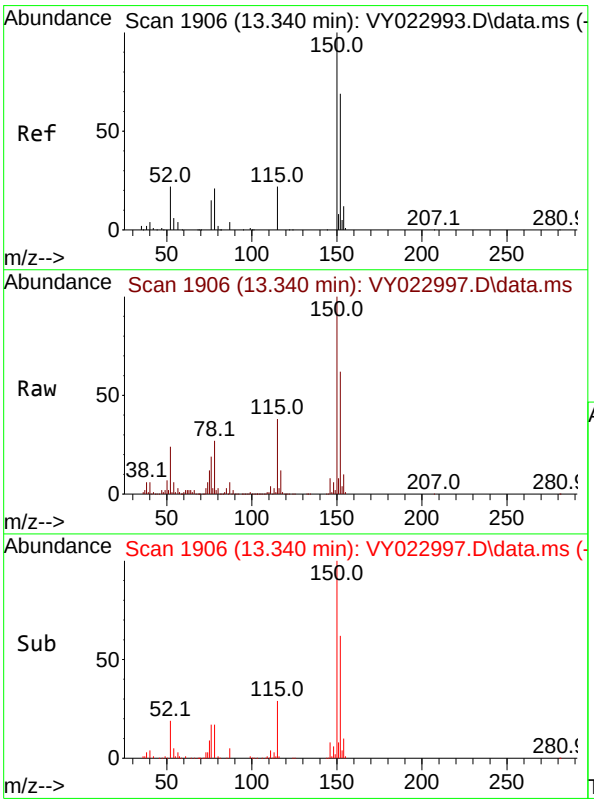
Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

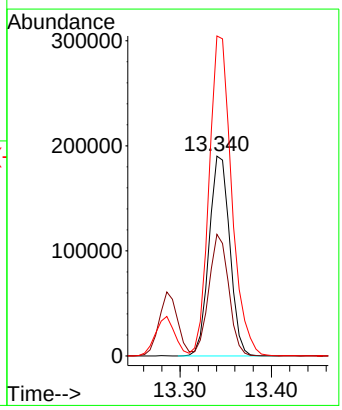
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

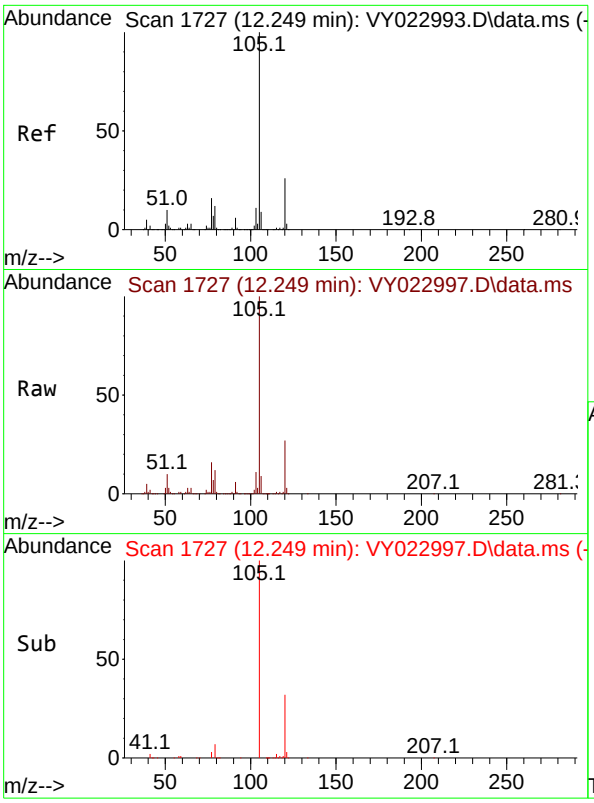


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:152 Resp: 299370

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	174.3	0.0	350.0

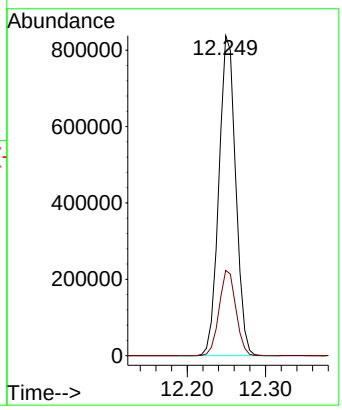




#73
Isopropylbenzene
Concen: 49.302 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:105 Resp: 125134

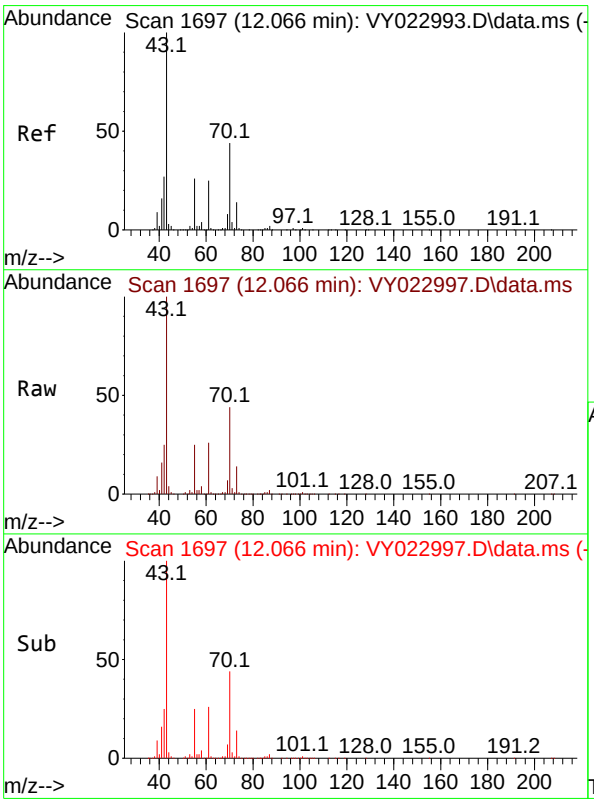
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

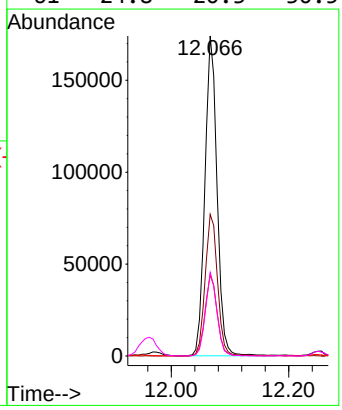
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

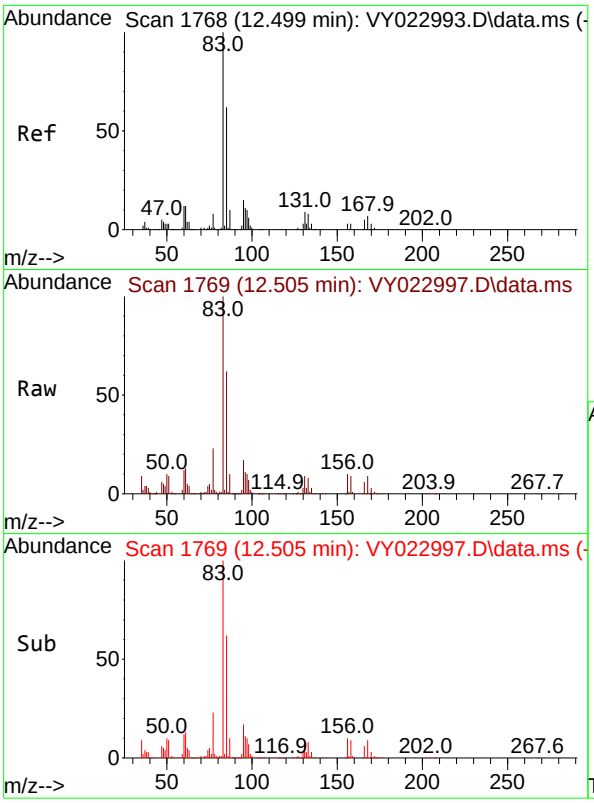


#74
N-amyl acetate
Concen: 52.247 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 250015

Ion	Ratio	Lower	Upper
43	100		
70	45.1	36.2	54.2
55	25.3	20.9	31.3
61	24.8	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 49.985 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

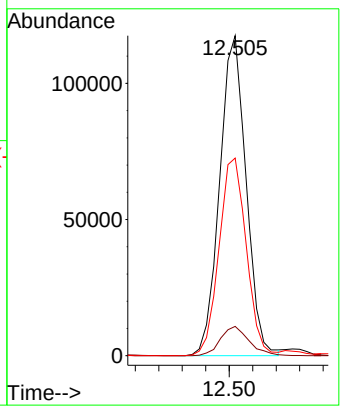
Tgt Ion: 83 Resp: 18359

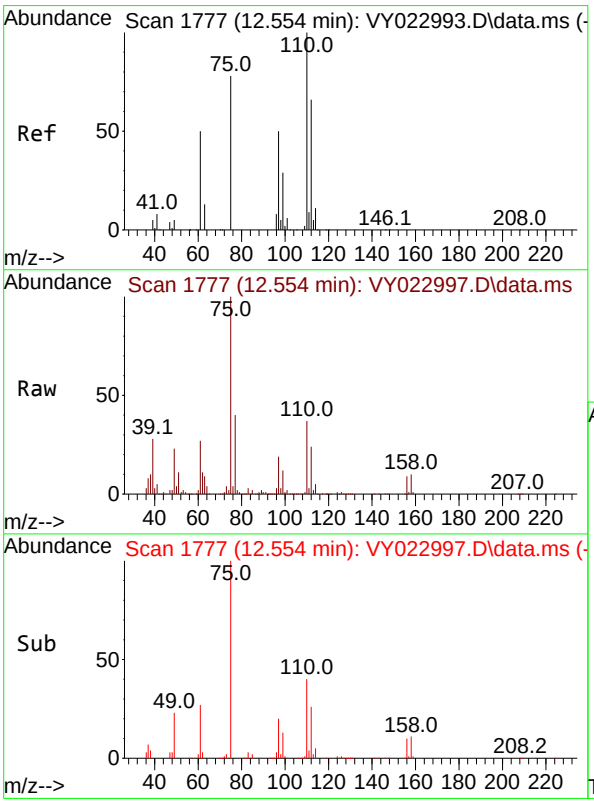
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.7	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

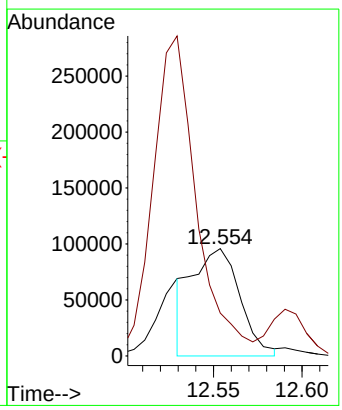


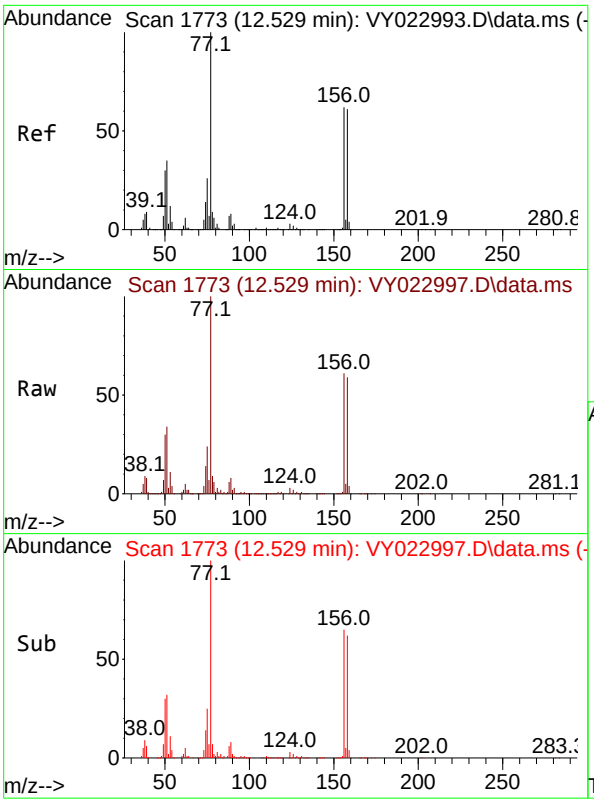


#76
1,2,3-Trichloropropane
Concen: 48.332 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 180298

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

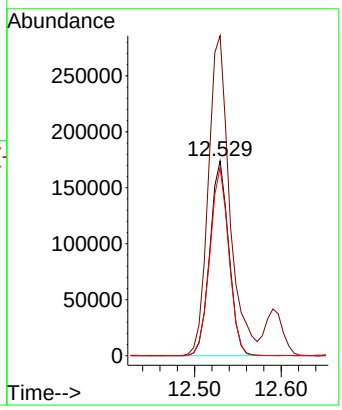




#77
Bromobenzene
Concen: 48.030 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:156 Resp: 26439

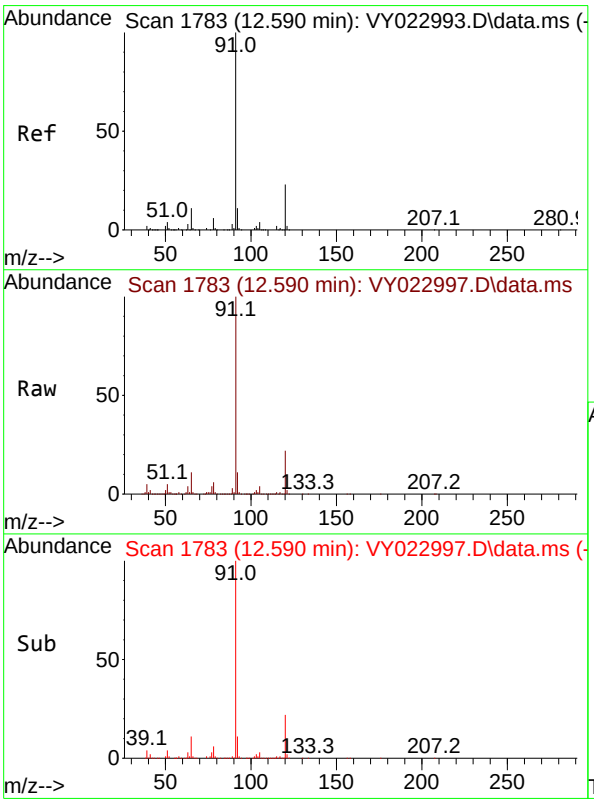
Ion	Ratio	Lower	Upper
156	100		
77	185.1	92.0	276.1
158	96.4	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

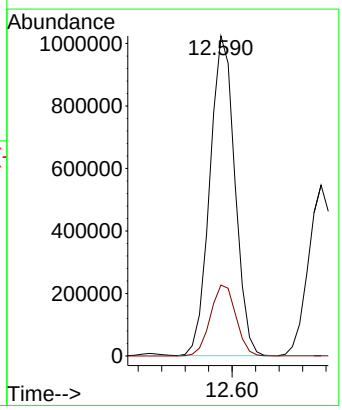
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

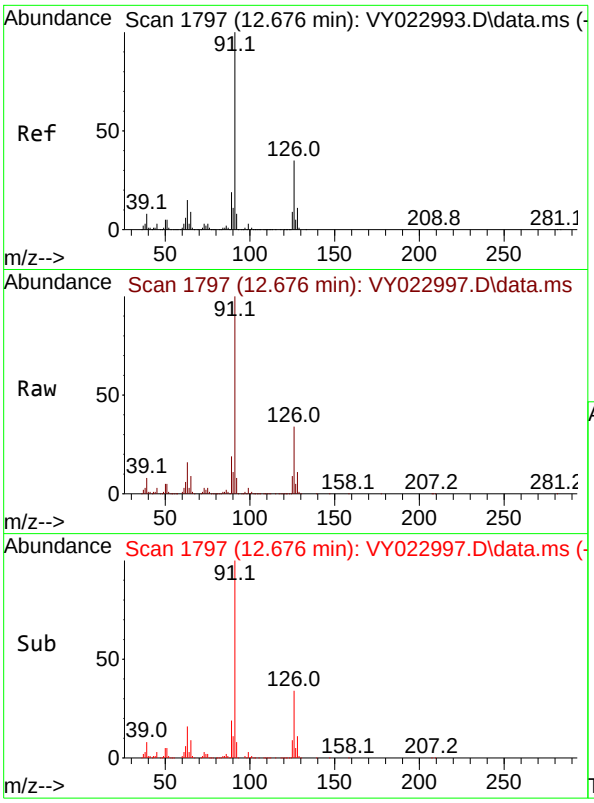


#78
n-propylbenzene
Concen: 50.062 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 91 Resp: 1513140

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.8





#79
2-Chlorotoluene
Concen: 49.359 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

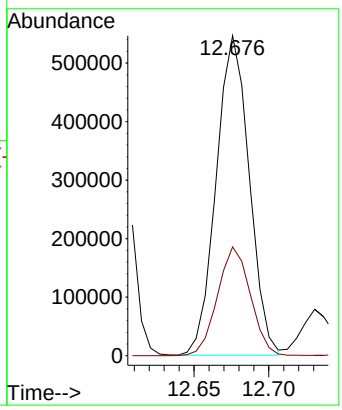
Tgt Ion: 91 Resp: 83905

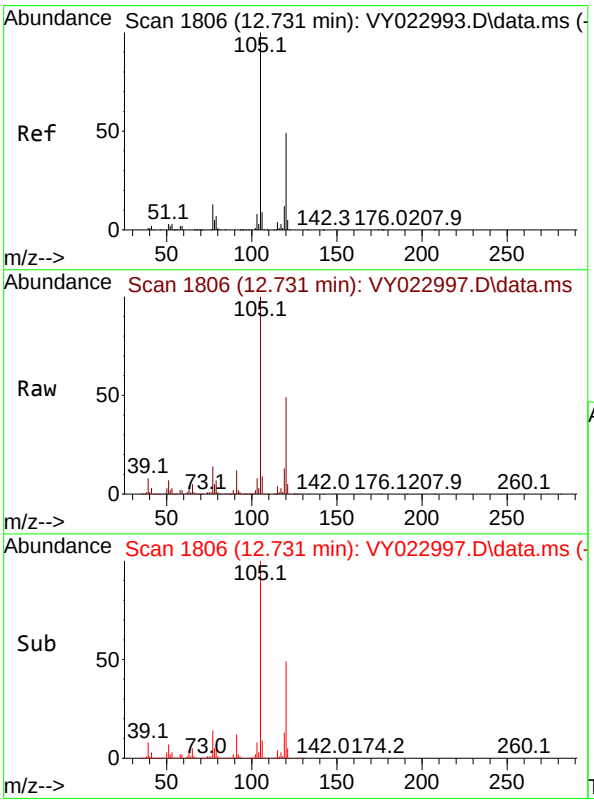
Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

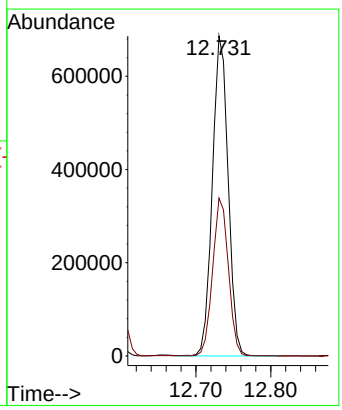


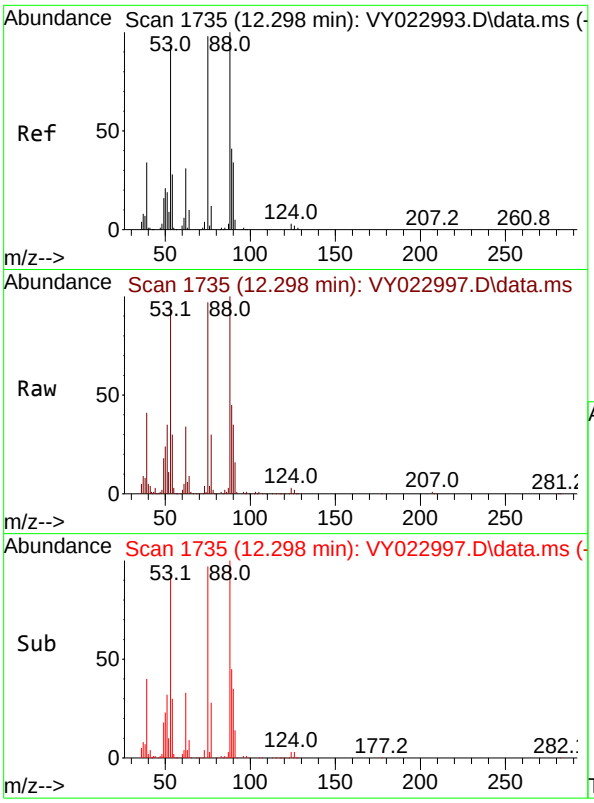


#80
1,3,5-Trimethylbenzene
Concen: 50.127 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:105 Resp: 1003448

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.6	73.8

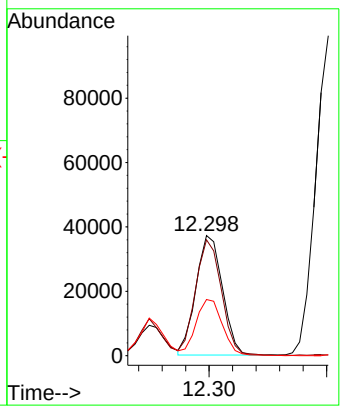




#81
trans-1,4-Dichloro-2-butene
Concen: 46.452 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 5817

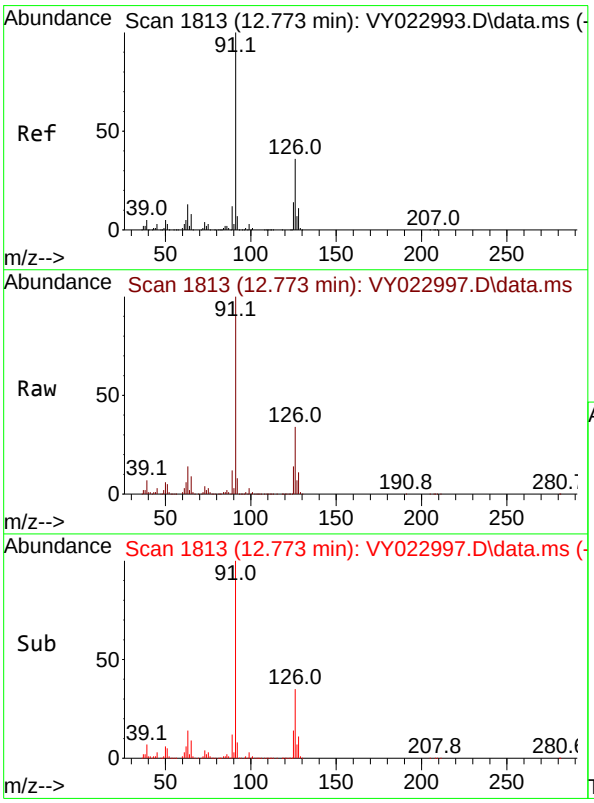
Ion	Ratio	Lower	Upper
75	100		
53	94.8	76.1	114.1
89	47.5	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

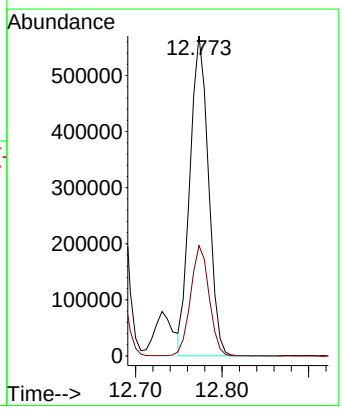
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

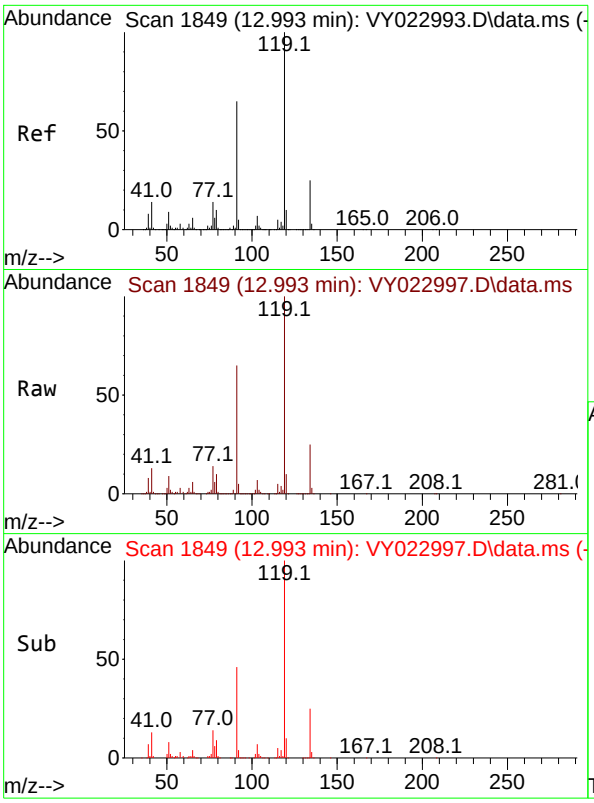


#82
4-Chlorotoluene
Concen: 49.261 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 91 Resp: 844578

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.2	51.5

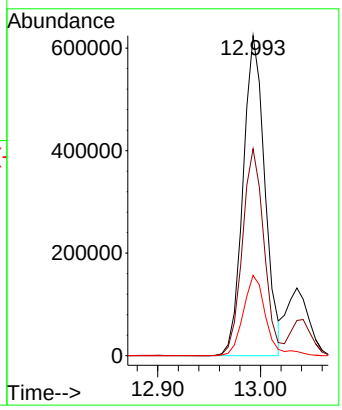




#83
tert-Butylbenzene
Concen: 50.676 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:119 Resp: 91632

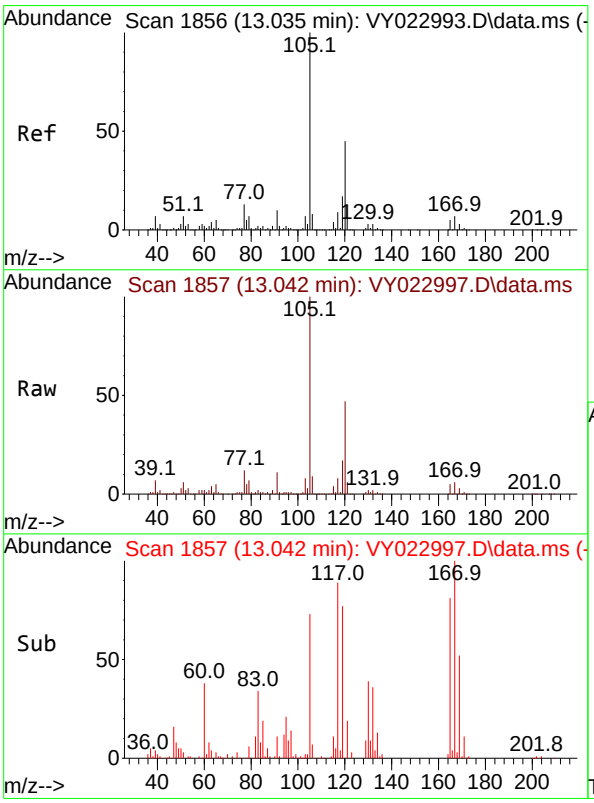
Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.0	96.2
134	26.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

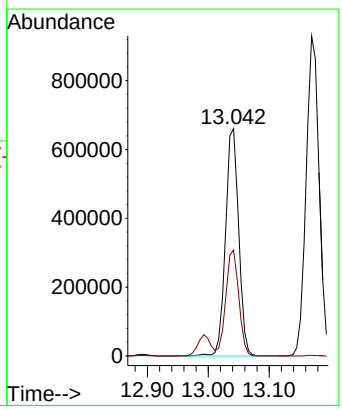
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

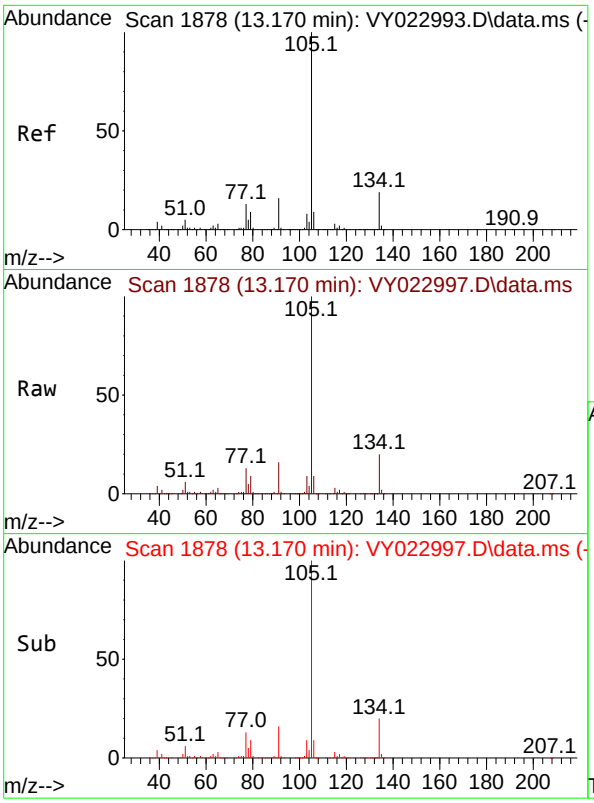


#84
1,2,4-Trimethylbenzene
Concen: 50.349 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:105 Resp: 992142

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.8

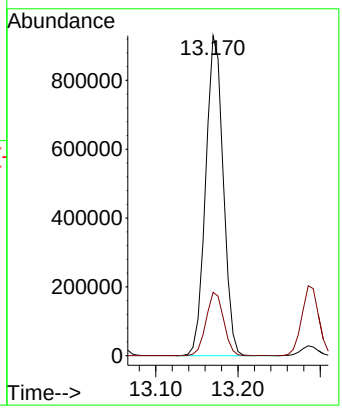




#85
sec-Butylbenzene
Concen: 50.832 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:105 Resp: 137742

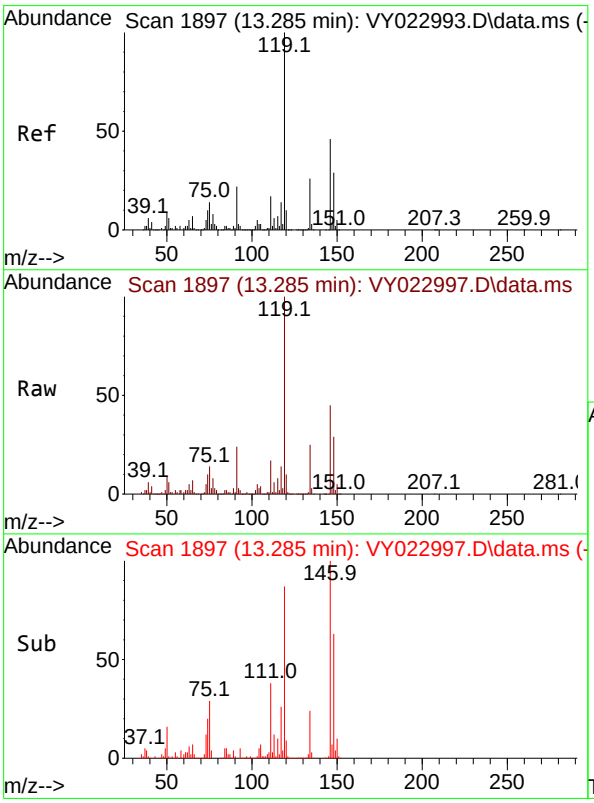
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

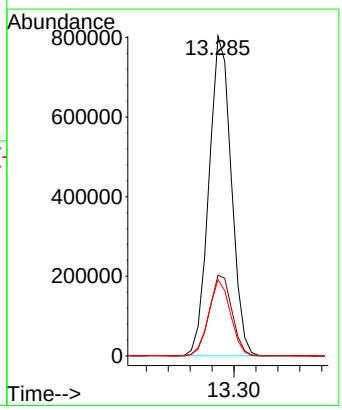
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

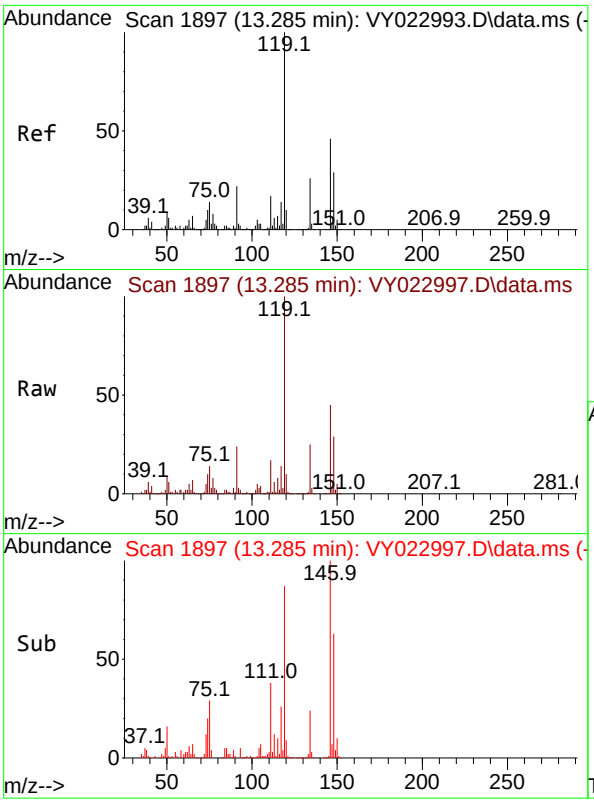


#86
p-Isopropyltoluene
Concen: 51.605 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:119 Resp: 1135708

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.1	39.1
91	23.2	11.4	34.1

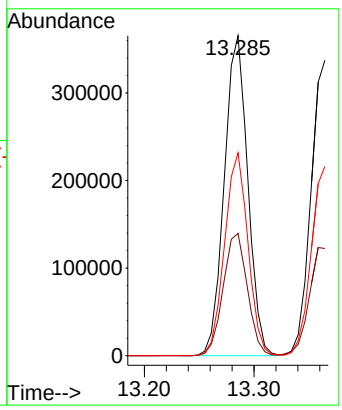




#87
1,3-Dichlorobenzene
Concen: 48.983 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:146 Resp: 54417

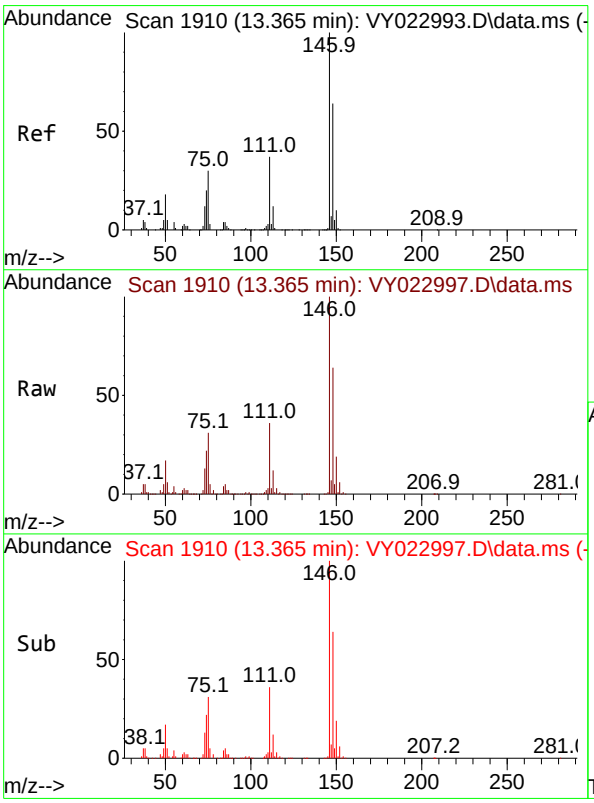
Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.2	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

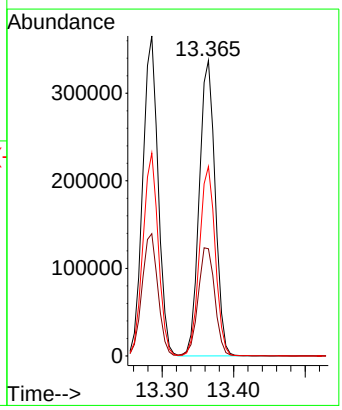
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

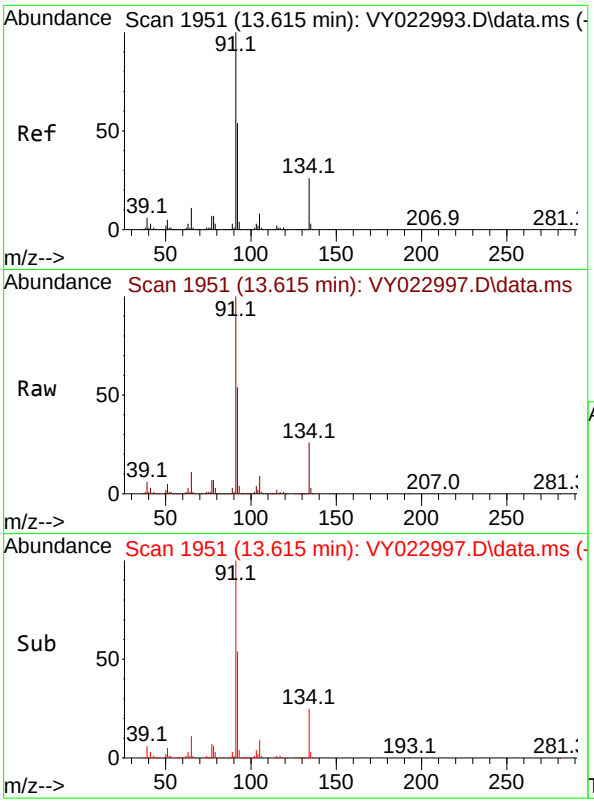


#88
1,4-Dichlorobenzene
Concen: 48.393 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:146 Resp: 520095

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	63.9	31.9	95.5

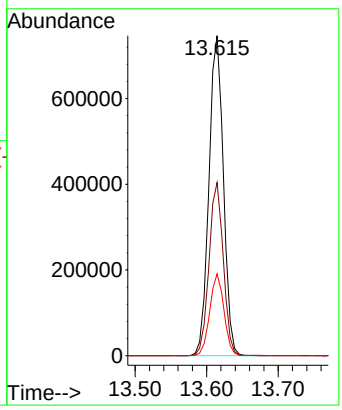




#89
n-Butylbenzene
Concen: 51.565 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 91 Resp: 104716

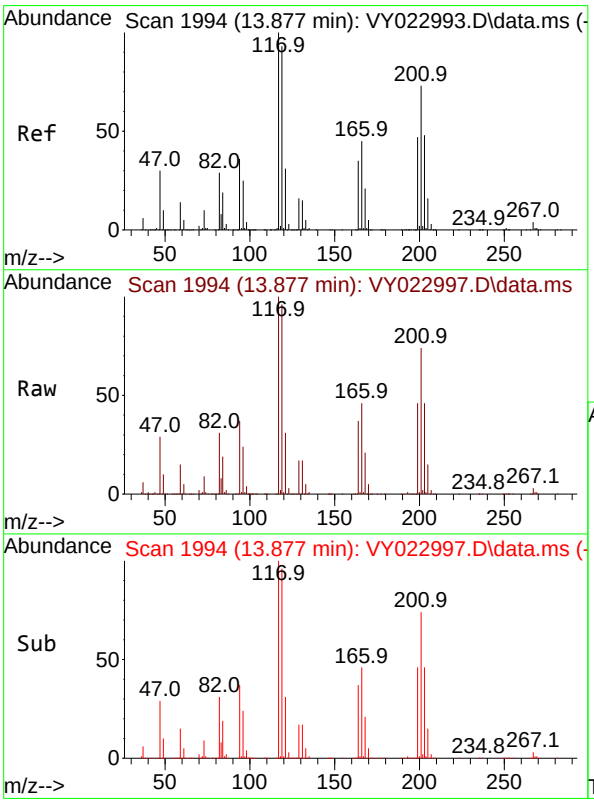
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

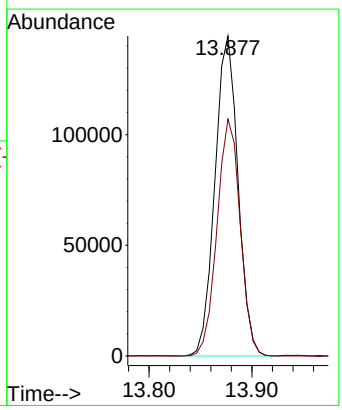
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

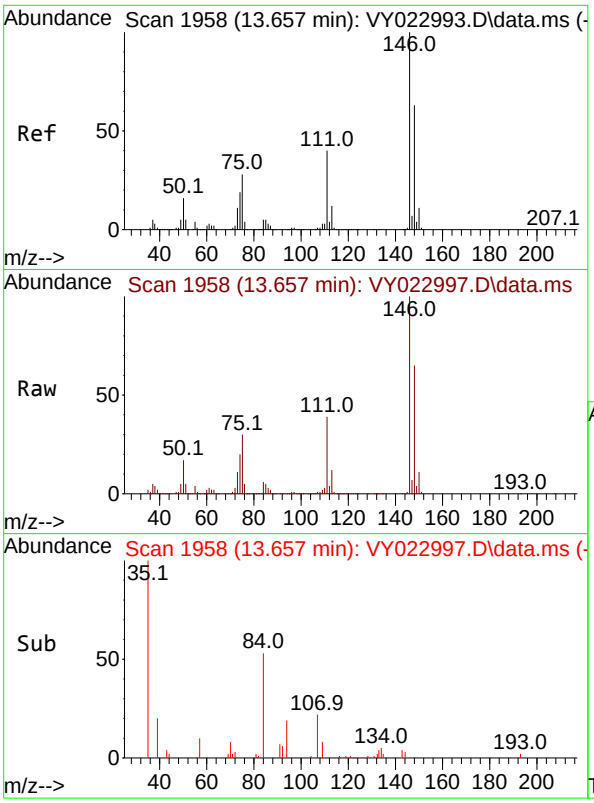


#90
Hexachloroethane
Concen: 49.436 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:117 Resp: 225252

Ion	Ratio	Lower	Upper
117	100		
201	74.3	36.1	108.5

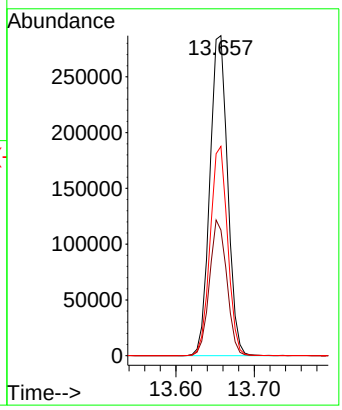




#91
1,2-Dichlorobenzene
Concen: 48.252 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:146 Resp: 45215

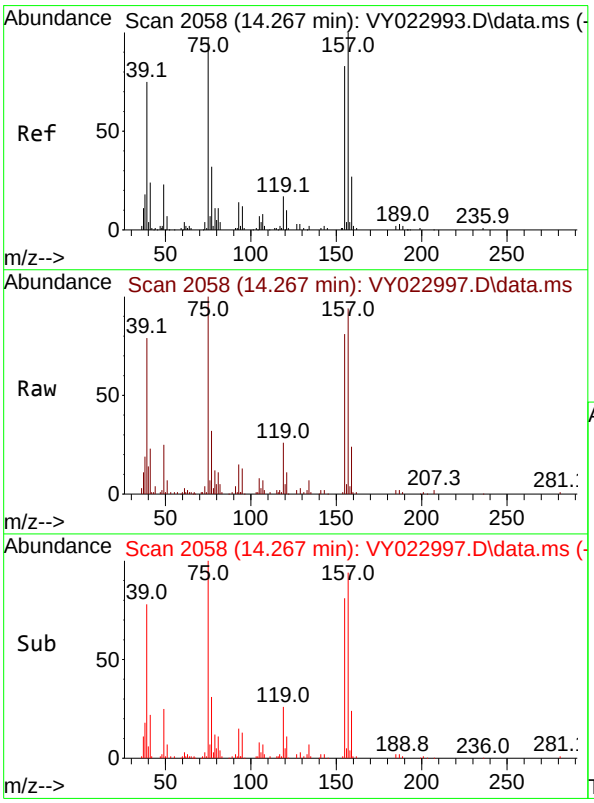
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	61.0
148	64.4	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

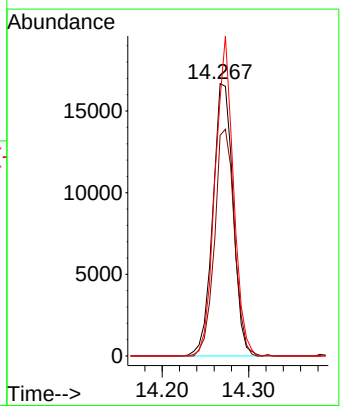
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

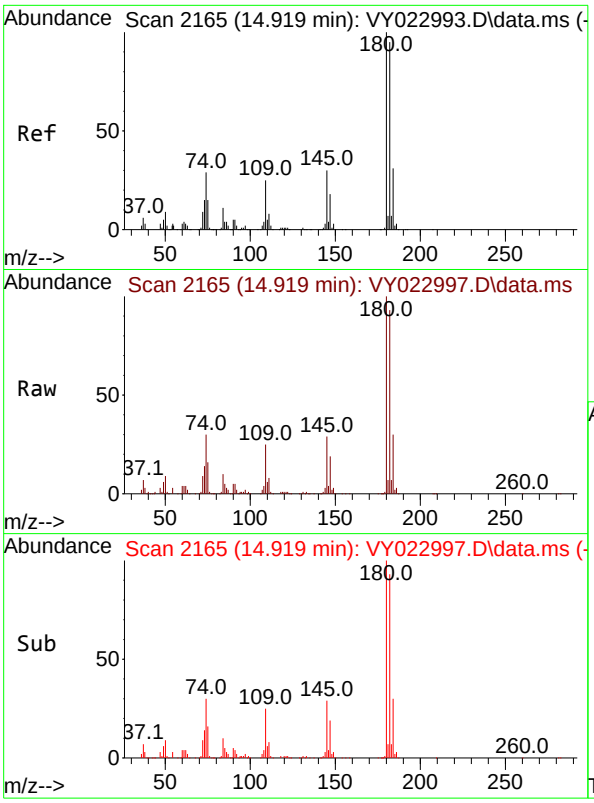


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.725 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 27119

Ion	Ratio	Lower	Upper
75	100		
155	81.3	42.8	128.3
157	106.0	54.3	162.9

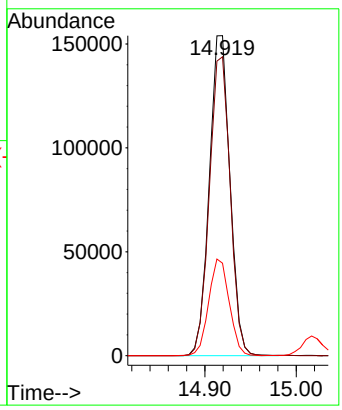




#93
1,2,4-Trichlorobenzene
Concen: 48.859 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:180 Resp: 24134

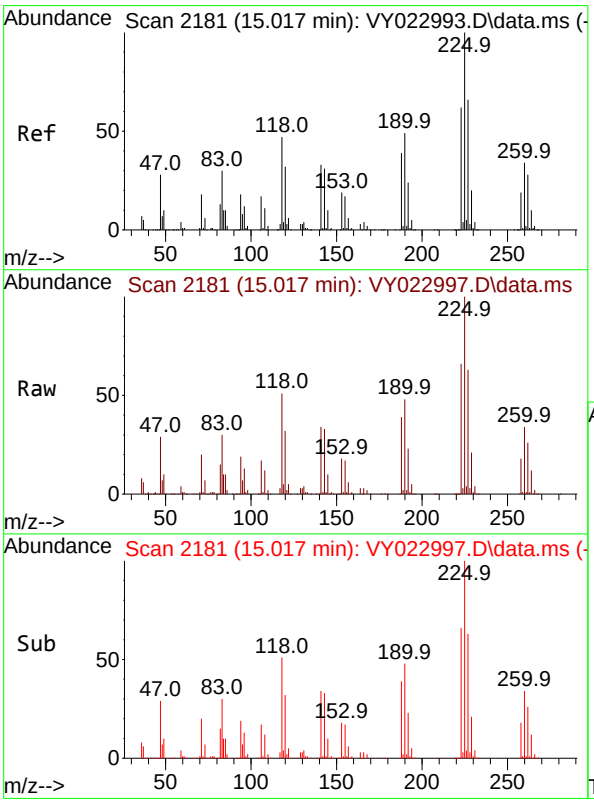
Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.5	142.5
145	30.1	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

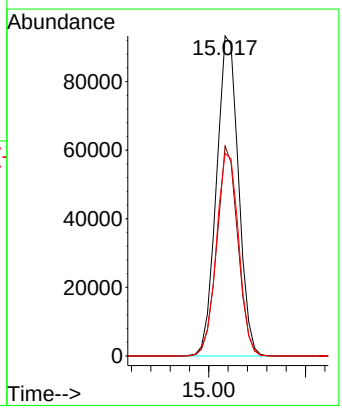
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

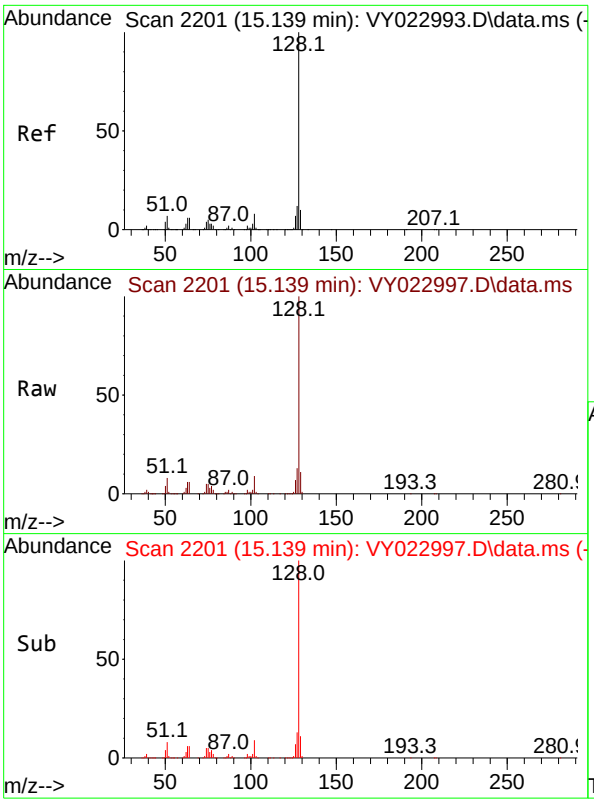


#94
Hexachlorobutadiene
Concen: 47.217 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:225 Resp: 147040

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.4	94.0
227	64.3	32.1	96.5

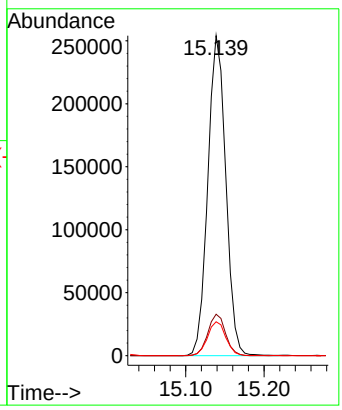




#95
Naphthalene
Concen: 51.062 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:128 Resp: 40453

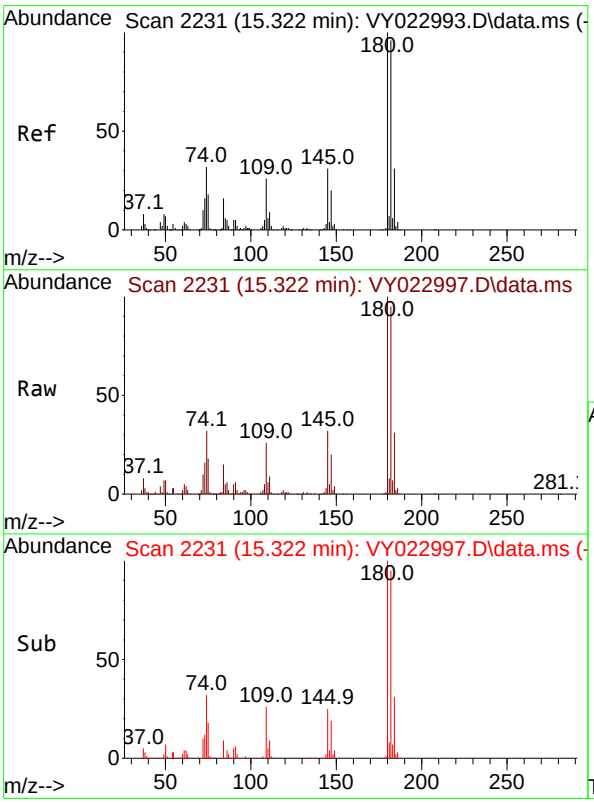
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Manual Integrations
APPROVED

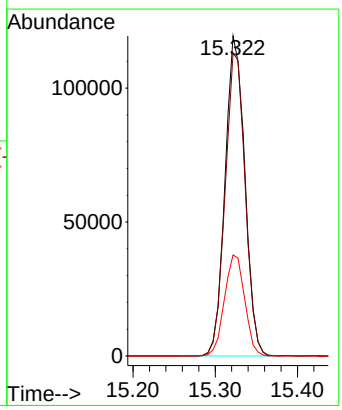
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.924 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:180 Resp: 199538

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	142.0
145	32.3	15.8	47.4



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	90	0.00
2	T	Dichlorodifluoromethane	0.425	0.388	8.7	95	0.00
3	P	Chloromethane	0.722	0.716	0.8	105	0.00
4	C	Vinyl Chloride	0.915	0.917	-0.2#	100	0.00
5	T	Bromomethane	0.660	0.653	1.1	106	0.00
6	T	Chloroethane	0.611	0.615	-0.7	100	0.00
7	T	Trichlorofluoromethane	1.062	1.025	3.5	95	0.00
8	T	Diethyl Ether	0.278	0.262	5.8	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.558	0.541	3.0	97	0.00
10	T	Methyl Iodide	0.579	0.532	8.1	85	0.00
11	T	Tert butyl alcohol	0.031	0.033	-6.5	100	0.00
12	CM	1,1-Dichloroethene	0.531	0.517	2.6#	98	0.00
13	T	Acrolein	0.014	0.008	42.9#	93	0.00
14	T	Allyl chloride	0.809	0.801	1.0	98	0.00
15	T	Acrylonitrile	0.105	0.108	-2.9	99	0.00
16	T	Acetone	0.092	0.080	13.0	94	0.00
17	T	Carbon Disulfide	1.610	1.546	4.0	97	0.00
18	T	Methyl Acetate	0.311	0.320	-2.9	89	0.00
19	T	Methyl tert-butyl Ether	1.274	1.286	-0.9	98	0.00
20	T	Methylene Chloride	0.871	0.638	26.8#	95	0.00
21	T	trans-1,2-Dichloroethene	0.591	0.582	1.5	99	0.00
22	T	Diisopropyl ether	1.717	1.751	-2.0	99	0.00
23	T	Vinyl Acetate	0.865	0.902	-4.3	101	0.00
24	P	1,1-Dichloroethane	1.079	1.073	0.6	98	0.00
25	T	2-Butanone	0.132	0.131	0.8	96	0.00
26	T	2,2-Dichloropropane	0.945	0.907	4.0	96	0.00
27	T	cis-1,2-Dichloroethene	0.682	0.677	0.7	97	0.00
28	T	Bromochloromethane	0.418	0.421	-0.7	95	0.00
29	T	Tetrahydrofuran	0.083	0.087	-4.8	97	0.00
30	C	Chloroform	1.088	1.071	1.6#	98	0.00
31	T	Cyclohexane	1.008	0.963	4.5	99	0.00
32	T	1,1,1-Trichloroethane	0.987	0.956	3.1	96	0.00
33	S	1,2-Dichloroethane-d4	0.506	0.499	1.4	95	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.317	0.299	5.7	94	0.00
36	T	1,1-Dichloropropene	0.500	0.482	3.6	97	0.00
37	T	Ethyl Acetate	0.186	0.182	2.2	98	0.00
38	T	Carbon Tetrachloride	0.543	0.517	4.8	96	0.00
39	T	Methylcyclohexane	0.647	0.643	0.6	100	0.00
40	TM	Benzene	1.504	1.467	2.5	98	0.00
41	T	Methacrylonitrile	0.101	0.103	-2.0	98	0.00
42	TM	1,2-Dichloroethane	0.374	0.366	2.1	97	0.00
43	T	Isopropyl Acetate	0.369	0.379	-2.7	98	0.00
44	TM	Trichloroethene	0.386	0.363	6.0	94	0.00
45	C	1,2-Dichloropropane	0.351	0.341	2.8#	99	0.00
46	T	Dibromomethane	0.182	0.175	3.8	95	0.00
47	T	Bromodichloromethane	0.502	0.489	2.6	98	0.00
48	T	Methyl methacrylate	0.178	0.185	-3.9	97	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	99	0.00
50	S	Toluene-d8	1.258	1.201	4.5	94	0.00
51	T	4-Methyl-2-Pentanone	0.187	0.197	-5.3	98	0.00
52	CM	Toluene	0.935	0.924	1.2#	98	0.00
53	T	t-1,3-Dichloropropene	0.431	0.429	0.5	98	0.00
54	T	cis-1,3-Dichloropropene	0.519	0.508	2.1	98	0.00
55	T	1,1,2-Trichloroethane	0.239	0.233	2.5	97	0.00
56	T	Ethyl methacrylate	0.298	0.312	-4.7	98	0.00
57	T	1,3-Dichloropropane	0.412	0.409	0.7	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.149	-2.1	90	0.00
59	T	2-Hexanone	0.123	0.129	-4.9	96	0.00
60	T	Dibromochloromethane	0.312	0.306	1.9	96	0.00
61	T	1,2-Dibromoethane	0.217	0.215	0.9	97	0.00
62	S	4-Bromofluorobenzene	0.396	0.376	5.1	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.511	0.469	8.2	86	0.00
65	PM	Chlorobenzene	1.180	1.146	2.9	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.389	3.2	97	0.00
67	C	Ethyl Benzene	2.091	2.106	-0.7#	99	0.00
68	T	m/p-Xylenes	0.802	0.807	-0.6	99	0.00
69	T	o-Xylene	0.744	0.757	-1.7	100	0.00
70	T	Styrene	1.219	1.241	-1.8	99	0.00
71	P	Bromoform	0.204	0.204	0.0	99	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	4.239	4.180	1.4	99	0.00
74	T	N-amyl acetate	0.799	0.835	-4.5	101	0.00
75	P	1,1,2,2-Tetrachloroethane	0.613	0.613	0.0	105	0.00
76	T	1,2,3-Trichloropropane	0.623	0.602	3.4	97	0.00
77	T	Bromobenzene	0.919	0.883	3.9	98	0.00
78	T	n-propylbenzene	5.048	5.054	-0.1	100	0.00
79	T	2-Chlorotoluene	2.839	2.803	1.3	101	0.00
80	T	1,3,5-Trimethylbenzene	3.343	3.352	-0.3	100	0.00
81	T	trans-1,4-Dichloro-2-butene	0.209	0.194	7.2	93	0.00
82	T	4-Chlorotoluene	2.864	2.821	1.5	99	0.00
83	T	tert-Butylbenzene	3.020	3.061	-1.4	101	0.00
84	T	1,2,4-Trimethylbenzene	3.291	3.314	-0.7	101	0.00
85	T	sec-Butylbenzene	4.526	4.601	-1.7	102	0.00
86	T	p-Isopropyltoluene	3.676	3.794	-3.2	102	0.00
87	T	1,3-Dichlorobenzene	1.855	1.818	2.0	100	0.00
88	T	1,4-Dichlorobenzene	1.795	1.737	3.2	99	0.00
89	T	n-Butylbenzene	3.392	3.498	-3.1	103	0.00
90	T	Hexachloroethane	0.761	0.752	1.2	102	0.00
91	T	1,2-Dichlorobenzene	1.565	1.510	3.5	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.091	0.091	0.0	97	0.00
93	T	1,2,4-Trichlorobenzene	0.825	0.806	2.3	98	0.00
94	T	Hexachlorobutadiene	0.520	0.491	5.6	100	0.00
95	T	Naphthalene	1.323	1.351	-2.1	94	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	0.681	0.667	2.1	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	90	0.00
2	T	Dichlorodifluoromethane	50.000	45.684	8.6	95	0.00
3	P	Chloromethane	50.000	49.585	0.8	105	0.00
4	C	Vinyl Chloride	50.000	50.127	-0.3#	100	0.00
5	T	Bromomethane	50.000	49.431	1.1	106	0.00
6	T	Chloroethane	50.000	50.317	-0.6	100	0.00
7	T	Trichlorofluoromethane	50.000	48.293	3.4	95	0.00
8	T	Diethyl Ether	50.000	47.110	5.8	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.497	3.0	97	0.00
10	T	Methyl Iodide	50.000	45.946	8.1	85	0.00
11	T	Tert butyl alcohol	250.000	265.607	-6.2	100	0.00
12	CM	1,1-Dichloroethene	50.000	48.659	2.7#	98	0.00
13	T	Acrolein	250.000	131.522	47.4#	93	0.00
14	T	Allyl chloride	50.000	49.474	1.1	98	0.00
15	T	Acrylonitrile	250.000	256.502	-2.6	99	0.00
16	T	Acetone	250.000	218.434	12.6	94	0.00
17	T	Carbon Disulfide	50.000	47.999	4.0	97	0.00
18	T	Methyl Acetate	50.000	51.459	-2.9	89	0.00
19	T	Methyl tert-butyl Ether	50.000	50.446	-0.9	98	0.00
20	T	Methylene Chloride	50.000	49.355	1.3	95	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.197	1.6	99	0.00
22	T	Diisopropyl ether	50.000	50.987	-2.0	99	0.00
23	T	Vinyl Acetate	250.000	260.680	-4.3	101	0.00
24	P	1,1-Dichloroethane	50.000	49.723	0.6	98	0.00
25	T	2-Butanone	250.000	248.403	0.6	96	0.00
26	T	2,2-Dichloropropane	50.000	47.970	4.1	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.681	0.6	97	0.00
28	T	Bromochloromethane	50.000	50.281	-0.6	95	0.00
29	T	Tetrahydrofuran	250.000	262.377	-5.0	97	0.00
30	C	Chloroform	50.000	49.239	1.5#	98	0.00
31	T	Cyclohexane	50.000	47.772	4.5	99	0.00
32	T	1,1,1-Trichloroethane	50.000	48.396	3.2	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.273	1.5	95	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	47.188	5.6	94	0.00
36	T	1,1-Dichloropropene	50.000	48.190	3.6	97	0.00
37	T	Ethyl Acetate	50.000	49.138	1.7	98	0.00
38	T	Carbon Tetrachloride	50.000	47.594	4.8	96	0.00
39	T	Methylcyclohexane	50.000	49.705	0.6	100	0.00
40	TM	Benzene	50.000	48.756	2.5	98	0.00
41	T	Methacrylonitrile	50.000	51.019	-2.0	98	0.00
42	TM	1,2-Dichloroethane	50.000	48.885	2.2	97	0.00
43	T	Isopropyl Acetate	50.000	51.356	-2.7	98	0.00
44	TM	Trichloroethene	50.000	46.984	6.0	94	0.00
45	C	1,2-Dichloropropane	50.000	48.601	2.8#	99	0.00
46	T	Dibromomethane	50.000	48.105	3.8	95	0.00
47	T	Bromodichloromethane	50.000	48.715	2.6	98	0.00
48	T	Methyl methacrylate	50.000	51.856	-3.7	97	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1039.077	-3.9	99	0.00
50	S	Toluene-d8	50.000	47.728	4.5	94	0.00
51	T	4-Methyl-2-Pentanone	250.000	263.650	-5.5	98	0.00
52	CM	Toluene	50.000	49.377	1.2#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	49.810	0.4	98	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.953	2.1	98	0.00
55	T	1,1,2-Trichloroethane	50.000	48.860	2.3	97	0.00
56	T	Ethyl methacrylate	50.000	52.383	-4.8	98	0.00
57	T	1,3-Dichloropropane	50.000	49.619	0.8	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	255.234	-2.1	90	0.00
59	T	2-Hexanone	250.000	261.717	-4.7	96	0.00
60	T	Dibromochloromethane	50.000	48.997	2.0	96	0.00
61	T	1,2-Dibromoethane	50.000	49.692	0.6	97	0.00
62	S	4-Bromofluorobenzene	50.000	47.544	4.9	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	45.898	8.2	86	0.00
65	PM	Chlorobenzene	50.000	48.547	2.9	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.281	3.4	97	0.00
67	C	Ethyl Benzene	50.000	50.355	-0.7#	99	0.00
68	T	m/p-Xylenes	100.000	100.584	-0.6	99	0.00
69	T	o-Xylene	50.000	50.815	-1.6	100	0.00
70	T	Styrene	50.000	50.903	-1.8	99	0.00
71	P	Bromoform	50.000	49.825	0.3	99	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	49.302	1.4	99	0.00
74	T	N-amyl acetate	50.000	52.247	-4.5	101	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.985	0.0	105	0.00
76	T	1,2,3-Trichloropropane	50.000	48.332	3.3	97	0.00
77	T	Bromobenzene	50.000	48.030	3.9	98	0.00
78	T	n-propylbenzene	50.000	50.062	-0.1	100	0.00
79	T	2-Chlorotoluene	50.000	49.359	1.3	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.127	-0.3	100	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.452	7.1	93	0.00
82	T	4-Chlorotoluene	50.000	49.261	1.5	99	0.00
83	T	tert-Butylbenzene	50.000	50.676	-1.4	101	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.349	-0.7	101	0.00
85	T	sec-Butylbenzene	50.000	50.832	-1.7	102	0.00
86	T	p-Isopropyltoluene	50.000	51.605	-3.2	102	0.00
87	T	1,3-Dichlorobenzene	50.000	48.983	2.0	100	0.00
88	T	1,4-Dichlorobenzene	50.000	48.393	3.2	99	0.00
89	T	n-Butylbenzene	50.000	51.565	-3.1	103	0.00
90	T	Hexachloroethane	50.000	49.436	1.1	102	0.00
91	T	1,2-Dichlorobenzene	50.000	48.252	3.5	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.725	0.5	97	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.859	2.3	98	0.00
94	T	Hexachlorobutadiene	50.000	47.217	5.6	100	0.00
95	T	Naphthalene	50.000	51.062	-2.1	94	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.924	2.2	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023013.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: NOBI03
Lab Code: ACE
SDG No.: Q2639
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/18/2025 21:30
Lab File ID: VY023013.D
Init. Calib. Date(s): 07/18/2025 07/18/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 10:08 12:49
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.425	0.373		-12.23	50
Chloromethane	0.722	0.855	0.1	18.42	50
Vinyl Chloride	0.915	1.043		13.99	50
Bromomethane	0.660	0.825		25	50
Chloroethane	0.611	0.741		21.28	50
Tetrahydrofuran	0.083	0.111		33.74	50
Trichlorofluoromethane	1.062	1.154		8.66	50
1,1,2-Trichlorotrifluoroethane	0.558	0.528		-5.38	50
1,1-Dichloroethene	0.531	0.499		-6.03	50
Acrylonitrile	0.105	0.131		24.76	50
Acetone	0.092	0.096		4.35	50
Carbon Disulfide	1.610	1.537		-4.53	50
Methyl tert-butyl Ether	1.274	1.467		15.15	50
Methylene Chloride	0.871	0.702		-19.4	50
trans-1,2-Dichloroethene	0.591	0.581		-1.69	50
1,1-Dichloroethane	1.079	1.114	0.1	3.24	50
2-Butanone	0.132	0.164		24.24	50
Carbon Tetrachloride	0.543	0.506		-6.81	50
2,2-Dichloropropane	0.945	0.836		-11.53	50
cis-1,2-Dichloroethene	0.682	0.694		1.76	50
Chloroform	1.088	1.144		5.15	50
1,1,1-Trichloroethane	0.987	0.972		-1.52	50
1,1-Dichloropropene	0.500	0.481		-3.8	50
Benzene	1.504	1.533		1.93	50
1,2-Dichloroethane	0.374	0.421		12.57	50
Trichloroethene	0.386	0.373		-3.37	50
1,2-Dichloropropane	0.351	0.362		3.13	50
Dibromomethane	0.182	0.202		10.99	50
Bromodichloromethane	0.502	0.528		5.18	50
4-Methyl-2-Pentanone	0.187	0.249		33.15	50
Toluene	0.935	0.953		1.92	50
t-1,3-Dichloropropene	0.431	0.465		7.89	50
cis-1,3-Dichloropropene	0.519	0.536		3.28	50
1,1,2-Trichloroethane	0.239	0.272		13.81	50
1,3-Dichloropropane	0.412	0.471		14.32	50
2-Hexanone	0.123	0.163		32.52	50
Dibromochloromethane	0.312	0.352		12.82	50
1,2-Dibromoethane	0.217	0.253		16.59	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023013.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: NOBI03
Lab Code: ACE
SDG No.: Q2639
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/18/2025 21:30
Lab File ID: VY023013.D
Init. Calib. Date(s): 07/18/2025 07/18/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 10:08 12:49
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Tetrachloroethene	0.511	0.488		-4.5	50
Chlorobenzene	1.180	1.137	0.3	-3.64	50
1,1,1,2-Tetrachloroethane	0.402	0.396		-1.49	50
Ethyl Benzene	2.091	2.011		-3.83	50
m/p-Xylenes	0.802	0.770		-3.99	50
o-Xylene	0.744	0.725		-2.55	50
Styrene	1.219	1.247		2.3	50
Bromoform	0.204	0.223	0.1	9.31	50
Isopropylbenzene	4.239	3.692		-12.9	50
1,1,2,2-Tetrachloroethane	0.613	0.642	0.3	4.73	50
1,2,3-Trichloropropane	0.623	0.602		-3.37	50
Bromobenzene	0.919	0.852		-7.29	50
n-propylbenzene	5.048	4.398		-12.88	50
2-Chlorotoluene	2.839	2.531		-10.85	50
1,3,5-Trimethylbenzene	3.343	2.992		-10.5	50
4-Chlorotoluene	2.864	2.624		-8.38	50
tert-Butylbenzene	3.020	2.640		-12.58	50
1,2,4-Trimethylbenzene	3.291	3.002		-8.78	50
sec-Butylbenzene	4.526	3.873		-14.43	50
p-Isopropyltoluene	3.676	3.177		-13.57	50
1,3-Dichlorobenzene	1.855	1.691		-8.84	50
1,4-Dichlorobenzene	1.795	1.636		-8.86	50
n-Butylbenzene	3.392	2.844		-16.16	50
1,2-Dichlorobenzene	1.565	1.494		-4.54	50
1,2-Dibromo-3-Chloropropane	0.091	0.107		17.58	50
1,2,4-Trichlorobenzene	0.825	0.762		-7.64	50
Hexachlorobutadiene	0.520	0.384		-26.15	50
1,2,3-Trichlorobenzene	0.681	0.669		-1.76	50
1,2-Dichloroethane-d4	0.506	0.604		19.37	50
Dibromofluoromethane	0.317	0.334		5.36	50
Toluene-d8	1.258	1.289		2.46	50
4-Bromofluorobenzene	0.396	0.418		5.56	50
trans-1,4-Dichloro-2-butene	0.209	0.209		0	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VY023013.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	377955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	625472	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	554651	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	276744	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	228310	59.671	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.340%			
35) Dibromofluoromethane	7.634	113	208746	52.613	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.220%			
50) Toluene-d8	10.109	98	806530	51.260	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.520%			
62) 4-Bromofluorobenzene	12.402	95	261655	52.830	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	140807	43.876	ug/l	99
3) Chloromethane	2.068	50	323218	59.231	ug/l	98
4) Vinyl Chloride	2.202	62	394077	57.002	ug/l	98
5) Bromomethane	2.592	94	311918	62.514	ug/l	99
6) Chloroethane	2.733	64	280147	60.674	ug/l	98
7) Trichlorofluoromethane	3.050	101	436004	54.329	ug/l	100
8) Diethyl Ether	3.458	74	111442	53.057	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.812	101	199499	47.321	ug/l	99
10) Methyl Iodide	4.001	142	217070	49.563	ug/l	100
11) Tert butyl alcohol	4.879	59	71247	307.901	ug/l	98
12) 1,1-Dichloroethene	3.787	96	188473	46.929	ug/l	93
13) Acrolein	3.659	56	16998	156.327	ug/l	99
14) Allyl chloride	4.385	41	306078	50.025	ug/l	98
15) Acrylonitrile	5.061	53	248330	312.136	ug/l	100
16) Acetone	3.879	43	181109	261.129	ug/l	97
17) Carbon Disulfide	4.104	76	580997	47.733	ug/l	100
18) Methyl Acetate	4.385	43	172195	73.334	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	554451	57.557	ug/l	100
20) Methylene Chloride	4.616	84	265399	55.283	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	219497	49.098	ug/l	100
22) Diisopropyl ether	6.019	45	718593	55.360	ug/l	99
23) Vinyl Acetate	5.964	43	1900129	290.523	ug/l	99
24) 1,1-Dichloroethane	5.915	63	421017	51.640	ug/l	99
25) 2-Butanone	6.896	43	308999	310.560	ug/l	99
26) 2,2-Dichloropropane	6.884	77	315802	44.197	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	262480	50.944	ug/l	98
28) Bromochloromethane	7.244	49	178147	56.337	ug/l	96
29) Tetrahydrofuran	7.262	42	209494	332.560	ug/l	99
30) Chloroform	7.421	83	432510	52.587	ug/l	98
31) Cyclohexane	7.701	56	354155	46.489	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	367493	49.245	ug/l	98
36) 1,1-Dichloropropene	7.835	75	301074	48.175	ug/l	100
37) Ethyl Acetate	6.988	43	138056	59.479	ug/l	100
38) Carbon Tetrachloride	7.817	117	316660	46.638	ug/l	97
39) Methylcyclohexane	9.109	83	374781	46.332	ug/l	99
40) Benzene	8.079	78	958949	50.962	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	79155	62.602	ug/l		95
42) 1,2-Dichloroethane	8.158	62	263065	56.192	ug/l		99
43) Isopropyl Acetate	8.195	43	288120	62.492	ug/l	#	86
44) Trichloroethene	8.866	130	233155	48.241	ug/l		98
45) 1,2-Dichloropropane	9.140	63	226109	51.456	ug/l		97
46) Dibromomethane	9.231	93	126540	55.711	ug/l		99
47) Bromodichloromethane	9.427	83	330126	52.581	ug/l		100
48) Methyl methacrylate	9.219	41	137956	61.977	ug/l		98
49) 1,4-Dioxane	9.238	88	31191	1302.771	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	778848	332.819	ug/l		99
52) Toluene	10.170	92	596148	50.957	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	290824	53.962	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	335517	51.650	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	170233	57.023	ug/l		97
56) Ethyl methacrylate	10.439	69	229815	61.668	ug/l		99
57) 1,3-Dichloropropane	10.719	76	294658	57.137	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	578833	317.300	ug/l		99
59) 2-Hexanone	10.762	43	511100	332.267	ug/l		100
60) Dibromochloromethane	10.914	129	219889	56.249	ug/l		100
61) 1,2-Dibromoethane	11.012	107	158224	58.364	ug/l		98
64) Tetrachloroethene	10.646	164	270447	47.704	ug/l		97
65) Chlorobenzene	11.438	112	630749	48.192	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	219714	49.218	ug/l		99
67) Ethyl Benzene	11.518	91	1115671	48.092	ug/l		99
68) m/p-Xylenes	11.627	106	853956	95.970	ug/l		100
69) o-Xylene	11.957	106	402086	48.691	ug/l		99
70) Styrene	11.969	104	691812	51.144	ug/l		99
71) Bromoform	12.133	173	123544	54.515	ug/l	#	99
73) Isopropylbenzene	12.255	105	1021842	43.551	ug/l		100
74) N-amyl acetate	12.066	43	246379	55.697	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	177627	52.314	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	166699m	48.340	ug/l		
77) Bromobenzene	12.530	156	235710	46.319	ug/l		98
78) n-propylbenzene	12.597	91	1217148	43.562	ug/l		100
79) 2-Chlorotoluene	12.676	91	700498	44.577	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	828035	44.746	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	57844	49.960	ug/l		99
82) 4-Chlorotoluene	12.773	91	726082	45.812	ug/l		99
83) tert-Butylbenzene	12.999	119	730508	43.702	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	830661	45.601	ug/l		99
85) sec-Butylbenzene	13.176	105	1071926	42.792	ug/l		100
86) p-Isopropyltoluene	13.292	119	879278	43.220	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	467908	45.562	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	452749	45.571	ug/l		100
89) n-Butylbenzene	13.615	91	787148	41.930	ug/l		99
90) Hexachloroethane	13.877	117	181698	43.138	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	413591	47.745	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	29548	58.609	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	210940	46.196	ug/l		99
94) Hexachlorobutadiene	15.023	225	106361	36.947	ug/l		99
95) Naphthalene	15.145	128	411528	56.191	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	185268	49.139	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

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

Sample Results: **VY023013.D**

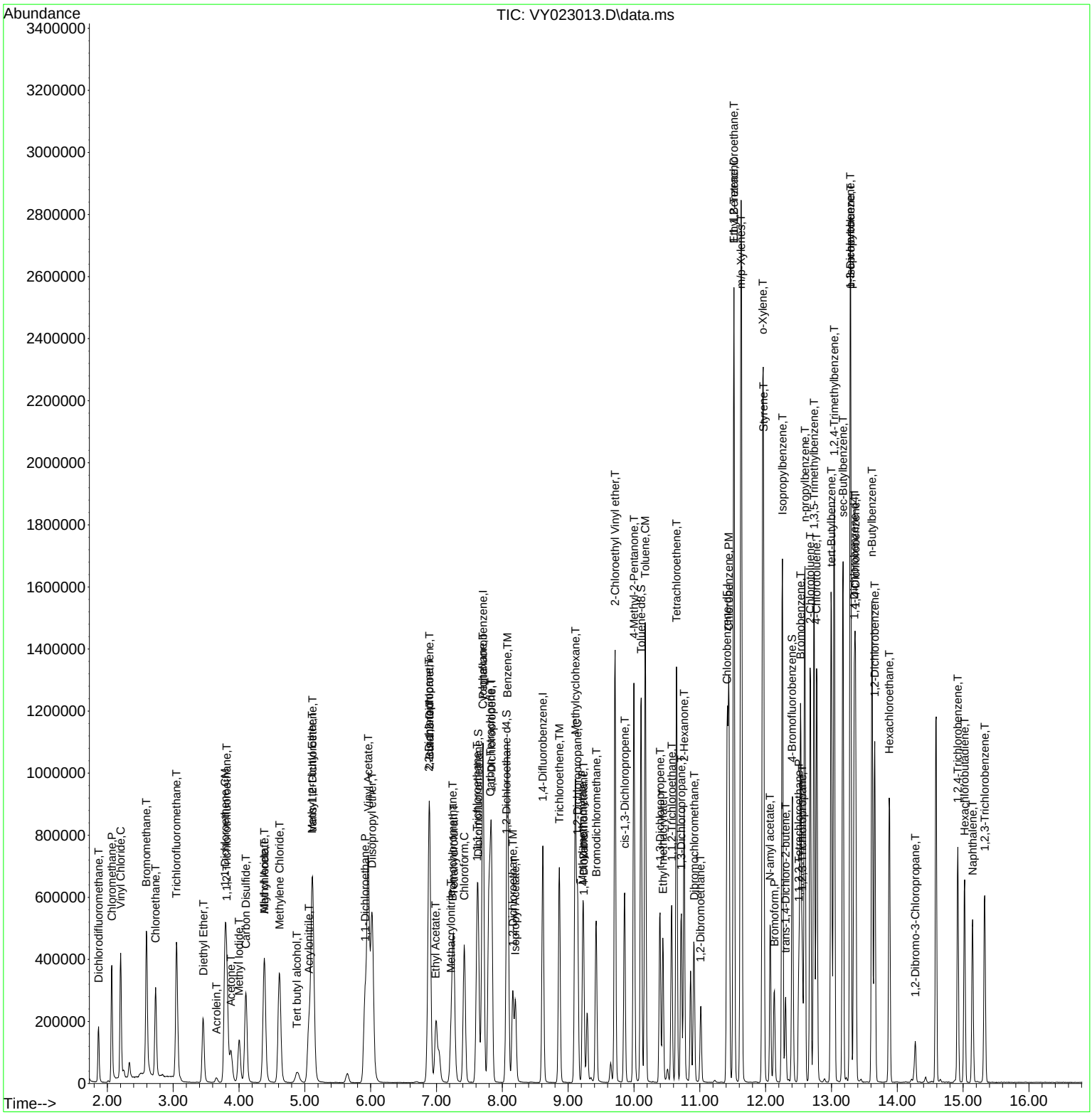
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

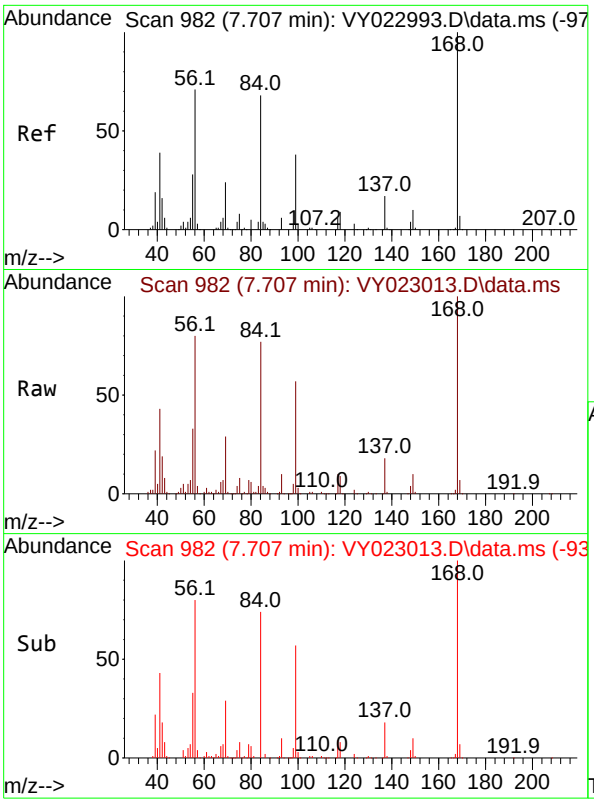
Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

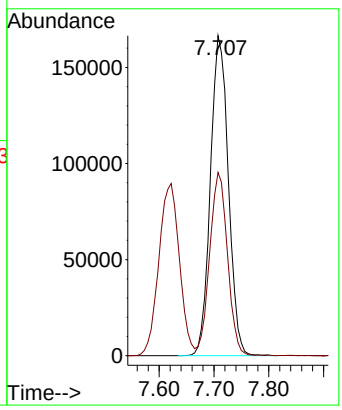




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:168 Resp: 37795

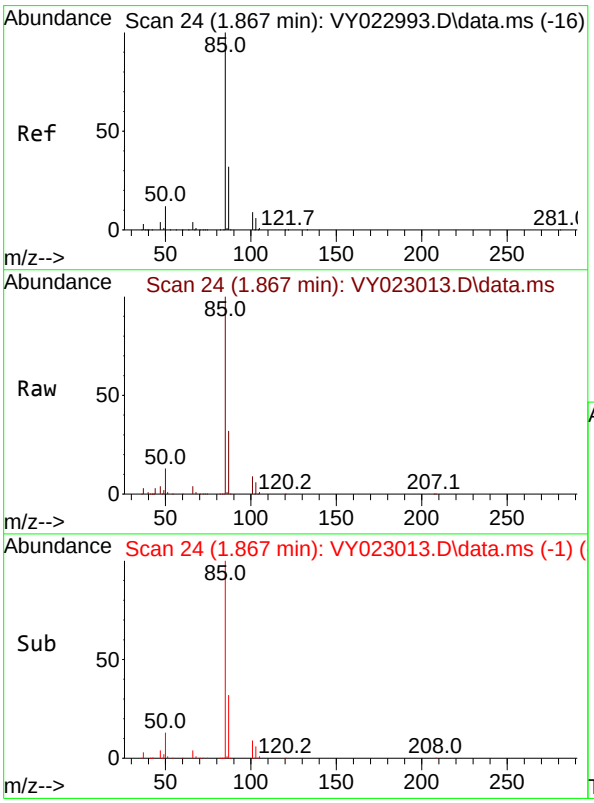
Ion	Ratio	Lower	Upper
168	100		
99	57.2	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

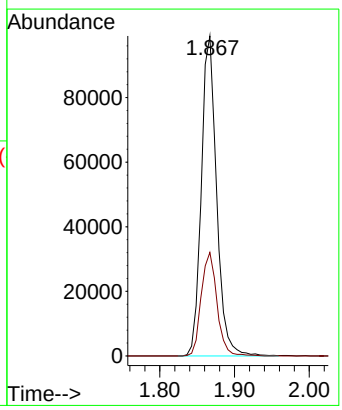
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

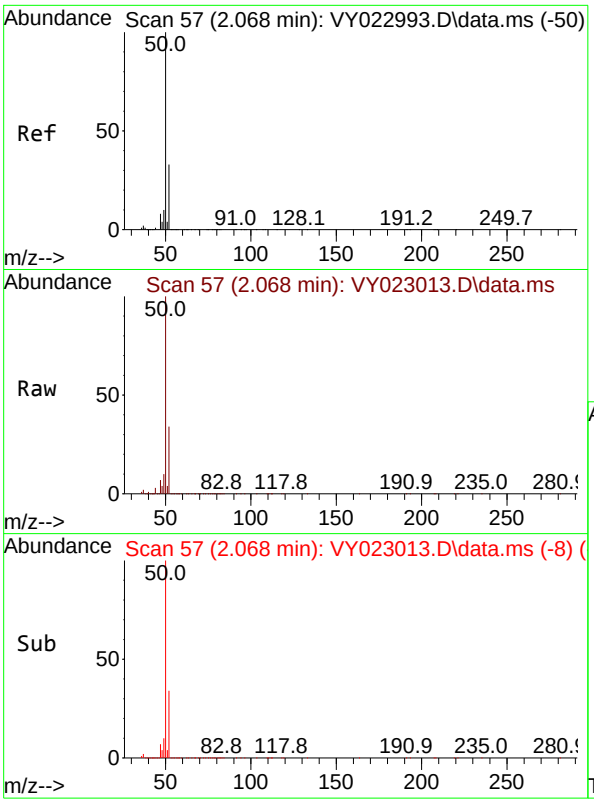


#2
Dichlorodifluoromethane
Concen: 43.876 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 85 Resp: 140807

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.0	47.9

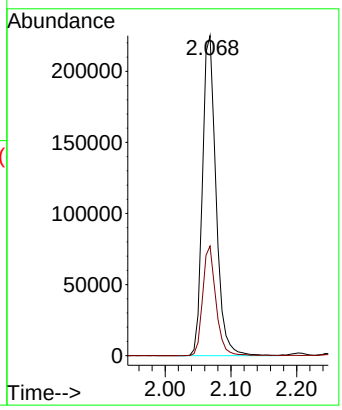




#3
Chloromethane
Concen: 59.231 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 50 Resp: 32321

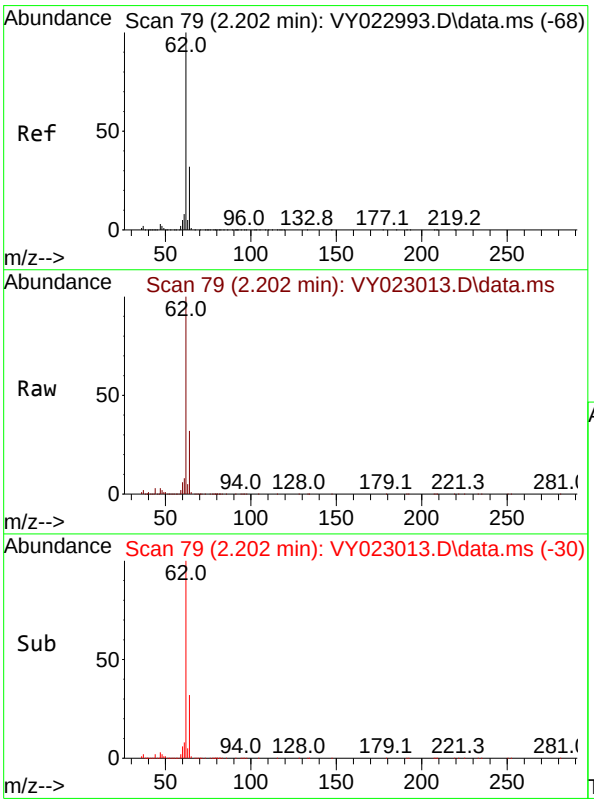
Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

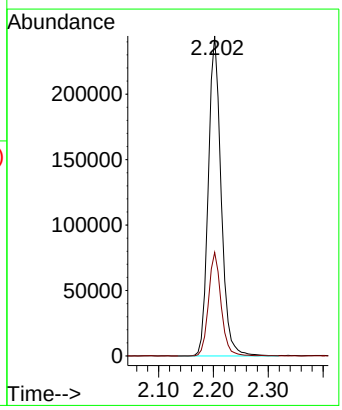
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

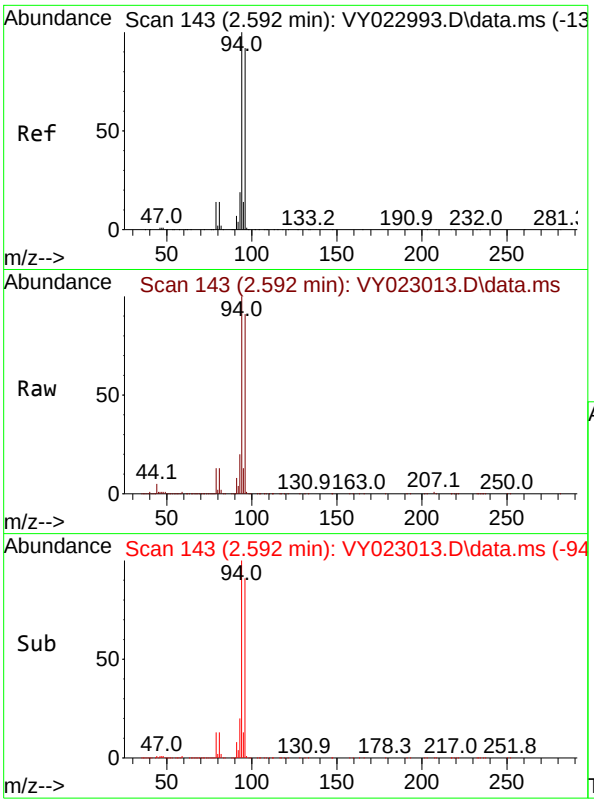


#4
Vinyl Chloride
Concen: 57.002 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 62 Resp: 394077

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8





#5
Bromomethane
Concen: 62.514 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

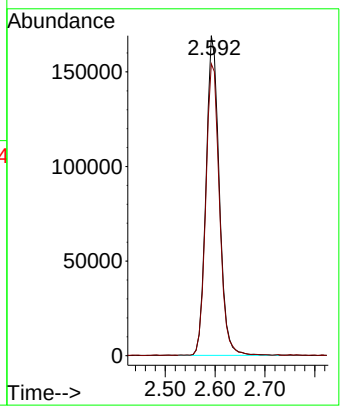
Tgt Ion: 94 Resp: 31191

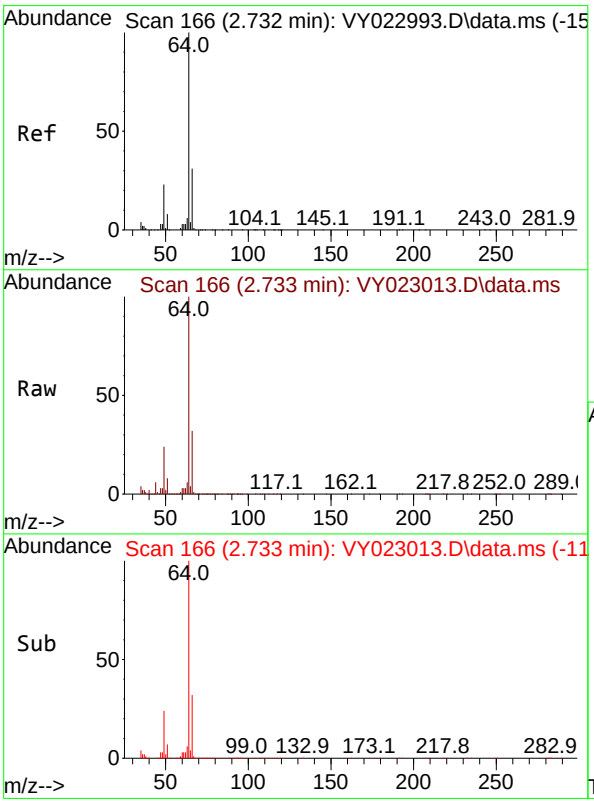
Ion	Ratio	Lower	Upper
94	100		
96	91.1	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

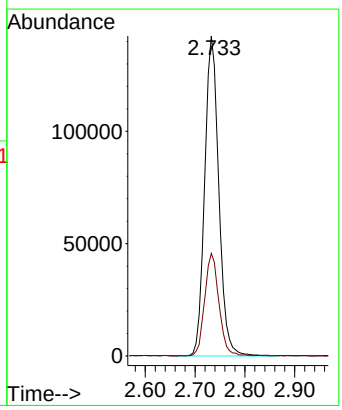


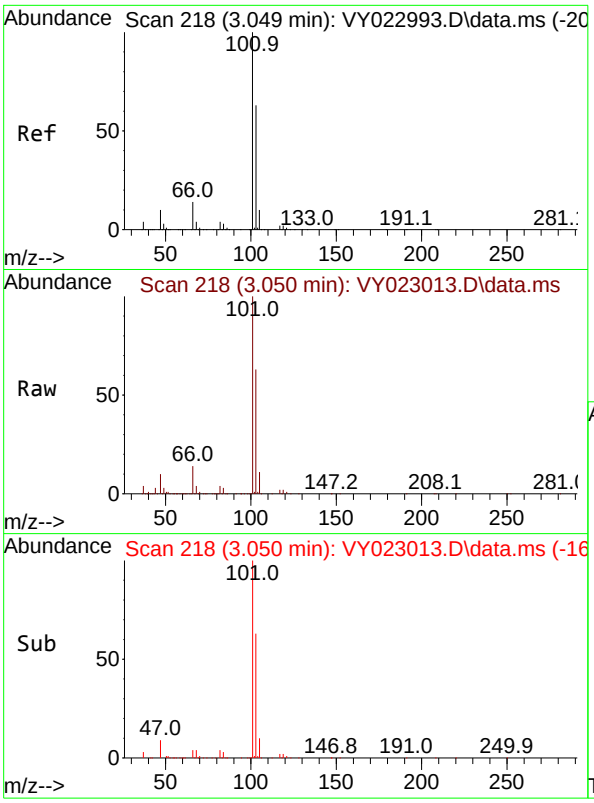


#6
Chloroethane
Concen: 60.674 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 64 Resp: 280147

Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.9	37.3

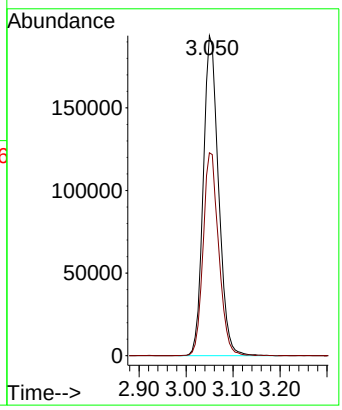




#7
Trichlorofluoromethane
Concen: 54.329 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:101 Resp: 43600

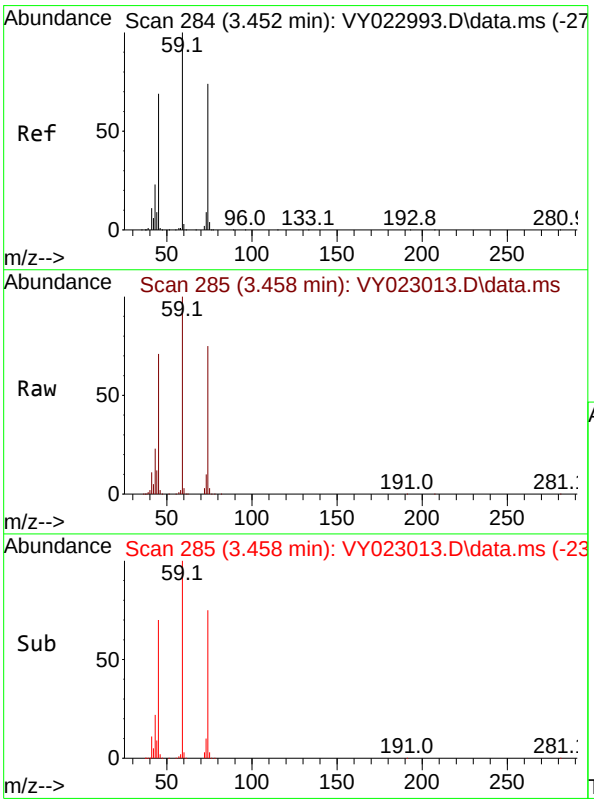
Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

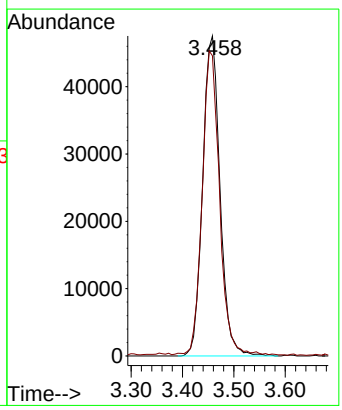
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

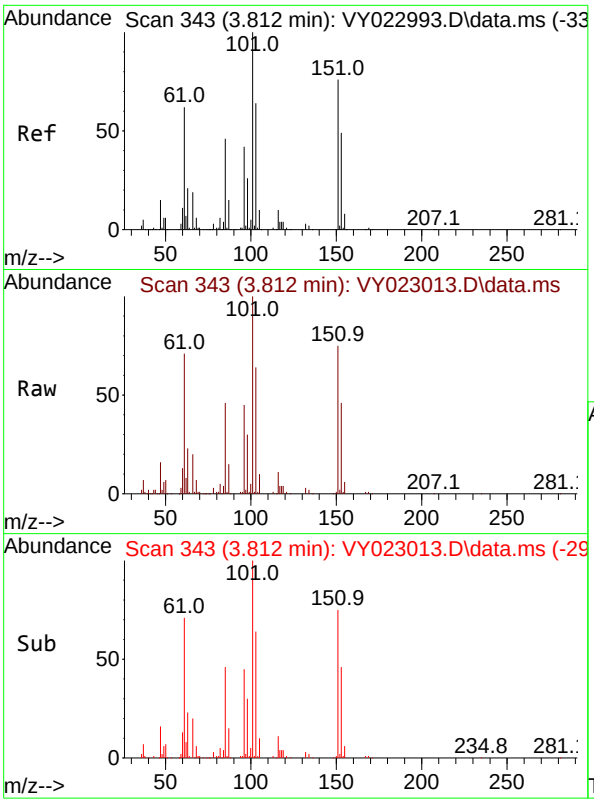


#8
Diethyl Ether
Concen: 53.057 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 74 Resp: 111442

Ion	Ratio	Lower	Upper
74	100		
45	95.3	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.321 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

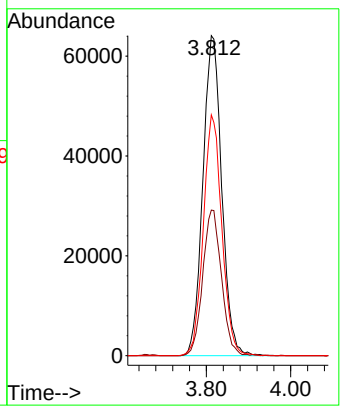
Tgt Ion:101 Resp: 199499

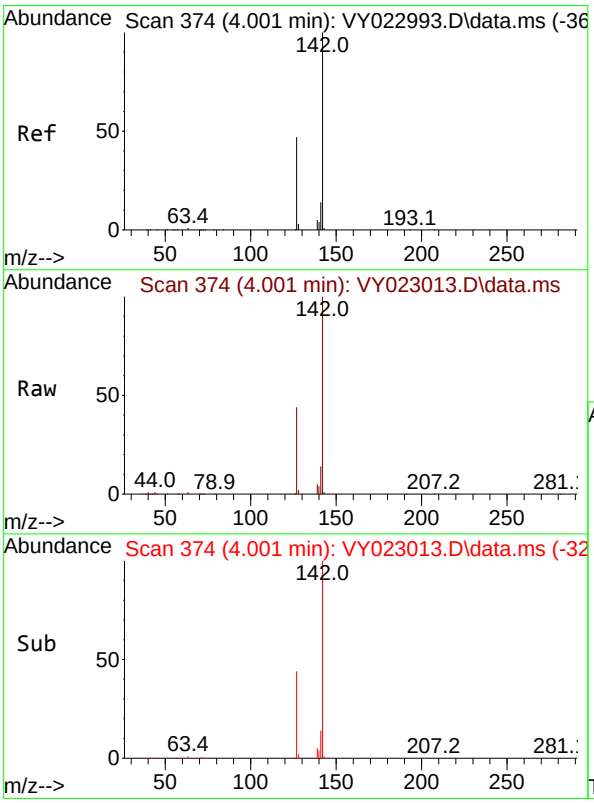
Ion	Ratio	Lower	Upper
101	100		
85	45.3	37.2	55.8
151	73.9	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

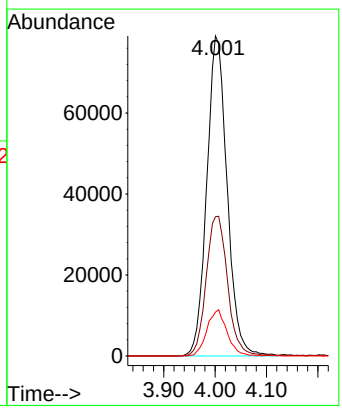


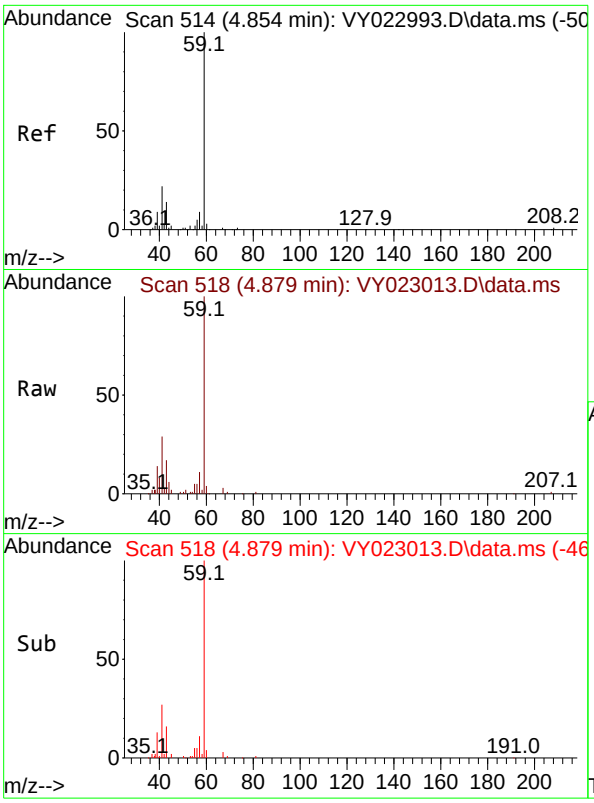


#10
Methyl Iodide
Concen: 49.563 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:142 Resp: 217070

Ion	Ratio	Lower	Upper
142	100		
127	46.0	37.0	55.6
141	14.3	11.4	17.2

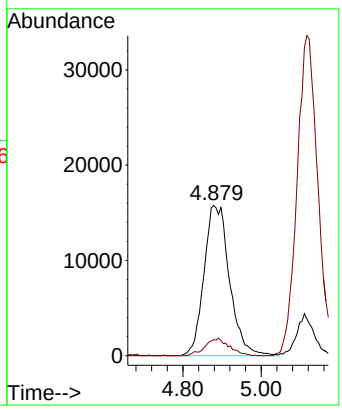




#11
Tert butyl alcohol
Concen: 307.901 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.025 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 59 Resp: 7124

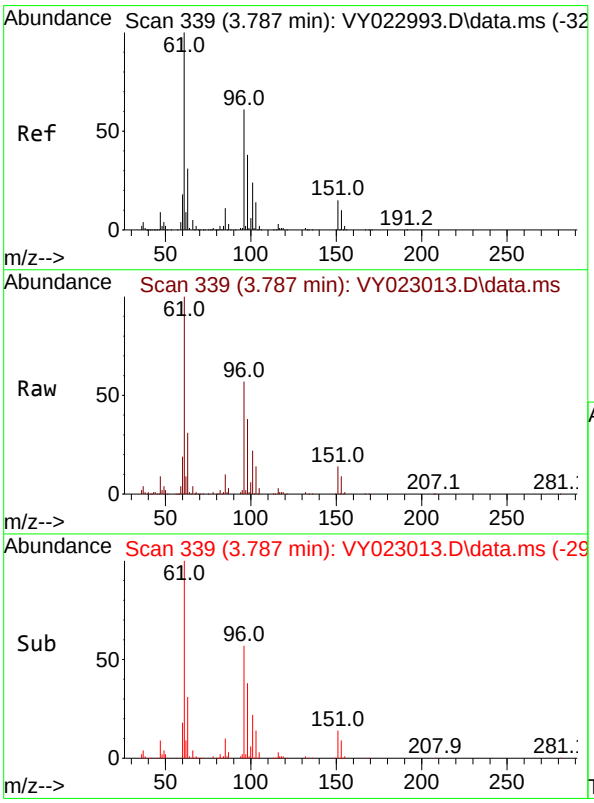
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

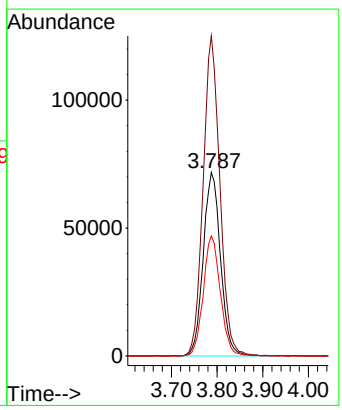
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

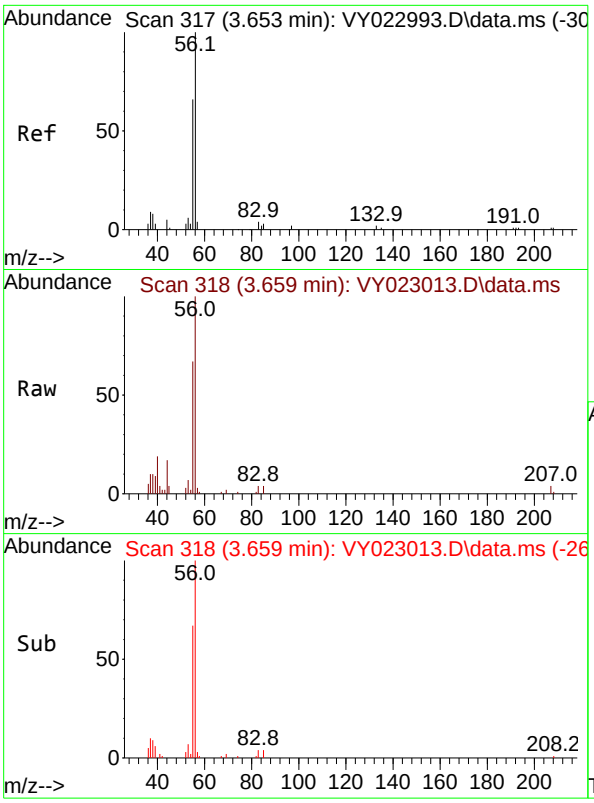


#12
1,1-Dichloroethene
Concen: 46.929 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 96 Resp: 188473

Ion	Ratio	Lower	Upper
96	100		
61	174.4	130.4	195.6
98	65.4	49.6	74.4

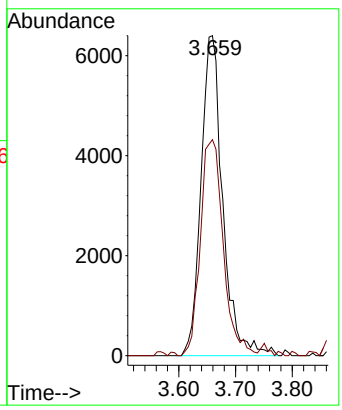




#13
Acrolein
Concen: 156.327 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 56 Resp: 1699

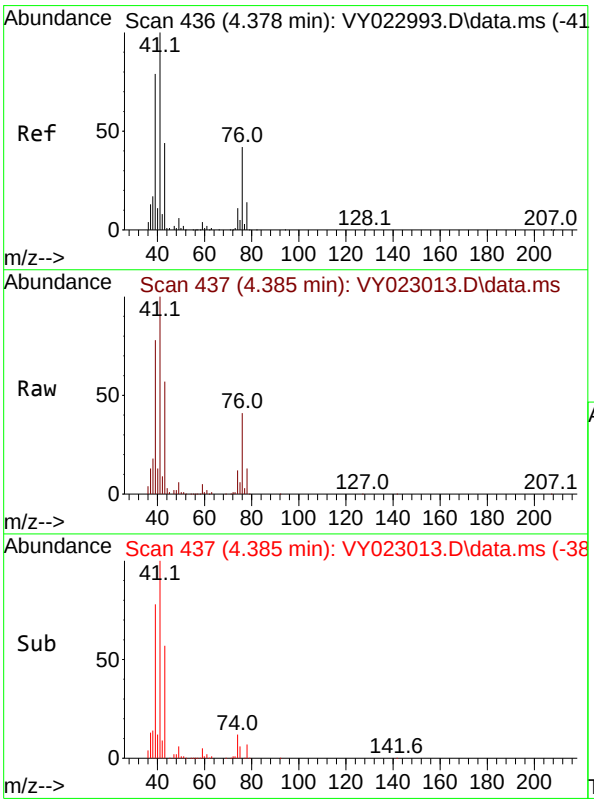
Ion	Ratio	Lower	Upper
56	100		
55	71.1	57.8	86.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

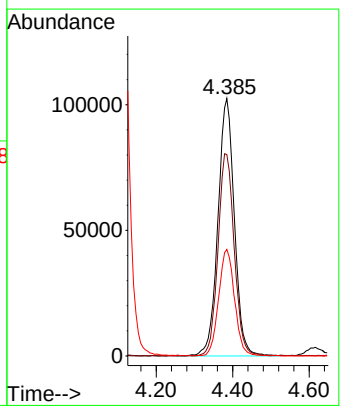
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

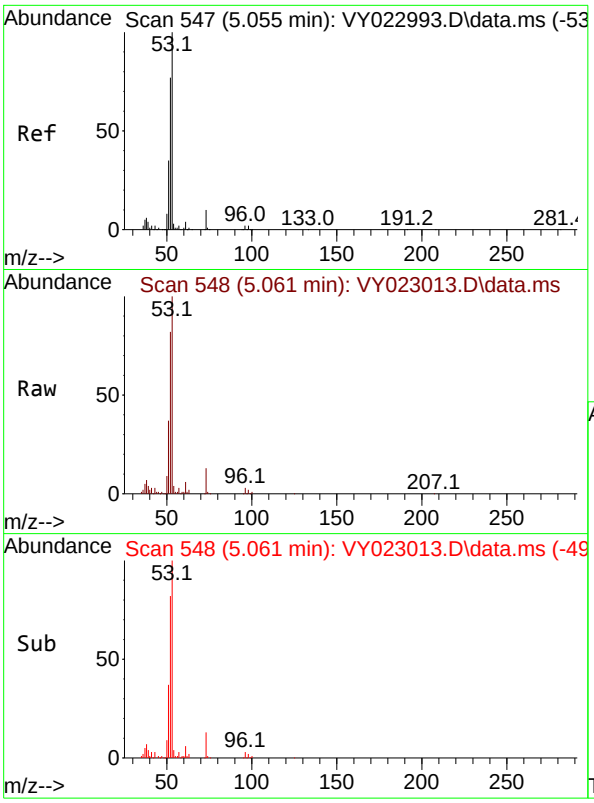


#14
Allyl chloride
Concen: 50.025 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 41 Resp: 306078

Ion	Ratio	Lower	Upper
41	100		
39	77.7	60.1	90.1
76	40.1	32.2	48.4





#15
Acrylonitrile
Concen: 312.136 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

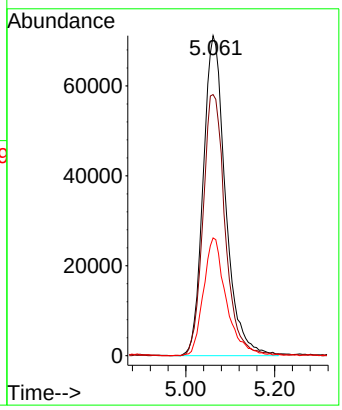
Tgt Ion: 53 Resp: 24833

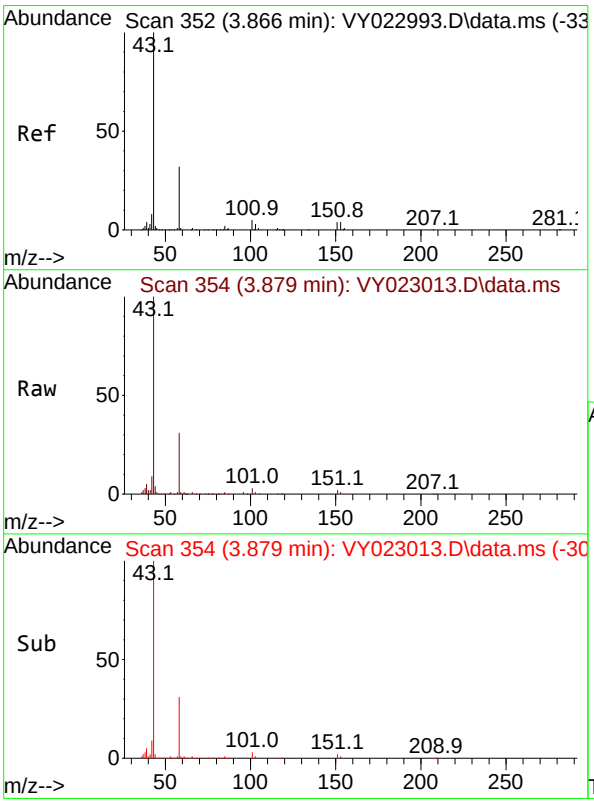
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.2	97.8
51	37.8	30.3	45.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

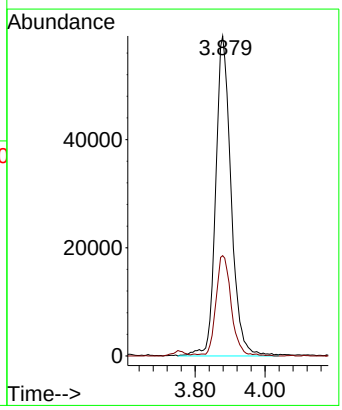


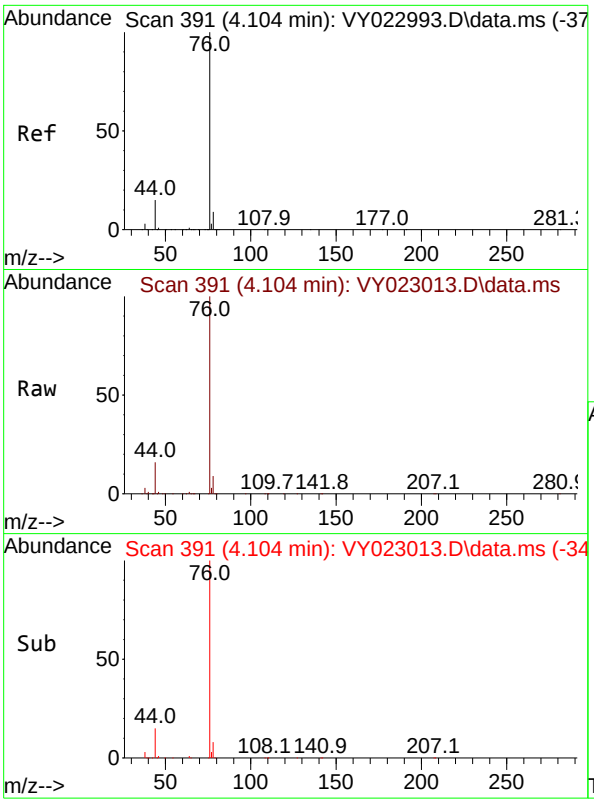


#16
Acetone
Concen: 261.129 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 181109

Ion	Ratio	Lower	Upper
43	100		
58	31.4	26.2	39.4





#17
Carbon Disulfide
Concen: 47.733 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

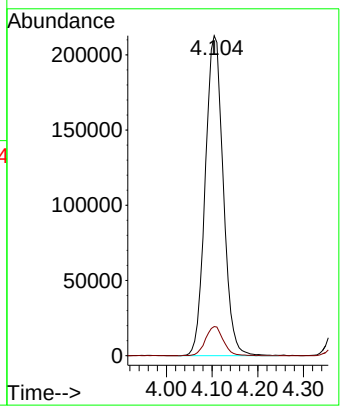
Tgt Ion: 76 Resp: 58099

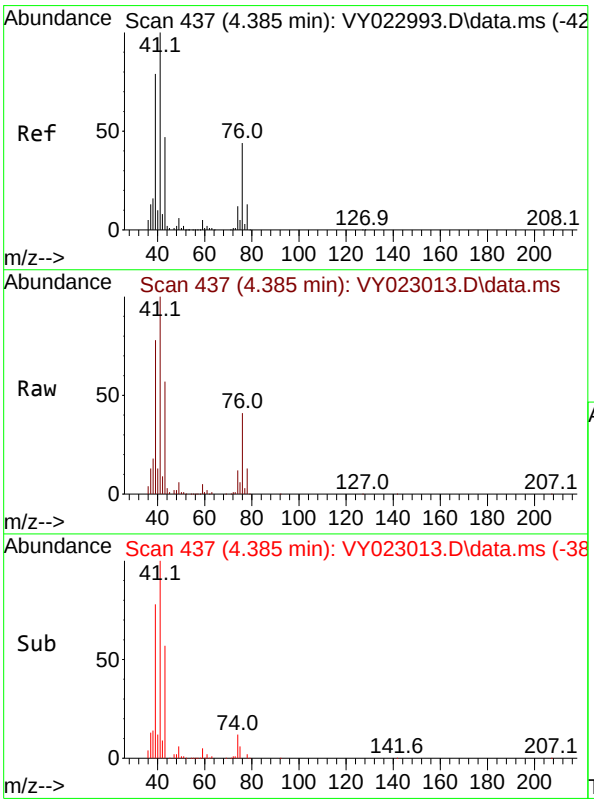
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

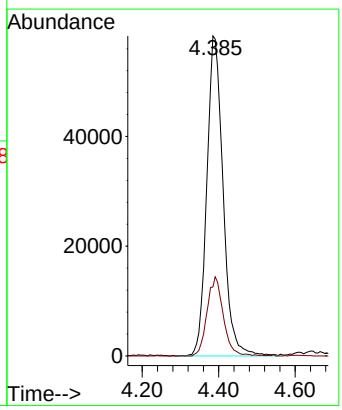


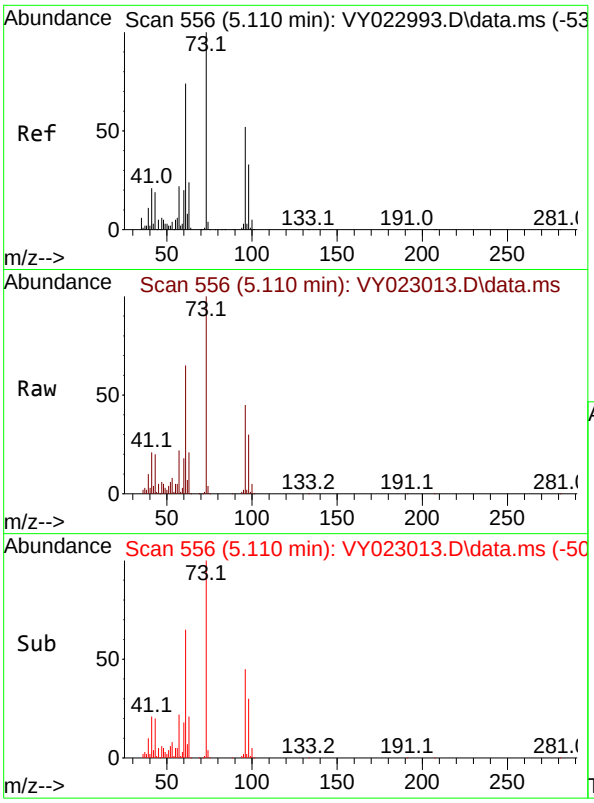


#18
Methyl Acetate
Concen: 73.334 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 172195

Ion	Ratio	Lower	Upper
43	100		
74	24.7	20.1	30.1





#19
Methyl tert-butyl Ether
Concen: 57.557 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

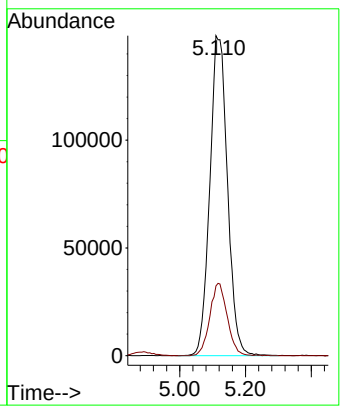
Tgt Ion: 73 Resp: 55445

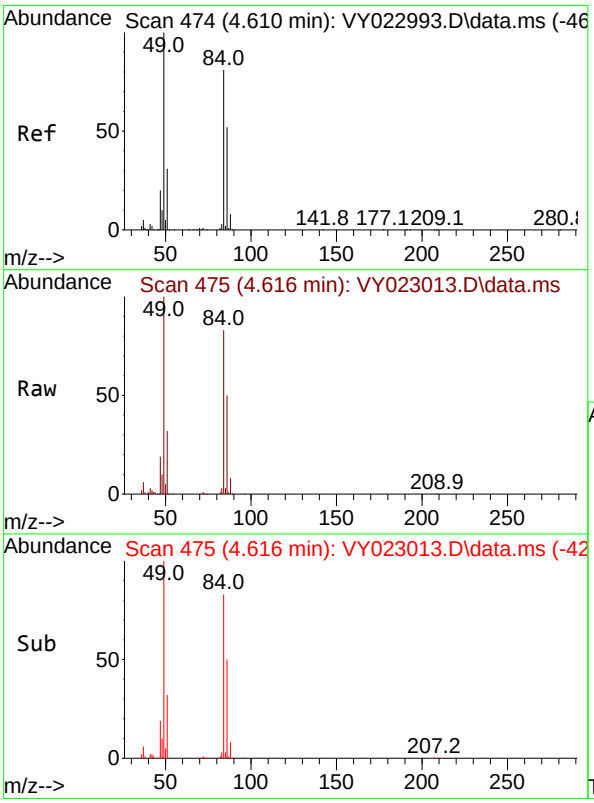
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

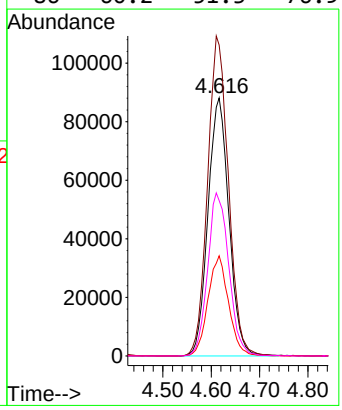


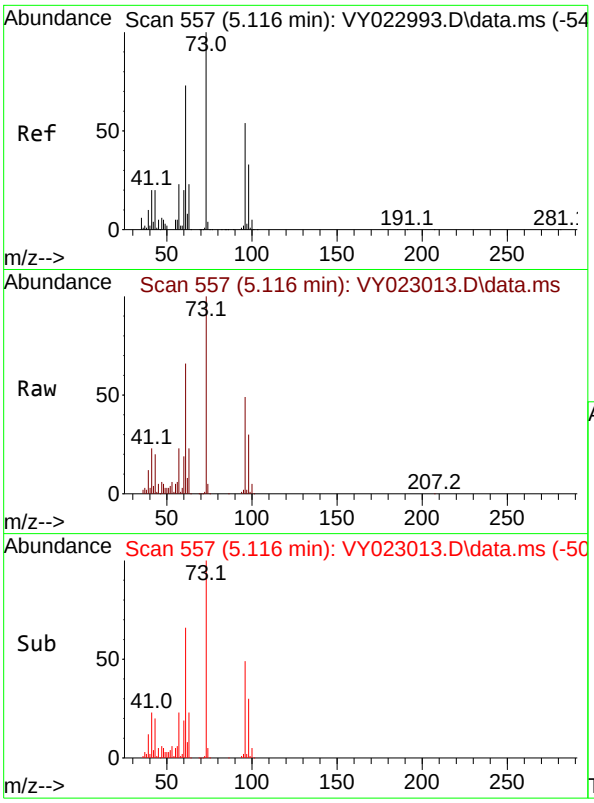


#20
Methylene Chloride
Concen: 55.283 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 84 Resp: 265399

Ion	Ratio	Lower	Upper
84	100		
49	120.4	98.2	147.4
51	38.8	30.5	45.7
86	60.2	51.3	76.9

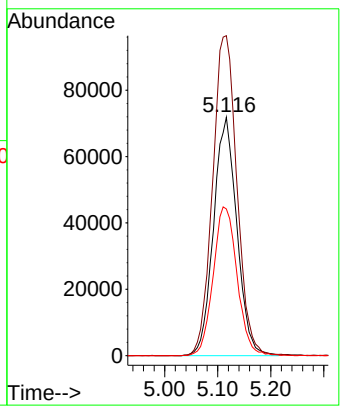




#21
trans-1,2-Dichloroethene
Concen: 49.098 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 96 Resp: 21949

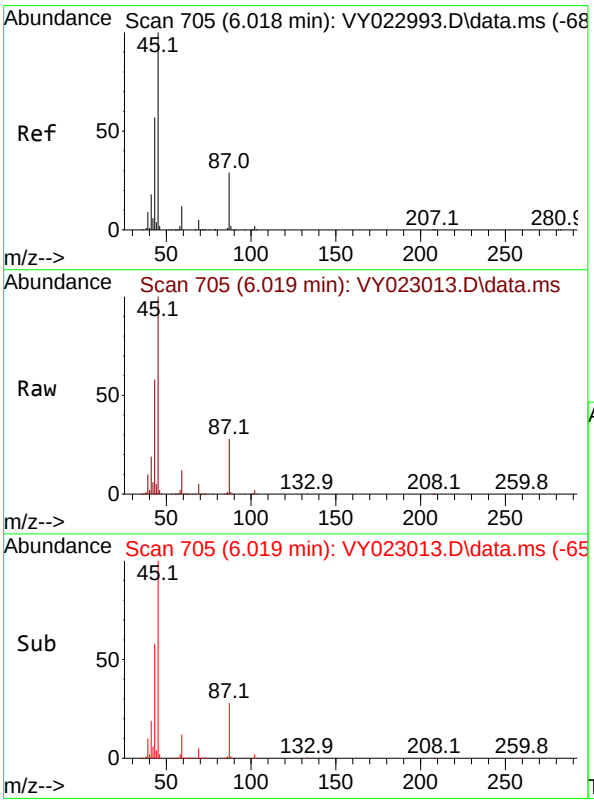
Ion	Ratio	Lower	Upper
96	100		
61	134.2	107.4	161.2
98	61.5	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

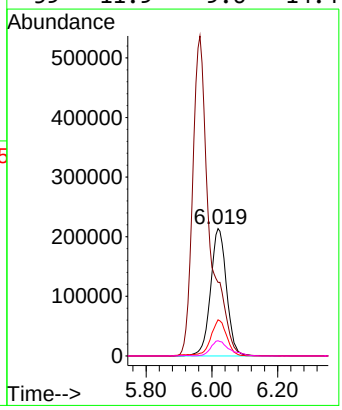
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

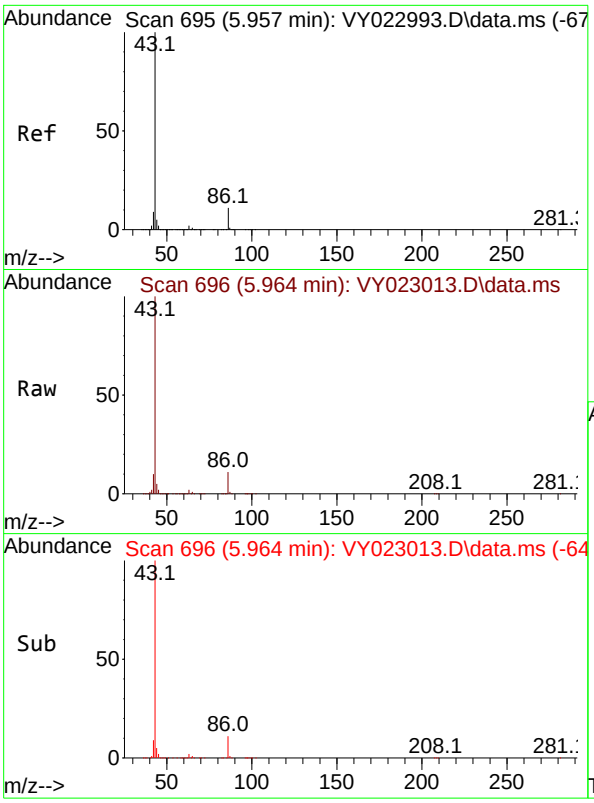


#22
Diisopropyl ether
Concen: 55.360 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 45 Resp: 718593

Ion	Ratio	Lower	Upper
45	100		
43	57.6	45.3	67.9
87	28.4	23.3	34.9
59	11.9	9.6	14.4





#23
Vinyl Acetate
Concen: 290.523 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

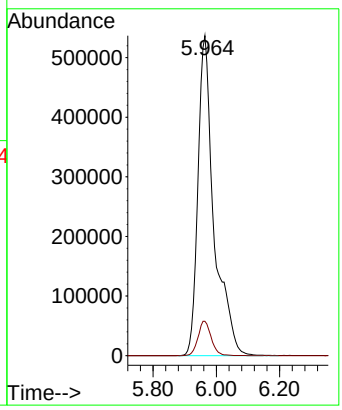
Tgt Ion: 43 Resp: 190012

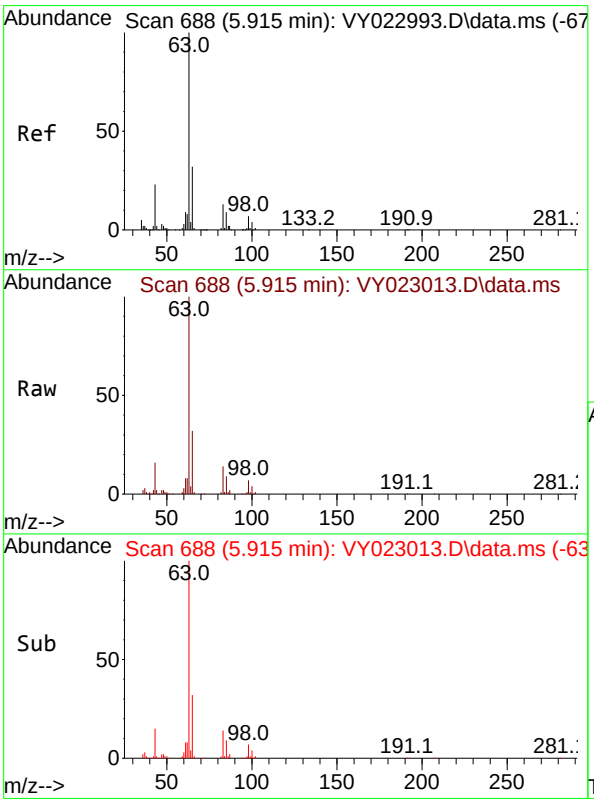
Ion	Ratio	Lower	Upper
43	100		
86	10.8	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

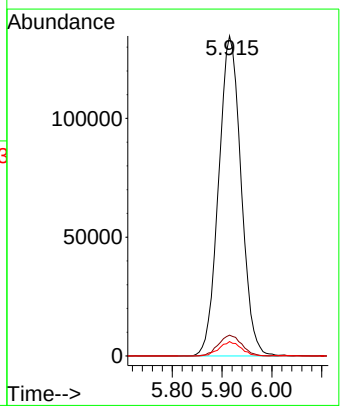


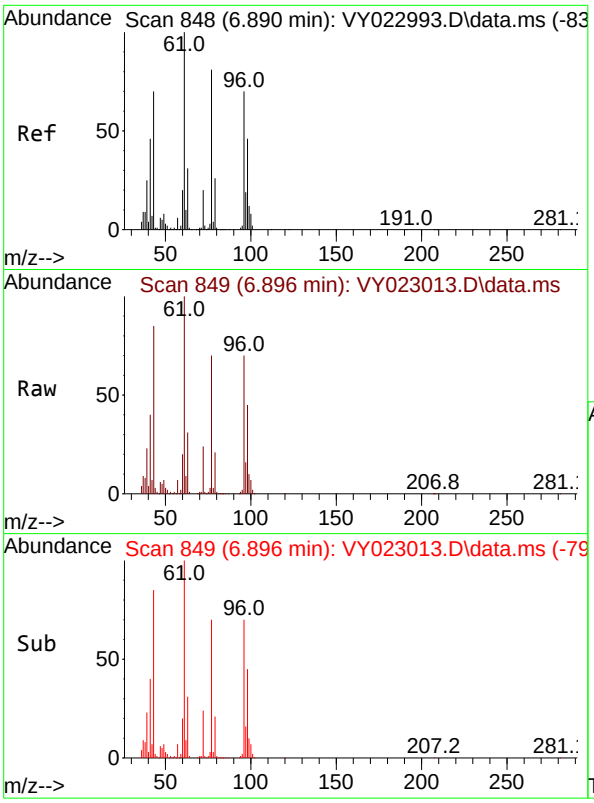


#24
1,1-Dichloroethane
Concen: 51.640 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 63 Resp: 421017

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.5
100	4.5	2.1	6.2





#25
2-Butanone
Concen: 310.560 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

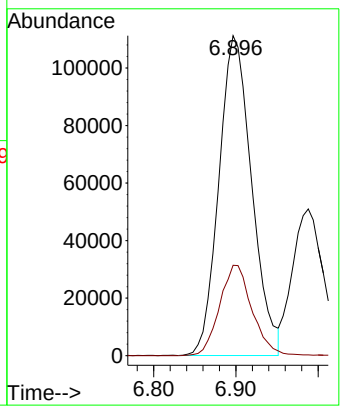
Tgt Ion: 43 Resp: 30899

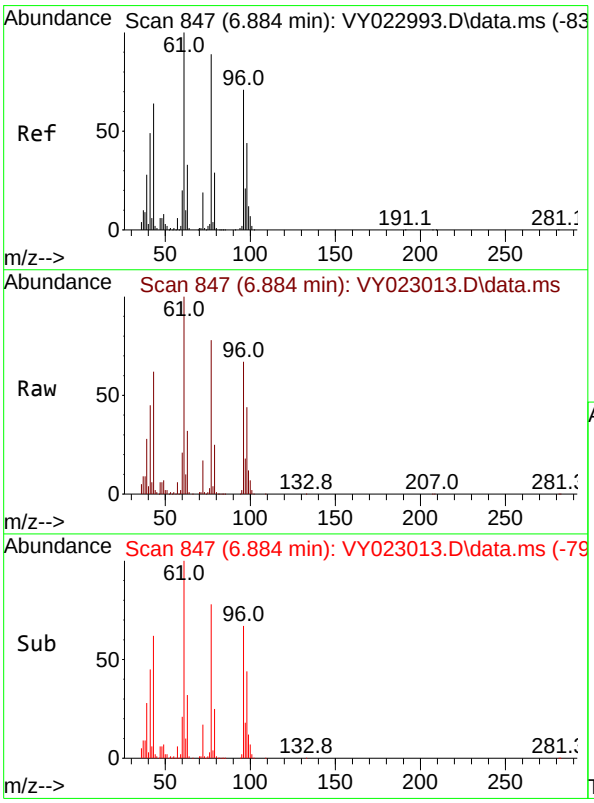
Ion	Ratio	Lower	Upper
43	100		
72	28.3	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

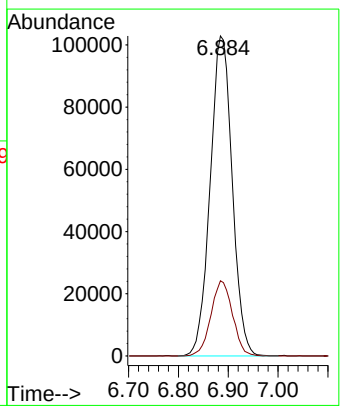


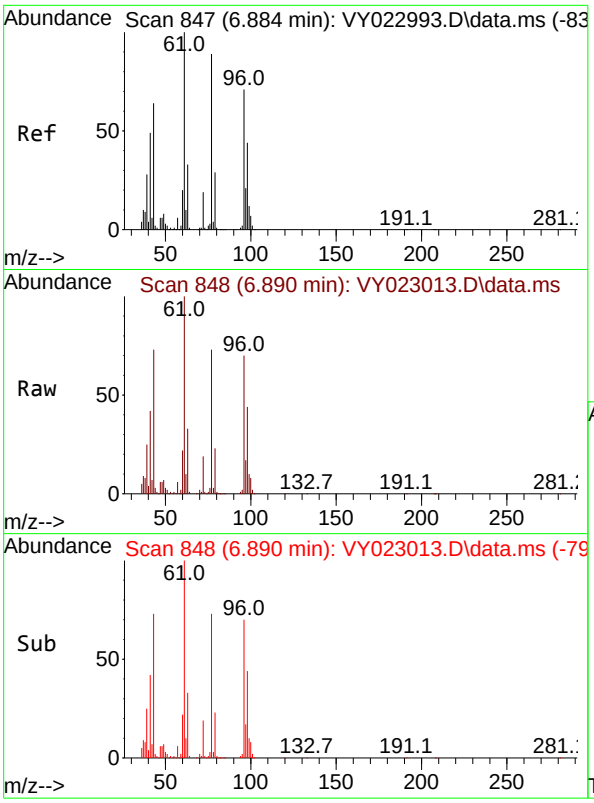


#26
2,2-Dichloropropane
Concen: 44.197 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 77 Resp: 315802

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 50.944 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

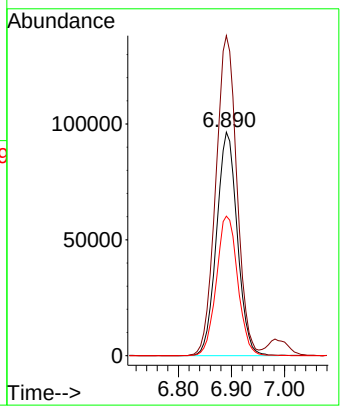
Tgt Ion: 96 Resp: 26248

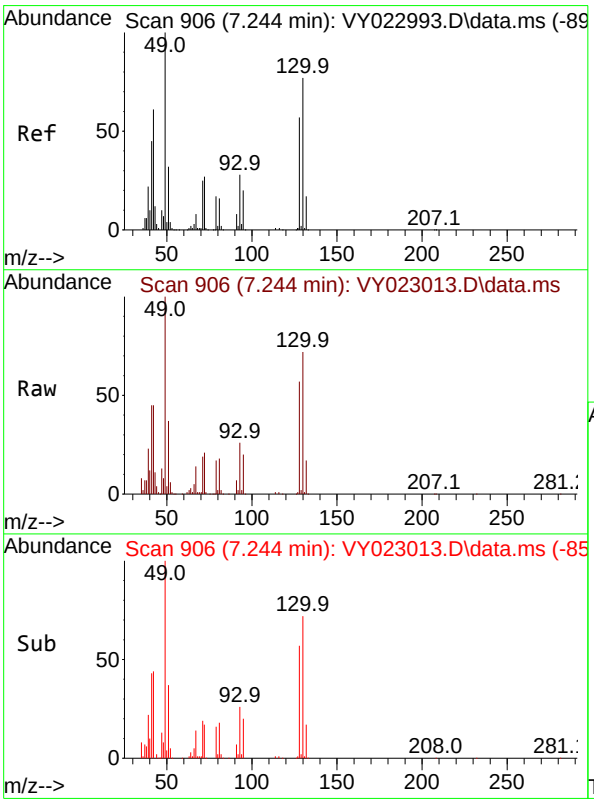
Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	286.2
98	64.4	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

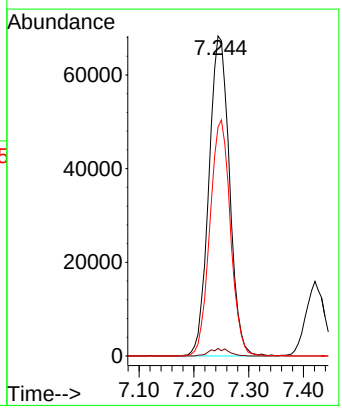


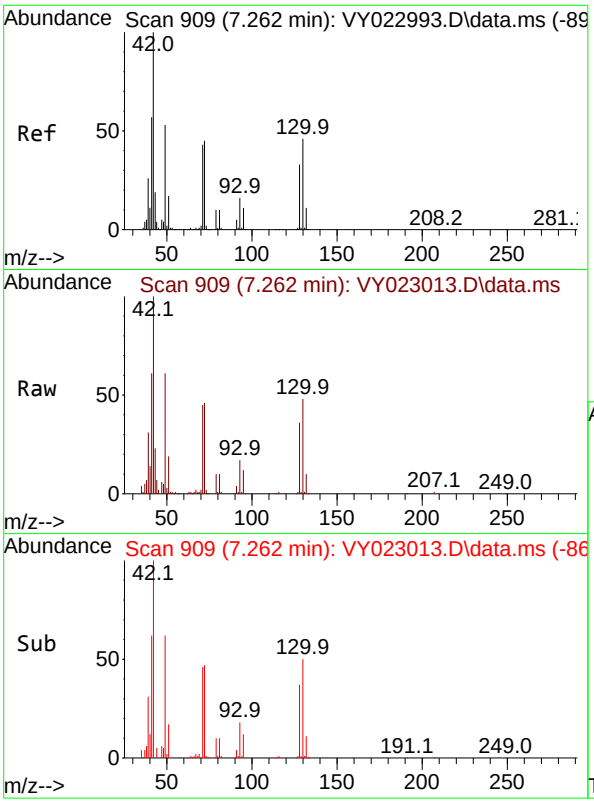


#28
Bromochloromethane
Concen: 56.337 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 49 Resp: 178147

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	73.4	61.8	92.8





#29
Tetrahydrofuran
Concen: 332.560 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

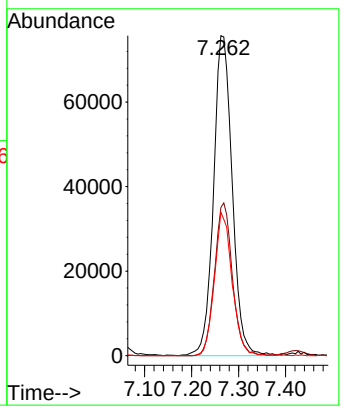
Tgt Ion: 42 Resp: 20949

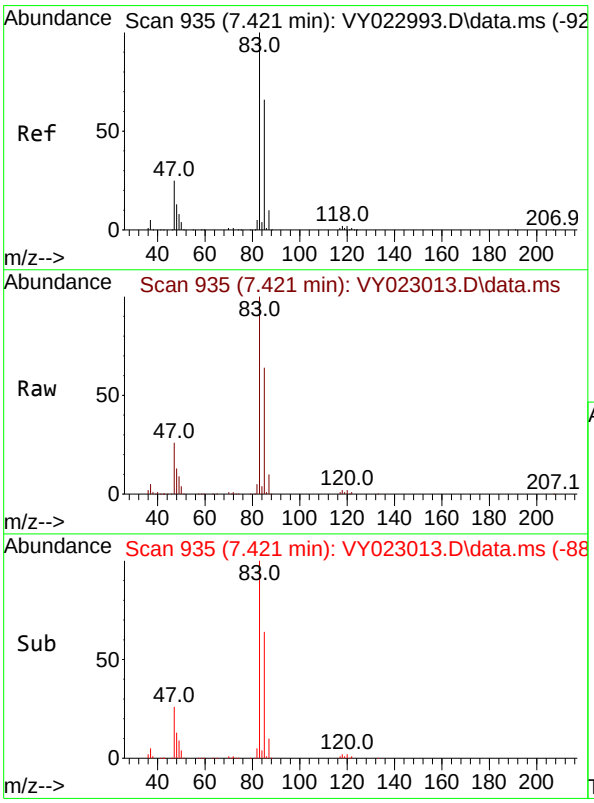
Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.5	56.3
71	42.4	34.2	51.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

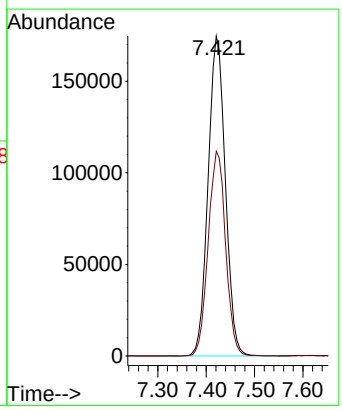


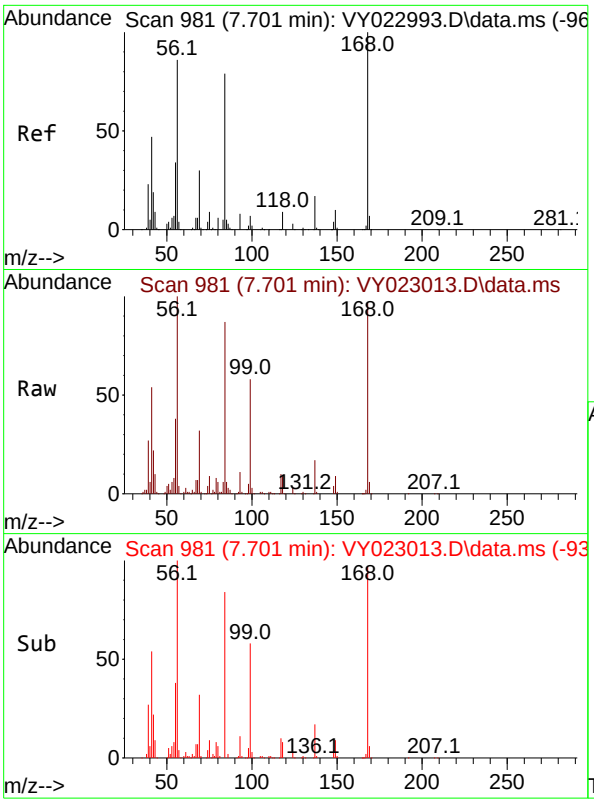


#30
Chloroform
Concen: 52.587 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 83 Resp: 432510

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	78.8

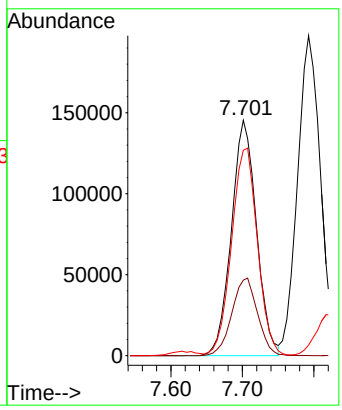




#31
Cyclohexane
Concen: 46.489 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 56 Resp: 35415

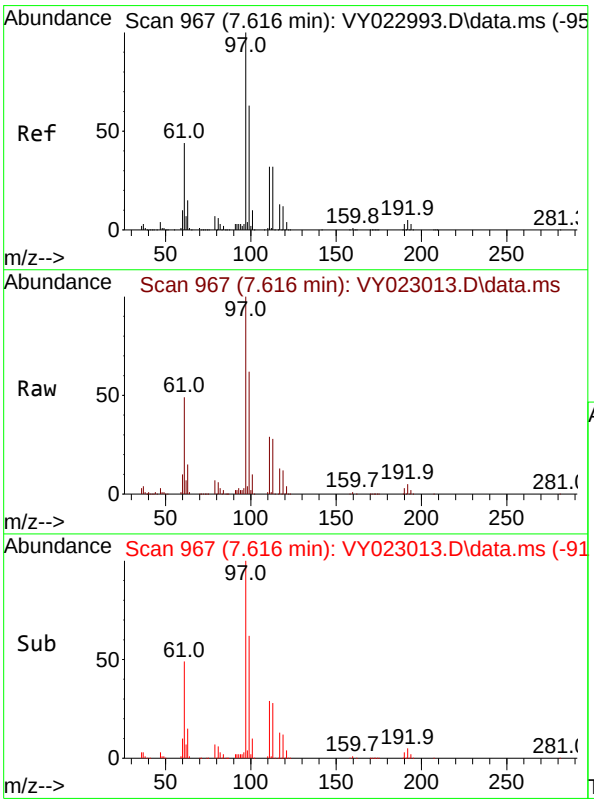
Ion	Ratio	Lower	Upper
56	100		
69	32.1	28.1	42.1
84	85.6	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

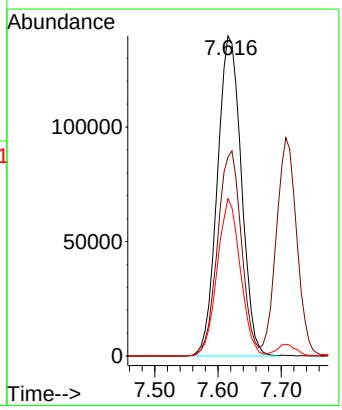
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

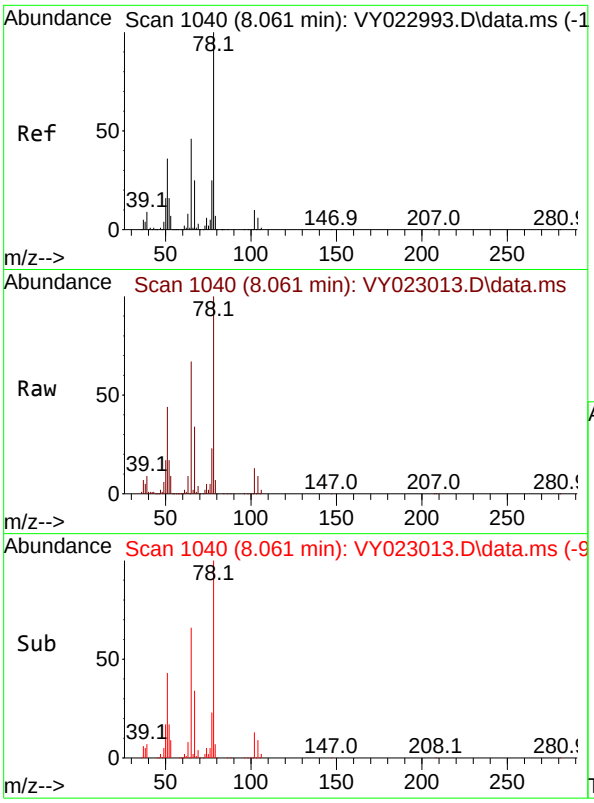


#32
1,1,1-Trichloroethane
Concen: 49.245 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 97 Resp: 367493

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	47.6	36.1	54.1





#33
1,2-Dichloroethane-d4
Concen: 59.671 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

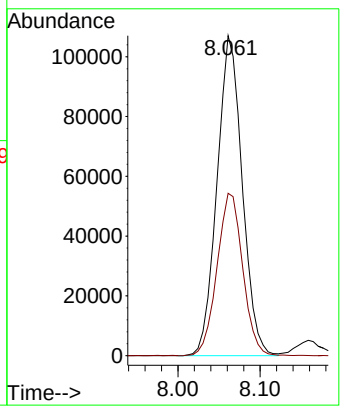
Tgt Ion: 65 Resp: 22831

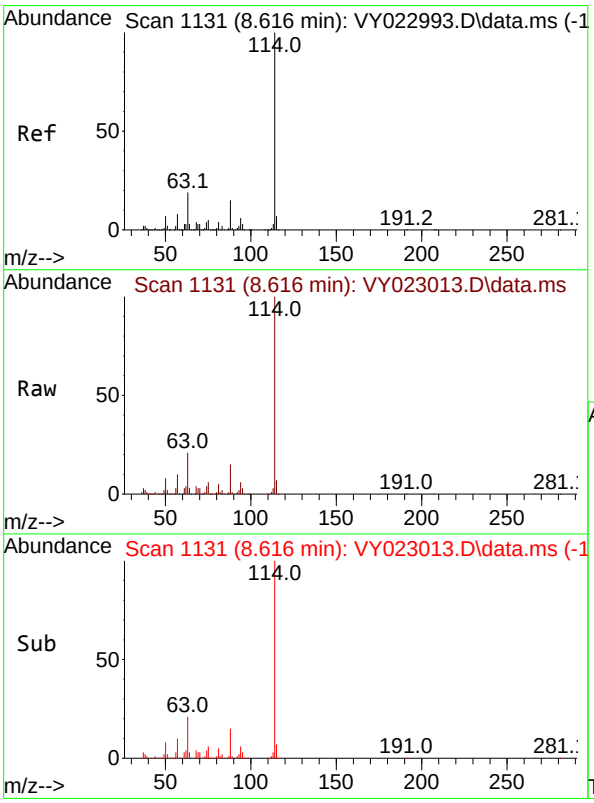
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	107.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

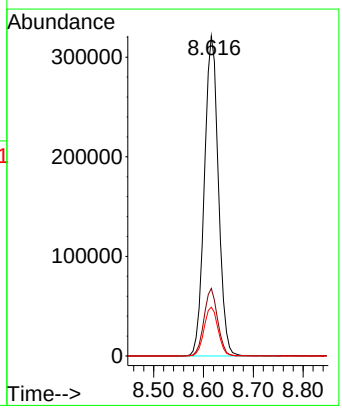


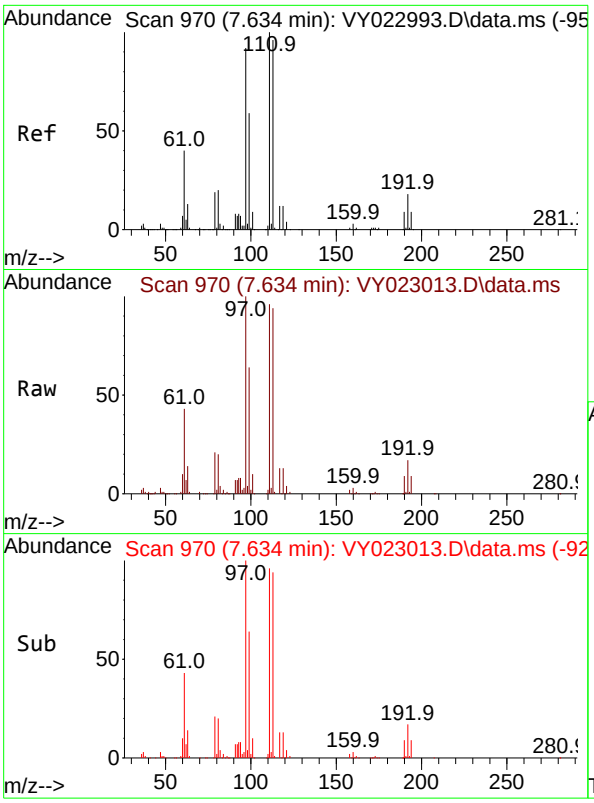


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:114 Resp: 625472

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	38.8
88	15.3	0.0	30.2

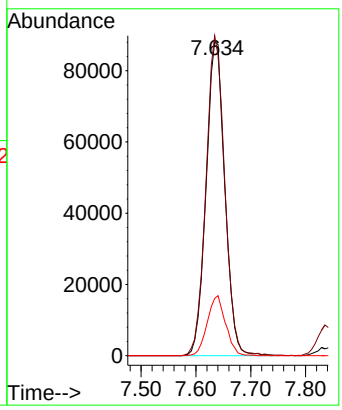




#35
Dibromofluoromethane
Concen: 52.613 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:113 Resp: 20874

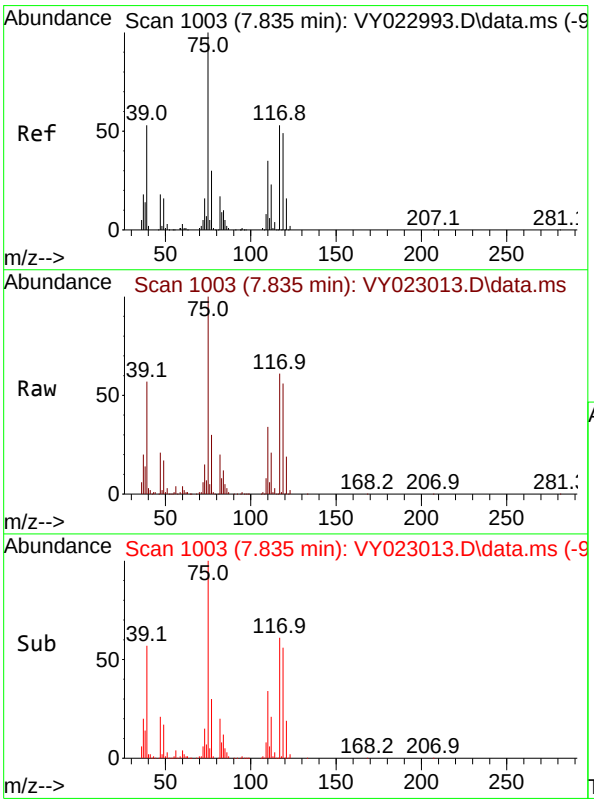
Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.2	124.8
192	18.7	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

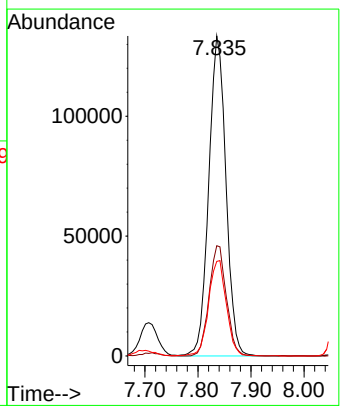
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

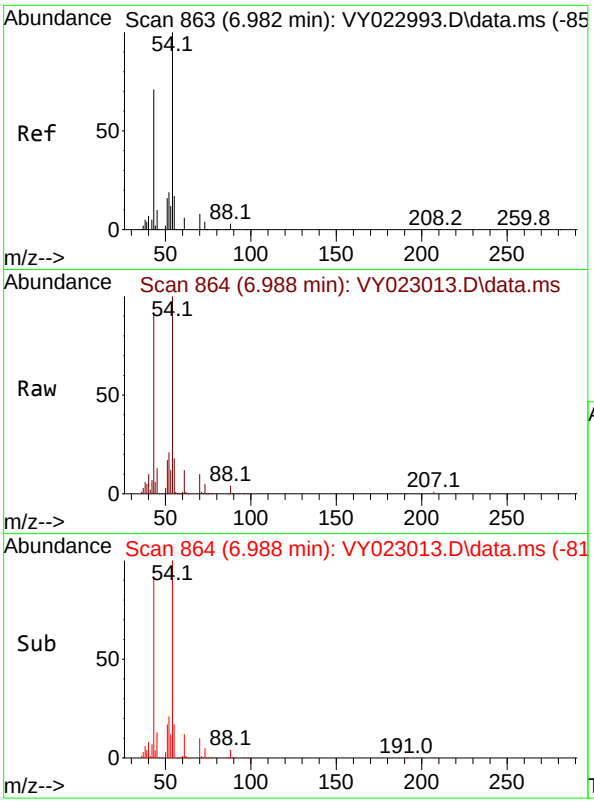


#36
1,1-Dichloropropene
Concen: 48.175 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 301074

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	30.8	24.6	37.0





#37
Ethyl Acetate
Concen: 59.479 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

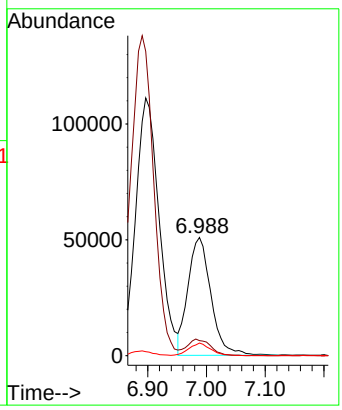
Tgt Ion: 43 Resp: 13805

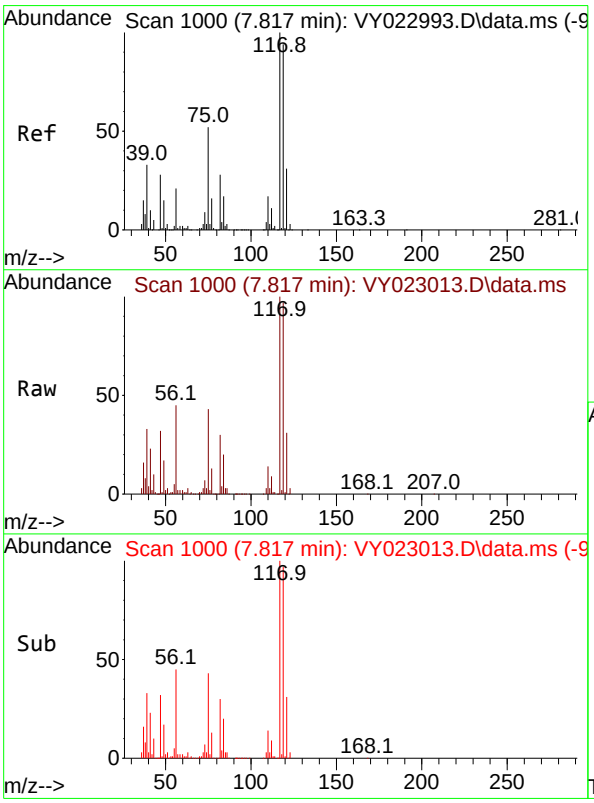
Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	10.2	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

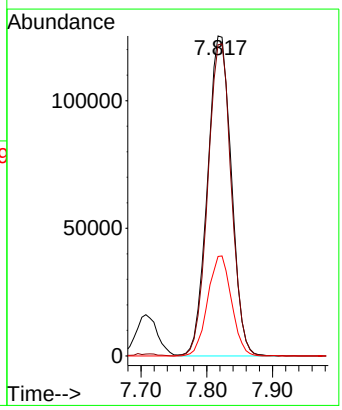


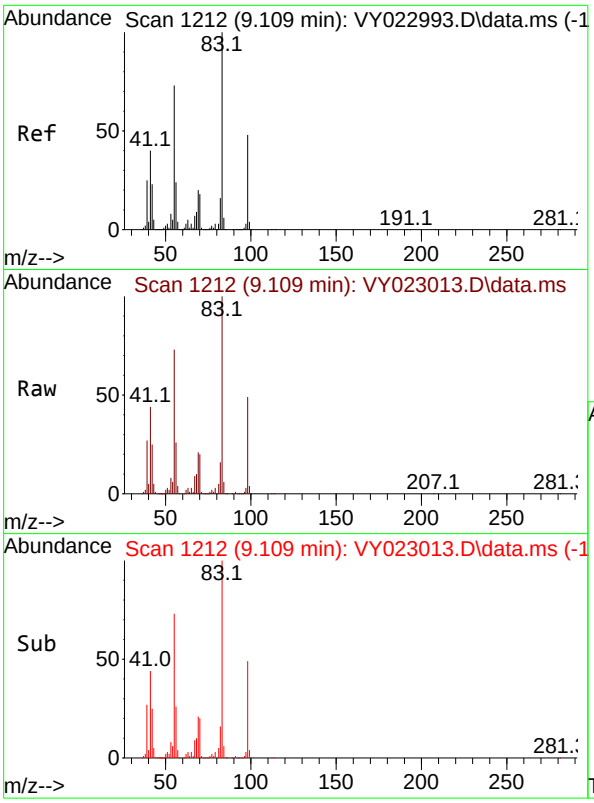


#38
Carbon Tetrachloride
Concen: 46.638 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:117 Resp: 316660

Ion	Ratio	Lower	Upper
117	100		
119	97.3	74.9	112.3
121	31.1	24.6	37.0





#39
Methylcyclohexane
Concen: 46.332 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

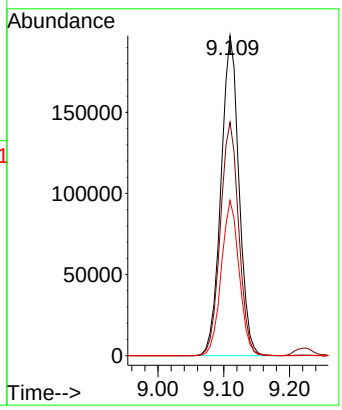
Tgt Ion: 83 Resp: 37478

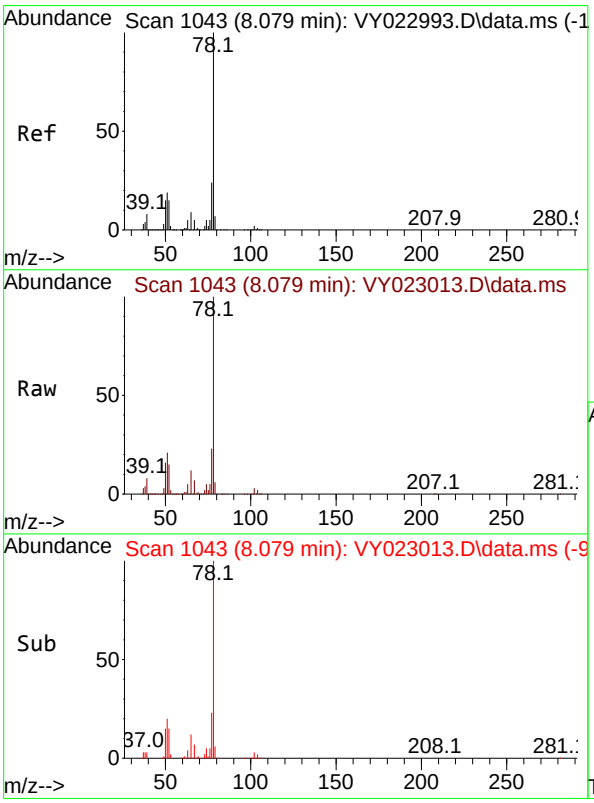
Ion	Ratio	Lower	Upper
83	100		
55	73.0	58.1	87.1
98	48.5	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

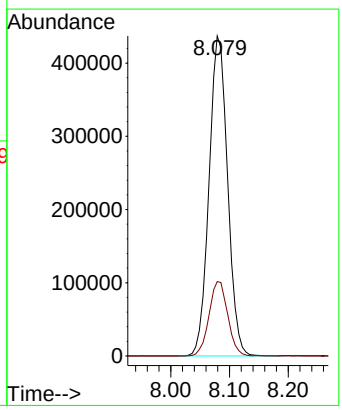


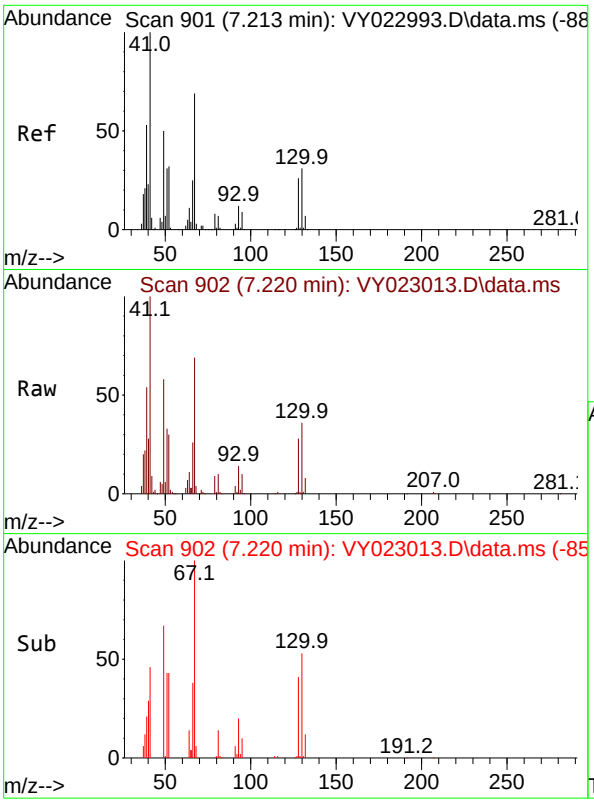


#40
Benzene
Concen: 50.962 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 78 Resp: 958949

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4

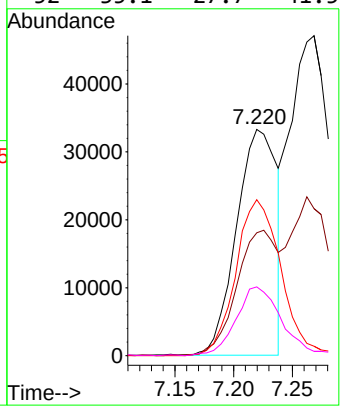




#41
Methacrylonitrile
Concen: 62.602 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 41 Resp: 7915

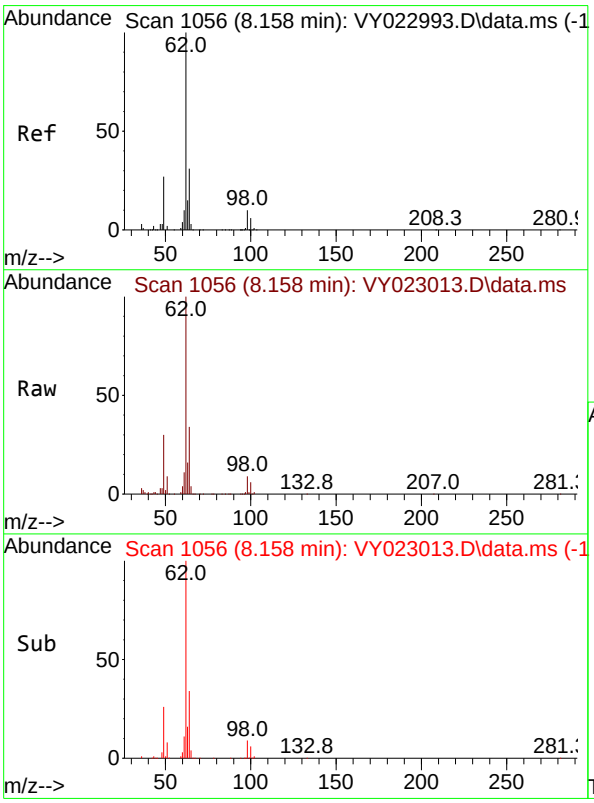
Ion	Ratio	Lower	Upper
41	100		
39	56.0	50.0	75.0
67	78.1	65.4	98.2
52	35.1	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

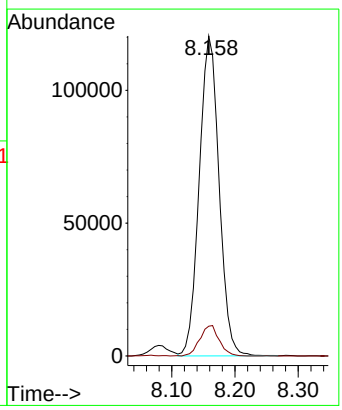
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

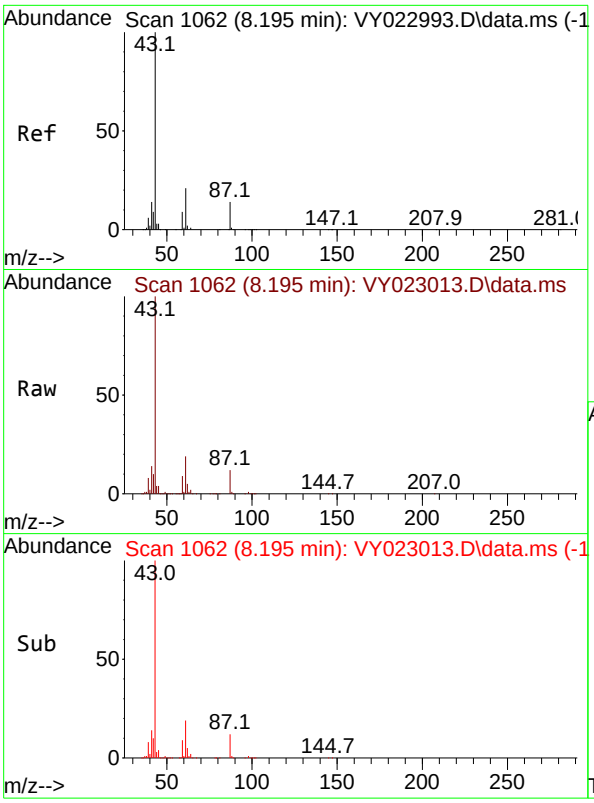


#42
1,2-Dichloroethane
Concen: 56.192 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 62 Resp: 263065

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.0





#43
Isopropyl Acetate
Concen: 62.492 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

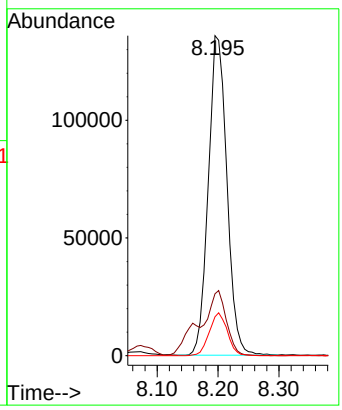
Tgt Ion: 43 Resp: 28812

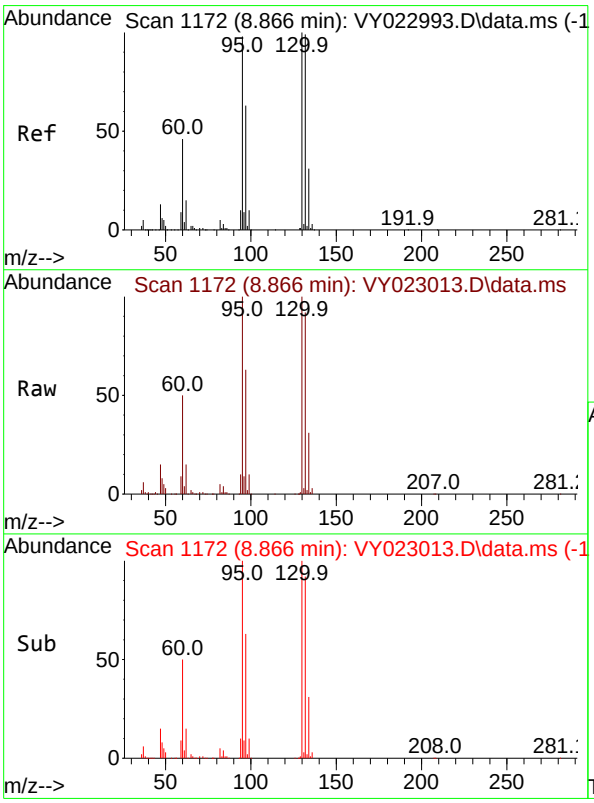
Ion	Ratio	Lower	Upper
43	100		
61	20.4	25.0	37.4
87	13.1	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

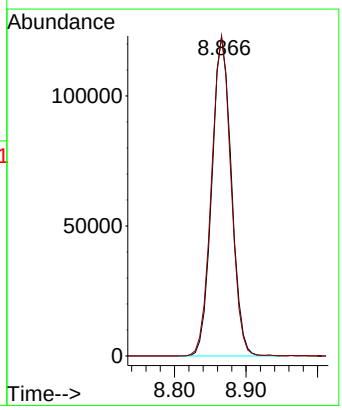


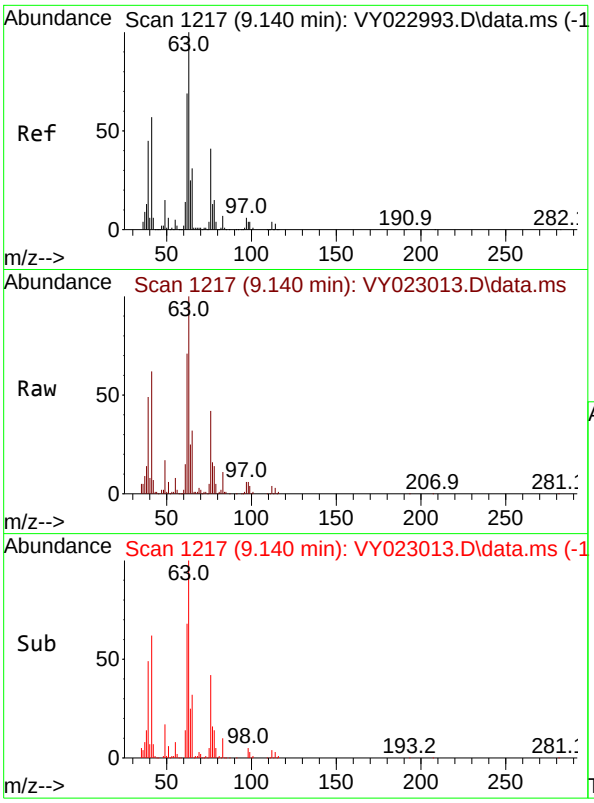


#44
Trichloroethene
Concen: 48.241 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:130 Resp: 233155

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	195.8





#45
1,2-Dichloropropane
Concen: 51.456 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

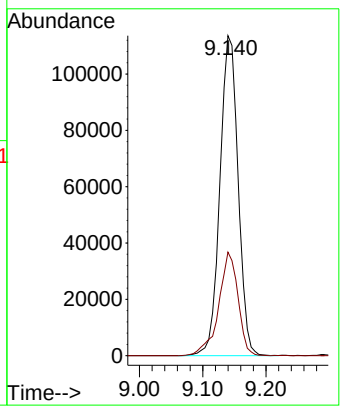
Tgt Ion: 63 Resp: 22610

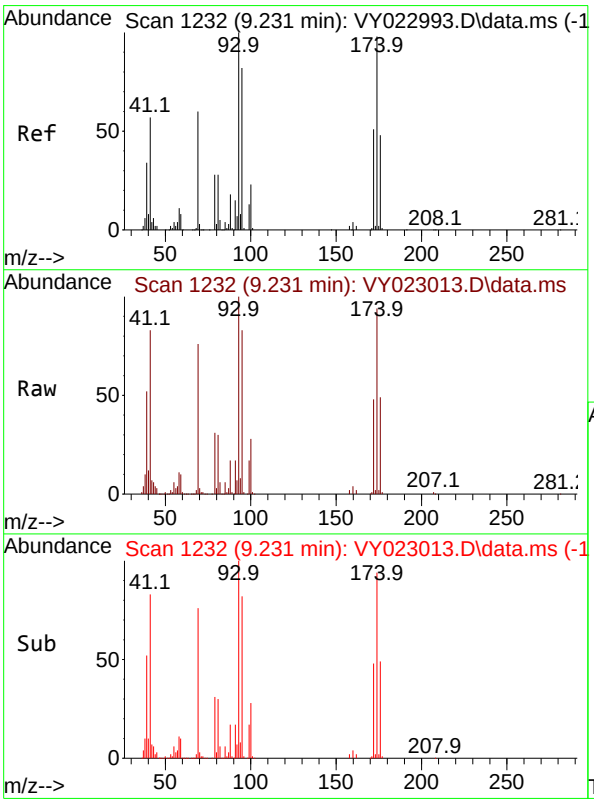
Ion	Ratio	Lower	Upper
63	100		
65	32.3	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

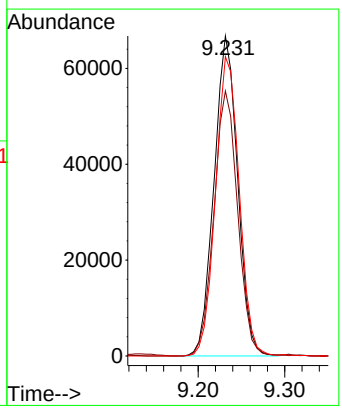


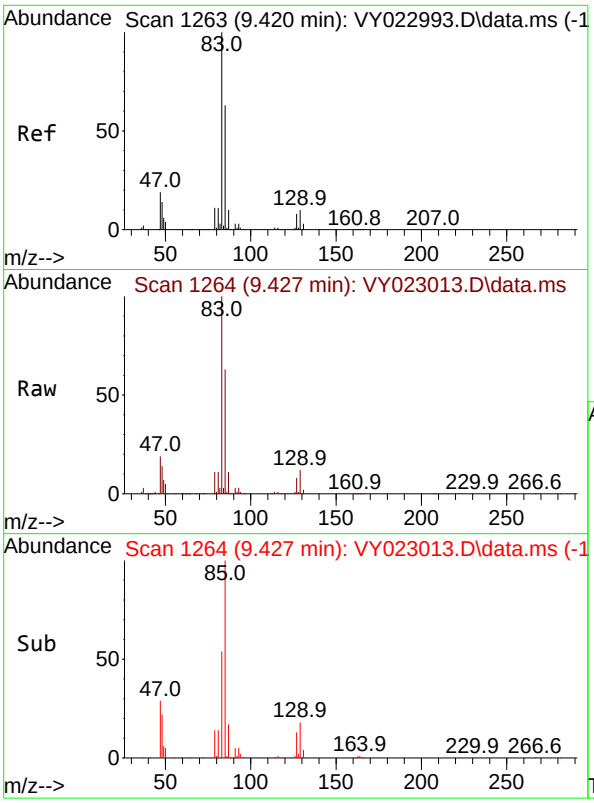


#46
Dibromomethane
Concen: 55.711 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 93 Resp: 126540

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.9	98.9
174	93.8	76.4	114.6

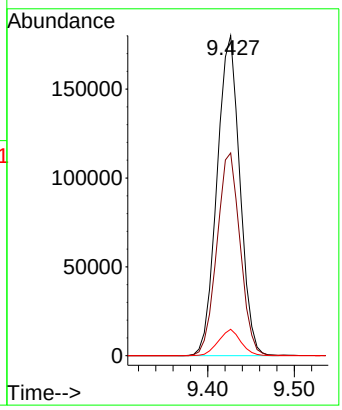




#47
Bromodichloromethane
Concen: 52.581 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 83 Resp: 33012

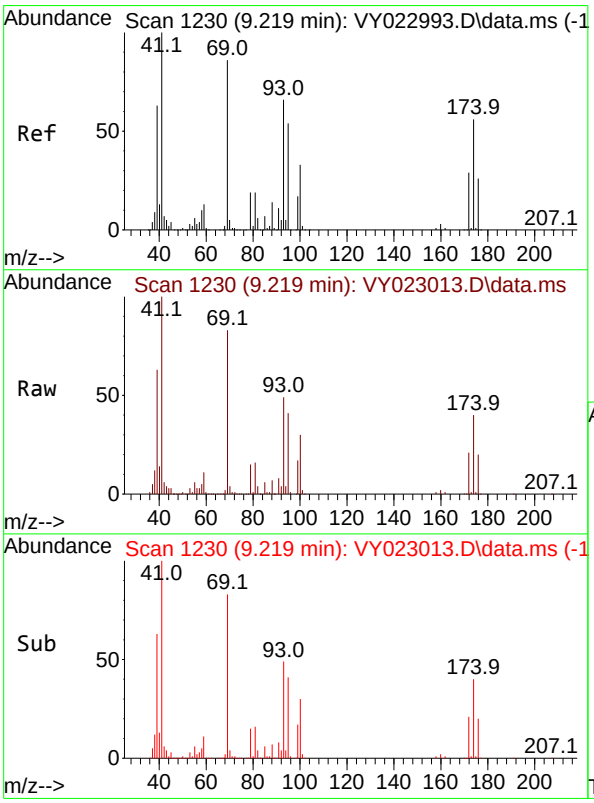
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.6	75.8
127	8.3	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

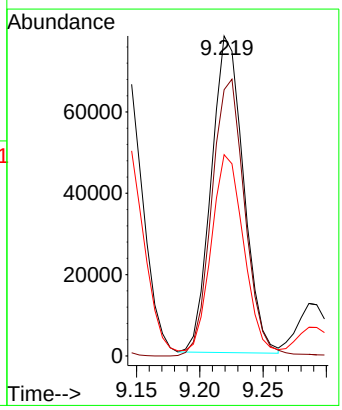
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

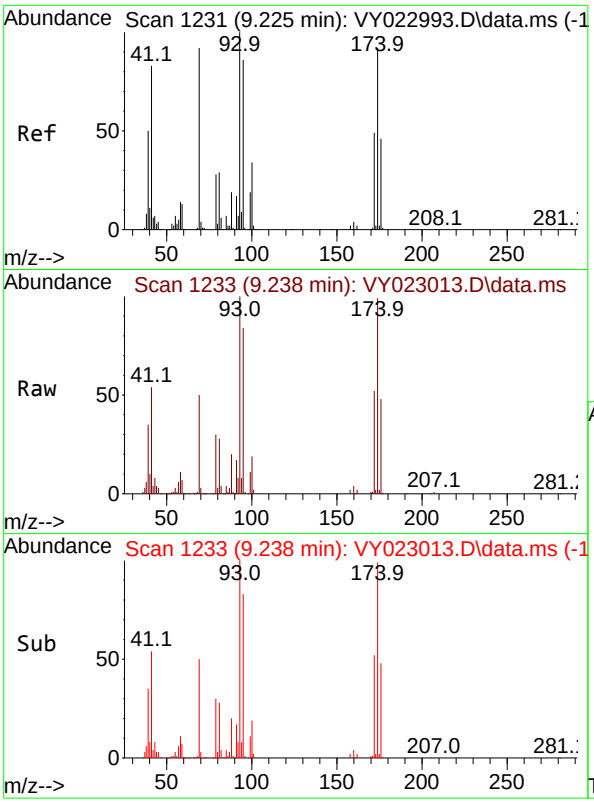


#48
Methyl methacrylate
Concen: 61.977 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 41 Resp: 137956

Ion	Ratio	Lower	Upper
41	100		
69	90.2	71.4	107.0
39	61.7	47.8	71.8

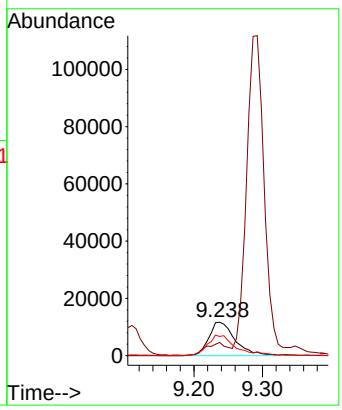




#49
1,4-Dioxane
Concen: 1302.771 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 88 Resp: 3119

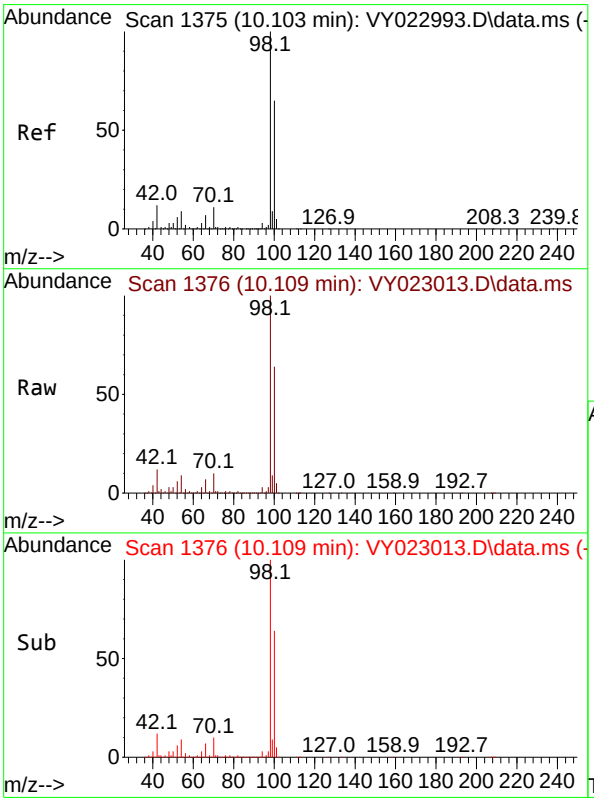
Ion	Ratio	Lower	Upper
88	100		
43	31.9	28.7	43.1
58	66.4	59.8	89.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

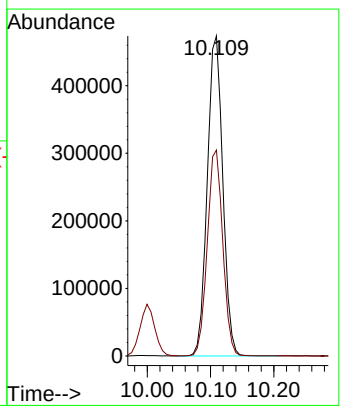
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

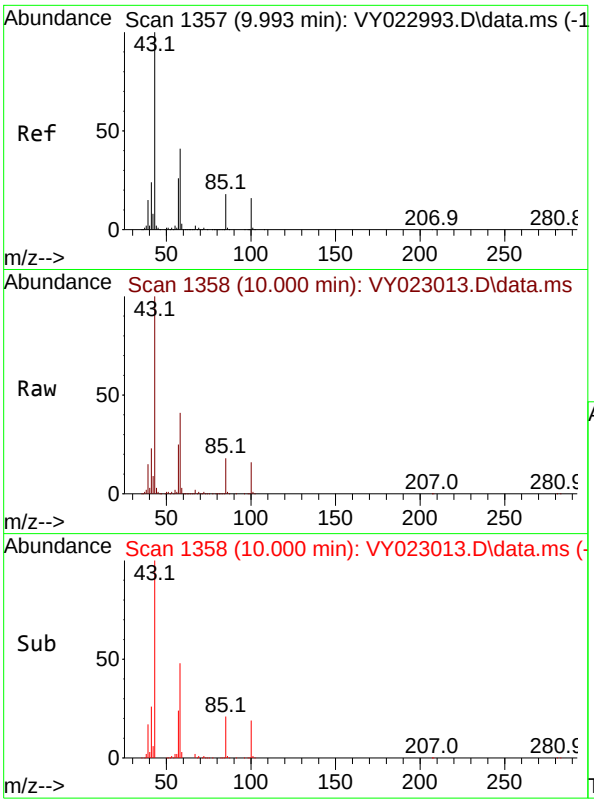


#50
Toluene-d8
Concen: 51.260 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 98 Resp: 806530

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2

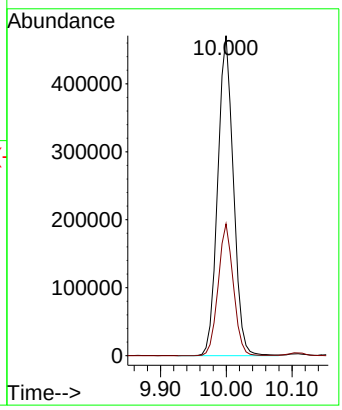




#51
4-Methyl-2-Pentanone
Concen: 332.819 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 77884

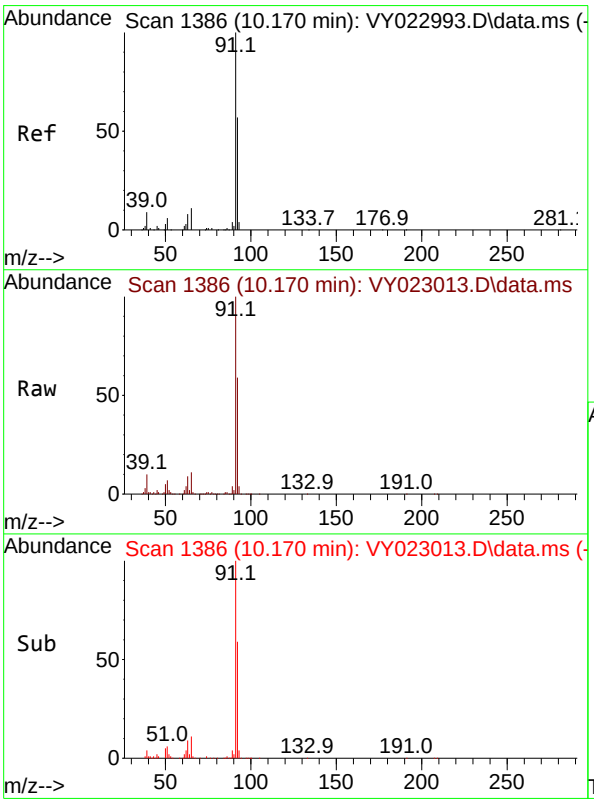
Ion	Ratio	Lower	Upper
43	100		
58	40.1	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

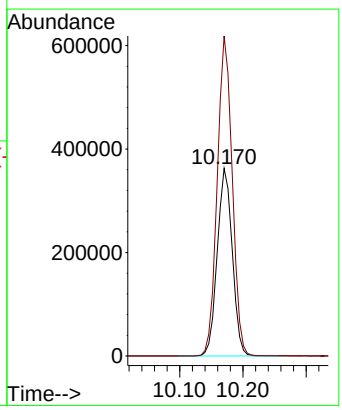
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

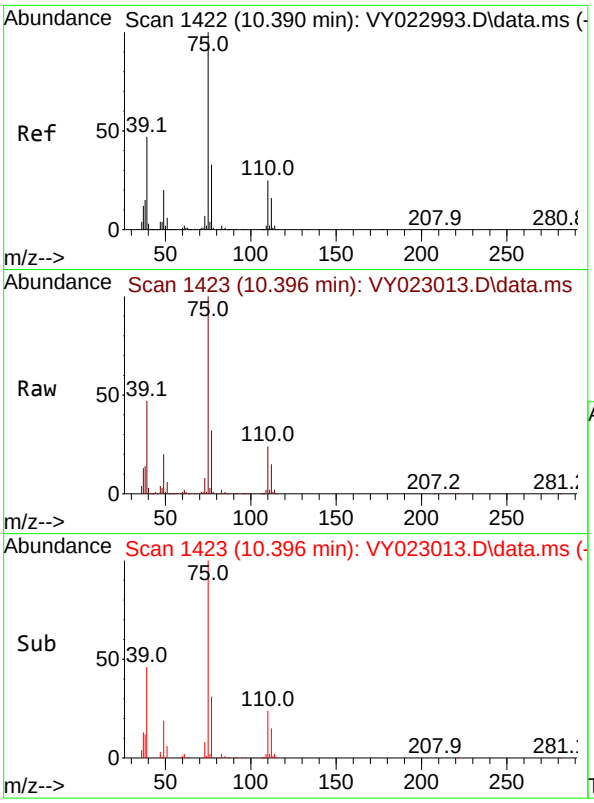


#52
Toluene
Concen: 50.957 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 92 Resp: 596148

Ion	Ratio	Lower	Upper
92	100		
91	170.5	137.8	206.6

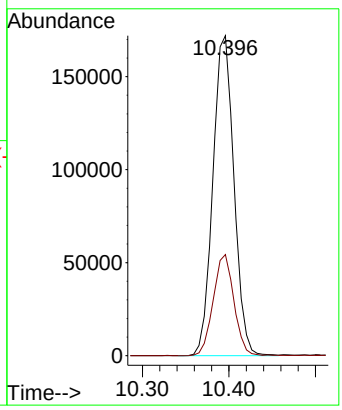




#53
t-1,3-Dichloropropene
Concen: 53.962 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 29082

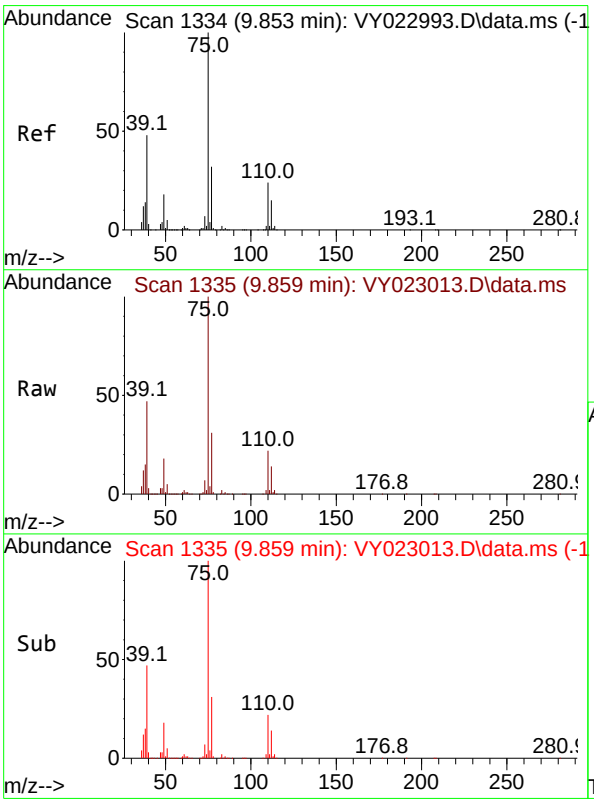
Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

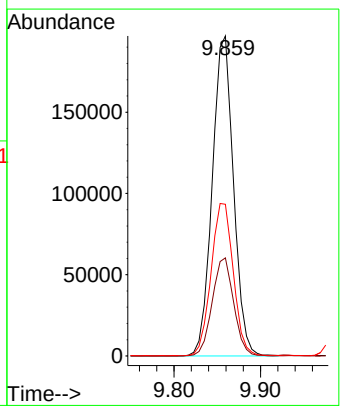
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

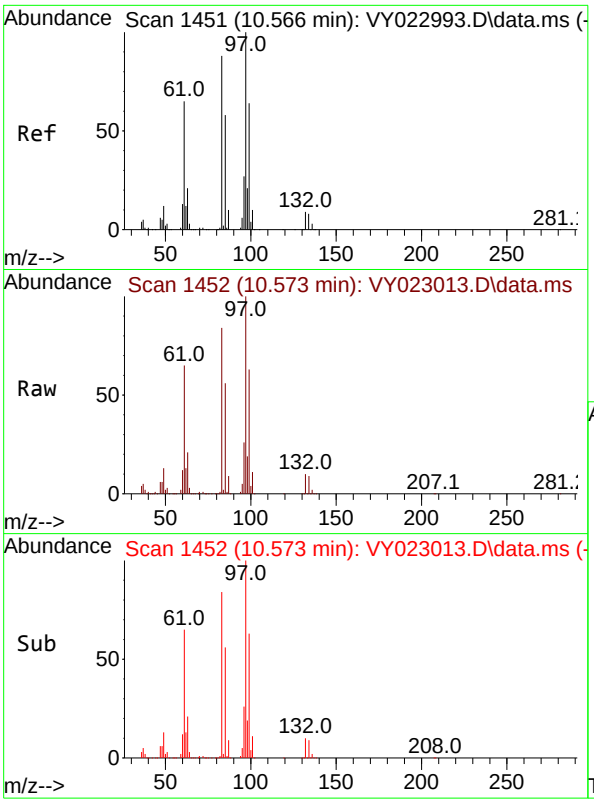


#54
cis-1,3-Dichloropropene
Concen: 51.650 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 335517

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	47.3	38.2	57.2

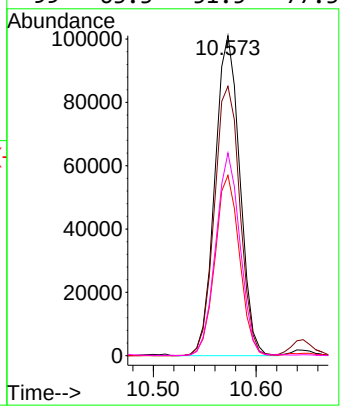




#55
1,1,2-Trichloroethane
Concen: 57.023 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 97 Resp: 17023

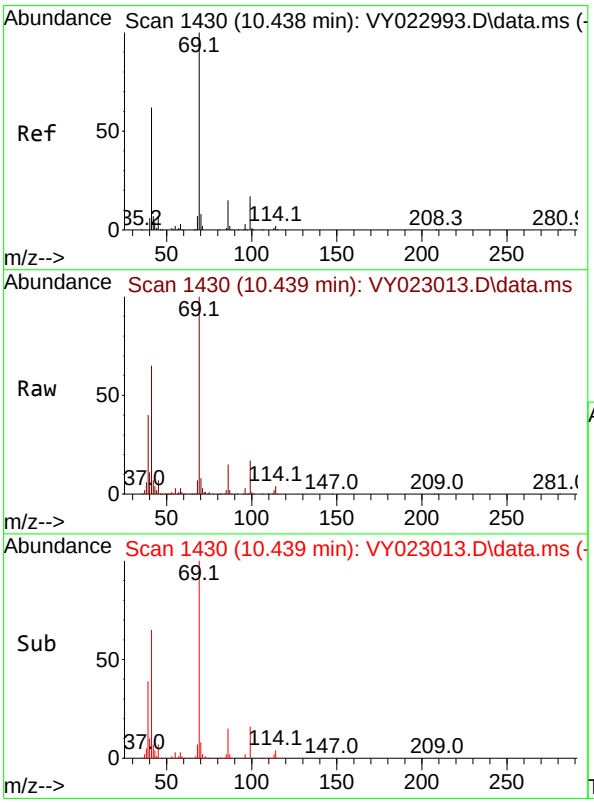
Ion	Ratio	Lower	Upper
97	100		
83	84.2	70.2	105.2
85	56.2	46.2	69.2
99	63.3	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

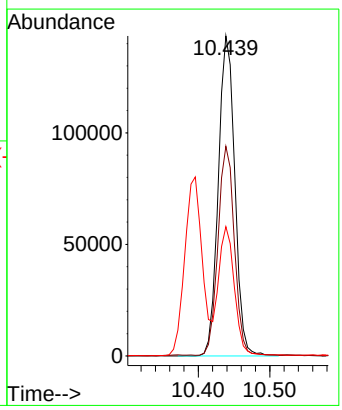
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

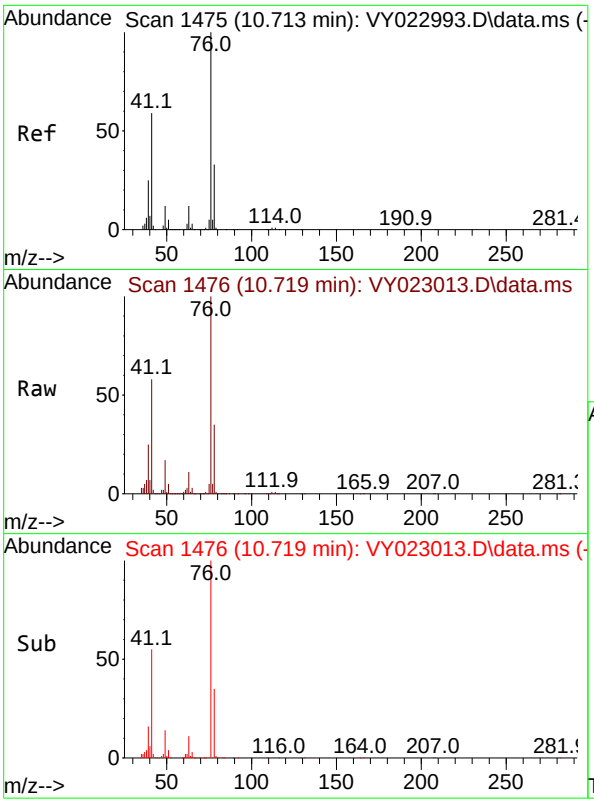


#56
Ethyl methacrylate
Concen: 61.668 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 69 Resp: 229815

Ion	Ratio	Lower	Upper
69	100		
41	64.9	51.0	76.4
39	37.9	30.6	46.0





#57
1,3-Dichloropropane
Concen: 57.137 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

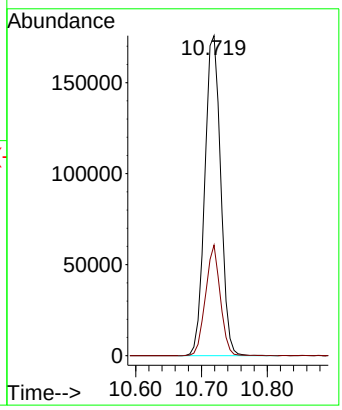
Tgt Ion: 76 Resp: 29465

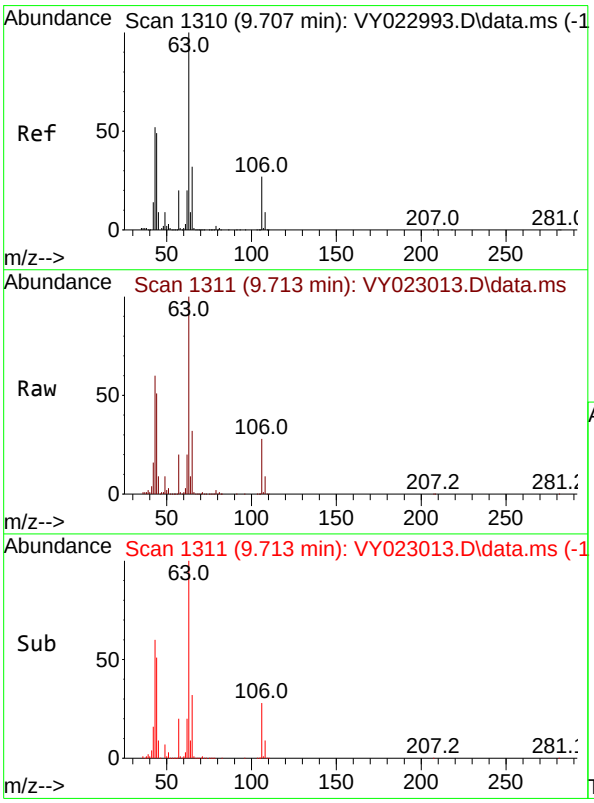
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

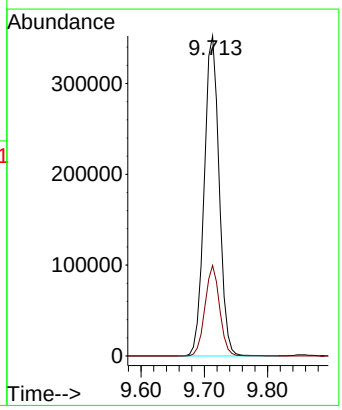


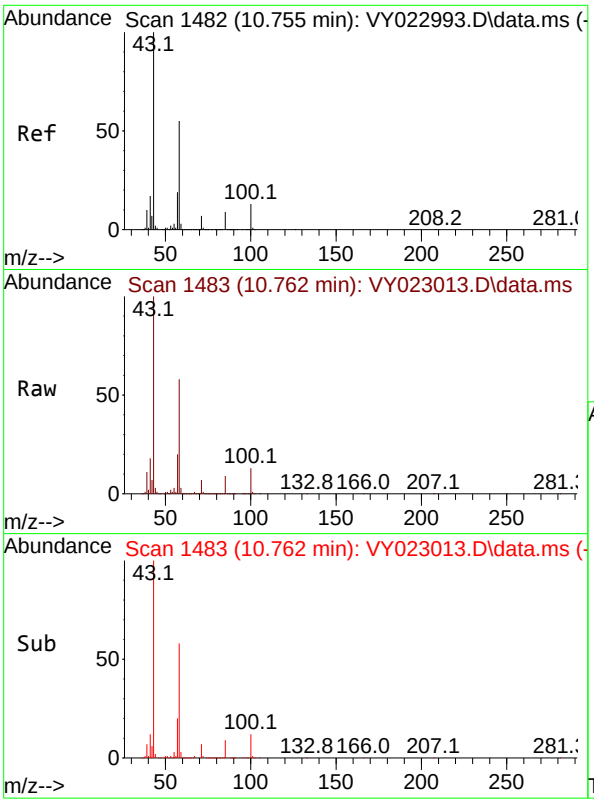


#58
2-Chloroethyl Vinyl ether
Concen: 317.300 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 63 Resp: 578833

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.6	33.8

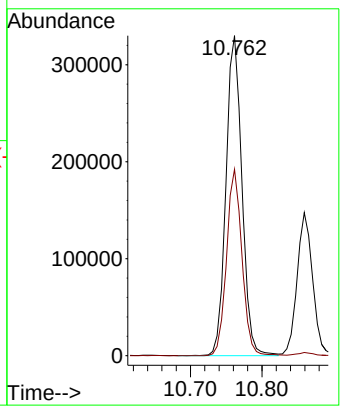




#59
2-Hexanone
Concen: 332.267 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 51110

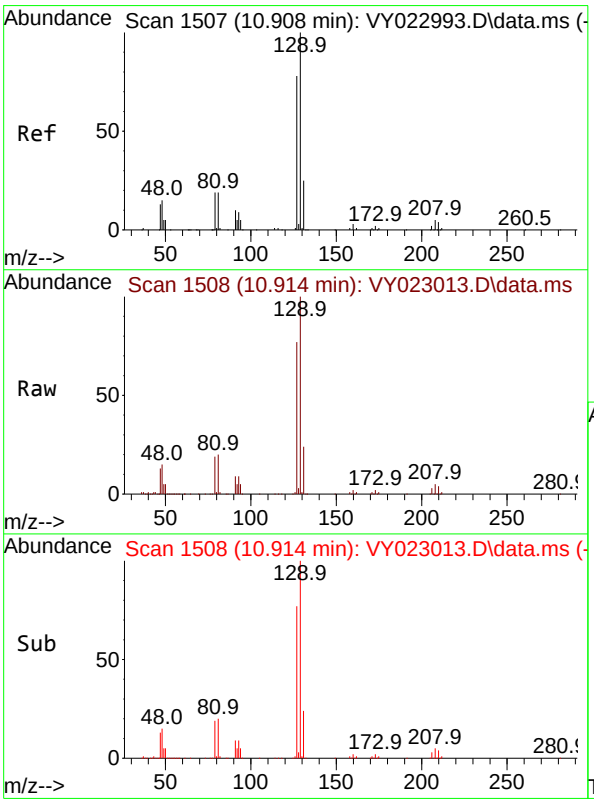
Ion	Ratio	Lower	Upper
43	100		
58	56.3	28.1	84.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

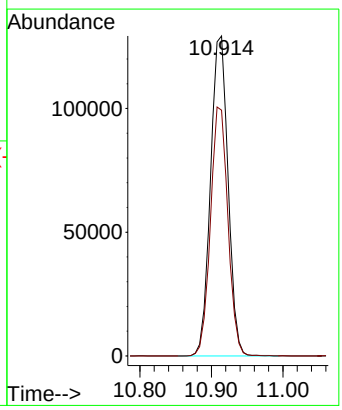
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

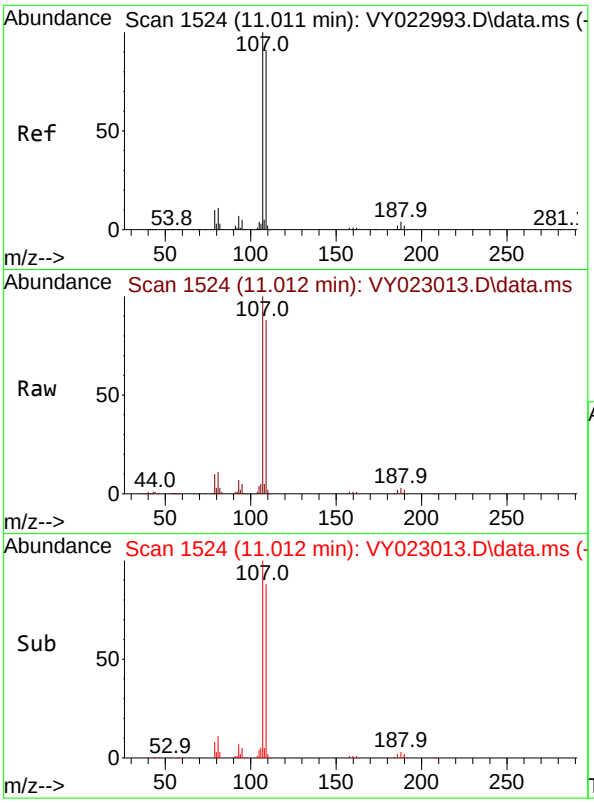


#60
Dibromochloromethane
Concen: 56.249 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:129 Resp: 219889

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.7	116.1

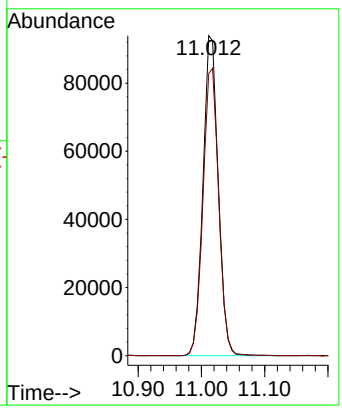




#61
1,2-Dibromoethane
Concen: 58.364 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:107 Resp: 15822

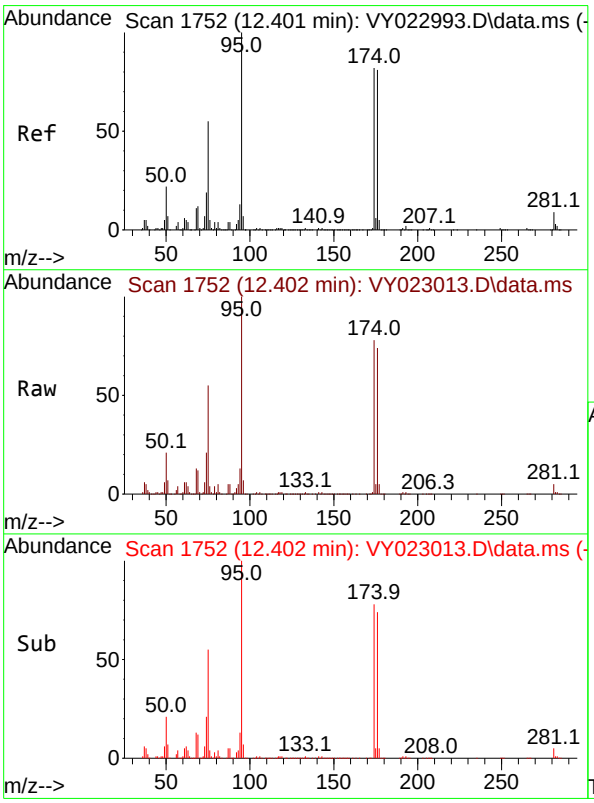
Ion	Ratio	Lower	Upper
107	100		
109	92.3	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

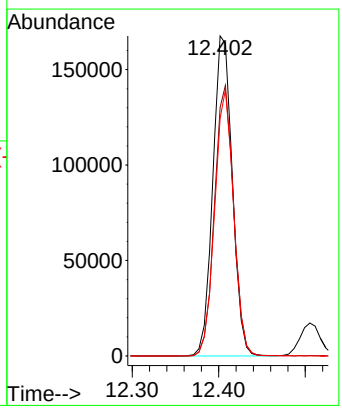
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

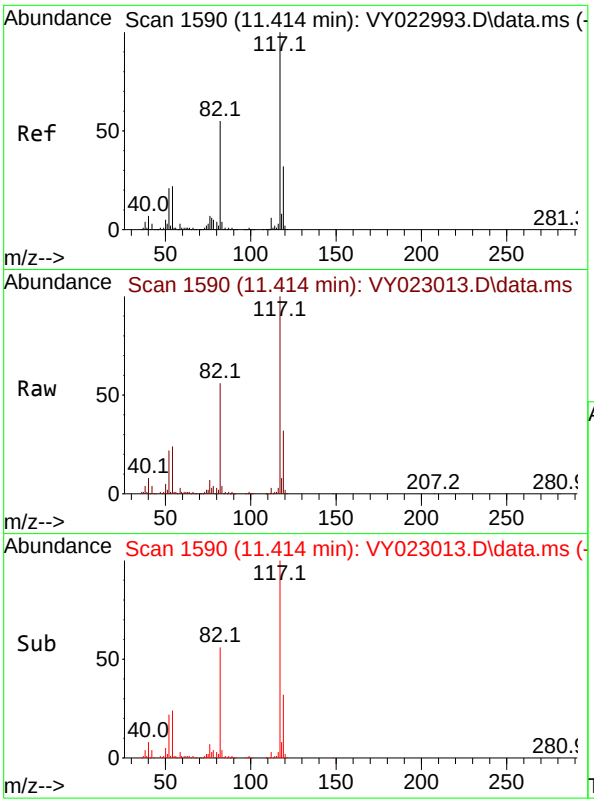


#62
4-Bromofluorobenzene
Concen: 52.830 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 95 Resp: 261655

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.8
176	80.8	0.0	163.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

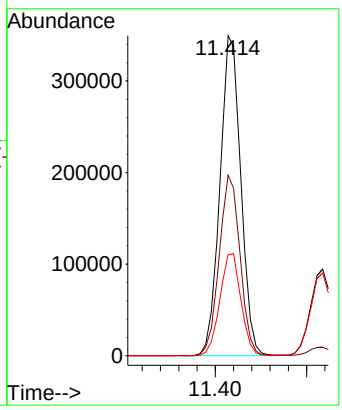
Tgt Ion:117 Resp: 55465

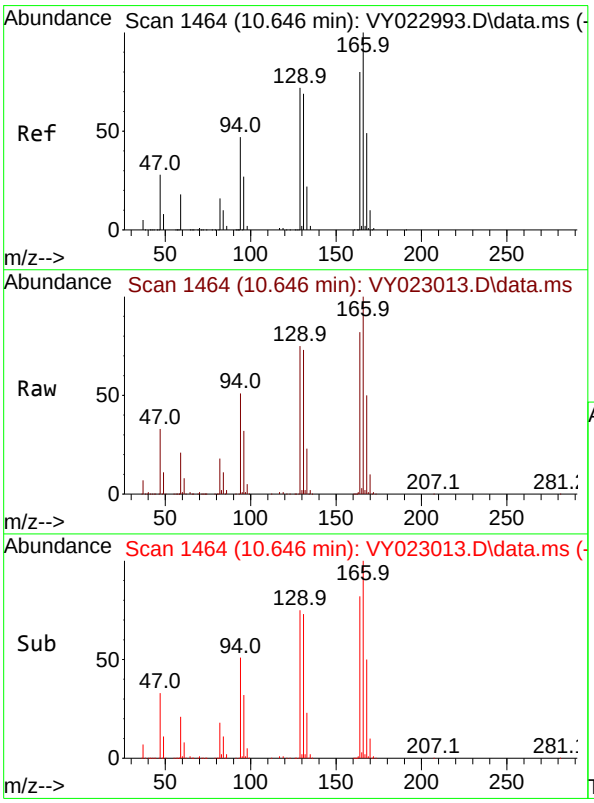
Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.3	66.5
119	31.5	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

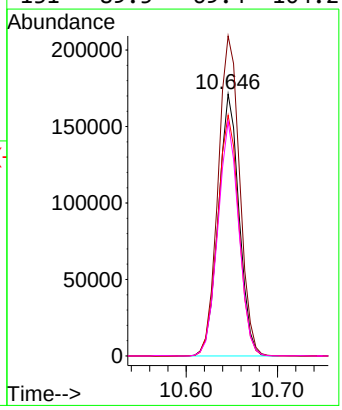


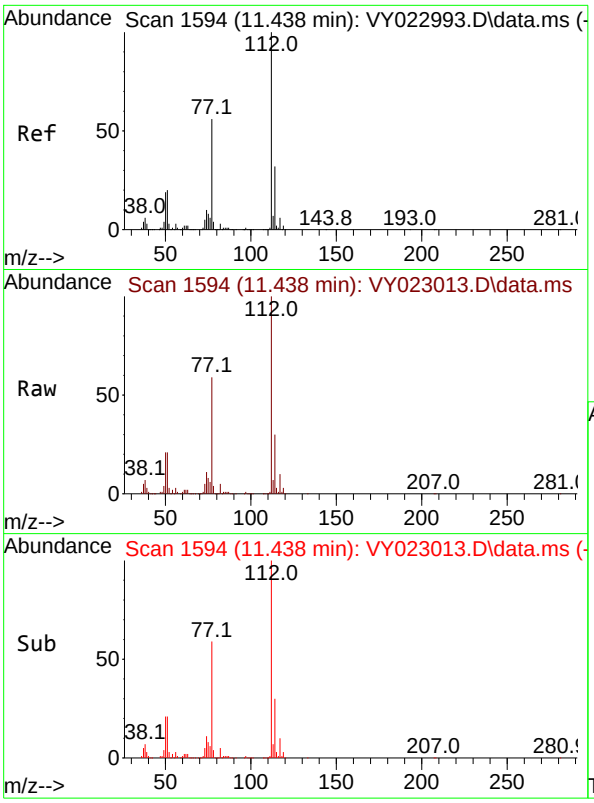


#64
Tetrachloroethene
Concen: 47.704 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:164 Resp: 270447

Ion	Ratio	Lower	Upper
164	100		
166	122.2	100.2	150.2
129	91.9	71.7	107.5
131	89.5	69.4	104.2

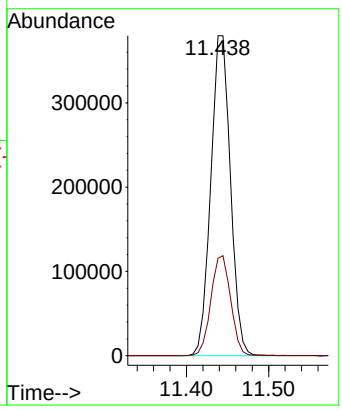




#65
Chlorobenzene
Concen: 48.192 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:112 Resp: 63074

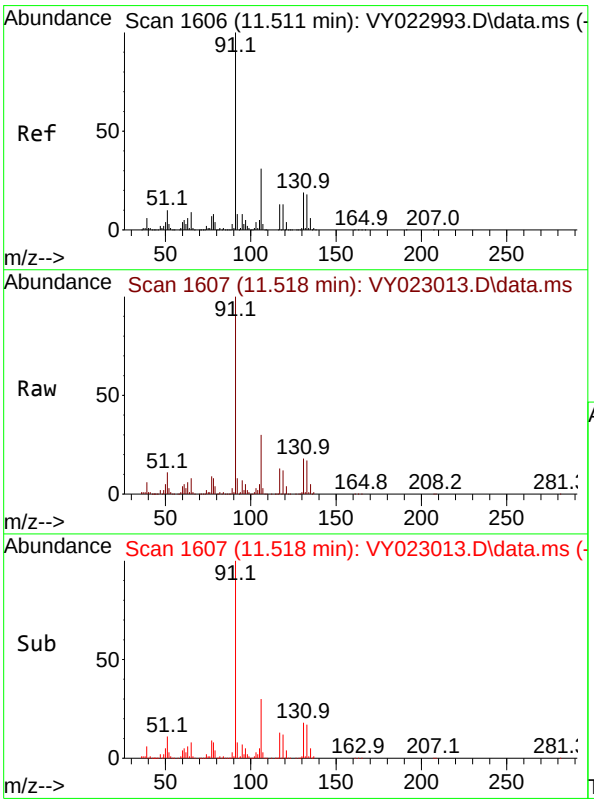
Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

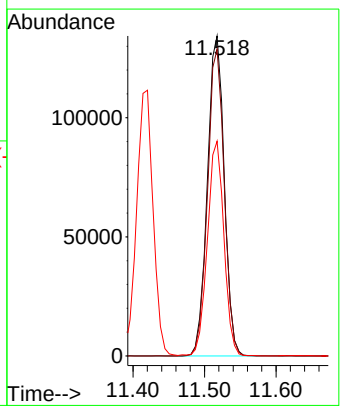
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

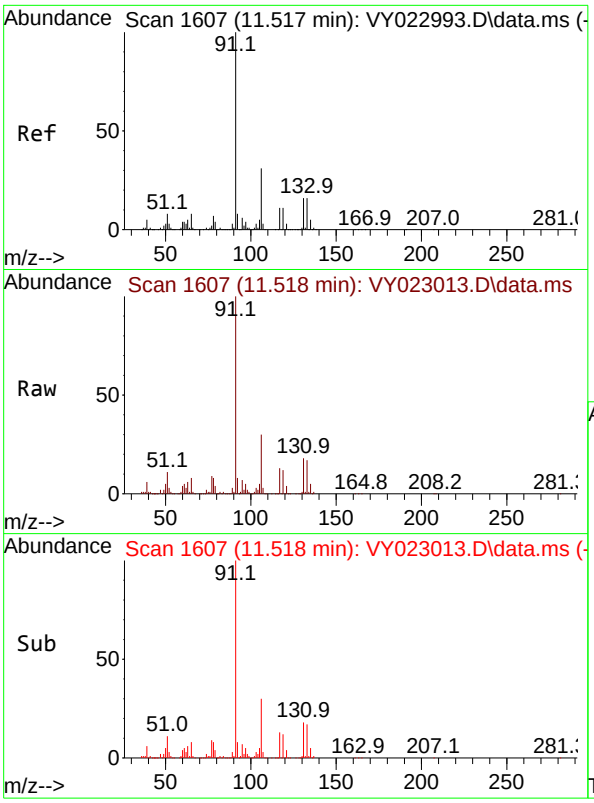


#66
1,1,1,2-Tetrachloroethane
Concen: 49.218 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:131 Resp: 219714

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.8	143.3
119	65.9	33.3	99.8

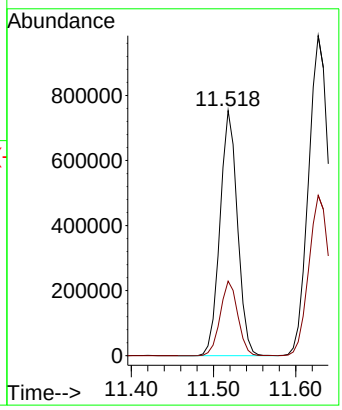




#67
Ethyl Benzene
Concen: 48.092 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 111567

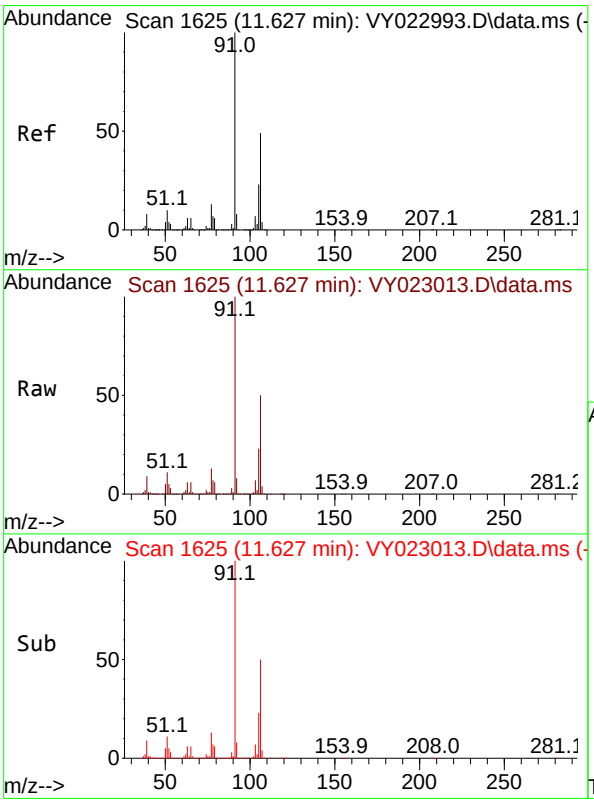
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

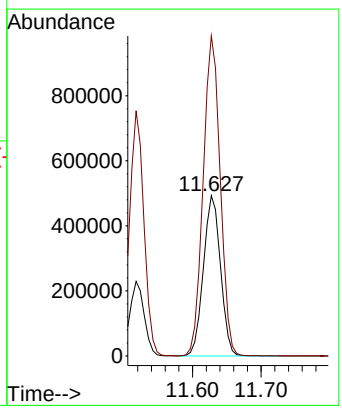
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

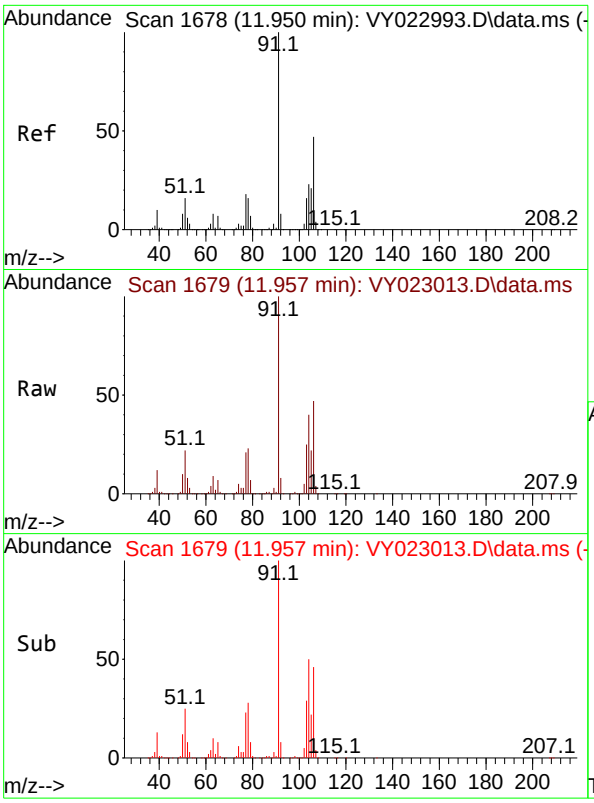


#68
m/p-Xylenes
Concen: 95.970 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:106 Resp: 853956

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8

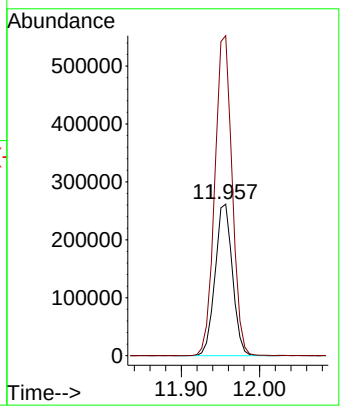




#69
o-Xylene
Concen: 48.691 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:106 Resp: 40208

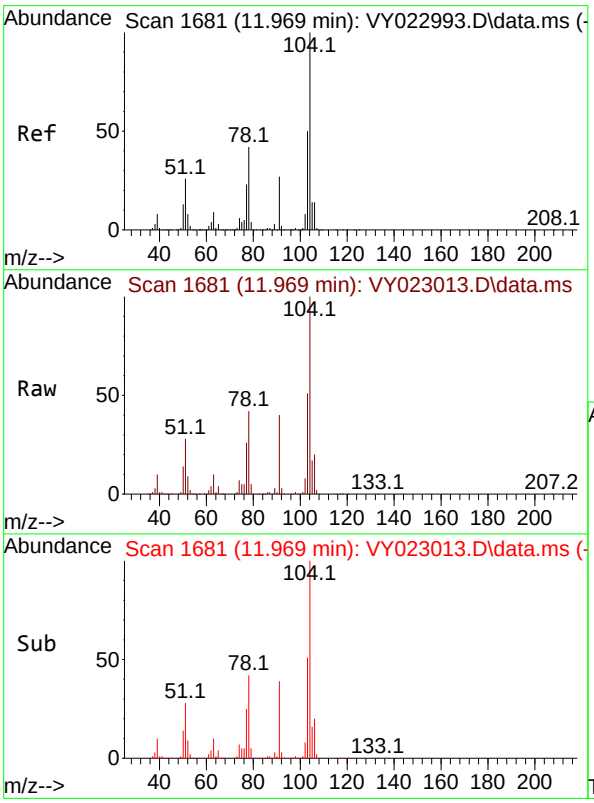
Ion	Ratio	Lower	Upper
106	100		
91	211.7	106.3	318.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

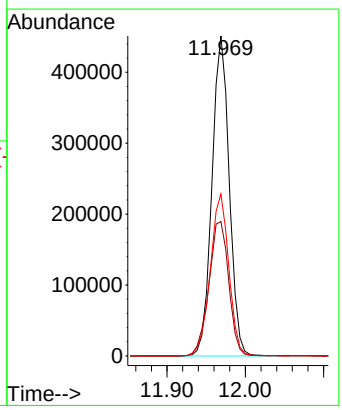
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

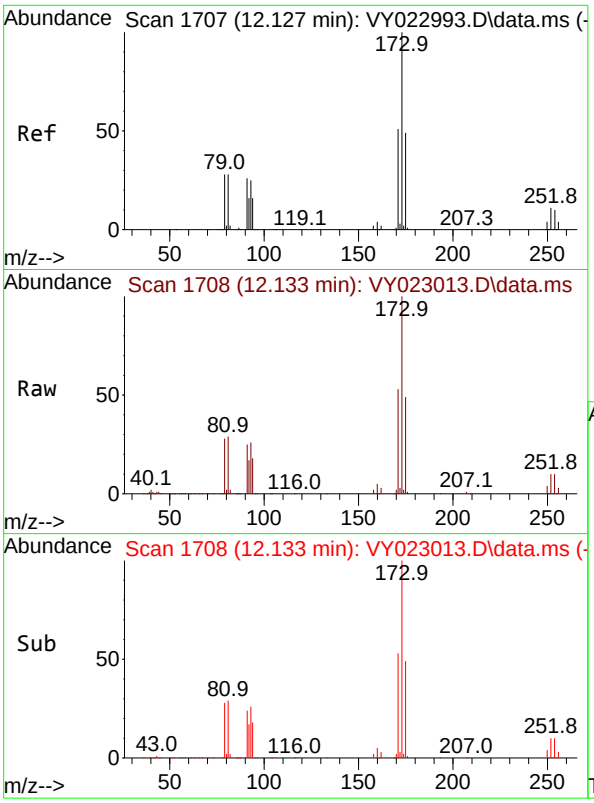


#70
Styrene
Concen: 51.144 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:104 Resp: 691812

Ion	Ratio	Lower	Upper
104	100		
78	48.3	39.0	58.6
103	54.3	43.7	65.5

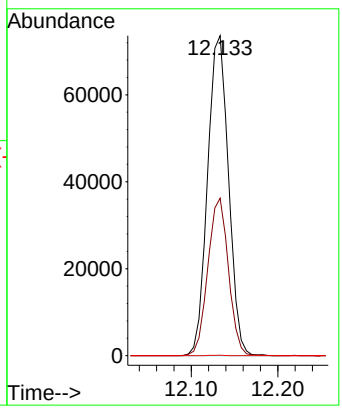




#71
Bromoform
Concen: 54.515 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:173 Resp: 12354

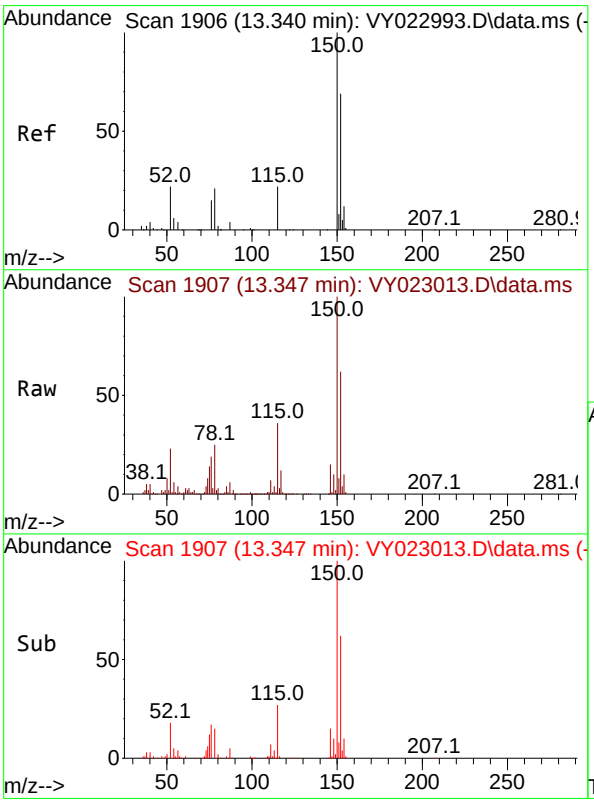
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

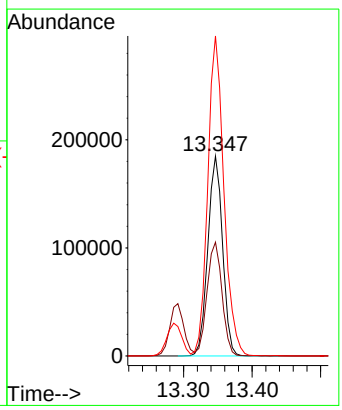
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

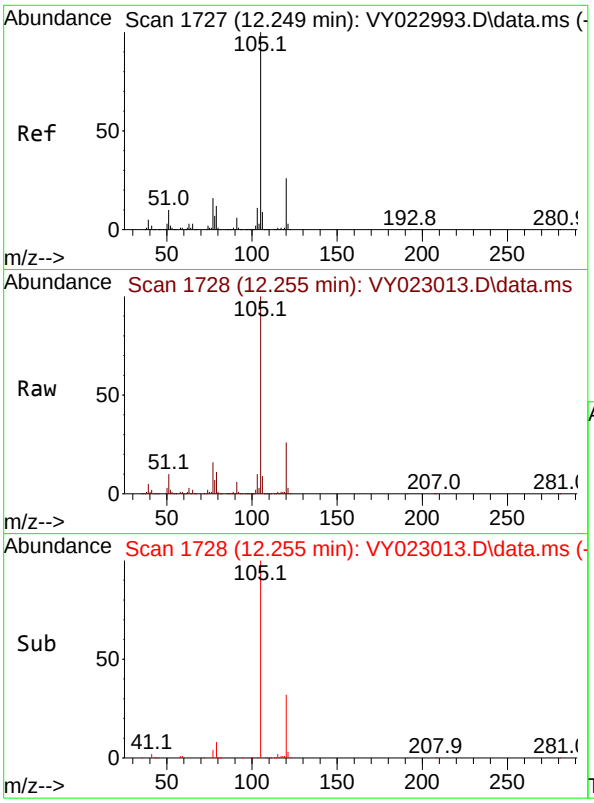


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:152 Resp: 276744

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	175.1	0.0	350.0

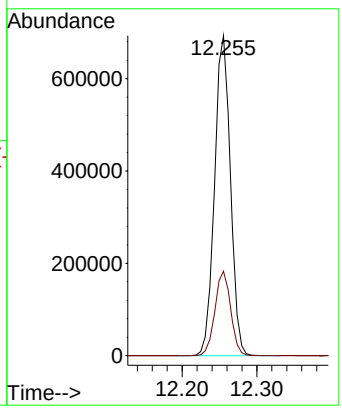




#73
Isopropylbenzene
Concen: 43.551 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:105 Resp: 102184

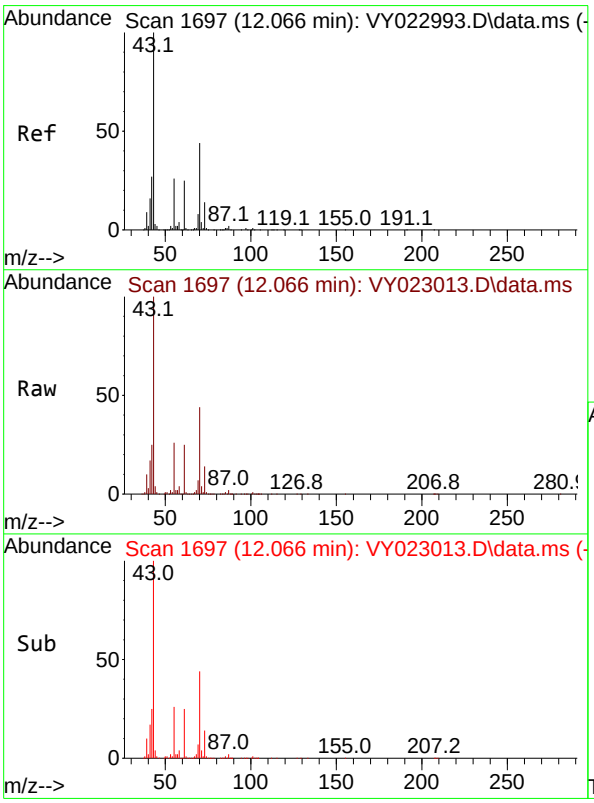
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

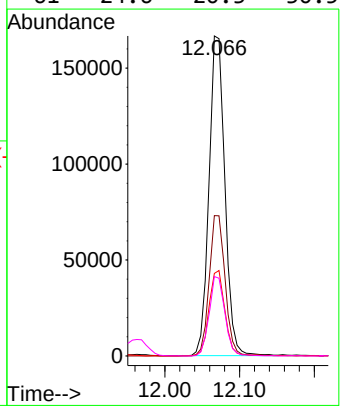
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

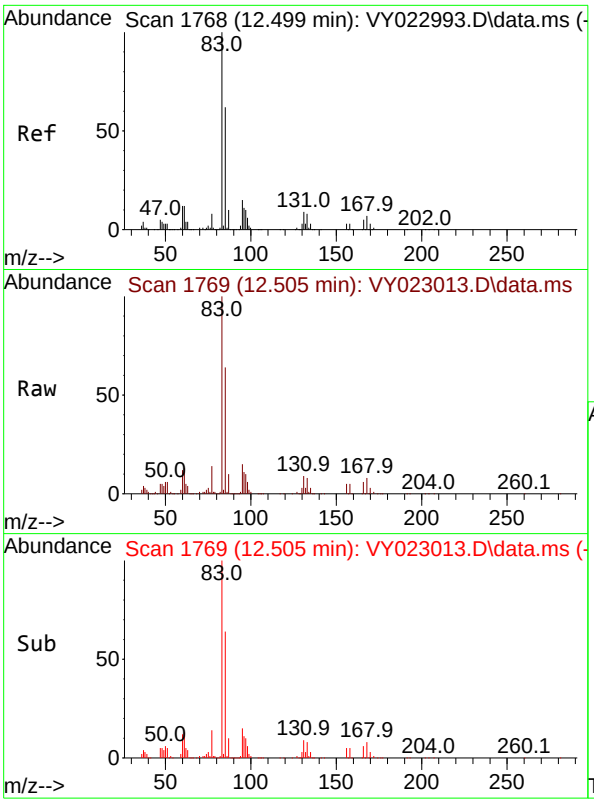


#74
N-amyl acetate
Concen: 55.697 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 246379

Ion	Ratio	Lower	Upper
43	100		
70	44.1	36.2	54.2
55	27.0	20.9	31.3
61	24.6	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 52.314 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

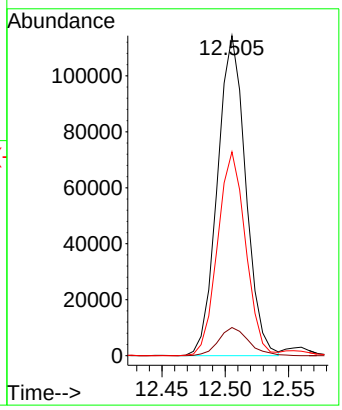
Tgt Ion: 83 Resp: 17762

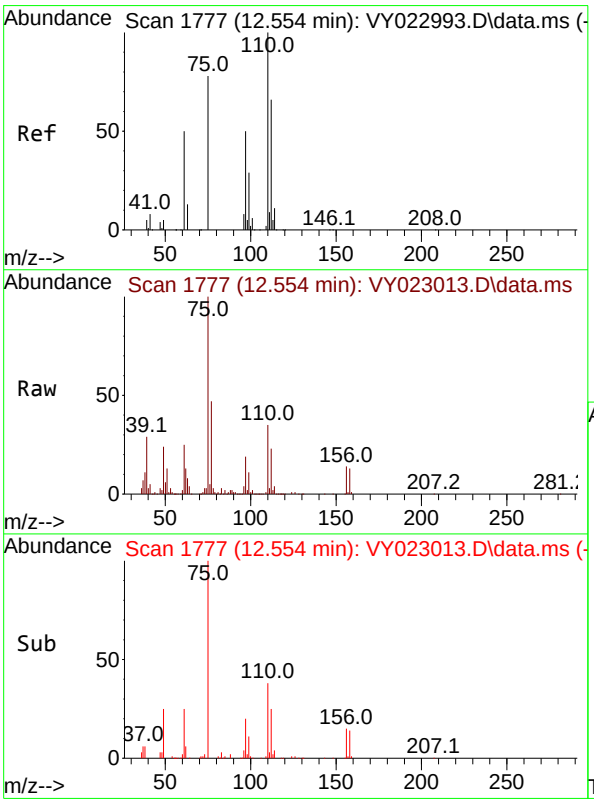
Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.1	15.4
85	63.1	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

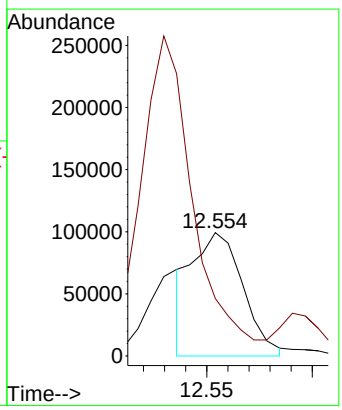


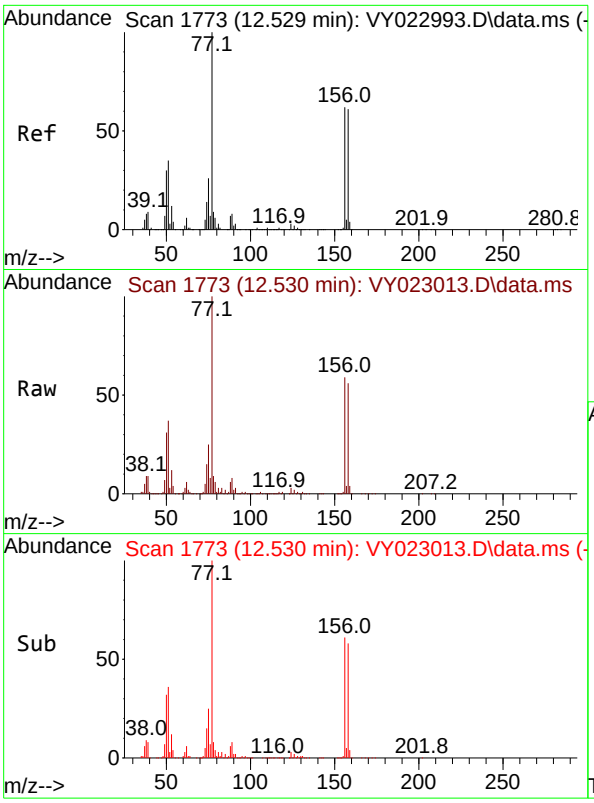


#76
1,2,3-Trichloropropane
Concen: 48.340 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 166699

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

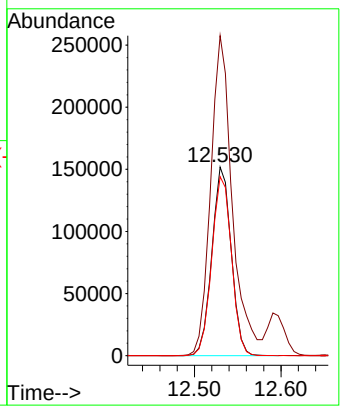




#77
Bromobenzene
Concen: 46.319 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:156 Resp: 23571

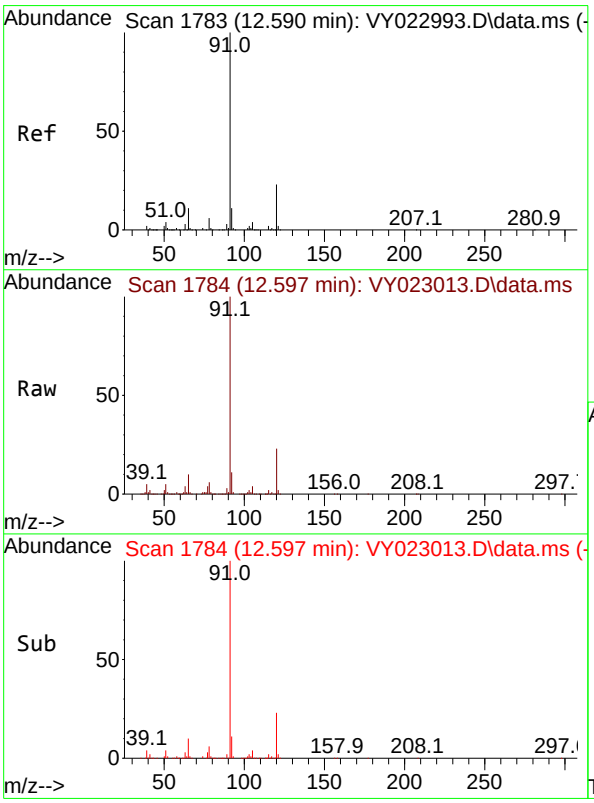
Ion	Ratio	Lower	Upper
156	100		
77	188.0	92.0	276.1
158	96.7	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

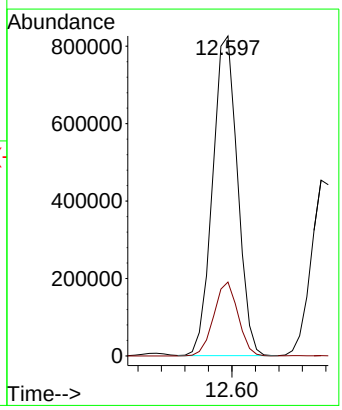
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

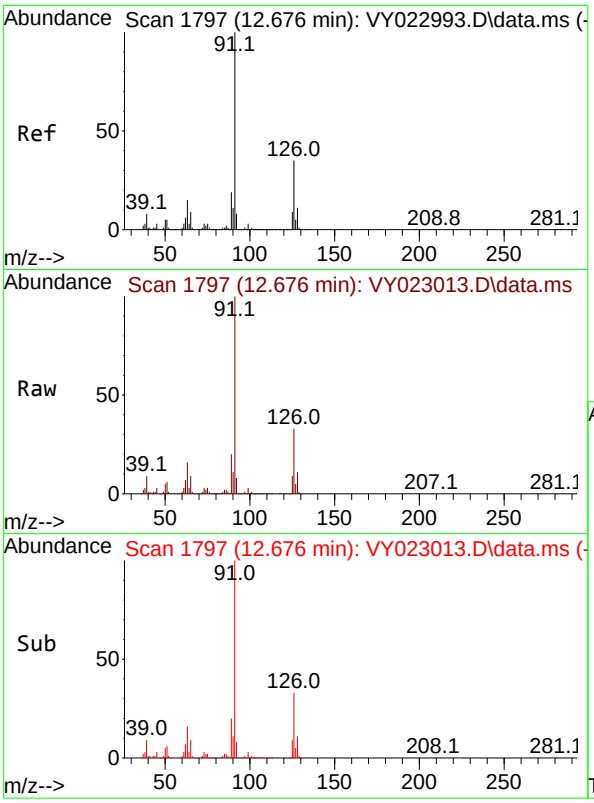


#78
n-propylbenzene
Concen: 43.562 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 1217148

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8

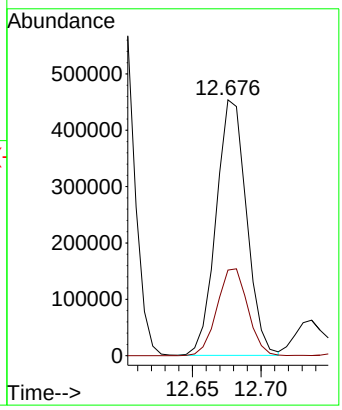




#79
2-Chlorotoluene
Concen: 44.577 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 70049

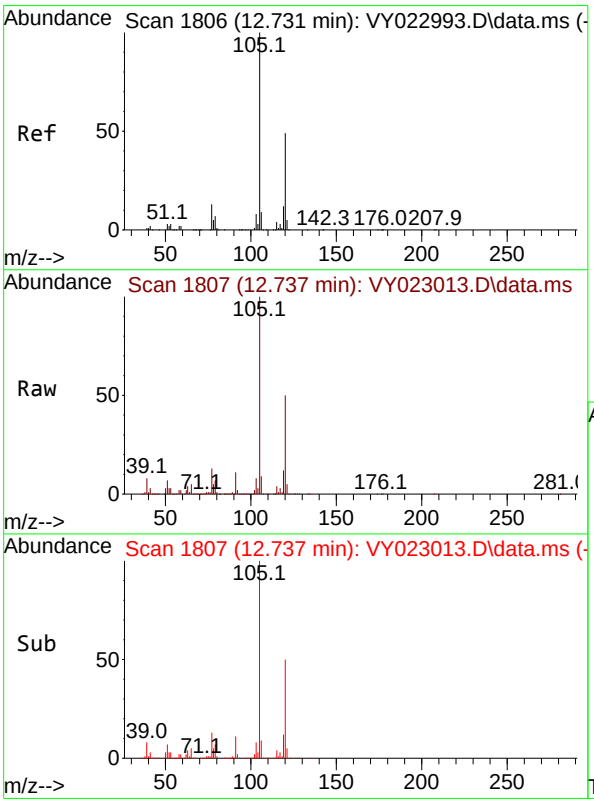
Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.0	50.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

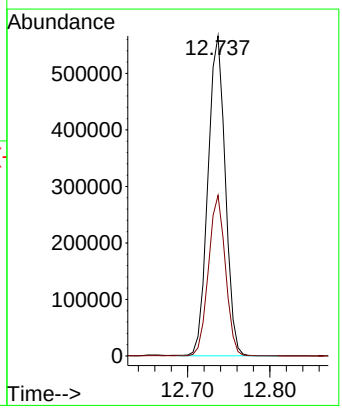
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

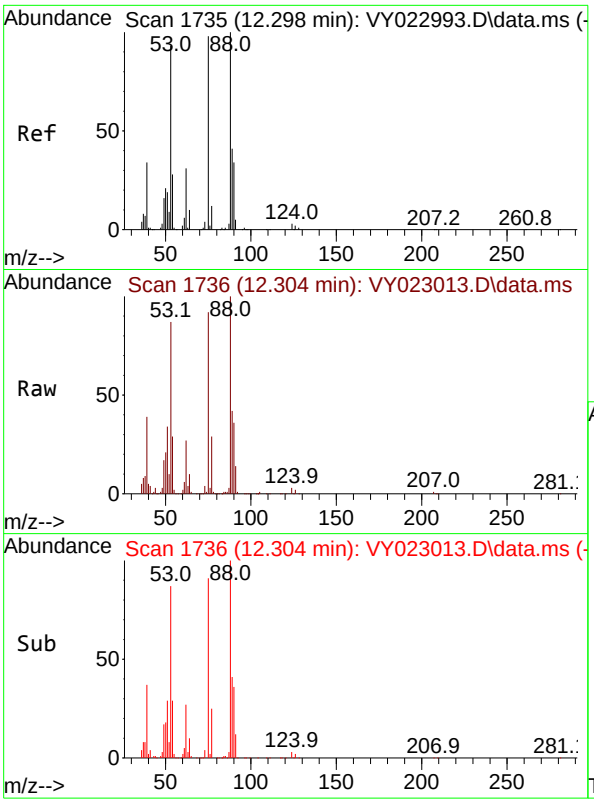


#80
1,3,5-Trimethylbenzene
Concen: 44.746 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:105 Resp: 828035

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.6	73.8





#81
trans-1,4-Dichloro-2-butene
Concen: 49.960 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

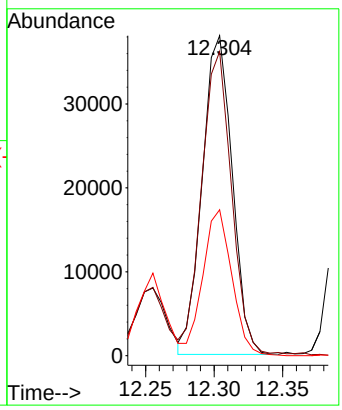
Tgt Ion: 75 Resp: 5784

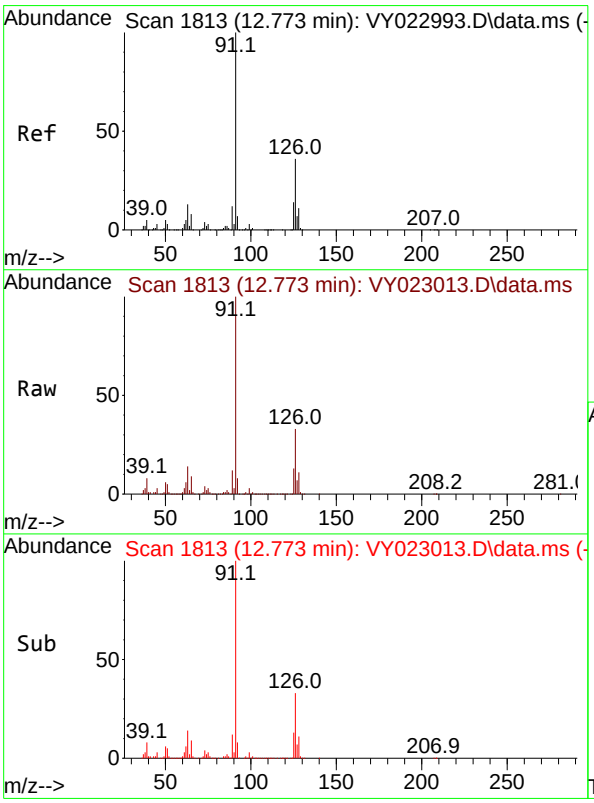
Ion	Ratio	Lower	Upper
75	100		
53	95.7	76.1	114.1
89	44.8	36.1	54.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

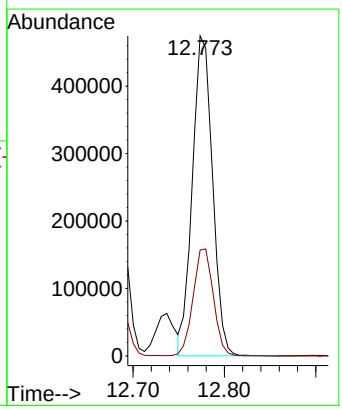


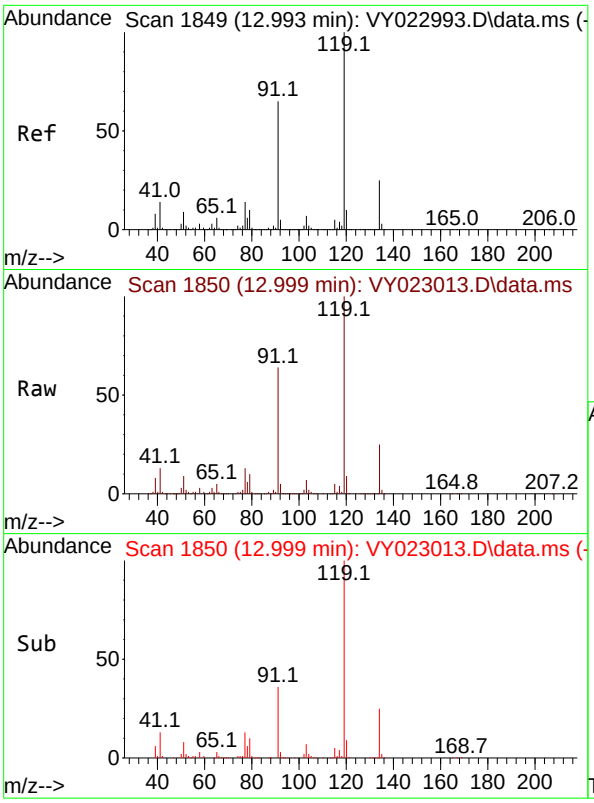


#82
4-Chlorotoluene
Concen: 45.812 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 726082

Ion	Ratio	Lower	Upper
91	100		
126	33.8	17.2	51.5





#83
tert-Butylbenzene
Concen: 43.702 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

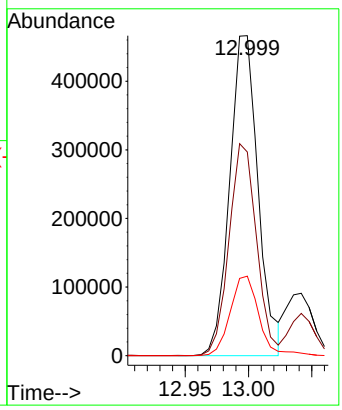
Tgt Ion:119 Resp: 73050

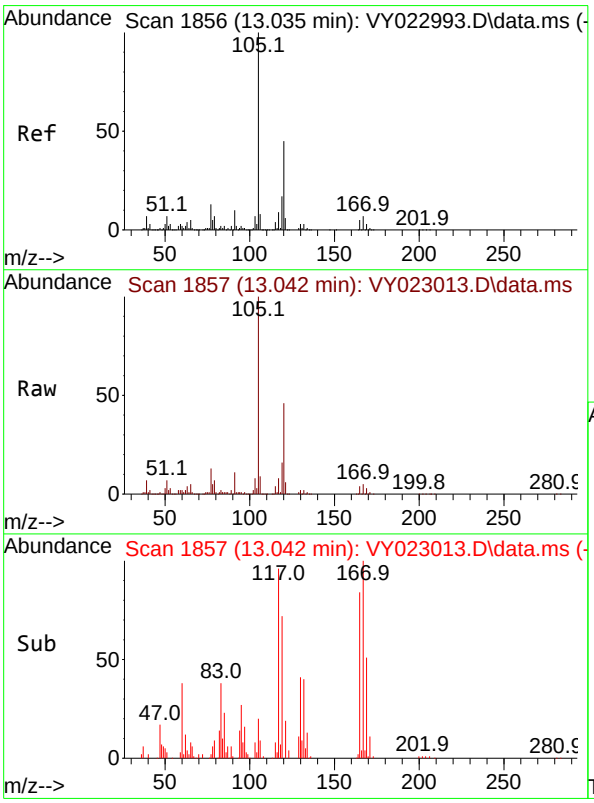
Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.0	96.2
134	25.2	12.6	37.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

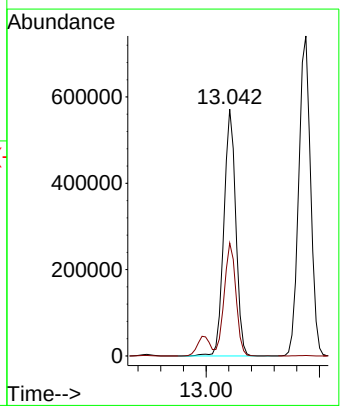


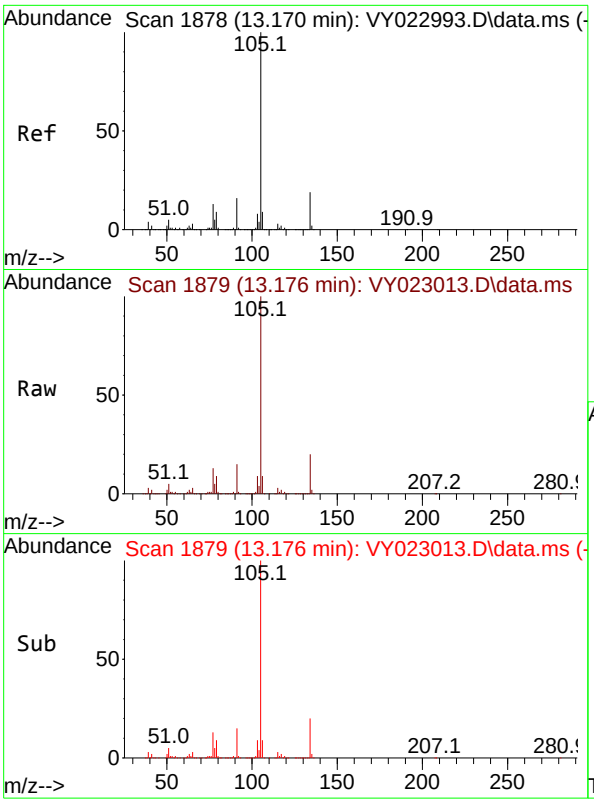


#84
1,2,4-Trimethylbenzene
Concen: 45.601 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:105 Resp: 830661

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.9	68.8

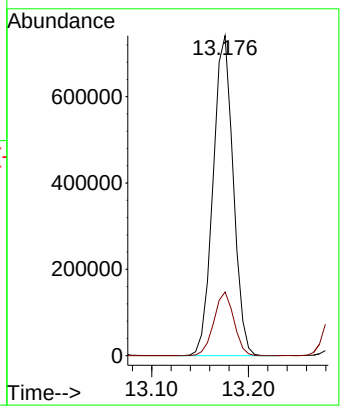




#85
sec-Butylbenzene
Concen: 42.792 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:105 Resp: 107192

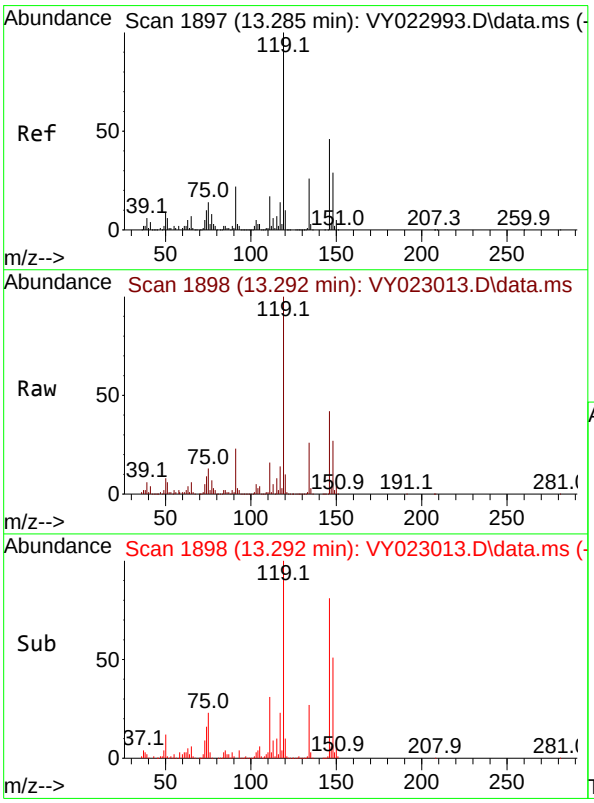
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

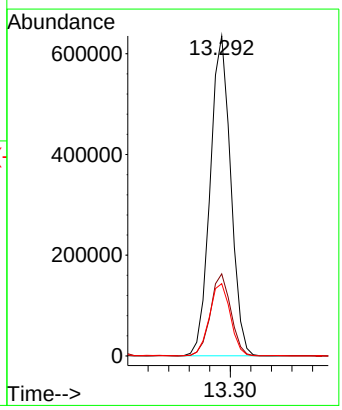
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

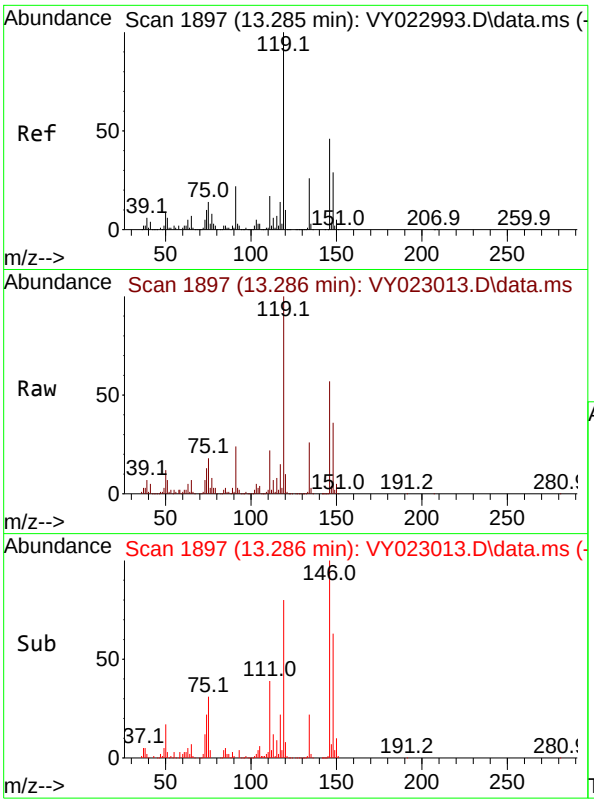


#86
p-Isopropyltoluene
Concen: 43.220 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:119 Resp: 879278

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.1	39.1
91	23.1	11.4	34.1

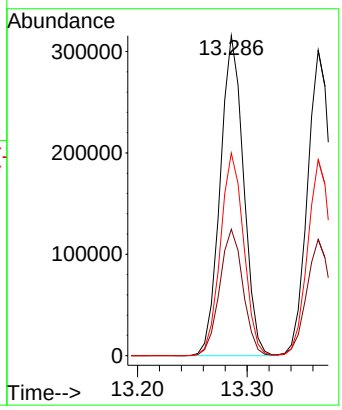




#87
1,3-Dichlorobenzene
Concen: 45.562 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:146 Resp: 46790

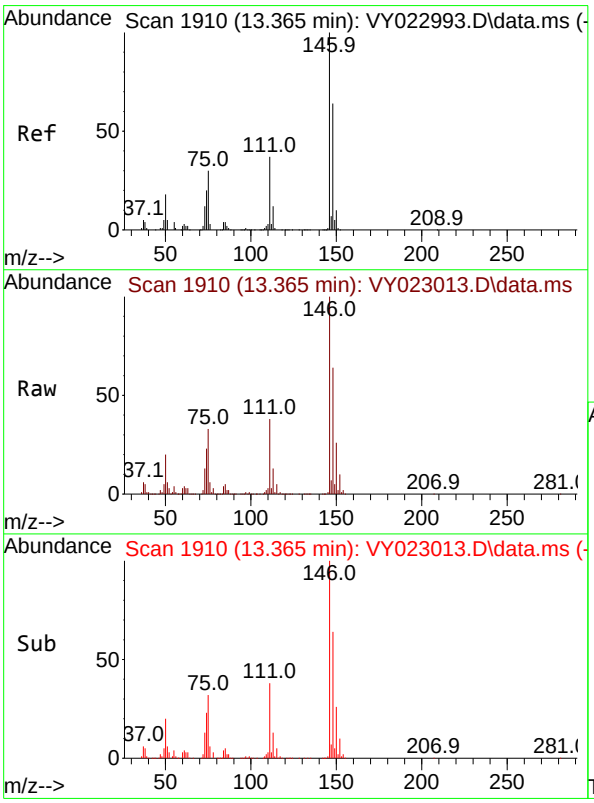
Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.2	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

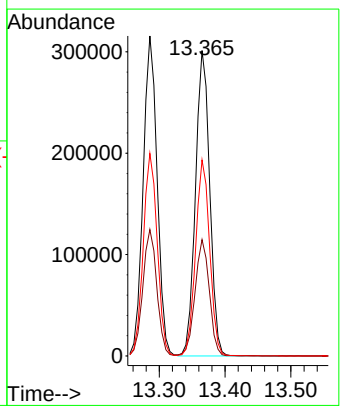
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

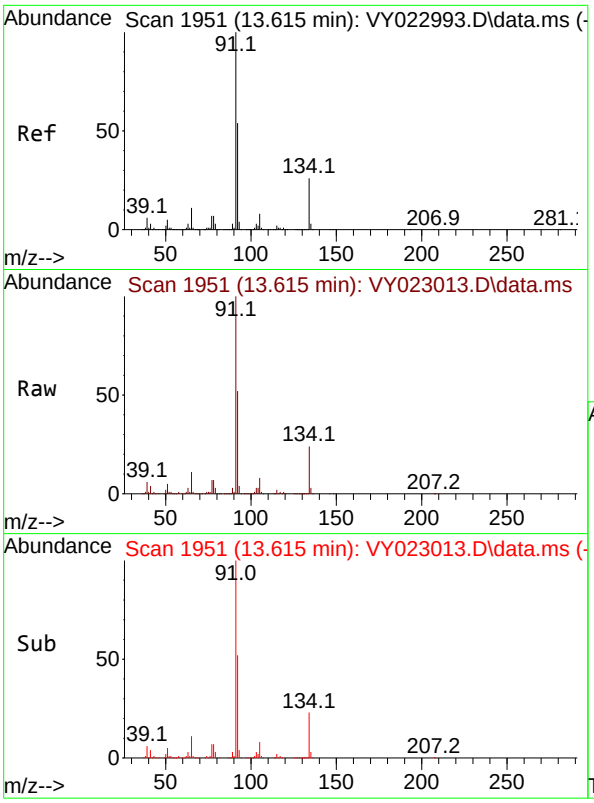


#88
1,4-Dichlorobenzene
Concen: 45.571 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:146 Resp: 452749

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.2	57.6
148	63.5	31.9	95.5

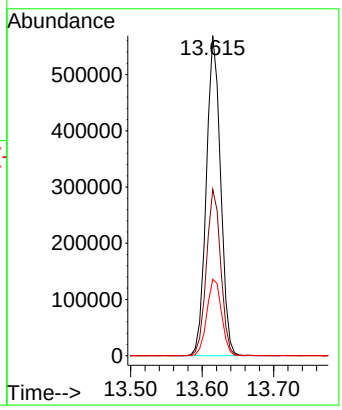




#89
n-Butylbenzene
Concen: 41.930 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 78714

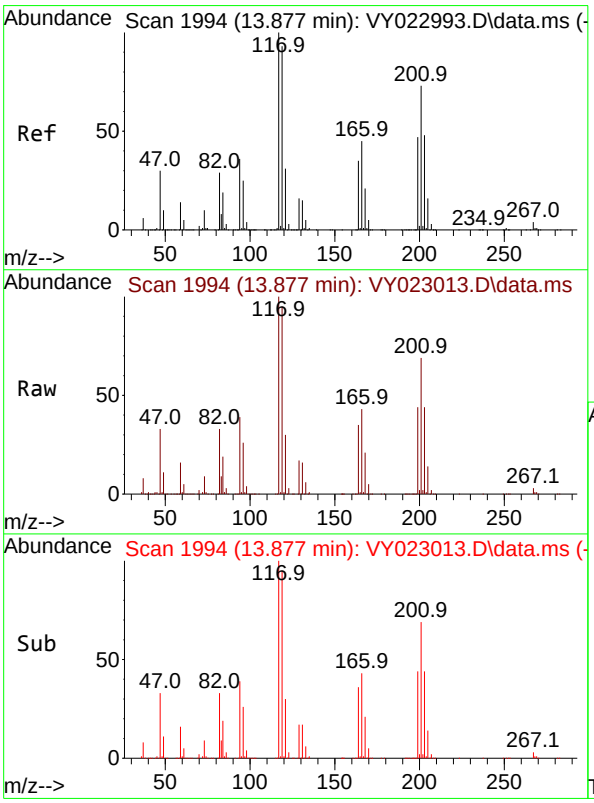
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	24.7	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

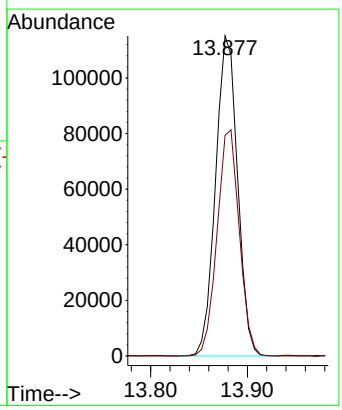
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

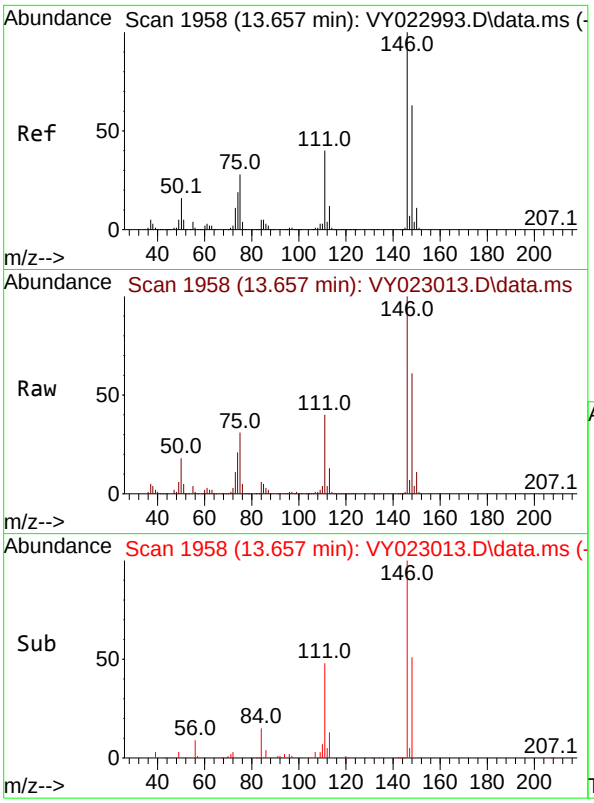


#90
Hexachloroethane
Concen: 43.138 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:117 Resp: 181698

Ion	Ratio	Lower	Upper
117	100		
201	71.4	36.1	108.5

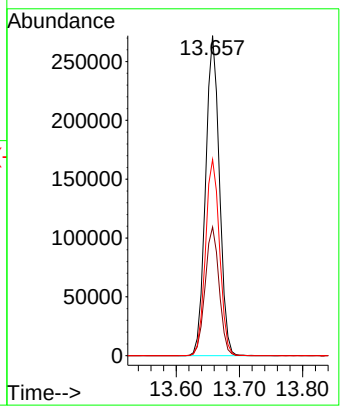




#91
1,2-Dichlorobenzene
Concen: 47.745 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:146 Resp: 41359

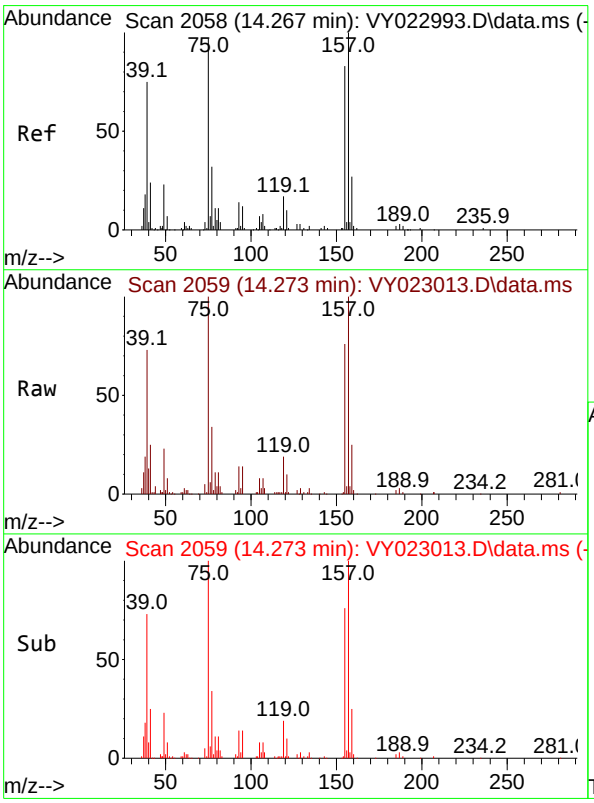
Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	62.4	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

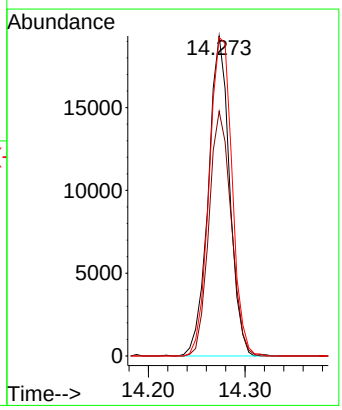
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

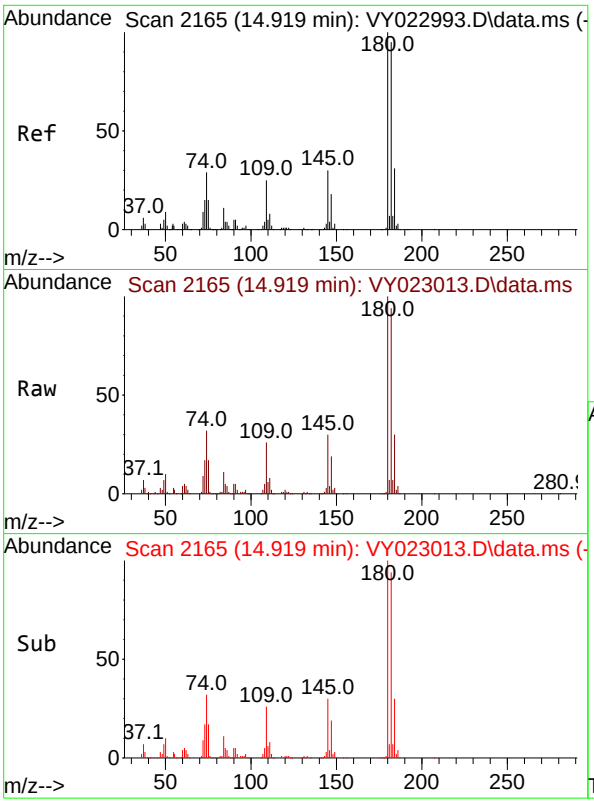


#92
1,2-Dibromo-3-Chloropropane
Concen: 58.609 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 29548

Ion	Ratio	Lower	Upper
75	100		
155	79.3	42.8	128.3
157	106.9	54.3	162.9

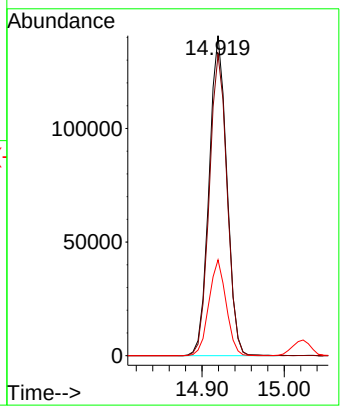




#93
1,2,4-Trichlorobenzene
Concen: 46.196 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:180 Resp: 21094

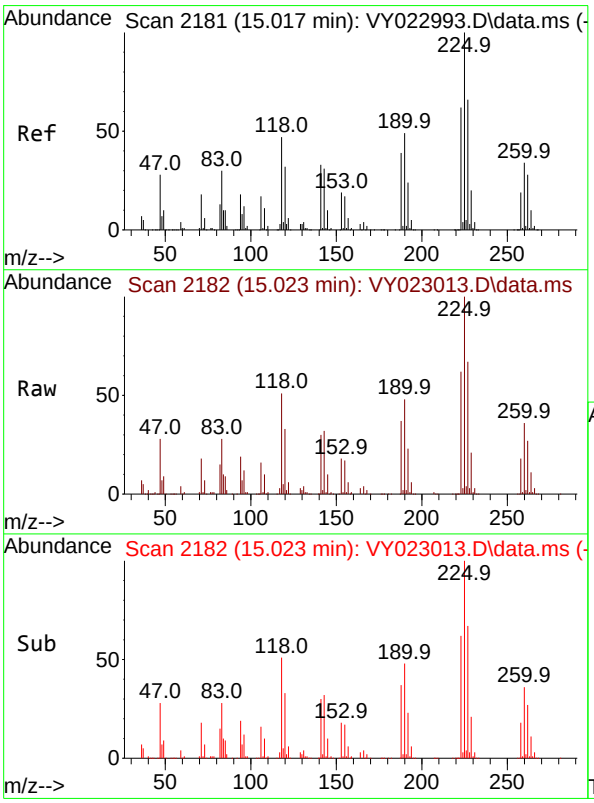
Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.5	142.5
145	29.1	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

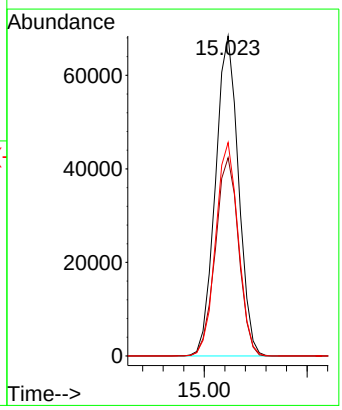
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

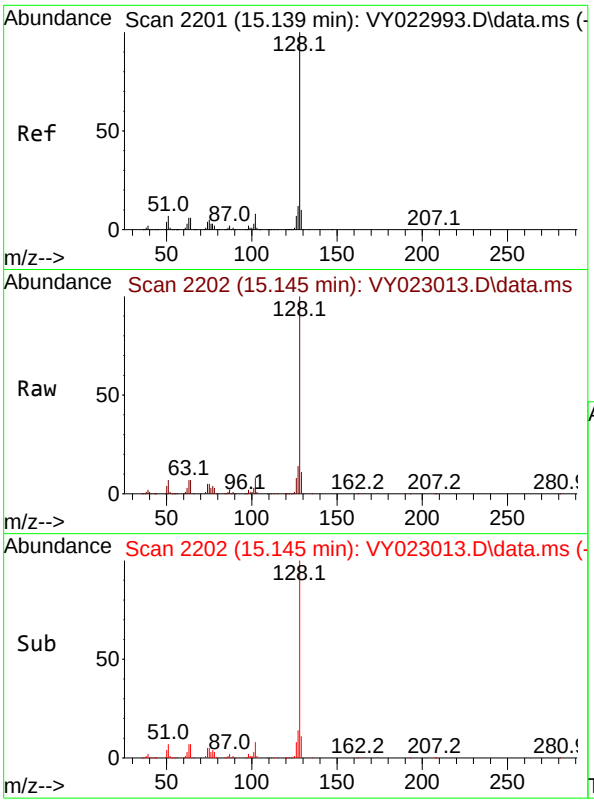


#94
Hexachlorobutadiene
Concen: 36.947 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:225 Resp: 106361

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.4	94.0
227	65.4	32.1	96.5

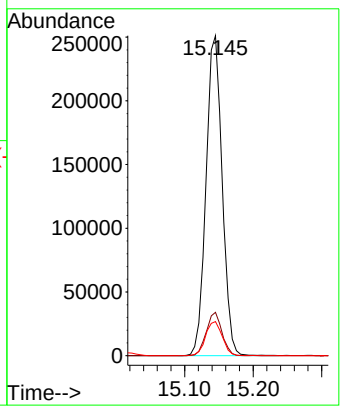




#95
Naphthalene
Concen: 56.191 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:128 Resp: 41152

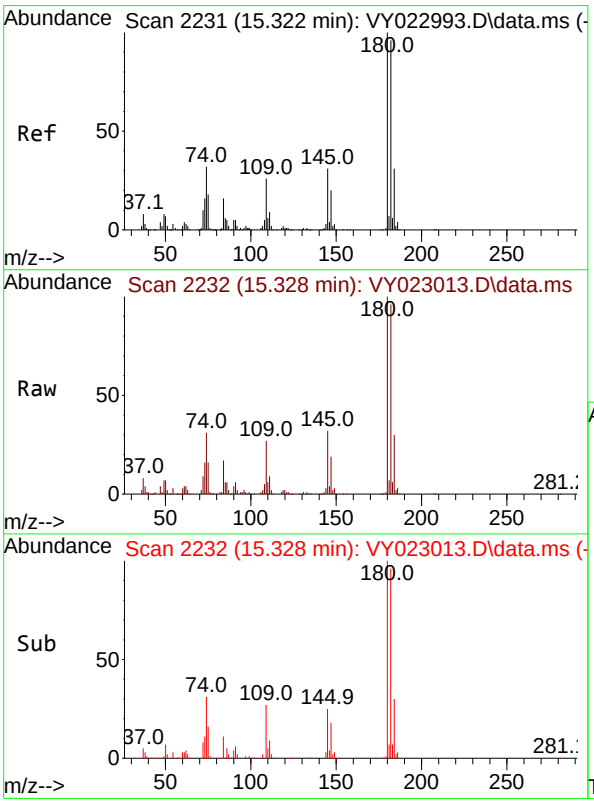
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	11.0	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

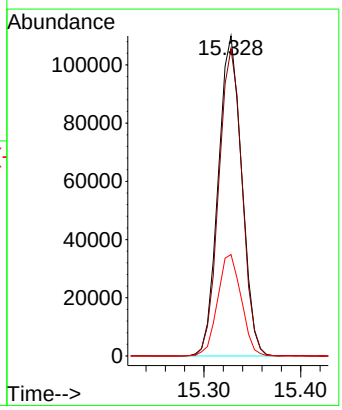
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.139 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:180 Resp: 185268

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	32.0	15.8	47.4



Sample Results: **VY023013.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	75	0.00
2	T	Dichlorodifluoromethane	0.425	0.373	12.2	76	0.00
3	P	Chloromethane	0.722	0.855	-18.4	104	0.00
4	C	Vinyl Chloride	0.915	1.043	-14.0#	95	0.00
5	T	Bromomethane	0.660	0.825	-25.0	112	0.00
6	T	Chloroethane	0.611	0.741	-21.3	100	0.00
7	T	Trichlorofluoromethane	1.062	1.154	-8.7	89	0.00
8	T	Diethyl Ether	0.278	0.295	-6.1	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.558	0.528	5.4	79	0.00
10	T	Methyl Iodide	0.579	0.574	0.9	76	0.00
11	T	Tert butyl alcohol	0.031	0.038	-22.6	97	0.02
12	CM	1,1-Dichloroethene	0.531	0.499	6.0#	79	0.00
13	T	Acrolein	0.014	0.009	35.7#	92	0.00
14	T	Allyl chloride	0.809	0.810	-0.1	82	0.00
15	T	Acrylonitrile	0.105	0.131	-24.8	101	0.00
16	T	Acetone	0.092	0.096	-4.3	93	0.01
17	T	Carbon Disulfide	1.610	1.537	4.5	80	0.00
18	T	Methyl Acetate	0.311	0.456	-46.6#	106	0.00
19	T	Methyl tert-butyl Ether	1.274	1.467	-15.1	93	0.00
20	T	Methylene Chloride	0.871	0.702	19.4	87	0.00
21	T	trans-1,2-Dichloroethene	0.591	0.581	1.7	82	0.00
22	T	Diisopropyl ether	1.717	1.901	-10.7	90	0.00
23	T	Vinyl Acetate	0.865	1.005	-16.2	94	0.00
24	P	1,1-Dichloroethane	1.079	1.114	-3.2	85	0.00
25	T	2-Butanone	0.132	0.164	-24.2	100	0.00
26	T	2,2-Dichloropropane	0.945	0.836	11.5	73	0.00
27	T	cis-1,2-Dichloroethene	0.682	0.694	-1.8	83	0.00
28	T	Bromochloromethane	0.418	0.471	-12.7	89	0.00
29	T	Tetrahydrofuran	0.083	0.111	-33.7#	103	0.00
30	C	Chloroform	1.088	1.144	-5.1#	87	0.00
31	T	Cyclohexane	1.008	0.937	7.0	80	0.00
32	T	1,1,1-Trichloroethane	0.987	0.972	1.5	81	0.00
33	S	1,2-Dichloroethane-d4	0.506	0.604	-19.4	96	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
35	S	Dibromofluoromethane	0.317	0.334	-5.4	88	0.00
36	T	1,1-Dichloropropene	0.500	0.481	3.8	81	0.00
37	T	Ethyl Acetate	0.186	0.221	-18.8	99	0.00
38	T	Carbon Tetrachloride	0.543	0.506	6.8	79	0.00
39	T	Methylcyclohexane	0.647	0.599	7.4	78	0.00
40	TM	Benzene	1.504	1.533	-1.9	86	0.00
41	T	Methacrylonitrile	0.101	0.127	-25.7#	101	0.00
42	TM	1,2-Dichloroethane	0.374	0.421	-12.6	93	0.00
43	T	Isopropyl Acetate	0.369	0.461	-24.9	100	0.00
44	TM	Trichloroethene	0.386	0.373	3.4	81	0.00
45	C	1,2-Dichloropropane	0.351	0.362	-3.1#	88	0.00
46	T	Dibromomethane	0.182	0.202	-11.0	92	0.00
47	T	Bromodichloromethane	0.502	0.528	-5.2	89	0.00
48	T	Methyl methacrylate	0.178	0.221	-24.2	97	0.00

Sample Results: **VY023013.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	104	0.01
50	S	Toluene-d8	1.258	1.289	-2.5	85	0.00
51	T	4-Methyl-2-Pentanone	0.187	0.249	-33.2#	103	0.00
52	CM	Toluene	0.935	0.953	-1.9#	85	0.00
53	T	t-1,3-Dichloropropene	0.431	0.465	-7.9	89	0.00
54	T	cis-1,3-Dichloropropene	0.519	0.536	-3.3	86	0.00
55	T	1,1,2-Trichloroethane	0.239	0.272	-13.8	95	0.00
56	T	Ethyl methacrylate	0.298	0.367	-23.2	97	0.00
57	T	1,3-Dichloropropane	0.412	0.471	-14.3	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.185	-26.7#	94	0.00
59	T	2-Hexanone	0.123	0.163	-32.5#	102	0.00
60	T	Dibromochloromethane	0.312	0.352	-12.8	92	0.00
61	T	1,2-Dibromoethane	0.217	0.253	-16.6	96	0.00
62	S	4-Bromofluorobenzene	0.396	0.418	-5.6	90	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64	T	Tetrachloroethene	0.511	0.488	4.5	79	0.00
65	PM	Chlorobenzene	1.180	1.137	3.6	85	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.396	1.5	88	0.00
67	C	Ethyl Benzene	2.091	2.011	3.8#	84	0.00
68	T	m/p-Xylenes	0.802	0.770	4.0	83	0.00
69	T	o-Xylene	0.744	0.725	2.6	85	0.00
70	T	Styrene	1.219	1.247	-2.3	88	0.00
71	P	Bromoform	0.204	0.223	-9.3	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
73	T	Isopropylbenzene	4.239	3.692	12.9	81	0.00
74	T	N-amyl acetate	0.799	0.890	-11.4	100	0.00
75	P	1,1,2,2-Tetrachloroethane	0.613	0.642	-4.7	102	0.00
76	T	1,2,3-Trichloropropane	0.623	0.602	3.4	90	0.00
77	T	Bromobenzene	0.919	0.852	7.3	87	0.00
78	T	n-propylbenzene	5.048	4.398	12.9	80	0.00
79	T	2-Chlorotoluene	2.839	2.531	10.8	84	0.00
80	T	1,3,5-Trimethylbenzene	3.343	2.992	10.5	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.209	0.209	0.0	93	0.00
82	T	4-Chlorotoluene	2.864	2.624	8.4	85	0.00
83	T	tert-Butylbenzene	3.020	2.640	12.6	80	0.00
84	T	1,2,4-Trimethylbenzene	3.291	3.002	8.8	84	0.00
85	T	sec-Butylbenzene	4.526	3.873	14.4	79	0.00
86	T	p-Isopropyltoluene	3.676	3.177	13.6	79	0.00
87	T	1,3-Dichlorobenzene	1.855	1.691	8.8	86	0.00
88	T	1,4-Dichlorobenzene	1.795	1.636	8.9	86	0.00
89	T	n-Butylbenzene	3.392	2.844	16.2	77	0.00
90	T	Hexachloroethane	0.761	0.657	13.7	82	0.00
91	T	1,2-Dichlorobenzene	1.565	1.494	4.5	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.091	0.107	-17.6	106	0.00
93	T	1,2,4-Trichlorobenzene	0.825	0.762	7.6	85	0.00
94	T	Hexachlorobutadiene	0.520	0.384	26.2#	72	0.00
95	T	Naphthalene	1.323	1.487	-12.4	96	0.00

Sample Results: **VY023013.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	0.681	0.669	1.8	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023013.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	75	0.00
2	T	Dichlorodifluoromethane	50.000	43.876	12.2	76	0.00
3	P	Chloromethane	50.000	59.231	-18.5	104	0.00
4	C	Vinyl Chloride	50.000	57.002	-14.0#	95	0.00
5	T	Bromomethane	50.000	62.514	-25.0#	112	0.00
6	T	Chloroethane	50.000	60.674	-21.3	100	0.00
7	T	Trichlorofluoromethane	50.000	54.329	-8.7	89	0.00
8	T	Diethyl Ether	50.000	53.057	-6.1	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.321	5.4	79	0.00
10	T	Methyl Iodide	50.000	49.563	0.9	76	0.00
11	T	Tert butyl alcohol	250.000	307.901	-23.2	97	0.02
12	CM	1,1-Dichloroethene	50.000	46.929	6.1#	79	0.00
13	T	Acrolein	250.000	156.327	37.5#	92	0.00
14	T	Allyl chloride	50.000	50.025	-0.0	82	0.00
15	T	Acrylonitrile	250.000	312.136	-24.9	101	0.00
16	T	Acetone	250.000	261.129	-4.5	93	0.01
17	T	Carbon Disulfide	50.000	47.733	4.5	80	0.00
18	T	Methyl Acetate	50.000	73.334	-46.7#	106	0.00
19	T	Methyl tert-butyl Ether	50.000	57.557	-15.1	93	0.00
20	T	Methylene Chloride	50.000	55.283	-10.6	87	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.098	1.8	82	0.00
22	T	Diisopropyl ether	50.000	55.360	-10.7	90	0.00
23	T	Vinyl Acetate	250.000	290.523	-16.2	94	0.00
24	P	1,1-Dichloroethane	50.000	51.640	-3.3	85	0.00
25	T	2-Butanone	250.000	310.560	-24.2	100	0.00
26	T	2,2-Dichloropropane	50.000	44.197	11.6	73	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.944	-1.9	83	0.00
28	T	Bromochloromethane	50.000	56.337	-12.7	89	0.00
29	T	Tetrahydrofuran	250.000	332.560	-33.0#	103	0.00
30	C	Chloroform	50.000	52.587	-5.2#	87	0.00
31	T	Cyclohexane	50.000	46.489	7.0	80	0.00
32	T	1,1,1-Trichloroethane	50.000	49.245	1.5	81	0.00
33	S	1,2-Dichloroethane-d4	50.000	59.671	-19.3	96	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	79	0.00
35	S	Dibromofluoromethane	50.000	52.613	-5.2	88	0.00
36	T	1,1-Dichloropropene	50.000	48.175	3.7	81	0.00
37	T	Ethyl Acetate	50.000	59.479	-19.0	99	0.00
38	T	Carbon Tetrachloride	50.000	46.638	6.7	79	0.00
39	T	Methylcyclohexane	50.000	46.332	7.3	78	0.00
40	TM	Benzene	50.000	50.962	-1.9	86	0.00
41	T	Methacrylonitrile	50.000	62.602	-25.2#	101	0.00
42	TM	1,2-Dichloroethane	50.000	56.192	-12.4	93	0.00
43	T	Isopropyl Acetate	50.000	62.492	-25.0	100	0.00
44	TM	Trichloroethene	50.000	48.241	3.5	81	0.00
45	C	1,2-Dichloropropane	50.000	51.456	-2.9#	88	0.00
46	T	Dibromomethane	50.000	55.711	-11.4	92	0.00
47	T	Bromodichloromethane	50.000	52.581	-5.2	89	0.00
48	T	Methyl methacrylate	50.000	61.977	-24.0	97	0.00

Sample Results: **VY023013.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	1302.771	-30.3#	104	0.01
50	S	Toluene-d8	50.000	51.260	-2.5	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	332.819	-33.1#	103	0.00
52	CM	Toluene	50.000	50.957	-1.9#	85	0.00
53	T	t-1,3-Dichloropropene	50.000	53.962	-7.9	89	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.650	-3.3	86	0.00
55	T	1,1,2-Trichloroethane	50.000	57.023	-14.0	95	0.00
56	T	Ethyl methacrylate	50.000	61.668	-23.3	97	0.00
57	T	1,3-Dichloropropane	50.000	57.137	-14.3	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	317.300	-26.9#	94	0.00
59	T	2-Hexanone	250.000	332.267	-32.9#	102	0.00
60	T	Dibromochloromethane	50.000	56.249	-12.5	92	0.00
61	T	1,2-Dibromoethane	50.000	58.364	-16.7	96	0.00
62	S	4-Bromofluorobenzene	50.000	52.830	-5.7	90	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64	T	Tetrachloroethene	50.000	47.704	4.6	79	0.00
65	PM	Chlorobenzene	50.000	48.192	3.6	85	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.218	1.6	88	0.00
67	C	Ethyl Benzene	50.000	48.092	3.8#	84	0.00
68	T	m/p-Xylenes	100.000	95.970	4.0	83	0.00
69	T	o-Xylene	50.000	48.691	2.6	85	0.00
70	T	Styrene	50.000	51.144	-2.3	88	0.00
71	P	Bromoform	50.000	54.515	-9.0	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	89	0.00
73	T	Isopropylbenzene	50.000	43.551	12.9	81	0.00
74	T	N-amyl acetate	50.000	55.697	-11.4	100	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.314	-4.6	102	0.00
76	T	1,2,3-Trichloropropane	50.000	48.340	3.3	90	0.00
77	T	Bromobenzene	50.000	46.319	7.4	87	0.00
78	T	n-propylbenzene	50.000	43.562	12.9	80	0.00
79	T	2-Chlorotoluene	50.000	44.577	10.8	84	0.00
80	T	1,3,5-Trimethylbenzene	50.000	44.746	10.5	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.960	0.1	93	0.00
82	T	4-Chlorotoluene	50.000	45.812	8.4	85	0.00
83	T	tert-Butylbenzene	50.000	43.702	12.6	80	0.00
84	T	1,2,4-Trimethylbenzene	50.000	45.601	8.8	84	0.00
85	T	sec-Butylbenzene	50.000	42.792	14.4	79	0.00
86	T	p-Isopropyltoluene	50.000	43.220	13.6	79	0.00
87	T	1,3-Dichlorobenzene	50.000	45.562	8.9	86	0.00
88	T	1,4-Dichlorobenzene	50.000	45.571	8.9	86	0.00
89	T	n-Butylbenzene	50.000	41.930	16.1	77	0.00
90	T	Hexachloroethane	50.000	43.138	13.7	82	0.00
91	T	1,2-Dichlorobenzene	50.000	47.745	4.5	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	58.609	-17.2	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.196	7.6	85	0.00
94	T	Hexachlorobutadiene	50.000	36.947	26.1#	72	0.00
95	T	Naphthalene	50.000	56.191	-12.4	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	49.139	1.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023015.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: NOBI03
Lab Code: ACE
SDG No.: Q2639
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/21/2025 10:08
Lab File ID: VY023015.D
Init. Calib. Date(s): 07/18/2025 07/18/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 10:08 12:49
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.425	0.351		-17.41	20
Chloromethane	0.722	0.755	0.1	4.57	20
Vinyl Chloride	0.915	0.869		-5.03	20
Bromomethane	0.660	0.651		-1.36	20
Chloroethane	0.611	0.596		-2.45	20
Tetrahydrofuran	0.083	0.092		10.84	20
Trichlorofluoromethane	1.062	1.013		-4.61	20
1,1,2-Trichlorotrifluoroethane	0.558	0.492		-11.83	20
1,1-Dichloroethene	0.531	0.469		-11.68	20
Acrylonitrile	0.105	0.113		7.62	20
Acetone	0.092	0.106		15.22	20
Carbon Disulfide	1.610	1.413		-12.24	20
Methyl tert-butyl Ether	1.274	1.265		-0.71	20
Methylene Chloride	0.871	0.586		-32.72	20
trans-1,2-Dichloroethene	0.591	0.535		-9.48	20
1,1-Dichloroethane	1.079	0.992	0.1	-8.06	20
2-Butanone	0.132	0.151		14.39	20
Carbon Tetrachloride	0.543	0.493		-9.21	20
2,2-Dichloropropane	0.945	0.880		-6.88	20
cis-1,2-Dichloroethene	0.682	0.624		-8.5	20
Chloroform	1.088	0.998		-8.27	20
1,1,1-Trichloroethane	0.987	0.890		-9.83	20
1,1-Dichloropropene	0.500	0.459		-8.2	20
Benzene	1.504	1.399		-6.98	20
1,2-Dichloroethane	0.374	0.375		0.27	20
Trichloroethene	0.386	0.359		-6.99	20
1,2-Dichloropropane	0.351	0.331		-5.7	20
Dibromomethane	0.182	0.181		-0.55	20
Bromodichloromethane	0.502	0.480		-4.38	20
4-Methyl-2-Pentanone	0.187	0.216		15.51	20
Toluene	0.935	0.884		-5.45	20
t-1,3-Dichloropropene	0.431	0.440		2.09	20
cis-1,3-Dichloropropene	0.519	0.504		-2.89	20
1,1,2-Trichloroethane	0.239	0.238		-0.42	20
1,3-Dichloropropane	0.412	0.416		0.97	20
2-Hexanone	0.123	0.147		19.51	20
Dibromochloromethane	0.312	0.312		0	20
1,2-Dibromoethane	0.217	0.223		2.77	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023015.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: NOBI03
Lab Code: ACE
SDG No.: Q2639
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/21/2025 10:08
Lab File ID: VY023015.D
Init. Calib. Date(s): 07/18/2025 07/18/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 10:08 12:49
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Tetrachloroethene	0.511	0.480		-6.07	20
Chlorobenzene	1.180	1.093	0.3	-7.37	20
1,1,1,2-Tetrachloroethane	0.402	0.364		-9.45	20
Ethyl Benzene	2.091	1.947		-6.89	20
m/p-Xylenes	0.802	0.748		-6.73	20
o-Xylene	0.744	0.704		-5.38	20
Styrene	1.219	1.166		-4.35	20
Bromoform	0.204	0.207	0.1	1.47	20
Isopropylbenzene	4.239	3.753		-11.47	20
1,1,2,2-Tetrachloroethane	0.613	0.586	0.3	-4.41	20
1,2,3-Trichloropropane	0.623	0.561		-9.95	20
Bromobenzene	0.919	0.833		-9.36	20
n-propylbenzene	5.048	4.614		-8.6	20
2-Chlorotoluene	2.839	2.548		-10.25	20
1,3,5-Trimethylbenzene	3.343	3.049		-8.79	20
4-Chlorotoluene	2.864	2.656		-7.26	20
tert-Butylbenzene	3.020	2.737		-9.37	20
1,2,4-Trimethylbenzene	3.291	3.052		-7.26	20
sec-Butylbenzene	4.526	4.135		-8.64	20
p-Isopropyltoluene	3.676	3.403		-7.43	20
1,3-Dichlorobenzene	1.855	1.689		-8.95	20
1,4-Dichlorobenzene	1.795	1.630		-9.19	20
n-Butylbenzene	3.392	3.201		-5.63	20
1,2-Dichlorobenzene	1.565	1.458		-6.84	20
1,2-Dibromo-3-Chloropropane	0.091	0.100		9.89	20
1,2,4-Trichlorobenzene	0.825	0.820		-0.61	20
Hexachlorobutadiene	0.520	0.473		-9.04	20
1,2,3-Trichlorobenzene	0.681	0.699		2.64	20
1,2-Dichloroethane-d4	0.506	0.497		-1.78	20
Dibromofluoromethane	0.317	0.294		-7.26	20
Toluene-d8	1.258	1.168		-7.15	20
4-Bromofluorobenzene	0.396	0.374		-5.56	20
trans-1,4-Dichloro-2-butene	0.209	0.209		0	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	466550	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	745278	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	646276	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	315391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	231681	49.053	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.100%		
35) Dibromofluoromethane	7.634	113	218952	46.314	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	92.620%		
50) Toluene-d8	10.103	98	870592	46.437	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.880%		
62) 4-Bromofluorobenzene	12.401	95	278747	47.233	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	94.460%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	163705	41.324	ug/l	99
3) Chloromethane	2.068	50	352290	52.299	ug/l	100
4) Vinyl Chloride	2.202	62	405558	47.523	ug/l	100
5) Bromomethane	2.592	94	303773	49.321	ug/l	99
6) Chloroethane	2.732	64	278231	48.816	ug/l	98
7) Trichlorofluoromethane	3.049	101	472524	47.699	ug/l	100
8) Diethyl Ether	3.452	74	118699	45.781	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.811	101	229719	44.142	ug/l	99
10) Methyl Iodide	4.000	142	228734	42.309	ug/l	98
11) Tert butyl alcohol	4.891	59	78484	274.768	ug/l	99
12) 1,1-Dichloroethene	3.787	96	218813	44.137	ug/l	99
13) Acrolein	3.653	56	16336	121.709	ug/l	98
14) Allyl chloride	4.385	41	349805	46.315	ug/l	99
15) Acrylonitrile	5.055	53	264216	269.039	ug/l	99
16) Acetone	3.879	43	246194	287.564	ug/l	100
17) Carbon Disulfide	4.104	76	659160	43.871	ug/l	99
18) Methyl Acetate	4.385	43	164914	56.897	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	590328	49.645	ug/l	98
20) Methylene Chloride	4.610	84	273604	44.522	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	249633	45.236	ug/l	99
22) Diisopropyl ether	6.018	45	773708	48.287	ug/l	99
23) Vinyl Acetate	5.957	43	2112837	261.701	ug/l	99
24) 1,1-Dichloroethane	5.915	63	462627	45.968	ug/l	99
25) 2-Butanone	6.896	43	351847	286.473	ug/l	100
26) 2,2-Dichloropropane	6.884	77	410339	46.522	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	290970	45.750	ug/l	98
28) Bromochloromethane	7.244	49	192517	49.320	ug/l	98
29) Tetrahydrofuran	7.268	42	214487	275.830	ug/l	99
30) Chloroform	7.421	83	465833	45.883	ug/l	100
31) Cyclohexane	7.701	56	407632	43.348	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	415153	45.068	ug/l	99
36) 1,1-Dichloropropene	7.835	75	342303	45.967	ug/l	100
37) Ethyl Acetate	6.982	43	145321	52.544	ug/l	99
38) Carbon Tetrachloride	7.817	117	367135	45.380	ug/l	98
39) Methylcyclohexane	9.109	83	438429	45.487	ug/l	98
40) Benzene	8.079	78	1042640	46.502	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	88958	59.045	ug/l		92
42) 1,2-Dichloroethane	8.158	62	279220	50.055	ug/l		100
43) Isopropyl Acetate	8.195	43	300111	54.629	ug/l	#	87
44) Trichloroethene	8.865	130	267268	46.410	ug/l		100
45) 1,2-Dichloropropane	9.140	63	246776	47.131	ug/l		100
46) Dibromomethane	9.231	93	134753	49.790	ug/l		99
47) Bromodichloromethane	9.420	83	358051	47.861	ug/l		100
48) Methyl methacrylate	9.219	41	147249	55.518	ug/l		100
49) 1,4-Dioxane	9.237	88	32221	1129.451	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	804002	288.338	ug/l		100
52) Toluene	10.170	92	659183	47.287	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	328119	51.095	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	375614	48.527	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	177418	49.876	ug/l		99
56) Ethyl methacrylate	10.438	69	241078	54.291	ug/l		99
57) 1,3-Dichloropropane	10.719	76	310300	50.497	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	598615	275.393	ug/l		99
59) 2-Hexanone	10.761	43	547928	298.947	ug/l		99
60) Dibromochloromethane	10.908	129	232680	49.953	ug/l		99
61) 1,2-Dibromoethane	11.011	107	166085	51.415	ug/l		100
64) Tetrachloroethene	10.646	164	310183	46.956	ug/l		97
65) Chlorobenzene	11.438	112	706161	46.305	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	235455	45.267	ug/l		100
67) Ethyl Benzene	11.517	91	1258041	46.541	ug/l		99
68) m/p-Xylenes	11.627	106	966289	93.198	ug/l		100
69) o-Xylene	11.956	106	454809	47.267	ug/l		98
70) Styrene	11.969	104	753693	47.820	ug/l		100
71) Bromoform	12.133	173	134080	50.776	ug/l		98
73) Isopropylbenzene	12.255	105	1183789	44.271	ug/l		100
74) N-amyl acetate	12.072	43	269180	53.395	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	184767	47.749	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	177017m	45.042	ug/l		
77) Bromobenzene	12.529	156	262574	45.276	ug/l		98
78) n-propylbenzene	12.597	91	1455137	45.698	ug/l		100
79) 2-Chlorotoluene	12.676	91	803482	44.865	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	961475	45.590	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	65951	49.983	ug/l		99
82) 4-Chlorotoluene	12.773	91	837576	46.371	ug/l		100
83) tert-Butylbenzene	12.993	119	863185	45.312	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	962658	46.371	ug/l		100
85) sec-Butylbenzene	13.176	105	1304191	45.684	ug/l		100
86) p-Isopropyltoluene	13.291	119	1073149	46.286	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	532686	45.514	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	513938	45.391	ug/l		100
89) n-Butylbenzene	13.615	91	1009588	47.189	ug/l		100
90) Hexachloroethane	13.877	117	213851	44.550	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	459820	46.577	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	31393	54.638	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	258596	49.693	ug/l		99
94) Hexachlorobutadiene	15.023	225	149247	45.491	ug/l		100
95) Naphthalene	15.145	128	470535	56.375	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	220477	51.312	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

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

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

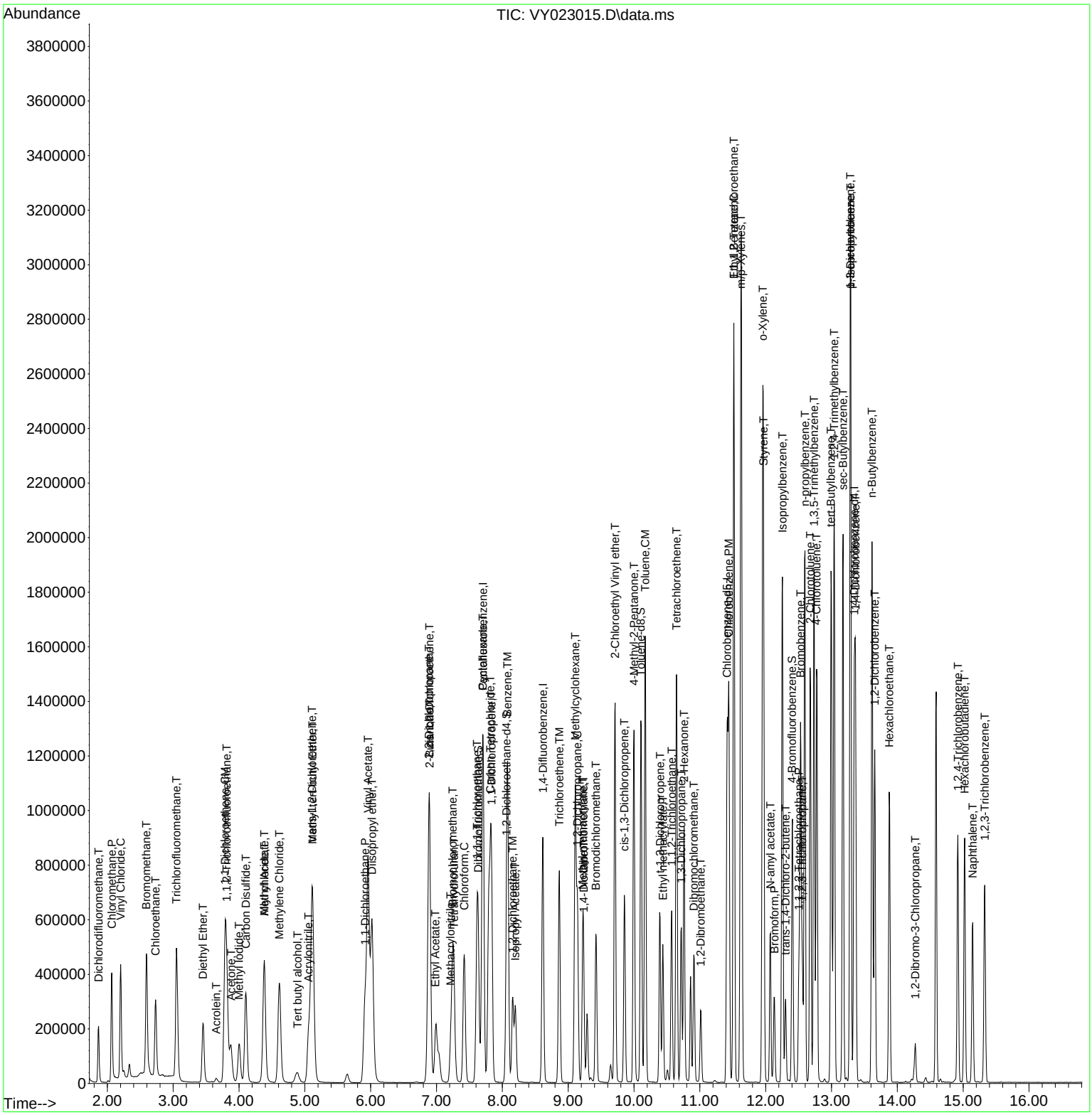
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

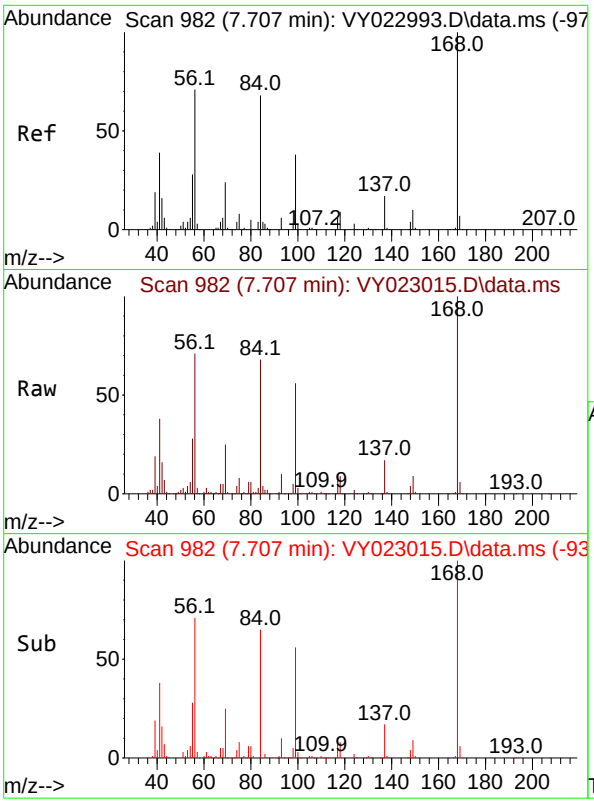
Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

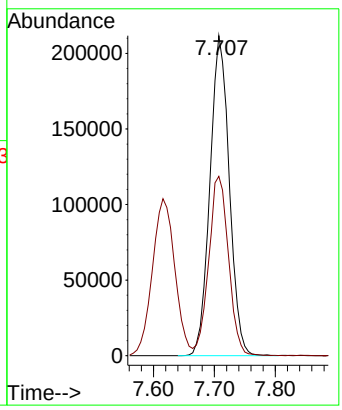




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:168 Resp: 46655

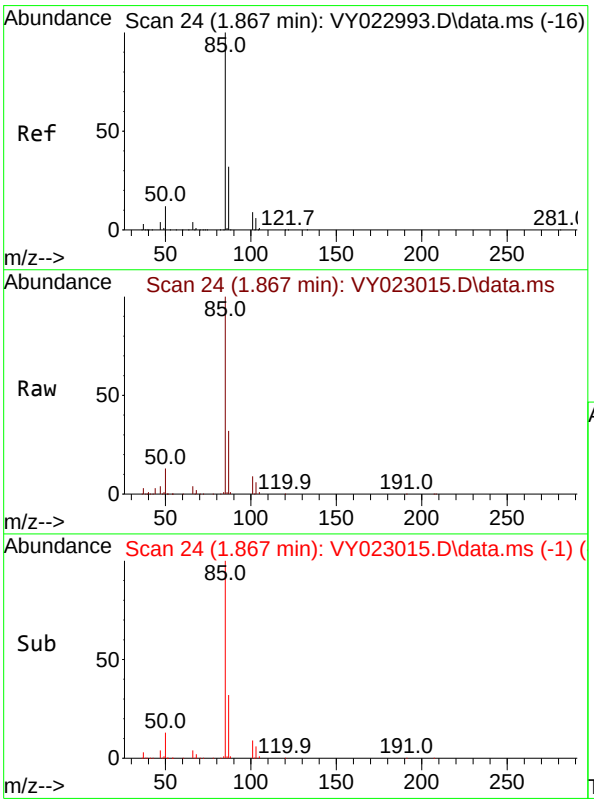
Ion	Ratio	Lower	Upper
168	100		
99	56.0	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

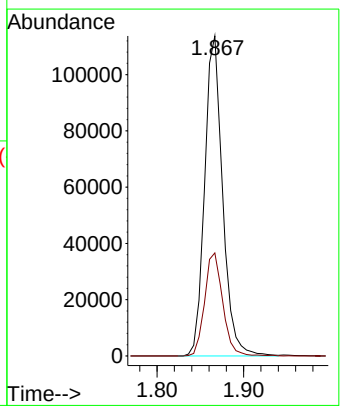
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

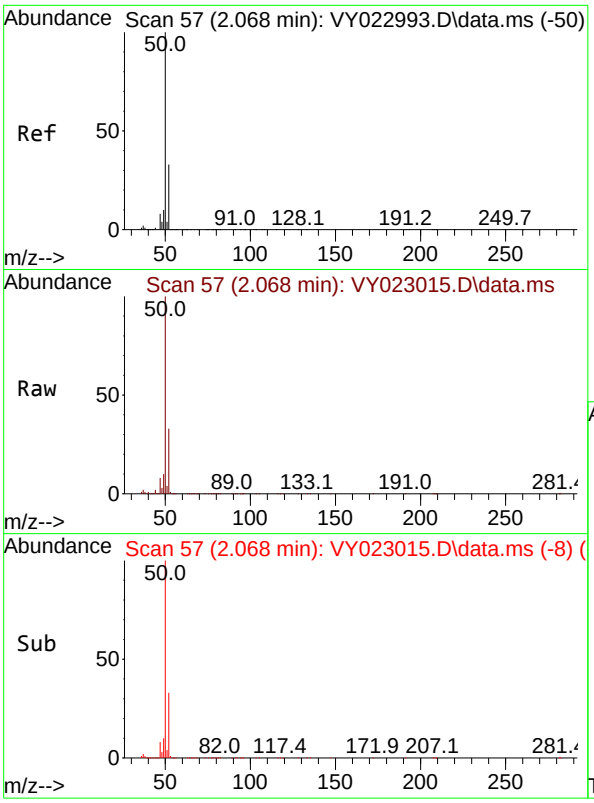


#2
Dichlorodifluoromethane
Concen: 41.324 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 85 Resp: 163705

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.0	47.9





#3
Chloromethane
Concen: 52.299 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

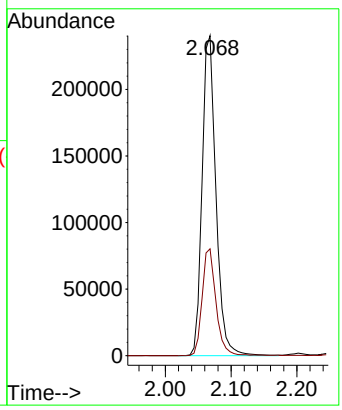
Tgt Ion: 50 Resp: 35229

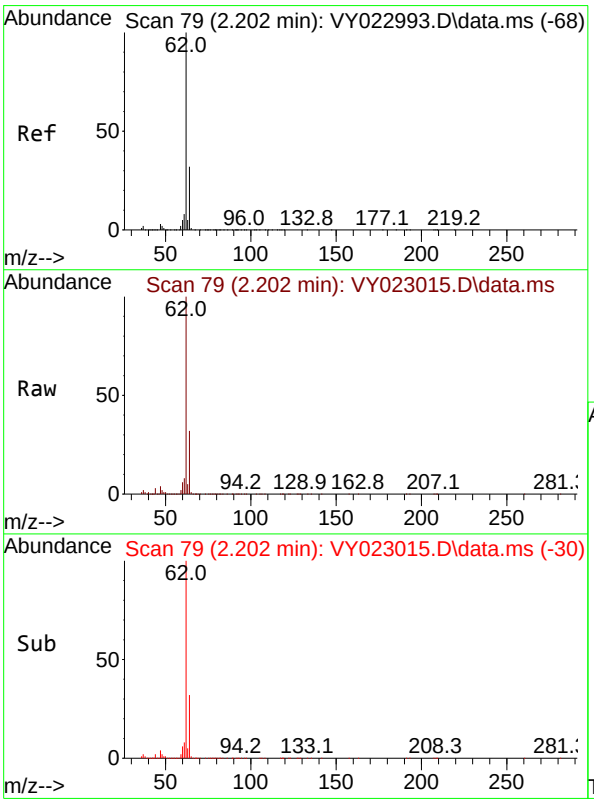
Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

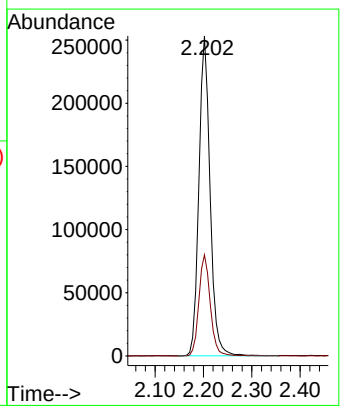


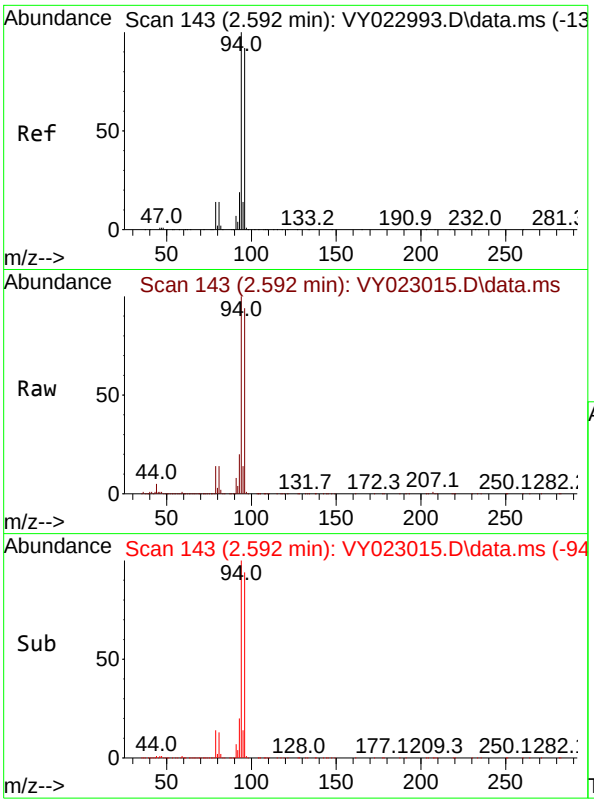


#4
Vinyl Chloride
Concen: 47.523 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 405558

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.2	37.8





#5
Bromomethane
Concen: 49.321 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

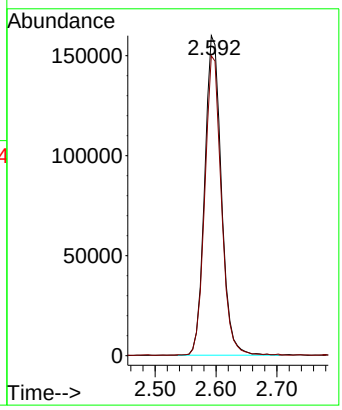
Tgt Ion: 94 Resp: 30377

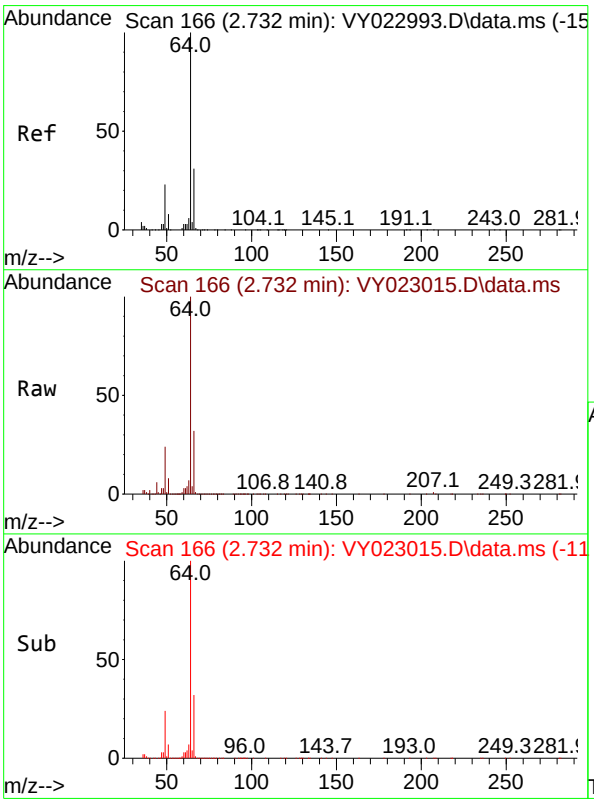
Ion	Ratio	Lower	Upper
94	100		
96	93.6	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

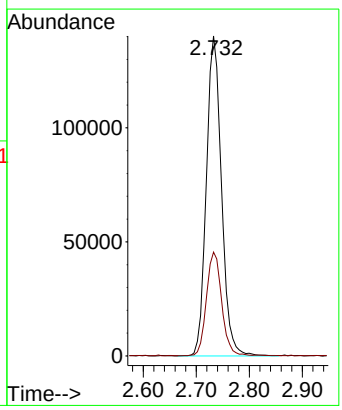


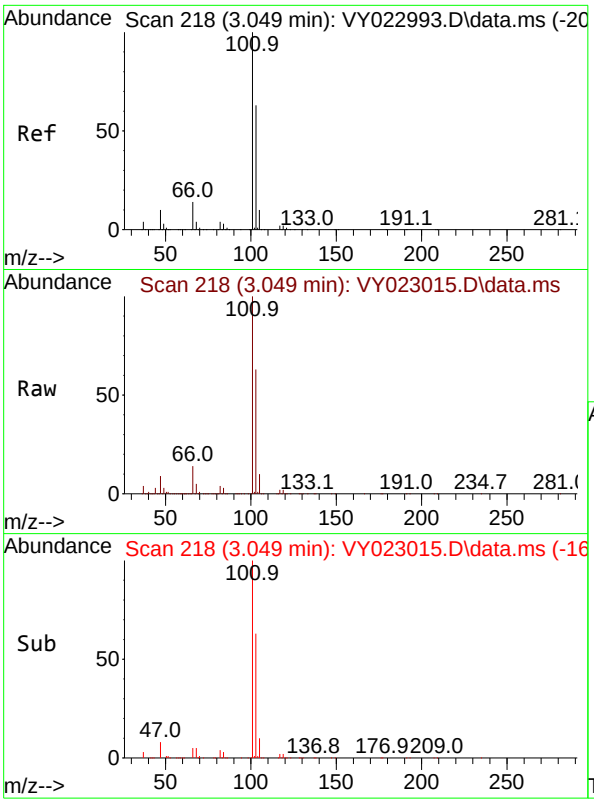


#6
Chloroethane
Concen: 48.816 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 64 Resp: 278231

Ion	Ratio	Lower	Upper
64	100		
66	32.3	24.9	37.3

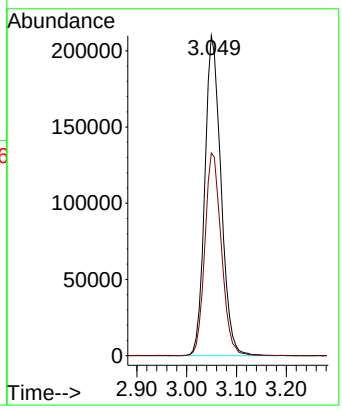




#7
Trichlorofluoromethane
Concen: 47.699 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:101 Resp: 47252

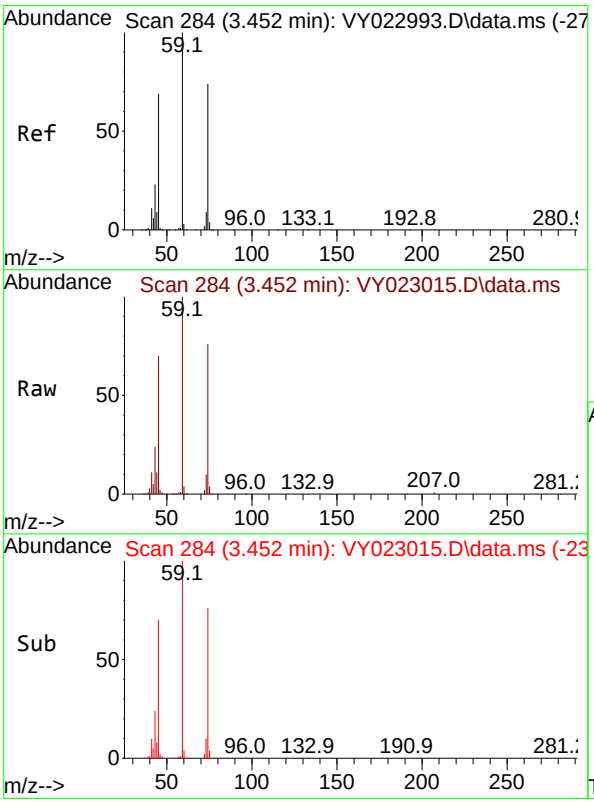
Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

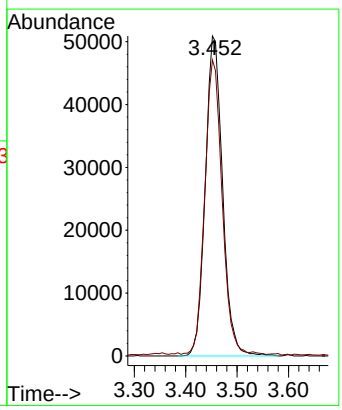
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

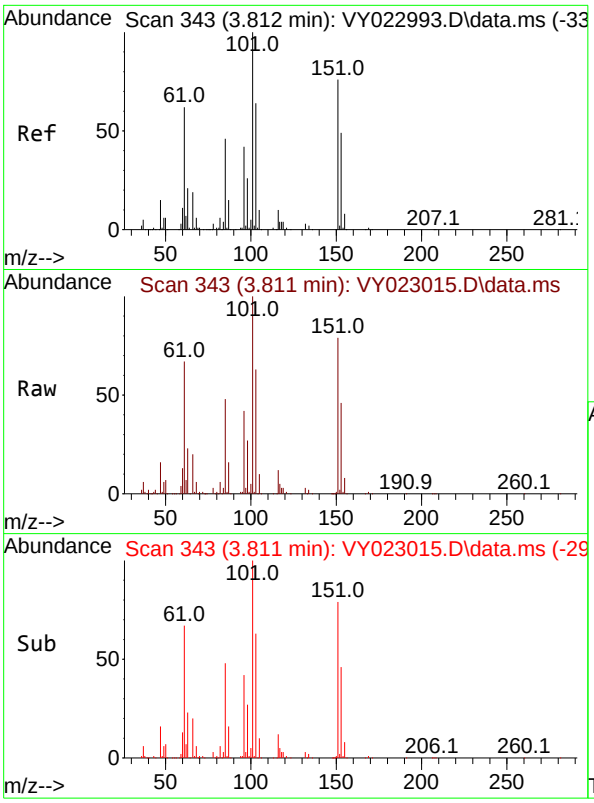


#8
Diethyl Ether
Concen: 45.781 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 74 Resp: 118699

Ion	Ratio	Lower	Upper
74	100		
45	92.5	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.142 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

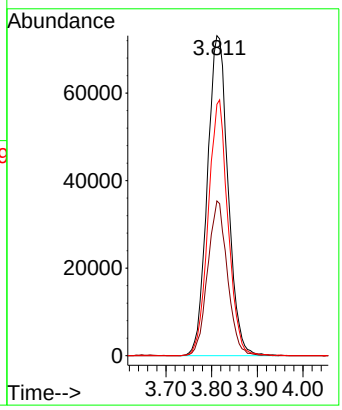
Tgt Ion:101 Resp: 22971

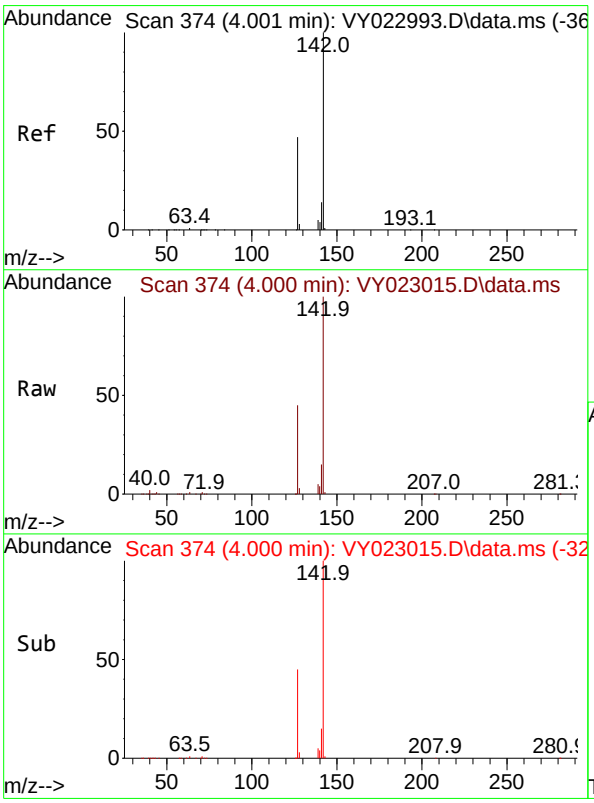
Ion	Ratio	Lower	Upper
101	100		
85	46.2	37.2	55.8
151	76.3	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

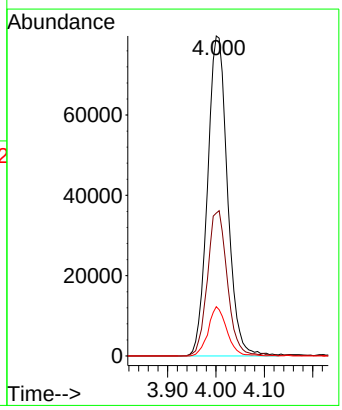


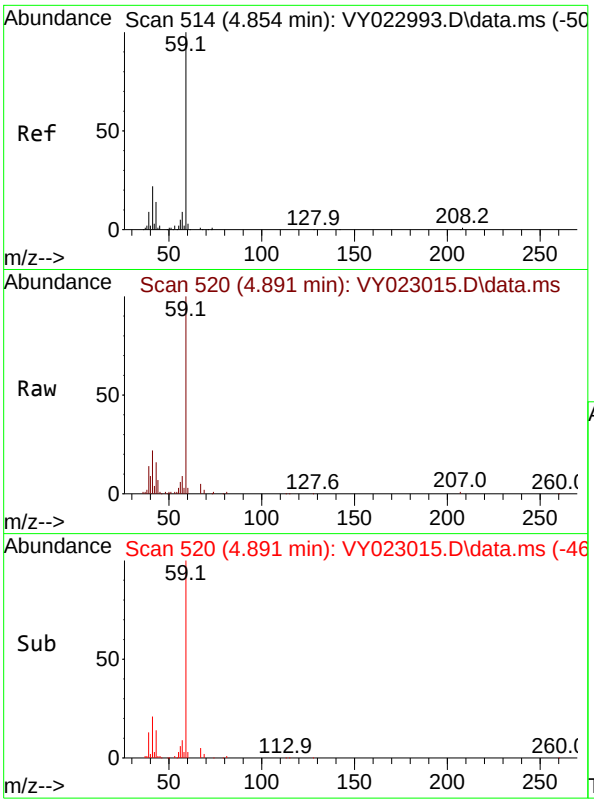


#10
Methyl Iodide
Concen: 42.309 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:142 Resp: 228734

Ion	Ratio	Lower	Upper
142	100		
127	45.0	37.0	55.6
141	14.4	11.4	17.2

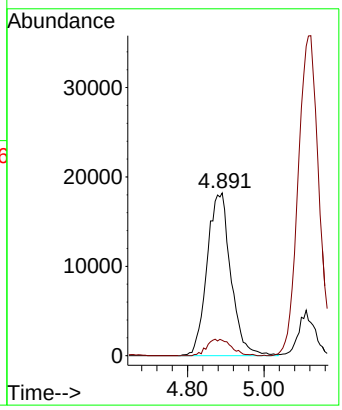




#11
Tert butyl alcohol
Concen: 274.768 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.037 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 59 Resp: 7848

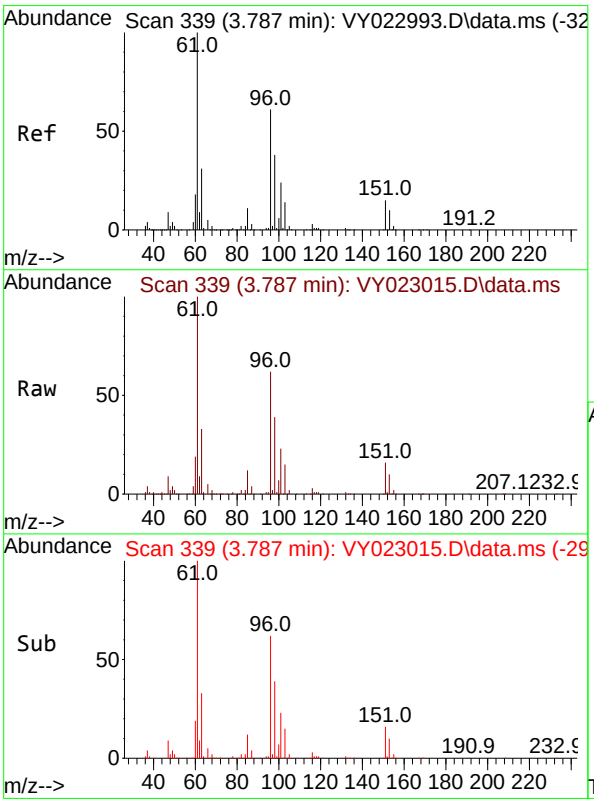
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

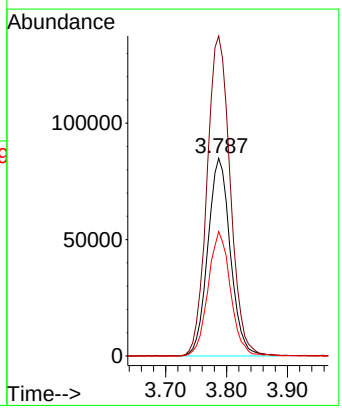
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

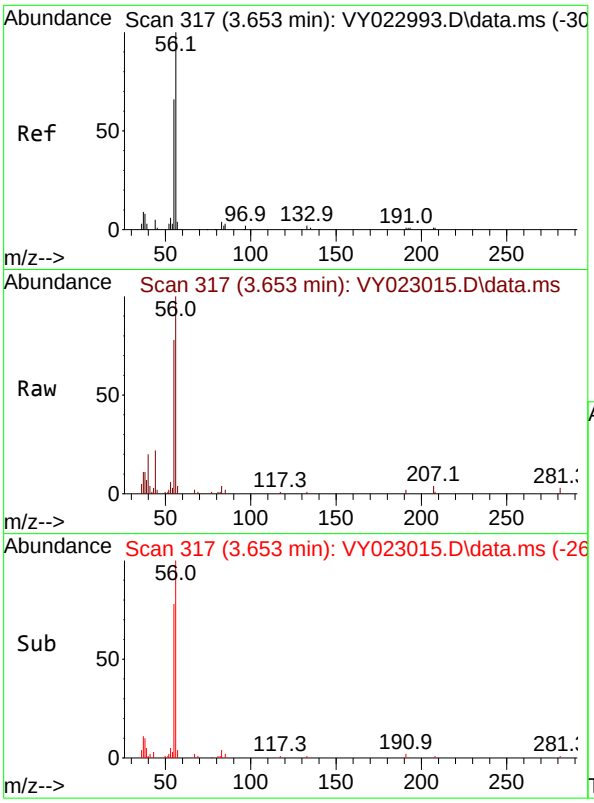


#12
1,1-Dichloroethene
Concen: 44.137 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 218813

Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.4	195.6
98	62.9	49.6	74.4





#13
Acrolein
Concen: 121.709 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

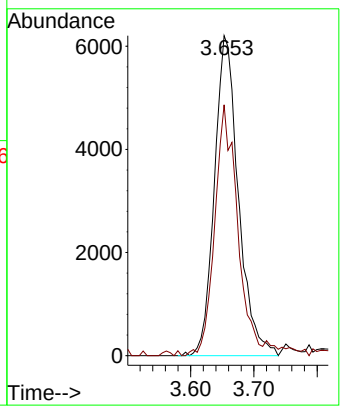
Tgt Ion: 56 Resp: 1633

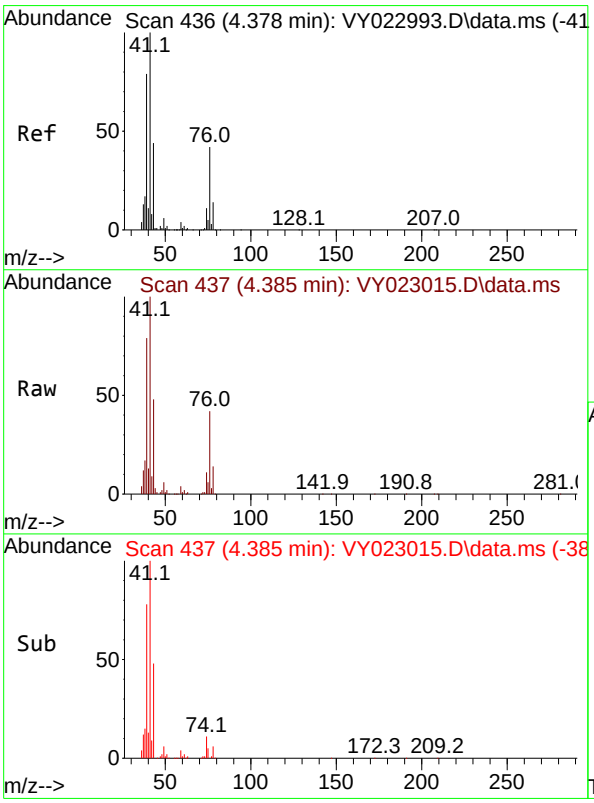
Ion	Ratio	Lower	Upper
56	100		
55	73.7	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

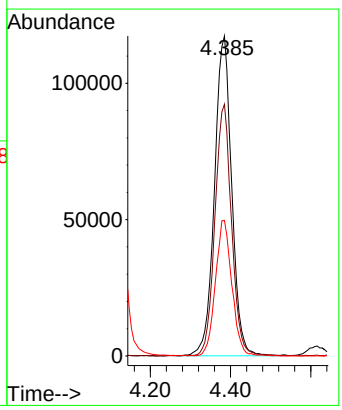


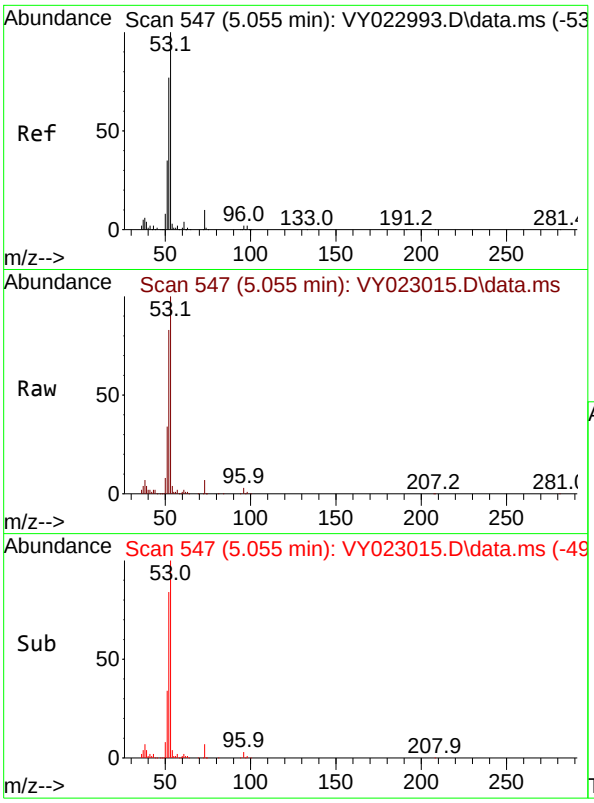


#14
Allyl chloride
Concen: 46.315 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 349805

Ion	Ratio	Lower	Upper
41	100		
39	76.0	60.1	90.1
76	40.7	32.2	48.4





#15
Acrylonitrile
Concen: 269.039 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

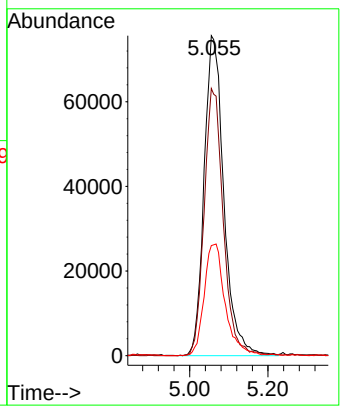
Tgt Ion: 53 Resp: 26421

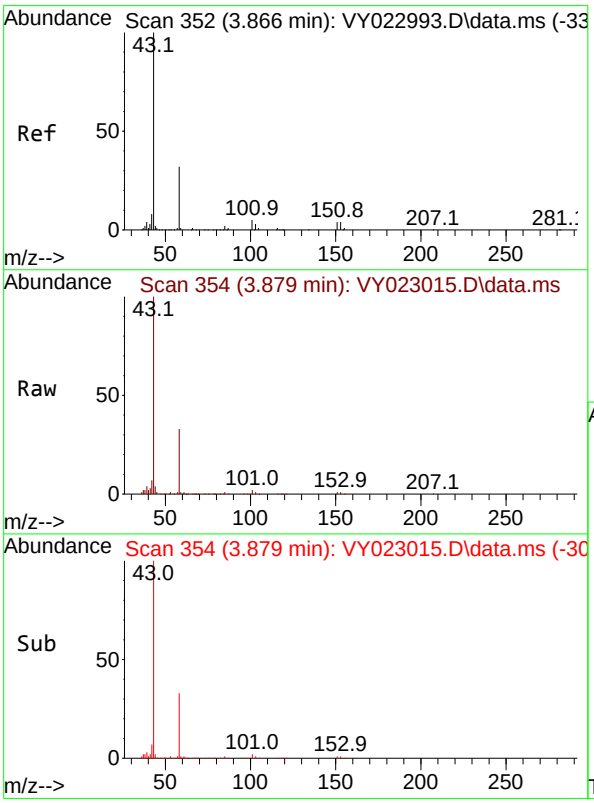
Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.2	97.8
51	37.3	30.3	45.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

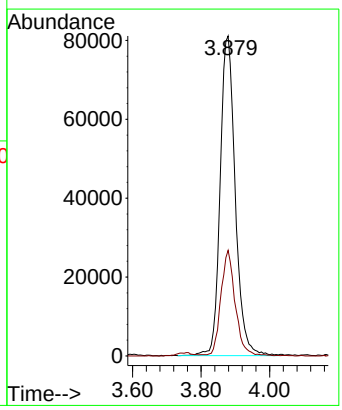


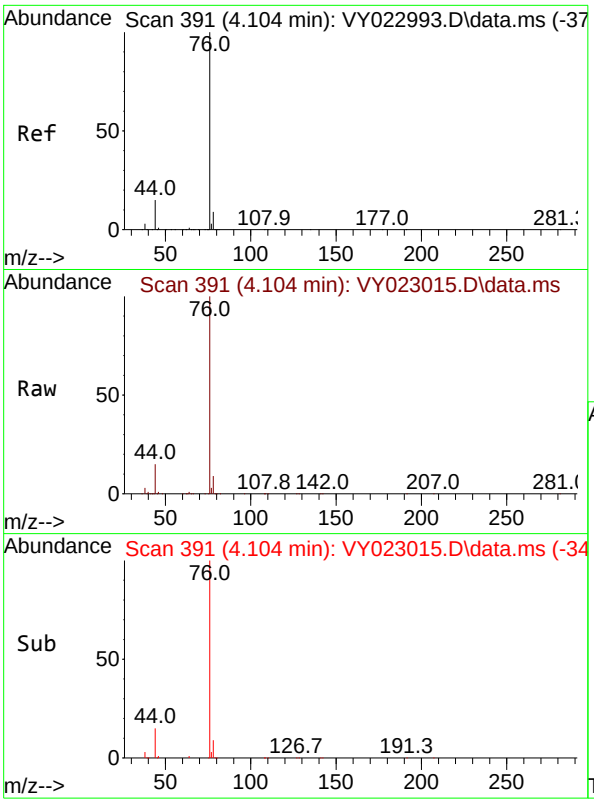


#16
Acetone
Concen: 287.564 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 246194

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.2	39.4

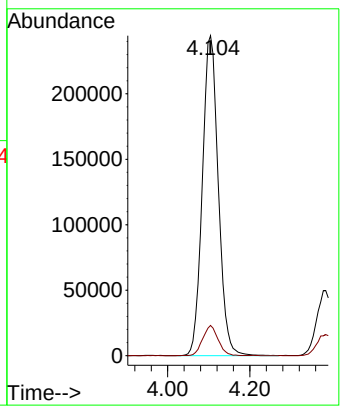




#17
Carbon Disulfide
Concen: 43.871 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 76 Resp: 65916

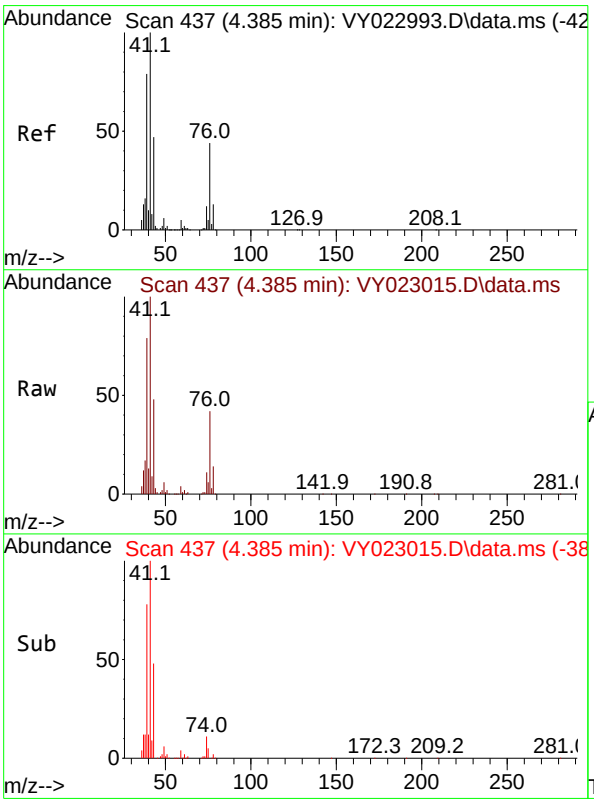
Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

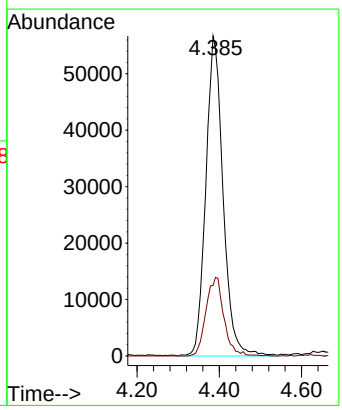
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

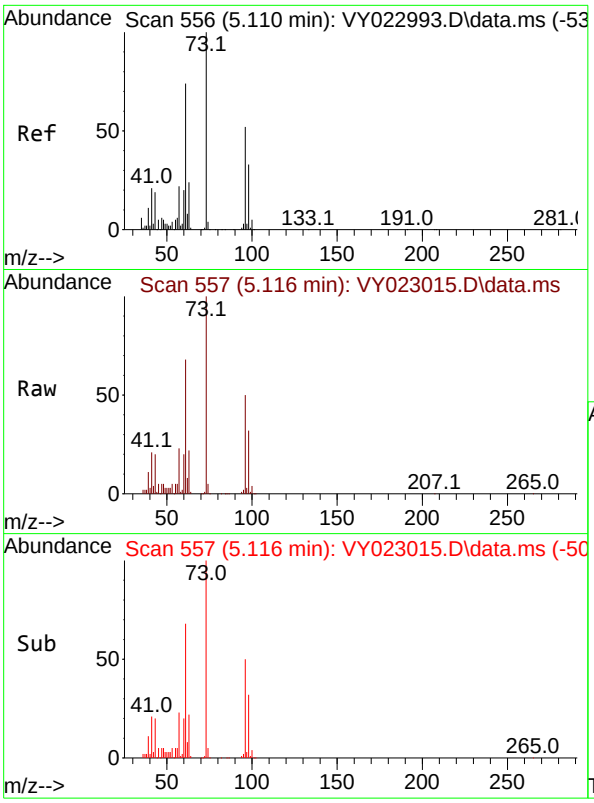


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 164914

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.1	30.1





#19
Methyl tert-butyl Ether
Concen: 49.645 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

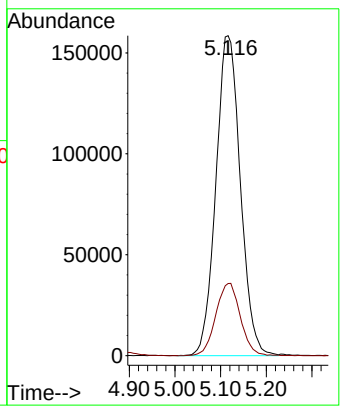
Tgt Ion: 73 Resp: 59032

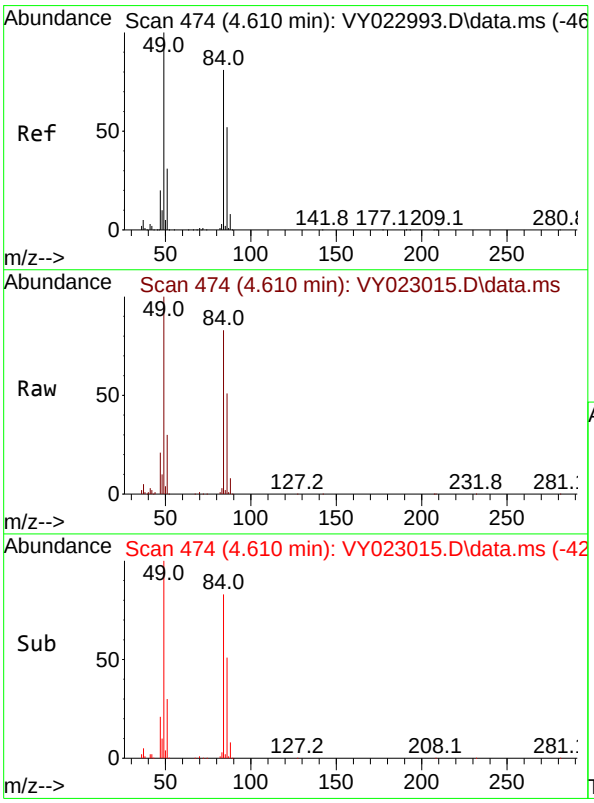
Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

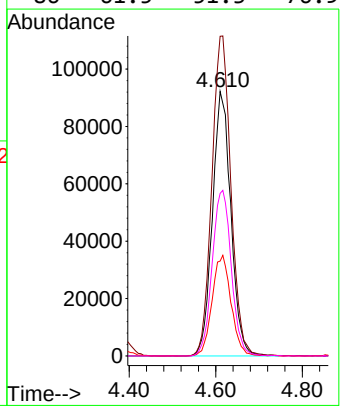


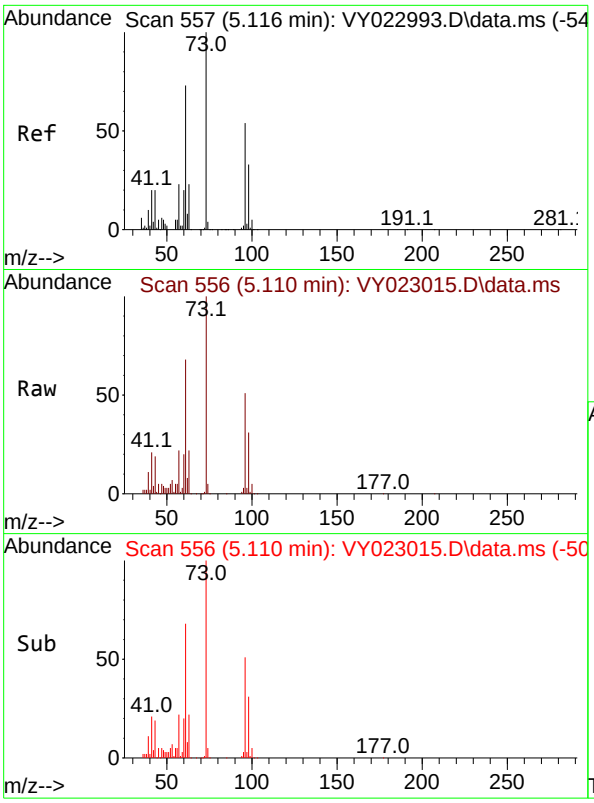


#20
Methylene Chloride
Concen: 44.522 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 84 Resp: 273604

Ion	Ratio	Lower	Upper
84	100		
49	120.9	98.2	147.4
51	35.9	30.5	45.7
86	61.5	51.3	76.9

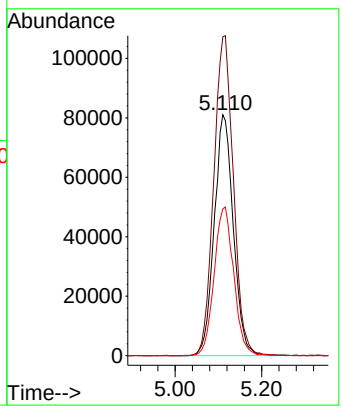




#21
trans-1,2-Dichloroethene
Concen: 45.236 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 24963

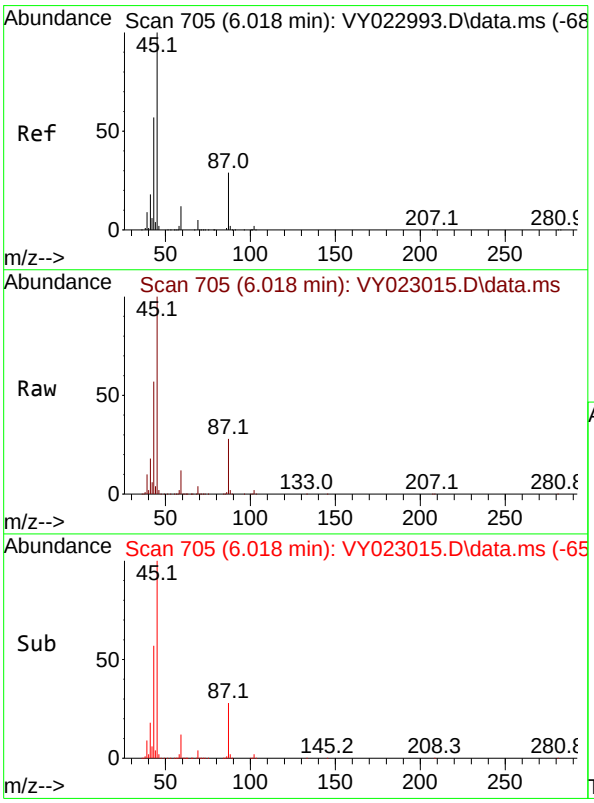
Ion	Ratio	Lower	Upper
96	100		
61	132.3	107.4	161.2
98	61.0	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

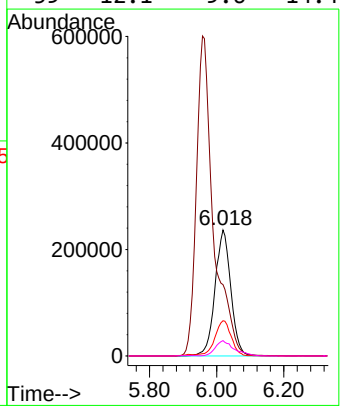
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

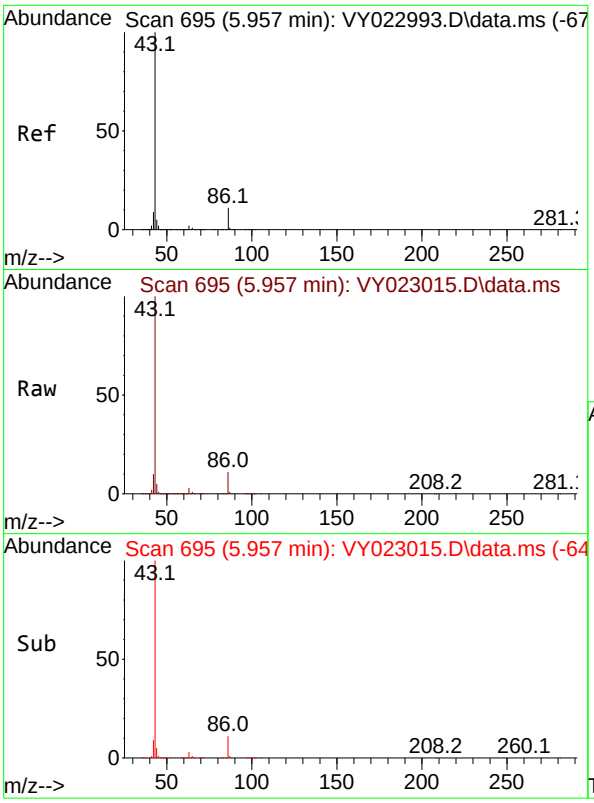


#22
Diisopropyl ether
Concen: 48.287 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 45 Resp: 773708

Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.3	67.9
87	28.0	23.3	34.9
59	12.1	9.6	14.4





#23
Vinyl Acetate
Concen: 261.701 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

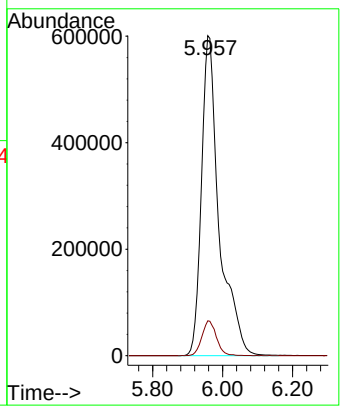
Tgt Ion: 43 Resp: 211283

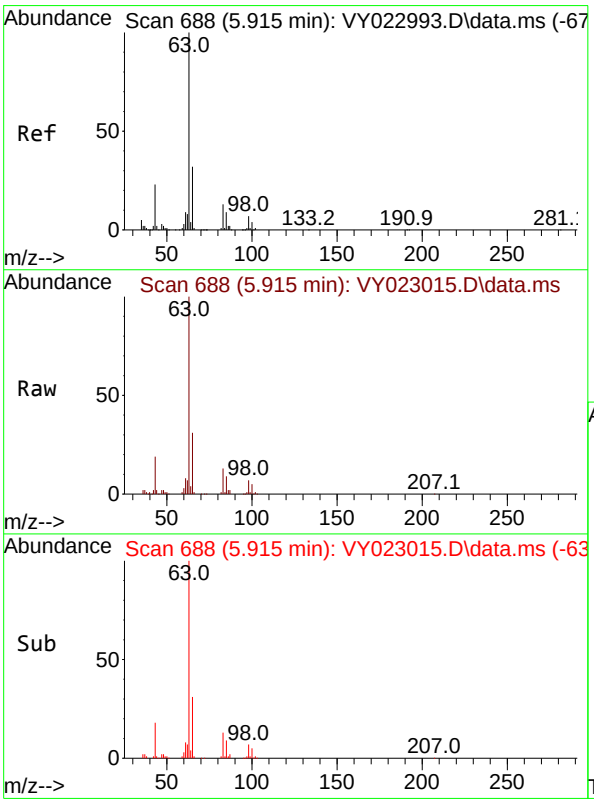
Ion	Ratio	Lower	Upper
43	100		
86	10.9	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

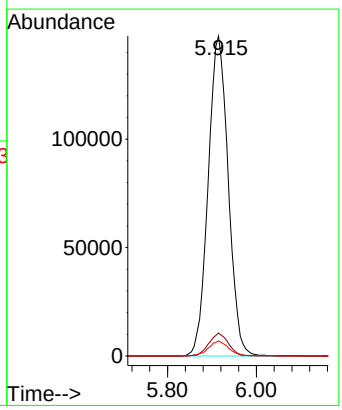


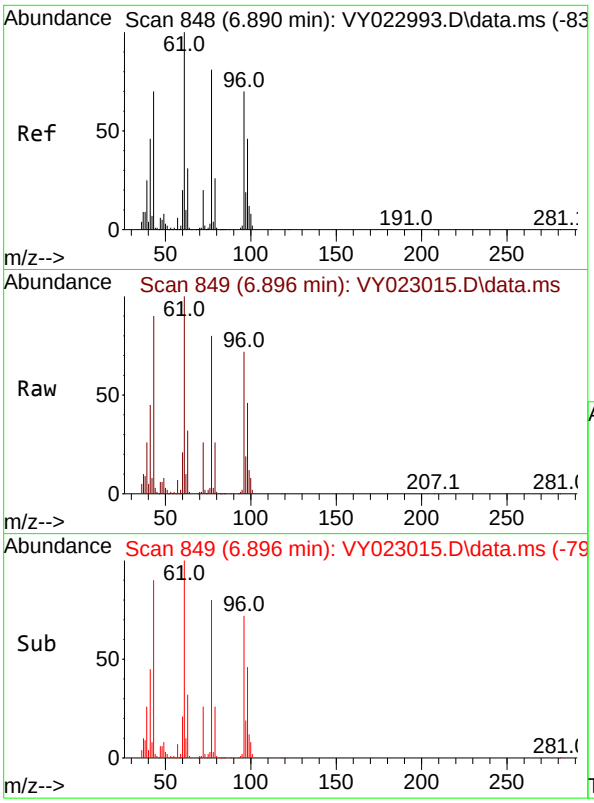


#24
1,1-Dichloroethane
Concen: 45.968 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 462627

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.5
100	4.7	2.1	6.2





#25
2-Butanone
Concen: 286.473 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

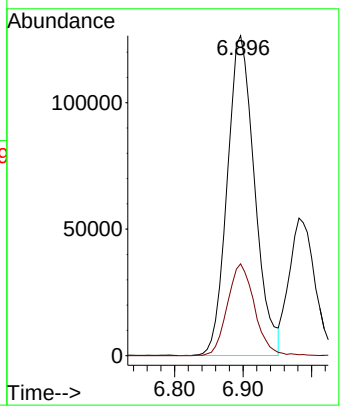
Tgt Ion: 43 Resp: 35184

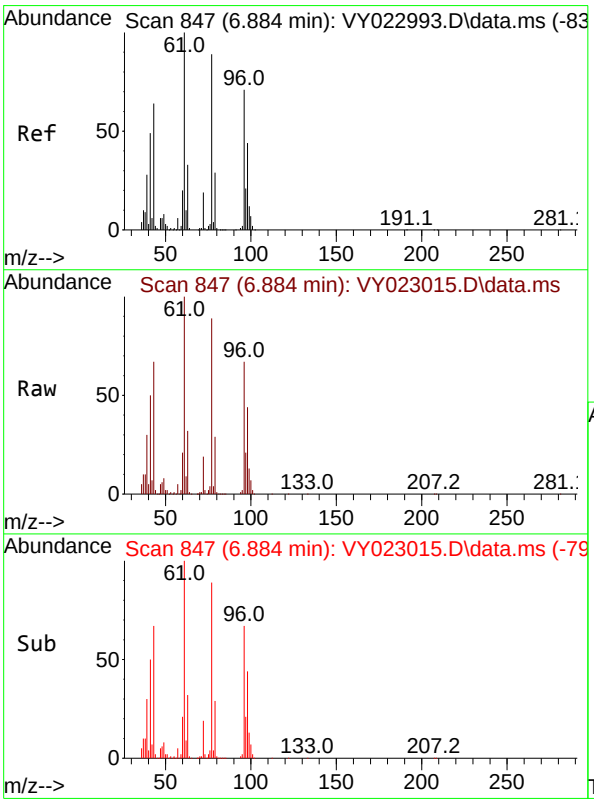
Ion	Ratio	Lower	Upper
43	100		
72	28.7	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

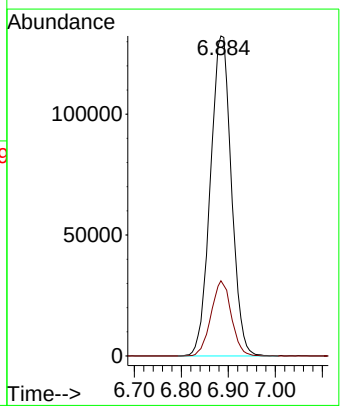


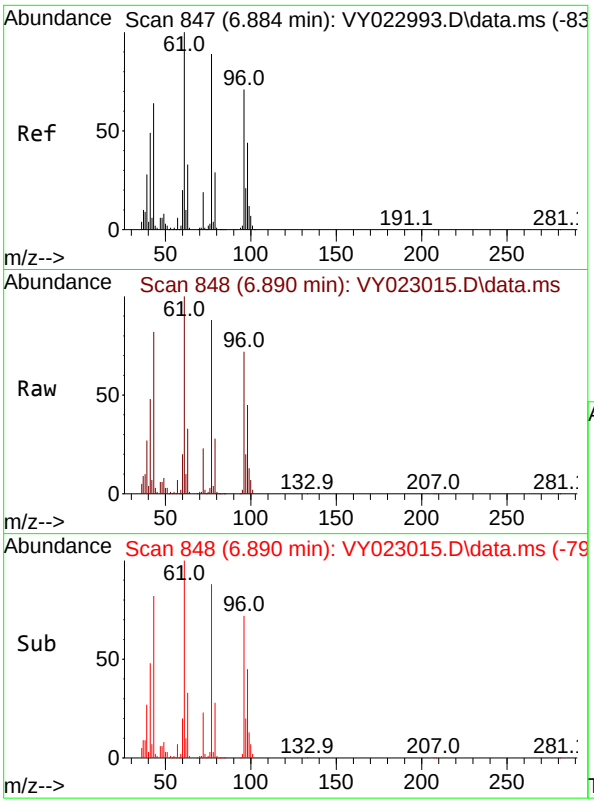


#26
2,2-Dichloropropane
Concen: 46.522 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 77 Resp: 410339

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 45.750 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

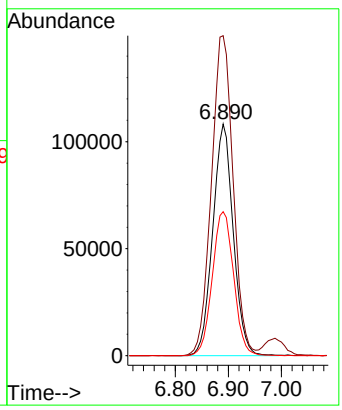
Tgt Ion: 96 Resp: 29097

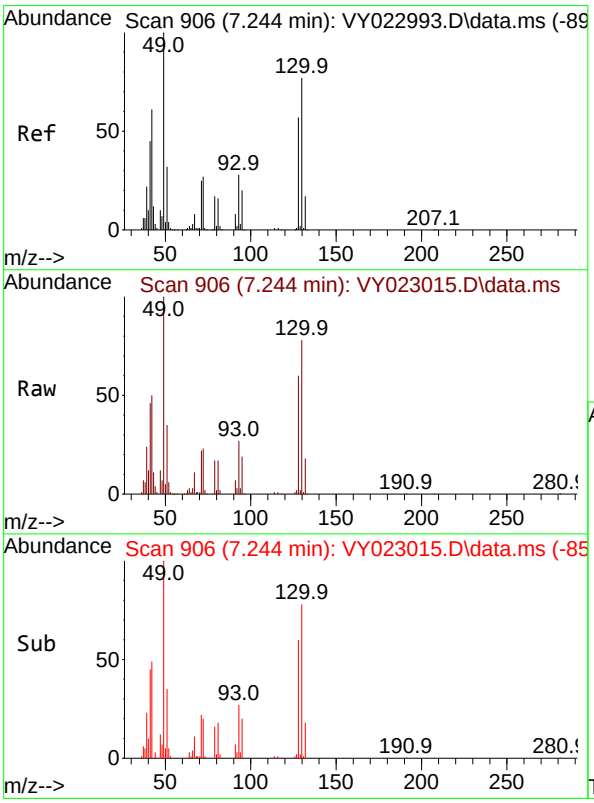
Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	286.2
98	64.6	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

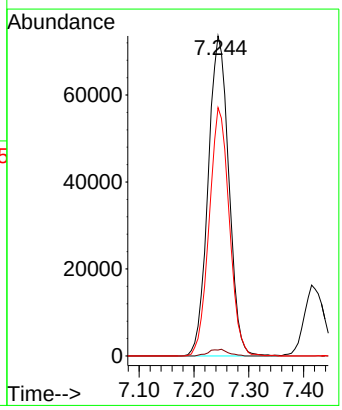


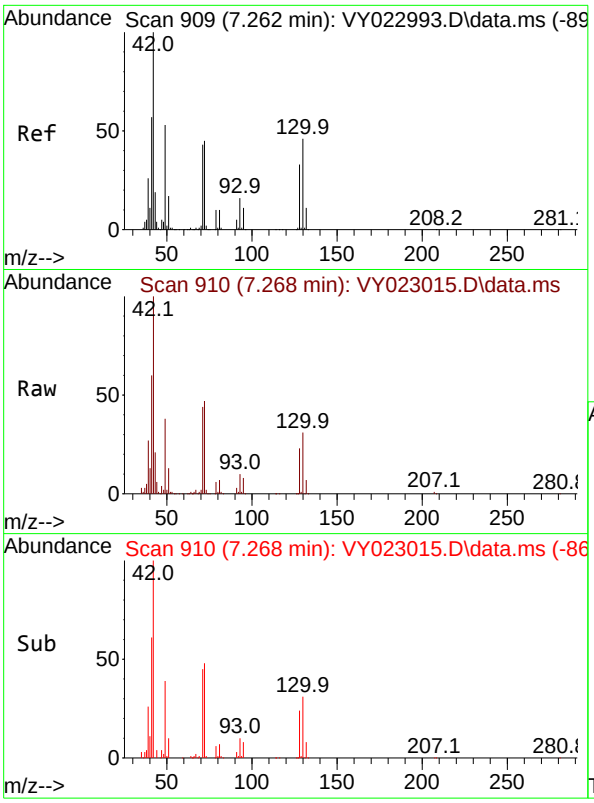


#28
Bromochloromethane
Concen: 49.320 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 49 Resp: 192517

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	75.4	61.8	92.8





#29
Tetrahydrofuran
Concen: 275.830 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

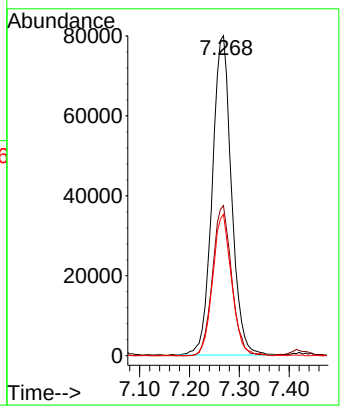
Tgt Ion: 42 Resp: 21448

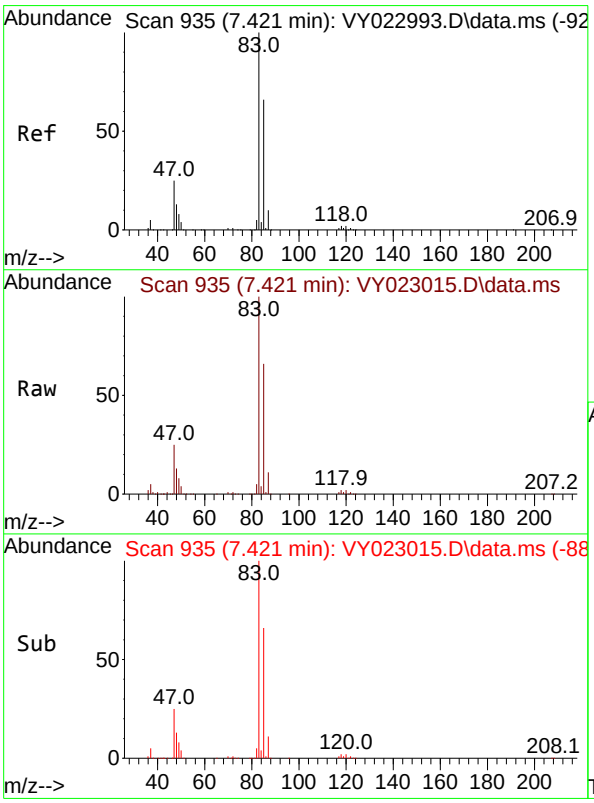
Ion	Ratio	Lower	Upper
42	100		
72	46.5	37.5	56.3
71	43.5	34.2	51.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

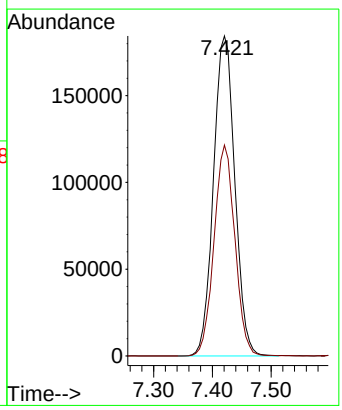


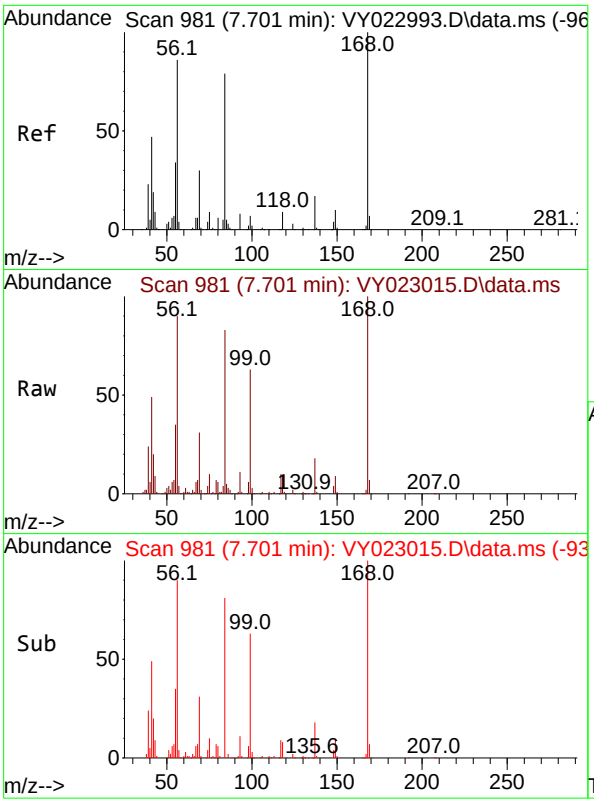


#30
Chloroform
Concen: 45.883 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 465833

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.6	78.8





#31
Cyclohexane
Concen: 43.348 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

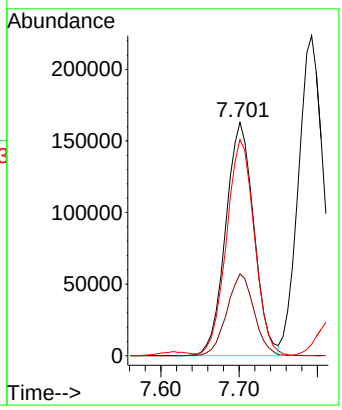
Tgt Ion: 56 Resp: 40763

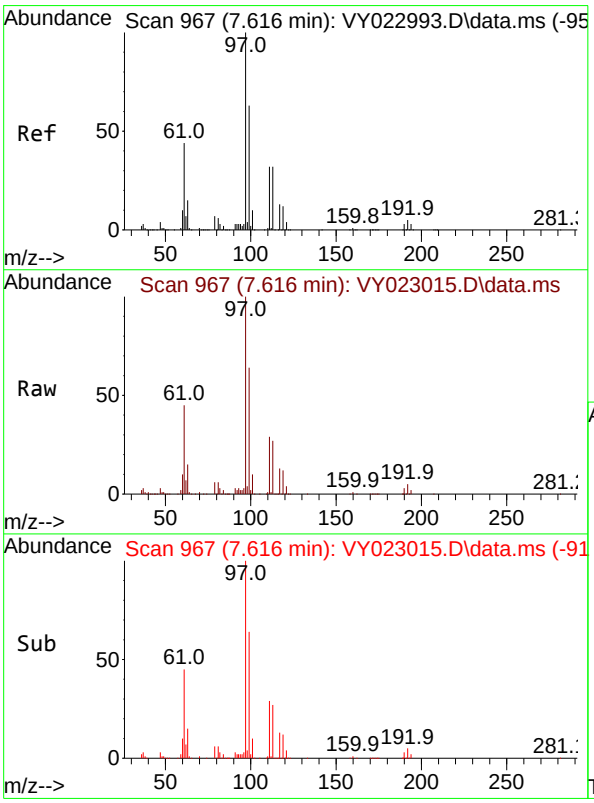
Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.1	42.1
84	91.1	73.5	110.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

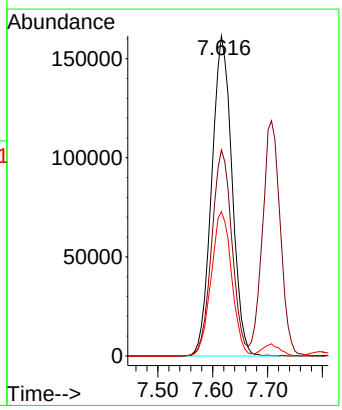


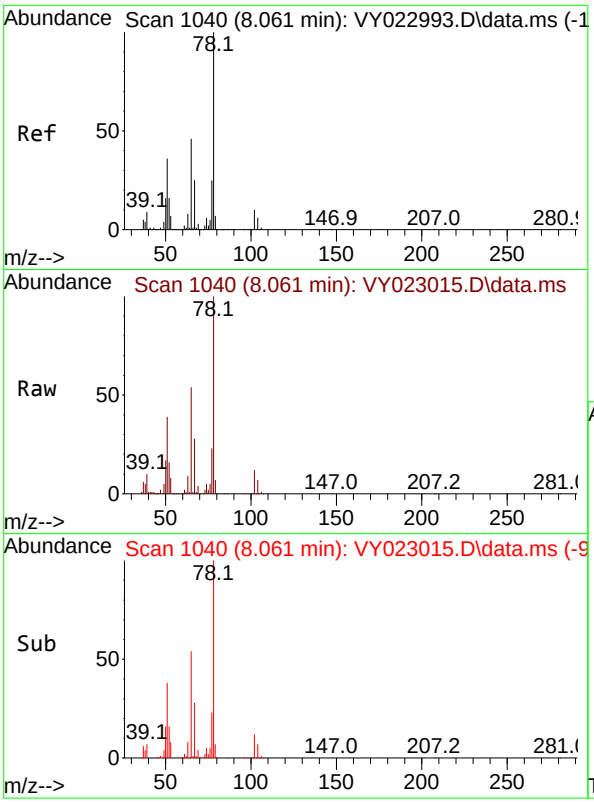


#32
1,1,1-Trichloroethane
Concen: 45.068 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 97 Resp: 415153

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	45.7	36.1	54.1

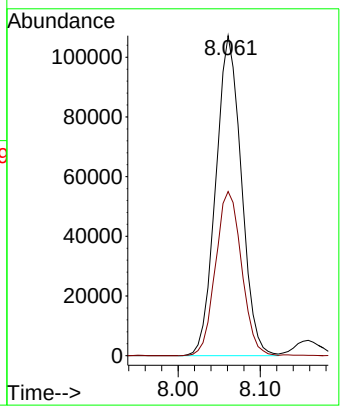




#33
1,2-Dichloroethane-d4
Concen: 49.053 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 65 Resp: 23168

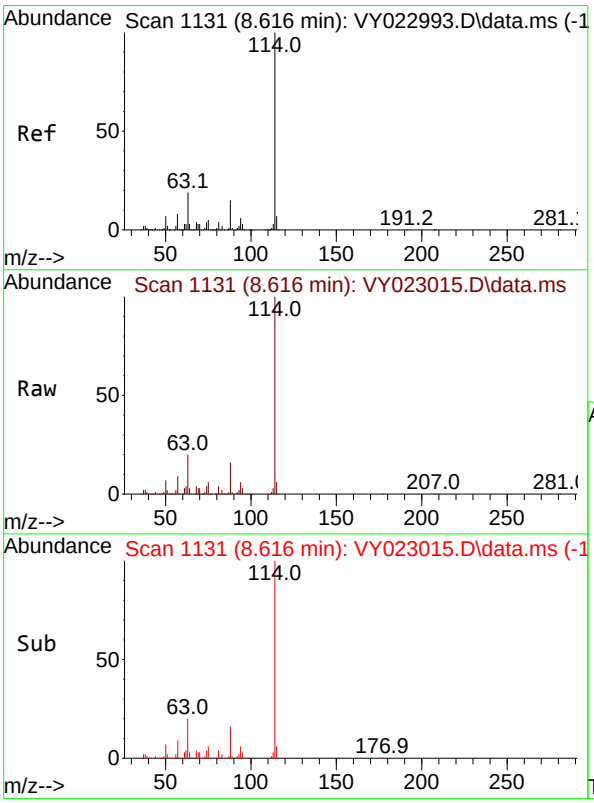
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

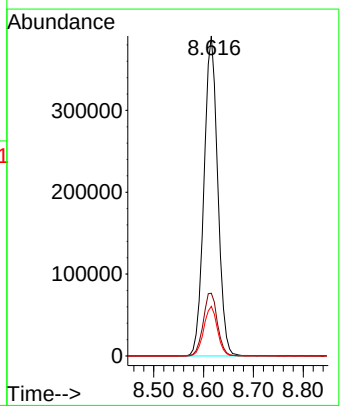
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

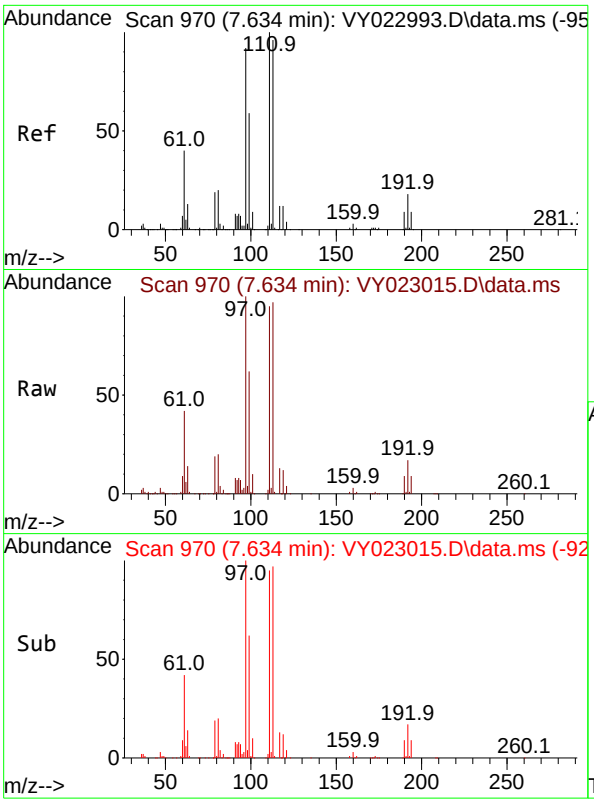


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:114 Resp: 745278

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.8
88	15.5	0.0	30.2





#35
Dibromofluoromethane
Concen: 46.314 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

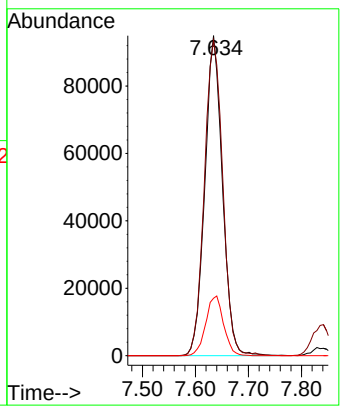
Tgt Ion:113 Resp: 21895

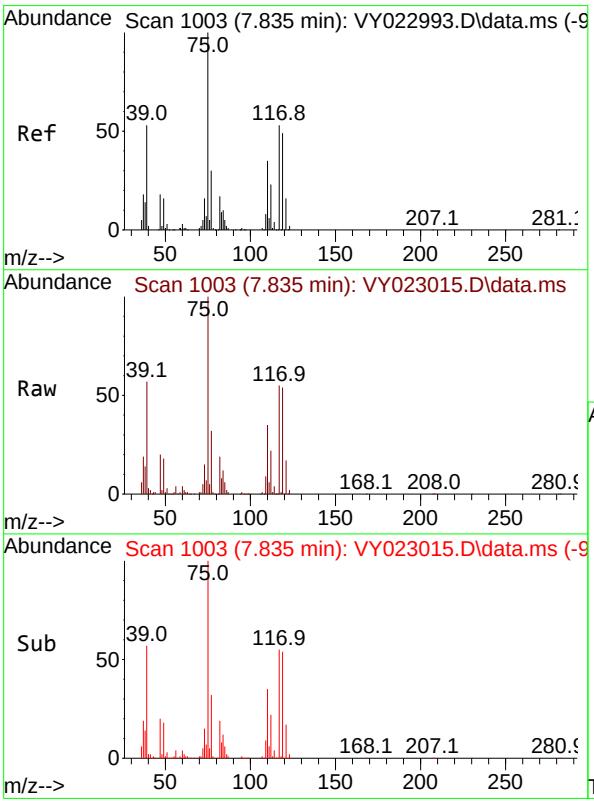
Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.2	124.8
192	18.9	15.3	22.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

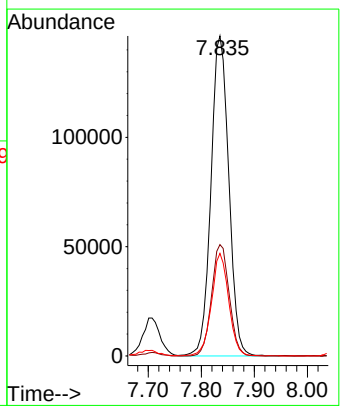


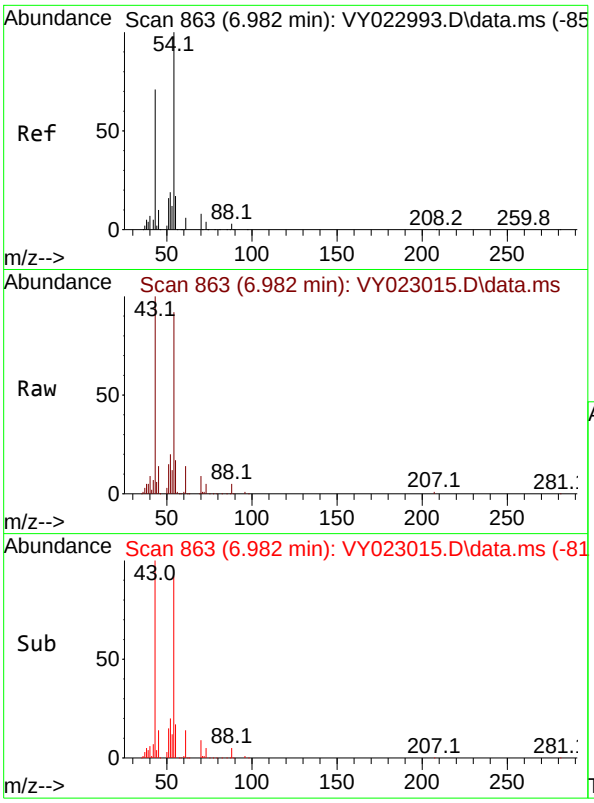


#36
1,1-Dichloropropene
Concen: 45.967 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 342303

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.3	51.9
77	31.0	24.6	37.0





#37
Ethyl Acetate
Concen: 52.544 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

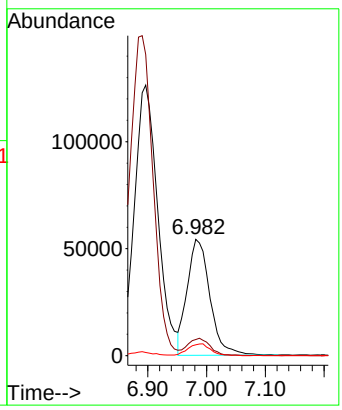
Tgt Ion: 43 Resp: 14532

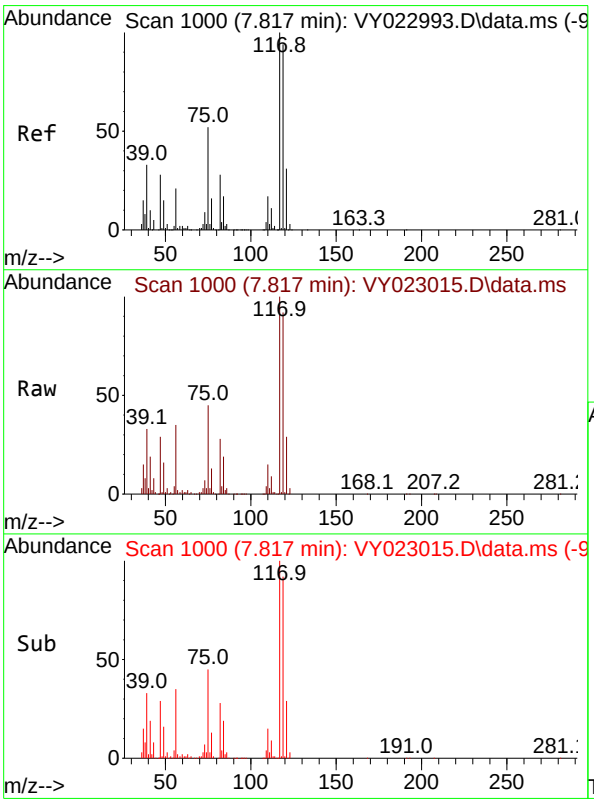
Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.6	17.4
70	10.2	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

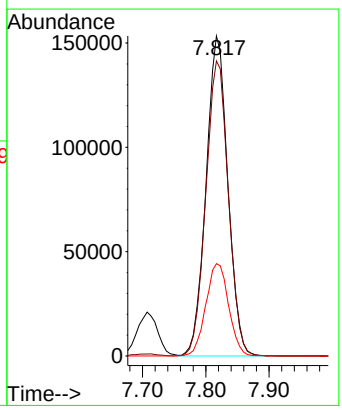


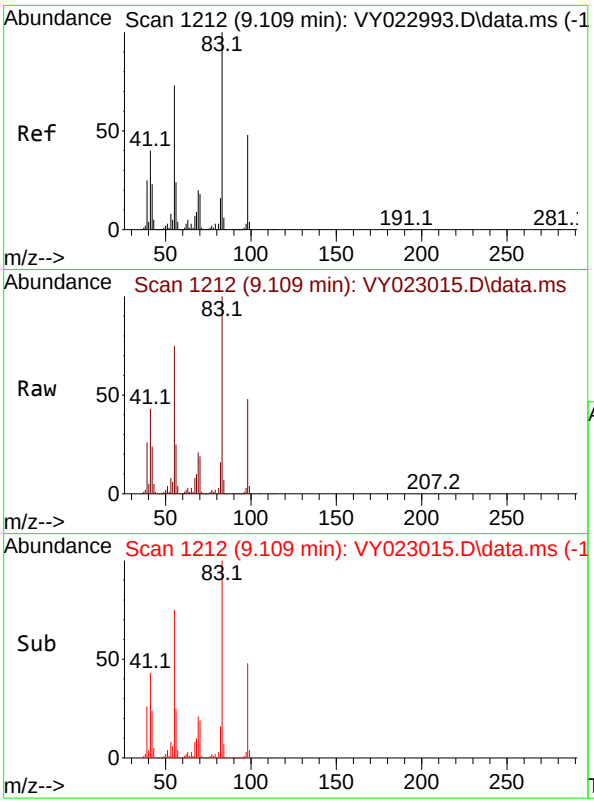


#38
Carbon Tetrachloride
Concen: 45.380 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 367135

Ion	Ratio	Lower	Upper
117	100		
119	92.2	74.9	112.3
121	28.9	24.6	37.0

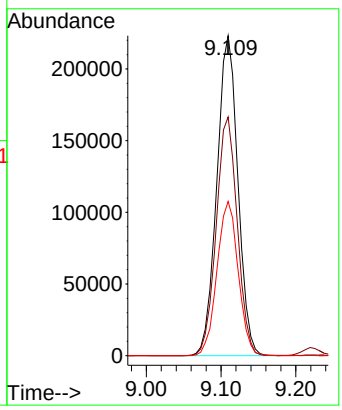




#39
Methylcyclohexane
Concen: 45.487 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 43842

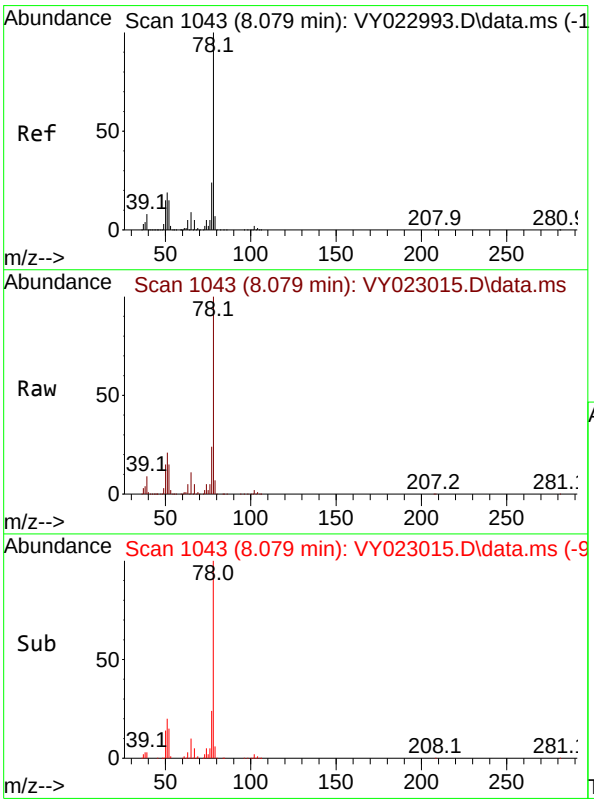
Ion	Ratio	Lower	Upper
83	100		
55	74.6	58.1	87.1
98	48.2	38.5	57.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

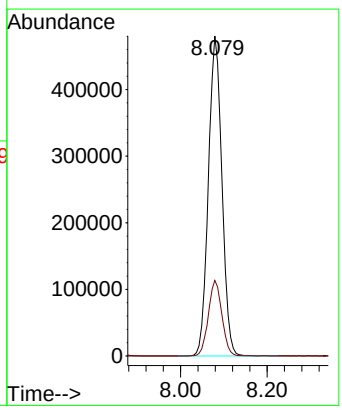
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

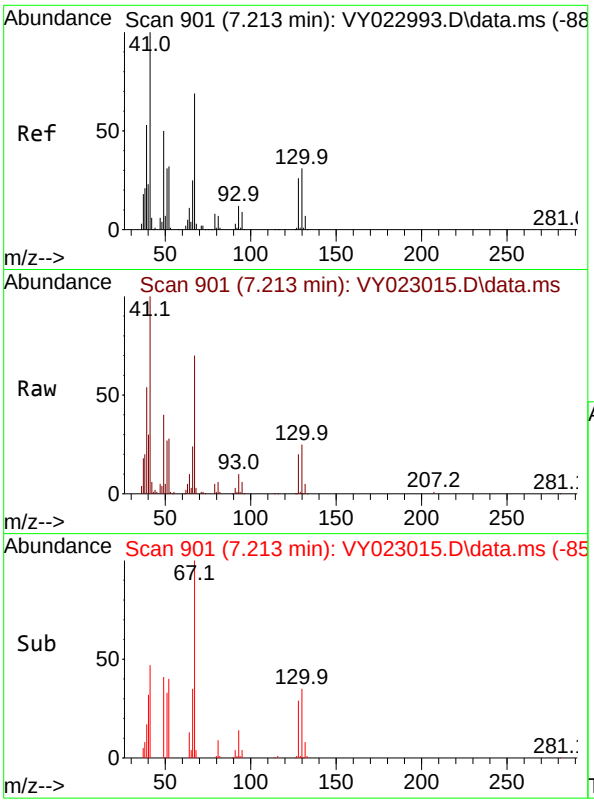


#40
Benzene
Concen: 46.502 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 78 Resp: 1042640

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4

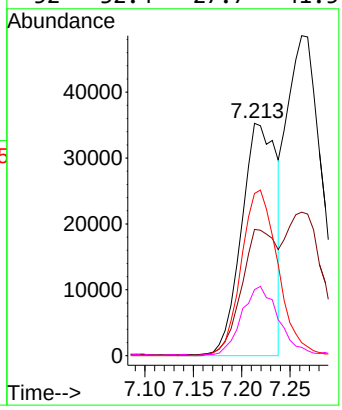




#41
Methacrylonitrile
Concen: 59.045 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 8895(

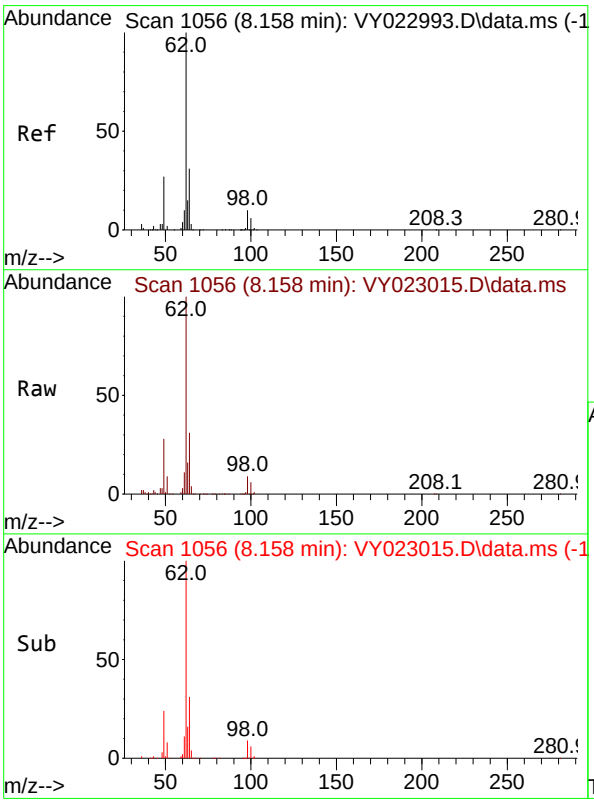
Ion	Ratio	Lower	Upper
41	100		
39	54.2	50.0	75.0
67	74.5	65.4	98.2
52	32.4	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

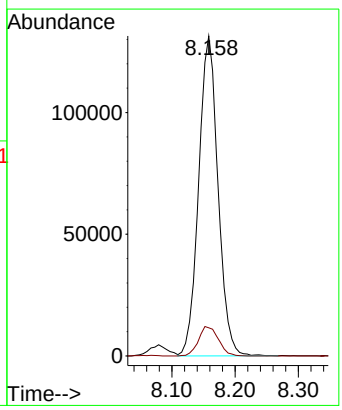
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

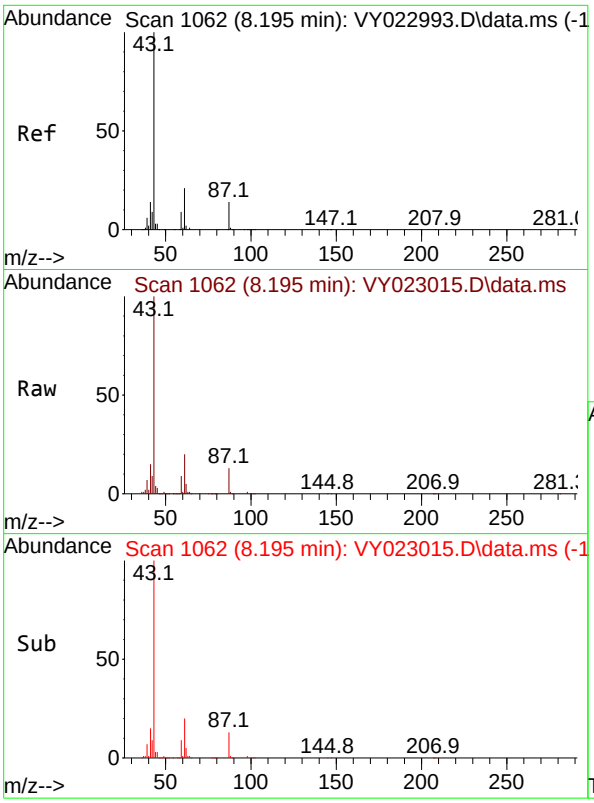


#42
1,2-Dichloroethane
Concen: 50.055 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 279220

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0

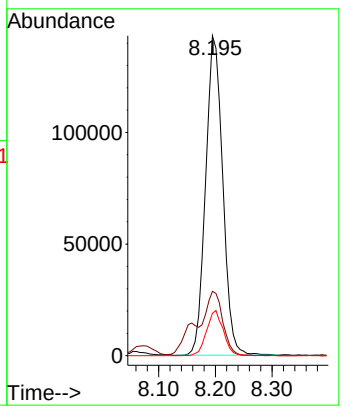




#43
Isopropyl Acetate
Concen: 54.629 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 30011

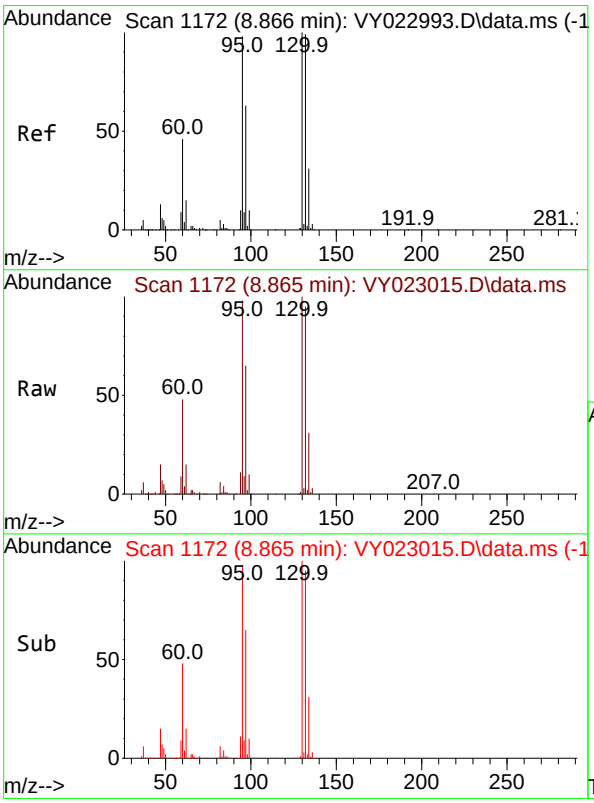
Ion	Ratio	Lower	Upper
43	100		
61	21.0	25.0	37.4
87	13.9	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

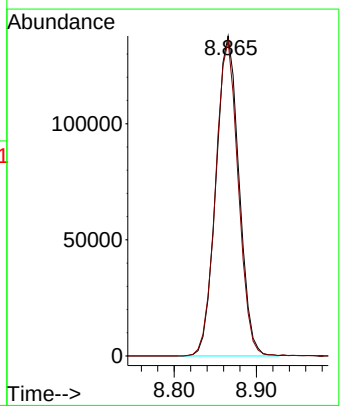
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

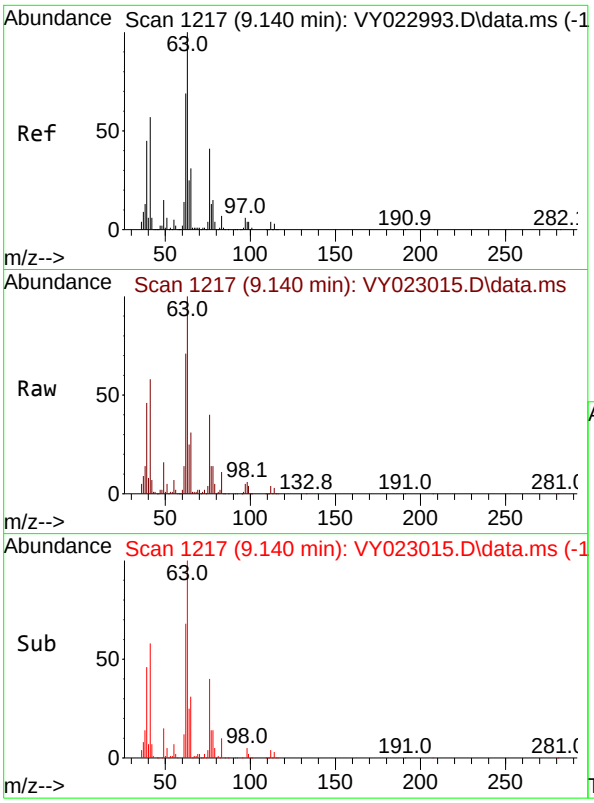


#44
Trichloroethene
Concen: 46.410 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:130 Resp: 267268

Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	195.8

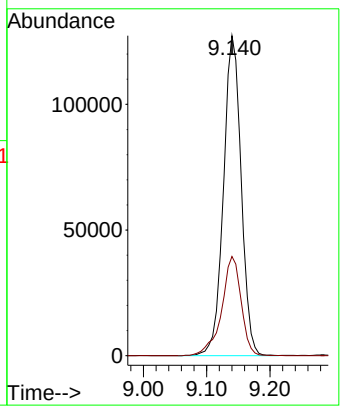




#45
1,2-Dichloropropane
Concen: 47.131 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 24677

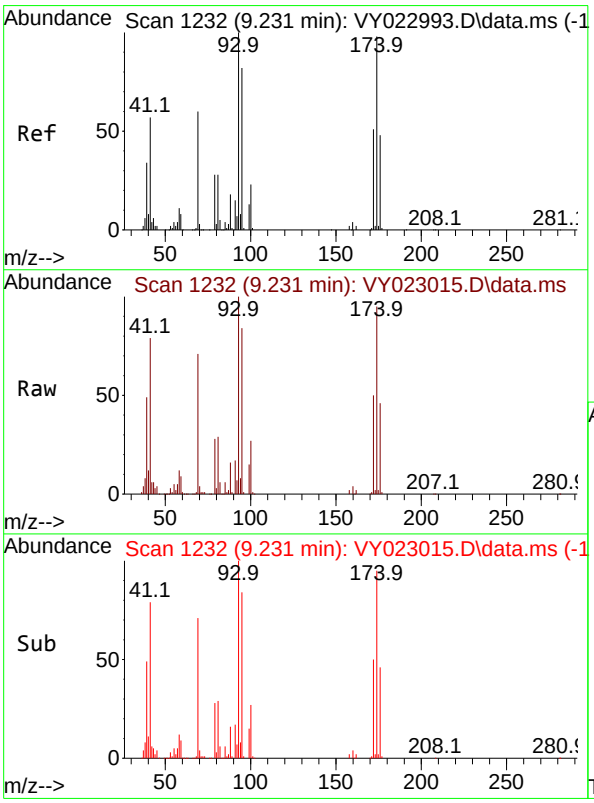
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

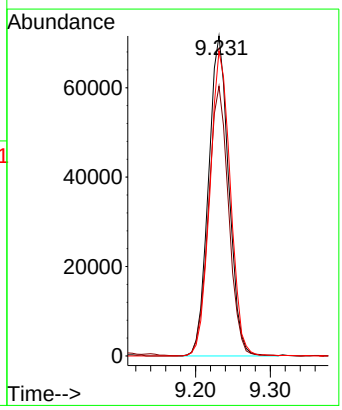
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

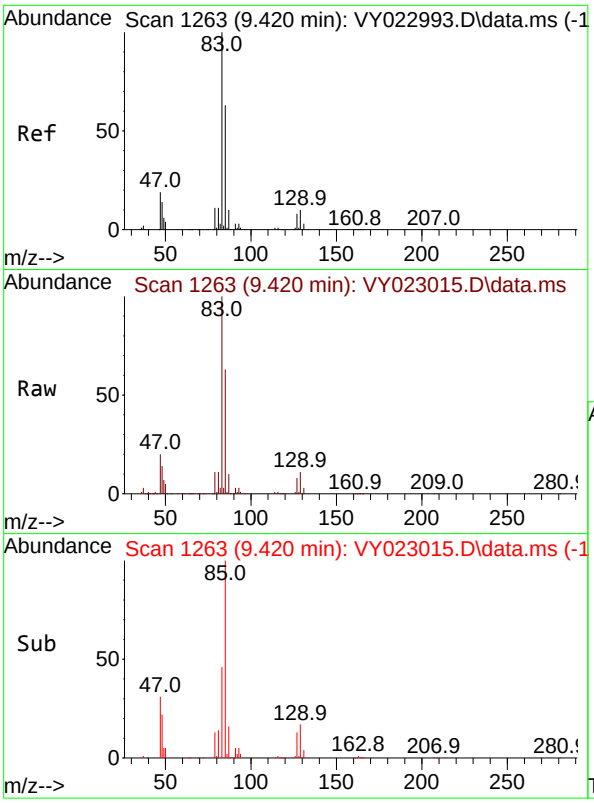


#46
Dibromomethane
Concen: 49.790 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 93 Resp: 134753

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.9	98.9
174	96.5	76.4	114.6

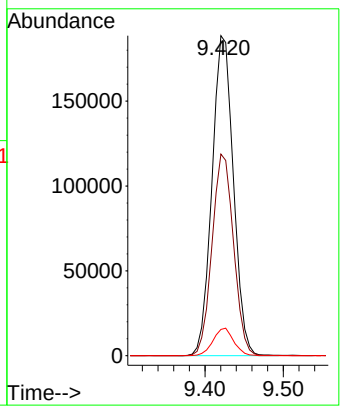




#47
Bromodichloromethane
Concen: 47.861 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 35805

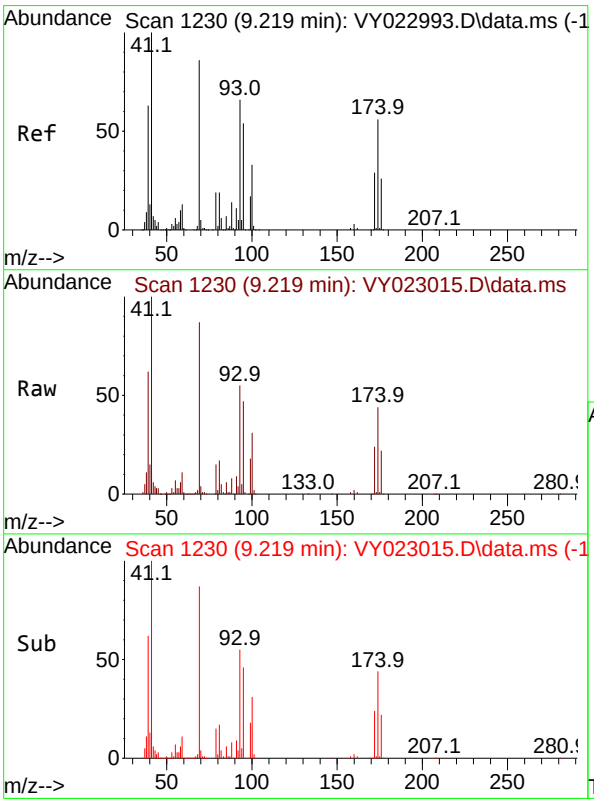
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.6	75.8
127	8.2	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

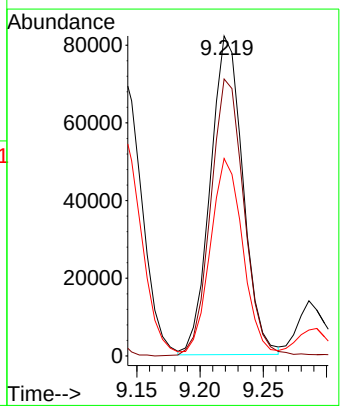
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

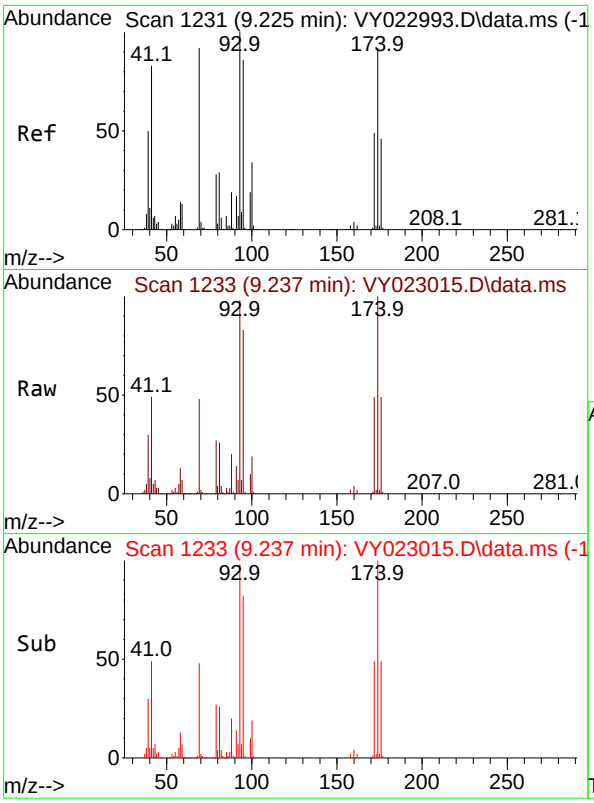


#48
Methyl methacrylate
Concen: 55.518 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 147249

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	59.4	47.8	71.8





#49
1,4-Dioxane
Concen: 1129.451 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

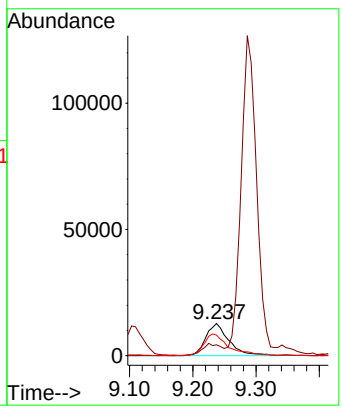
Tgt Ion: 88 Resp: 3222

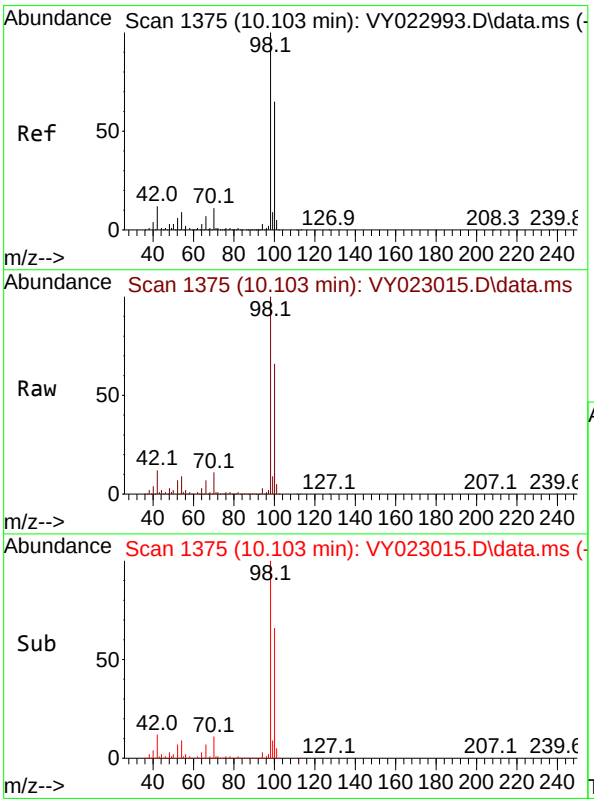
Ion	Ratio	Lower	Upper
88	100		
43	30.1	28.7	43.1
58	72.7	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

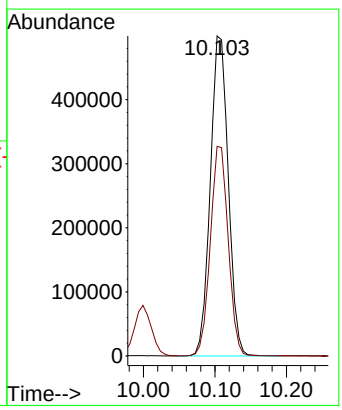


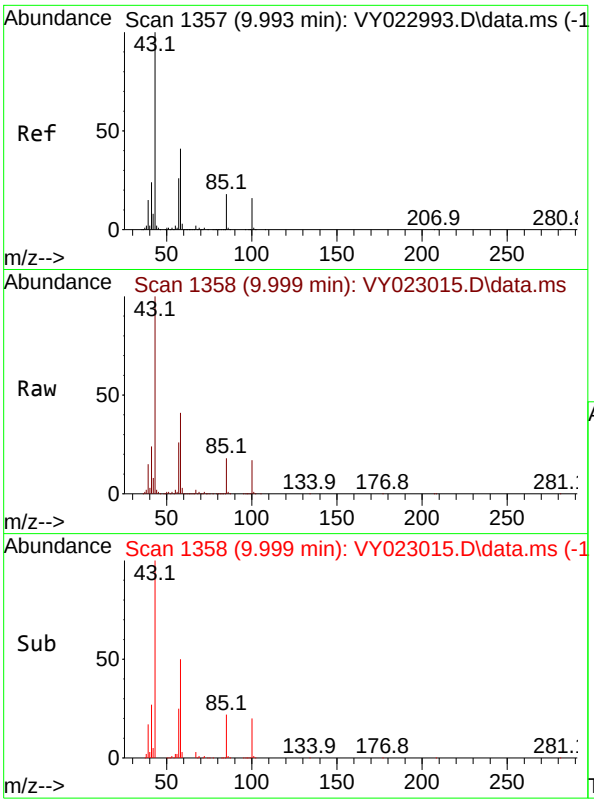


#50
Toluene-d8
Concen: 46.437 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 98 Resp: 870592

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.2	78.2

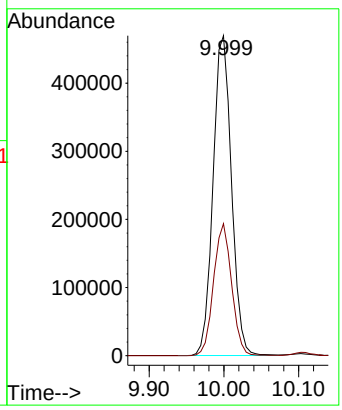




#51
4-Methyl-2-Pentanone
Concen: 288.338 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 80400

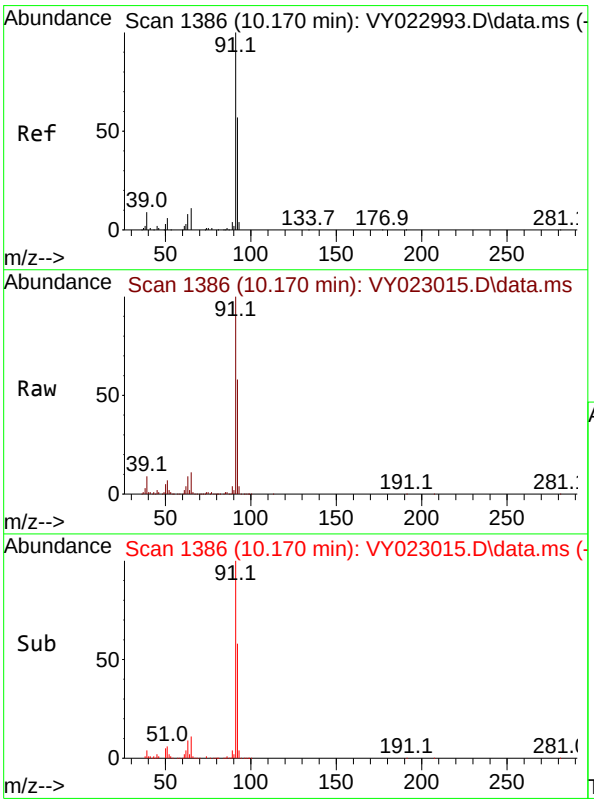
Ion	Ratio	Lower	Upper
43	100		
58	40.5	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

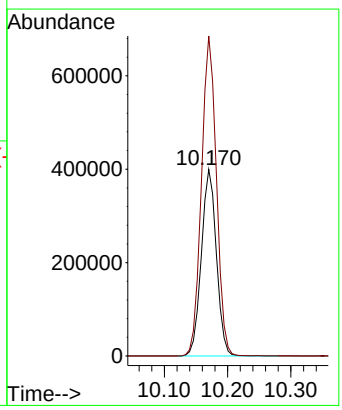
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

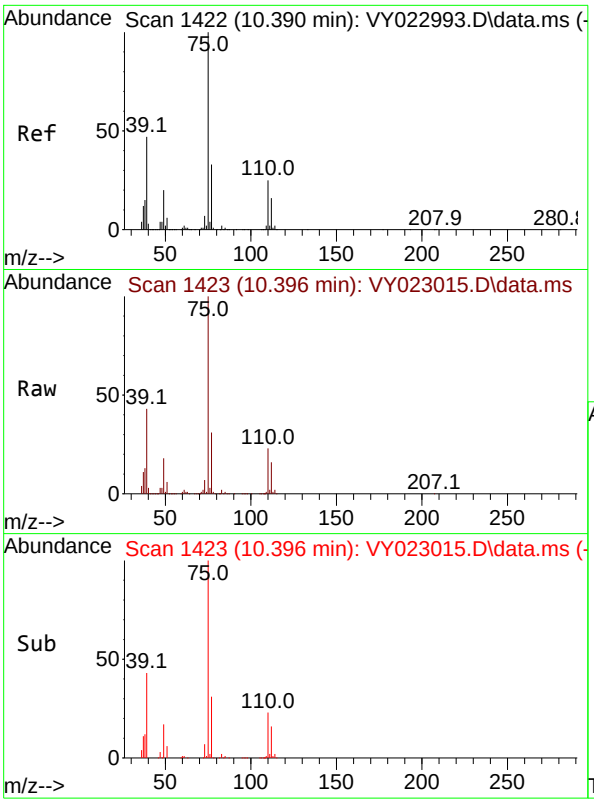


#52
Toluene
Concen: 47.287 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 92 Resp: 659183

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.8	206.6

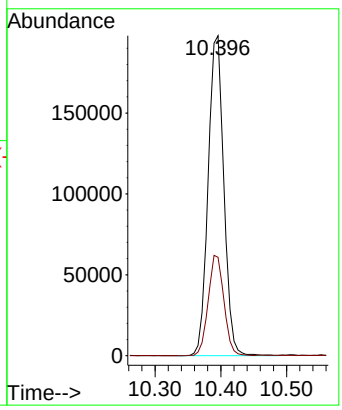




#53
t-1,3-Dichloropropene
Concen: 51.095 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 32811

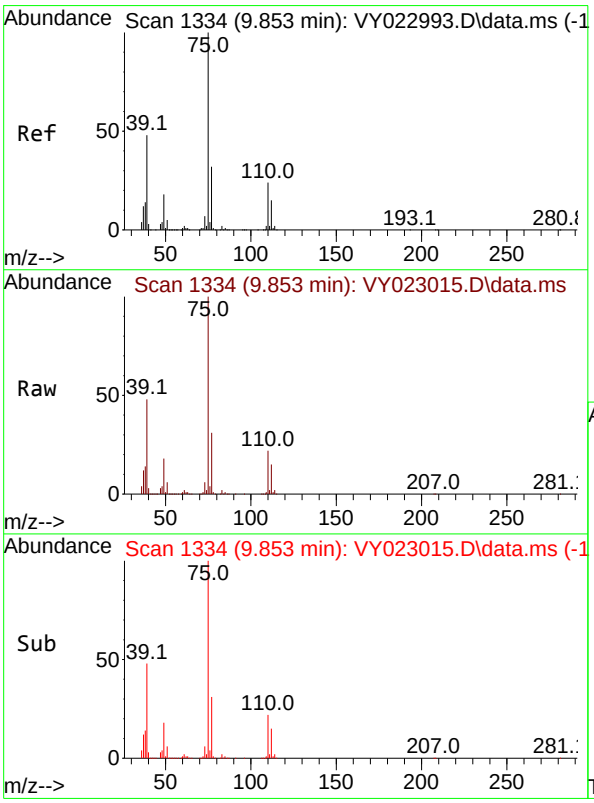
Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.4	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

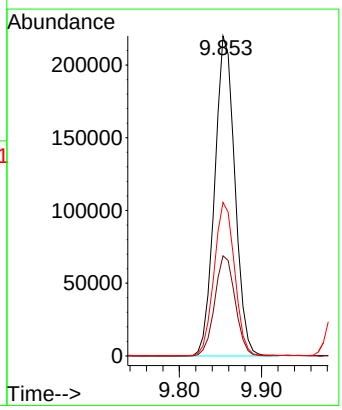
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

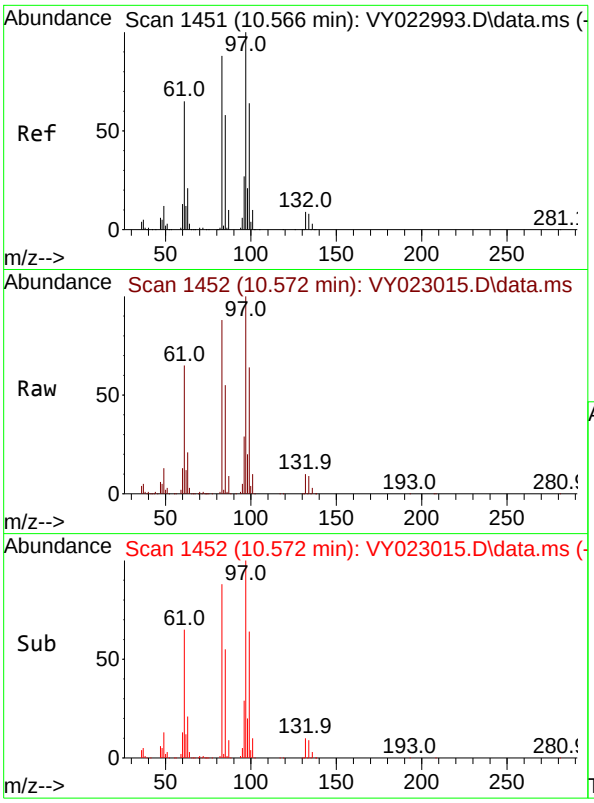


#54
cis-1,3-Dichloropropene
Concen: 48.527 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 375614

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	47.9	38.2	57.2

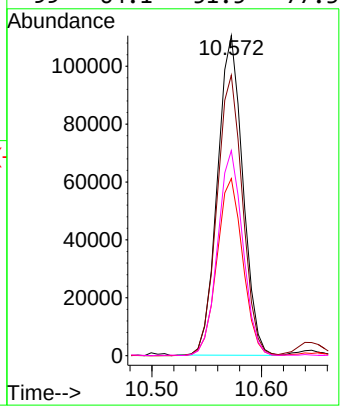




#55
1,1,2-Trichloroethane
Concen: 49.876 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 97 Resp: 17741

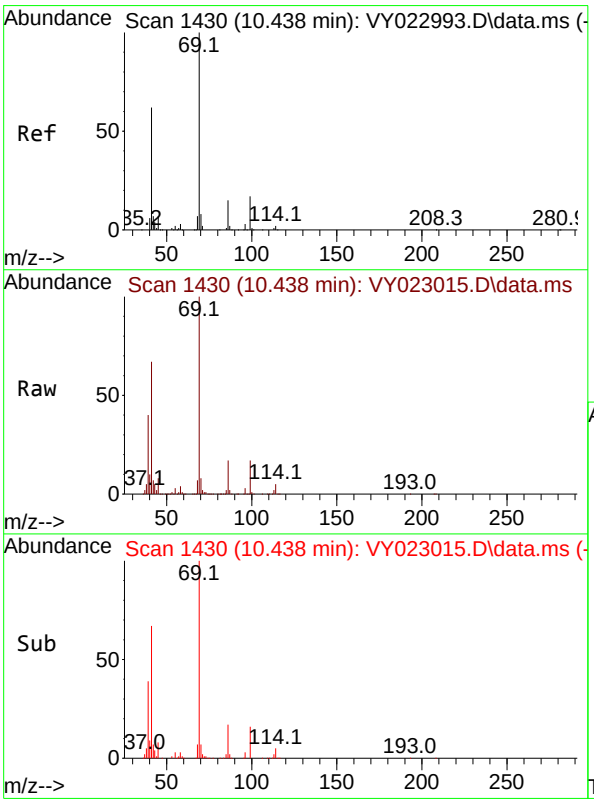
Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.2	105.2
85	55.4	46.2	69.2
99	64.1	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

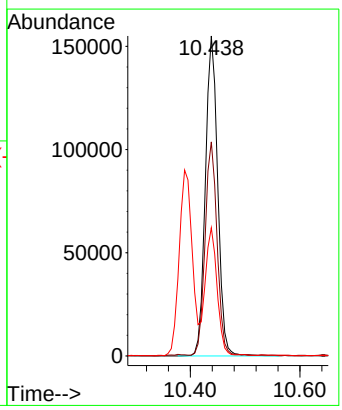
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

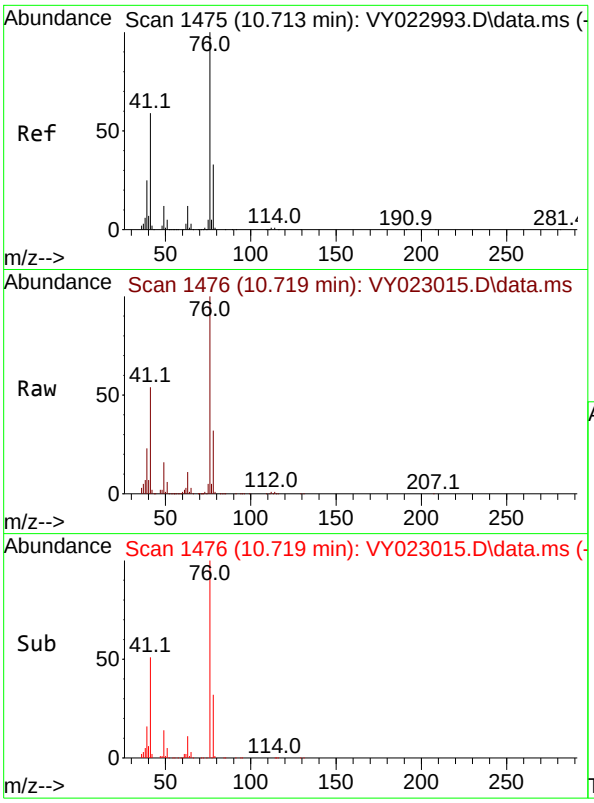


#56
Ethyl methacrylate
Concen: 54.291 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 69 Resp: 241078

Ion	Ratio	Lower	Upper
69	100		
41	64.7	51.0	76.4
39	39.3	30.6	46.0

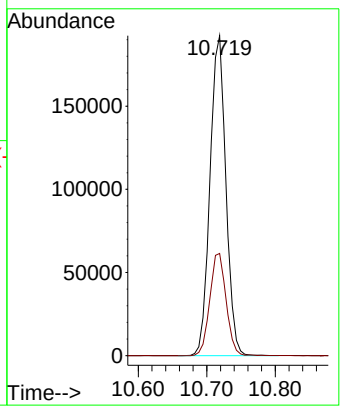




#57
1,3-Dichloropropane
Concen: 50.497 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 76 Resp: 31030

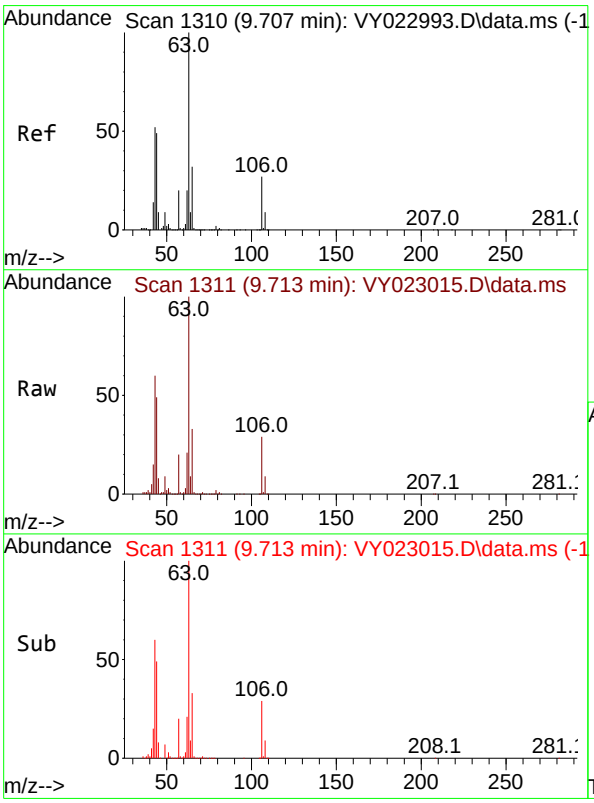
Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

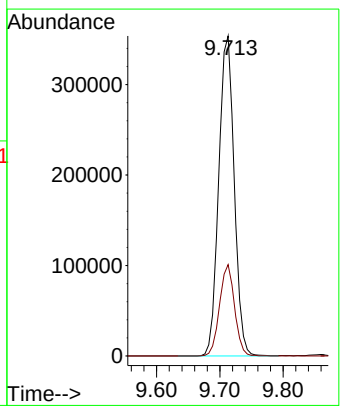
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

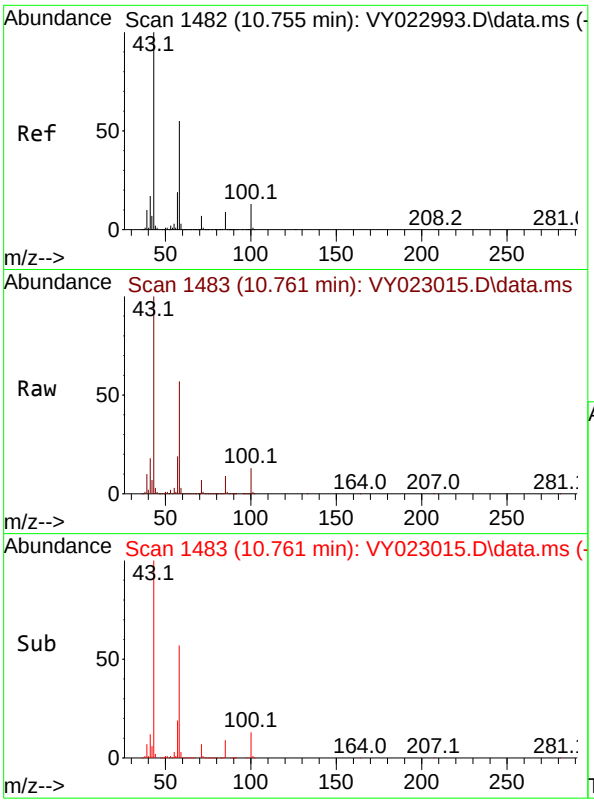


#58
2-Chloroethyl Vinyl ether
Concen: 275.393 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 598615

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.6	33.8





#59
2-Hexanone
Concen: 298.947 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

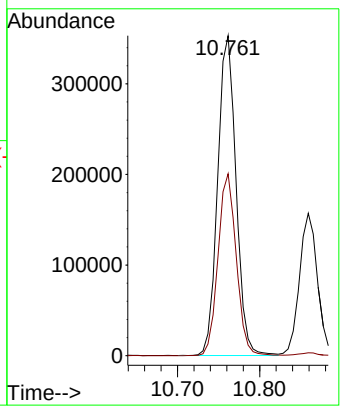
Tgt Ion: 43 Resp: 54792

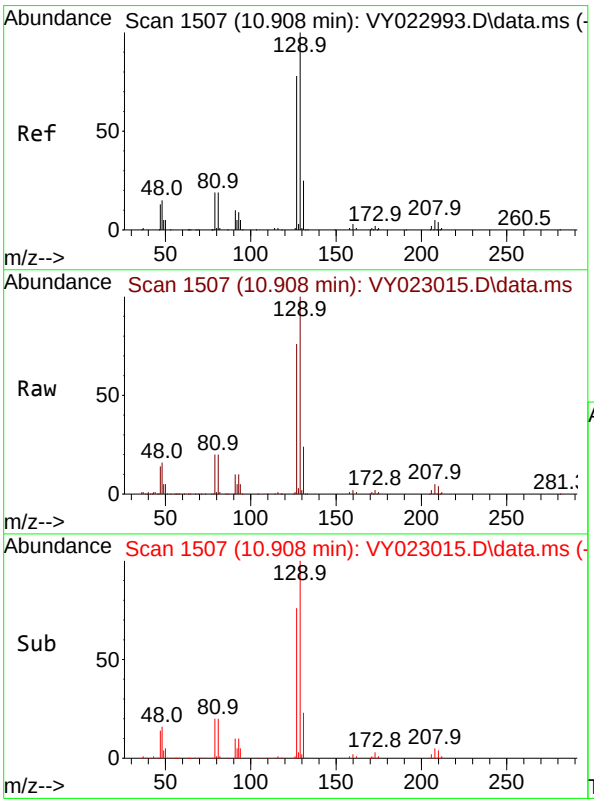
Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

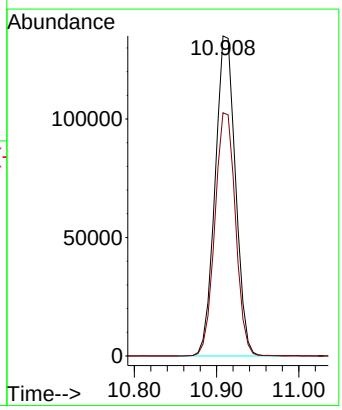


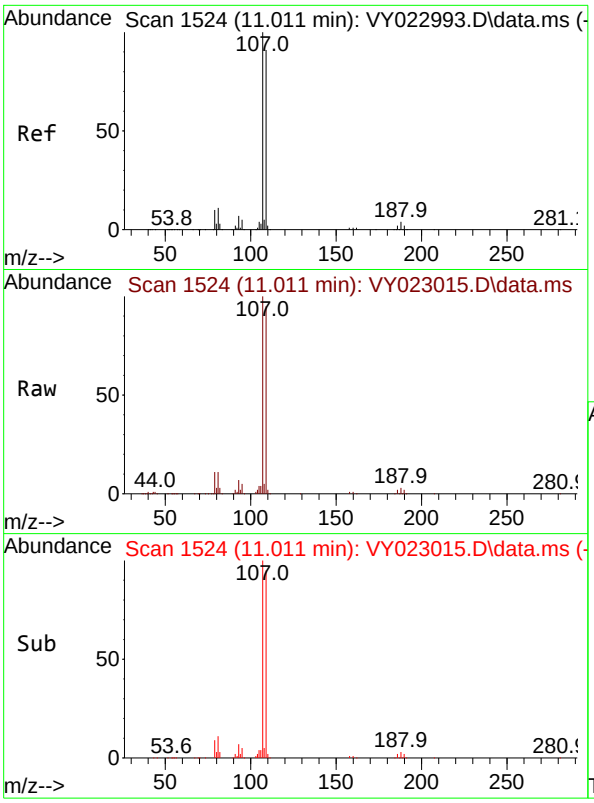


#60
Dibromochloromethane
Concen: 49.953 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:129 Resp: 232680

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.7	116.1

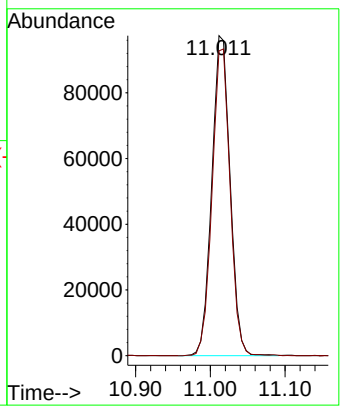




#61
1,2-Dibromoethane
Concen: 51.415 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:107 Resp: 16608

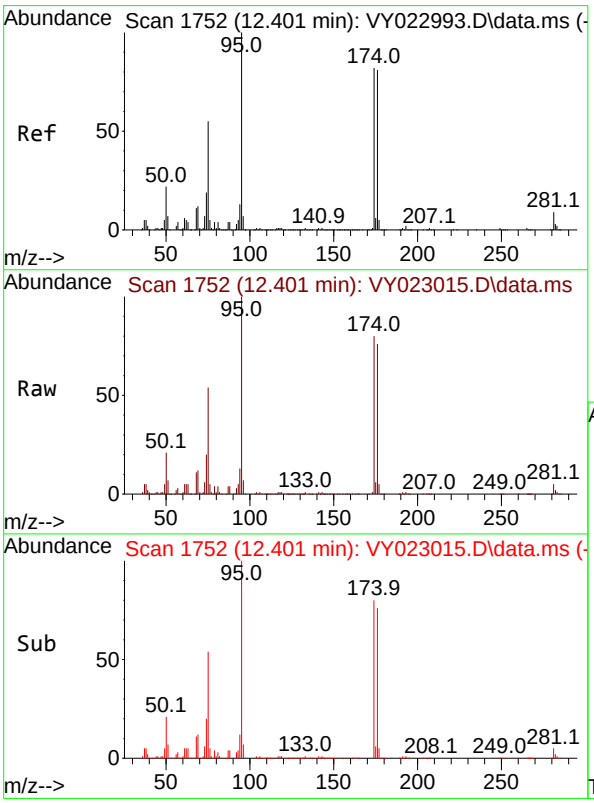
Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

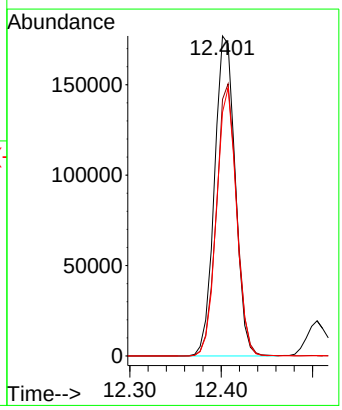
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

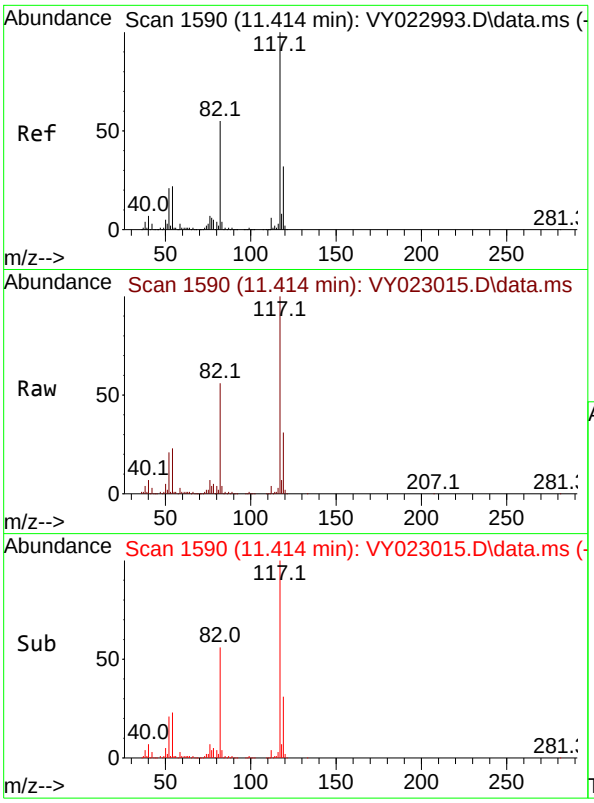


#62
4-Bromofluorobenzene
Concen: 47.233 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 95 Resp: 278747

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	170.8
176	80.7	0.0	163.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

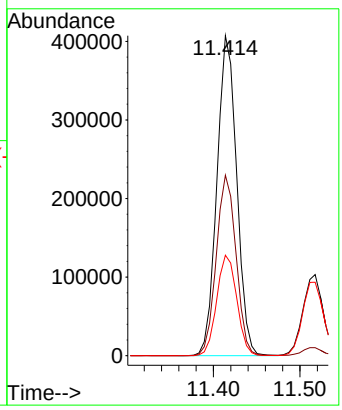
Tgt Ion:117 Resp: 64627

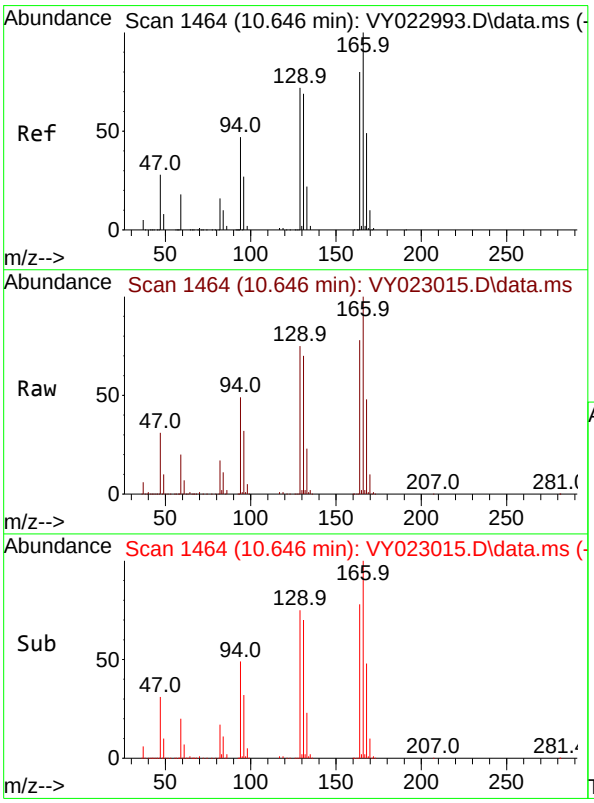
Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.3	66.5
119	31.4	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

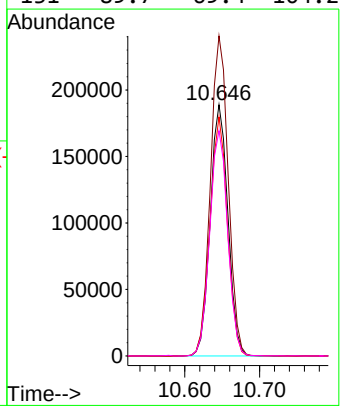


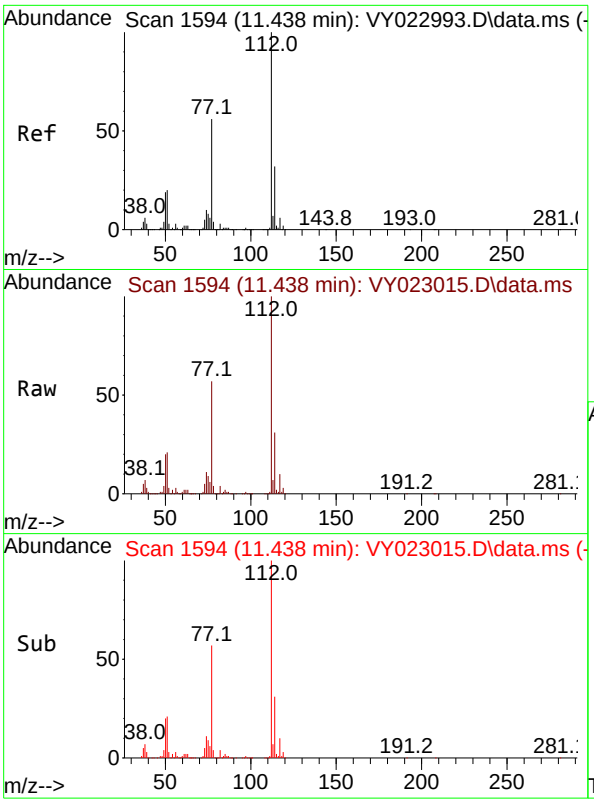


#64
Tetrachloroethene
Concen: 46.956 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:164 Resp: 310183

Ion	Ratio	Lower	Upper
164	100		
166	127.4	100.2	150.2
129	95.2	71.7	107.5
131	89.7	69.4	104.2





#65
Chlorobenzene
Concen: 46.305 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

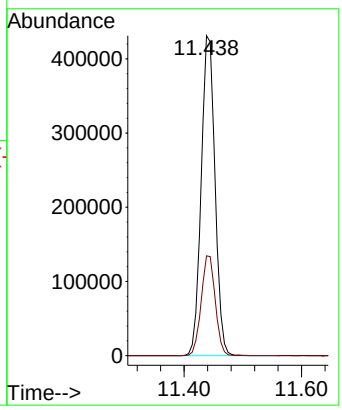
Tgt Ion:112 Resp: 70616

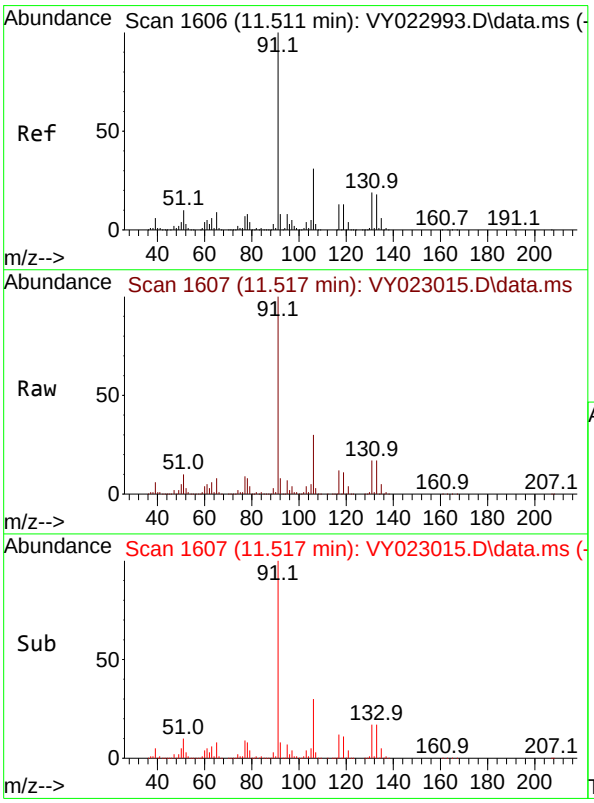
Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.4	38.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

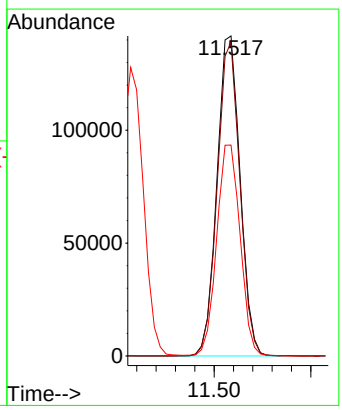


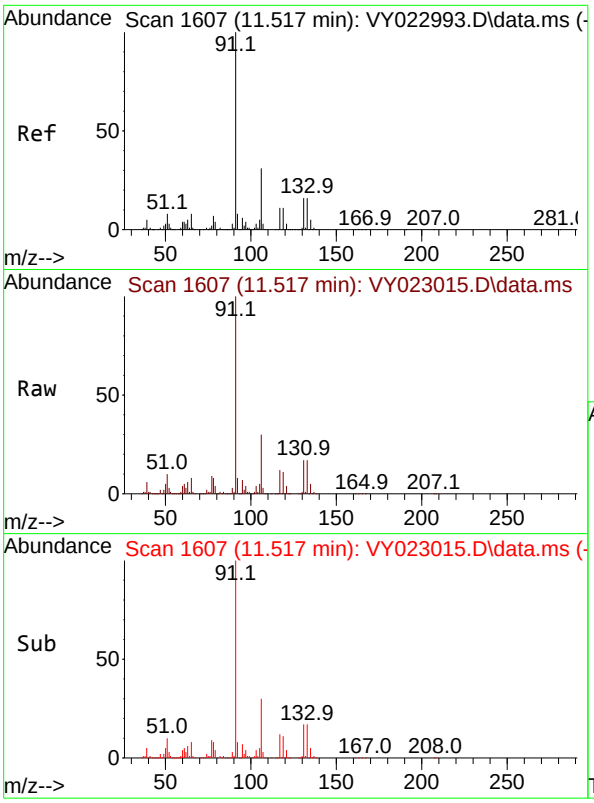


#66
1,1,1,2-Tetrachloroethane
Concen: 45.267 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:131 Resp: 235455

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.8	143.3
119	66.8	33.3	99.8

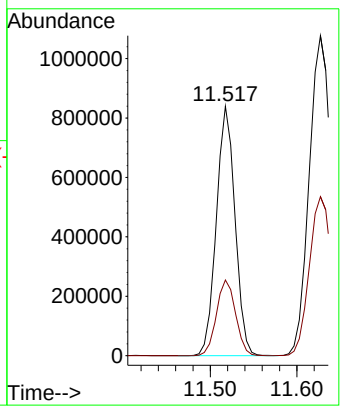




#67
Ethyl Benzene
Concen: 46.541 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 125804

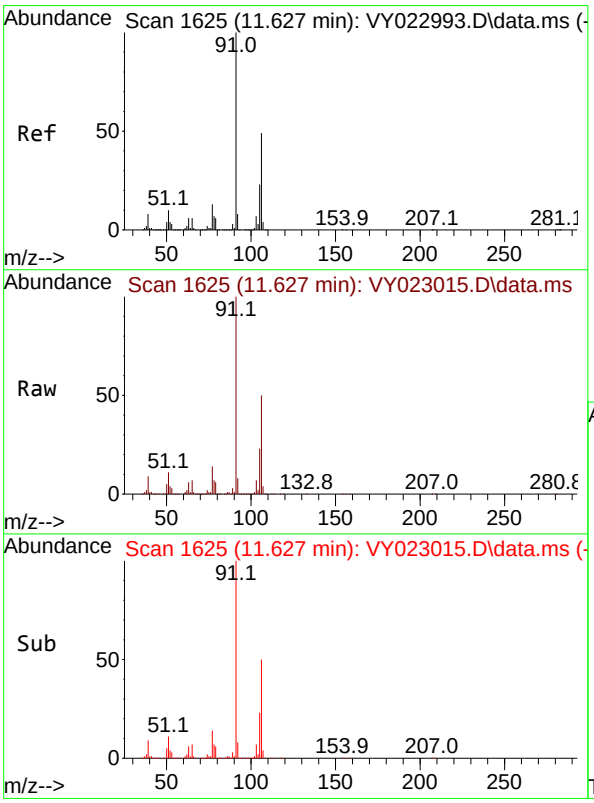
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

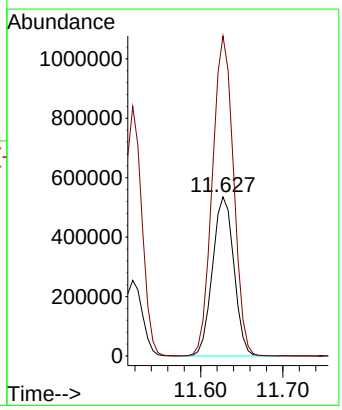
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

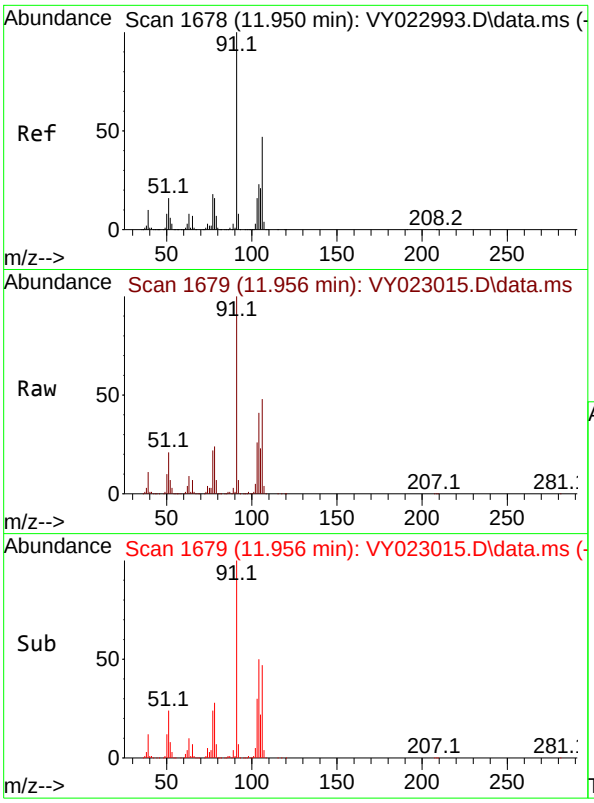


#68
m/p-Xylenes
Concen: 93.198 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:106 Resp: 966289

Ion	Ratio	Lower	Upper
106	100		
91	199.6	159.8	239.8





#69
o-Xylene
Concen: 47.267 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

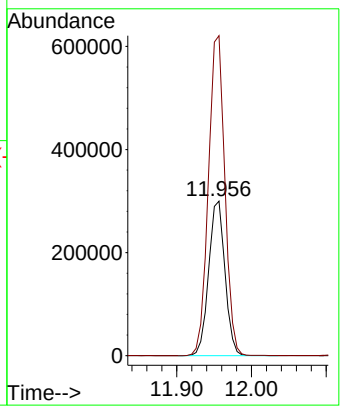
Tgt Ion:106 Resp: 45480

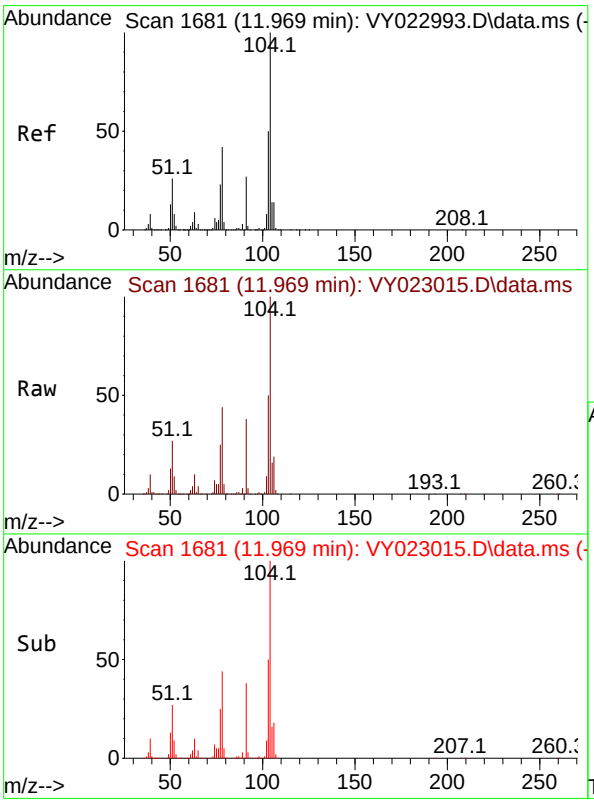
Ion	Ratio	Lower	Upper
106	100		
91	209.3	106.3	318.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

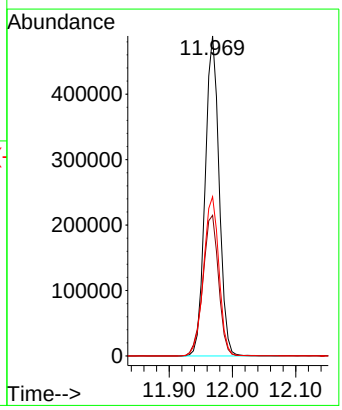


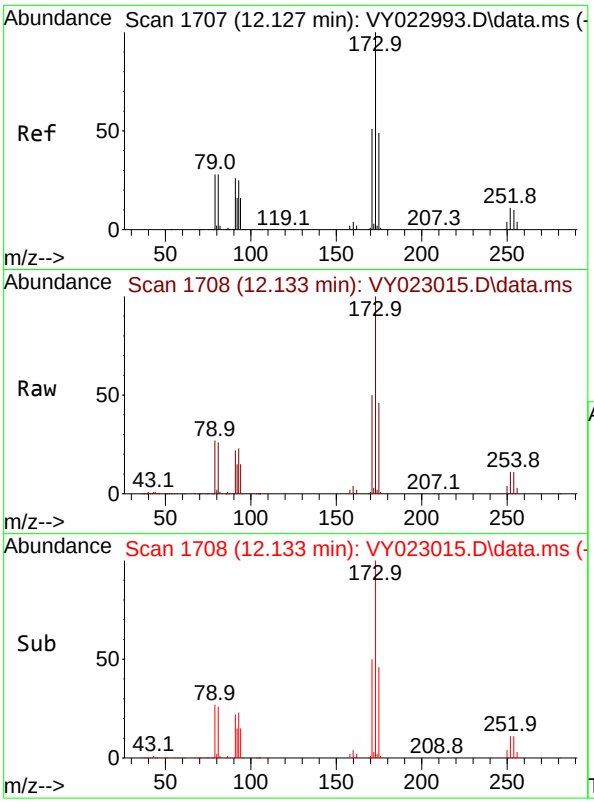


#70
Styrene
Concen: 47.820 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:104 Resp: 753693

Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.0	58.6
103	54.6	43.7	65.5





#71
Bromoform
Concen: 50.776 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

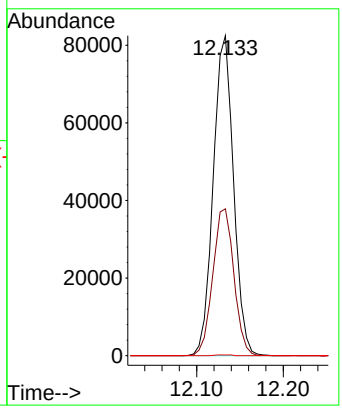
Tgt Ion:173 Resp: 13408

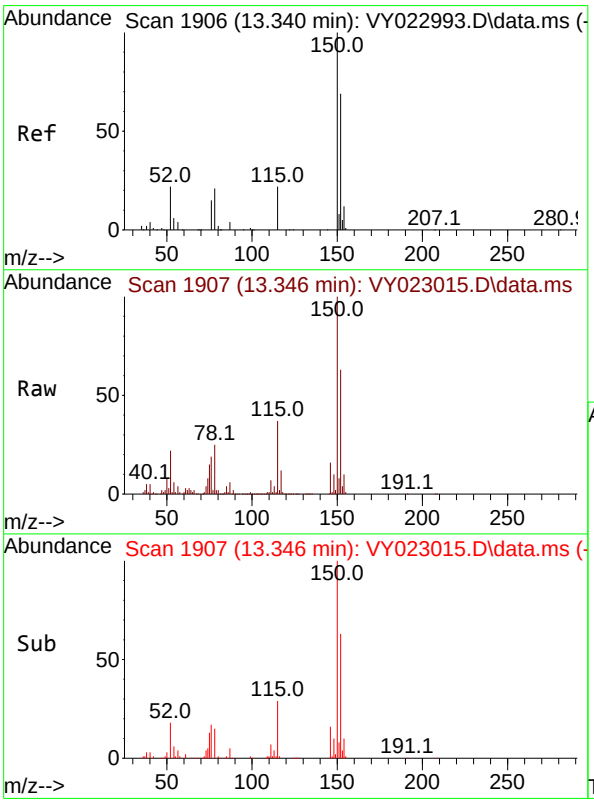
Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.6	73.8
254	0.2	0.2	0.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

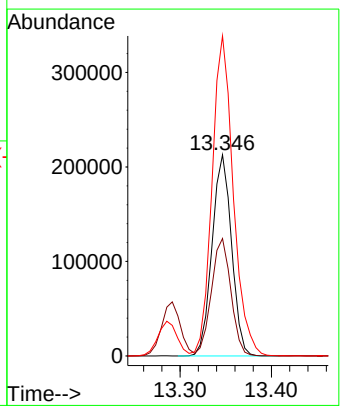


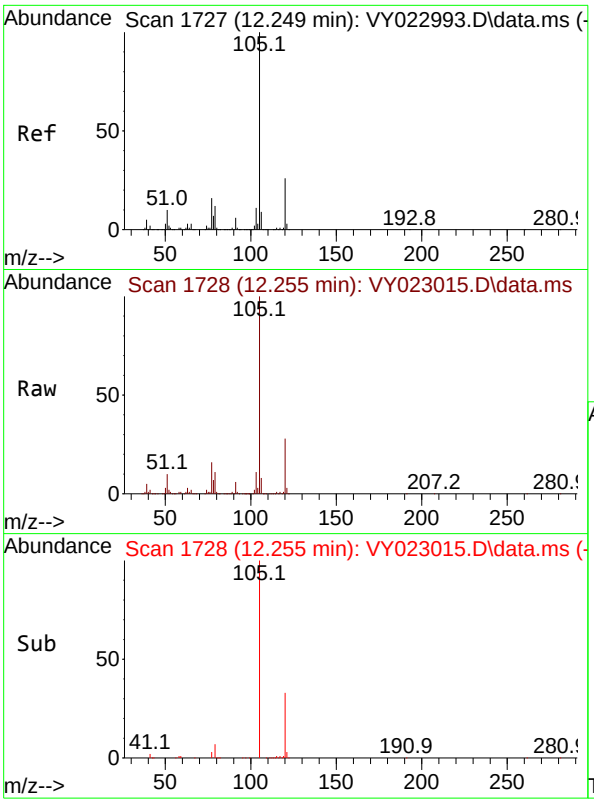


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:152 Resp: 315391

Ion	Ratio	Lower	Upper
152	100		
115	58.5	29.4	88.2
150	173.1	0.0	350.0

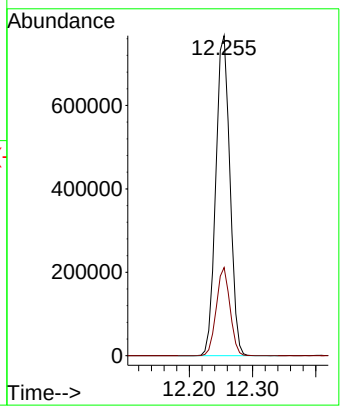




#73
Isopropylbenzene
Concen: 44.271 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 118378

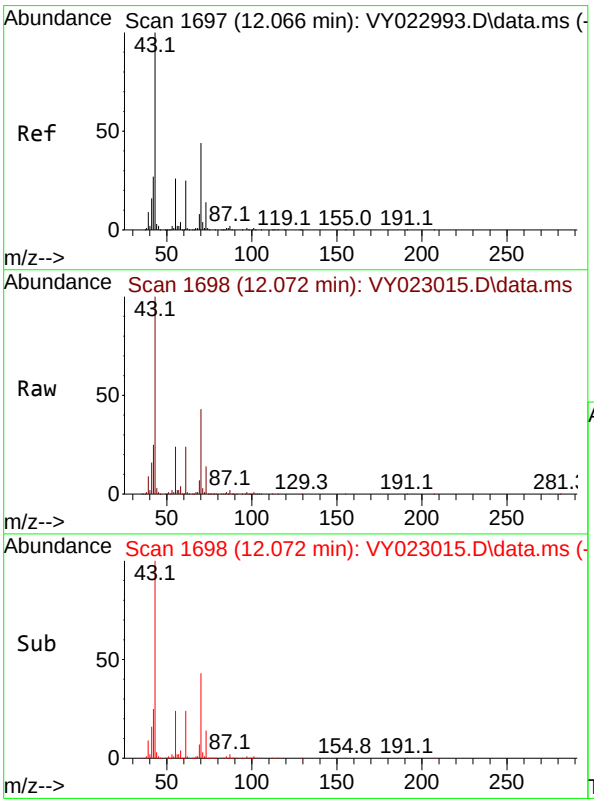
Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

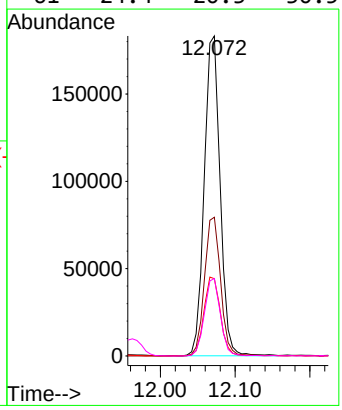
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

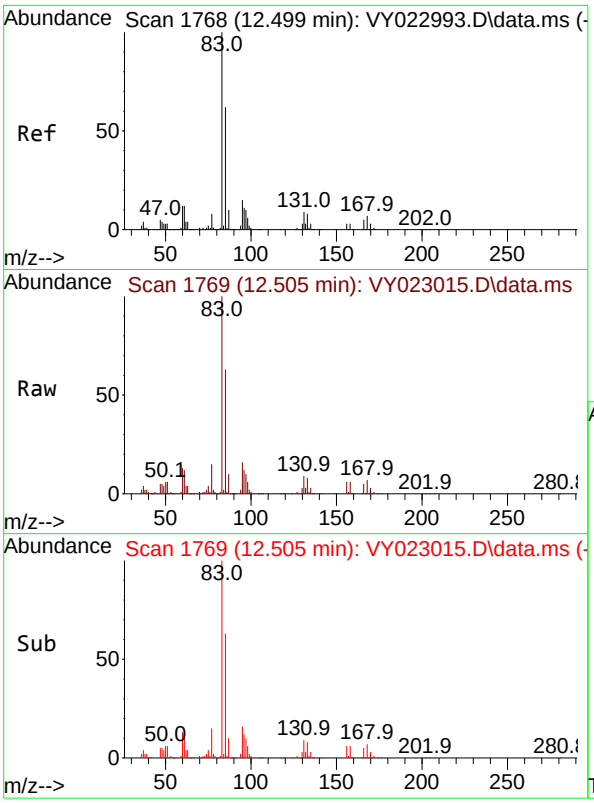


#74
N-amyl acetate
Concen: 53.395 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 269180

Ion	Ratio	Lower	Upper
43	100		
70	44.1	36.2	54.2
55	25.8	20.9	31.3
61	24.4	20.3	30.5

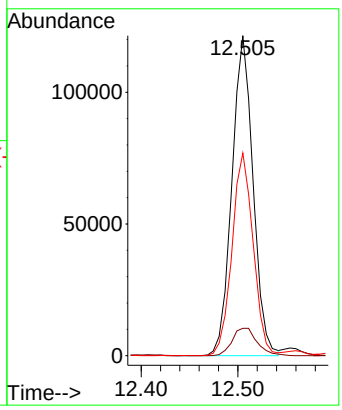




#75
1,1,2,2-Tetrachloroethane
Concen: 47.749 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 18476

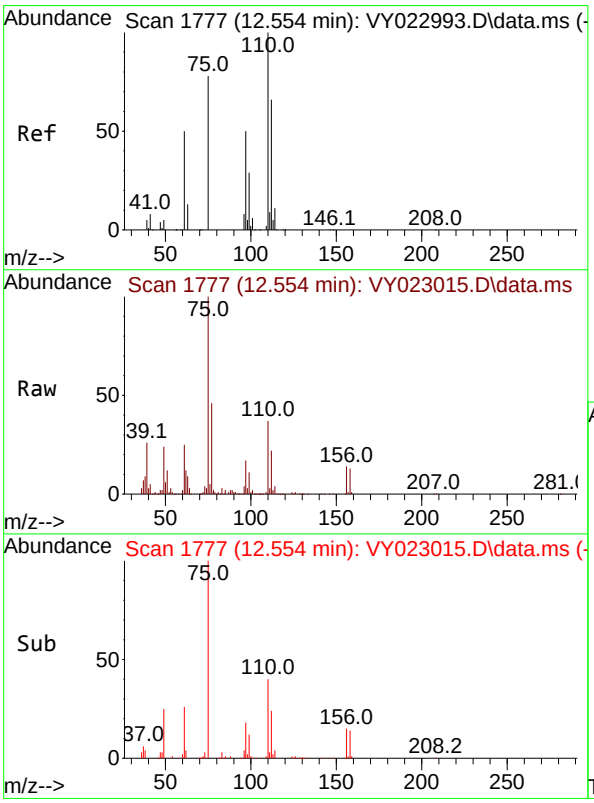
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	63.4	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

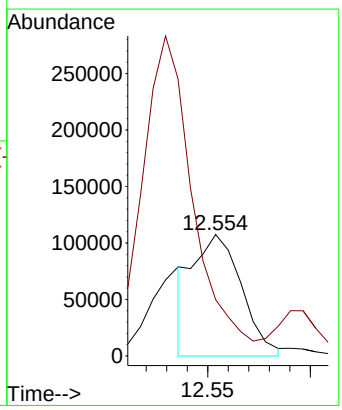
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

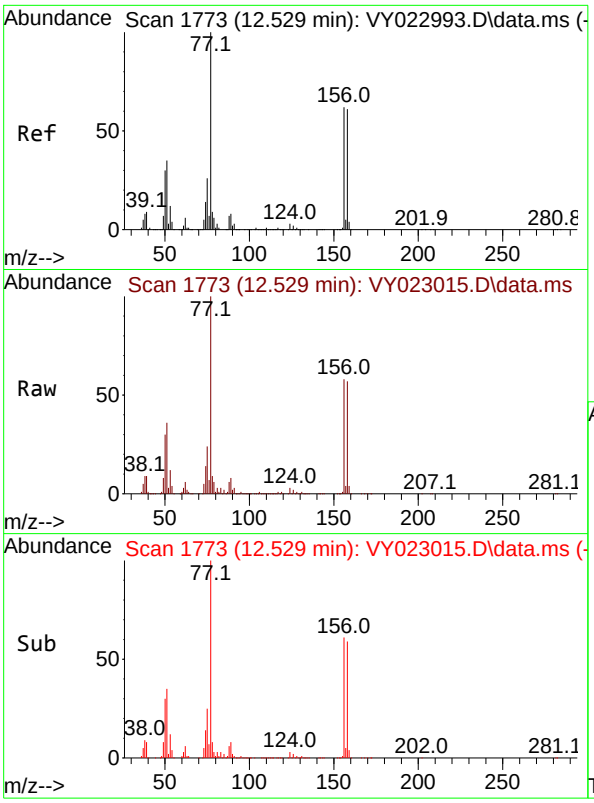


#76
1,2,3-Trichloropropane
Concen: 45.042 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 177017

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

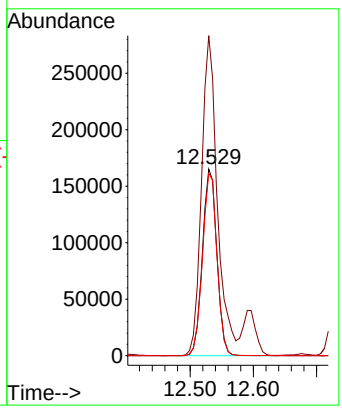




#77
Bromobenzene
Concen: 45.276 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:156 Resp: 26257

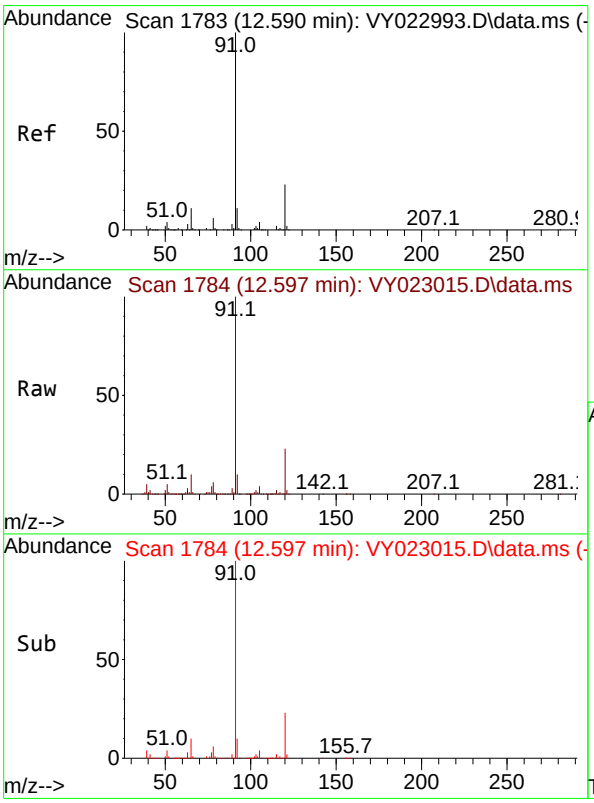
Ion	Ratio	Lower	Upper
156	100		
77	187.4	92.0	276.1
158	97.7	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

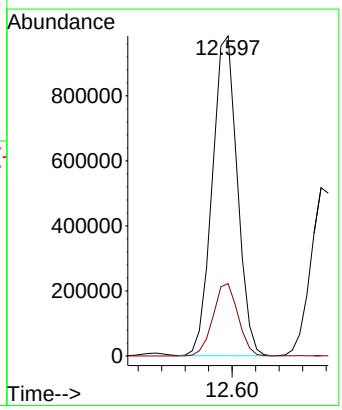
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

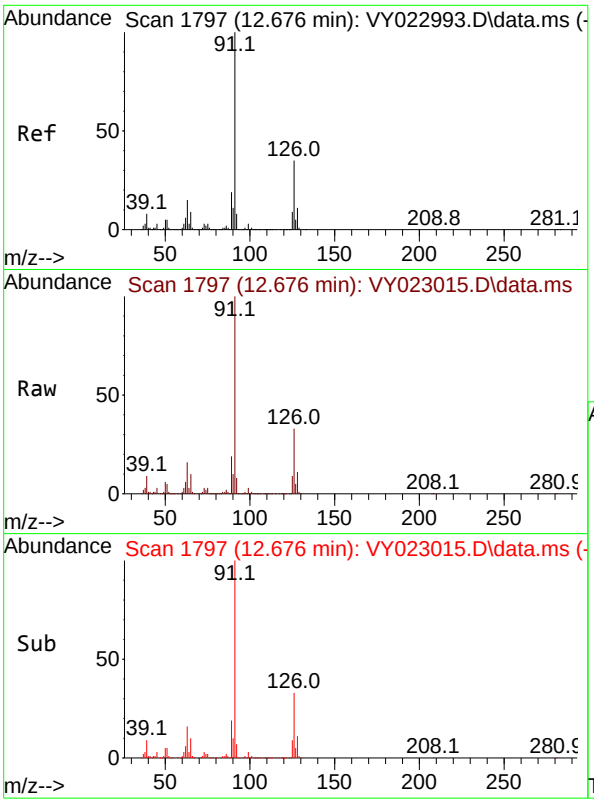


#78
n-propylbenzene
Concen: 45.698 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 1455137

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.8





#79
2-Chlorotoluene
Concen: 44.865 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

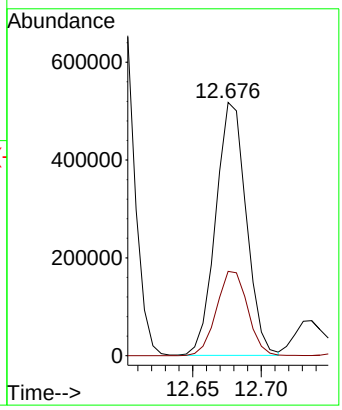
Tgt Ion: 91 Resp: 80348

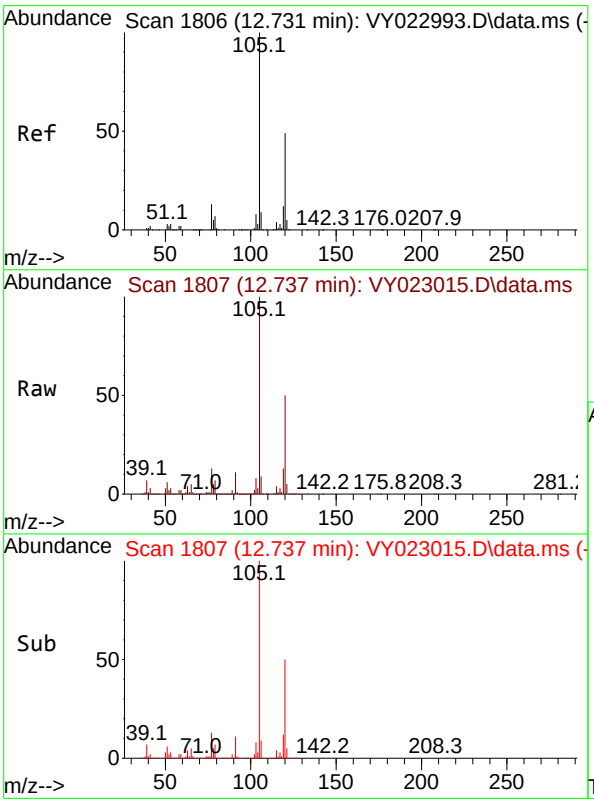
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

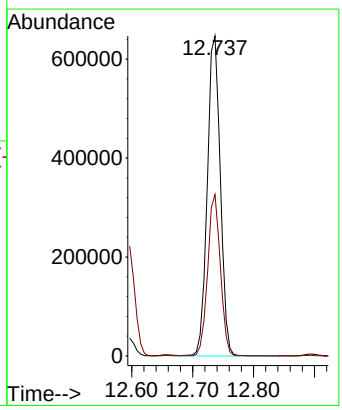


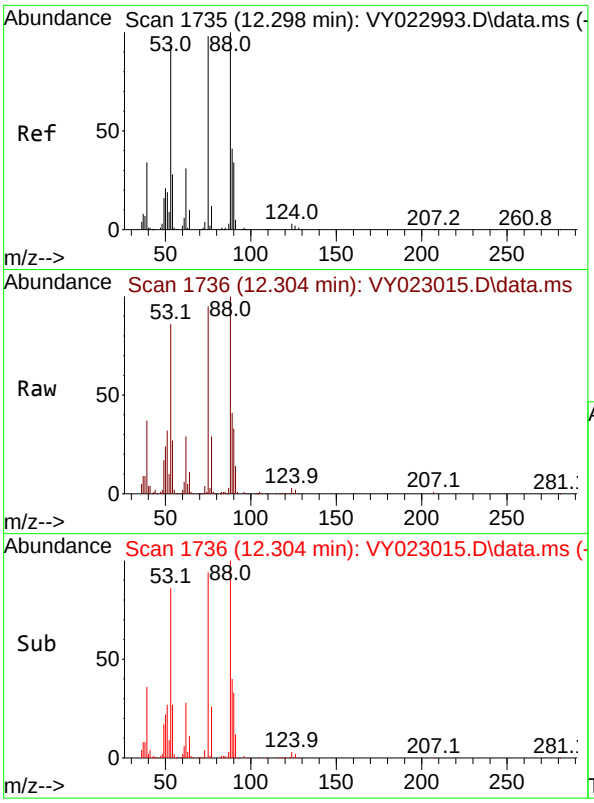


#80
1,3,5-Trimethylbenzene
Concen: 45.590 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 961475

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.6	73.8

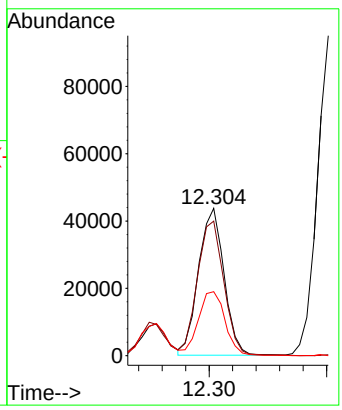




#81
trans-1,4-Dichloro-2-butene
Concen: 49.983 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 6595

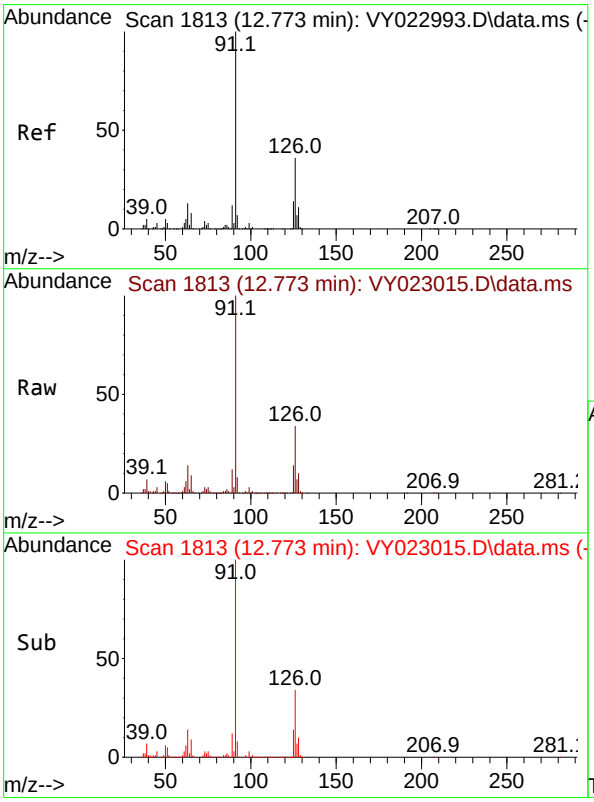
Ion	Ratio	Lower	Upper
75	100		
53	95.6	76.1	114.1
89	46.0	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

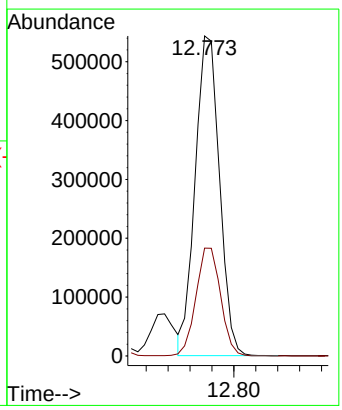
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

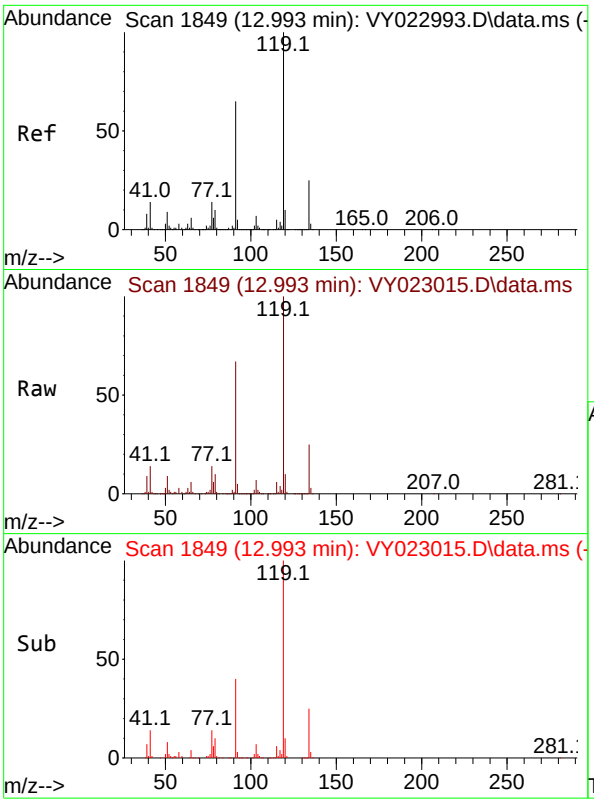


#82
4-Chlorotoluene
Concen: 46.371 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 837576

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.2	51.5





#83
tert-Butylbenzene
Concen: 45.312 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

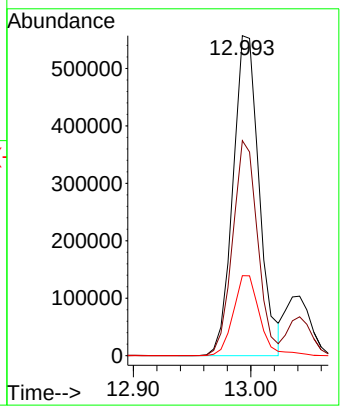
Tgt Ion:119 Resp: 86318

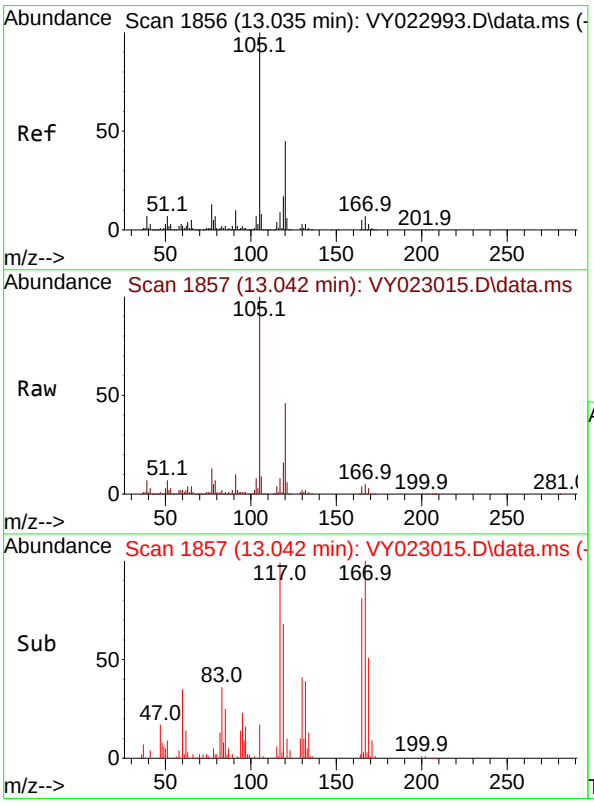
Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.0	96.2
134	25.4	12.6	37.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

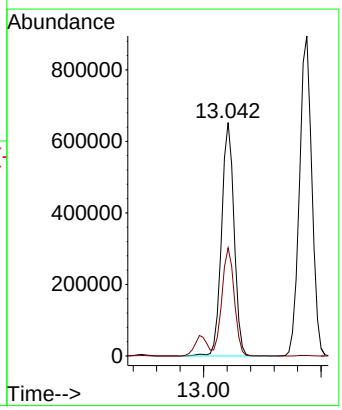


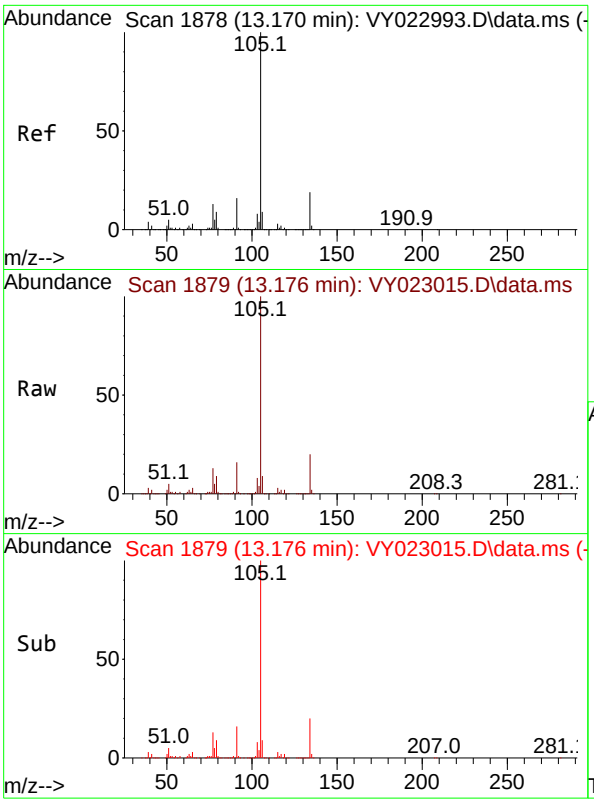


#84
1,2,4-Trimethylbenzene
Concen: 46.371 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 962658

Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.9	68.8





#85
sec-Butylbenzene
Concen: 45.684 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

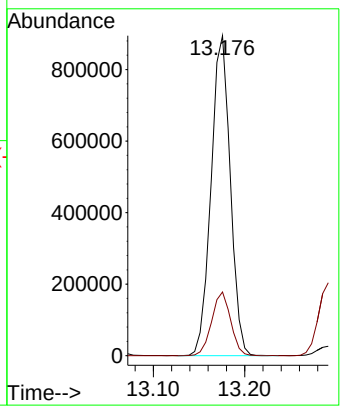
Tgt Ion:105 Resp: 130419

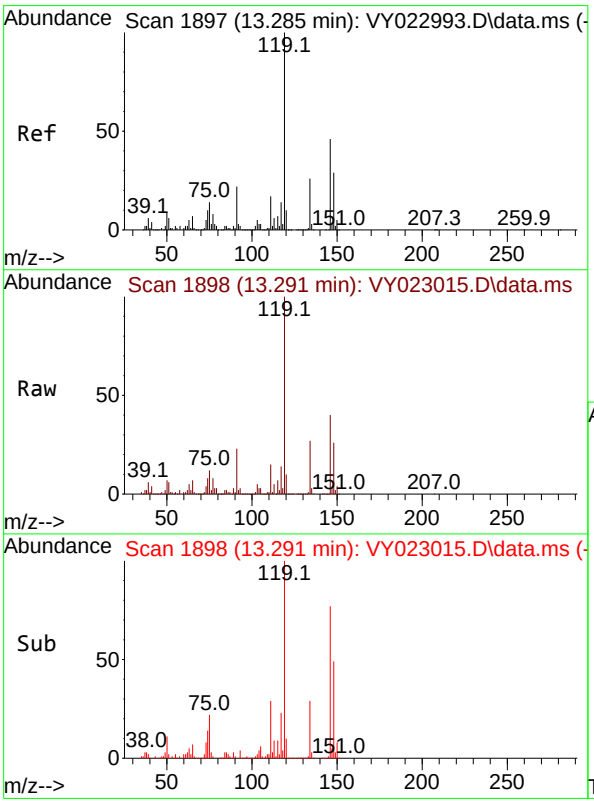
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

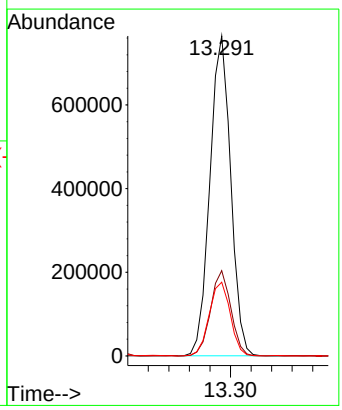


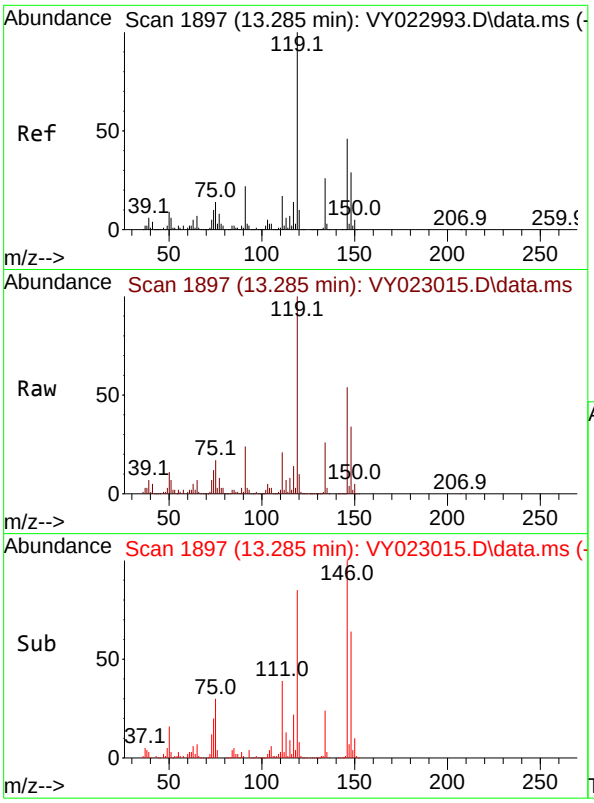


#86
p-Isopropyltoluene
Concen: 46.286 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:119 Resp: 1073149

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	23.4	11.4	34.1

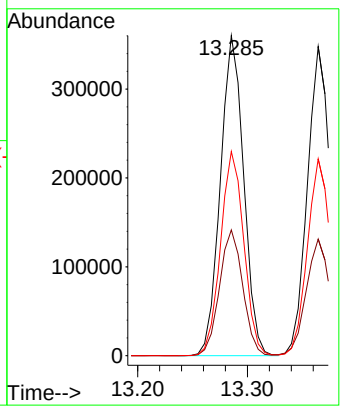




#87
1,3-Dichlorobenzene
Concen: 45.514 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 53268

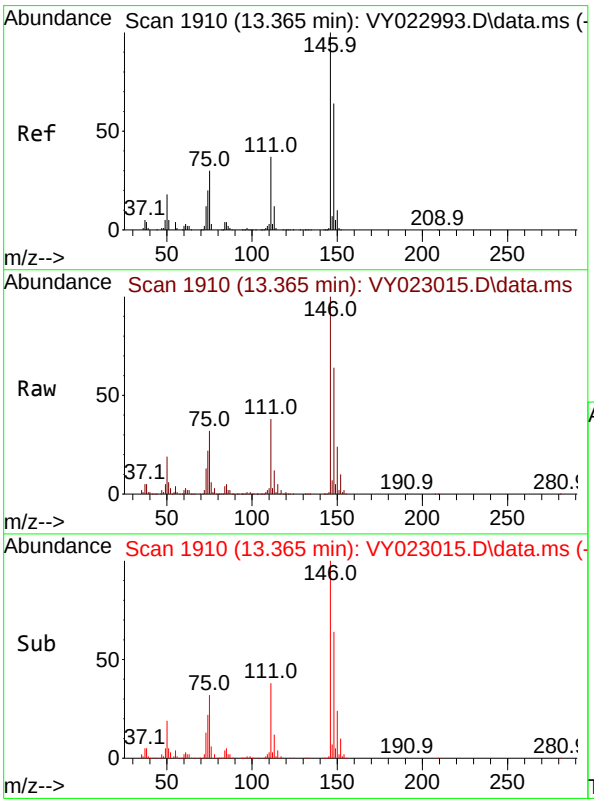
Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.8	59.3
148	63.7	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

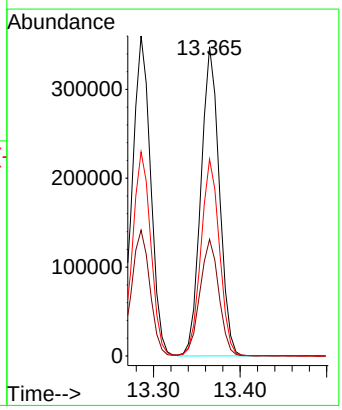
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

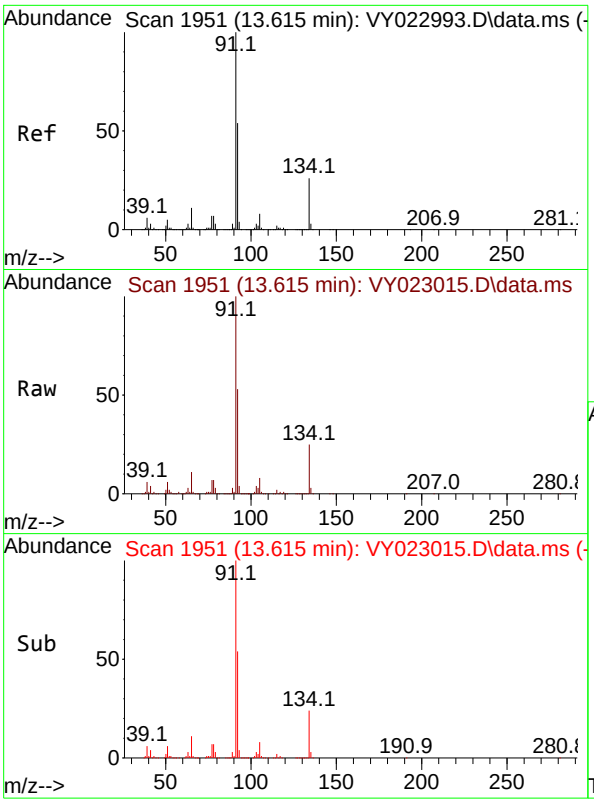


#88
1,4-Dichlorobenzene
Concen: 45.391 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 513938

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.2	57.6
148	63.9	31.9	95.5

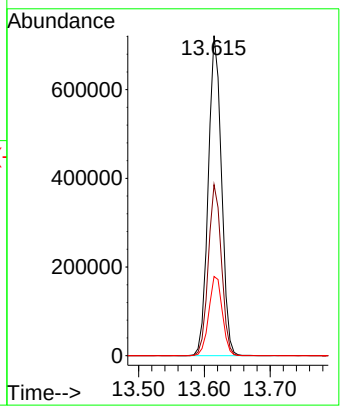




#89
n-Butylbenzene
Concen: 47.189 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 100958

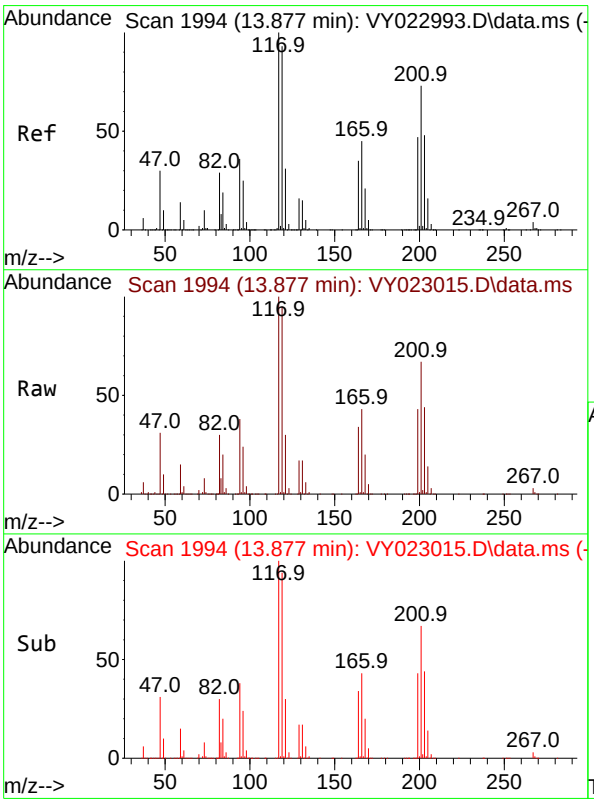
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.6	79.7
134	25.3	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

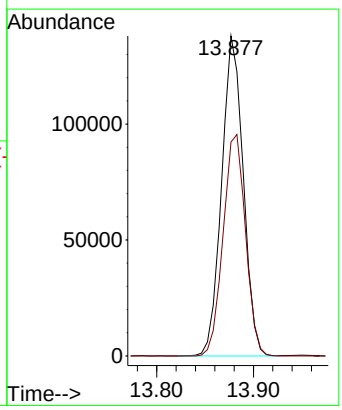
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

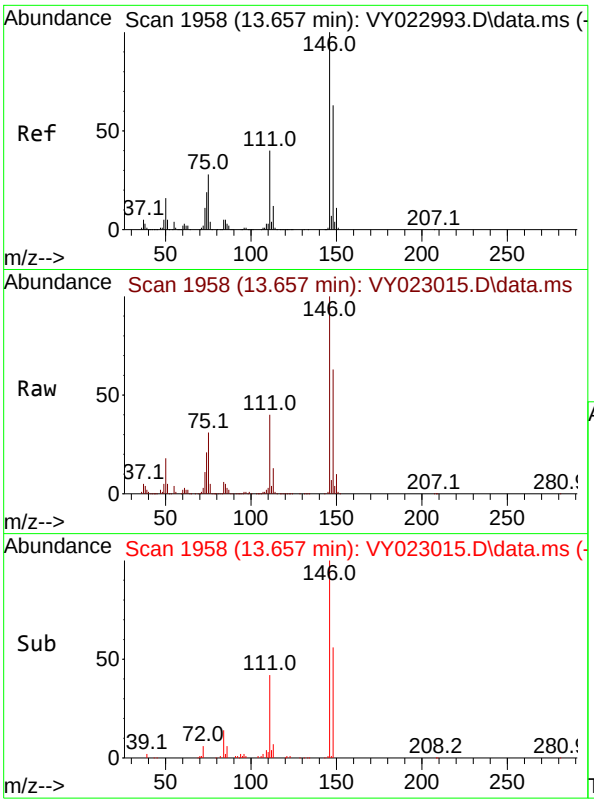


#90
Hexachloroethane
Concen: 44.550 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 213851

Ion	Ratio	Lower	Upper
117	100		
201	71.9	36.1	108.5

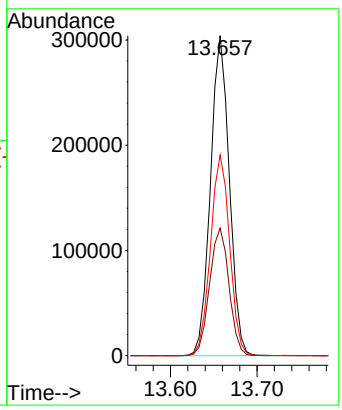




#91
1,2-Dichlorobenzene
Concen: 46.577 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 45982

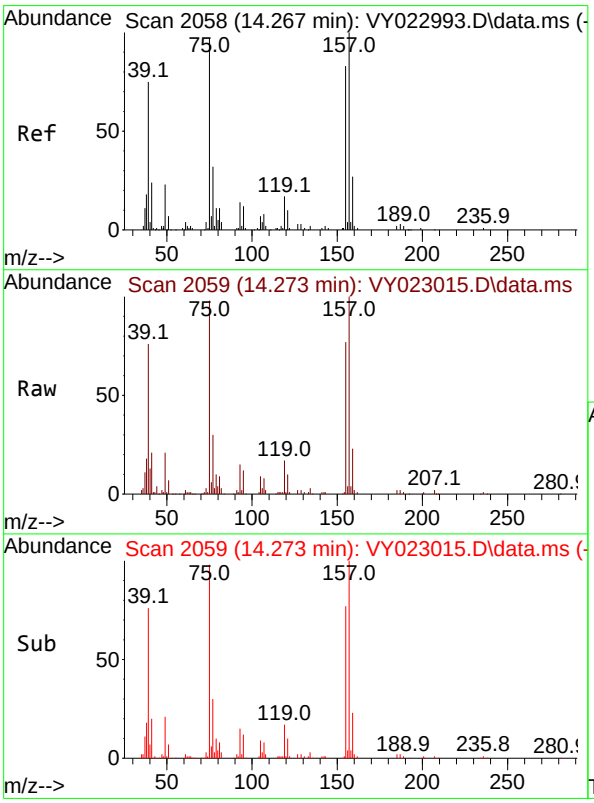
Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.3	61.0
148	63.7	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

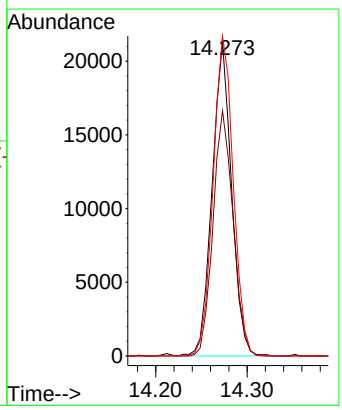
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

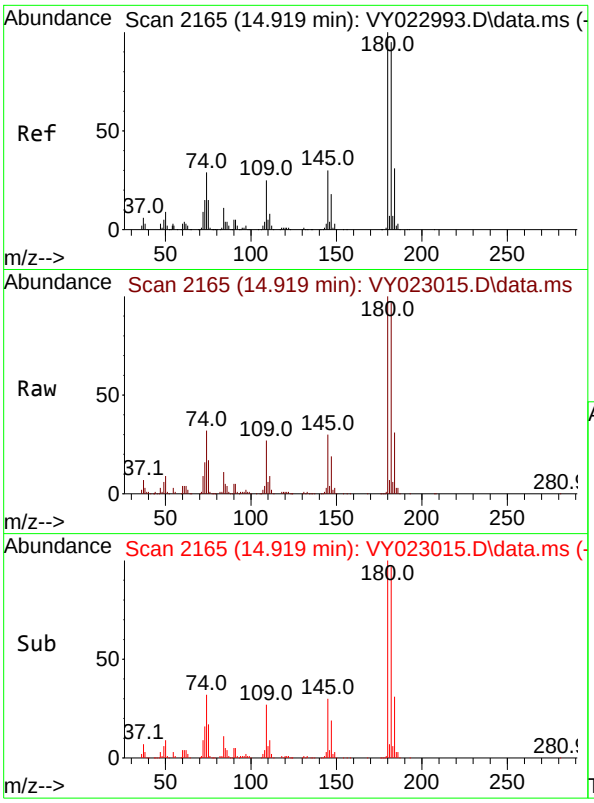


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.638 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 31393

Ion	Ratio	Lower	Upper
75	100		
155	81.0	42.8	128.3
157	105.8	54.3	162.9

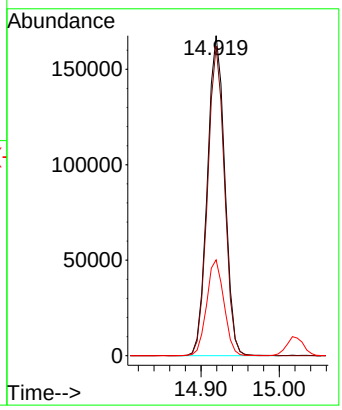




#93
1,2,4-Trichlorobenzene
Concen: 49.693 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:180 Resp: 25859

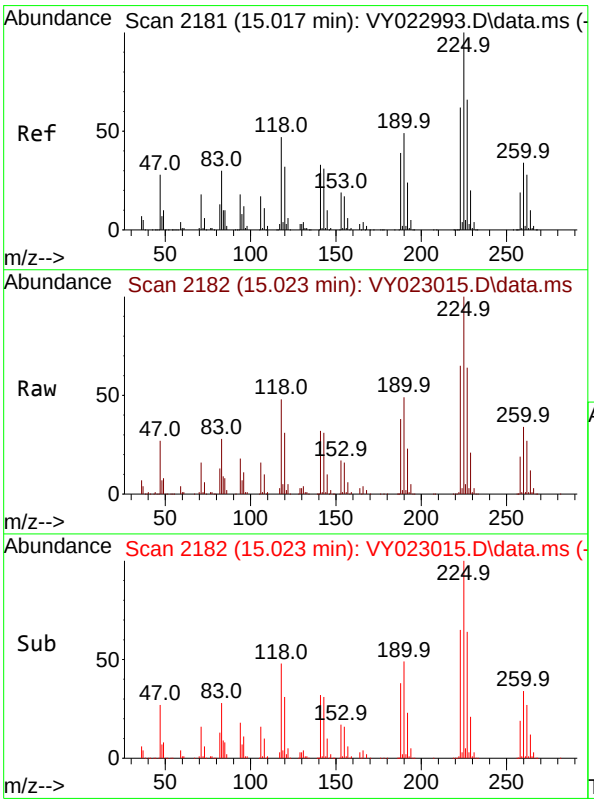
Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.5	142.5
145	29.7	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

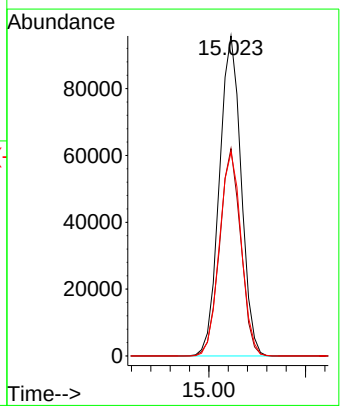
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

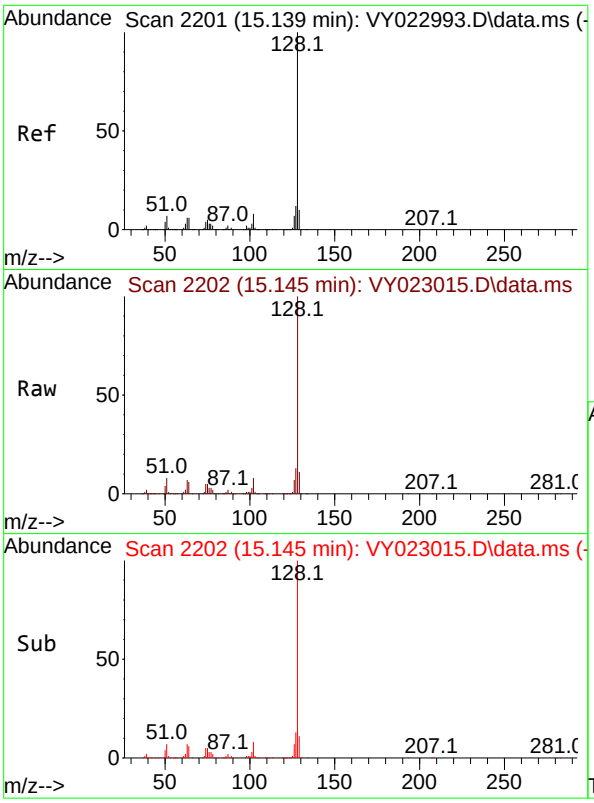


#94
Hexachlorobutadiene
Concen: 45.491 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:225 Resp: 149247

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.0
227	63.8	32.1	96.5

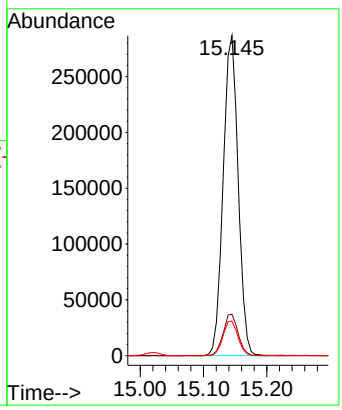




#95
Naphthalene
Concen: 56.375 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:128 Resp: 47053

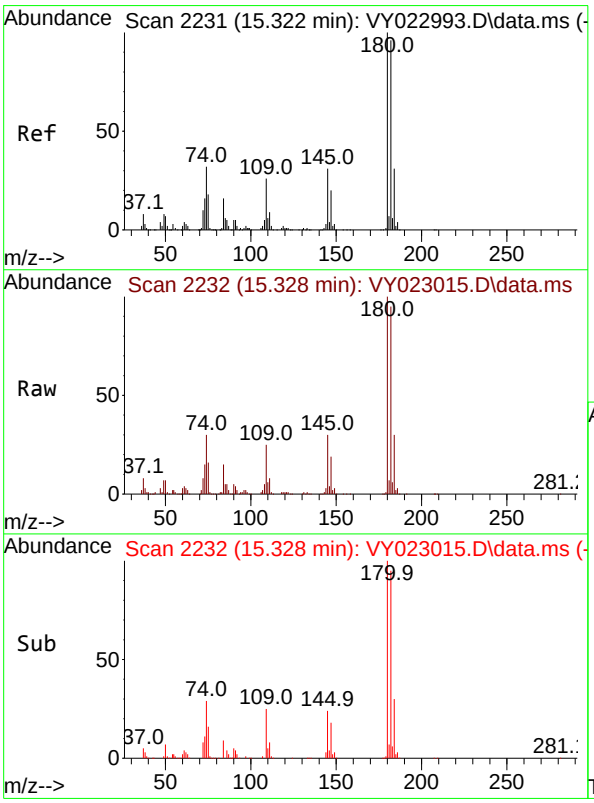
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.8	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

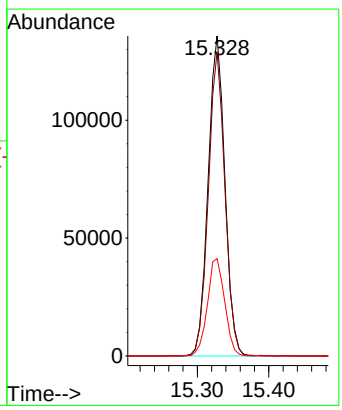
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.312 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:180 Resp: 220477

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.3	142.0
145	31.4	15.8	47.4



Sample Results: **VY023015.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
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: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	93	0.00
2	T	Dichlorodifluoromethane	0.425	0.351	17.4	89	0.00
3	P	Chloromethane	0.722	0.755	-4.6	114	0.00
4	C	Vinyl Chloride	0.915	0.869	5.0#	98	0.00
5	T	Bromomethane	0.660	0.651	1.4	109	0.00
6	T	Chloroethane	0.611	0.596	2.5	100	0.00
7	T	Trichlorofluoromethane	1.062	1.013	4.6	97	0.00
8	T	Diethyl Ether	0.278	0.254	8.6	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.558	0.492	11.8	91	0.00
10	T	Methyl Iodide	0.579	0.490	15.4	80	0.00
11	T	Tert butyl alcohol	0.031	0.034	-9.7	106	0.04
12	CM	1,1-Dichloroethene	0.531	0.469	11.7#	92	0.00
13	T	Acrolein	0.014	0.007	50.0#	89	0.00
14	T	Allyl chloride	0.809	0.750	7.3	94	0.00
15	T	Acrylonitrile	0.105	0.113	-7.6	107	0.00
16	T	Acetone	0.092	0.106	-15.2	127	0.01
17	T	Carbon Disulfide	1.610	1.413	12.2	91	0.00
18	T	Methyl Acetate	0.311	0.353	-13.5	102	0.00
19	T	Methyl tert-butyl Ether	1.274	1.265	0.7	99	0.00
20	T	Methylene Chloride	0.871	0.586	32.7#	90	0.00
21	T	trans-1,2-Dichloroethene	0.591	0.535	9.5	93	0.00
22	T	Diisopropyl ether	1.717	1.658	3.4	97	0.00
23	T	Vinyl Acetate	0.865	0.906	-4.7	104	0.00
24	P	1,1-Dichloroethane	1.079	0.992	8.1	93	0.00
25	T	2-Butanone	0.132	0.151	-14.4	114	0.00
26	T	2,2-Dichloropropane	0.945	0.880	6.9	95	0.00
27	T	cis-1,2-Dichloroethene	0.682	0.624	8.5	92	0.00
28	T	Bromochloromethane	0.418	0.413	1.2	96	0.00
29	T	Tetrahydrofuran	0.083	0.092	-10.8	105	0.00
30	C	Chloroform	1.088	0.998	8.3#	94	0.00
31	T	Cyclohexane	1.008	0.874	13.3	92	0.00
32	T	1,1,1-Trichloroethane	0.987	0.890	9.8	92	0.00
33	S	1,2-Dichloroethane-d4	0.506	0.497	1.8	97	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.317	0.294	7.3	92	0.00
36	T	1,1-Dichloropropene	0.500	0.459	8.2	92	0.00
37	T	Ethyl Acetate	0.186	0.195	-4.8	105	0.00
38	T	Carbon Tetrachloride	0.543	0.493	9.2	92	0.00
39	T	Methylcyclohexane	0.647	0.588	9.1	91	0.00
40	TM	Benzene	1.504	1.399	7.0	94	0.00
41	T	Methacrylonitrile	0.101	0.119	-17.8	113	0.00
42	TM	1,2-Dichloroethane	0.374	0.375	-0.3	99	0.00
43	T	Isopropyl Acetate	0.369	0.403	-9.2	104	0.00
44	TM	Trichloroethene	0.386	0.359	7.0	93	0.00
45	C	1,2-Dichloropropane	0.351	0.331	5.7#	96	0.00
46	T	Dibromomethane	0.182	0.181	0.5	98	0.00
47	T	Bromodichloromethane	0.502	0.480	4.4	96	0.00
48	T	Methyl methacrylate	0.178	0.198	-11.2	104	0.00

Sample Results: **VY023015.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
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: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	107	0.01
50	S	Toluene-d8	1.258	1.168	7.2	92	0.00
51	T	4-Methyl-2-Pentanone	0.187	0.216	-15.5	107	0.00
52	CM	Toluene	0.935	0.884	5.5#	94	0.00
53	T	t-1,3-Dichloropropene	0.431	0.440	-2.1	100	0.00
54	T	cis-1,3-Dichloropropene	0.519	0.504	2.9	97	0.00
55	T	1,1,2-Trichloroethane	0.239	0.238	0.4	99	0.00
56	T	Ethyl methacrylate	0.298	0.323	-8.4	101	0.00
57	T	1,3-Dichloropropane	0.412	0.416	-1.0	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.161	-10.3	97	0.00
59	T	2-Hexanone	0.123	0.147	-19.5	110	0.00
60	T	Dibromochloromethane	0.312	0.312	0.0	97	0.00
61	T	1,2-Dibromoethane	0.217	0.223	-2.8	100	0.00
62	S	4-Bromofluorobenzene	0.396	0.374	5.6	96	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.511	0.480	6.1	91	0.00
65	PM	Chlorobenzene	1.180	1.093	7.4	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.364	9.5	94	0.00
67	C	Ethyl Benzene	2.091	1.947	6.9#	94	0.00
68	T	m/p-Xylenes	0.802	0.748	6.7	94	0.00
69	T	o-Xylene	0.744	0.704	5.4	96	0.00
70	T	Styrene	1.219	1.166	4.3	96	0.00
71	P	Bromoform	0.204	0.207	-1.5	104	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	4.239	3.753	11.5	94	0.00
74	T	N-amyl acetate	0.799	0.853	-6.8	109	0.00
75	P	1,1,2,2-Tetrachloroethane	0.613	0.586	4.4	106	0.00
76	T	1,2,3-Trichloropropane	0.623	0.561	10.0	95	0.00
77	T	Bromobenzene	0.919	0.833	9.4	97	0.00
78	T	n-propylbenzene	5.048	4.614	8.6	96	0.00
79	T	2-Chlorotoluene	2.839	2.548	10.3	96	0.00
80	T	1,3,5-Trimethylbenzene	3.343	3.049	8.8	96	0.00
81	T	trans-1,4-Dichloro-2-butene	0.209	0.209	0.0	106	0.00
82	T	4-Chlorotoluene	2.864	2.656	7.3	99	0.00
83	T	tert-Butylbenzene	3.020	2.737	9.4	95	0.00
84	T	1,2,4-Trimethylbenzene	3.291	3.052	7.3	98	0.00
85	T	sec-Butylbenzene	4.526	4.135	8.6	96	0.00
86	T	p-Isopropyltoluene	3.676	3.403	7.4	97	0.00
87	T	1,3-Dichlorobenzene	1.855	1.689	8.9	98	0.00
88	T	1,4-Dichlorobenzene	1.795	1.630	9.2	98	0.00
89	T	n-Butylbenzene	3.392	3.201	5.6	99	0.00
90	T	Hexachloroethane	0.761	0.678	10.9	96	0.00
91	T	1,2-Dichlorobenzene	1.565	1.458	6.8	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.091	0.100	-9.9	112	0.00
93	T	1,2,4-Trichlorobenzene	0.825	0.820	0.6	105	0.00
94	T	Hexachlorobutadiene	0.520	0.473	9.0	101	0.00
95	T	Naphthalene	1.323	1.492	-12.8	109	0.00

Sample Results: **VY023015.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
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: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	0.681	0.699	-2.6	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023015.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
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: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	93	0.00
2	T	Dichlorodifluoromethane	50.000	41.324	17.4	89	0.00
3	P	Chloromethane	50.000	52.299	-4.6	114	0.00
4	C	Vinyl Chloride	50.000	47.523	5.0#	98	0.00
5	T	Bromomethane	50.000	49.321	1.4	109	0.00
6	T	Chloroethane	50.000	48.816	2.4	100	0.00
7	T	Trichlorofluoromethane	50.000	47.699	4.6	97	0.00
8	T	Diethyl Ether	50.000	45.781	8.4	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.142	11.7	91	0.00
10	T	Methyl Iodide	50.000	42.309	15.4	80	0.00
11	T	Tert butyl alcohol	250.000	274.768	-9.9	106	0.04
12	CM	1,1-Dichloroethene	50.000	44.137	11.7#	92	0.00
13	T	Acrolein	250.000	121.709	51.3#	89	0.00
14	T	Allyl chloride	50.000	46.315	7.4	94	0.00
15	T	Acrylonitrile	250.000	269.039	-7.6	107	0.00
16	T	Acetone	250.000	287.564	-15.0	127	0.01
17	T	Carbon Disulfide	50.000	43.871	12.3	91	0.00
18	T	Methyl Acetate	50.000	56.897	-13.8	102	0.00
19	T	Methyl tert-butyl Ether	50.000	49.645	0.7	99	0.00
20	T	Methylene Chloride	50.000	44.522	11.0	90	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.236	9.5	93	0.00
22	T	Diisopropyl ether	50.000	48.287	3.4	97	0.00
23	T	Vinyl Acetate	250.000	261.701	-4.7	104	0.00
24	P	1,1-Dichloroethane	50.000	45.968	8.1	93	0.00
25	T	2-Butanone	250.000	286.473	-14.6	114	0.00
26	T	2,2-Dichloropropane	50.000	46.522	7.0	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.750	8.5	92	0.00
28	T	Bromochloromethane	50.000	49.320	1.4	96	0.00
29	T	Tetrahydrofuran	250.000	275.830	-10.3	105	0.00
30	C	Chloroform	50.000	45.883	8.2#	94	0.00
31	T	Cyclohexane	50.000	43.348	13.3	92	0.00
32	T	1,1,1-Trichloroethane	50.000	45.068	9.9	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.053	1.9	97	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	46.314	7.4	92	0.00
36	T	1,1-Dichloropropene	50.000	45.967	8.1	92	0.00
37	T	Ethyl Acetate	50.000	52.544	-5.1	105	0.00
38	T	Carbon Tetrachloride	50.000	45.380	9.2	92	0.00
39	T	Methylcyclohexane	50.000	45.487	9.0	91	0.00
40	TM	Benzene	50.000	46.502	7.0	94	0.00
41	T	Methacrylonitrile	50.000	59.045	-18.1	113	0.00
42	TM	1,2-Dichloroethane	50.000	50.055	-0.1	99	0.00
43	T	Isopropyl Acetate	50.000	54.629	-9.3	104	0.00
44	TM	Trichloroethene	50.000	46.410	7.2	93	0.00
45	C	1,2-Dichloropropane	50.000	47.131	5.7#	96	0.00
46	T	Dibromomethane	50.000	49.790	0.4	98	0.00
47	T	Bromodichloromethane	50.000	47.861	4.3	96	0.00
48	T	Methyl methacrylate	50.000	55.518	-11.0	104	0.00

Sample Results: **VY023015.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
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: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	1129.451	-12.9	107	0.01
50	S	Toluene-d8	50.000	46.437	7.1	92	0.00
51	T	4-Methyl-2-Pentanone	250.000	288.338	-15.3	107	0.00
52	CM	Toluene	50.000	47.287	5.4#	94	0.00
53	T	t-1,3-Dichloropropene	50.000	51.095	-2.2	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.527	2.9	97	0.00
55	T	1,1,2-Trichloroethane	50.000	49.876	0.2	99	0.00
56	T	Ethyl methacrylate	50.000	54.291	-8.6	101	0.00
57	T	1,3-Dichloropropane	50.000	50.497	-1.0	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	275.393	-10.2	97	0.00
59	T	2-Hexanone	250.000	298.947	-19.6	110	0.00
60	T	Dibromochloromethane	50.000	49.953	0.1	97	0.00
61	T	1,2-Dibromoethane	50.000	51.415	-2.8	100	0.00
62	S	4-Bromofluorobenzene	50.000	47.233	5.5	96	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	46.956	6.1	91	0.00
65	PM	Chlorobenzene	50.000	46.305	7.4	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	45.267	9.5	94	0.00
67	C	Ethyl Benzene	50.000	46.541	6.9#	94	0.00
68	T	m/p-Xylenes	100.000	93.198	6.8	94	0.00
69	T	o-Xylene	50.000	47.267	5.5	96	0.00
70	T	Styrene	50.000	47.820	4.4	96	0.00
71	P	Bromoform	50.000	50.776	-1.6	104	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73	T	Isopropylbenzene	50.000	44.271	11.5	94	0.00
74	T	N-amyl acetate	50.000	53.395	-6.8	109	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.749	4.5	106	0.00
76	T	1,2,3-Trichloropropane	50.000	45.042	9.9	95	0.00
77	T	Bromobenzene	50.000	45.276	9.4	97	0.00
78	T	n-propylbenzene	50.000	45.698	8.6	96	0.00
79	T	2-Chlorotoluene	50.000	44.865	10.3	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	45.590	8.8	96	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.983	0.0	106	0.00
82	T	4-Chlorotoluene	50.000	46.371	7.3	99	0.00
83	T	tert-Butylbenzene	50.000	45.312	9.4	95	0.00
84	T	1,2,4-Trimethylbenzene	50.000	46.371	7.3	98	0.00
85	T	sec-Butylbenzene	50.000	45.684	8.6	96	0.00
86	T	p-Isopropyltoluene	50.000	46.286	7.4	97	0.00
87	T	1,3-Dichlorobenzene	50.000	45.514	9.0	98	0.00
88	T	1,4-Dichlorobenzene	50.000	45.391	9.2	98	0.00
89	T	n-Butylbenzene	50.000	47.189	5.6	99	0.00
90	T	Hexachloroethane	50.000	44.550	10.9	96	0.00
91	T	1,2-Dichlorobenzene	50.000	46.577	6.8	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.638	-9.3	112	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.693	0.6	105	0.00
94	T	Hexachlorobutadiene	50.000	45.491	9.0	101	0.00
95	T	Naphthalene	50.000	56.375	-12.8	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
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: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.312	-2.6	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VY023037.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: NOBI03

Lab Code: ACE | SDG No.: Q2639

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/21/2025 19:16

Lab File ID: VY023037.D | Init. Calib. Date(s): 07/18/2025 07/18/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 10:08 12:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.425	0.348		-18.12	50
Chloromethane	0.722	0.739	0.1	2.36	50
Vinyl Chloride	0.915	0.936		2.3	50
Bromomethane	0.660	0.705		6.82	50
Chloroethane	0.611	0.661		8.18	50
Tetrahydrofuran	0.083	0.092		10.84	50
Trichlorofluoromethane	1.062	0.980		-7.72	50
1,1,2-Trichlorotrifluoroethane	0.558	0.495		-11.29	50
1,1-Dichloroethene	0.531	0.477		-10.17	50
Acrylonitrile	0.105	0.115		9.52	50
Acetone	0.092	0.083		-9.78	50
Carbon Disulfide	1.610	1.461		-9.26	50
Methyl tert-butyl Ether	1.274	1.332		4.55	50
Methylene Chloride	0.871	0.672		-22.85	50
trans-1,2-Dichloroethene	0.591	0.562		-4.91	50
1,1-Dichloroethane	1.079	1.069	0.1	-0.93	50
2-Butanone	0.132	0.137		3.79	50
Carbon Tetrachloride	0.543	0.495		-8.84	50
2,2-Dichloropropane	0.945	0.820		-13.23	50
cis-1,2-Dichloroethene	0.682	0.670		-1.76	50
Chloroform	1.088	1.112		2.21	50
1,1,1-Trichloroethane	0.987	0.947		-4.05	50
1,1-Dichloropropene	0.500	0.460		-8	50
Benzene	1.504	1.467		-2.46	50
1,2-Dichloroethane	0.374	0.391		4.55	50
Trichloroethene	0.386	0.350		-9.33	50
1,2-Dichloropropane	0.351	0.345		-1.71	50
Dibromomethane	0.182	0.186		2.2	50
Bromodichloromethane	0.502	0.504		0.4	50
4-Methyl-2-Pentanone	0.187	0.206		10.16	50
Toluene	0.935	0.908		-2.89	50
t-1,3-Dichloropropene	0.431	0.430		-0.23	50
cis-1,3-Dichloropropene	0.519	0.516		-0.58	50
1,1,2-Trichloroethane	0.239	0.244		2.09	50
1,3-Dichloropropane	0.412	0.430		4.37	50
2-Hexanone	0.123	0.135		9.76	50
Dibromochloromethane	0.312	0.322		3.2	50
1,2-Dibromoethane	0.217	0.225		3.69	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VY023037.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: NOBI03
Lab Code: ACE
SDG No.: Q2639
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/21/2025 19:16
Lab File ID: VY023037.D
Init. Calib. Date(s): 07/18/2025 07/18/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 10:08 12:49
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Tetrachloroethene	0.511	0.431		-15.66	50
Chlorobenzene	1.180	1.106	0.3	-6.27	50
1,1,1,2-Tetrachloroethane	0.402	0.384		-4.48	50
Ethyl Benzene	2.091	1.973		-5.64	50
m/p-Xylenes	0.802	0.758		-5.49	50
o-Xylene	0.744	0.714		-4.03	50
Styrene	1.219	1.216		-0.25	50
Bromoform	0.204	0.201	0.1	-1.47	50
Isopropylbenzene	4.239	3.693		-12.88	50
1,1,2,2-Tetrachloroethane	0.613	0.605	0.3	-1.3	50
1,2,3-Trichloropropane	0.623	0.482		-22.63	50
Bromobenzene	0.919	0.829		-9.79	50
n-propylbenzene	5.048	4.517		-10.52	50
2-Chlorotoluene	2.839	2.513		-11.48	50
1,3,5-Trimethylbenzene	3.343	3.018		-9.72	50
4-Chlorotoluene	2.864	2.625		-8.35	50
tert-Butylbenzene	3.020	2.670		-11.59	50
1,2,4-Trimethylbenzene	3.291	3.028		-7.99	50
sec-Butylbenzene	4.526	4.019		-11.2	50
p-Isopropyltoluene	3.676	3.297		-10.31	50
1,3-Dichlorobenzene	1.855	1.655		-10.78	50
1,4-Dichlorobenzene	1.795	1.609		-10.36	50
n-Butylbenzene	3.392	3.081		-9.17	50
1,2-Dichlorobenzene	1.565	1.442		-7.86	50
1,2-Dibromo-3-Chloropropane	0.091	0.094		3.3	50
1,2,4-Trichlorobenzene	0.825	0.751		-8.97	50
Hexachlorobutadiene	0.520	0.442		-15	50
1,2,3-Trichlorobenzene	0.681	0.635		-6.76	50
1,2-Dichloroethane-d4	0.506	0.550		8.7	50
Dibromofluoromethane	0.317	0.310		-2.21	50
Toluene-d8	1.258	1.233		-1.99	50
4-Bromofluorobenzene	0.396	0.394		-0.5	50
trans-1,4-Dichloro-2-butene	0.209	0.184		-11.96	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\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	364935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	608629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	534345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	267706	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	200633	54.308	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.620%			
35) Dibromofluoromethane	7.634	113	188725	48.883	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.760%			
50) Toluene-d8	10.103	98	750336	49.009	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.020%			
62) 4-Bromofluorobenzene	12.402	95	239984	49.795	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	126982	40.979	ug/l	98
3) Chloromethane	2.068	50	269659	51.179	ug/l	98
4) Vinyl Chloride	2.202	62	341701	51.189	ug/l	100
5) Bromomethane	2.592	94	257125	53.371	ug/l	99
6) Chloroethane	2.733	64	241112	54.083	ug/l	95
7) Trichlorofluoromethane	3.056	101	357561	46.144	ug/l	99
8) Diethyl Ether	3.452	74	97187	47.921	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	180521	44.347	ug/l	99
10) Methyl Iodide	4.001	142	210246	49.718	ug/l	100
11) Tert butyl alcohol	4.860	59	59487	266.251	ug/l	100
12) 1,1-Dichloroethene	3.787	96	174127	44.904	ug/l	100
13) Acrolein	3.653	56	11930	113.632	ug/l	97
14) Allyl chloride	4.379	41	278218	47.094	ug/l	97
15) Acrylonitrile	5.055	53	209182	272.310	ug/l	99
16) Acetone	3.867	43	152093	227.117	ug/l	99
17) Carbon Disulfide	4.104	76	533311	45.378	ug/l	99
18) Methyl Acetate	4.385	43	153573	67.737	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	486107	52.263	ug/l	100
20) Methylene Chloride	4.610	84	245177	52.461	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	204974	47.486	ug/l	96
22) Diisopropyl ether	6.013	45	645325	51.489	ug/l	96
23) Vinyl Acetate	5.958	43	1585664	251.092	ug/l	100
24) 1,1-Dichloroethane	5.909	63	390117	49.557	ug/l	99
25) 2-Butanone	6.890	43	249667	259.880	ug/l	99
26) 2,2-Dichloropropane	6.884	77	299317	43.384	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	244418	49.131	ug/l	99
28) Bromochloromethane	7.244	49	163732	53.625	ug/l	98
29) Tetrahydrofuran	7.256	42	167649	275.629	ug/l	98
30) Chloroform	7.421	83	405722	51.090	ug/l	98
31) Cyclohexane	7.701	56	318510	43.302	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	345470	47.946	ug/l	98
36) 1,1-Dichloropropene	7.829	75	279833	46.015	ug/l	100
37) Ethyl Acetate	6.982	43	110808	49.061	ug/l	100
38) Carbon Tetrachloride	7.817	117	300995	45.558	ug/l	98
39) Methylcyclohexane	9.103	83	347320	44.125	ug/l	99
40) Benzene	8.079	78	892923	48.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	66052	53.684	ug/l		99
42) 1,2-Dichloroethane	8.158	62	237723	52.184	ug/l		99
43) Isopropyl Acetate	8.195	43	232858	51.904	ug/l	#	86
44) Trichloroethene	8.860	130	213038	45.298	ug/l		91
45) 1,2-Dichloropropane	9.140	63	209857	49.079	ug/l		95
46) Dibromomethane	9.225	93	113255	51.242	ug/l		99
47) Bromodichloromethane	9.420	83	306564	50.179	ug/l		98
48) Methyl methacrylate	9.219	41	120235	55.511	ug/l		98
49) 1,4-Dioxane	9.225	88	25465	1093.044	ug/l		90
51) 4-Methyl-2-Pentanone	9.994	43	625368	274.629	ug/l		99
52) Toluene	10.170	92	552862	48.565	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	261758	49.912	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	314351	49.731	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	148571	51.144	ug/l		97
56) Ethyl methacrylate	10.439	69	192668	53.131	ug/l		99
57) 1,3-Dichloropropane	10.713	76	261483	52.107	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	491519	276.893	ug/l		100
59) 2-Hexanone	10.756	43	412272	275.436	ug/l		100
60) Dibromochloromethane	10.908	129	196174	51.572	ug/l		100
61) 1,2-Dibromoethane	11.012	107	137078	51.963	ug/l		99
64) Tetrachloroethene	10.646	164	230259	42.158	ug/l		98
65) Chlorobenzene	11.438	112	591032	46.874	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.512	131	205201	47.714	ug/l		100
67) Ethyl Benzene	11.518	91	1054339	47.175	ug/l		100
68) m/p-Xylenes	11.627	106	809746	94.459	ug/l		100
69) o-Xylene	11.950	106	381261	47.923	ug/l		99
70) Styrene	11.963	104	649988	49.878	ug/l		100
71) Bromoform	12.127	173	107452	49.216	ug/l	#	98
73) Isopropylbenzene	12.249	105	988566	43.555	ug/l		100
74) N-amyl acetate	12.066	43	198406	46.366	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	162073	49.344	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	129107m	38.703	ug/l		
77) Bromobenzene	12.530	156	221834	45.064	ug/l		99
78) n-propylbenzene	12.591	91	1209202	44.738	ug/l		100
79) 2-Chlorotoluene	12.676	91	672715	44.254	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	807990	45.137	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	49252	43.976	ug/l		99
82) 4-Chlorotoluene	12.774	91	702672	45.832	ug/l		99
83) tert-Butylbenzene	12.993	119	714791	44.206	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	810500	45.996	ug/l		99
85) sec-Butylbenzene	13.170	105	1075896	44.401	ug/l		100
86) p-Isopropyltoluene	13.286	119	882609	44.848	ug/l		99
87) 1,3-Dichlorobenzene	13.280	146	443132	44.606	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	430652	44.810	ug/l		99
89) n-Butylbenzene	13.615	91	824788	45.418	ug/l		99
90) Hexachloroethane	13.877	117	180473	44.294	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	385924	46.055	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	25174	51.619	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	201178	45.546	ug/l		100
94) Hexachlorobutadiene	15.017	225	118232	42.457	ug/l		99
95) Naphthalene	15.139	128	357137	50.411	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	170114	46.643	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

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

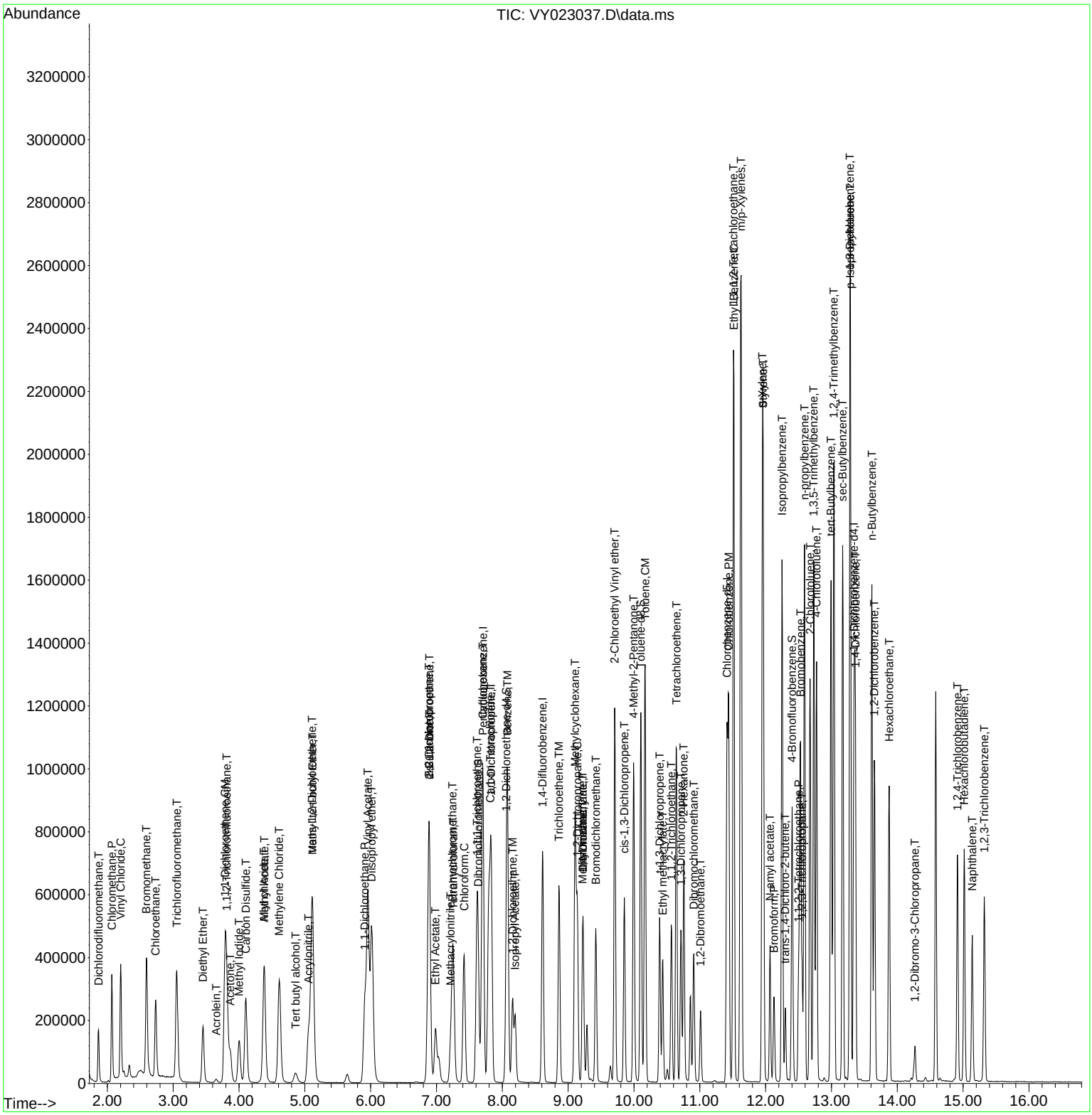
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

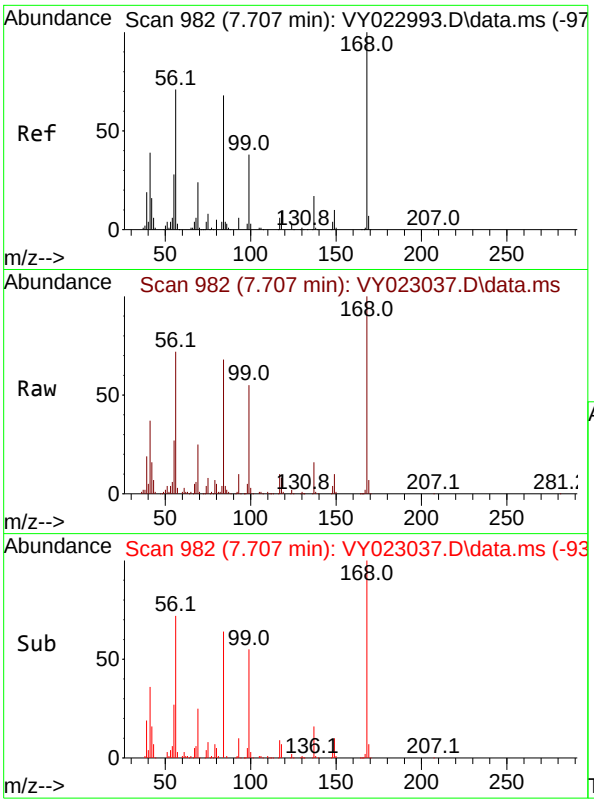
Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

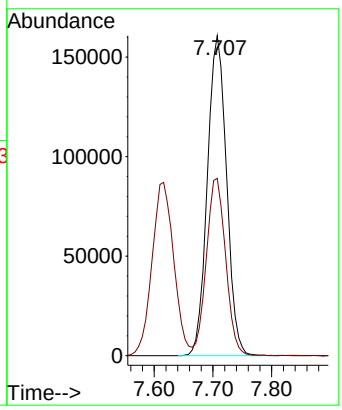
Tgt Ion:168 Resp: 36493

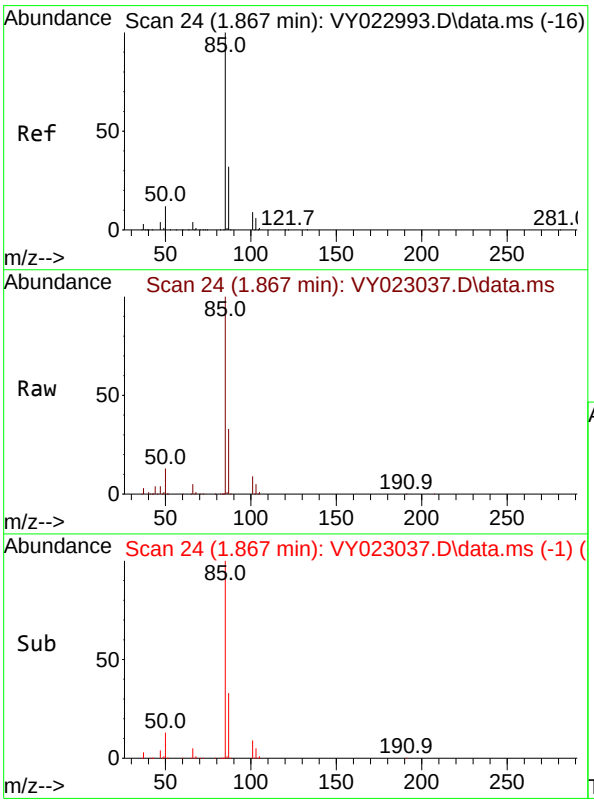
Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.4	66.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

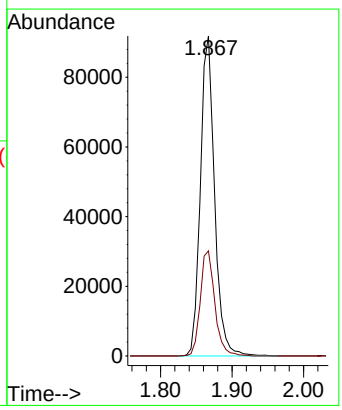


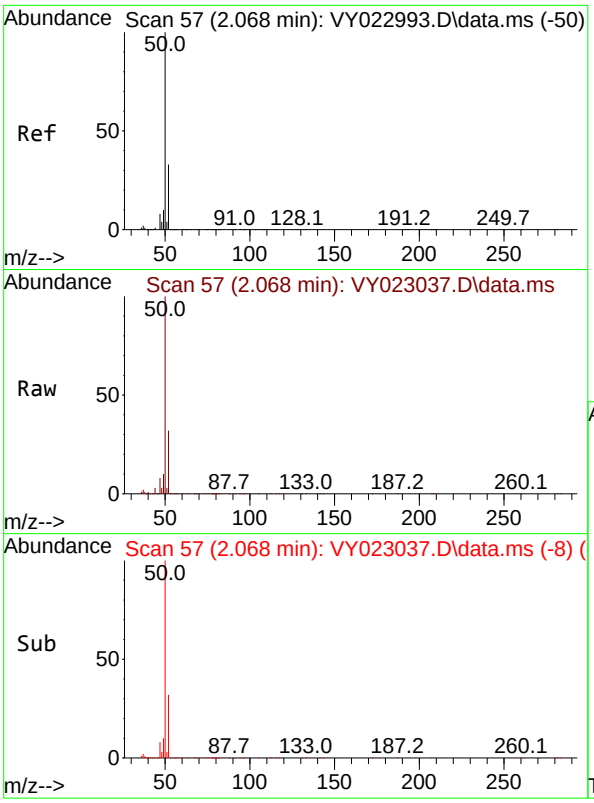


#2
Dichlorodifluoromethane
Concen: 40.979 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 85 Resp: 126982

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.0	47.9





#3
Chloromethane
Concen: 51.179 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

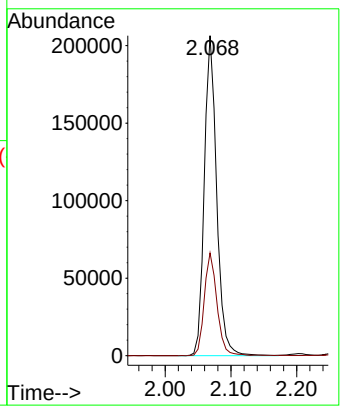
Tgt Ion: 50 Resp: 26965

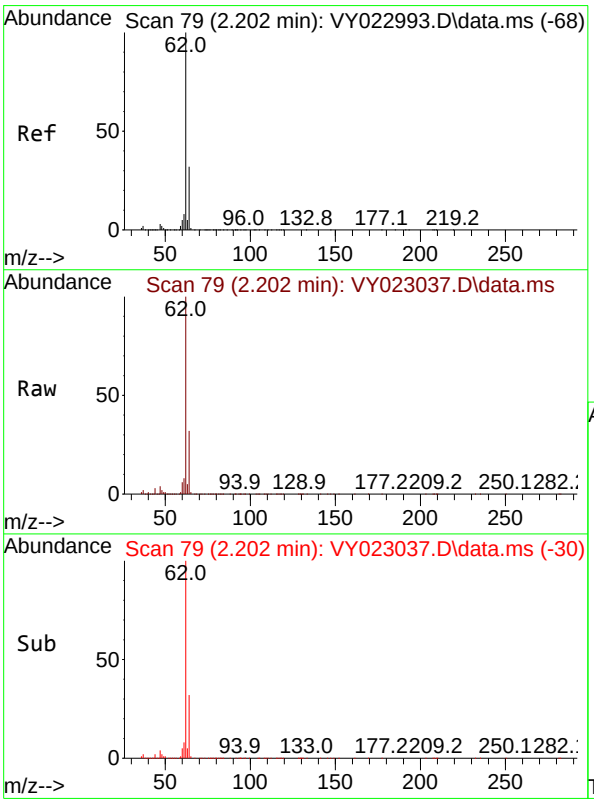
Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

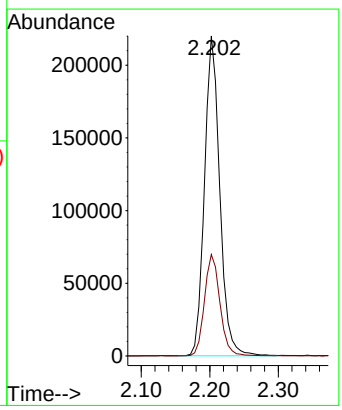


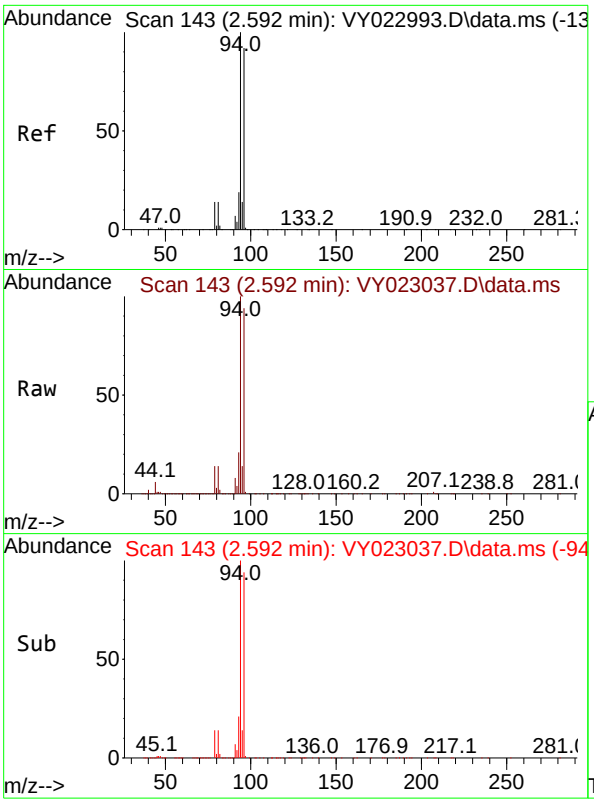


#4
Vinyl Chloride
Concen: 51.189 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 62 Resp: 341701

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.2	37.8





#5
Bromomethane
Concen: 53.371 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

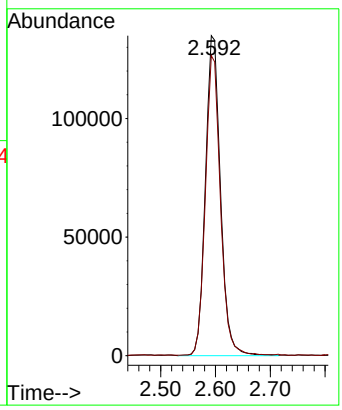
Tgt Ion: 94 Resp: 25712

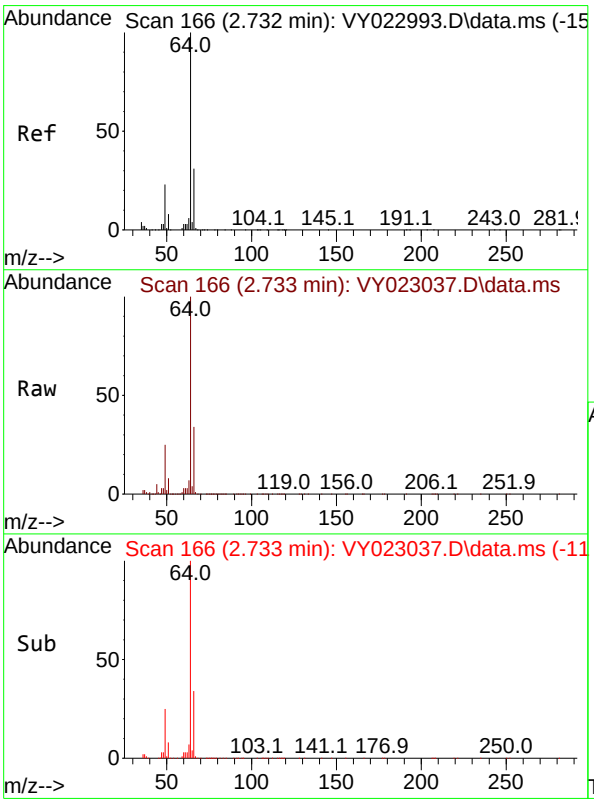
Ion	Ratio	Lower	Upper
94	100		
96	93.6	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

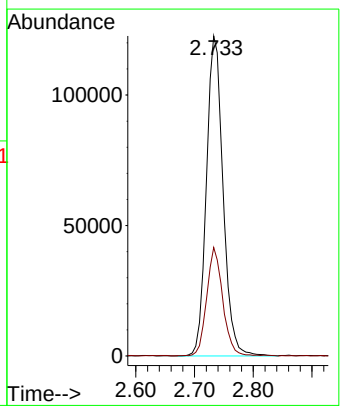


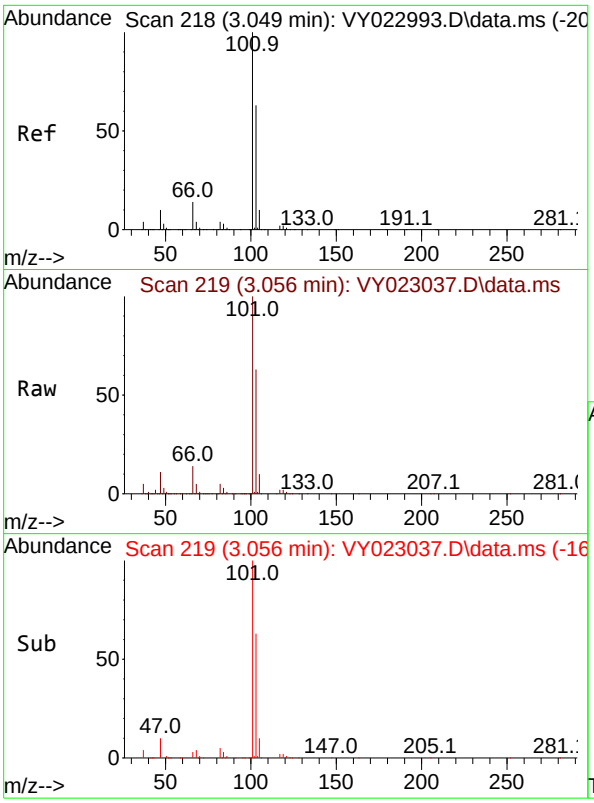


#6
Chloroethane
Concen: 54.083 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 64 Resp: 241112

Ion	Ratio	Lower	Upper
64	100		
66	33.9	24.9	37.3

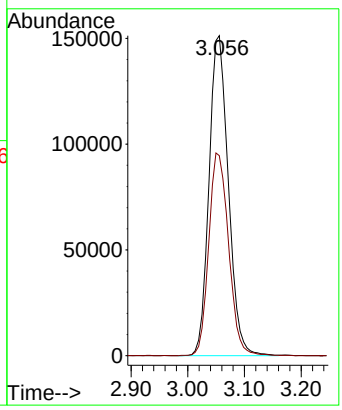




#7
Trichlorofluoromethane
Concen: 46.144 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:101 Resp: 35756

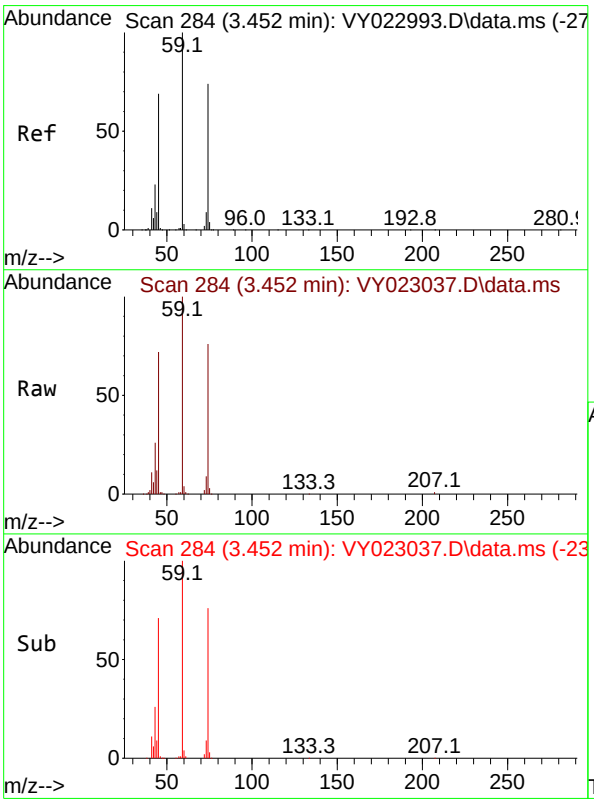
Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

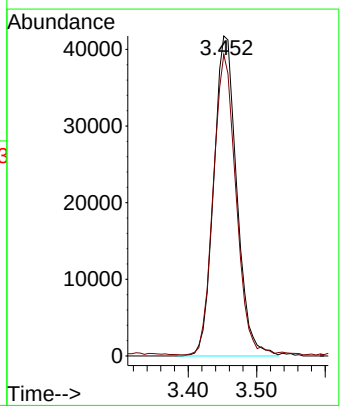
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

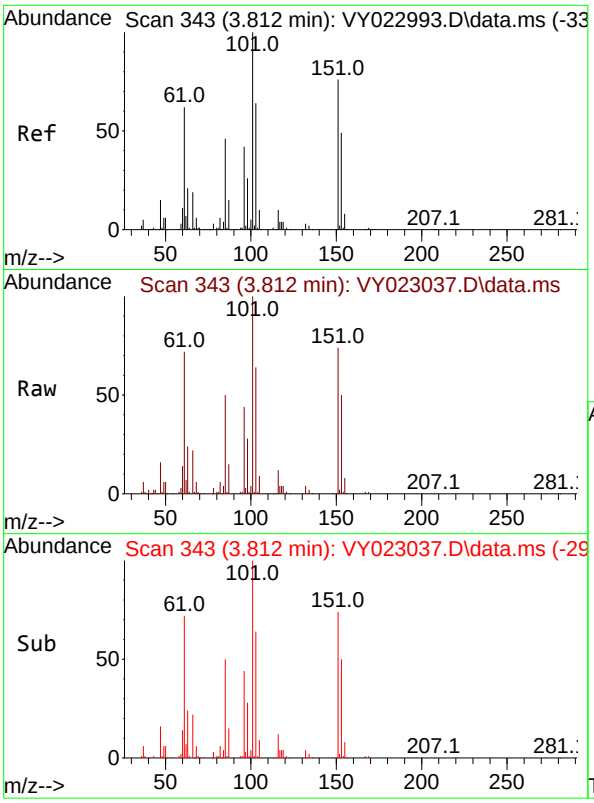


#8
Diethyl Ether
Concen: 47.921 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 74 Resp: 97187

Ion	Ratio	Lower	Upper
74	100		
45	92.5	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.347 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

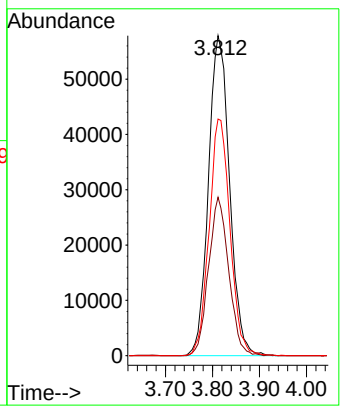
Tgt Ion:101 Resp: 18052

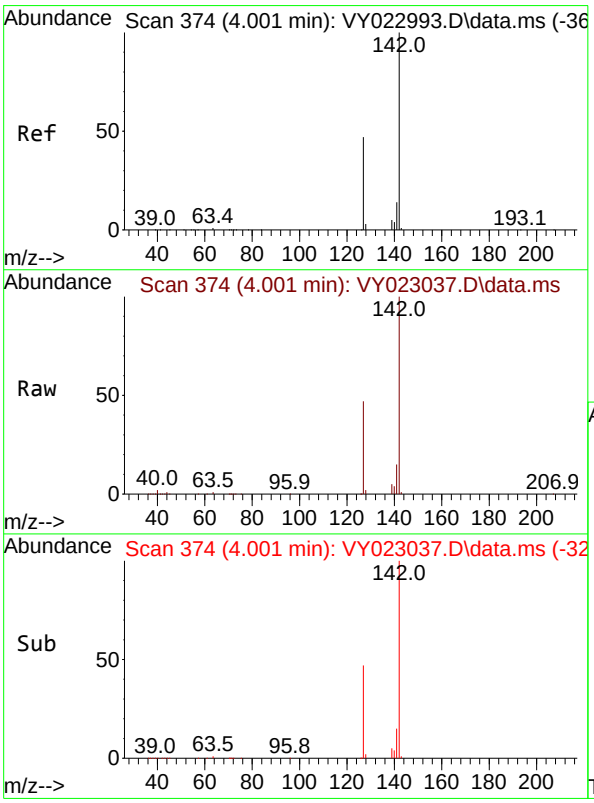
Ion	Ratio	Lower	Upper
101	100		
85	47.3	37.2	55.8
151	73.3	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

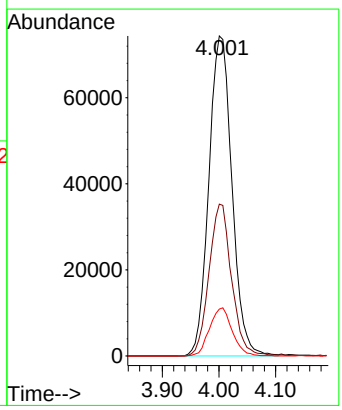


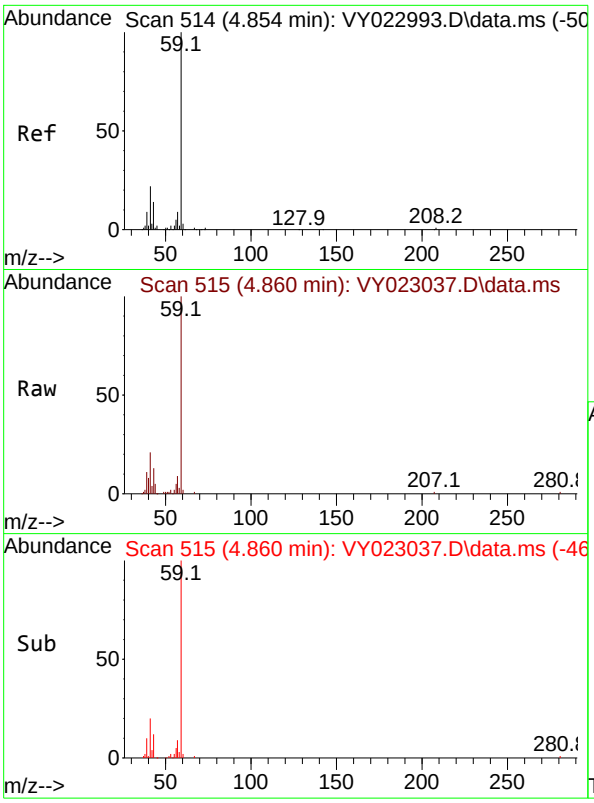


#10
Methyl Iodide
Concen: 49.718 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:142 Resp: 210246

Ion	Ratio	Lower	Upper
142	100		
127	46.3	37.0	55.6
141	14.8	11.4	17.2

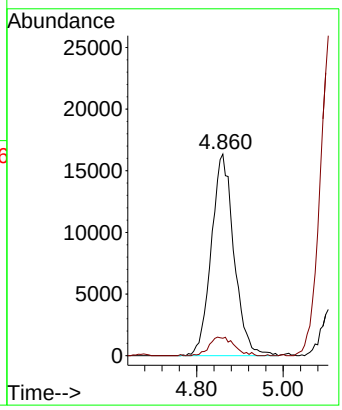




#11
Tert butyl alcohol
Concen: 266.251 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 59 Resp: 5948

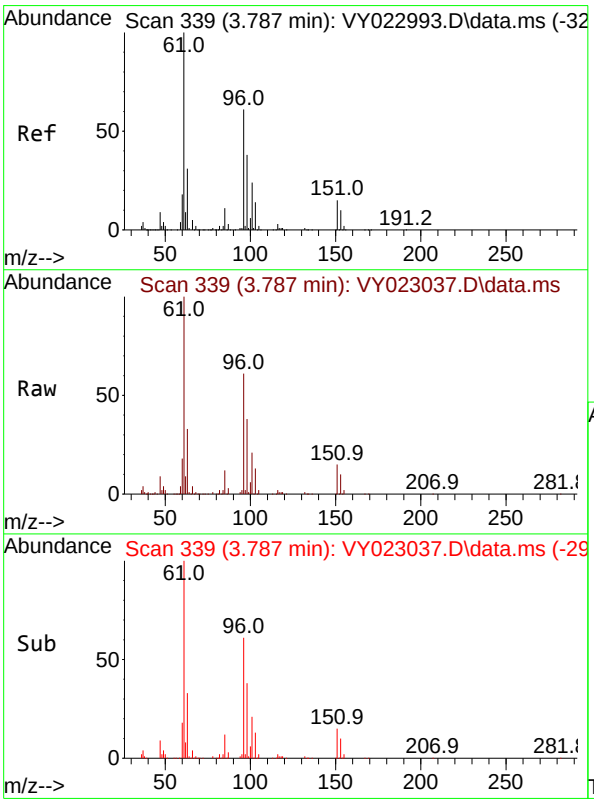
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

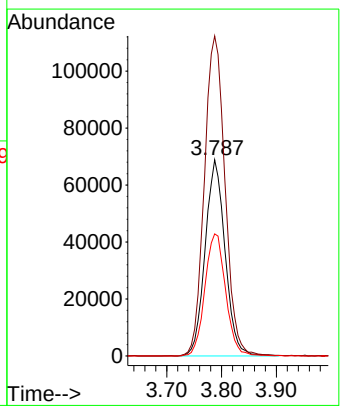
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

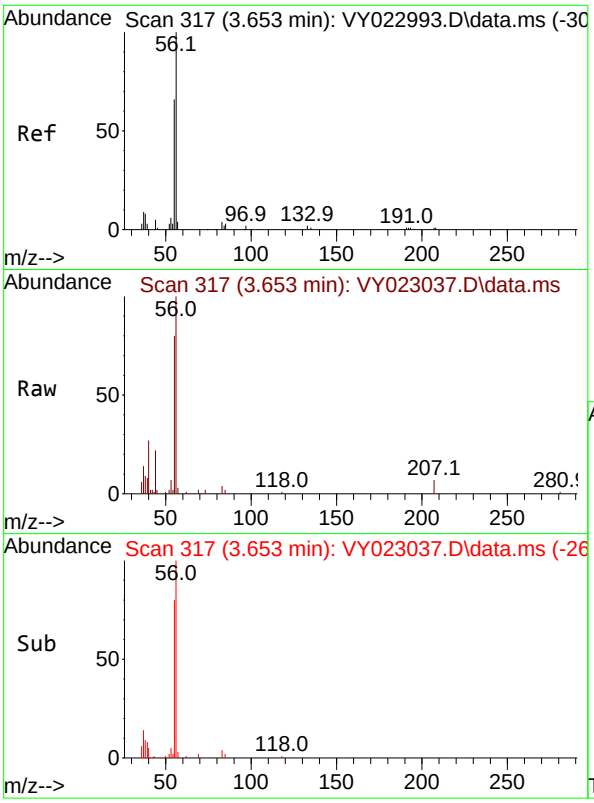


#12
1,1-Dichloroethene
Concen: 44.904 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 96 Resp: 174127

Ion	Ratio	Lower	Upper
96	100		
61	163.2	130.4	195.6
98	62.3	49.6	74.4





#13
Acrolein
Concen: 113.632 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

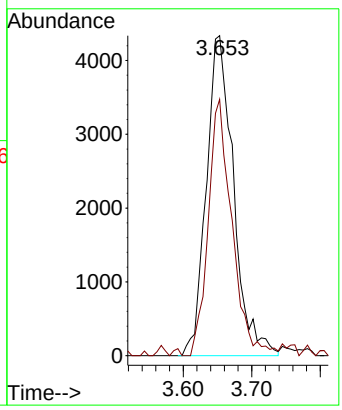
Tgt Ion: 56 Resp: 1193

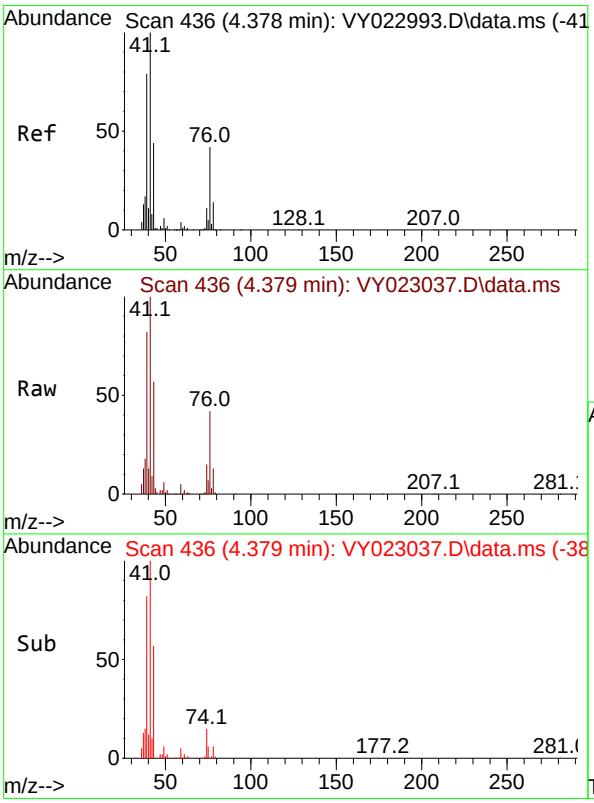
Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

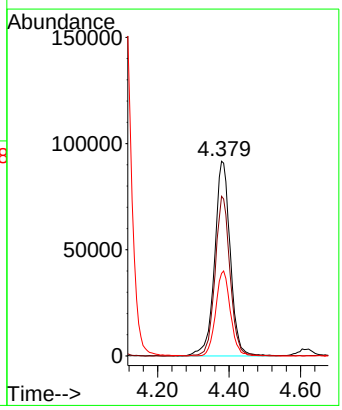


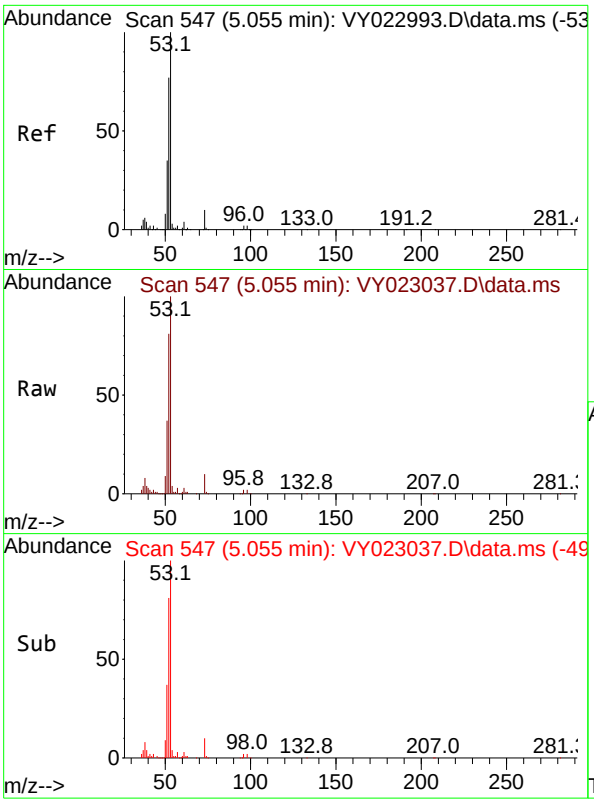


#14
Allyl chloride
Concen: 47.094 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 41 Resp: 278218

Ion	Ratio	Lower	Upper
41	100		
39	78.3	60.1	90.1
76	41.0	32.2	48.4

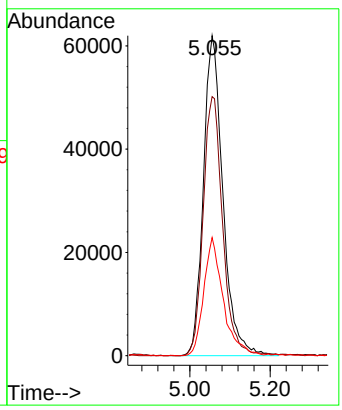




#15
Acrylonitrile
Concen: 272.310 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 53 Resp: 20918

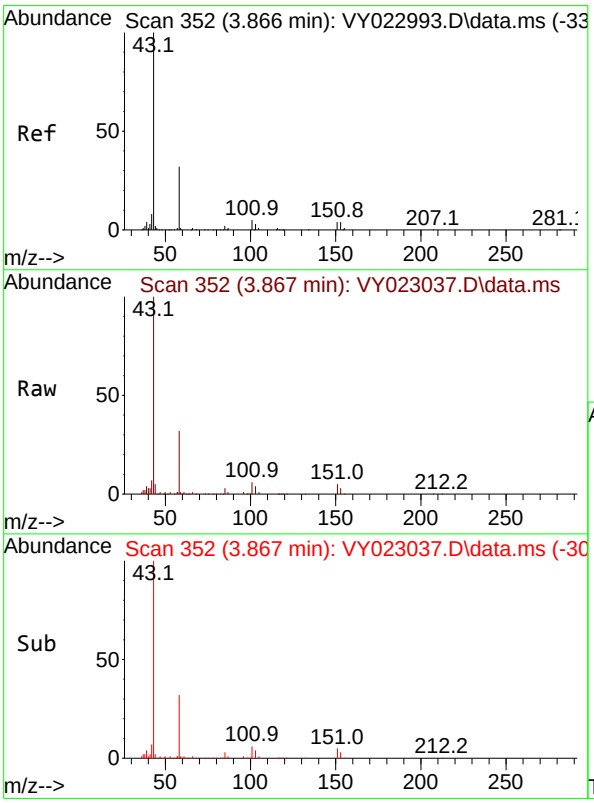
Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.2	97.8
51	36.9	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

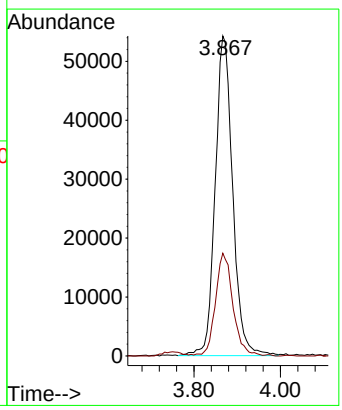
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

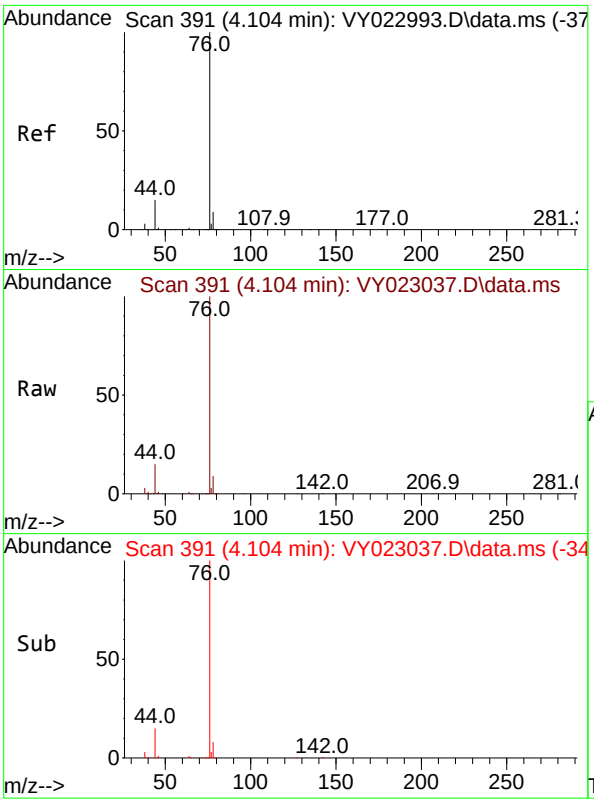


#16
Acetone
Concen: 227.117 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 152093

Ion	Ratio	Lower	Upper
43	100		
58	32.0	26.2	39.4





#17
Carbon Disulfide
Concen: 45.378 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

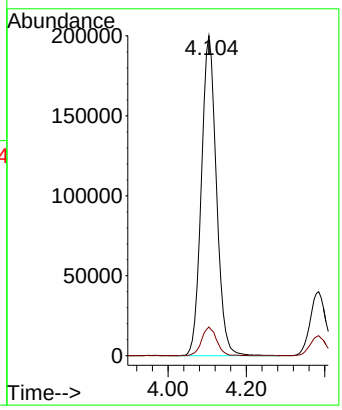
Tgt Ion: 76 Resp: 53331

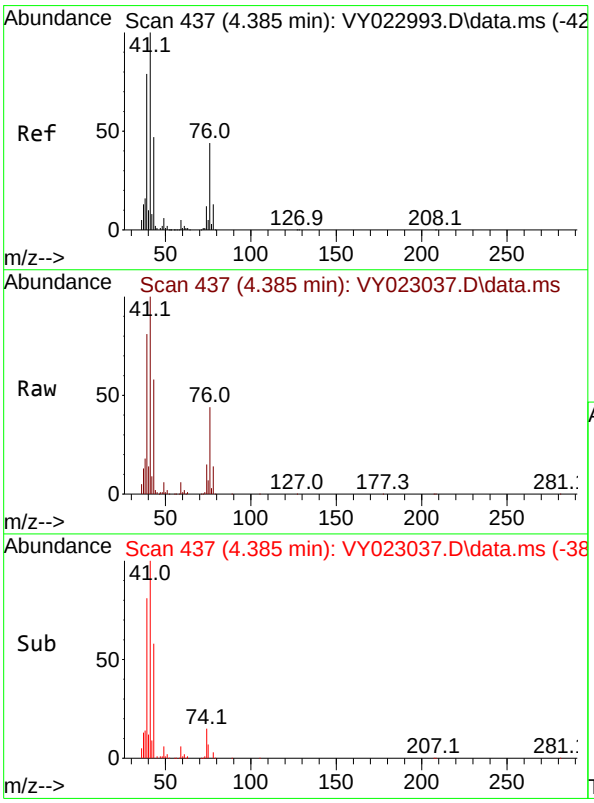
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

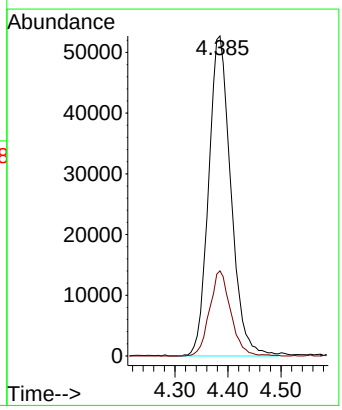


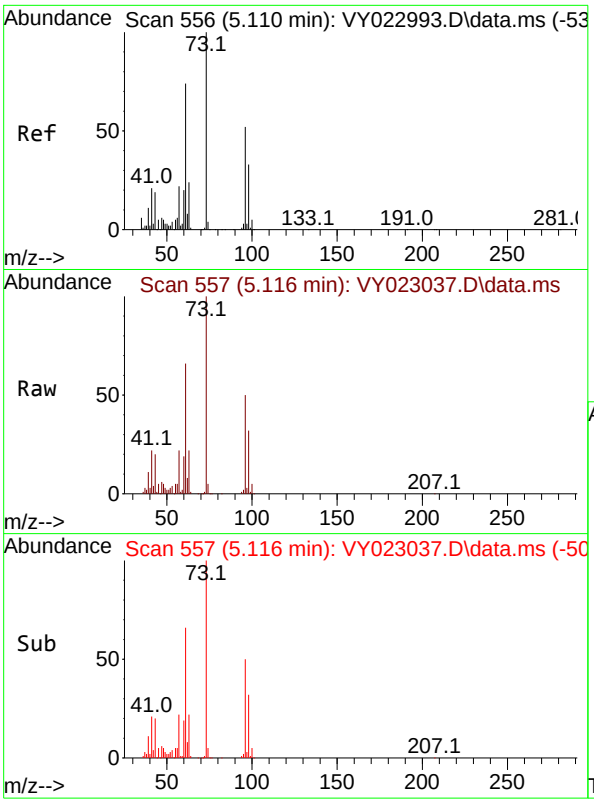


#18
Methyl Acetate
Concen: 67.737 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 153573

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.1	30.1

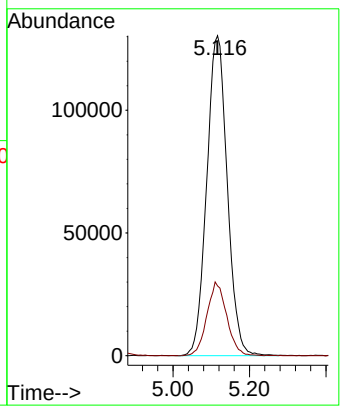




#19
Methyl tert-butyl Ether
Concen: 52.263 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 73 Resp: 48610

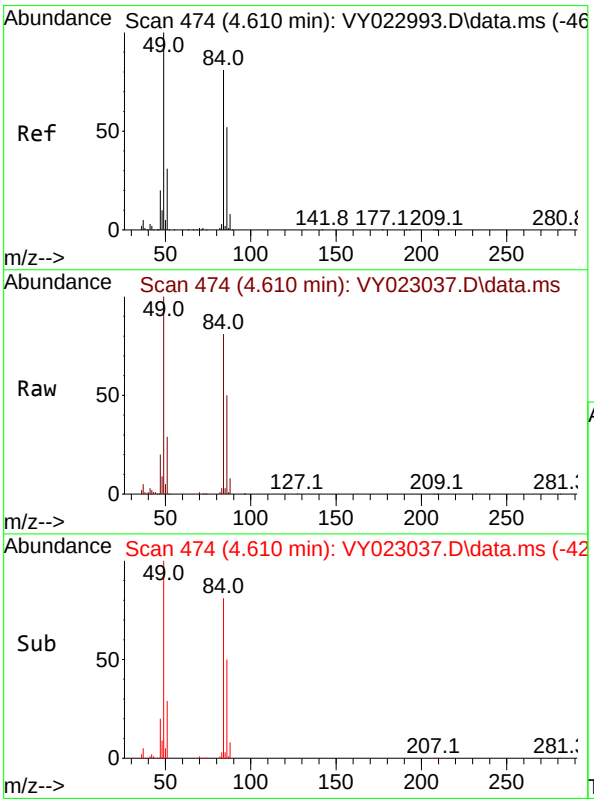
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

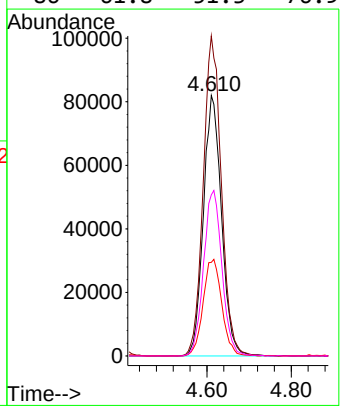
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

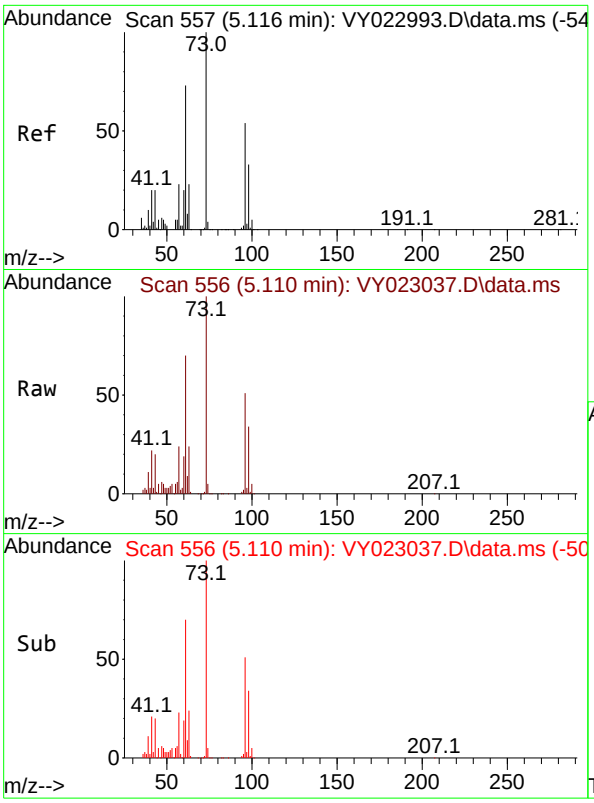


#20
Methylene Chloride
Concen: 52.461 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 84 Resp: 245177

Ion	Ratio	Lower	Upper
84	100		
49	122.8	98.2	147.4
51	35.9	30.5	45.7
86	61.8	51.3	76.9

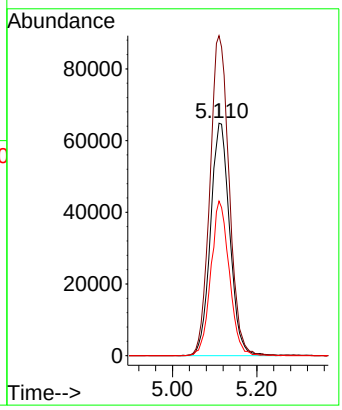




#21
trans-1,2-Dichloroethene
Concen: 47.486 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 96 Resp: 20497

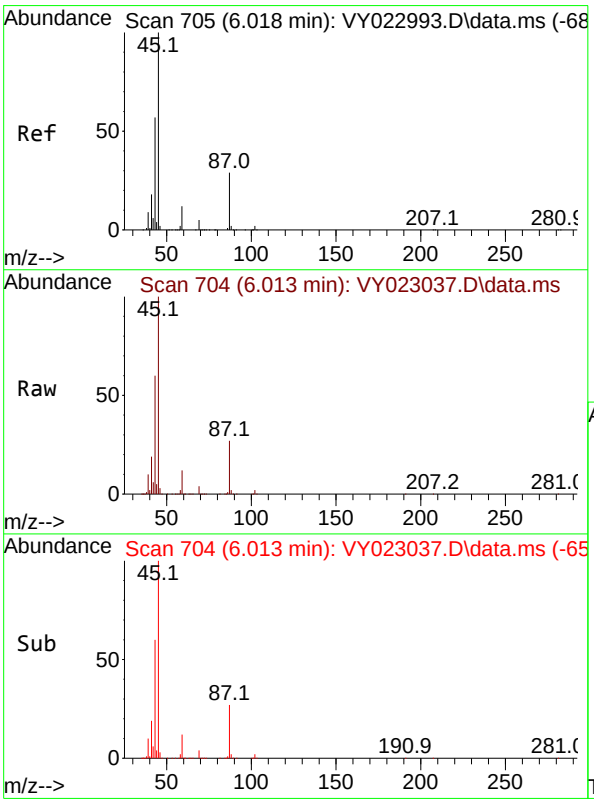
Ion	Ratio	Lower	Upper
96	100		
61	137.7	107.4	161.2
98	66.5	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

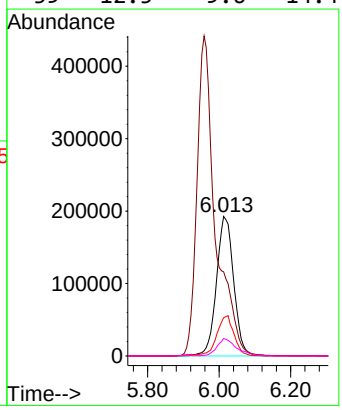
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

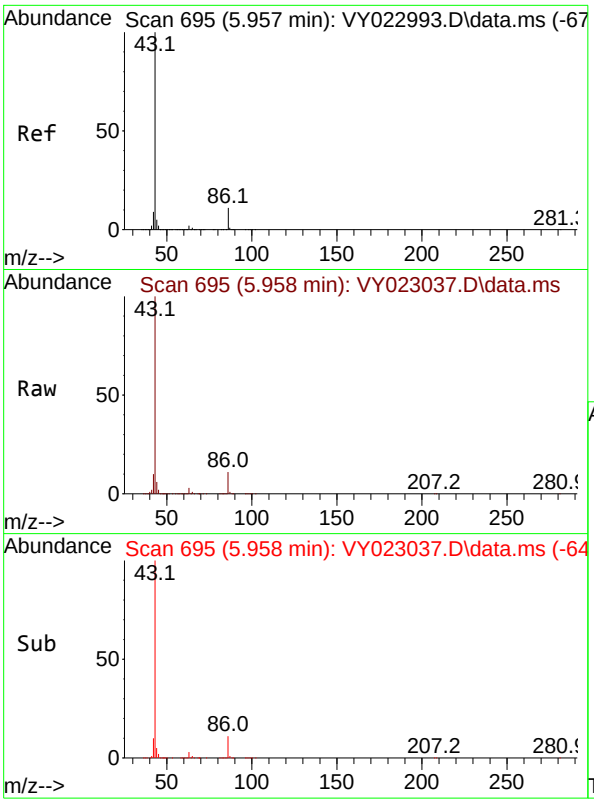


#22
Diisopropyl ether
Concen: 51.489 ug/l
RT: 6.013 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 45 Resp: 645325

Ion	Ratio	Lower	Upper
45	100		
43	60.2	45.3	67.9
87	27.4	23.3	34.9
59	12.5	9.6	14.4





#23
Vinyl Acetate
Concen: 251.092 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

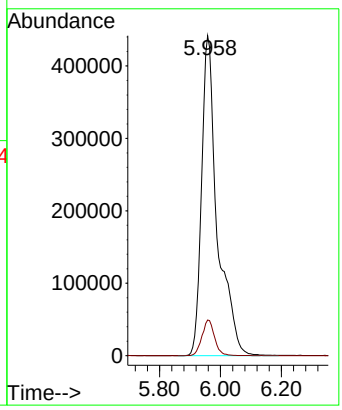
Tgt Ion: 43 Resp: 158566

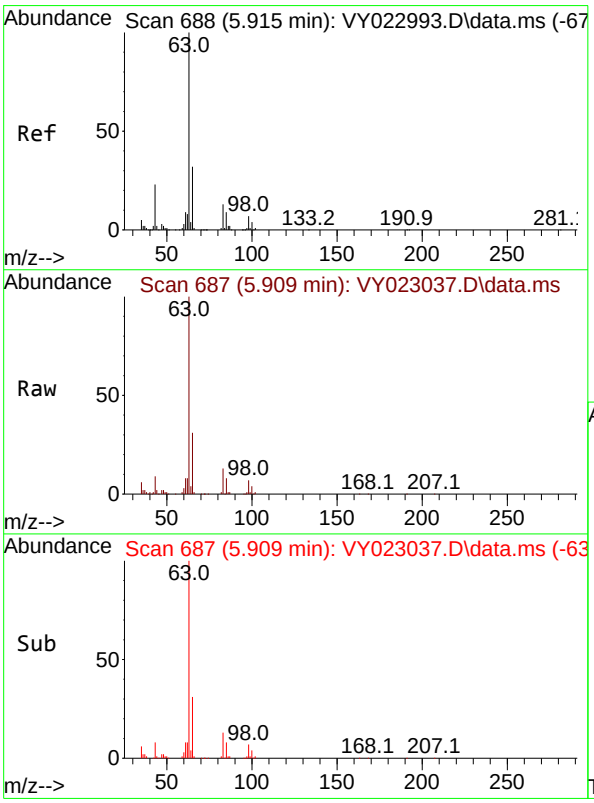
Ion	Ratio	Lower	Upper
43	100		
86	11.1	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

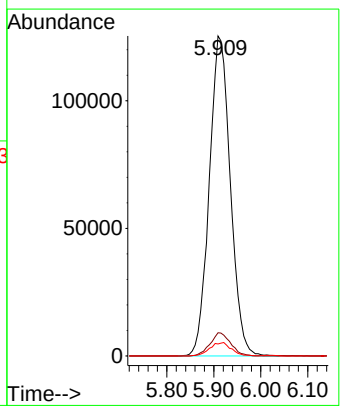


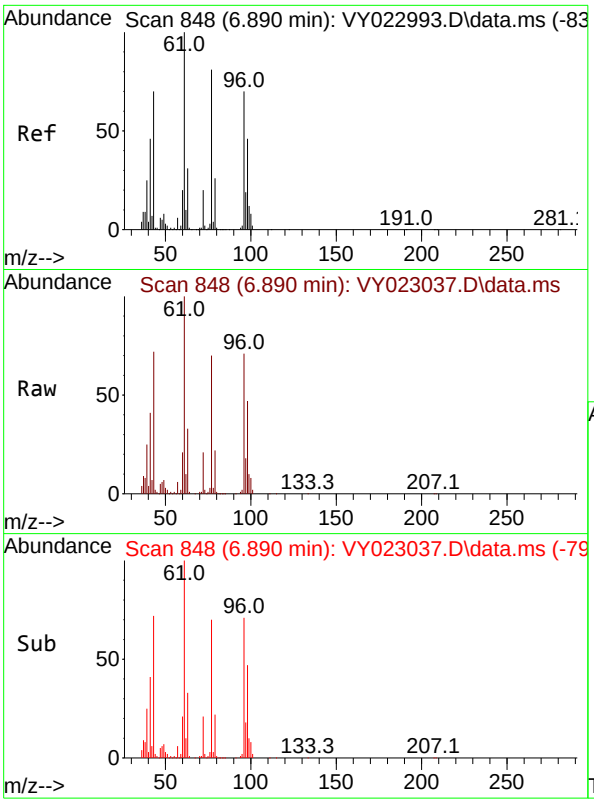


#24
1,1-Dichloroethane
Concen: 49.557 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 63 Resp: 390117

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.5
100	3.8	2.1	6.2





#25
2-Butanone
Concen: 259.880 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

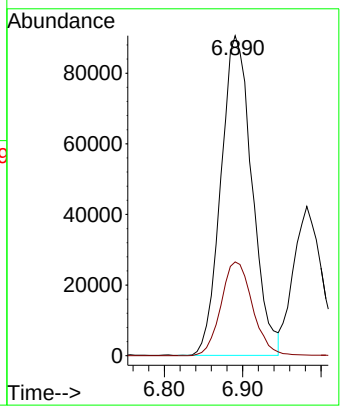
Tgt Ion: 43 Resp: 24966

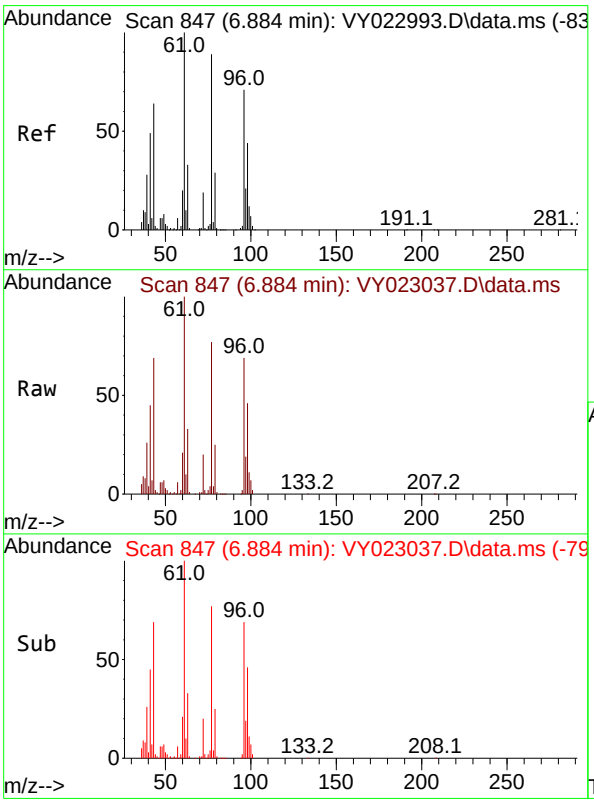
Ion	Ratio	Lower	Upper
43	100		
72	29.4	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

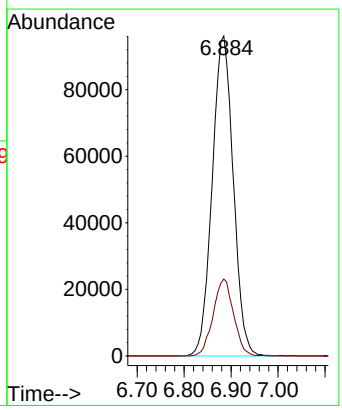


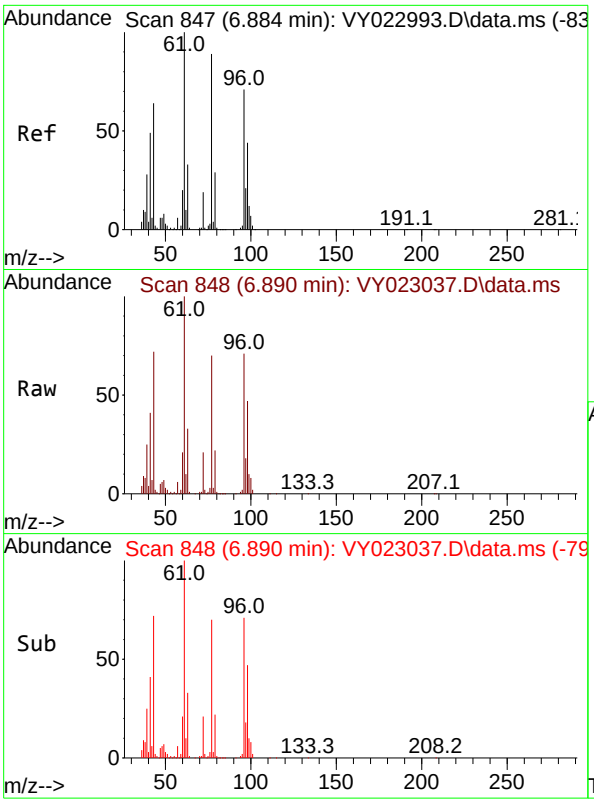


#26
2,2-Dichloropropane
Concen: 43.384 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 77 Resp: 299317

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 49.131 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

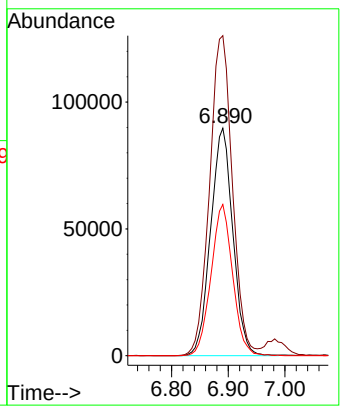
Tgt Ion: 96 Resp: 24441

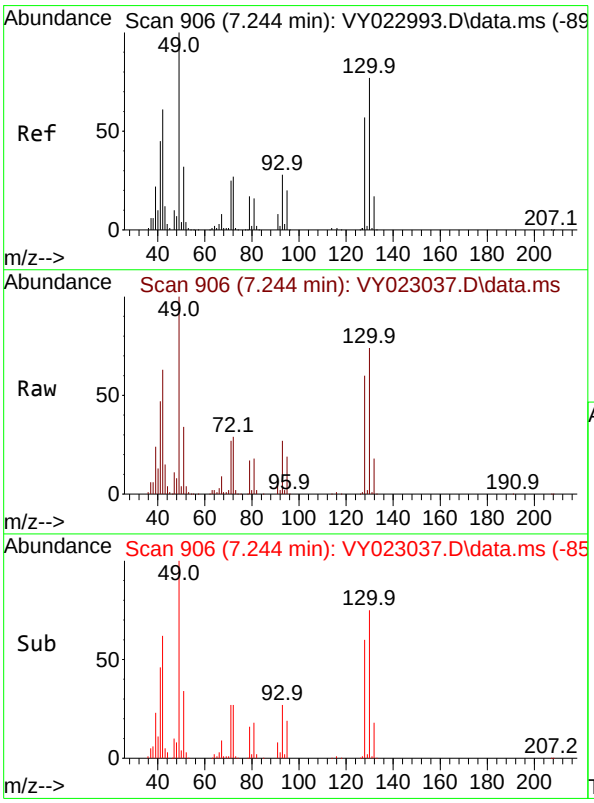
Ion	Ratio	Lower	Upper
96	100		
61	144.6	0.0	286.2
98	64.6	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

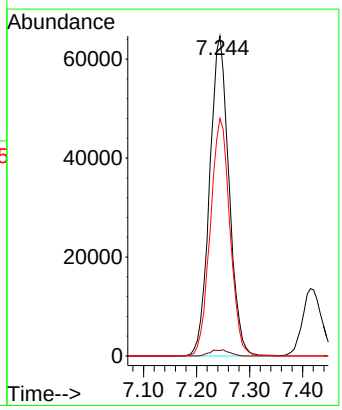


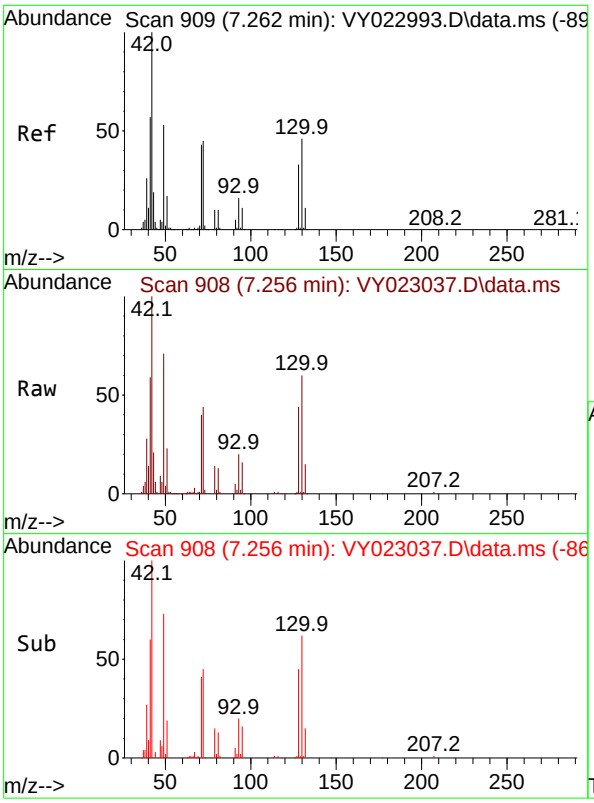


#28
Bromochloromethane
Concen: 53.625 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 49 Resp: 163732

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	75.3	61.8	92.8





#29
Tetrahydrofuran
Concen: 275.629 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

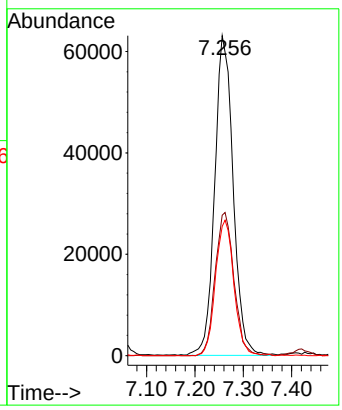
Tgt Ion: 42 Resp: 16764

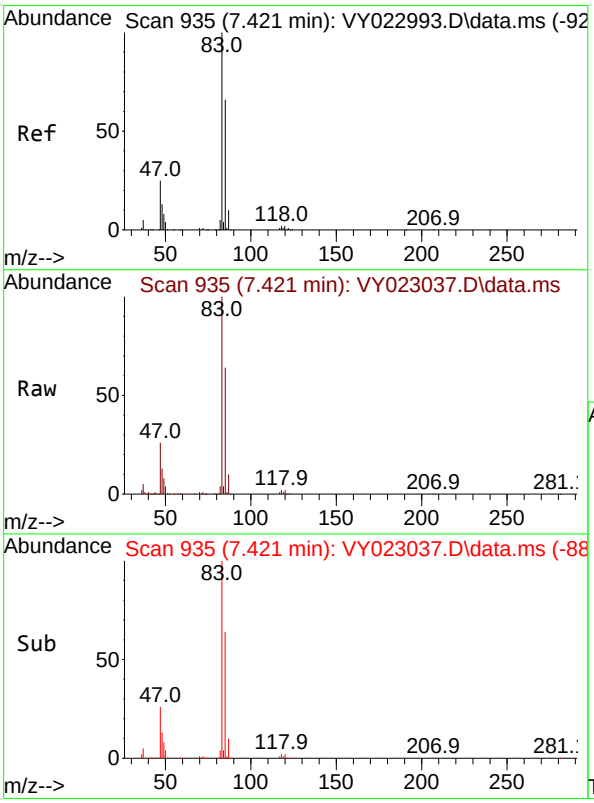
Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.5	56.3
71	42.1	34.2	51.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

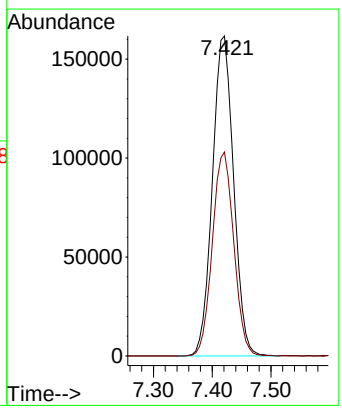


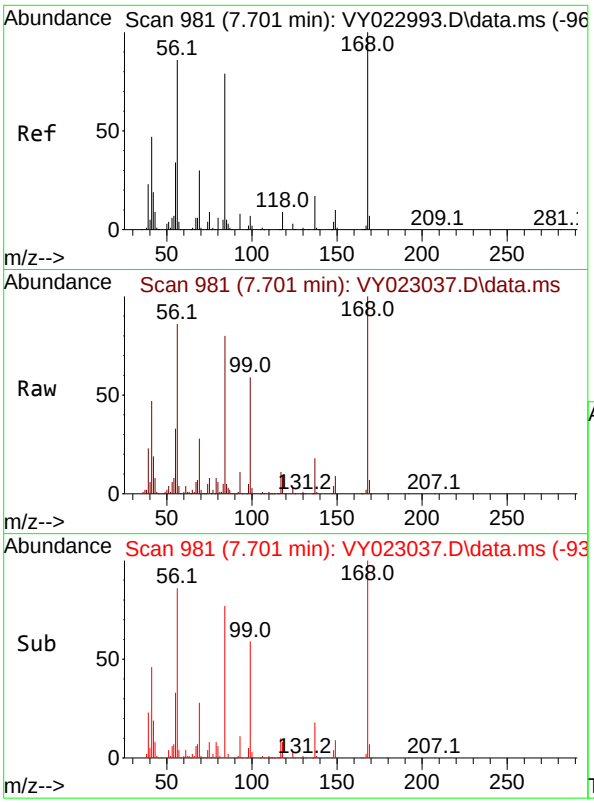


#30
Chloroform
Concen: 51.090 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 83 Resp: 405722

Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.6	78.8

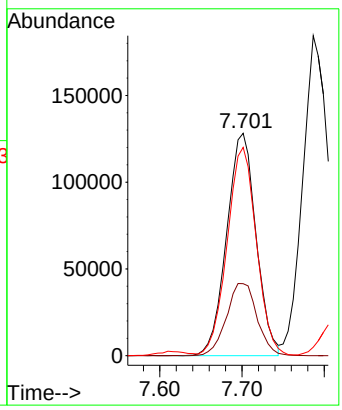




#31
Cyclohexane
Concen: 43.302 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 56 Resp: 31851

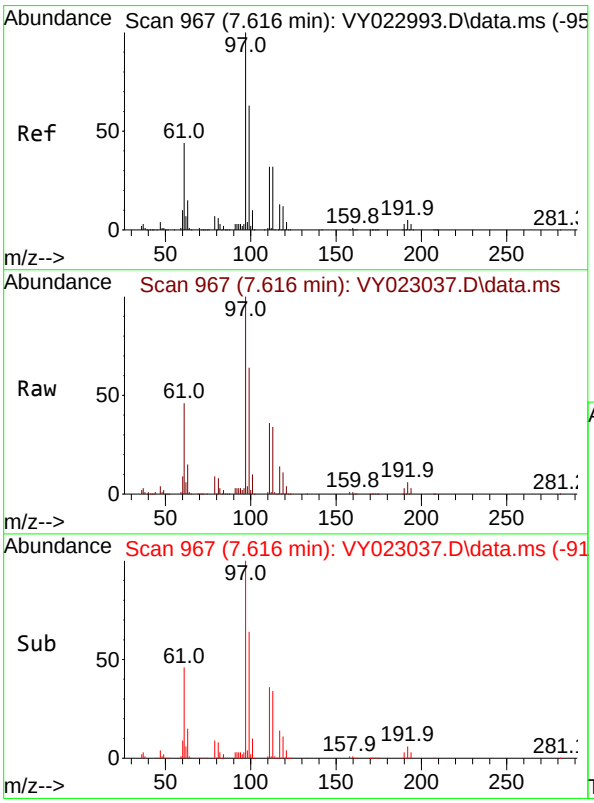
Ion	Ratio	Lower	Upper
56	100		
69	32.3	28.1	42.1
84	92.0	73.5	110.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

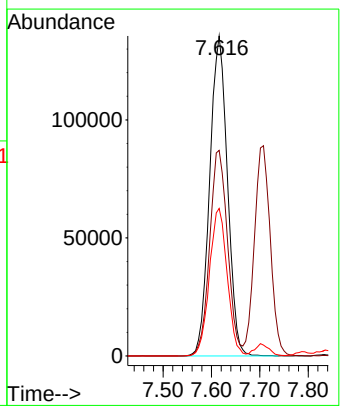
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

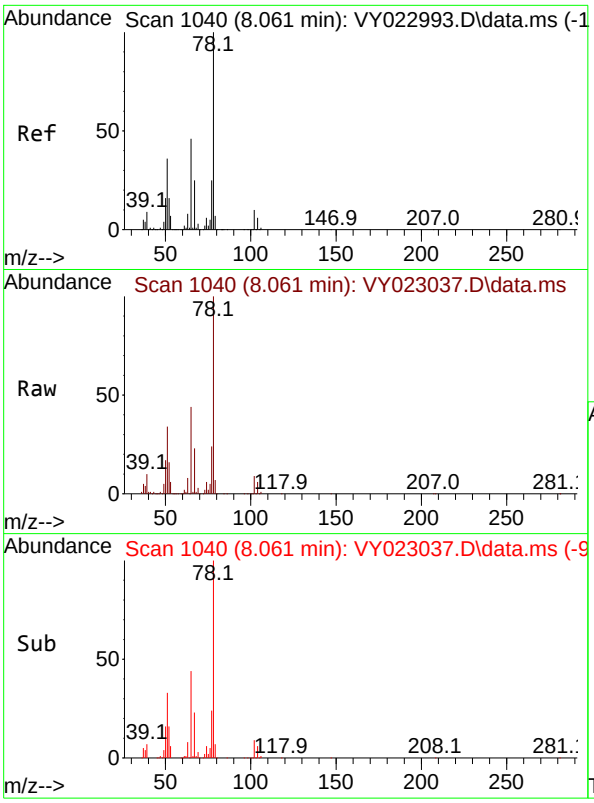


#32
1,1,1-Trichloroethane
Concen: 47.946 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 97 Resp: 345470

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.1	76.7
61	46.3	36.1	54.1





#33
1,2-Dichloroethane-d4
Concen: 54.308 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

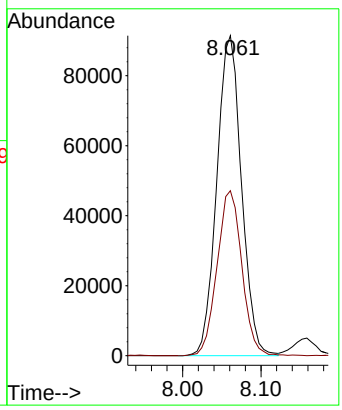
Tgt Ion: 65 Resp: 20063

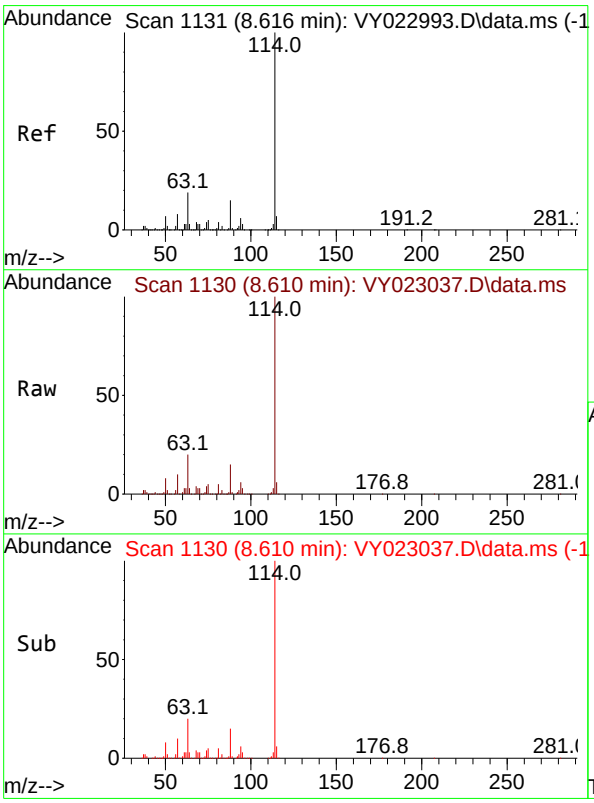
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	107.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

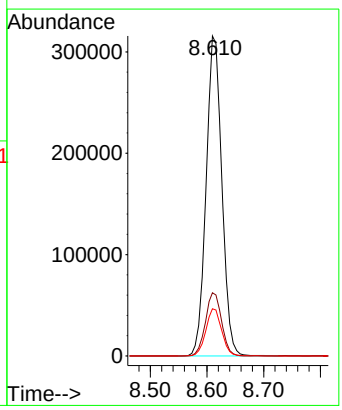


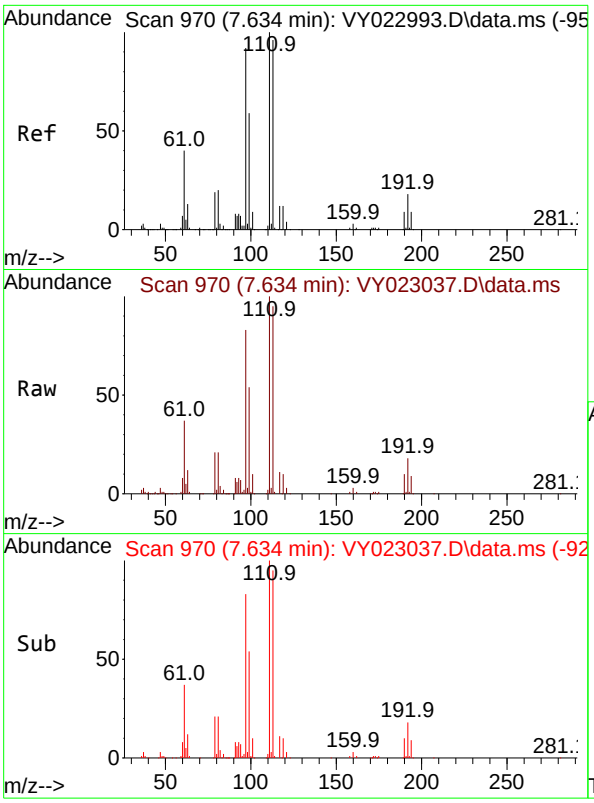


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:114 Resp: 608629

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.8
88	14.8	0.0	30.2





#35
Dibromofluoromethane
Concen: 48.883 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

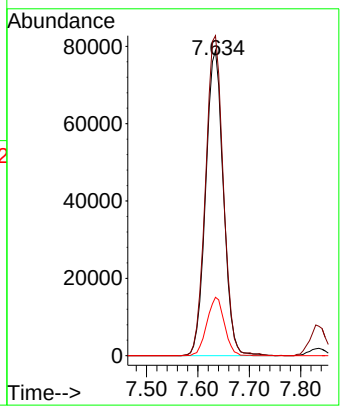
Tgt Ion:113 Resp: 18872

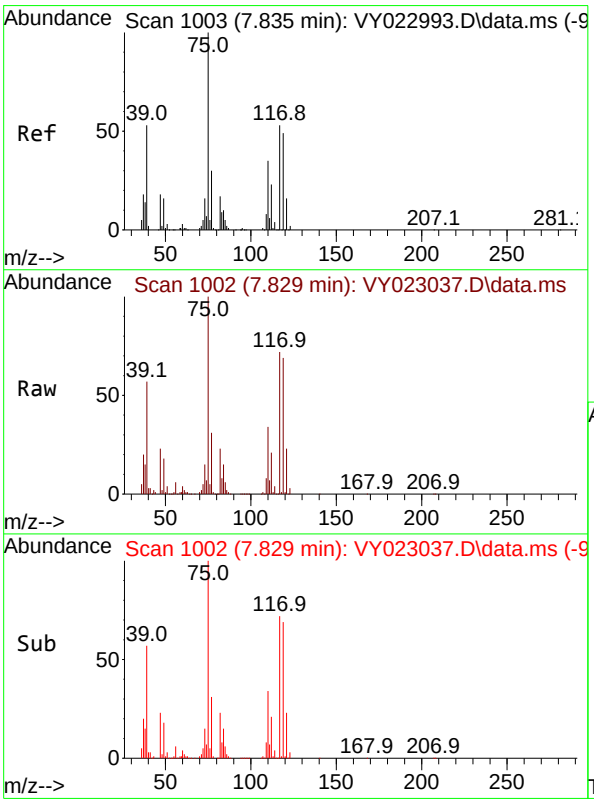
Ion	Ratio	Lower	Upper
113	100		
111	105.5	83.2	124.8
192	19.0	15.3	22.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

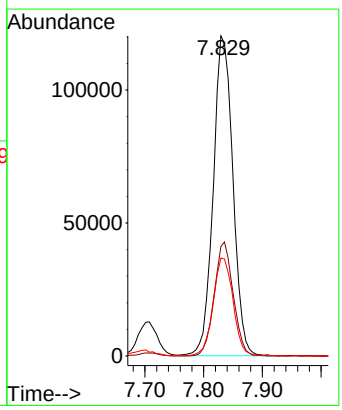


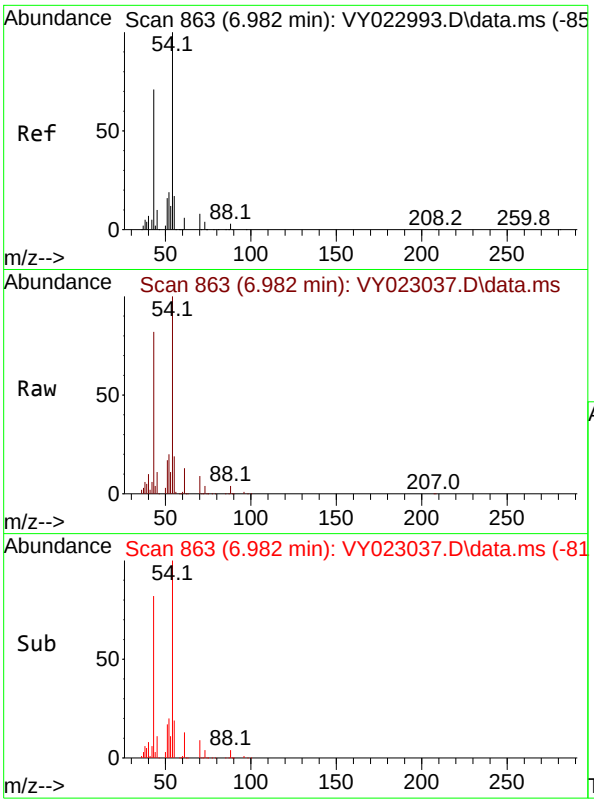


#36
1,1-Dichloropropene
Concen: 46.015 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 279833

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.3	51.9
77	31.0	24.6	37.0





#37
Ethyl Acetate
Concen: 49.061 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

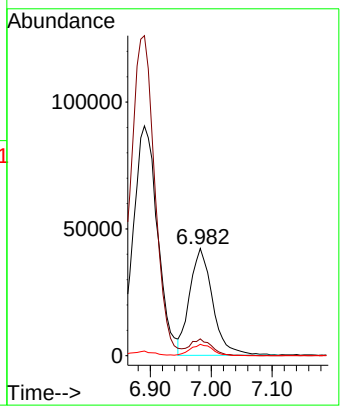
Tgt Ion: 43 Resp: 11080

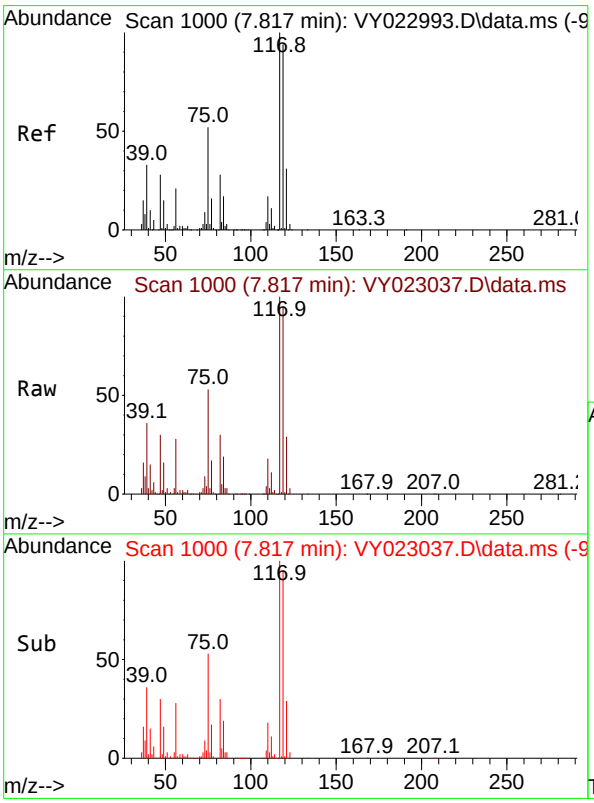
Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.6	17.4
70	10.3	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

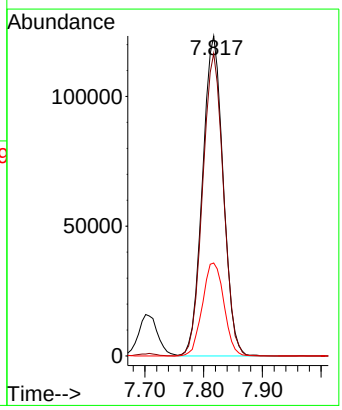


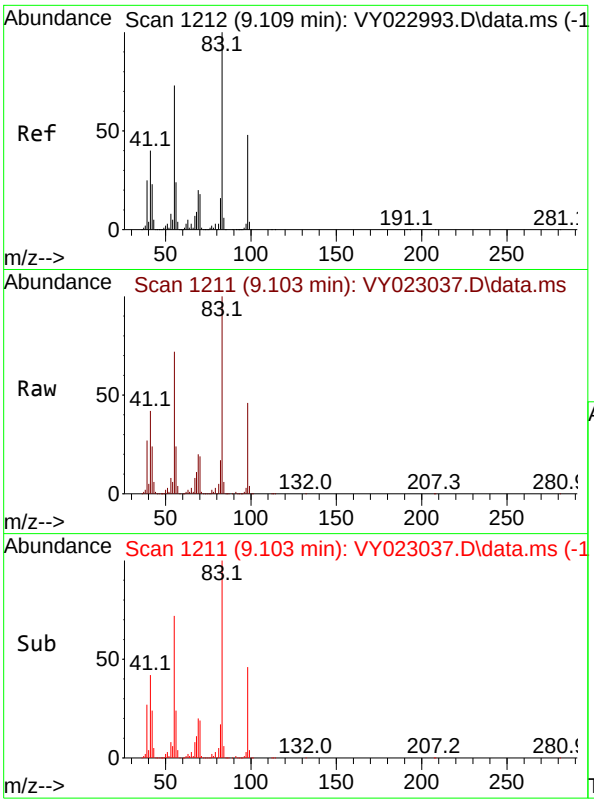


#38
Carbon Tetrachloride
Concen: 45.558 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:117 Resp: 300995

Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.9	112.3
121	29.0	24.6	37.0





#39
Methylcyclohexane
Concen: 44.125 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

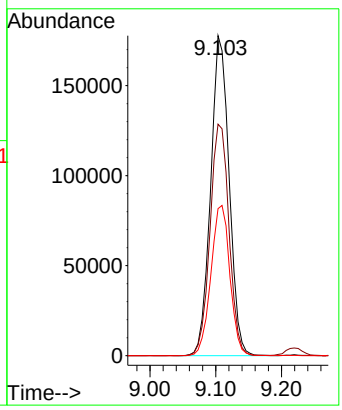
Tgt Ion: 83 Resp: 34732

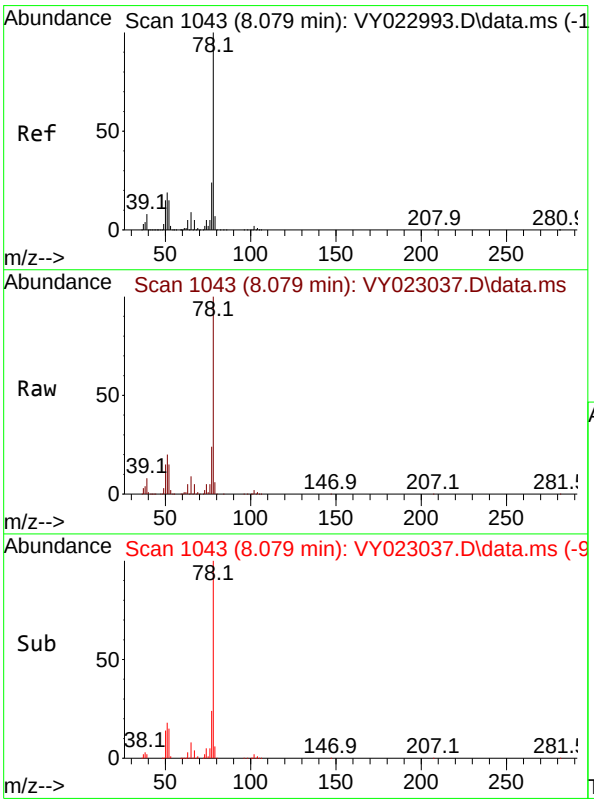
Ion	Ratio	Lower	Upper
83	100		
55	72.4	58.1	87.1
98	45.9	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

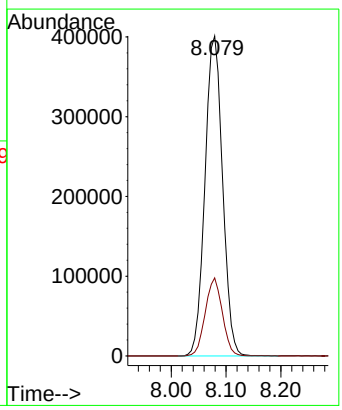


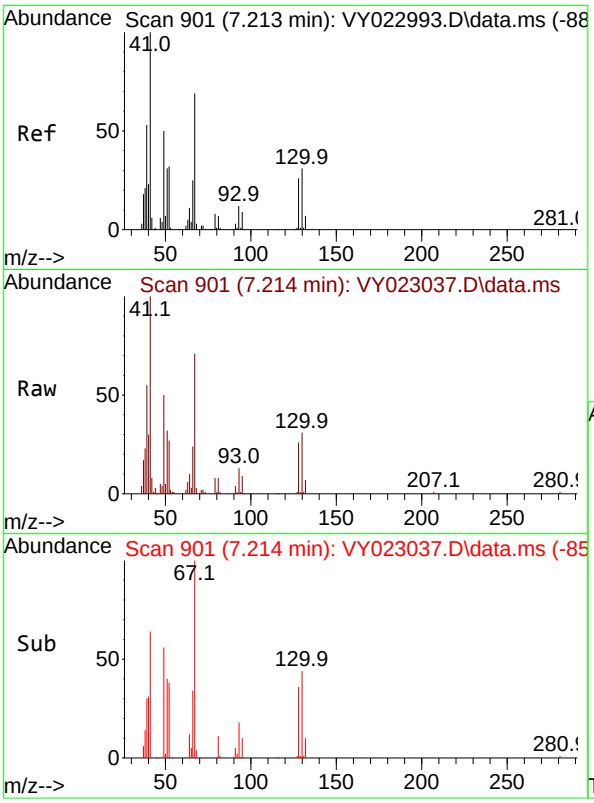


#40
Benzene
Concen: 48.766 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 78 Resp: 892923

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4

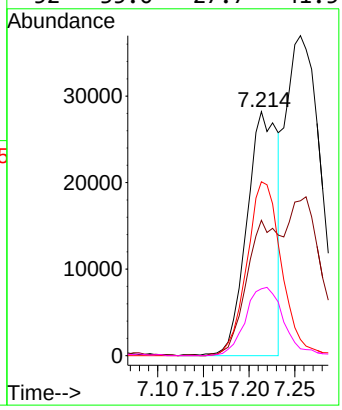




#41
Methacrylonitrile
Concen: 53.684 ug/l
RT: 7.214 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 41 Resp: 6605

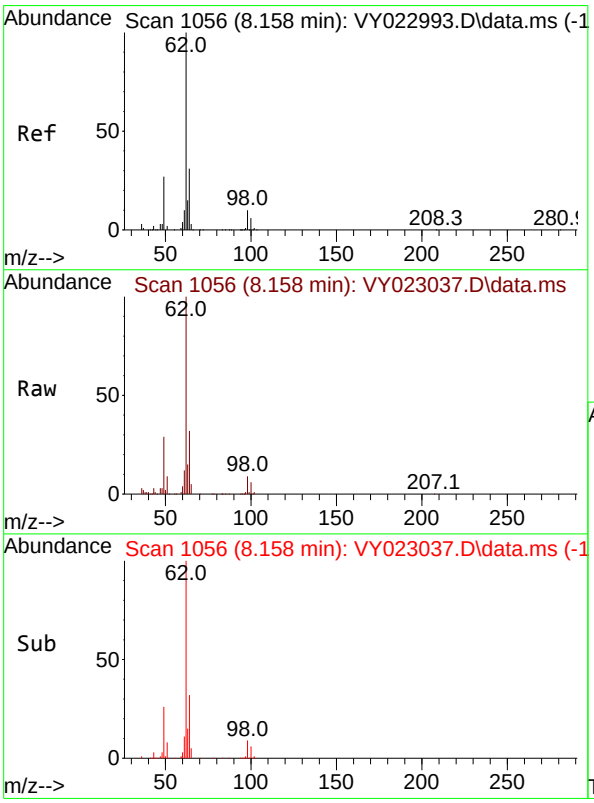
Ion	Ratio	Lower	Upper
41	100		
39	63.2	50.0	75.0
67	80.6	65.4	98.2
52	35.0	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

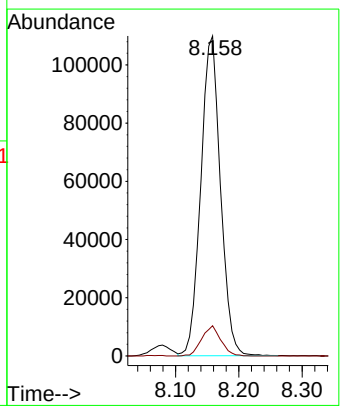
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

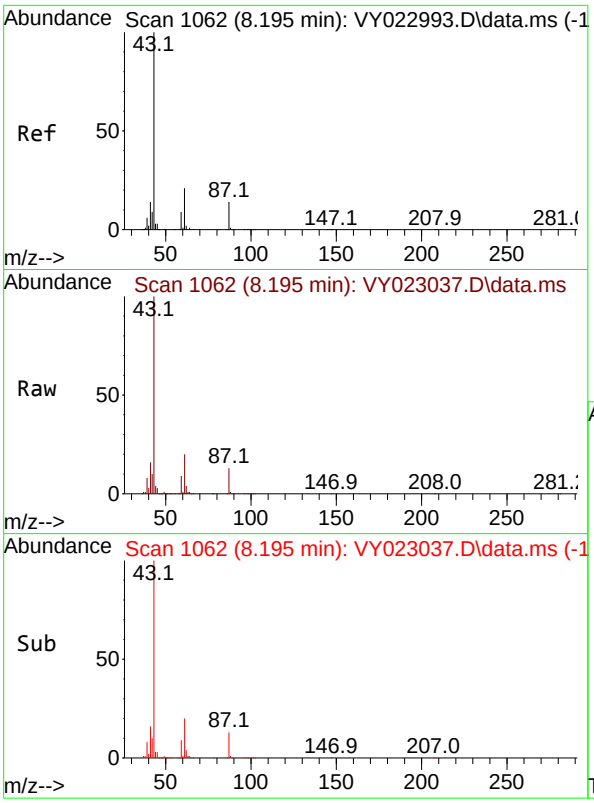


#42
1,2-Dichloroethane
Concen: 52.184 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 62 Resp: 237723

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.0





#43
Isopropyl Acetate
Concen: 51.904 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

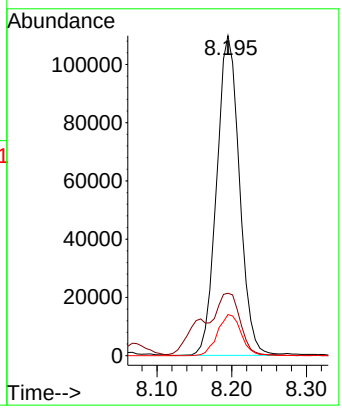
Tgt Ion: 43 Resp: 23285

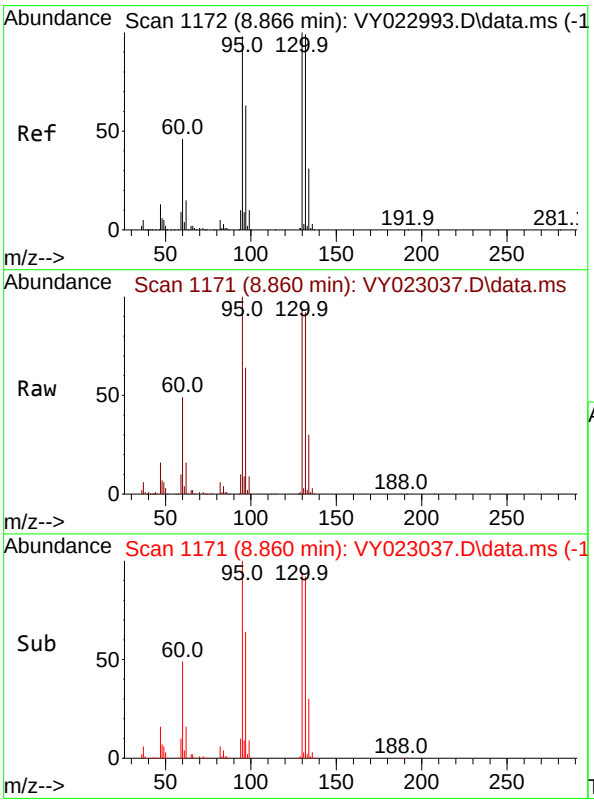
Ion	Ratio	Lower	Upper
43	100		
61	20.4	25.0	37.4
87	13.4	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

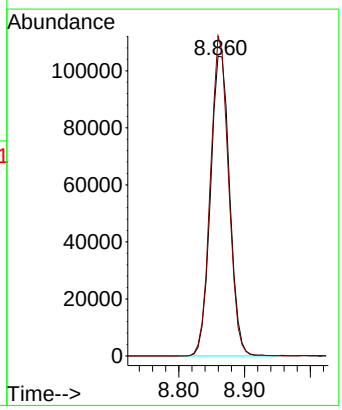


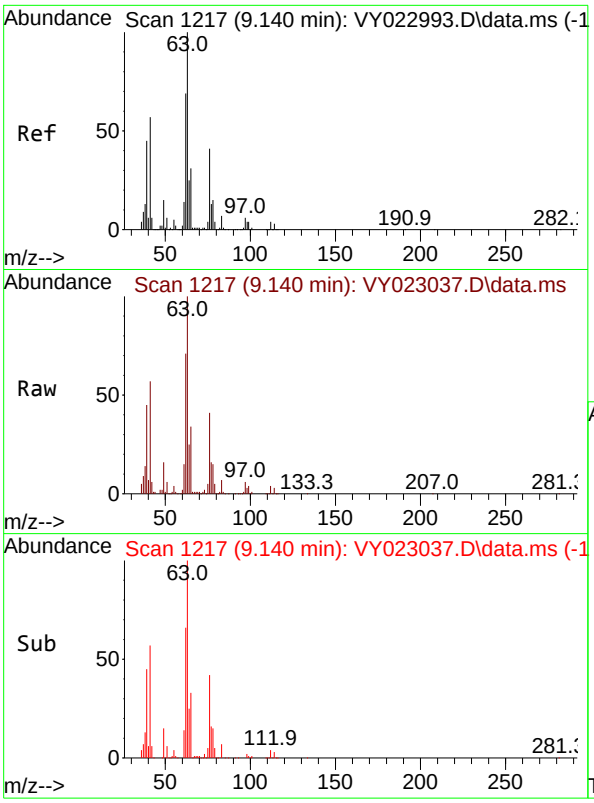


#44
Trichloroethene
Concen: 45.298 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:130 Resp: 213038

Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	195.8





#45
1,2-Dichloropropane
Concen: 49.079 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

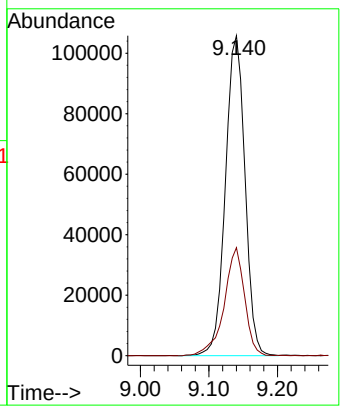
Tgt Ion: 63 Resp: 20985

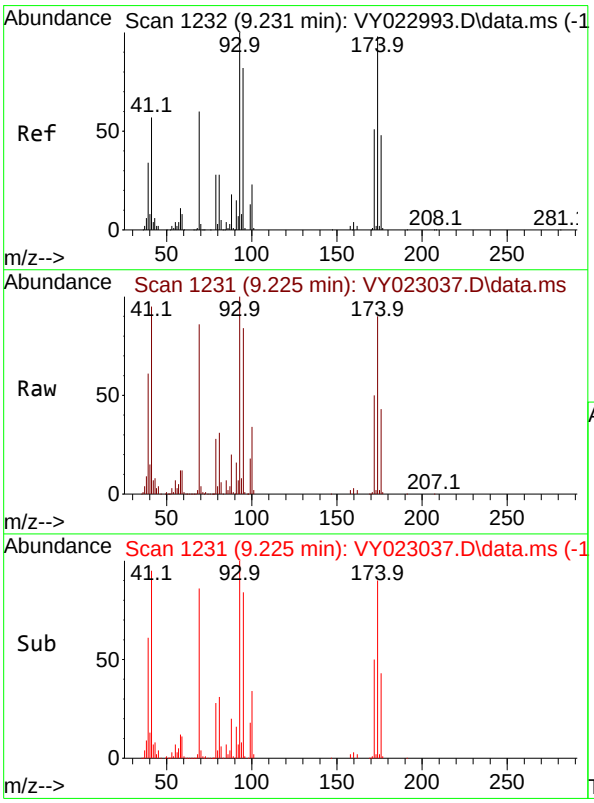
Ion	Ratio	Lower	Upper
63	100		
65	33.7	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

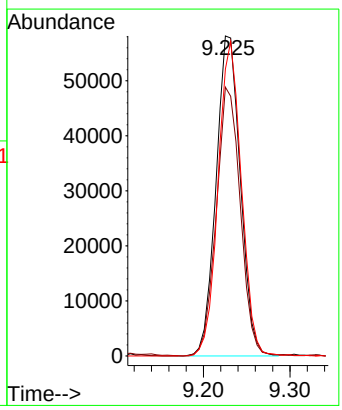


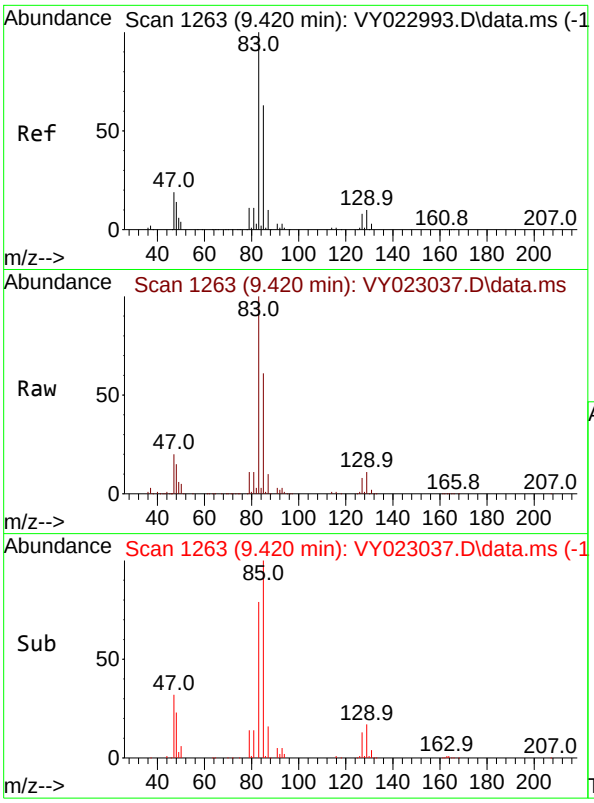


#46
Dibromomethane
Concen: 51.242 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 93 Resp: 113255

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.9	98.9
174	94.1	76.4	114.6

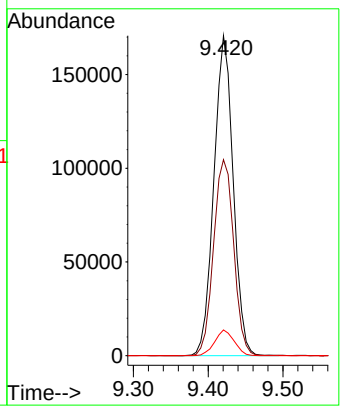




#47
Bromodichloromethane
Concen: 50.179 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 83 Resp: 30656

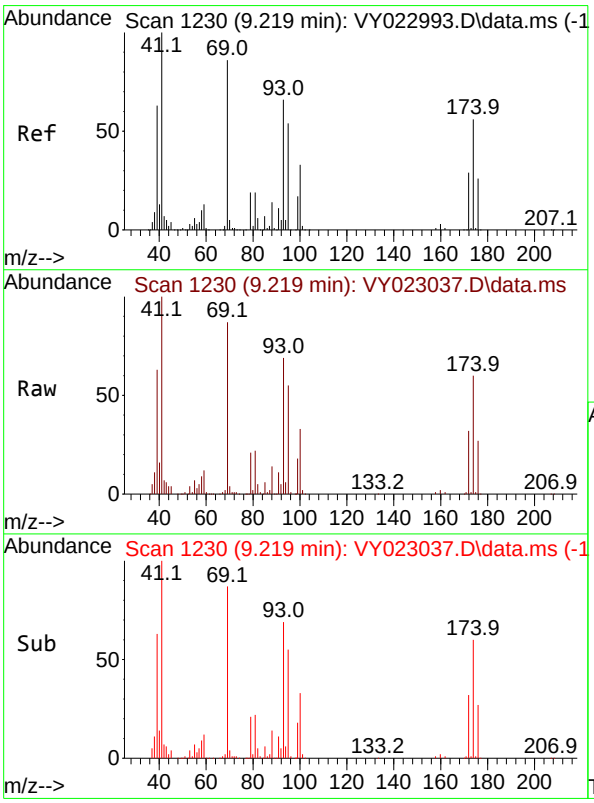
Ion	Ratio	Lower	Upper
83	100		
85	61.2	50.6	75.8
127	8.1	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

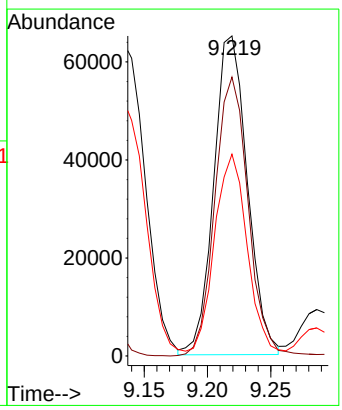
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

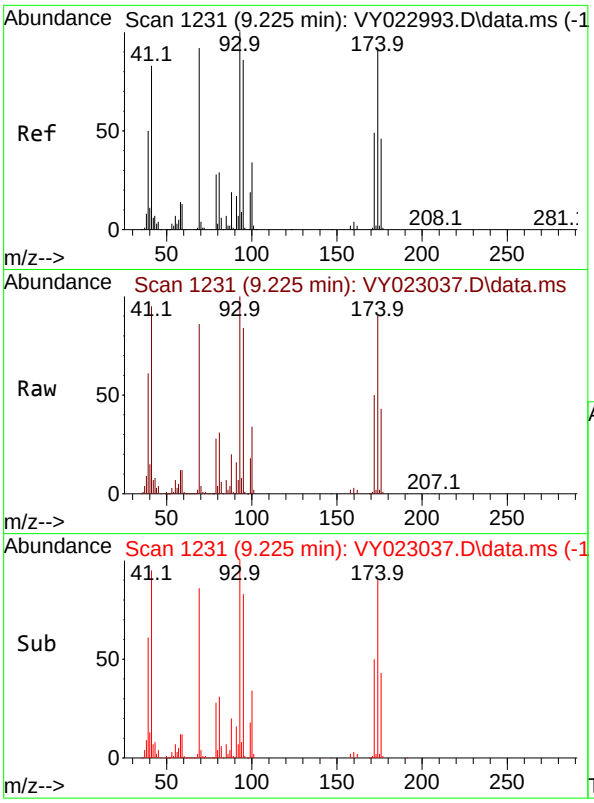


#48
Methyl methacrylate
Concen: 55.511 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 41 Resp: 120235

Ion	Ratio	Lower	Upper
41	100		
69	86.8	71.4	107.0
39	59.3	47.8	71.8





#49
1,4-Dioxane
Concen: 1093.044 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

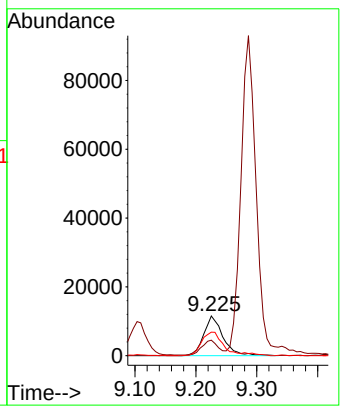
Tgt Ion: 88 Resp: 2546

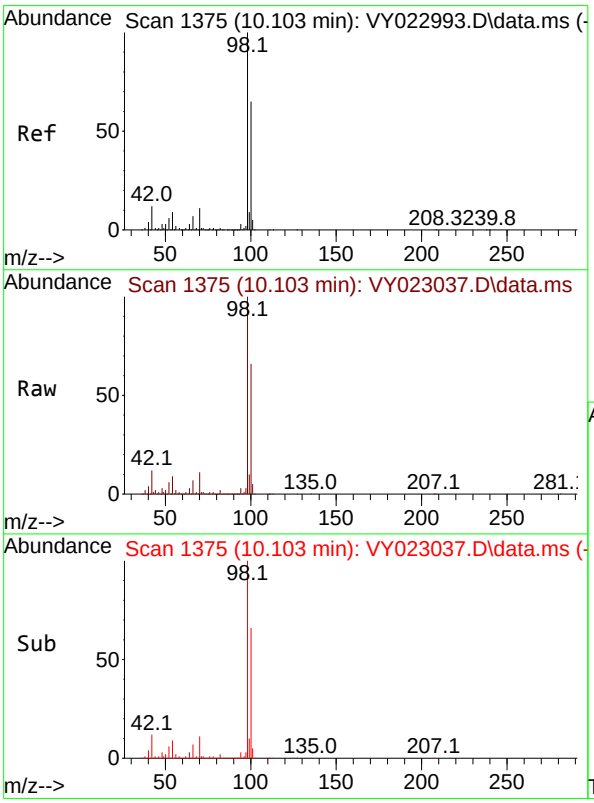
Ion	Ratio	Lower	Upper
88	100		
43	32.3	28.7	43.1
58	64.6	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

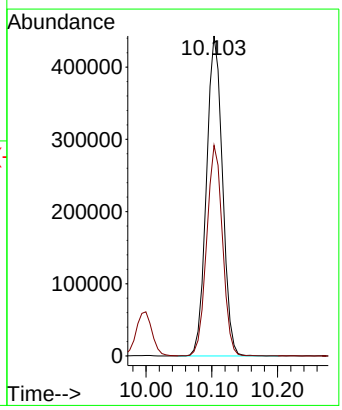


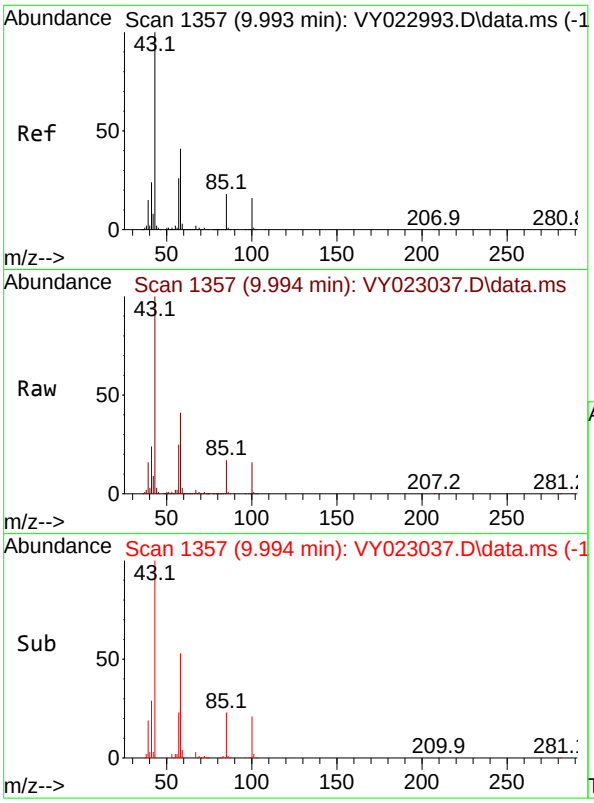


#50
Toluene-d8
Concen: 49.009 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 98 Resp: 750336

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.2

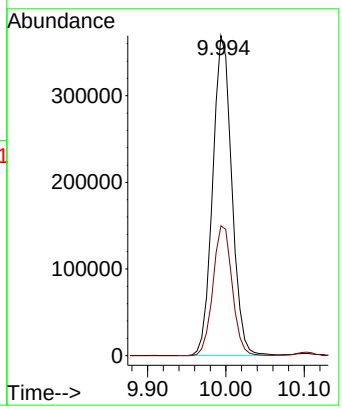




#51
4-Methyl-2-Pentanone
Concen: 274.629 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 62536

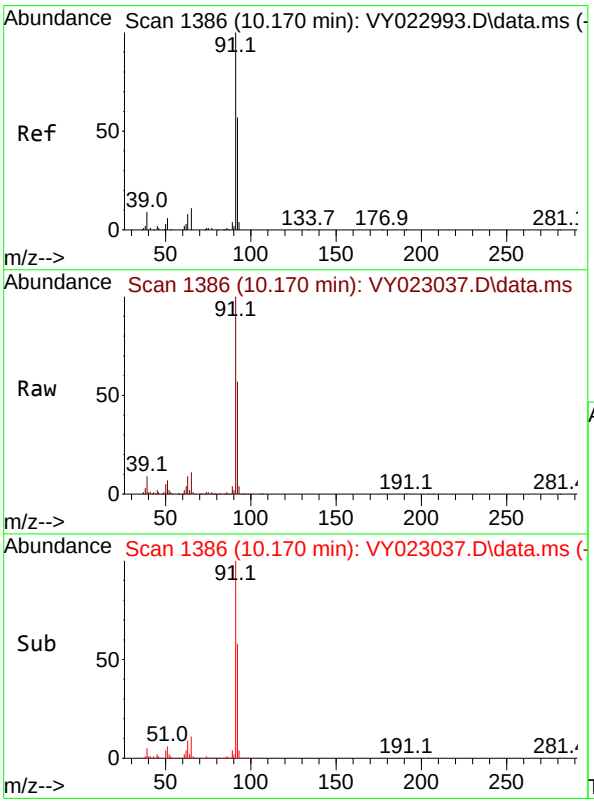
Ion	Ratio	Lower	Upper
43	100		
58	41.0	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

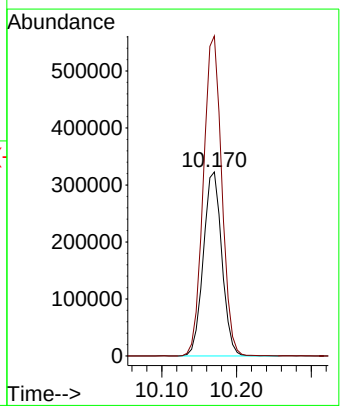
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

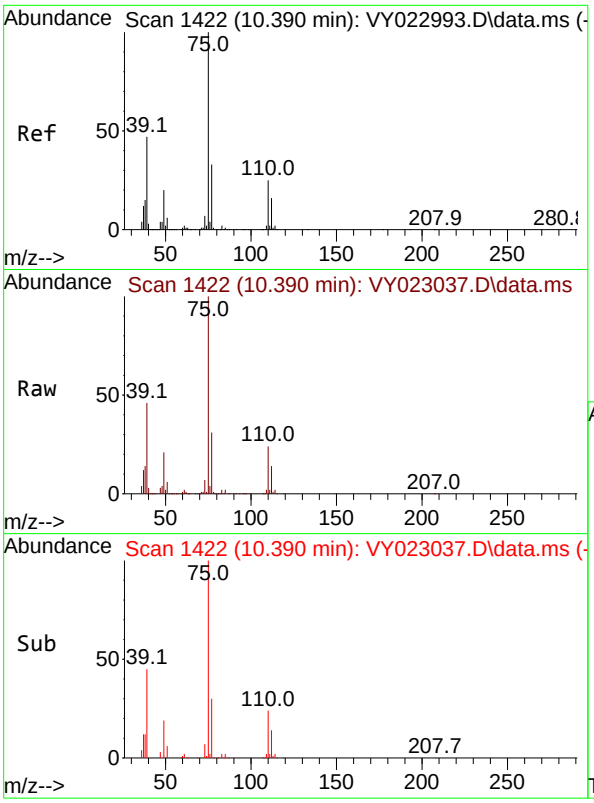


#52
Toluene
Concen: 48.565 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 92 Resp: 552862

Ion	Ratio	Lower	Upper
92	100		
91	173.3	137.8	206.6





#53
t-1,3-Dichloropropene
Concen: 49.912 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

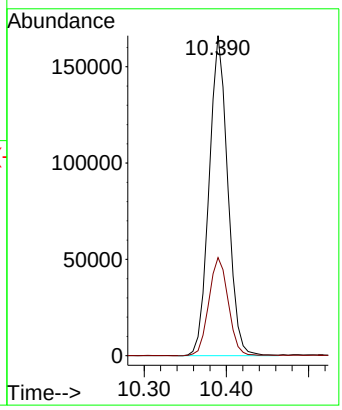
Tgt Ion: 75 Resp: 26175

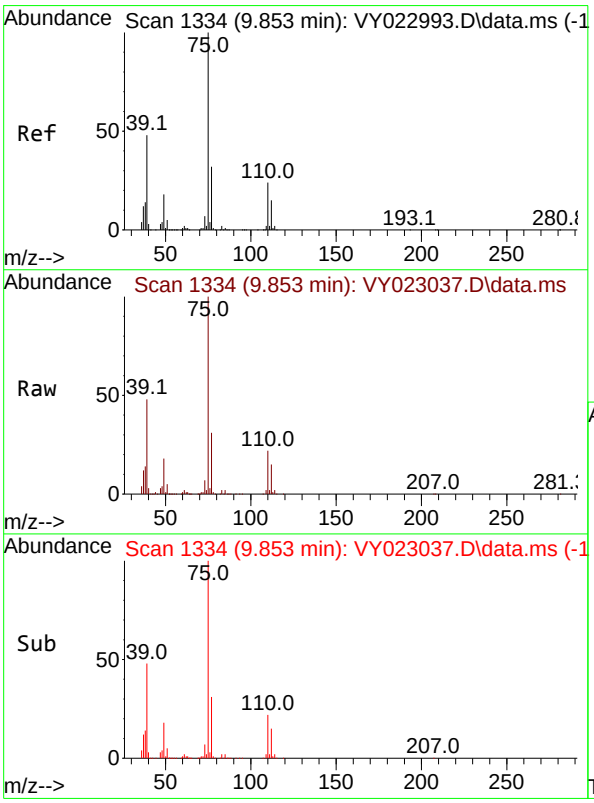
Ion	Ratio	Lower	Upper
75	100		
77	30.6	26.4	39.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

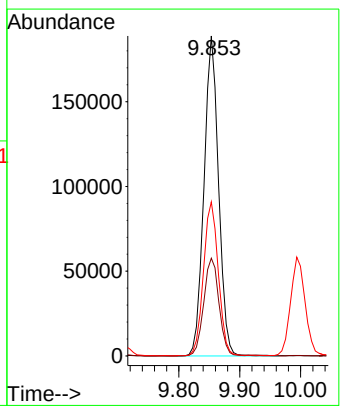


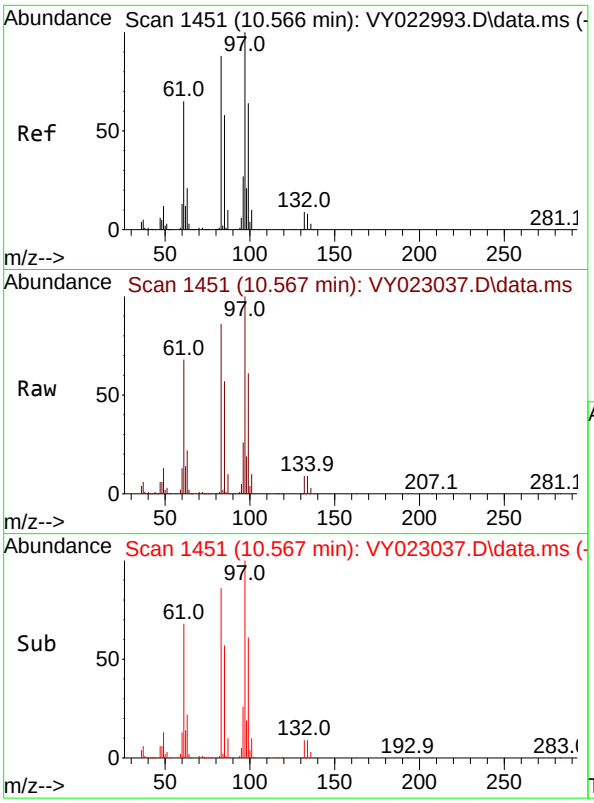


#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 314351

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.4	38.0
39	48.0	38.2	57.2

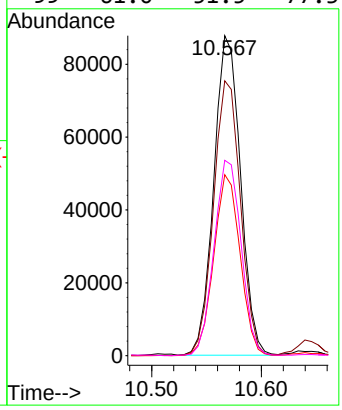




#55
1,1,2-Trichloroethane
Concen: 51.144 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 97 Resp: 14857

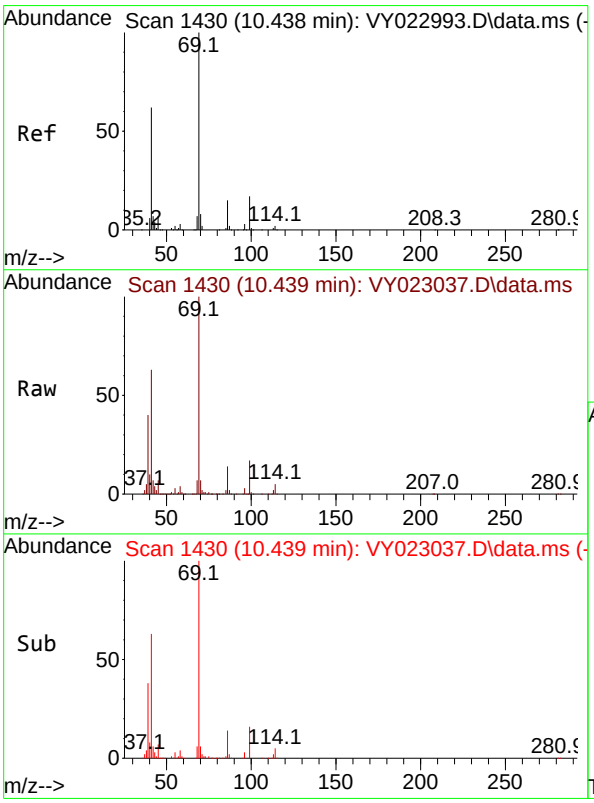
Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.2	105.2
85	56.6	46.2	69.2
99	61.0	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

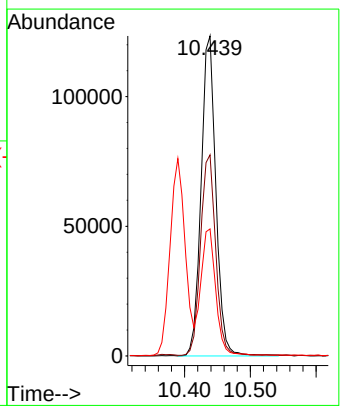
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

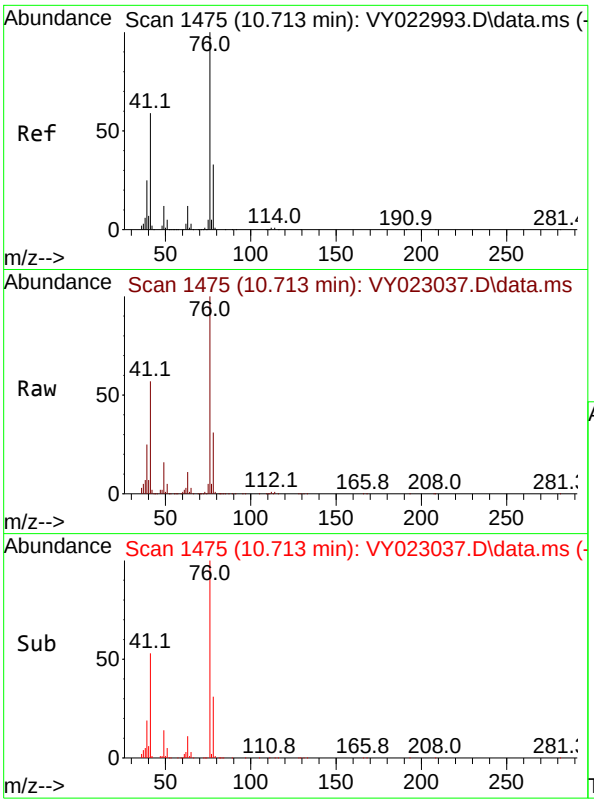


#56
Ethyl methacrylate
Concen: 53.131 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 69 Resp: 192668

Ion	Ratio	Lower	Upper
69	100		
41	64.2	51.0	76.4
39	39.8	30.6	46.0





#57
1,3-Dichloropropane
Concen: 52.107 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

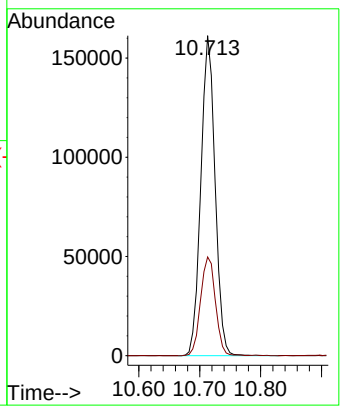
Tgt Ion: 76 Resp: 26148

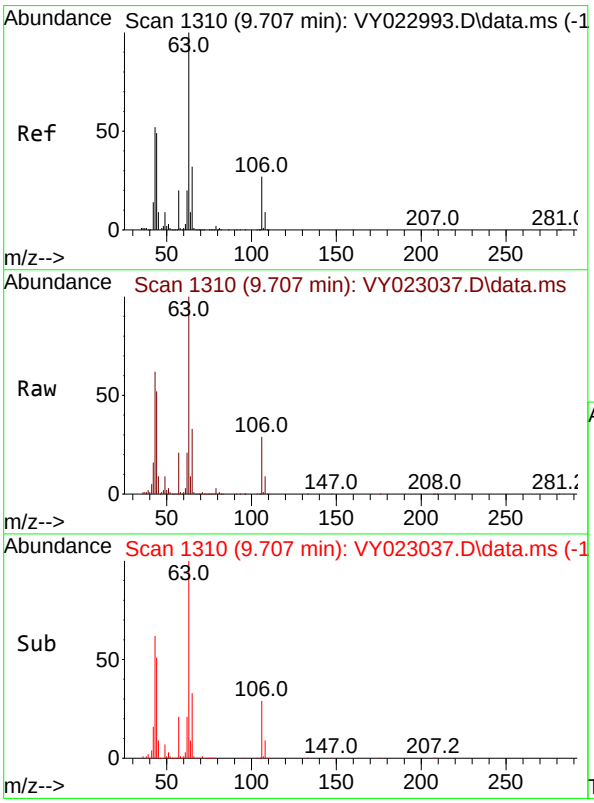
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

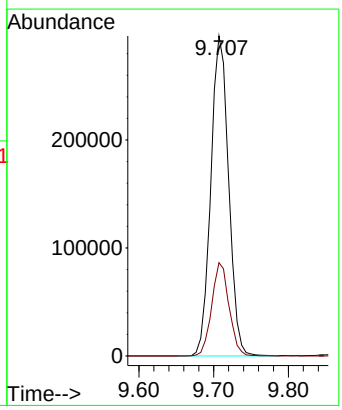


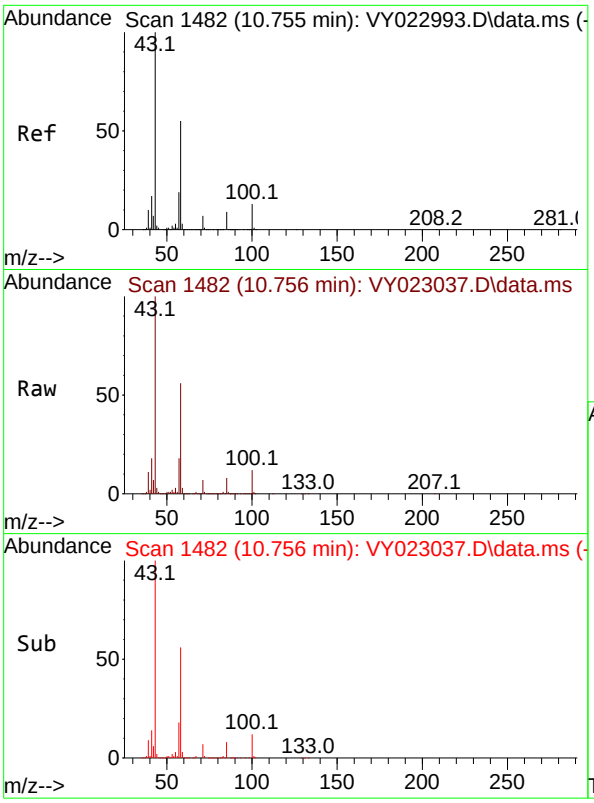


#58
2-Chloroethyl Vinyl ether
Concen: 276.893 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 63 Resp: 491519

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.6	33.8





#59
2-Hexanone
Concen: 275.436 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

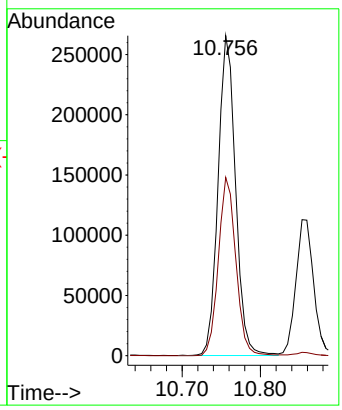
Tgt Ion: 43 Resp: 41227

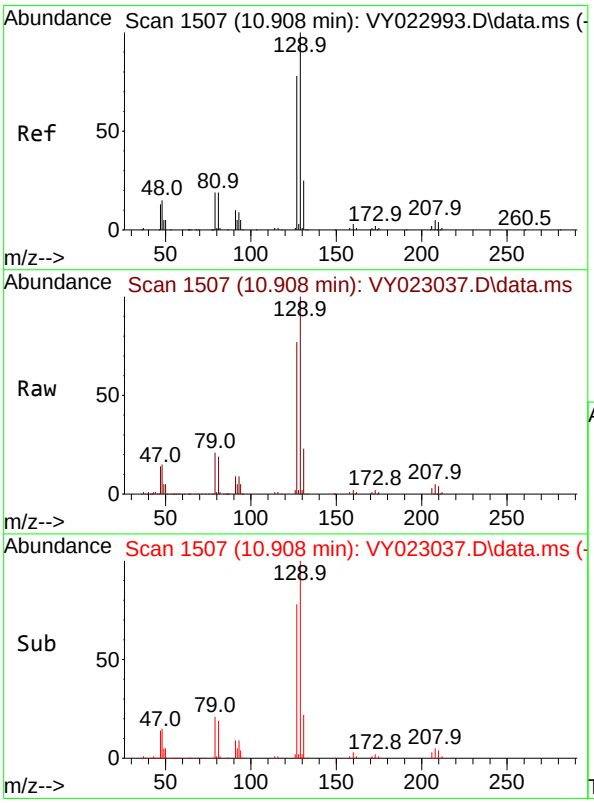
Ion	Ratio	Lower	Upper
43	100		
58	55.9	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

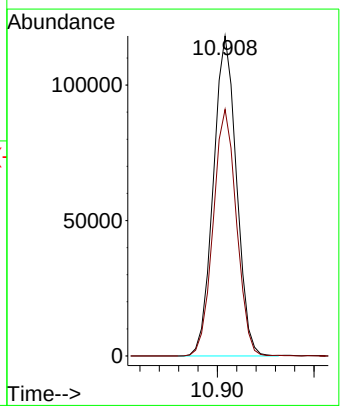


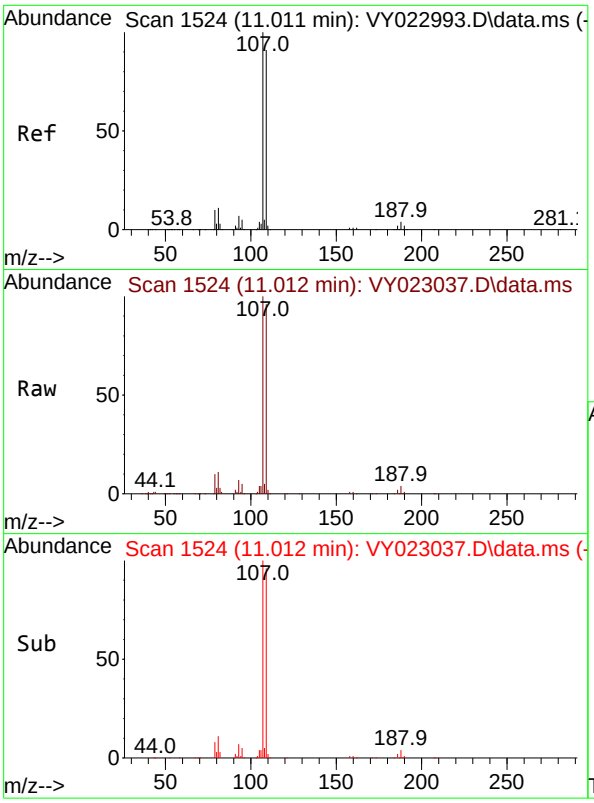


#60
Dibromochloromethane
Concen: 51.572 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:129 Resp: 196174

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.7	116.1

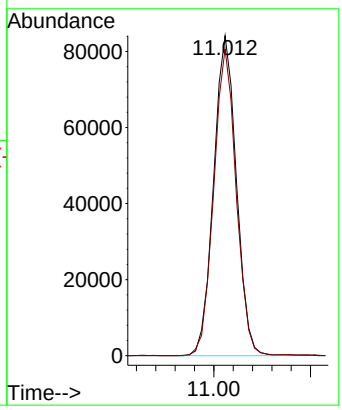




#61
1,2-Dibromoethane
Concen: 51.963 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:107 Resp: 13707

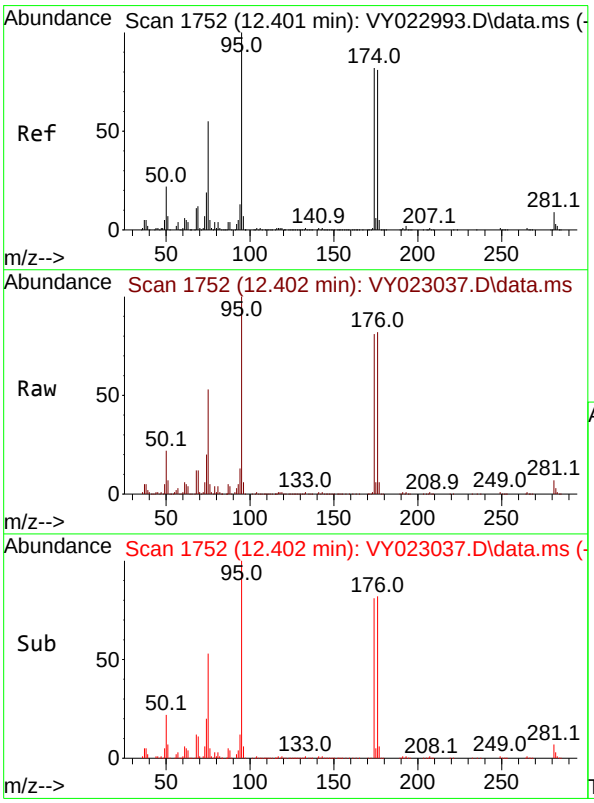
Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

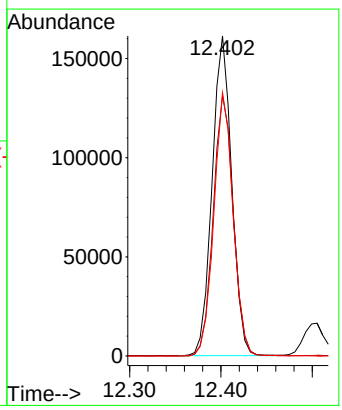
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

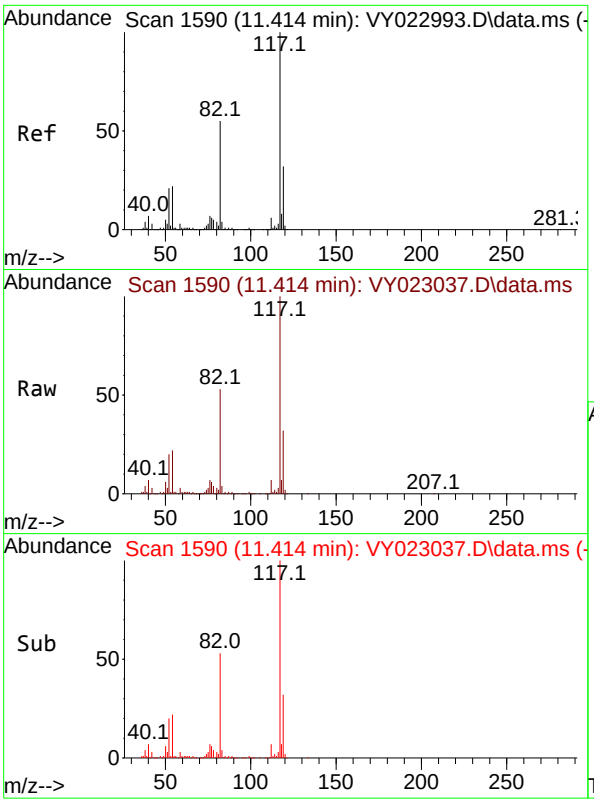


#62
4-Bromofluorobenzene
Concen: 49.795 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 95 Resp: 239984

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	170.8
176	81.0	0.0	163.6

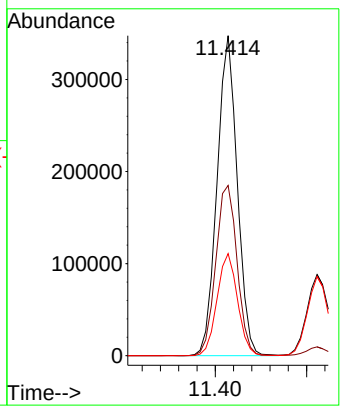




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:117 Resp: 53434

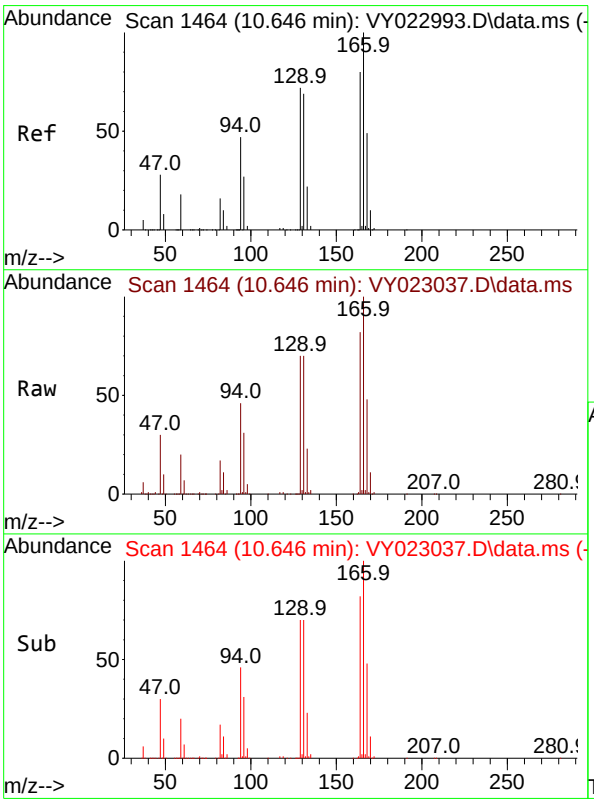
Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.3	66.5
119	31.9	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

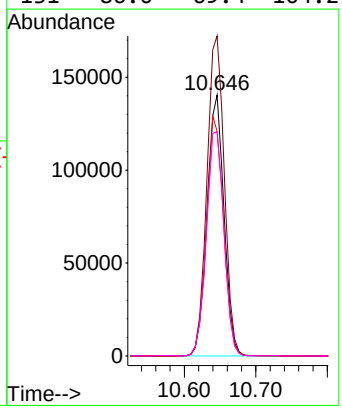
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

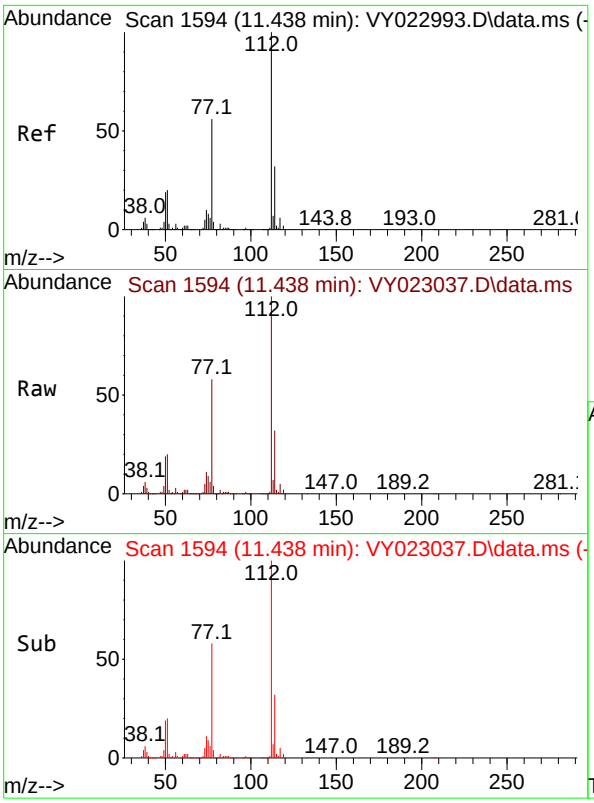


#64
Tetrachloroethene
Concen: 42.158 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:164 Resp: 230259

Ion	Ratio	Lower	Upper
164	100		
166	122.6	100.2	150.2
129	86.1	71.7	107.5
131	86.0	69.4	104.2

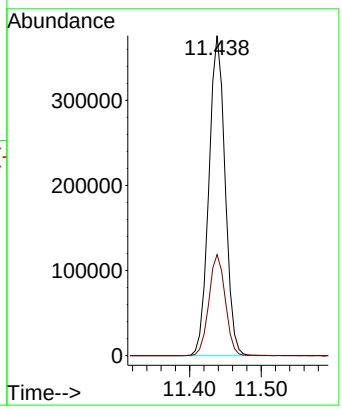




#65
Chlorobenzene
Concen: 46.874 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:112 Resp: 59103

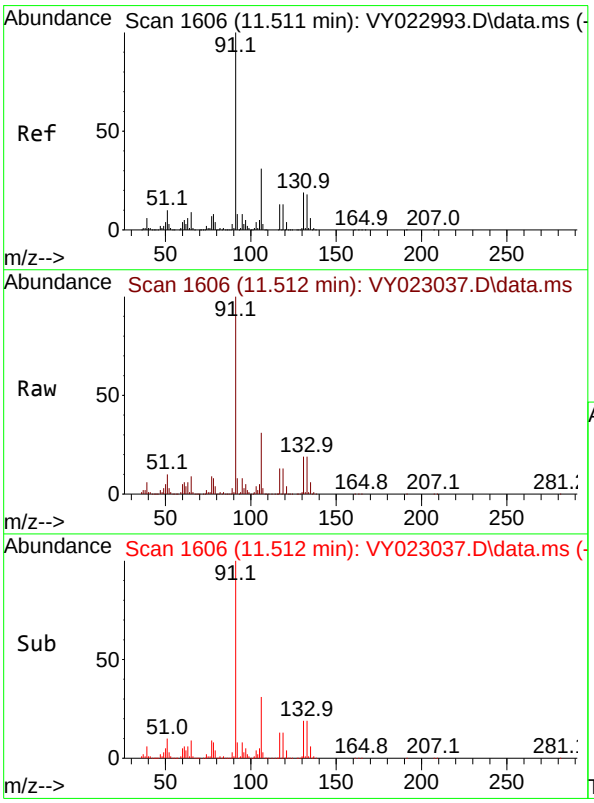
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

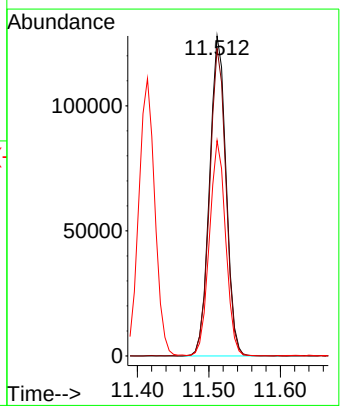
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

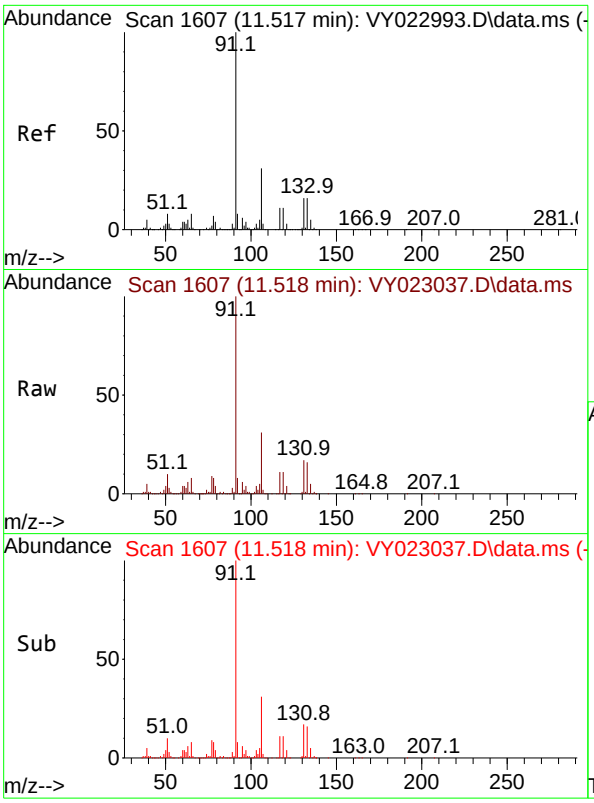


#66
1,1,1,2-Tetrachloroethane
Concen: 47.714 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:131 Resp: 205201

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.8	143.3
119	66.3	33.3	99.8

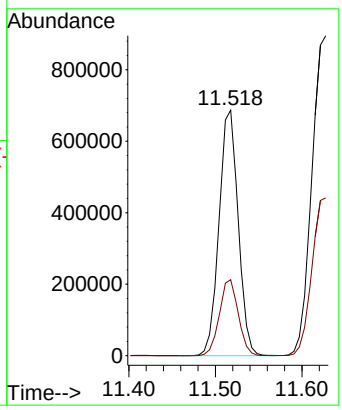




#67
Ethyl Benzene
Concen: 47.175 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 91 Resp: 105433

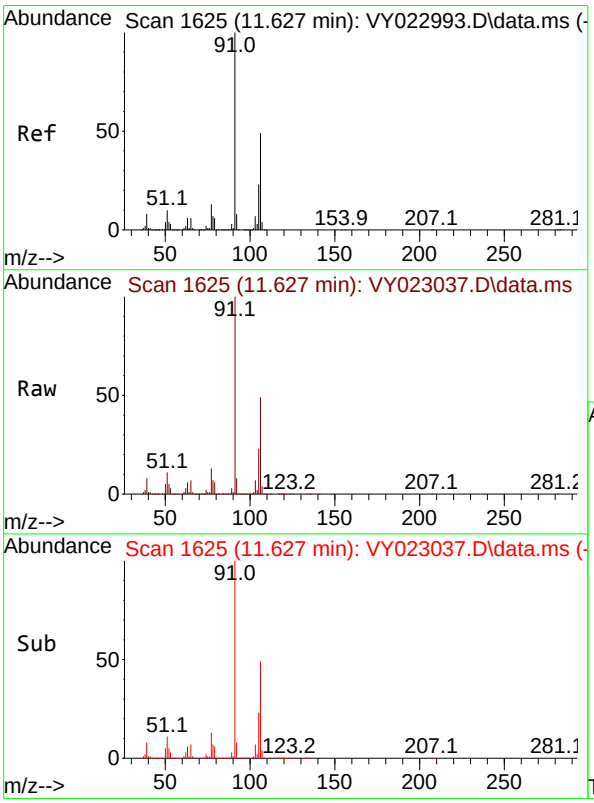
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

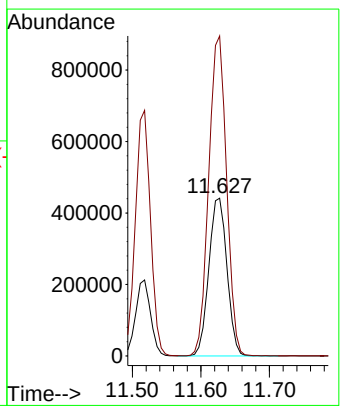
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

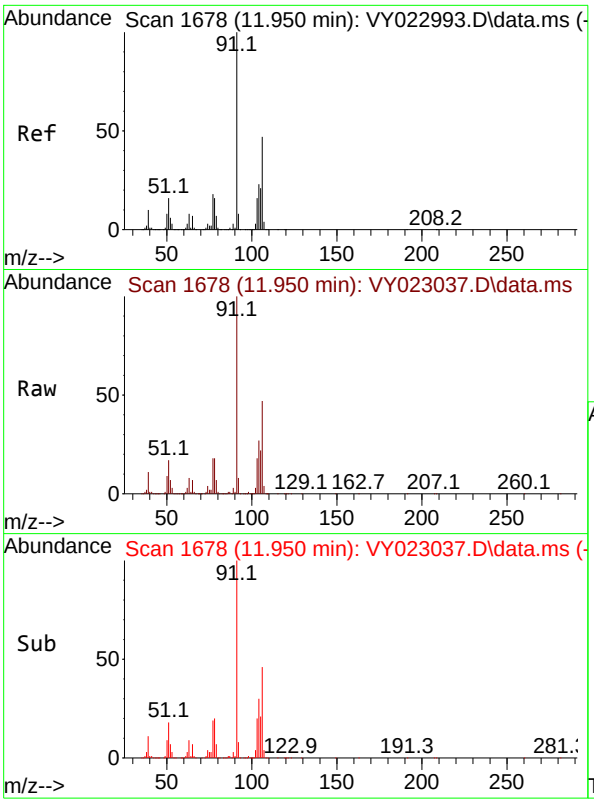


#68
m/p-Xylenes
Concen: 94.459 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:106 Resp: 809746

Ion	Ratio	Lower	Upper
106	100		
91	200.0	159.8	239.8

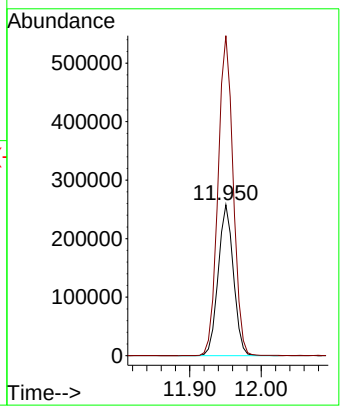




#69
o-Xylene
Concen: 47.923 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:106 Resp: 38126

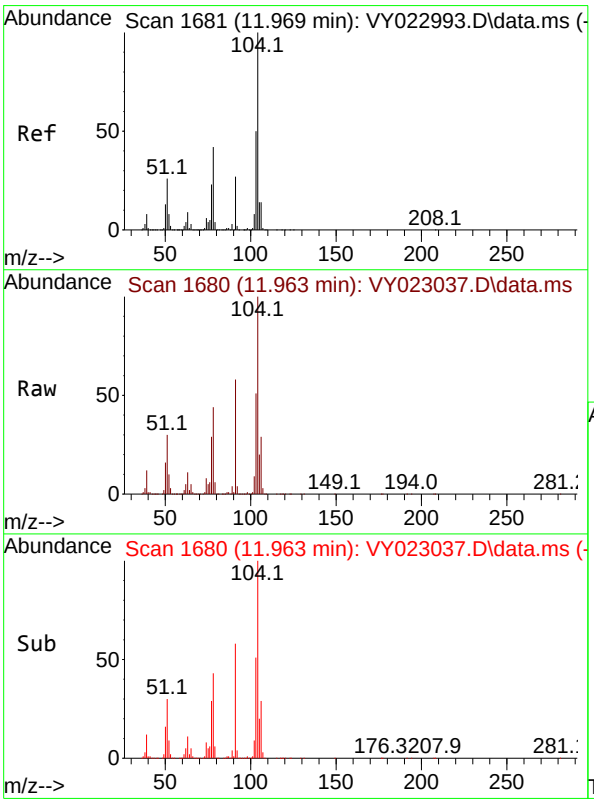
Ion	Ratio	Lower	Upper
106	100		
91	211.5	106.3	318.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

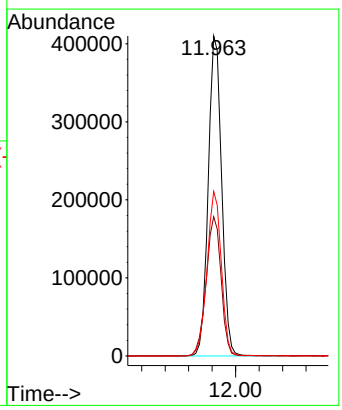
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

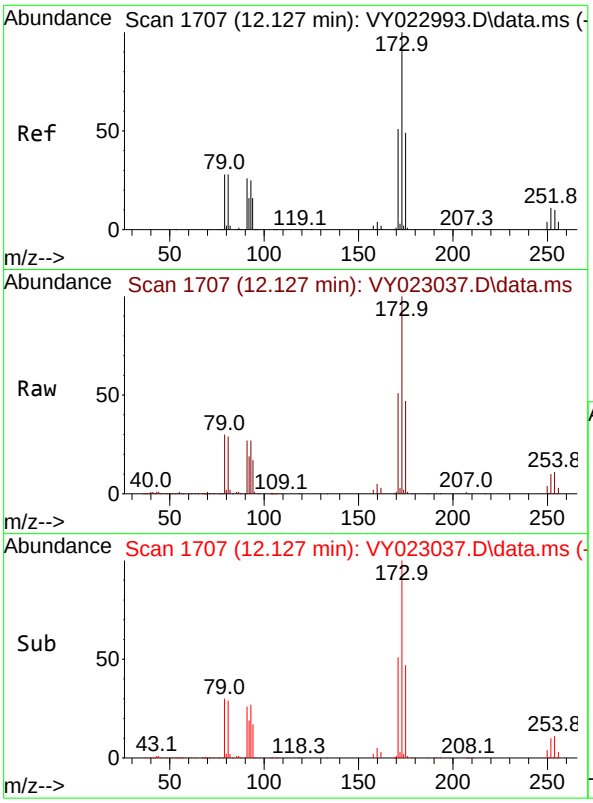


#70
Styrene
Concen: 49.878 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:104 Resp: 649988

Ion	Ratio	Lower	Upper
104	100		
78	48.2	39.0	58.6
103	54.7	43.7	65.5





#71
Bromoform
Concen: 49.216 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

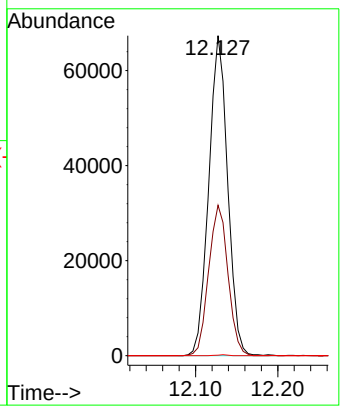
Tgt Ion:173 Resp: 10745

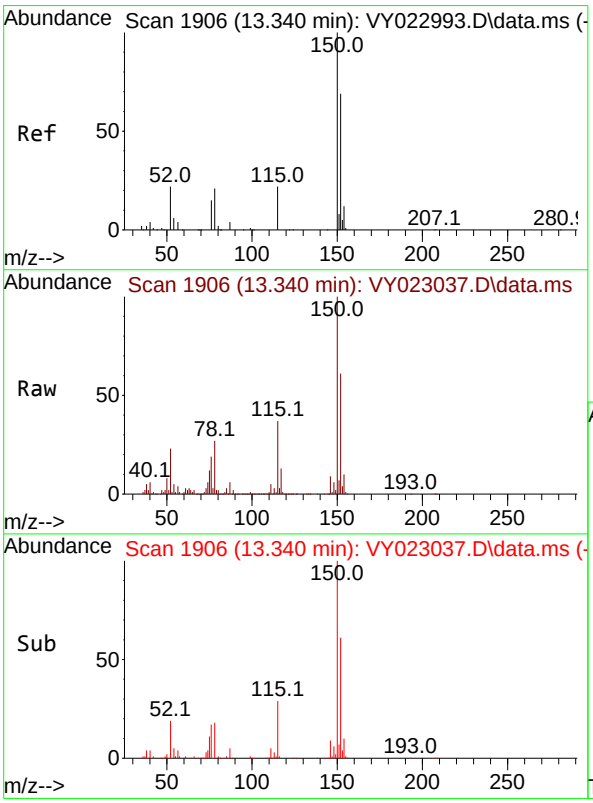
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.6	73.8
254	0.1	0.2	0.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

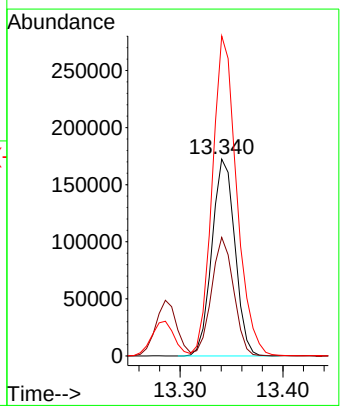


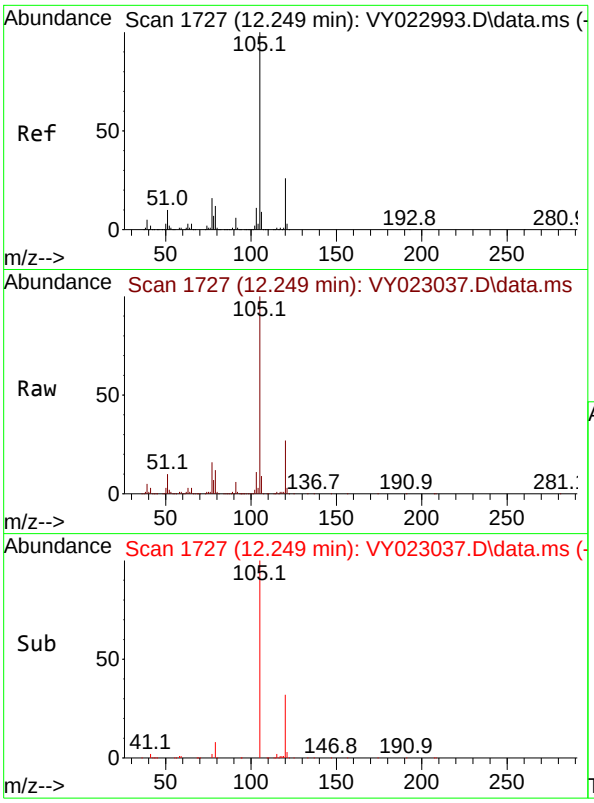


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:152 Resp: 267706

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	172.1	0.0	350.0

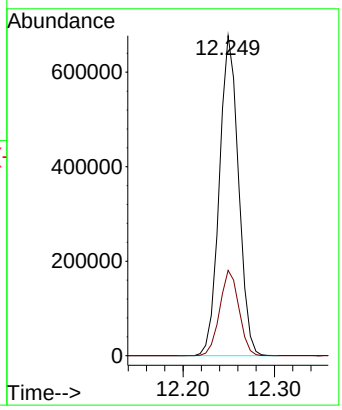




#73
Isopropylbenzene
Concen: 43.555 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:105 Resp: 98856

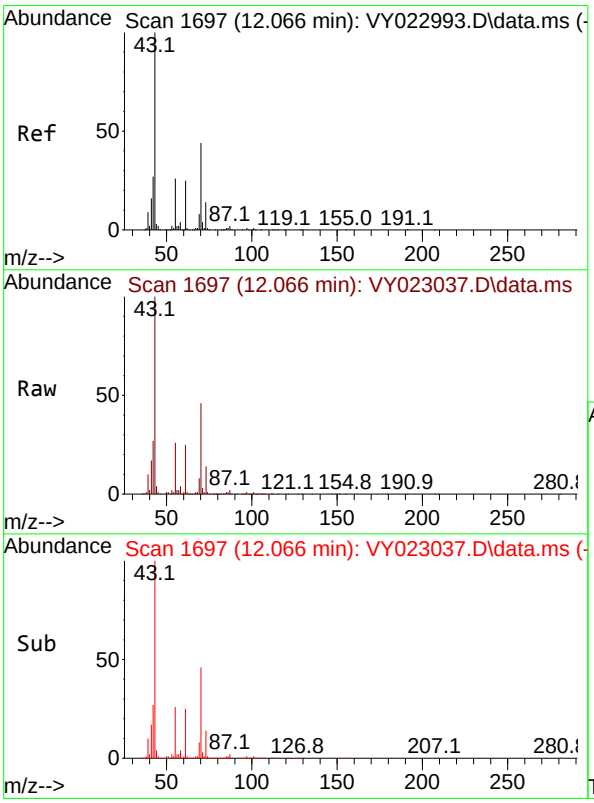
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

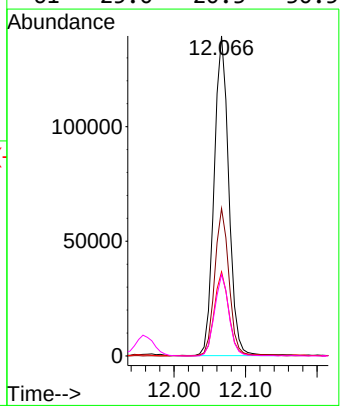
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

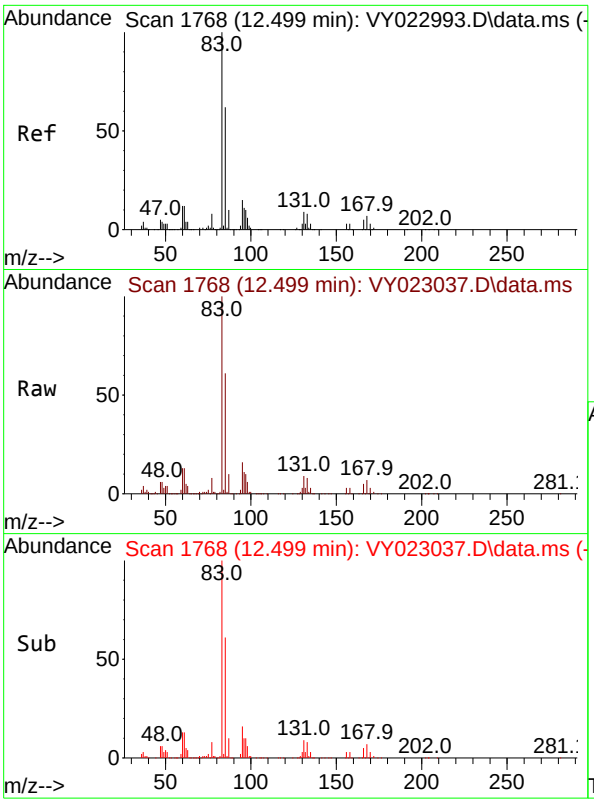


#74
N-amyl acetate
Concen: 46.366 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 198406

Ion	Ratio	Lower	Upper
43	100		
70	45.3	36.2	54.2
55	26.4	20.9	31.3
61	25.0	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 49.344 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

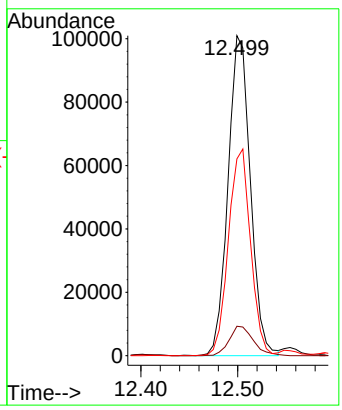
Tgt Ion: 83 Resp: 16207

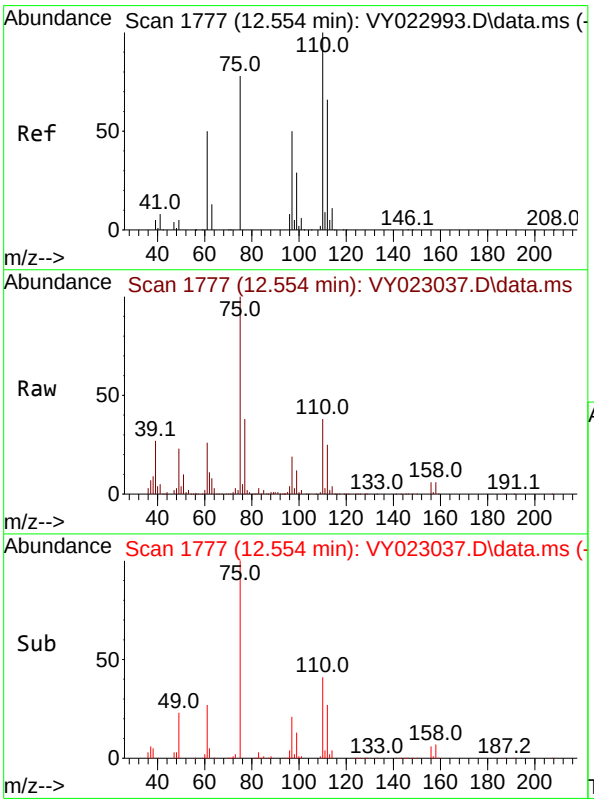
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	64.0	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

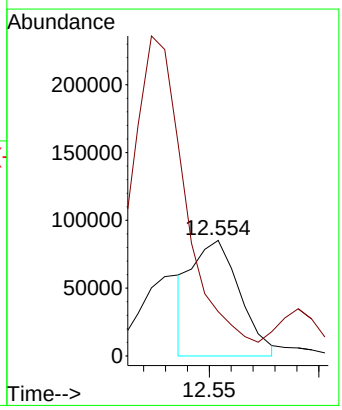


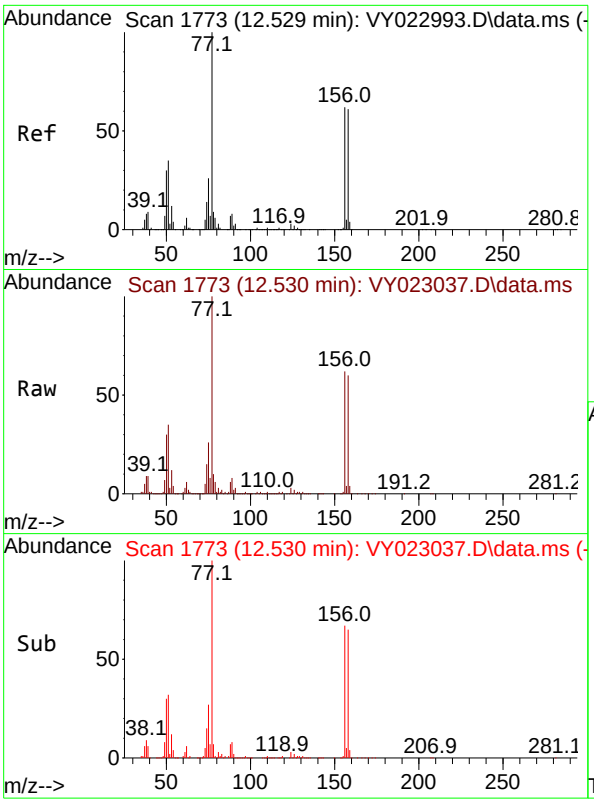


#76
1,2,3-Trichloropropane
Concen: 38.703 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 129107

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

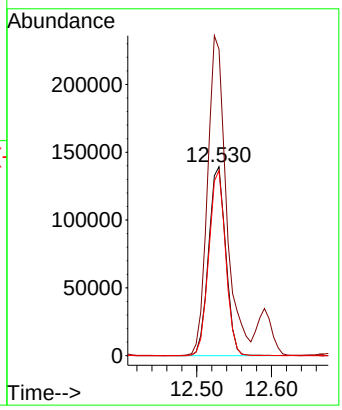




#77
Bromobenzene
Concen: 45.064 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:156 Resp: 22183

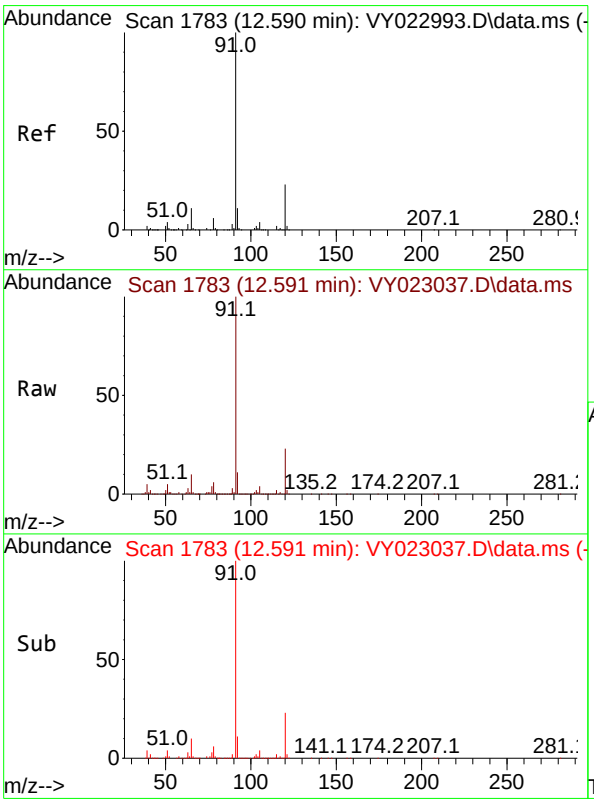
Ion	Ratio	Lower	Upper
156	100		
77	186.1	92.0	276.1
158	95.9	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

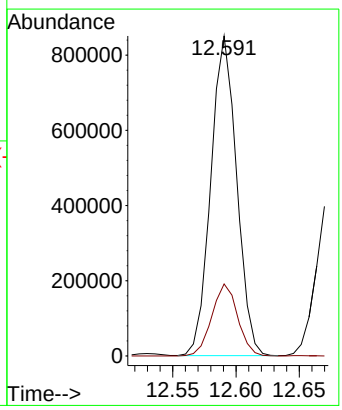
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

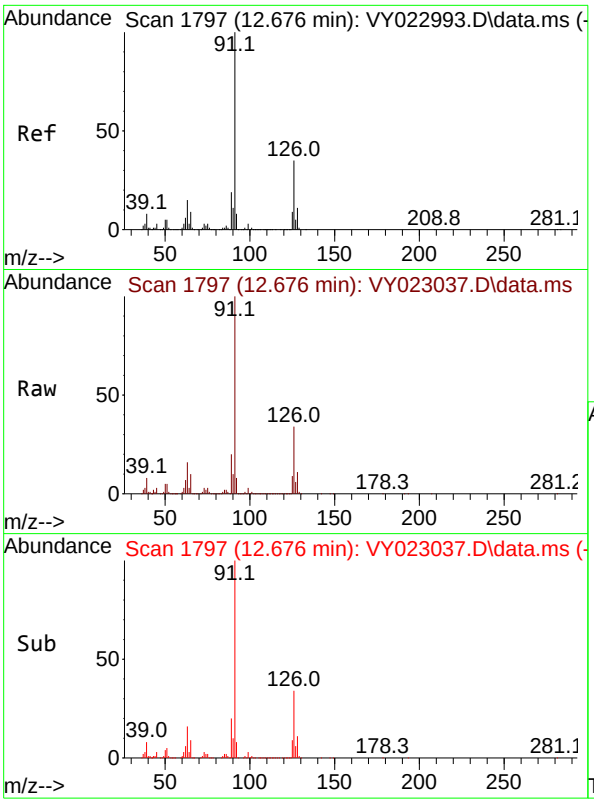


#78
n-propylbenzene
Concen: 44.738 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 91 Resp: 1209202

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8





#79
2-Chlorotoluene
Concen: 44.254 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

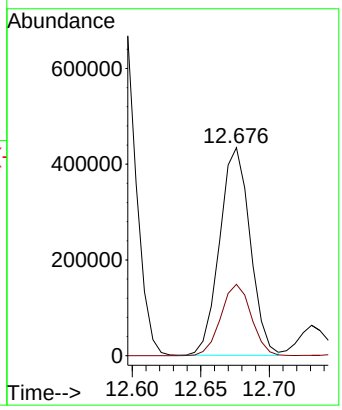
Tgt Ion: 91 Resp: 67271

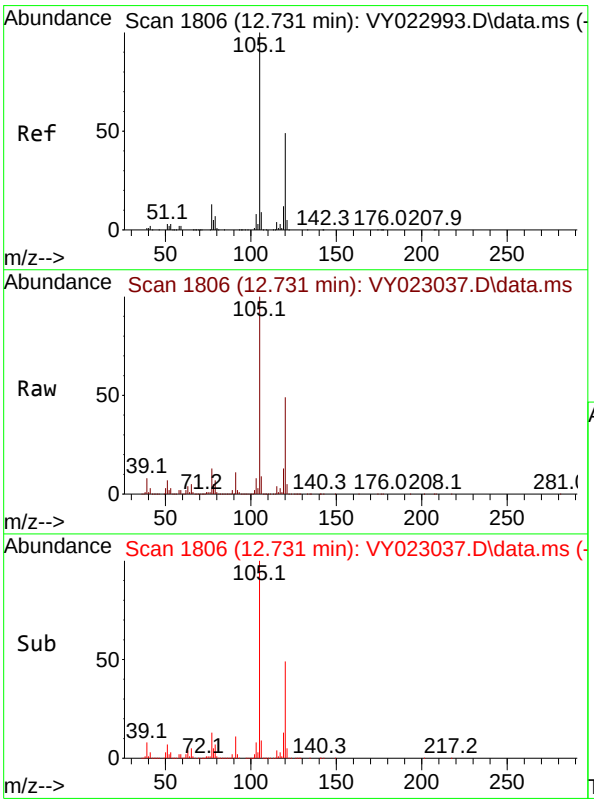
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

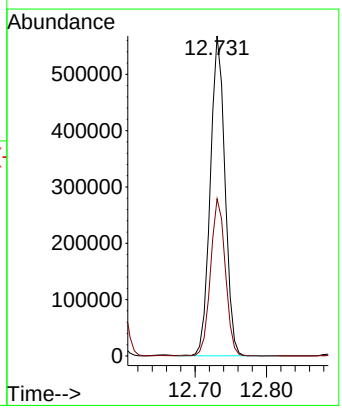


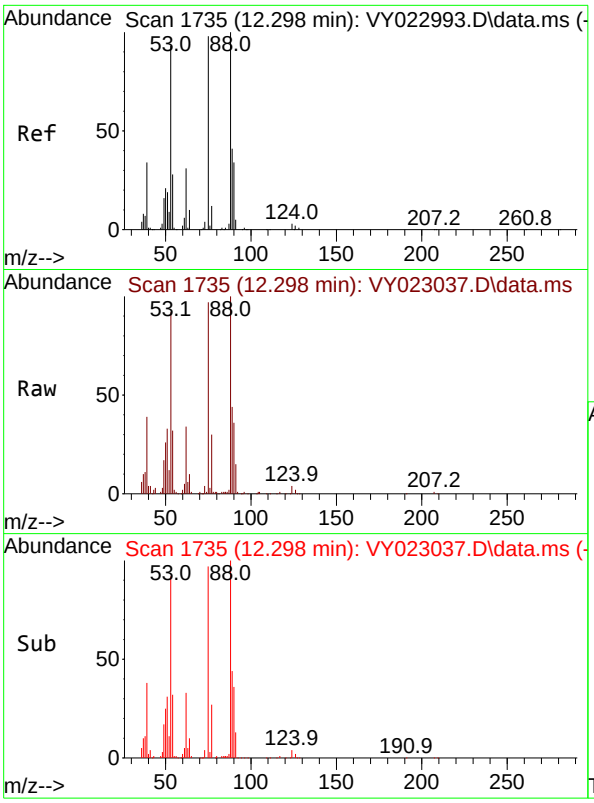


#80
1,3,5-Trimethylbenzene
Concen: 45.137 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:105 Resp: 807990

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.6	73.8

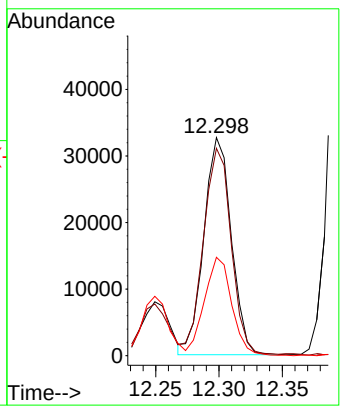




#81
trans-1,4-Dichloro-2-butene
Concen: 43.976 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 4925

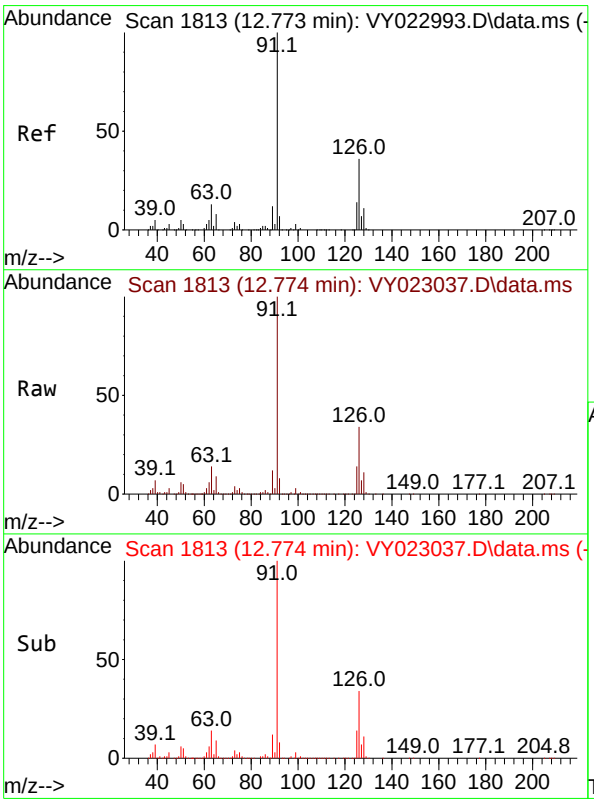
Ion	Ratio	Lower	Upper
75	100		
53	95.8	76.1	114.1
89	45.2	36.1	54.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

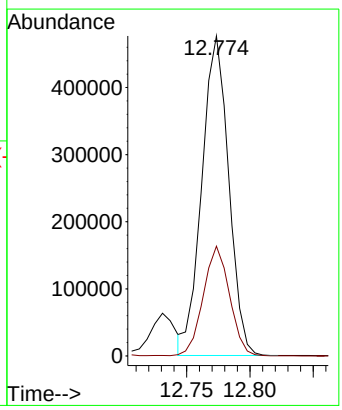
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

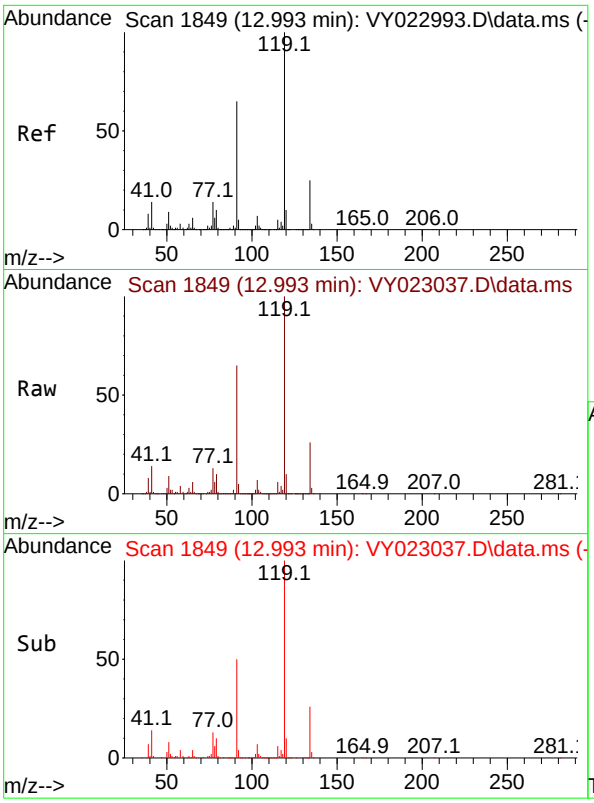


#82
4-Chlorotoluene
Concen: 45.832 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 91 Resp: 702672

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.2	51.5

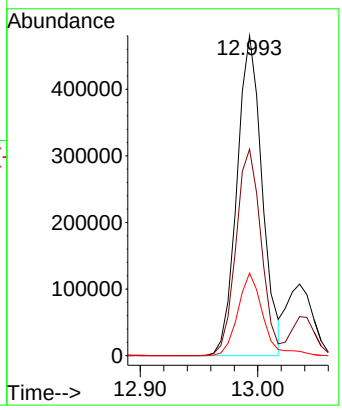




#83
tert-Butylbenzene
Concen: 44.206 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:119 Resp: 71479

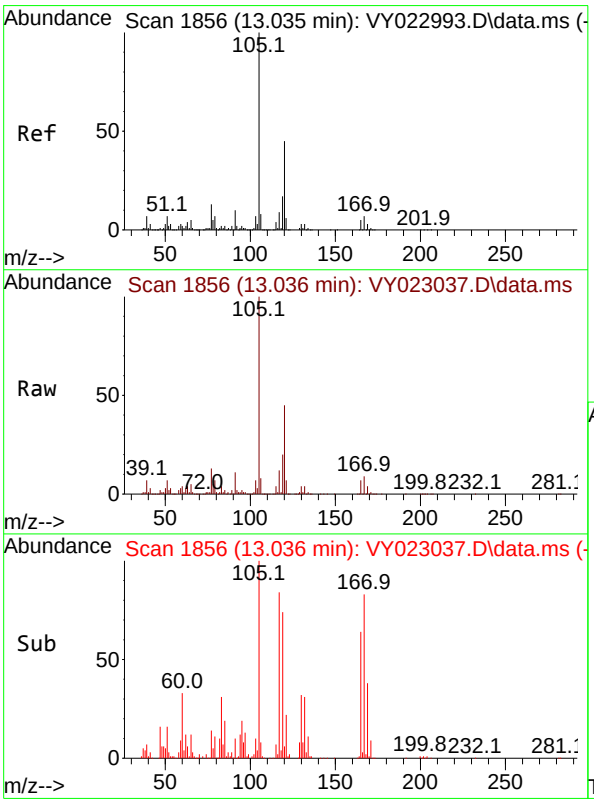
Ion	Ratio	Lower	Upper
119	100		
91	64.5	32.0	96.2
134	25.9	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

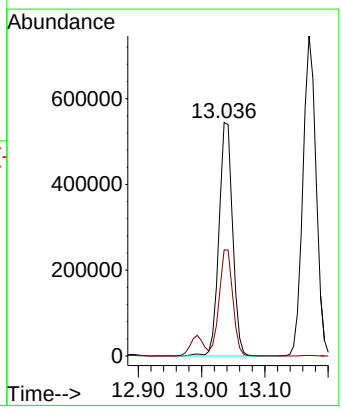
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

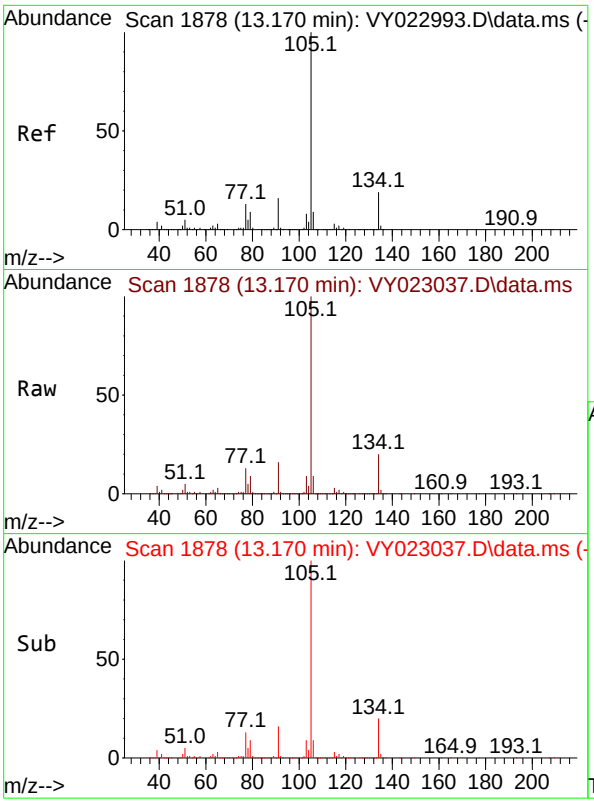


#84
1,2,4-Trimethylbenzene
Concen: 45.996 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:105 Resp: 810500

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8

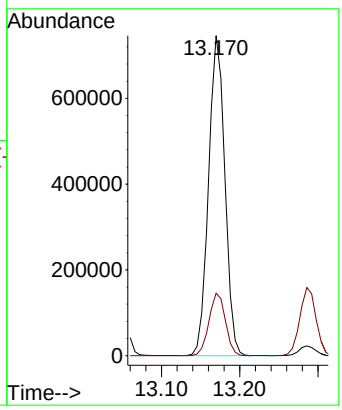




#85
sec-Butylbenzene
Concen: 44.401 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:105 Resp: 107589

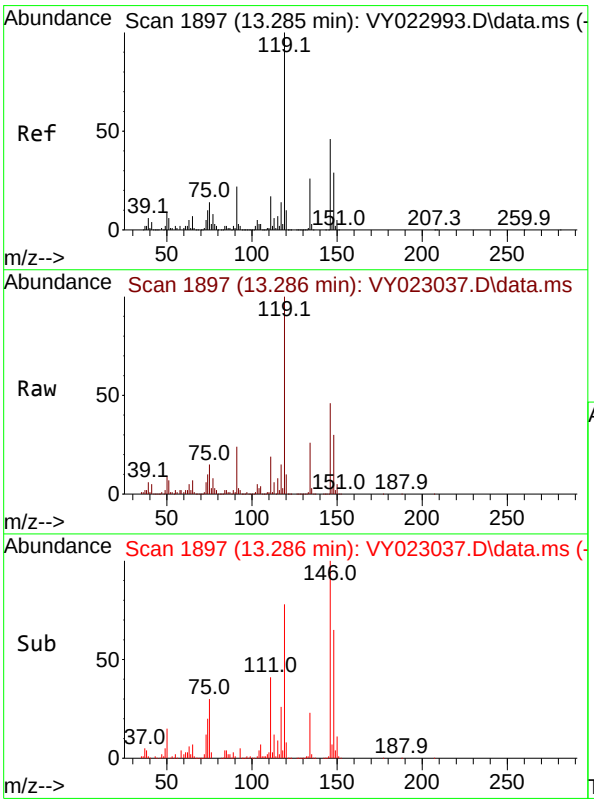
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

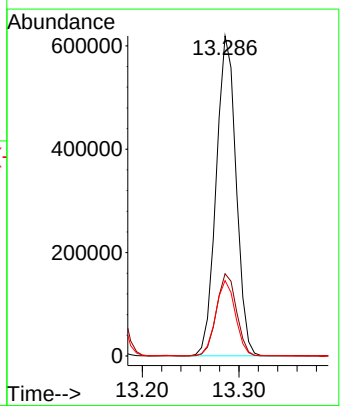
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

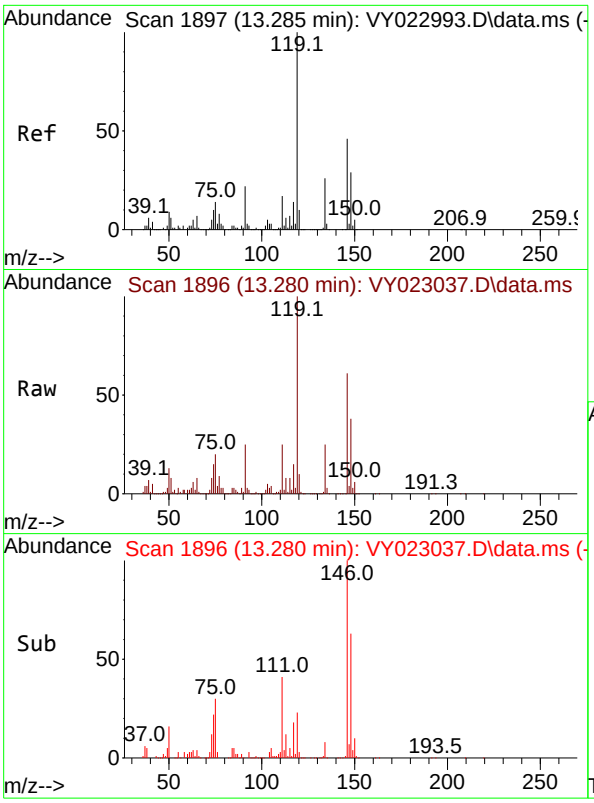


#86
p-Isopropyltoluene
Concen: 44.848 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:119 Resp: 882609

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.1	39.1
91	23.3	11.4	34.1

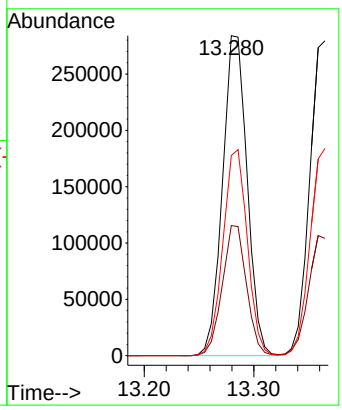




#87
1,3-Dichlorobenzene
Concen: 44.606 ug/l
RT: 13.280 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:146 Resp: 44313

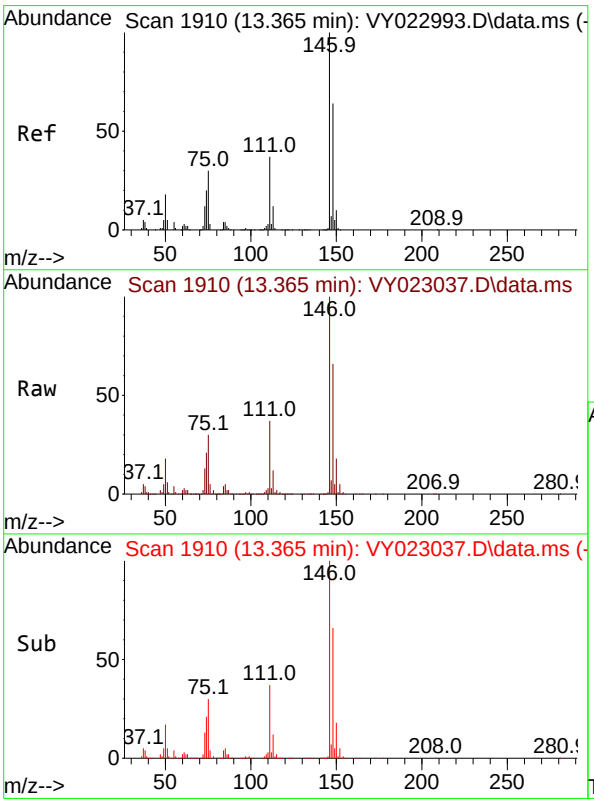
Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.8	59.3
148	63.8	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

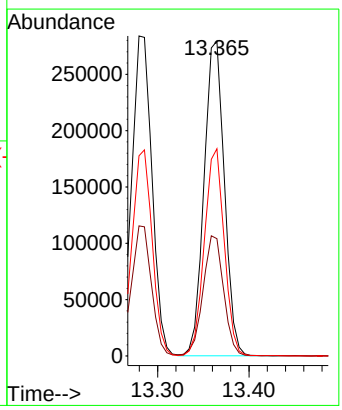
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

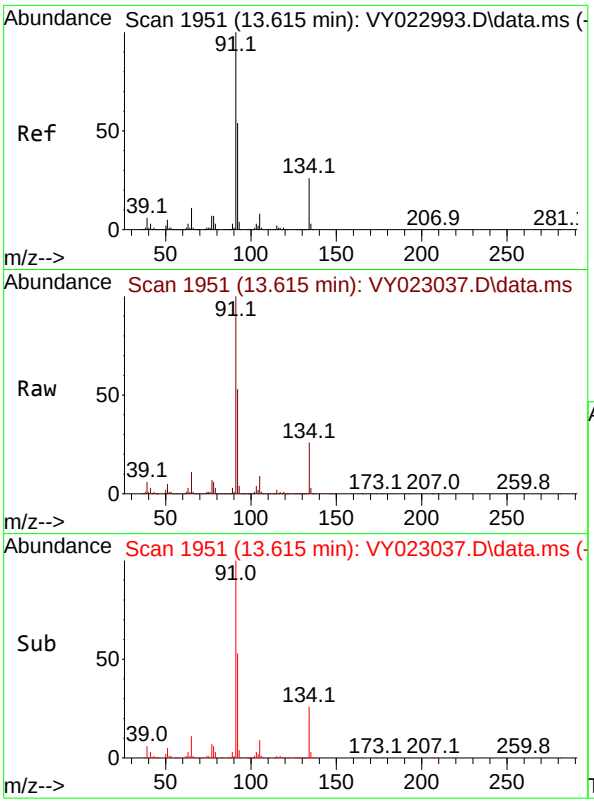


#88
1,4-Dichlorobenzene
Concen: 44.810 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:146 Resp: 430652

Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.2	57.6
148	64.7	31.9	95.5

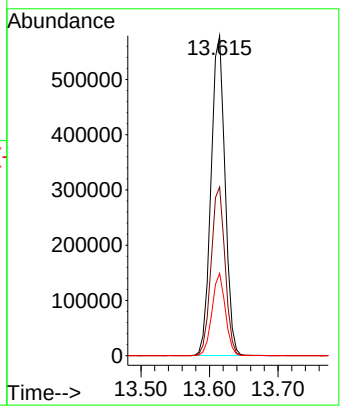




#89
n-Butylbenzene
Concen: 45.418 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 91 Resp: 82478

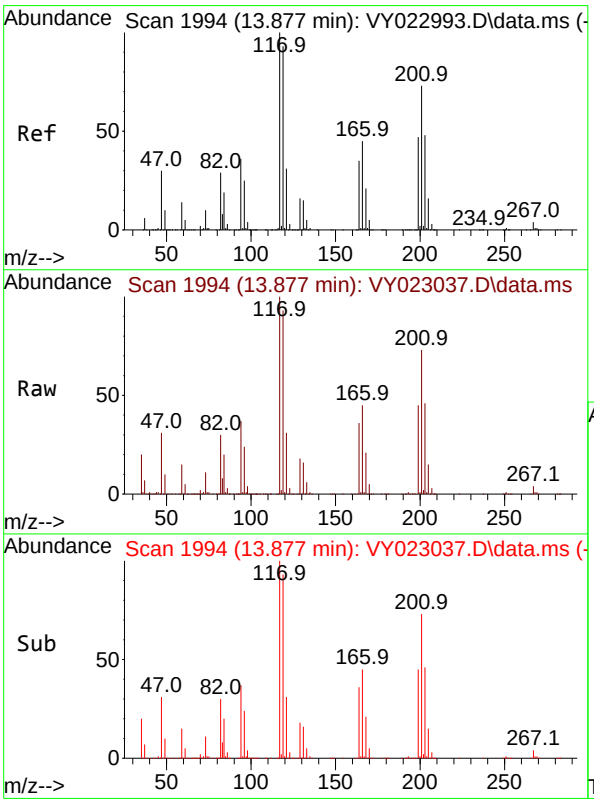
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	24.7	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

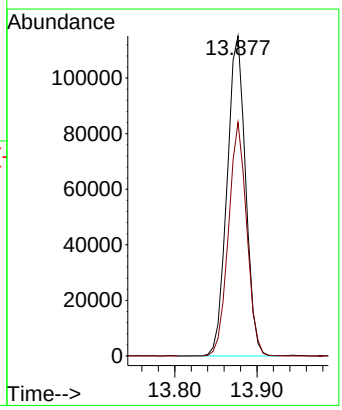
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

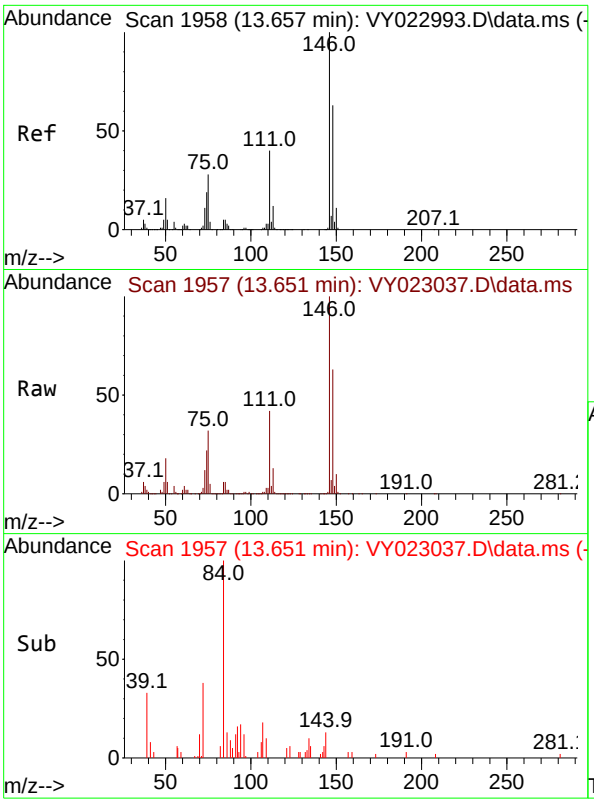


#90
Hexachloroethane
Concen: 44.294 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:117 Resp: 180473

Ion	Ratio	Lower	Upper
117	100		
201	71.9	36.1	108.5

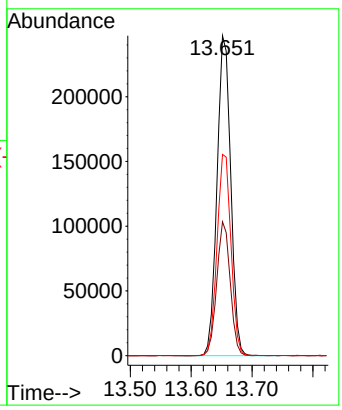




#91
1,2-Dichlorobenzene
Concen: 46.055 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:146 Resp: 38592

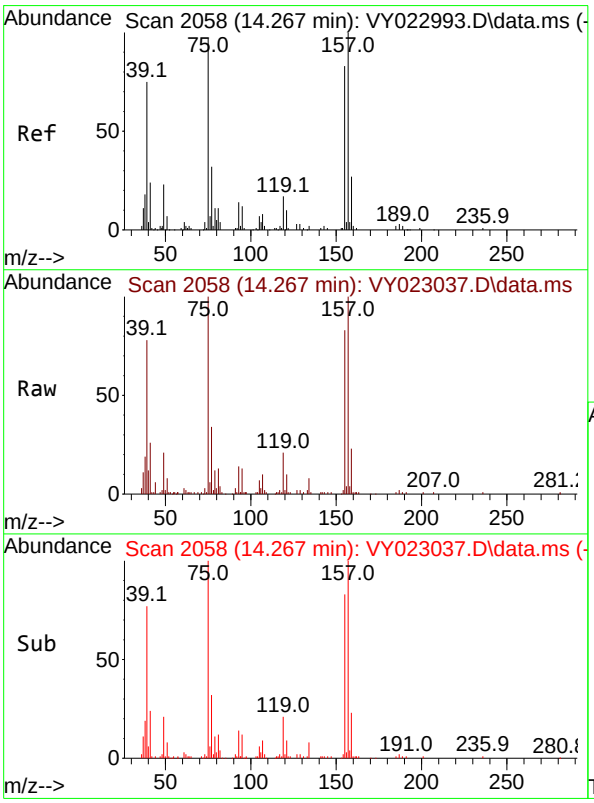
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	61.0
148	64.0	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

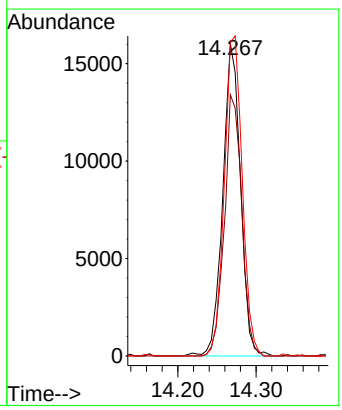
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

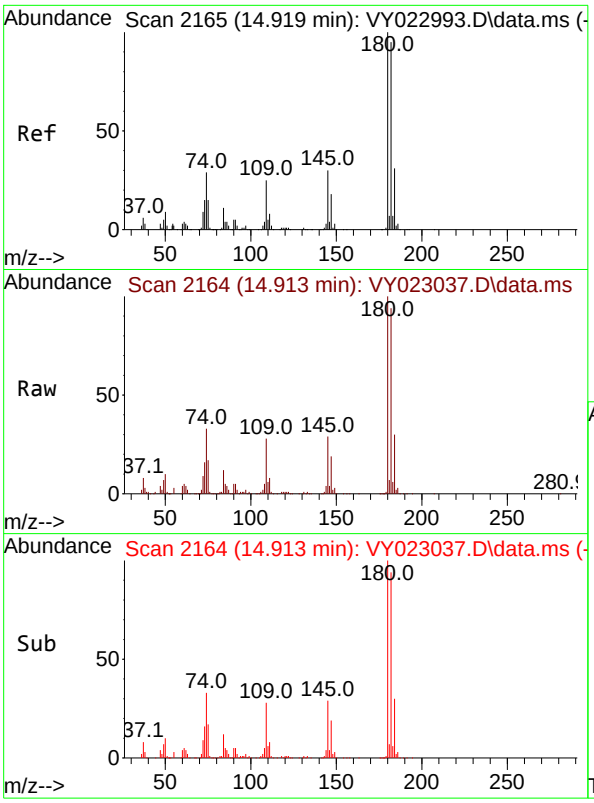


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.619 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 25174

Ion	Ratio	Lower	Upper
75	100		
155	82.4	42.8	128.3
157	103.7	54.3	162.9

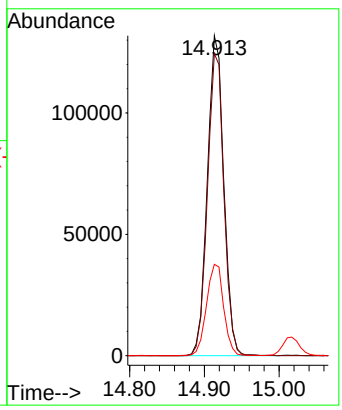




#93
1,2,4-Trichlorobenzene
Concen: 45.546 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:180 Resp: 20117

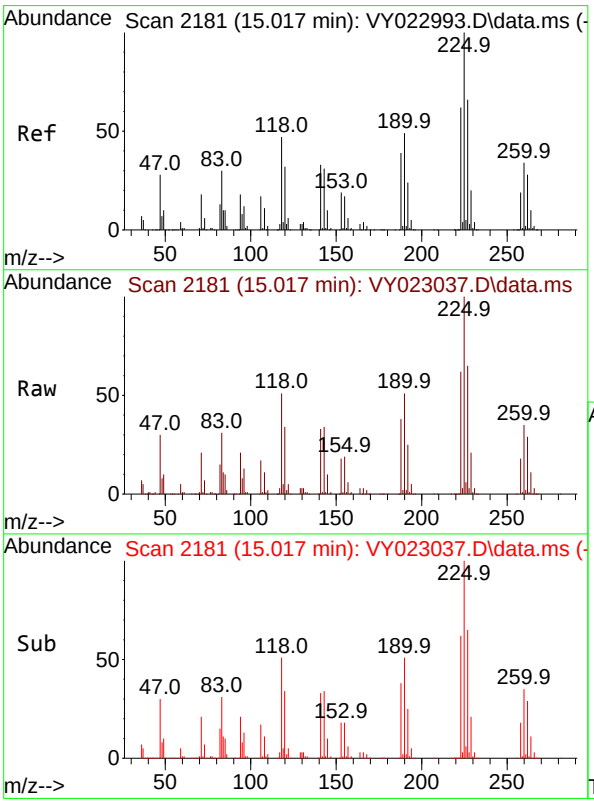
Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.5	142.5
145	29.9	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

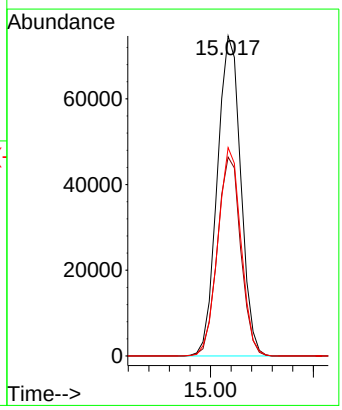
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

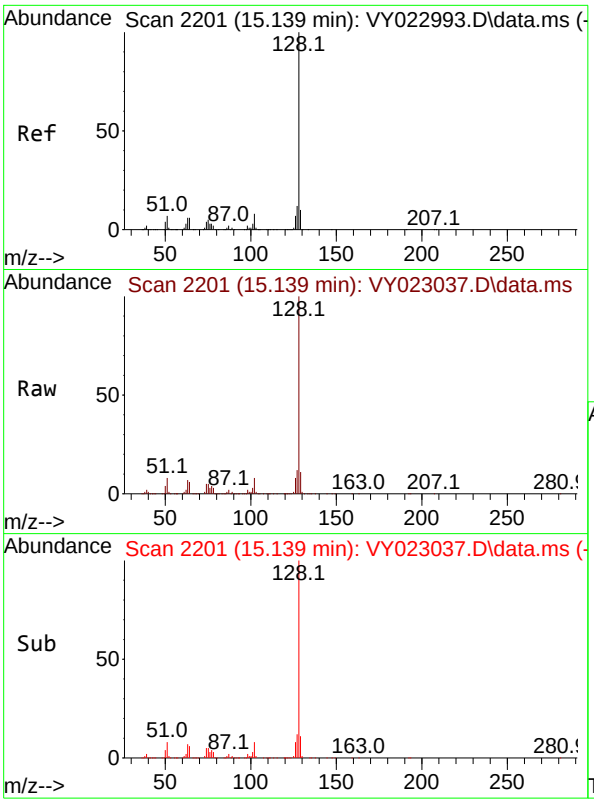


#94
Hexachlorobutadiene
Concen: 42.457 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:225 Resp: 118232

Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.4	94.0
227	64.1	32.1	96.5

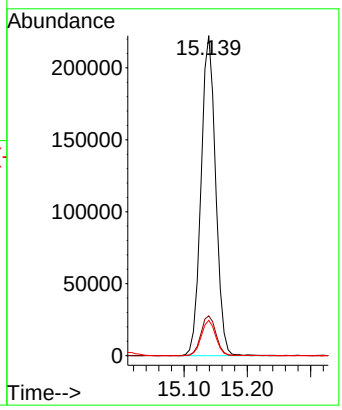




#95
Naphthalene
Concen: 50.411 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:128 Resp: 35713

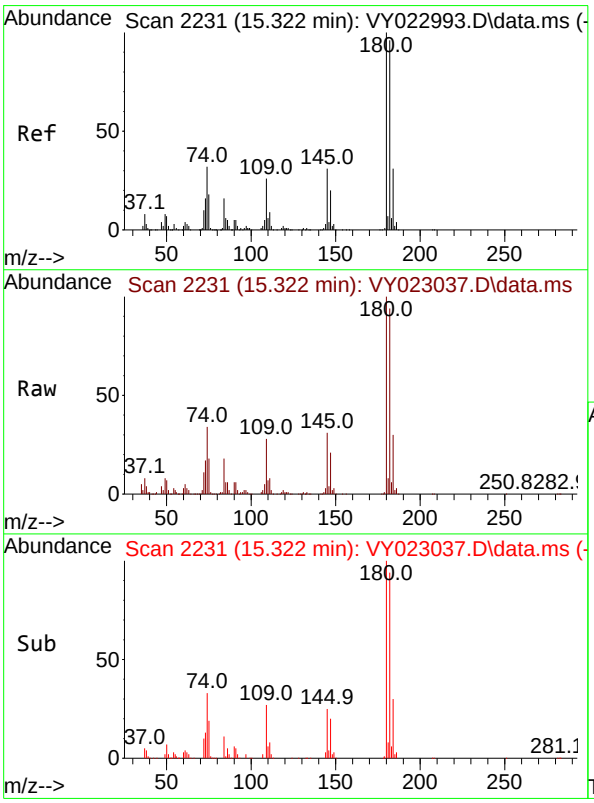
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.0	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

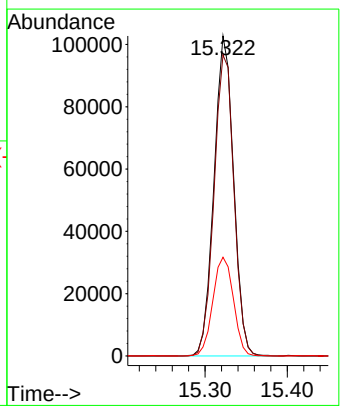
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.643 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:180 Resp: 170114

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	142.0
145	32.4	15.8	47.4



Sample Results: **VY023037.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	73	0.00
2	T	Dichlorodifluoromethane	0.425	0.348	18.1	69	0.00
3	P	Chloromethane	0.722	0.739	-2.4	87	0.00
4	C	Vinyl Chloride	0.915	0.936	-2.3#	83	0.00
5	T	Bromomethane	0.660	0.705	-6.8	92	0.00
6	T	Chloroethane	0.611	0.661	-8.2	86	0.00
7	T	Trichlorofluoromethane	1.062	0.980	7.7	73	0.00
8	T	Diethyl Ether	0.278	0.266	4.3	78	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.558	0.495	11.3	71	0.00
10	T	Methyl Iodide	0.579	0.576	0.5	74	0.00
11	T	Tert butyl alcohol	0.031	0.033	-6.5	81	0.00
12	CM	1,1-Dichloroethene	0.531	0.477	10.2#	73	0.00
13	T	Acrolein	0.014	0.007	50.0#	65	0.00
14	T	Allyl chloride	0.809	0.762	5.8	75	0.00
15	T	Acrylonitrile	0.105	0.115	-9.5	85	0.00
16	T	Acetone	0.092	0.083	9.8	78	0.00
17	T	Carbon Disulfide	1.610	1.461	9.3	74	0.00
18	T	Methyl Acetate	0.311	0.421	-35.4#	95	0.00
19	T	Methyl tert-butyl Ether	1.274	1.332	-4.6	81	0.00
20	T	Methylene Chloride	0.871	0.672	22.8	81	0.00
21	T	trans-1,2-Dichloroethene	0.591	0.562	4.9	77	0.00
22	T	Diisopropyl ether	1.717	1.768	-3.0	81	0.00
23	T	Vinyl Acetate	0.865	0.869	-0.5	78	0.00
24	P	1,1-Dichloroethane	1.079	1.069	0.9	79	0.00
25	T	2-Butanone	0.132	0.137	-3.8	81	0.00
26	T	2,2-Dichloropropane	0.945	0.820	13.2	70	0.00
27	T	cis-1,2-Dichloroethene	0.682	0.670	1.8	77	0.00
28	T	Bromochloromethane	0.418	0.449	-7.4	82	0.00
29	T	Tetrahydrofuran	0.083	0.092	-10.8	82	0.00
30	C	Chloroform	1.088	1.112	-2.2#	82	0.00
31	T	Cyclohexane	1.008	0.873	13.4	72	0.00
32	T	1,1,1-Trichloroethane	0.987	0.947	4.1	76	0.00
33	S	1,2-Dichloroethane-d4	0.506	0.550	-8.7	84	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	77	0.00
35	S	Dibromofluoromethane	0.317	0.310	2.2	79	0.00
36	T	1,1-Dichloropropene	0.500	0.460	8.0	75	0.00
37	T	Ethyl Acetate	0.186	0.182	2.2	80	0.00
38	T	Carbon Tetrachloride	0.543	0.495	8.8	75	0.00
39	T	Methylcyclohexane	0.647	0.571	11.7	72	0.00
40	TM	Benzene	1.504	1.467	2.5	80	0.00
41	T	Methacrylonitrile	0.101	0.109	-7.9	84	0.00
42	TM	1,2-Dichloroethane	0.374	0.391	-4.5	84	0.00
43	T	Isopropyl Acetate	0.369	0.383	-3.8	81	0.00
44	TM	Trichloroethene	0.386	0.350	9.3	74	0.00
45	C	1,2-Dichloropropane	0.351	0.345	1.7#	81	0.00
46	T	Dibromomethane	0.182	0.186	-2.2	83	0.00
47	T	Bromodichloromethane	0.502	0.504	-0.4	82	0.00
48	T	Methyl methacrylate	0.178	0.198	-11.2	85	0.00

Sample Results: **VY023037.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	85	0.00
50	S	Toluene-d8	1.258	1.233	2.0	79	0.00
51	T	4-Methyl-2-Pentanone	0.187	0.206	-10.2	83	0.00
52	CM	Toluene	0.935	0.908	2.9#	79	0.00
53	T	t-1,3-Dichloropropene	0.431	0.430	0.2	80	0.00
54	T	cis-1,3-Dichloropropene	0.519	0.516	0.6	81	0.00
55	T	1,1,2-Trichloroethane	0.239	0.244	-2.1	83	0.00
56	T	Ethyl methacrylate	0.298	0.317	-6.4	81	0.00
57	T	1,3-Dichloropropane	0.412	0.430	-4.4	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.162	-11.0	79	0.00
59	T	2-Hexanone	0.123	0.135	-9.8	82	0.00
60	T	Dibromochloromethane	0.312	0.322	-3.2	82	0.00
61	T	1,2-Dibromoethane	0.217	0.225	-3.7	83	0.00
62	S	4-Bromofluorobenzene	0.396	0.394	0.5	82	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
64	T	Tetrachloroethene	0.511	0.431	15.7	68	0.00
65	PM	Chlorobenzene	1.180	1.106	6.3	80	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.384	4.5	82	0.00
67	C	Ethyl Benzene	2.091	1.973	5.6#	79	0.00
68	T	m/p-Xylenes	0.802	0.758	5.5	79	0.00
69	T	o-Xylene	0.744	0.714	4.0	80	0.00
70	T	Styrene	1.219	1.216	0.2	82	0.00
71	P	Bromoform	0.204	0.201	1.5	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73	T	Isopropylbenzene	4.239	3.693	12.9	78	0.00
74	T	N-amyl acetate	0.799	0.741	7.3	80	0.00
75	P	1,1,2,2-Tetrachloroethane	0.613	0.605	1.3	93	0.00
76	T	1,2,3-Trichloropropane	0.623	0.482	22.6	70	0.00
77	T	Bromobenzene	0.919	0.829	9.8	82	0.00
78	T	n-propylbenzene	5.048	4.517	10.5	80	0.00
79	T	2-Chlorotoluene	2.839	2.513	11.5	81	0.00
80	T	1,3,5-Trimethylbenzene	3.343	3.018	9.7	81	0.00
81	T	trans-1,4-Dichloro-2-butene	0.209	0.184	12.0	79	0.00
82	T	4-Chlorotoluene	2.864	2.625	8.3	83	0.00
83	T	tert-Butylbenzene	3.020	2.670	11.6	78	0.00
84	T	1,2,4-Trimethylbenzene	3.291	3.028	8.0	82	0.00
85	T	sec-Butylbenzene	4.526	4.019	11.2	80	0.00
86	T	p-Isopropyltoluene	3.676	3.297	10.3	80	0.00
87	T	1,3-Dichlorobenzene	1.855	1.655	10.8	81	0.00
88	T	1,4-Dichlorobenzene	1.795	1.609	10.4	82	0.00
89	T	n-Butylbenzene	3.392	3.081	9.2	81	0.00
90	T	Hexachloroethane	0.761	0.674	11.4	81	0.00
91	T	1,2-Dichlorobenzene	1.565	1.442	7.9	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.091	0.094	-3.3	90	0.00
93	T	1,2,4-Trichlorobenzene	0.825	0.751	9.0	81	0.00
94	T	Hexachlorobutadiene	0.520	0.442	15.0	80	0.00
95	T	Naphthalene	1.323	1.334	-0.8	83	0.00

Sample Results: **VY023037.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	0.681	0.635	6.8	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VY023037.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	73	0.00
2	T	Dichlorodifluoromethane	50.000	40.979	18.0	69	0.00
3	P	Chloromethane	50.000	51.179	-2.4	87	0.00
4	C	Vinyl Chloride	50.000	51.189	-2.4#	83	0.00
5	T	Bromomethane	50.000	53.371	-6.7	92	0.00
6	T	Chloroethane	50.000	54.083	-8.2	86	0.00
7	T	Trichlorofluoromethane	50.000	46.144	7.7	73	0.00
8	T	Diethyl Ether	50.000	47.921	4.2	78	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.347	11.3	71	0.00
10	T	Methyl Iodide	50.000	49.718	0.6	74	0.00
11	T	Tert butyl alcohol	250.000	266.251	-6.5	81	0.00
12	CM	1,1-Dichloroethene	50.000	44.904	10.2#	73	0.00
13	T	Acrolein	250.000	113.632	54.5#	65	0.00
14	T	Allyl chloride	50.000	47.094	5.8	75	0.00
15	T	Acrylonitrile	250.000	272.310	-8.9	85	0.00
16	T	Acetone	250.000	227.117	9.2	78	0.00
17	T	Carbon Disulfide	50.000	45.378	9.2	74	0.00
18	T	Methyl Acetate	50.000	67.737	-35.5#	95	0.00
19	T	Methyl tert-butyl Ether	50.000	52.263	-4.5	81	0.00
20	T	Methylene Chloride	50.000	52.461	-4.9	81	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.486	5.0	77	0.00
22	T	Diisopropyl ether	50.000	51.489	-3.0	81	0.00
23	T	Vinyl Acetate	250.000	251.092	-0.4	78	0.00
24	P	1,1-Dichloroethane	50.000	49.557	0.9	79	0.00
25	T	2-Butanone	250.000	259.880	-4.0	81	0.00
26	T	2,2-Dichloropropane	50.000	43.384	13.2	70	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.131	1.7	77	0.00
28	T	Bromochloromethane	50.000	53.625	-7.2	82	0.00
29	T	Tetrahydrofuran	250.000	275.629	-10.3	82	0.00
30	C	Chloroform	50.000	51.090	-2.2#	82	0.00
31	T	Cyclohexane	50.000	43.302	13.4	72	0.00
32	T	1,1,1-Trichloroethane	50.000	47.946	4.1	76	0.00
33	S	1,2-Dichloroethane-d4	50.000	54.308	-8.6	84	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	77	0.00
35	S	Dibromofluoromethane	50.000	48.883	2.2	79	0.00
36	T	1,1-Dichloropropene	50.000	46.015	8.0	75	0.00
37	T	Ethyl Acetate	50.000	49.061	1.9	80	0.00
38	T	Carbon Tetrachloride	50.000	45.558	8.9	75	0.00
39	T	Methylcyclohexane	50.000	44.125	11.8	72	0.00
40	TM	Benzene	50.000	48.766	2.5	80	0.00
41	T	Methacrylonitrile	50.000	53.684	-7.4	84	0.00
42	TM	1,2-Dichloroethane	50.000	52.184	-4.4	84	0.00
43	T	Isopropyl Acetate	50.000	51.904	-3.8	81	0.00
44	TM	Trichloroethene	50.000	45.298	9.4	74	0.00
45	C	1,2-Dichloropropane	50.000	49.079	1.8#	81	0.00
46	T	Dibromomethane	50.000	51.242	-2.5	83	0.00
47	T	Bromodichloromethane	50.000	50.179	-0.4	82	0.00
48	T	Methyl methacrylate	50.000	55.511	-11.0	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 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	1093.044	-9.3	85	0.00
50	S	Toluene-d8	50.000	49.009	2.0	79	0.00
51	T	4-Methyl-2-Pentanone	250.000	274.629	-9.9	83	0.00
52	CM	Toluene	50.000	48.565	2.9#	79	0.00
53	T	t-1,3-Dichloropropene	50.000	49.912	0.2	80	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.731	0.5	81	0.00
55	T	1,1,2-Trichloroethane	50.000	51.144	-2.3	83	0.00
56	T	Ethyl methacrylate	50.000	53.131	-6.3	81	0.00
57	T	1,3-Dichloropropane	50.000	52.107	-4.2	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	276.893	-10.8	79	0.00
59	T	2-Hexanone	250.000	275.436	-10.2	82	0.00
60	T	Dibromochloromethane	50.000	51.572	-3.1	82	0.00
61	T	1,2-Dibromoethane	50.000	51.963	-3.9	83	0.00
62	S	4-Bromofluorobenzene	50.000	49.795	0.4	82	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	80	0.00
64	T	Tetrachloroethene	50.000	42.158	15.7	68	0.00
65	PM	Chlorobenzene	50.000	46.874	6.3	80	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.714	4.6	82	0.00
67	C	Ethyl Benzene	50.000	47.175	5.7#	79	0.00
68	T	m/p-Xylenes	100.000	94.459	5.5	79	0.00
69	T	o-Xylene	50.000	47.923	4.2	80	0.00
70	T	Styrene	50.000	49.878	0.2	82	0.00
71	P	Bromoform	50.000	49.216	1.6	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73	T	Isopropylbenzene	50.000	43.555	12.9	78	0.00
74	T	N-amyl acetate	50.000	46.366	7.3	80	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.344	1.3	93	0.00
76	T	1,2,3-Trichloropropane	50.000	38.703	22.6	70	0.00
77	T	Bromobenzene	50.000	45.064	9.9	82	0.00
78	T	n-propylbenzene	50.000	44.738	10.5	80	0.00
79	T	2-Chlorotoluene	50.000	44.254	11.5	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	45.137	9.7	81	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.976	12.0	79	0.00
82	T	4-Chlorotoluene	50.000	45.832	8.3	83	0.00
83	T	tert-Butylbenzene	50.000	44.206	11.6	78	0.00
84	T	1,2,4-Trimethylbenzene	50.000	45.996	8.0	82	0.00
85	T	sec-Butylbenzene	50.000	44.401	11.2	80	0.00
86	T	p-Isopropyltoluene	50.000	44.848	10.3	80	0.00
87	T	1,3-Dichlorobenzene	50.000	44.606	10.8	81	0.00
88	T	1,4-Dichlorobenzene	50.000	44.810	10.4	82	0.00
89	T	n-Butylbenzene	50.000	45.418	9.2	81	0.00
90	T	Hexachloroethane	50.000	44.294	11.4	81	0.00
91	T	1,2-Dichlorobenzene	50.000	46.055	7.9	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.619	-3.2	90	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.546	8.9	81	0.00
94	T	Hexachlorobutadiene	50.000	42.457	15.1	80	0.00
95	T	Naphthalene	50.000	50.411	-0.8	83	0.00

Sample Results: **VY023037.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.643	6.7	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

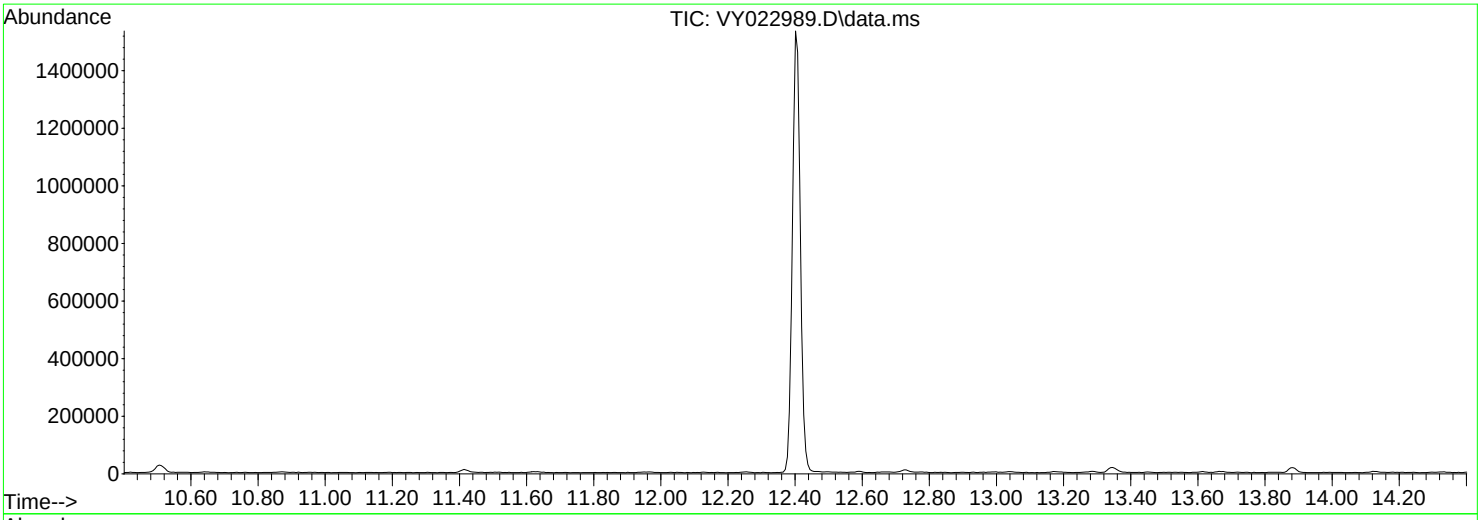
Sample Results: **VY022989.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022989.D
Acq On : 18 Jul 2025 09:38
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Title : SW846 8260
Last Update : Sat Jul 19 01:50:49 2025



AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1742

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	54925	PASS
75	95	30	60	54.8	144493	PASS
95	95	100	100	100.0	263616	PASS
96	95	5	9	7.0	18352	PASS
173	174	0.00	2	1.0	2222	PASS
174	95	50	100	82.7	217899	PASS
175	174	5	9	7.3	15902	PASS
176	174	95	101	96.3	209877	PASS
177	176	5	9	6.8	14187	PASS

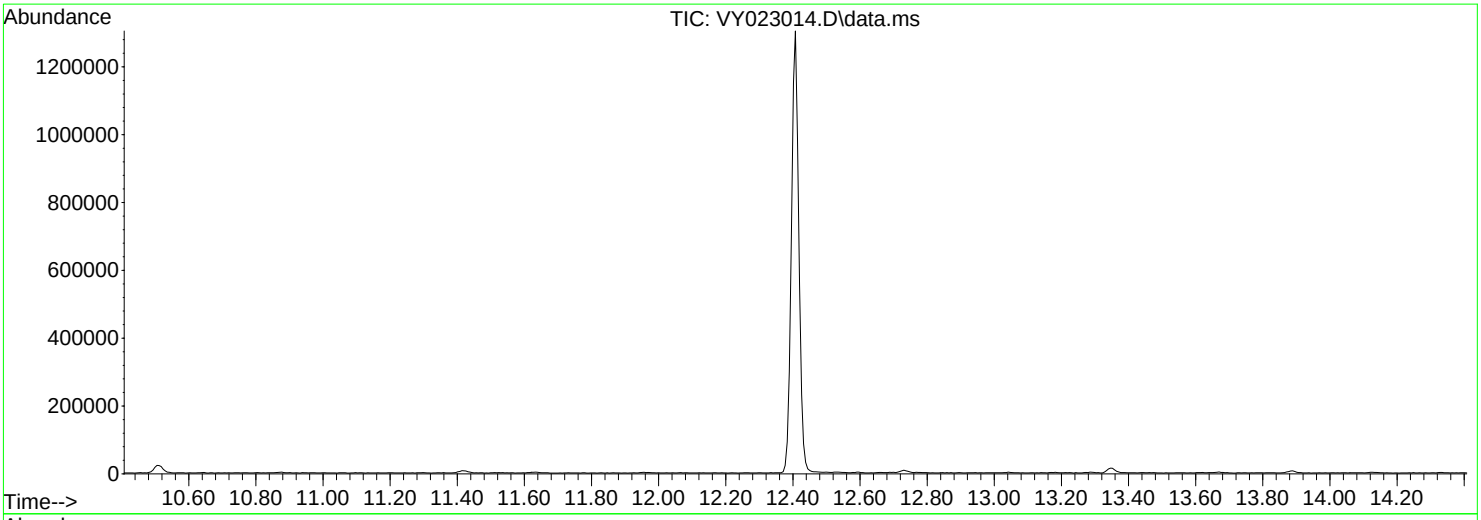
Sample Results: **VY023014.D**

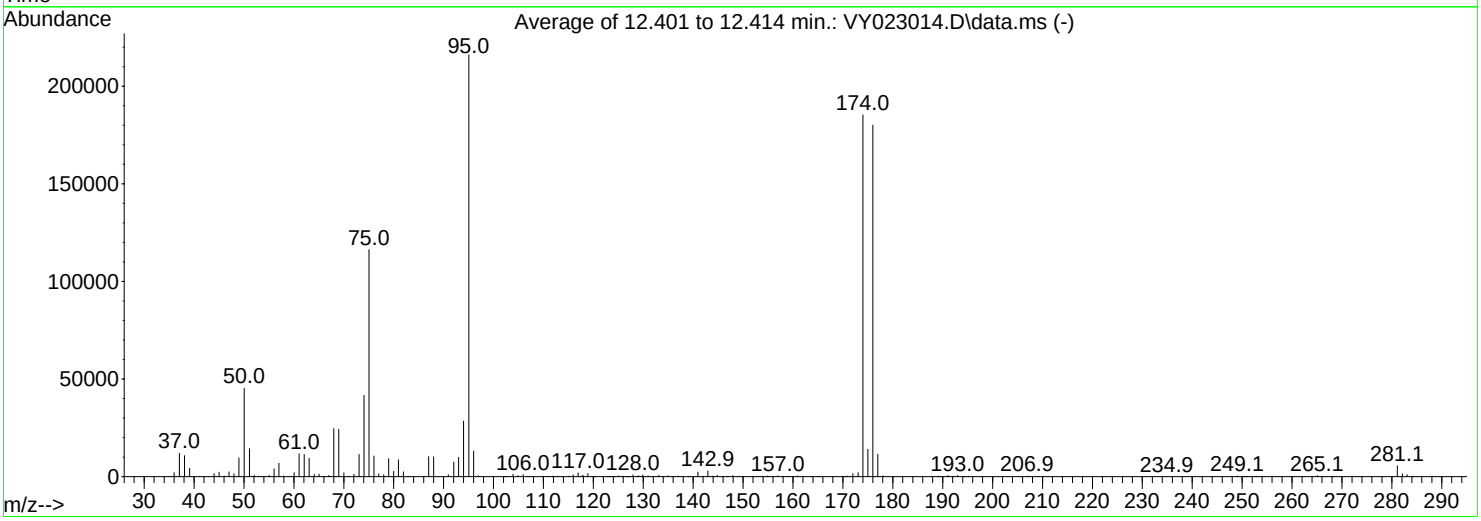
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023014.D
Acq On : 21 Jul 2025 08:24
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Title : SW846 8260
Last Update : Sat Jul 19 01:50:49 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	21.0	45317	PASS
75	95	30	60	53.8	116323	PASS
95	95	100	100	100.0	216107	PASS
96	95	5	9	6.1	13088	PASS
173	174	0.00	2	1.1	2059	PASS
174	95	50	100	85.8	185323	PASS
175	174	5	9	7.5	13991	PASS
176	174	95	101	97.2	180139	PASS
177	176	5	9	6.4	11510	PASS

Raw Data: **VY022998.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBL01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022998.D	1	07/18/25 15:10	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0040	U	0.0011	0.0040	0.0050	mg/Kg
74-87-3	Chloromethane	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.0025	U	0.00079	0.0025	0.0050	mg/Kg
74-83-9	Bromomethane	0.0040	U	0.0011	0.0040	0.0050	mg/Kg
75-00-3	Chloroethane	0.0025	U	0.0013	0.0025	0.0050	mg/Kg
109-99-9	Tetrahydrofuran	0.013	U	0.0047	0.013	0.025	mg/Kg
75-69-4	Trichlorofluoromethane	0.0040	U	0.0012	0.0040	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.0025	U	0.0010	0.0025	0.0050	mg/Kg
107-13-1	Acrylonitrile	0.013	U	0.0050	0.013	0.025	mg/Kg
67-64-1	Acetone	0.020	U	0.0047	0.020	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.0040	U	0.0011	0.0040	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0025	U	0.00073	0.0025	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.0080	U	0.0035	0.0080	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0025	U	0.00086	0.0025	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.0025	U	0.00080	0.0025	0.0050	mg/Kg
78-93-3	2-Butanone	0.020	U	0.0065	0.020	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.0025	U	0.00097	0.0025	0.0050	mg/Kg
594-20-7	2,2-Dichloropropane	0.0040	U	0.0013	0.0040	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0025	U	0.00075	0.0025	0.0050	mg/Kg
67-66-3	Chloroform	0.0040	U	0.00084	0.0040	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0025	U	0.00093	0.0025	0.0050	mg/Kg
563-58-6	1,1-Dichloropropene	0.0025	U	0.00087	0.0025	0.0050	mg/Kg
71-43-2	Benzene	0.0025	U	0.00079	0.0025	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.0025	U	0.00079	0.0025	0.0050	mg/Kg
79-01-6	Trichloroethene	0.0025	U	0.00081	0.0025	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.0025	U	0.00091	0.0025	0.0050	mg/Kg
74-95-3	Dibromomethane	0.0025	U	0.00089	0.0025	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.0025	U	0.00078	0.0025	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.013	U	0.0036	0.013	0.025	mg/Kg

Raw Data: **VY022998.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBL01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022998.D	1	07/18/25 15:10	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0025	U	0.00078	0.0025	0.0050	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0025	U	0.00065	0.0025	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0025	U	0.00062	0.0025	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0025	U	0.00092	0.0025	0.0050	mg/Kg
142-28-9	1,3-Dichloropropane	0.0025	U	0.00068	0.0025	0.0050	mg/Kg
591-78-6	2-Hexanone	0.013	U	0.0037	0.013	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.0025	U	0.00087	0.0025	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.0025	U	0.00088	0.0025	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.0025	U	0.00091	0.0025	0.0050	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0025	U	0.00077	0.0025	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.0025	U	0.00067	0.0025	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.0050	U	0.0012	0.0050	0.010	mg/Kg
1330-20-7	Total Xylenes	0.0075	U	0.0020	0.0075	0.015	mg/Kg
95-47-6	o-Xylene	0.0025	U	0.00082	0.0025	0.0050	mg/Kg
100-42-5	Styrene	0.0025	U	0.00071	0.0025	0.0050	mg/Kg
75-25-2	Bromoform	0.0025	U	0.00086	0.0025	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.0025	U	0.00078	0.0025	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0025	U	0.0012	0.0025	0.0050	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0040	U	0.0012	0.0040	0.0050	mg/Kg
108-86-1	Bromobenzene	0.0025	U	0.0012	0.0025	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.0025	U	0.00073	0.0025	0.0050	mg/Kg
95-49-8	2-Chlorotoluene	0.0025	U	0.00068	0.0025	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0025	U	0.00082	0.0025	0.0050	mg/Kg
106-43-4	4-Chlorotoluene	0.0025	U	0.0012	0.0025	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.0025	U	0.00067	0.0025	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0025	U	0.00064	0.0025	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.0025	U	0.00066	0.0025	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.0025	U	0.00062	0.0025	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0025	U	0.0017	0.0025	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0025	U	0.0016	0.0025	0.0050	mg/Kg

Raw Data: **VY022998.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBL01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022998.D	1	07/18/25 15:10	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0025	U	0.0015	0.0025	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0025	U	0.0015	0.0025	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0040	U	0.0018	0.0040	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0040	U	0.0030	0.0040	0.0050	mg/Kg
87-68-3	Hexachlorobutadiene	0.0025	U	0.0019	0.0025	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0040	U	0.0032	0.0040	0.0050	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.8		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		78 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	46.1		85 - 116		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		79 - 119		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	357000	7.707				
540-36-3	1,4-Difluorobenzene	627000	8.61				
3114-55-4	Chlorobenzene-d5	574000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	243000	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\VY071825\
Data File : VY022998.D
Acq On : 18 Jul 2025 15:10
Operator : SY/MD
Sample : VY0718SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBL01

Quant Time: Jul 19 02:10:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	356999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	626641	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	573852	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	242761	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	205368	56.825	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.660%			
35) Dibromofluoromethane	7.634	113	192849	48.515	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.040%			
50) Toluene-d8	10.103	98	726905	46.114	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.220%			
62) 4-Bromofluorobenzene	12.402	95	251781	50.741	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.480%			

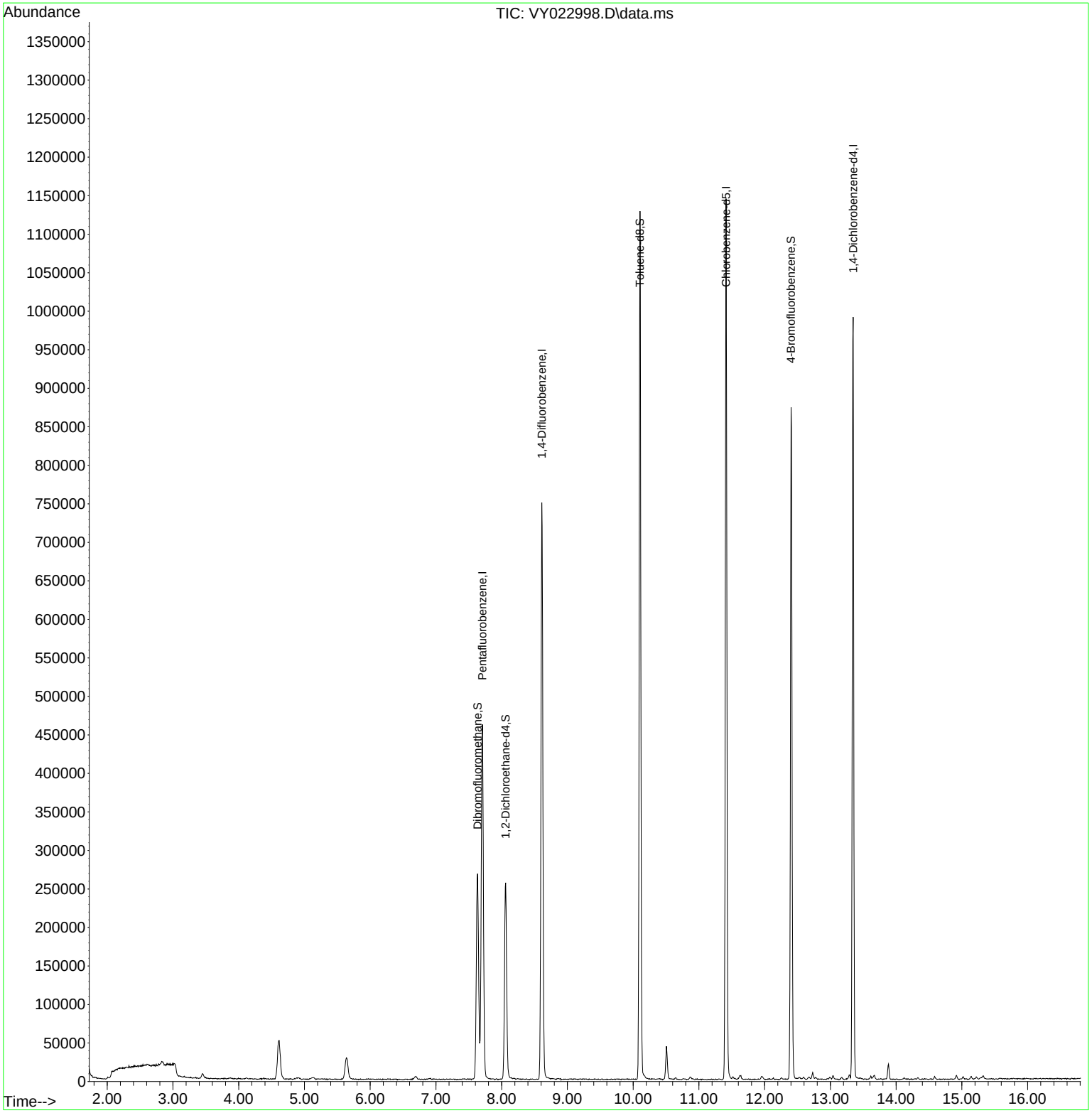
Target Compounds Qvalue

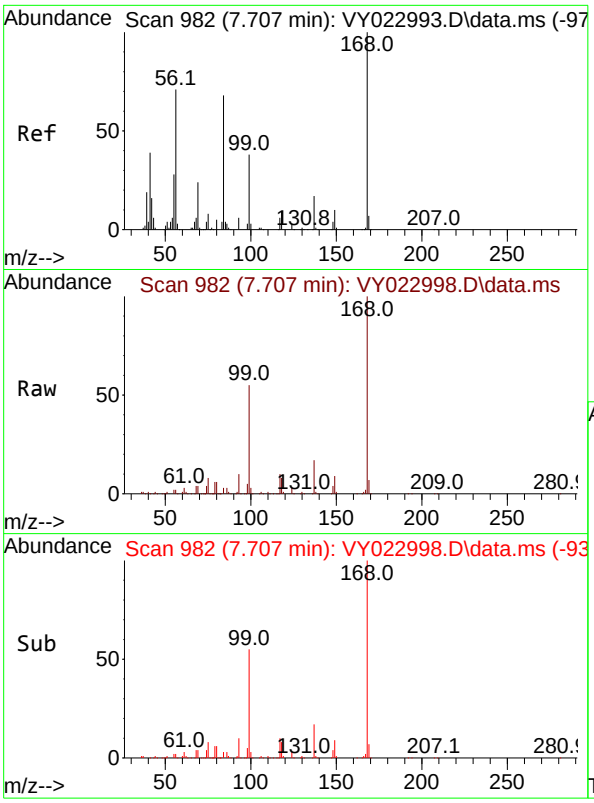
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022998.D
Acq On : 18 Jul 2025 15:10
Operator : SY/MD
Sample : VY0718SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBL01

Quant Time: Jul 19 02:10:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



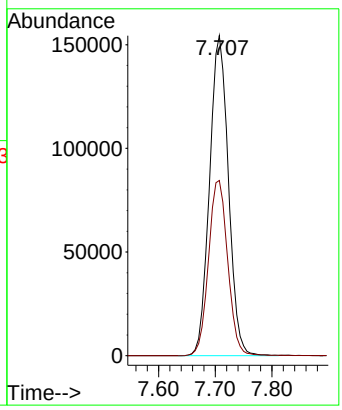


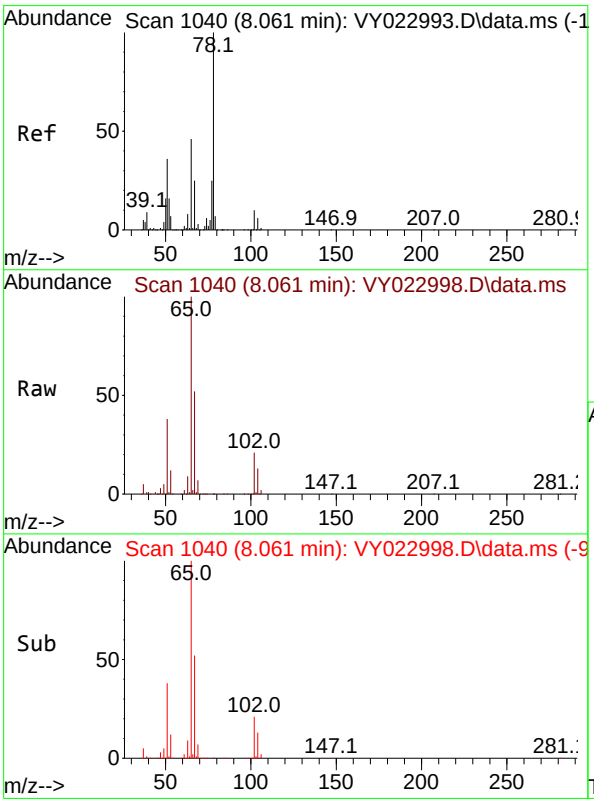
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBL01

Tgt Ion:168 Resp: 356999

Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.4	66.6

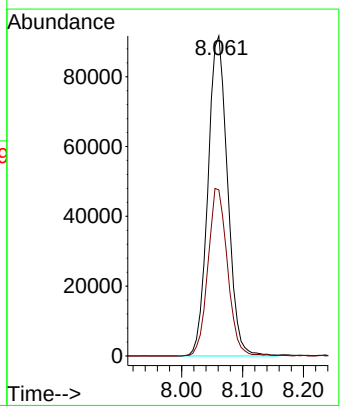


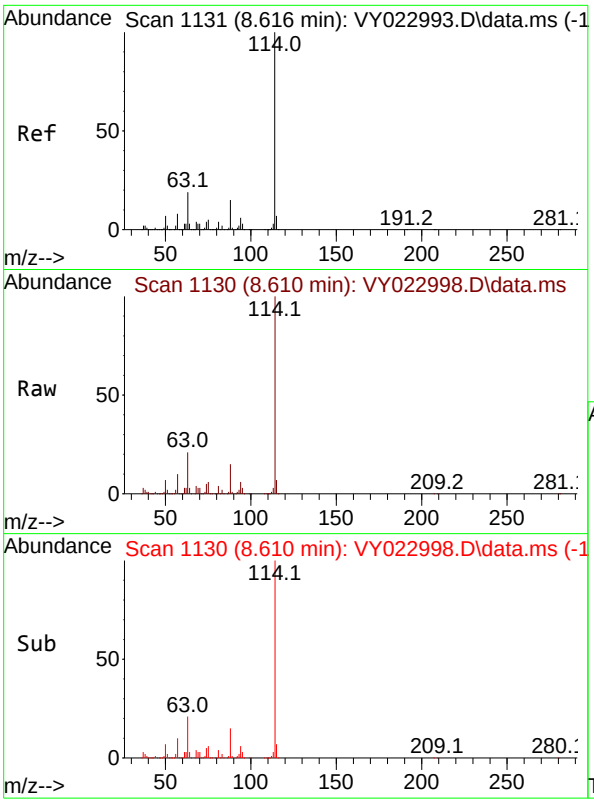


#33
1,2-Dichloroethane-d4
Concen: 56.825 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Tgt Ion: 65 Resp: 205368

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	107.4



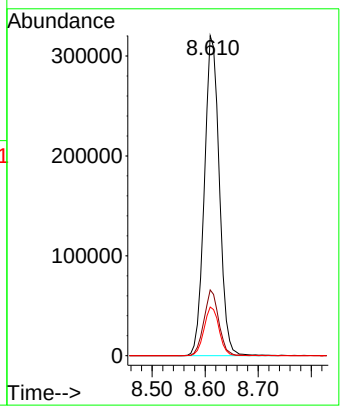


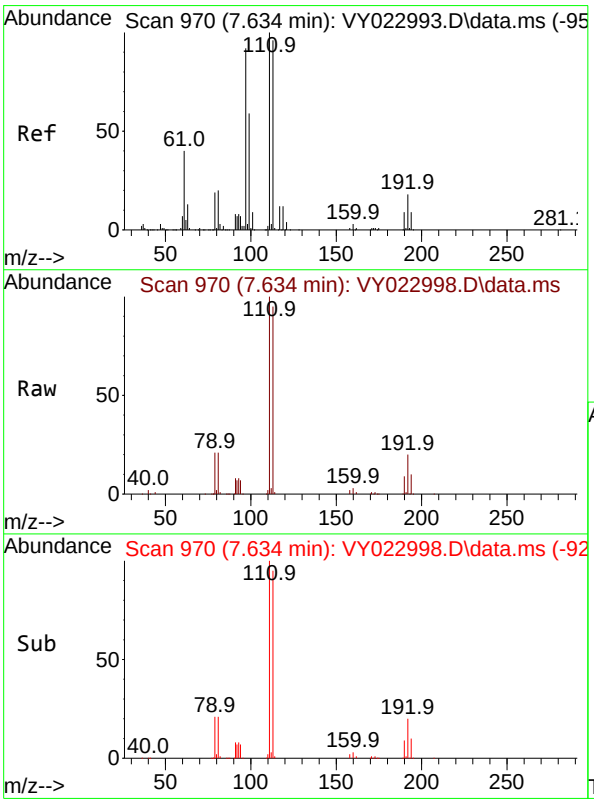
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBL01

Tgt Ion:114 Resp: 626641

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	38.8
88	15.2	0.0	30.2

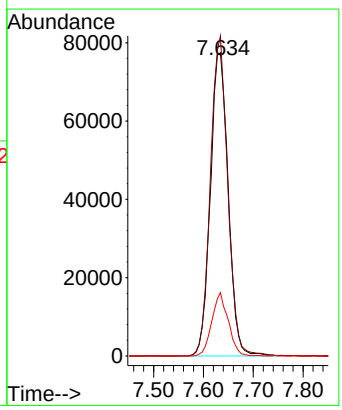


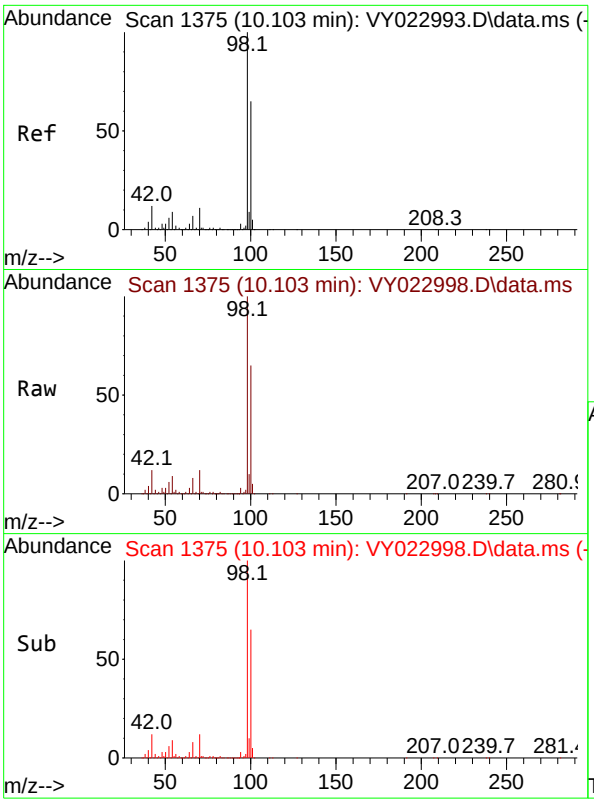


#35
Dibromofluoromethane
Concen: 48.515 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Tgt Ion:113 Resp: 192849

Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.2	124.8
192	19.2	15.3	22.9



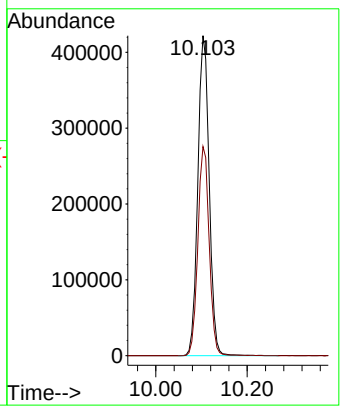


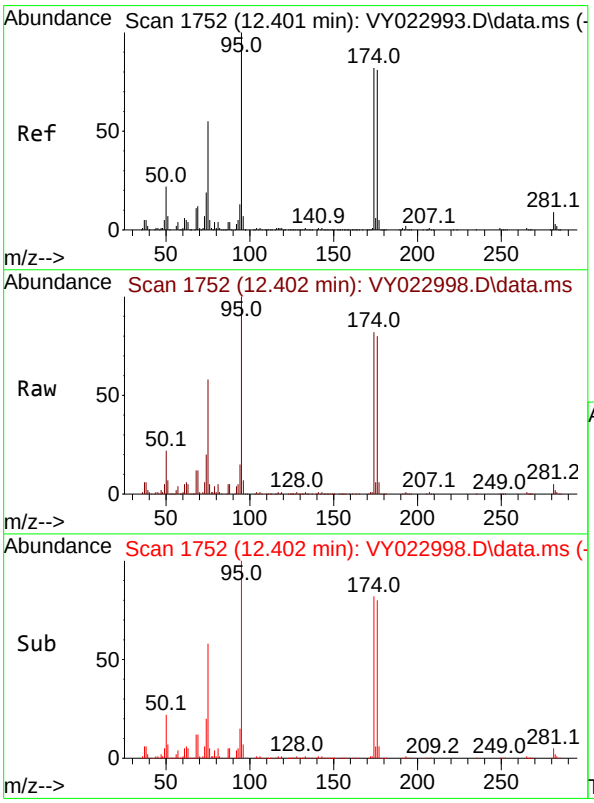
#50
Toluene-d8
Concen: 46.114 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBL01

Tgt Ion: 98 Resp: 726905

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.2

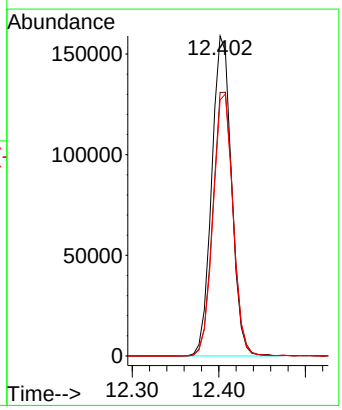


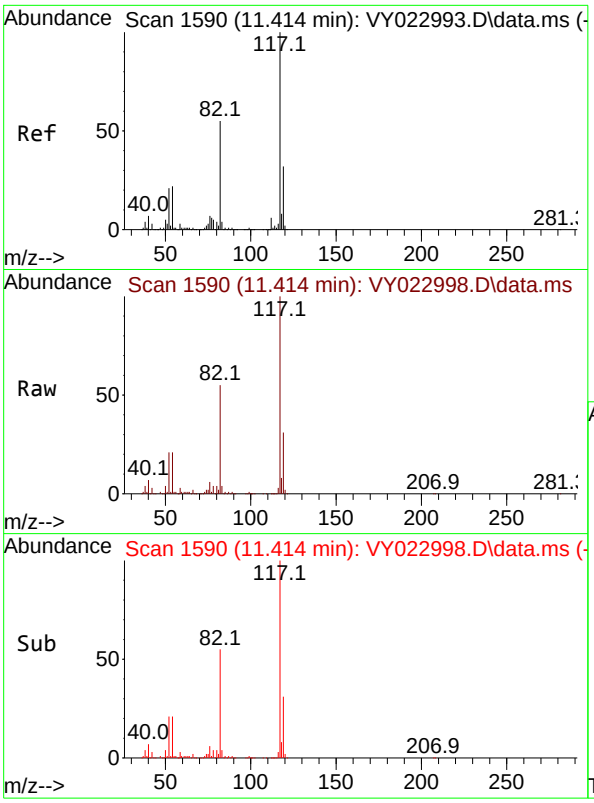


#62
4-Bromofluorobenzene
Concen: 50.741 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Tgt Ion: 95 Resp: 251781

Ion	Ratio	Lower	Upper
95	100		
174	84.6	0.0	170.8
176	82.2	0.0	163.6



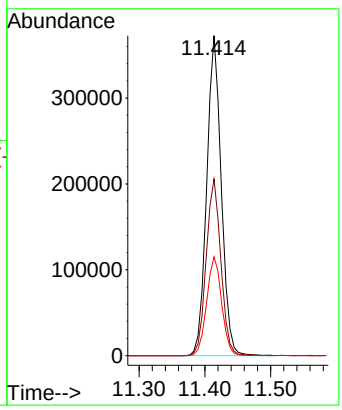


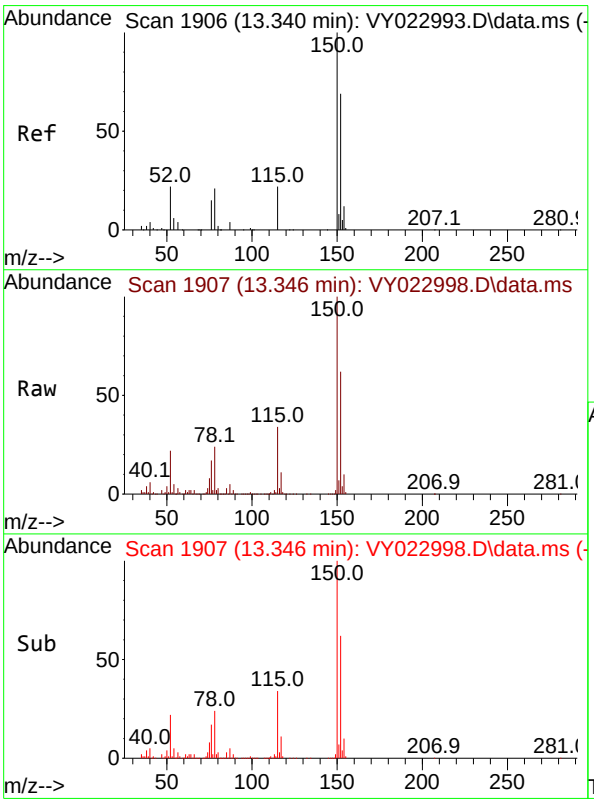
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBL01

Tgt Ion:117 Resp: 573852

Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.3	66.5
119	30.9	25.8	38.8

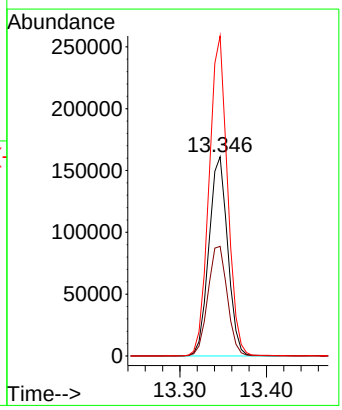




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY022998.D
Acq: 18 Jul 2025 15:10

Tgt Ion:152 Resp: 242761

Ion	Ratio	Lower	Upper
152	100		
115	56.9	29.4	88.2
150	157.8	0.0	350.0



Raw Data: **VY023016.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0721SBL01	SDG No.:	Q2639
Lab Sample ID:	VY0721SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023016.D	1	07/21/25 10:39	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.0040	U	0.0011	0.0040	0.0050	mg/Kg
74-87-3	Chloromethane	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.0025	U	0.00079	0.0025	0.0050	mg/Kg
74-83-9	Bromomethane	0.0040	U	0.0011	0.0040	0.0050	mg/Kg
75-00-3	Chloroethane	0.0025	U	0.0013	0.0025	0.0050	mg/Kg
109-99-9	Tetrahydrofuran	0.013	U	0.0047	0.013	0.025	mg/Kg
75-69-4	Trichlorofluoromethane	0.0040	U	0.0012	0.0040	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.0025	U	0.0010	0.0025	0.0050	mg/Kg
107-13-1	Acrylonitrile	0.013	U	0.0050	0.013	0.025	mg/Kg
67-64-1	Acetone	0.020	U	0.0047	0.020	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.0040	U	0.0011	0.0040	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.0025	U	0.00073	0.0025	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.0080	U	0.0035	0.0080	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.0025	U	0.00086	0.0025	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.0025	U	0.00080	0.0025	0.0050	mg/Kg
78-93-3	2-Butanone	0.020	U	0.0065	0.020	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.0025	U	0.00097	0.0025	0.0050	mg/Kg
594-20-7	2,2-Dichloropropane	0.0040	U	0.0013	0.0040	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.0025	U	0.00075	0.0025	0.0050	mg/Kg
67-66-3	Chloroform	0.0040	U	0.00084	0.0040	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.0025	U	0.00093	0.0025	0.0050	mg/Kg
563-58-6	1,1-Dichloropropene	0.0025	U	0.00087	0.0025	0.0050	mg/Kg
71-43-2	Benzene	0.0025	U	0.00079	0.0025	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.0025	U	0.00079	0.0025	0.0050	mg/Kg
79-01-6	Trichloroethene	0.0025	U	0.00081	0.0025	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.0025	U	0.00091	0.0025	0.0050	mg/Kg
74-95-3	Dibromomethane	0.0025	U	0.00089	0.0025	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.0025	U	0.00078	0.0025	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.013	U	0.0036	0.013	0.025	mg/Kg

Raw Data: **VY023016.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0721SBL01	SDG No.:	Q2639
Lab Sample ID:	VY0721SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023016.D	1	07/21/25 10:39	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.0025	U	0.00078	0.0025	0.0050	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.0025	U	0.00065	0.0025	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.0025	U	0.00062	0.0025	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.0025	U	0.00092	0.0025	0.0050	mg/Kg
142-28-9	1,3-Dichloropropane	0.0025	U	0.00068	0.0025	0.0050	mg/Kg
591-78-6	2-Hexanone	0.013	U	0.0037	0.013	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.0025	U	0.00087	0.0025	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.0025	U	0.00088	0.0025	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.0025	U	0.00091	0.0025	0.0050	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.0025	U	0.00077	0.0025	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.0025	U	0.00067	0.0025	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.0050	U	0.0012	0.0050	0.010	mg/Kg
1330-20-7	Total Xylenes	0.0075	U	0.0020	0.0075	0.015	mg/Kg
95-47-6	o-Xylene	0.0025	U	0.00082	0.0025	0.0050	mg/Kg
100-42-5	Styrene	0.0025	U	0.00071	0.0025	0.0050	mg/Kg
75-25-2	Bromoform	0.0025	U	0.00086	0.0025	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.0025	U	0.00078	0.0025	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.0025	U	0.0012	0.0025	0.0050	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.0040	U	0.0012	0.0040	0.0050	mg/Kg
108-86-1	Bromobenzene	0.0025	U	0.0012	0.0025	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.0025	U	0.00073	0.0025	0.0050	mg/Kg
95-49-8	2-Chlorotoluene	0.0025	U	0.00068	0.0025	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0025	U	0.00082	0.0025	0.0050	mg/Kg
106-43-4	4-Chlorotoluene	0.0025	U	0.0012	0.0025	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.0025	U	0.00067	0.0025	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0025	U	0.00064	0.0025	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.0025	U	0.00066	0.0025	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.0025	U	0.00062	0.0025	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.0025	U	0.0017	0.0025	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.0025	U	0.0016	0.0025	0.0050	mg/Kg

Raw Data: **VY023016.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0721SBL01	SDG No.:	Q2639
Lab Sample ID:	VY0721SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023016.D	1	07/21/25 10:39	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.0025	U	0.0015	0.0025	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.0025	U	0.0015	0.0025	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.0040	U	0.0018	0.0040	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.0040	U	0.0030	0.0040	0.0050	mg/Kg
87-68-3	Hexachlorobutadiene	0.0025	U	0.0019	0.0025	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.0040	U	0.0032	0.0040	0.0050	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.0025	U	0.0011	0.0025	0.0050	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.0		71 - 136		108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		78 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	48.0		85 - 116		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		79 - 119		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	333000	7.707				
540-36-3	1,4-Difluorobenzene	626000	8.615				
3114-55-4	Chlorobenzene-d5	616000	11.413				
3855-82-1	1,4-Dichlorobenzene-d4	271000	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\VY072125\
Data File : VY023016.D
Acq On : 21 Jul 2025 10:39
Operator : SY/MD
Sample : VY0721SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

Quant Time: Jul 22 04:47:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	332701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	625866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	615563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	271493	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	182021	54.044	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.080%			
35) Dibromofluoromethane	7.634	113	196791	49.568	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.140%			
50) Toluene-d8	10.109	98	756332	48.040	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.080%			
62) 4-Bromofluorobenzene	12.407	95	271169	54.716	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.440%			

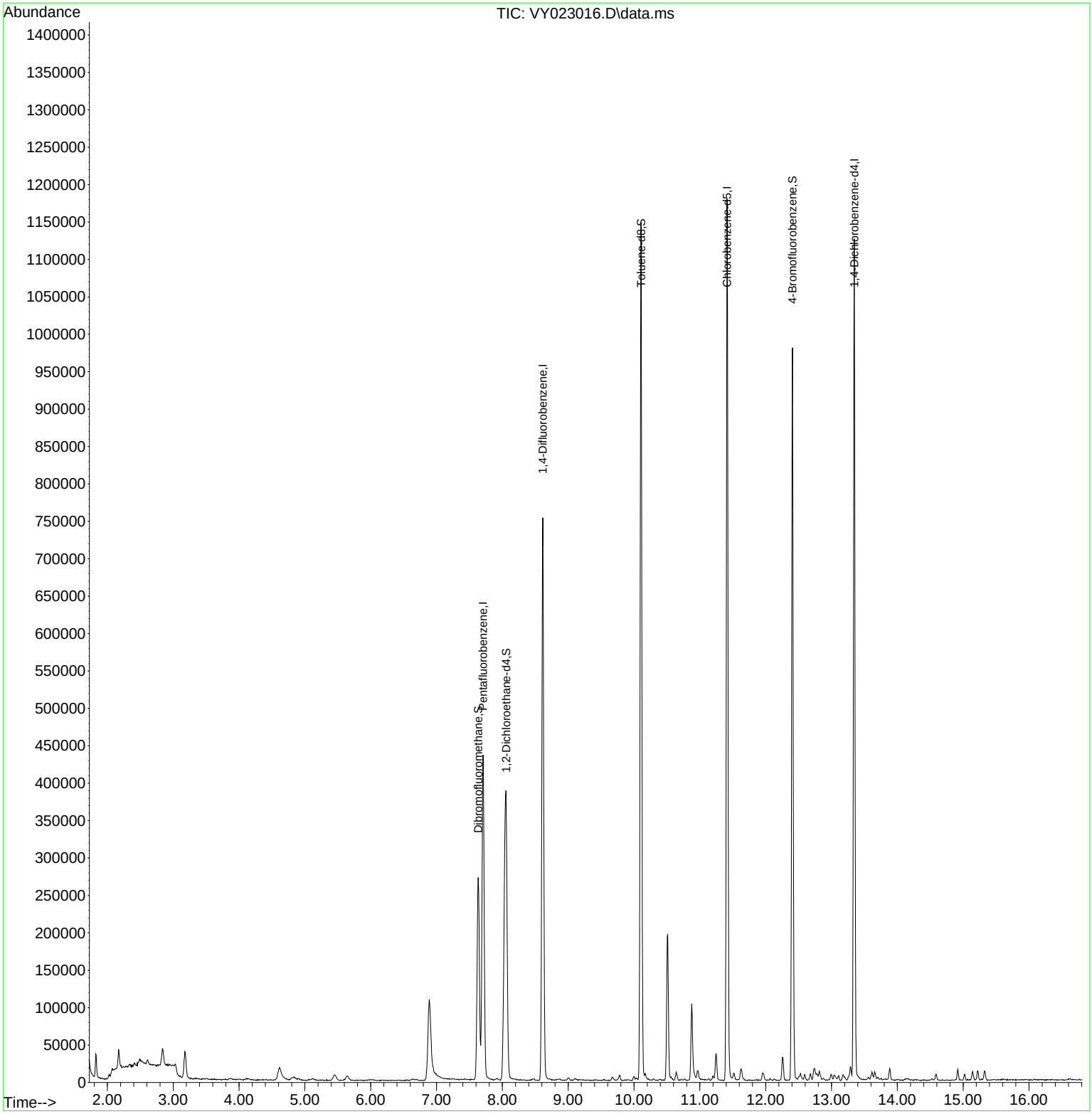
Target Compounds Qvalue

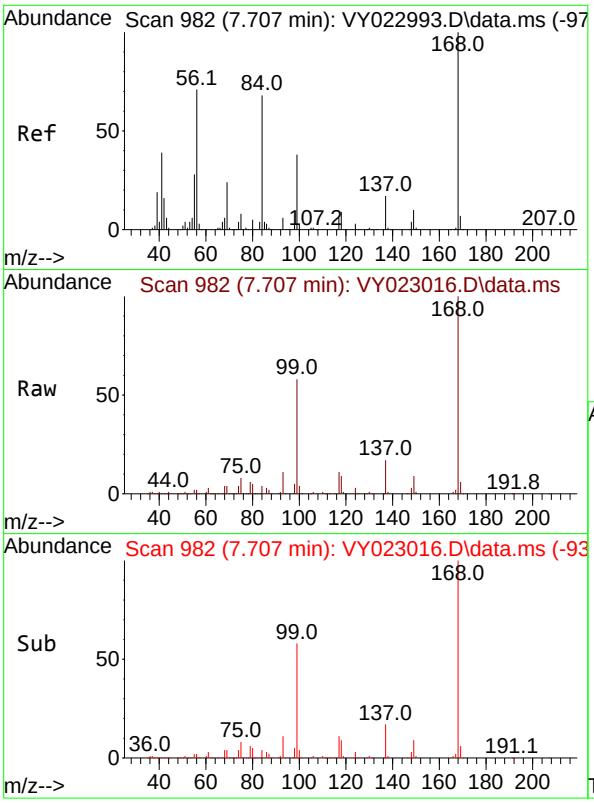
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023016.D
Acq On : 21 Jul 2025 10:39
Operator : SY/MD
Sample : VY0721SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

Quant Time: Jul 22 04:47:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



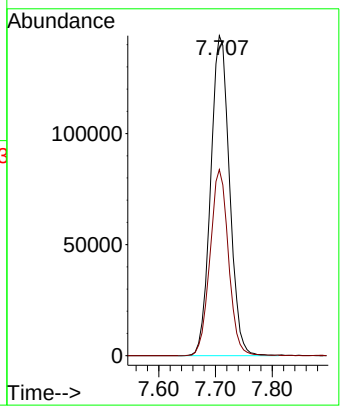


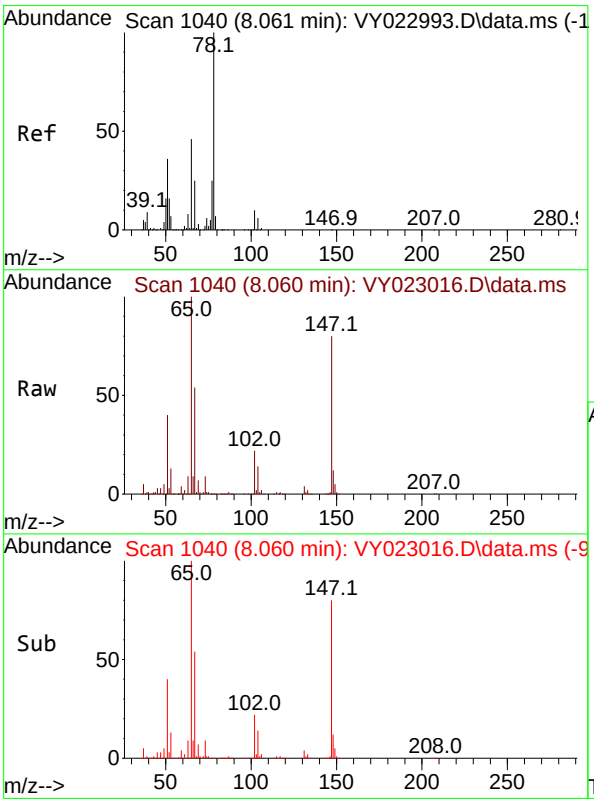
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

Tgt Ion:168 Resp: 332701

Ion	Ratio	Lower	Upper
168	100		
99	58.2	44.4	66.6

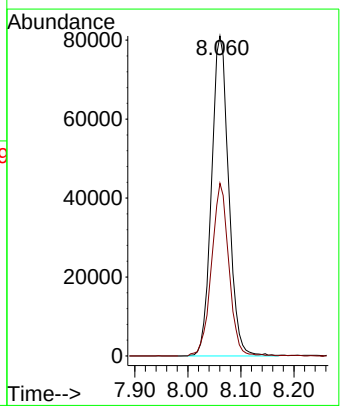


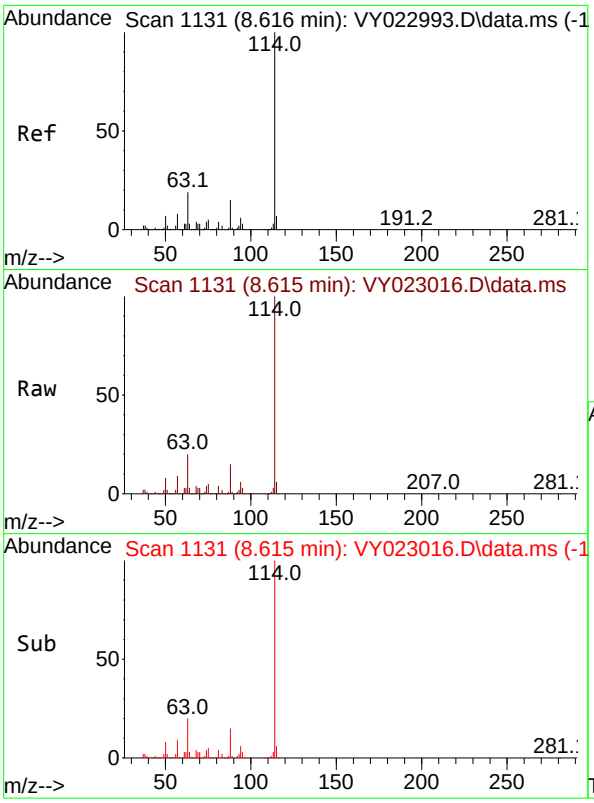


#33
1,2-Dichloroethane-d4
Concen: 54.044 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion: 65 Resp: 182021

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	107.4



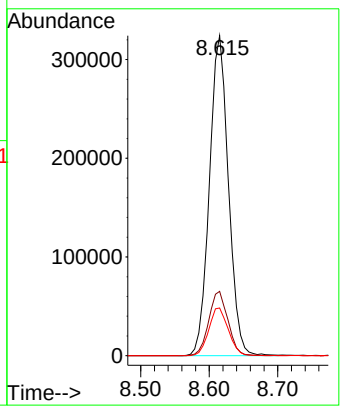


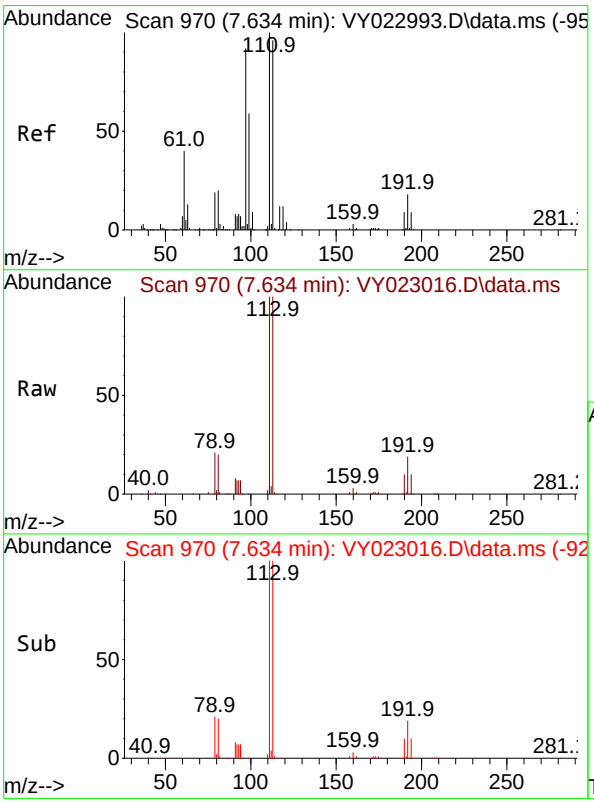
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

Tgt Ion:114 Resp: 625866

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	38.8
88	14.9	0.0	30.2

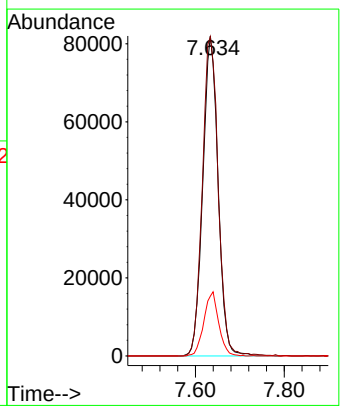


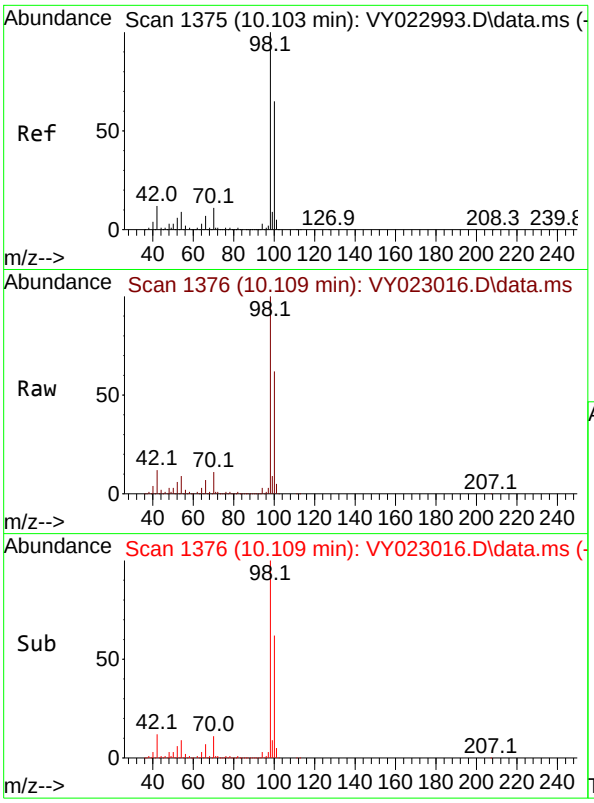


#35
Dibromofluoromethane
Concen: 49.568 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion:113 Resp: 196791

Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.2	124.8
192	19.4	15.3	22.9



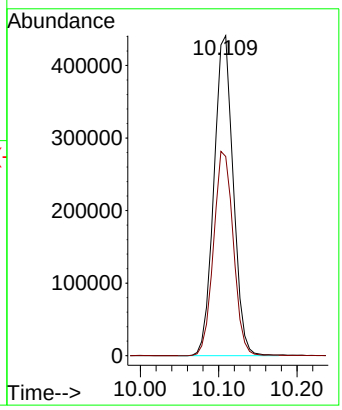


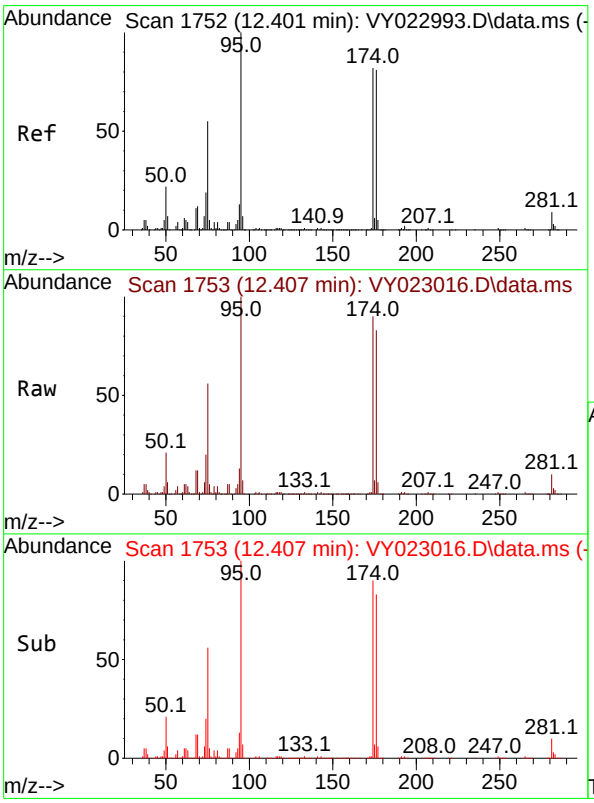
#50
Toluene-d8
Concen: 48.040 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

Tgt Ion: 98 Resp: 756332

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.2

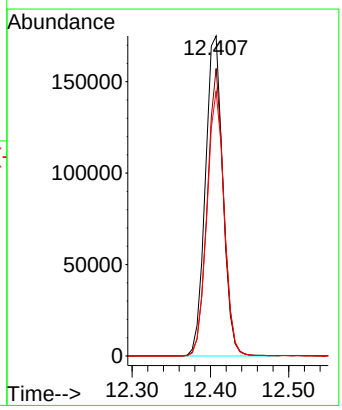


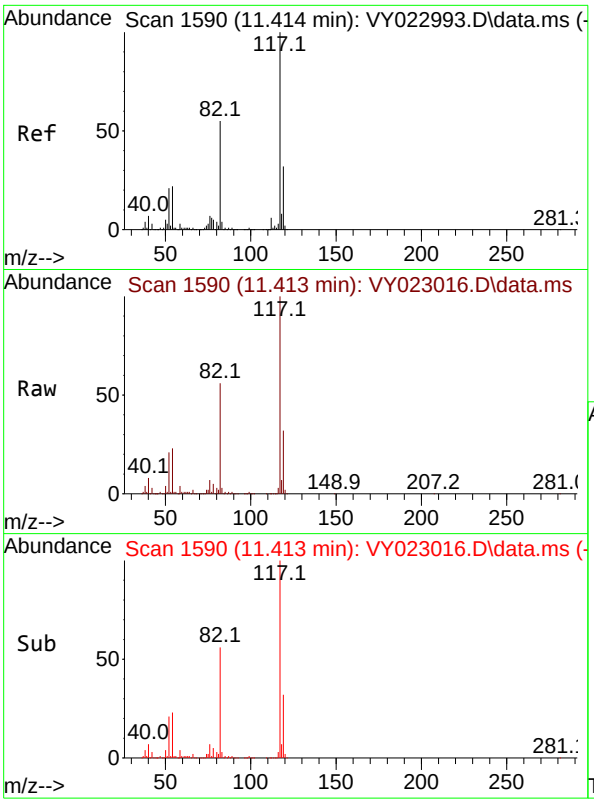


#62
4-Bromofluorobenzene
Concen: 54.716 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion: 95 Resp: 271169

Ion	Ratio	Lower	Upper
95	100		
174	84.6	0.0	170.8
176	81.4	0.0	163.6



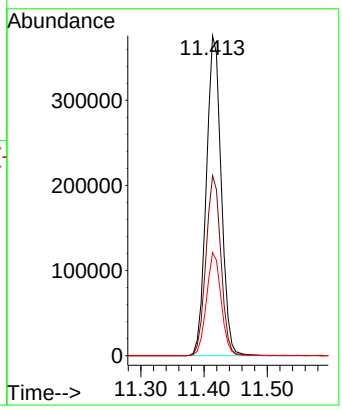


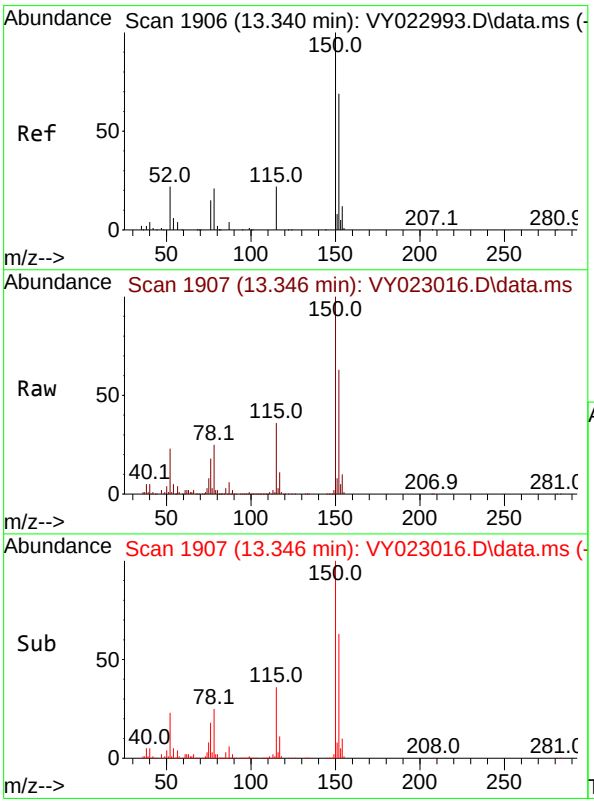
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

Tgt Ion:117 Resp: 615563

Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.3	66.5
119	32.2	25.8	38.8

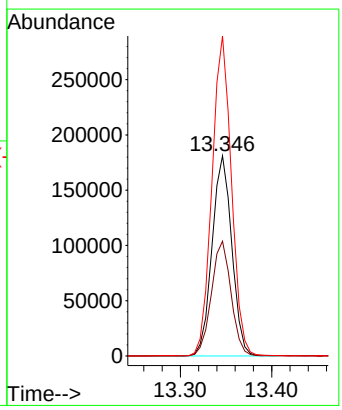




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion:152 Resp: 271493

Ion	Ratio	Lower	Upper
152	100		
115	57.2	29.4	88.2
150	157.4	0.0	350.0



Raw Data: **VY022999.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBS01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022999.D	1	07/18/25 15:37	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.020		0.0011	0.0040	0.0050	mg/Kg
74-87-3	Chloromethane	0.023		0.0011	0.0025	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.022		0.00079	0.0025	0.0050	mg/Kg
74-83-9	Bromomethane	0.024		0.0011	0.0040	0.0050	mg/Kg
75-00-3	Chloroethane	0.022		0.0013	0.0025	0.0050	mg/Kg
109-99-9	Tetrahydrofuran	0.11		0.0047	0.013	0.025	mg/Kg
75-69-4	Trichlorofluoromethane	0.022		0.0012	0.0040	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.020		0.0011	0.0025	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.020		0.0010	0.0025	0.0050	mg/Kg
107-13-1	Acrylonitrile	0.10		0.0050	0.013	0.025	mg/Kg
67-64-1	Acetone	0.10		0.0047	0.020	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.020		0.0011	0.0040	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.020		0.00073	0.0025	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.021		0.0035	0.0080	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.020		0.00086	0.0025	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.021		0.00080	0.0025	0.0050	mg/Kg
78-93-3	2-Butanone	0.11		0.0065	0.020	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.020		0.00097	0.0025	0.0050	mg/Kg
594-20-7	2,2-Dichloropropane	0.020		0.0013	0.0040	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.020		0.00075	0.0025	0.0050	mg/Kg
67-66-3	Chloroform	0.020		0.00084	0.0040	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.020		0.00093	0.0025	0.0050	mg/Kg
563-58-6	1,1-Dichloropropene	0.020		0.00087	0.0025	0.0050	mg/Kg
71-43-2	Benzene	0.020		0.00079	0.0025	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.020		0.00079	0.0025	0.0050	mg/Kg
79-01-6	Trichloroethene	0.020		0.00081	0.0025	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.020		0.00091	0.0025	0.0050	mg/Kg
74-95-3	Dibromomethane	0.020		0.00089	0.0025	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.020		0.00078	0.0025	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.11		0.0036	0.013	0.025	mg/Kg

Raw Data: **VY022999.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBS01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022999.D	1	07/18/25 15:37	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.020		0.00078	0.0025	0.0050	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.020		0.00065	0.0025	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.020		0.00062	0.0025	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.020		0.00092	0.0025	0.0050	mg/Kg
142-28-9	1,3-Dichloropropane	0.020		0.00068	0.0025	0.0050	mg/Kg
591-78-6	2-Hexanone	0.10		0.0037	0.013	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.020		0.00087	0.0025	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.020		0.00088	0.0025	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.020		0.0011	0.0025	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.019		0.00091	0.0025	0.0050	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.019		0.00077	0.0025	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.019		0.00067	0.0025	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.039		0.0012	0.0050	0.010	mg/Kg
1330-20-7	Total Xylenes	0.058		0.0020	0.0075	0.015	mg/Kg
95-47-6	o-Xylene	0.019		0.00082	0.0025	0.0050	mg/Kg
100-42-5	Styrene	0.019		0.00071	0.0025	0.0050	mg/Kg
75-25-2	Bromoform	0.019		0.00086	0.0025	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.019		0.00078	0.0025	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.019		0.0012	0.0025	0.0050	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.018		0.0012	0.0040	0.0050	mg/Kg
108-86-1	Bromobenzene	0.019		0.0012	0.0025	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.020		0.00073	0.0025	0.0050	mg/Kg
95-49-8	2-Chlorotoluene	0.019		0.00068	0.0025	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.019		0.00082	0.0025	0.0050	mg/Kg
106-43-4	4-Chlorotoluene	0.020		0.0012	0.0025	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.019		0.00067	0.0025	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.019		0.00064	0.0025	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.019		0.00066	0.0025	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.019		0.00062	0.0025	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.019		0.0017	0.0025	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.019		0.0016	0.0025	0.0050	mg/Kg

Raw Data: **VY022999.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBS01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022999.D	1	07/18/25 15:37	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.020		0.0015	0.0025	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.019		0.0015	0.0025	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.021		0.0018	0.0040	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.020		0.0030	0.0040	0.0050	mg/Kg
87-68-3	Hexachlorobutadiene	0.019		0.0019	0.0025	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.020		0.0032	0.0040	0.0050	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.019		0.0011	0.0025	0.0050	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		71 - 136		101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		78 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.2		85 - 116		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		79 - 119		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	436000	7.707				
540-36-3	1,4-Difluorobenzene	709000	8.616				
3114-55-4	Chlorobenzene-d5	603000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	279000	13.341				

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\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY0718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	436221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	709471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	602809	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	278729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	222189	50.315	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.620%			
35) Dibromofluoromethane	7.628	113	217239	48.271	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.540%			
50) Toluene-d8	10.103	98	860531	48.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.440%			
62) 4-Bromofluorobenzene	12.402	95	263791	46.955	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 93.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	75357	20.345	ug/l	98
3) Chloromethane	2.068	50	143349	22.761	ug/l	100
4) Vinyl Chloride	2.202	62	174459	21.864	ug/l	98
5) Bromomethane	2.586	94	137833	23.934	ug/l	99
6) Chloroethane	2.727	64	116439	21.850	ug/l	99
7) Trichlorofluoromethane	3.050	101	199524	21.541	ug/l	97
8) Diethyl Ether	3.452	74	50273	20.738	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	97156	19.967	ug/l	98
10) Methyl Iodide	4.001	142	81242	16.072	ug/l	99
11) Tert butyl alcohol	4.860	59	28396	106.325	ug/l	99
12) 1,1-Dichloroethene	3.781	96	93190	20.105	ug/l	99
13) Acrolein	3.641	56	18970	151.160	ug/l	98
14) Allyl chloride	4.379	41	141428	20.027	ug/l	99
15) Acrylonitrile	5.055	53	96308	104.884	ug/l	99
16) Acetone	3.867	43	83745	104.618	ug/l	95
17) Carbon Disulfide	4.098	76	286780	20.414	ug/l	99
18) Methyl Acetate	4.385	43	50379	18.590	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	225167	20.252	ug/l	99
20) Methylene Chloride	4.610	84	143610	20.608	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	102881	19.939	ug/l	96
22) Diisopropyl ether	6.019	45	309507	20.659	ug/l	99
23) Vinyl Acetate	5.958	43	808040	107.044	ug/l	99
24) 1,1-Dichloroethane	5.909	63	193829	20.598	ug/l	99
25) 2-Butanone	6.897	43	122652	106.806	ug/l	98
26) 2,2-Dichloropropane	6.878	77	161606	19.596	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	119300	20.062	ug/l	98
28) Bromochloromethane	7.244	49	77532	21.243	ug/l	96
29) Tetrahydrofuran	7.262	42	76482	105.194	ug/l	99
30) Chloroform	7.415	83	191909	20.217	ug/l	97
31) Cyclohexane	7.701	56	174472	19.843	ug/l	97
32) 1,1,1-Trichloroethane	7.610	97	171608	19.924	ug/l	99
36) 1,1-Dichloropropene	7.835	75	140975	19.887	ug/l	100
37) Ethyl Acetate	6.982	43	54365	20.649	ug/l	97
38) Carbon Tetrachloride	7.817	117	149882	19.461	ug/l	96
39) Methylcyclohexane	9.103	83	178734	19.480	ug/l	99
40) Benzene	8.079	78	425586	19.939	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY0718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	29307	20.434	ug/l		96
42) 1,2-Dichloroethane	8.152	62	108352	20.404	ug/l		99
43) Isopropyl Acetate	8.195	43	111756	21.370	ug/l	#	86
44) Trichloroethene	8.860	130	107207	19.555	ug/l		98
45) 1,2-Dichloropropane	9.140	63	97977	19.657	ug/l		100
46) Dibromomethane	9.231	93	52396	20.337	ug/l		99
47) Bromodichloromethane	9.420	83	142366	19.991	ug/l		99
48) Methyl methacrylate	9.219	41	53129	21.043	ug/l		99
49) 1,4-Dioxane	9.225	88	10892m	401.070	ug/l		
51) 4-Methyl-2-Pentanone	9.994	43	279720	105.379	ug/l		99
52) Toluene	10.170	92	263920	19.888	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	119486	19.545	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	144882	19.663	ug/l		96
55) 1,1,2-Trichloroethane	10.567	97	68786	20.313	ug/l		96
56) Ethyl methacrylate	10.439	69	84145	19.906	ug/l		98
57) 1,3-Dichloropropane	10.713	76	118536	20.264	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	207251	100.158	ug/l		99
59) 2-Hexanone	10.756	43	182559	104.630	ug/l		98
60) Dibromochloromethane	10.908	129	88291	19.911	ug/l		99
61) 1,2-Dibromoethane	11.012	107	61533	20.010	ug/l		98
64) Tetrachloroethene	10.646	164	125172	20.315	ug/l		95
65) Chlorobenzene	11.438	112	274210	19.277	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.512	131	92484	19.062	ug/l		99
67) Ethyl Benzene	11.518	91	489285	19.406	ug/l		97
68) m/p-Xylenes	11.627	106	375895	38.869	ug/l		100
69) o-Xylene	11.951	106	171968	19.161	ug/l		99
70) Styrene	11.969	104	281919	19.177	ug/l		100
71) Bromoform	12.127	173	47203	19.165	ug/l	#	99
73) Isopropylbenzene	12.249	105	456033	19.298	ug/l		100
74) N-amyl acetate	12.066	43	93486	20.983	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	66193	19.356	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	61566m	17.726	ug/l		
77) Bromobenzene	12.530	156	97397	19.003	ug/l		97
78) n-propylbenzene	12.591	91	551100	19.583	ug/l		99
79) 2-Chlorotoluene	12.676	91	307709	19.442	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	358710	19.246	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	22618	19.396	ug/l		97
82) 4-Chlorotoluene	12.774	91	314623	19.710	ug/l		99
83) tert-Butylbenzene	12.993	119	315405	18.735	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	356535	19.433	ug/l		99
85) sec-Butylbenzene	13.170	105	486092	19.267	ug/l		99
86) p-Isopropyltoluene	13.286	119	397045	19.377	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	194823	18.836	ug/l		98
88) 1,4-Dichlorobenzene	13.359	146	191774	19.165	ug/l		98
89) n-Butylbenzene	13.615	91	370199	19.579	ug/l		99
90) Hexachloroethane	13.877	117	80585	18.996	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	167090	19.151	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10483	20.645	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	89924	19.553	ug/l		98
94) Hexachlorobutadiene	15.017	225	55423	19.115	ug/l		98
95) Naphthalene	15.139	128	143662	19.476	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	74797	19.697	ug/l		99

Sample Results: **VY022999.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY0718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

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

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

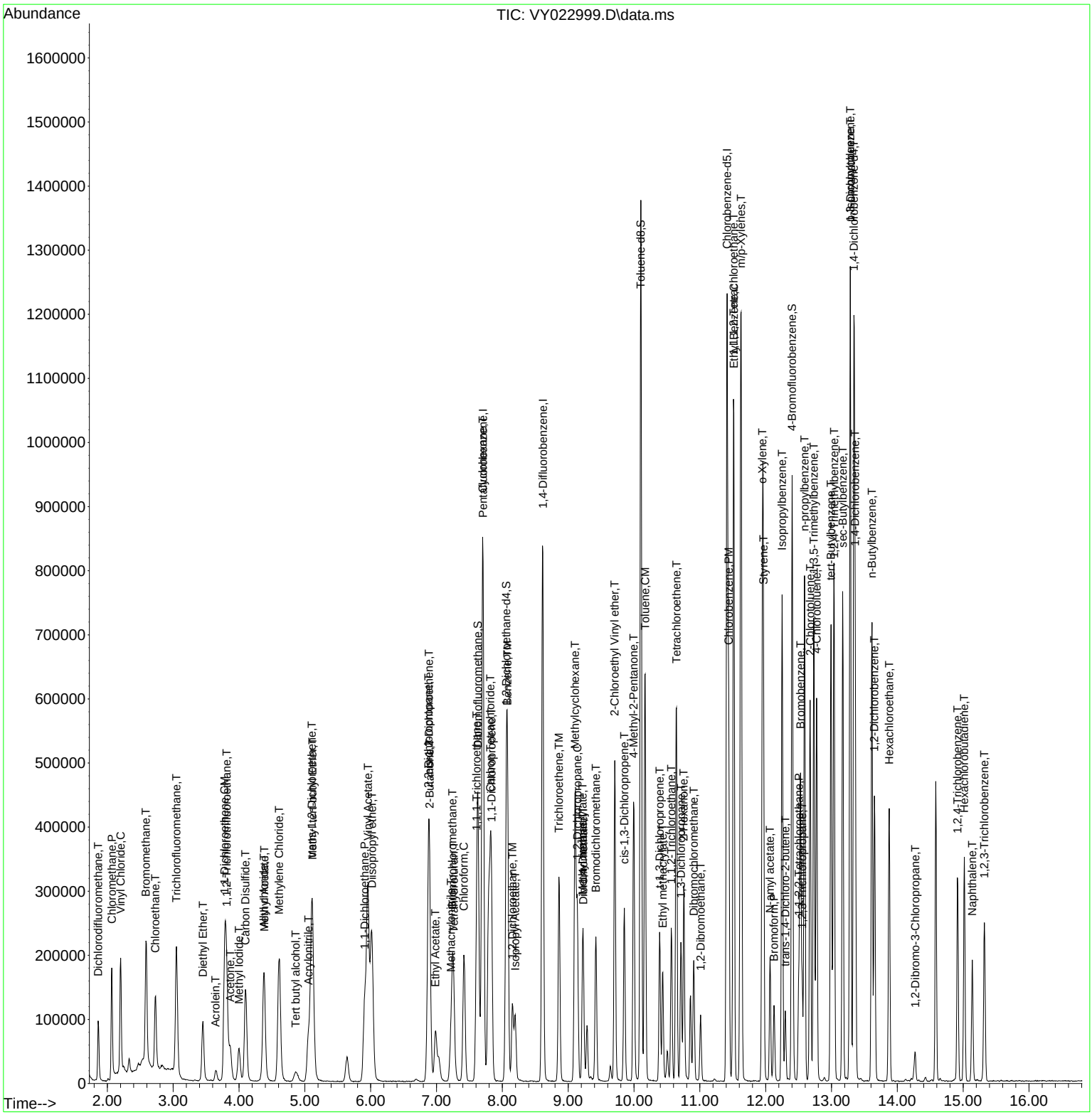
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY0718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

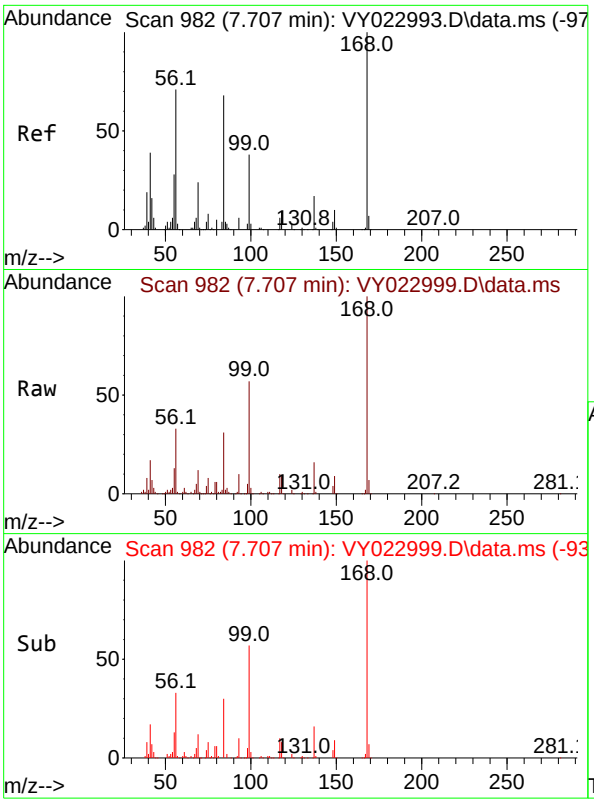
Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

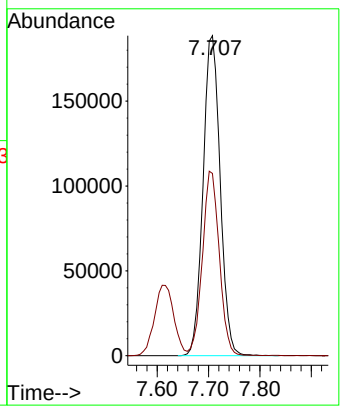
Tgt Ion:168 Resp: 43622

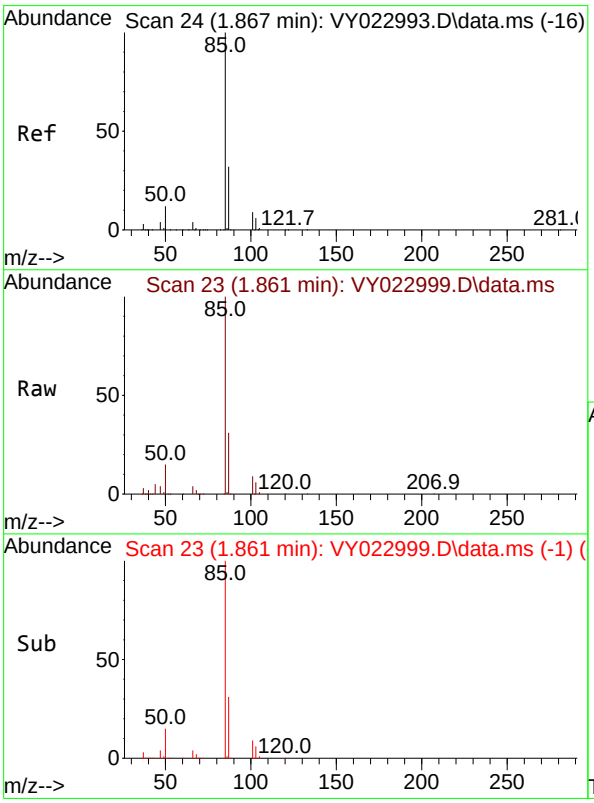
Ion	Ratio	Lower	Upper
168	100		
99	56.9	44.4	66.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

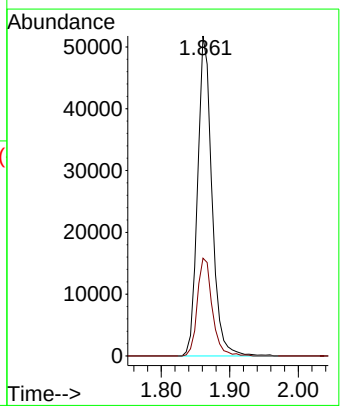


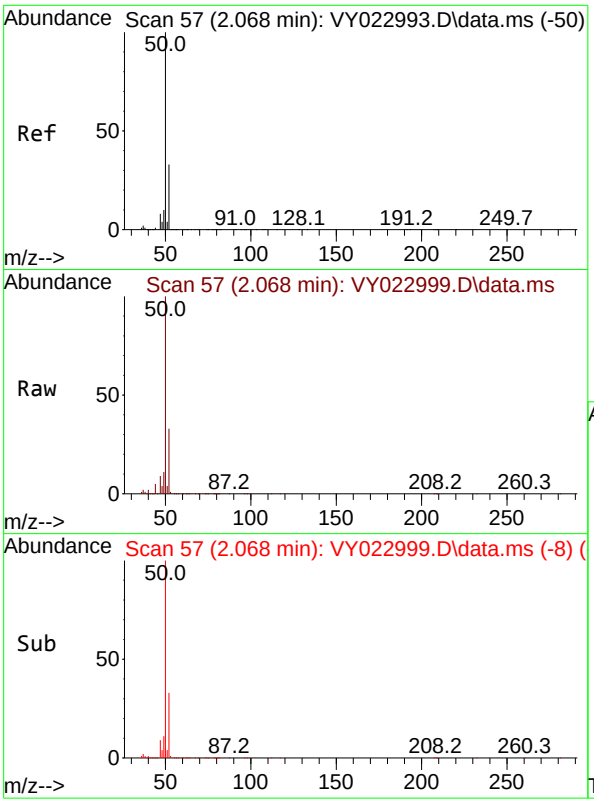


#2
Dichlorodifluoromethane
Concen: 20.345 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 85 Resp: 75357

Ion	Ratio	Lower	Upper
85	100		
87	30.6	16.0	47.9





#3
Chloromethane
Concen: 22.761 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

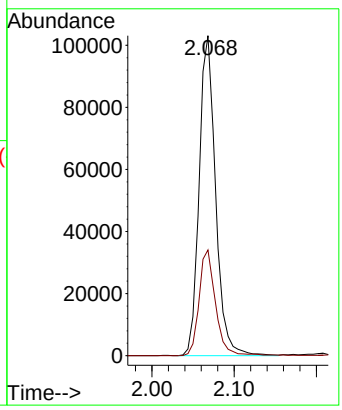
Tgt Ion: 50 Resp: 14334

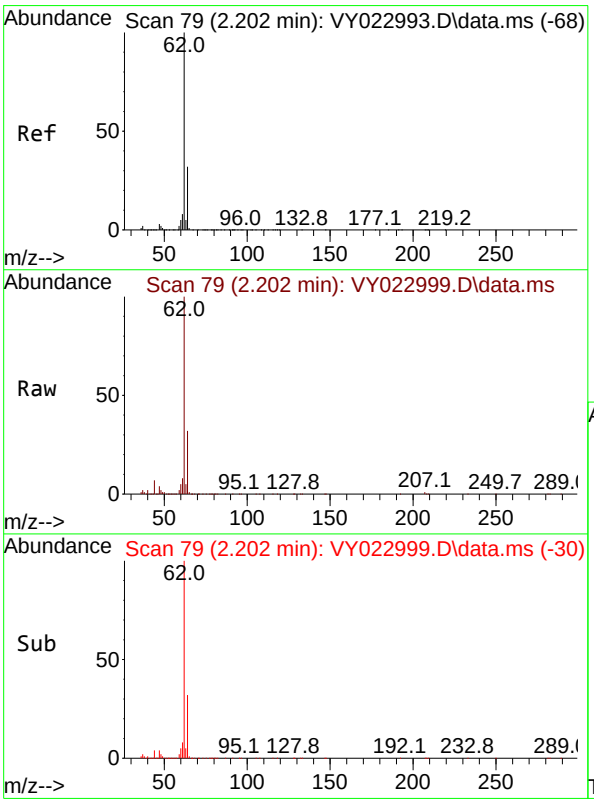
Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

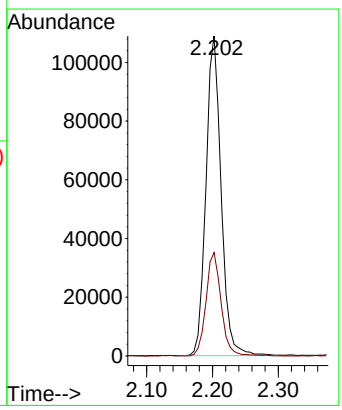


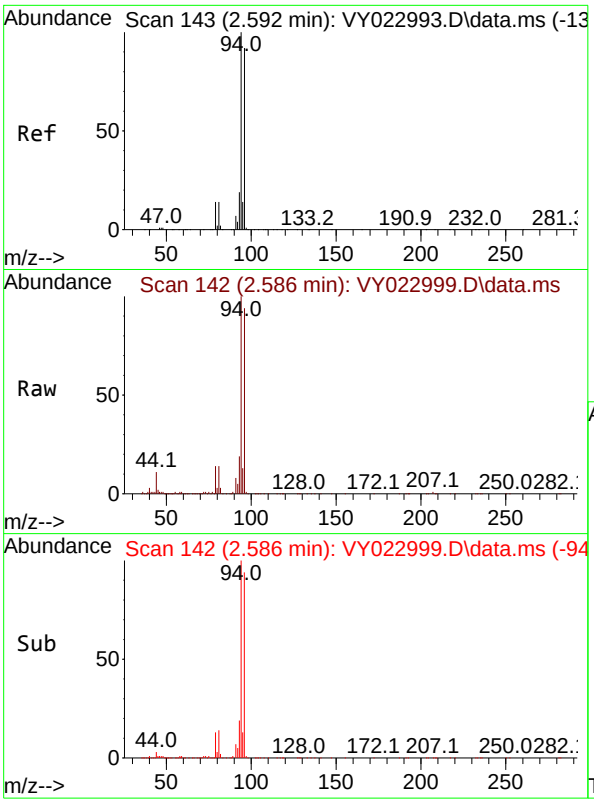


#4
Vinyl Chloride
Concen: 21.864 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 62 Resp: 174459

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8





#5
Bromomethane
Concen: 23.934 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

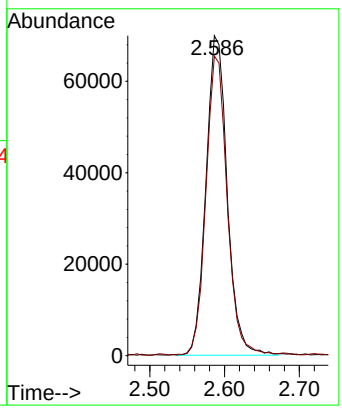
Tgt Ion: 94 Resp: 13783

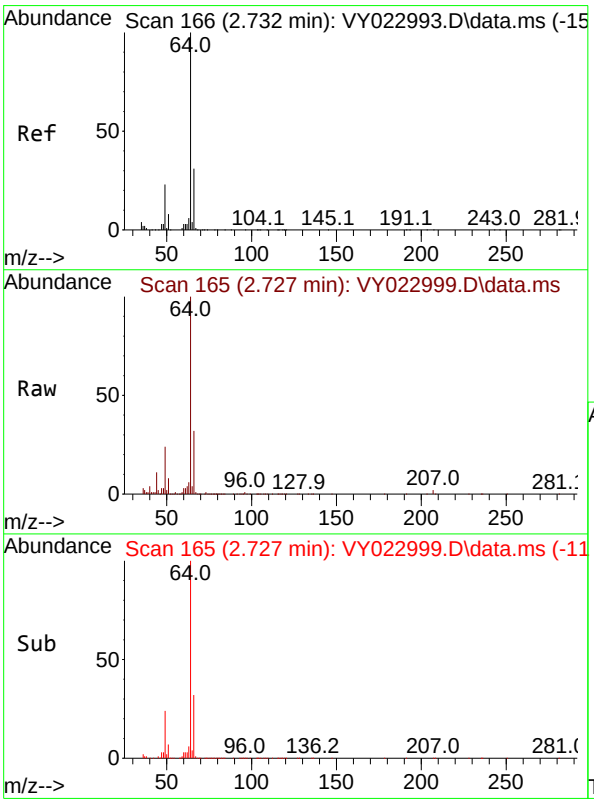
Ion	Ratio	Lower	Upper
94	100		
96	93.4	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

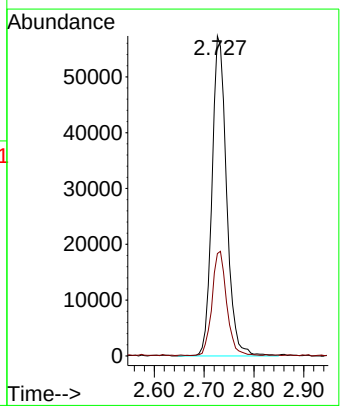


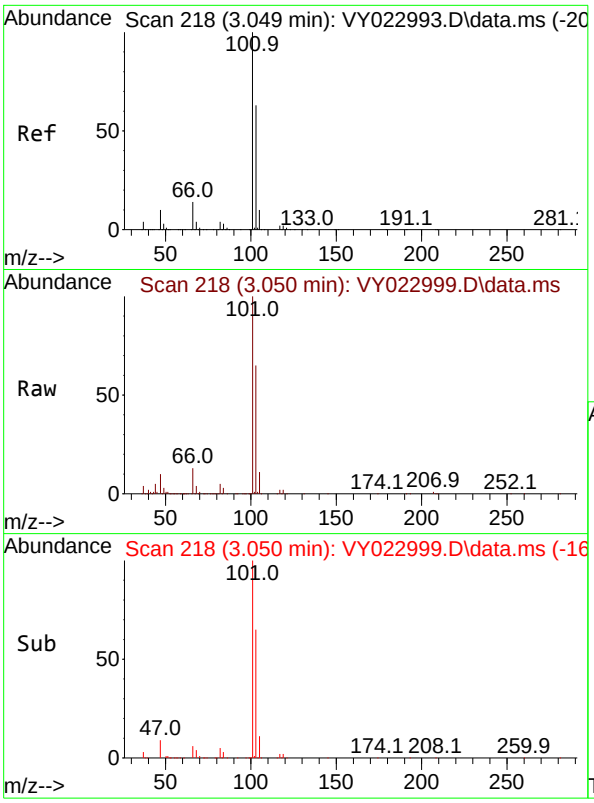


#6
Chloroethane
Concen: 21.850 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 64 Resp: 116439

Ion	Ratio	Lower	Upper
64	100		
66	31.8	24.9	37.3





#7
Trichlorofluoromethane
Concen: 21.541 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

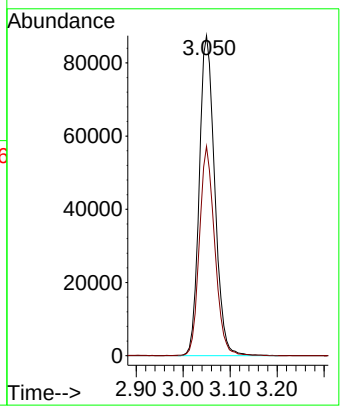
Tgt Ion:101 Resp: 19952

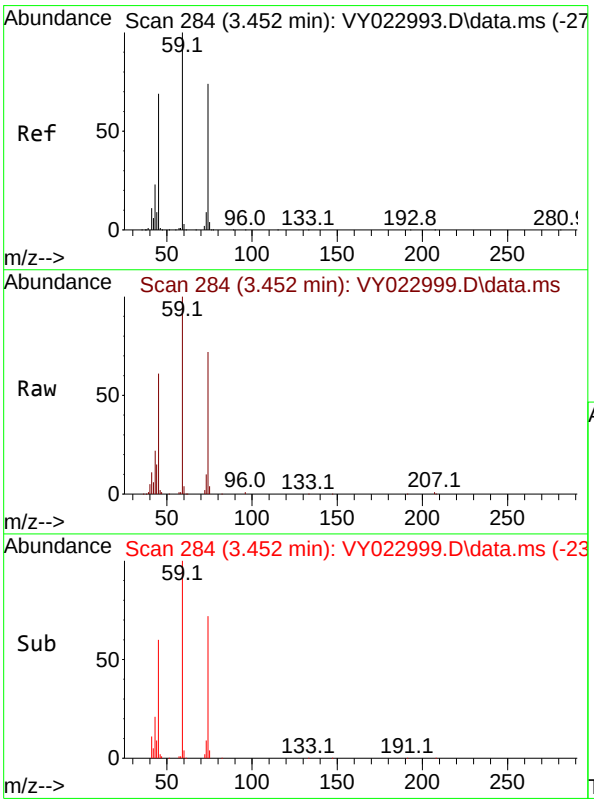
Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.7	76.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

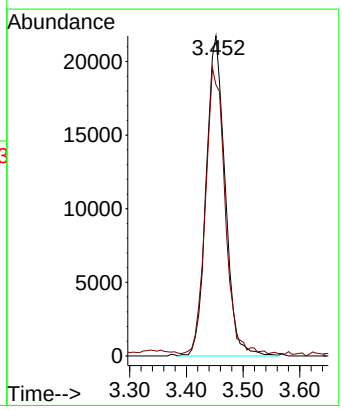


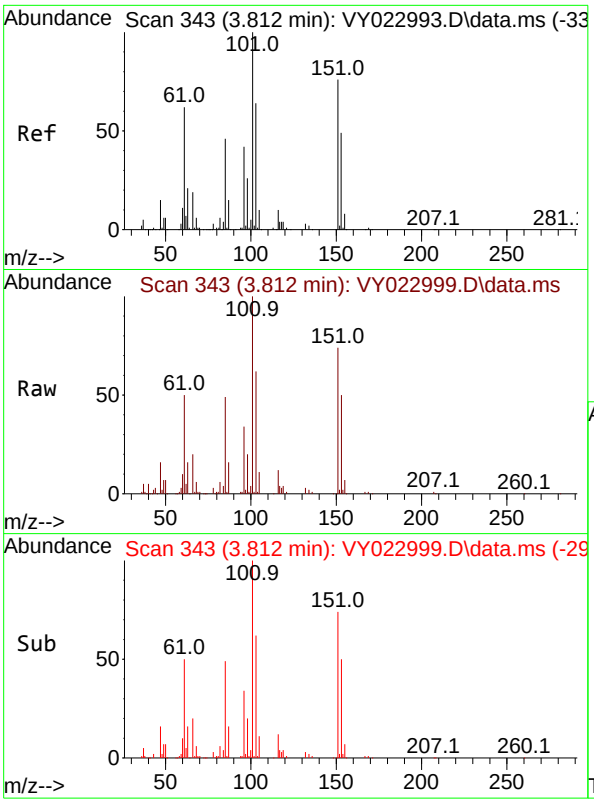


#8
Diethyl Ether
Concen: 20.738 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 74 Resp: 50273

Ion	Ratio	Lower	Upper
74	100		
45	91.9	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.967 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

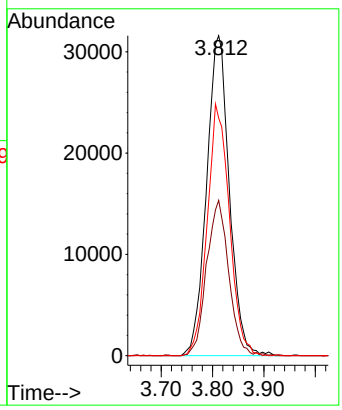
Tgt Ion:101 Resp: 9715

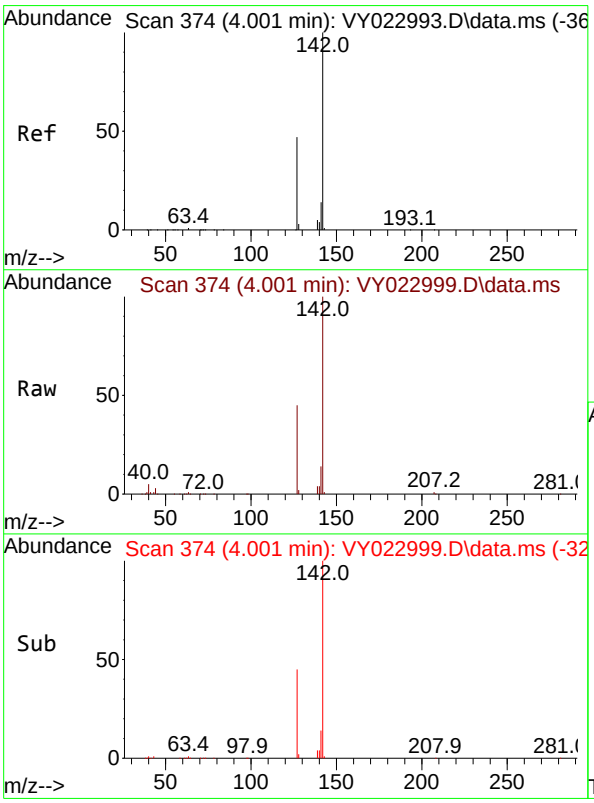
Ion	Ratio	Lower	Upper
101	100		
85	47.4	37.2	55.8
151	76.4	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

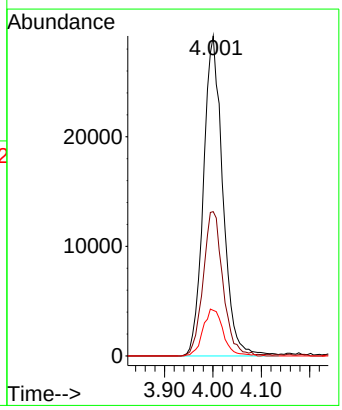


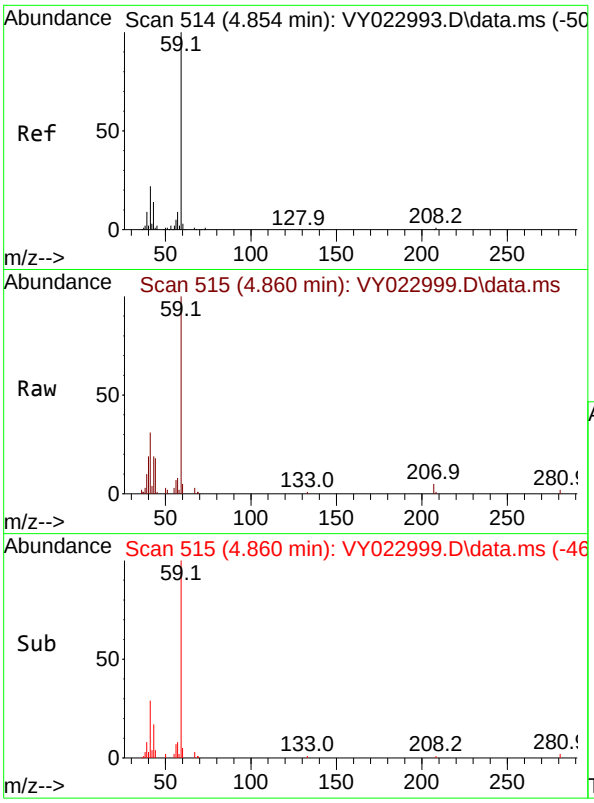


#10
Methyl Iodide
Concen: 16.072 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:142 Resp: 81242

Ion	Ratio	Lower	Upper
142	100		
127	46.3	37.0	55.6
141	15.2	11.4	17.2

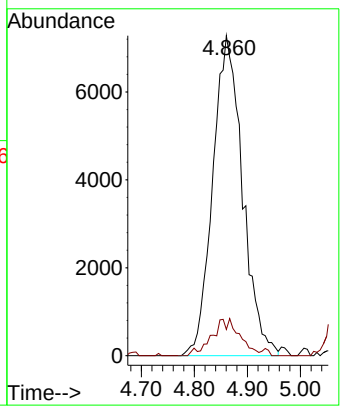




#11
Tert butyl alcohol
Concen: 106.325 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 59 Resp: 2839

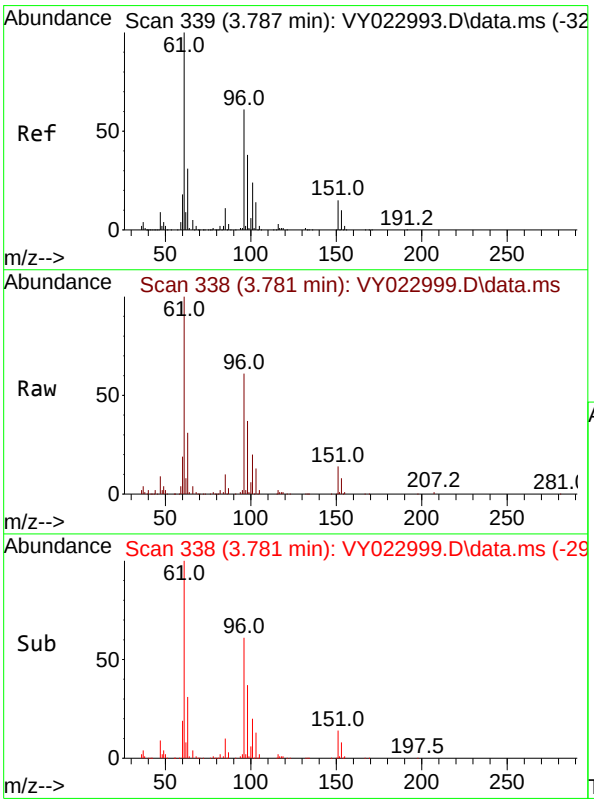
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

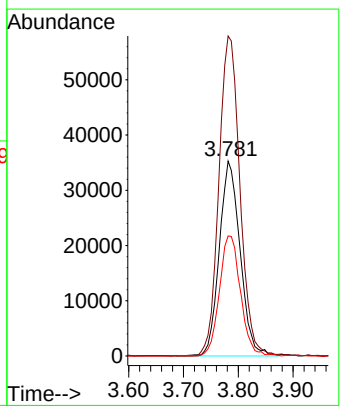
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

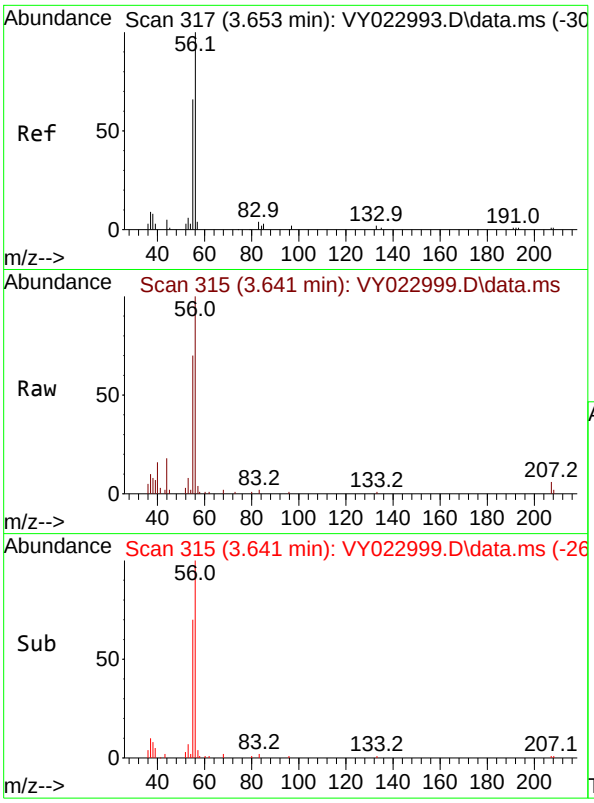


#12
1,1-Dichloroethene
Concen: 20.105 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 96 Resp: 93190

Ion	Ratio	Lower	Upper
96	100		
61	164.2	130.4	195.6
98	61.6	49.6	74.4





#13
Acrolein
Concen: 151.160 ug/l
RT: 3.641 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

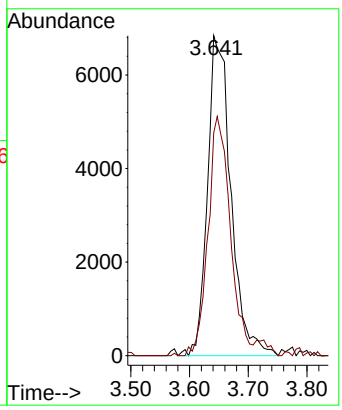
Tgt Ion: 56 Resp: 1897

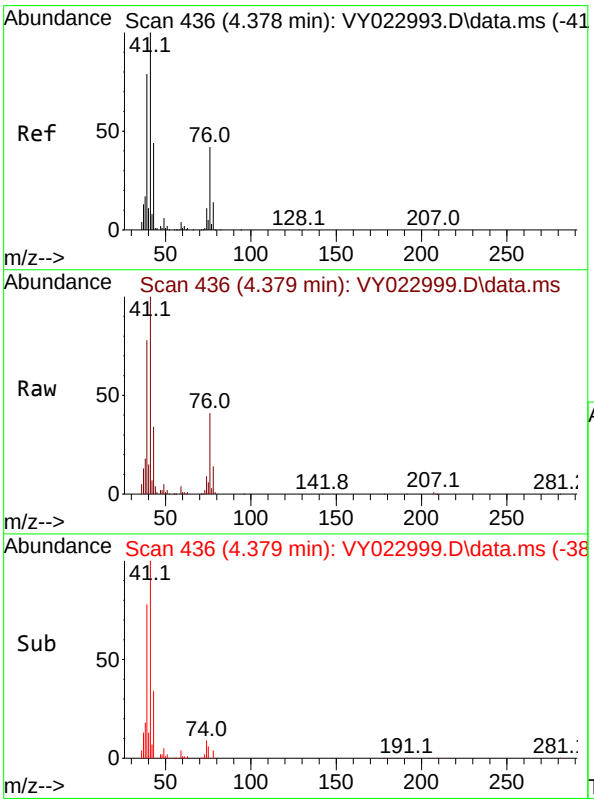
Ion	Ratio	Lower	Upper
56	100		
55	70.7	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

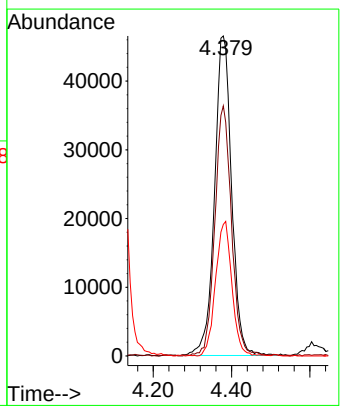


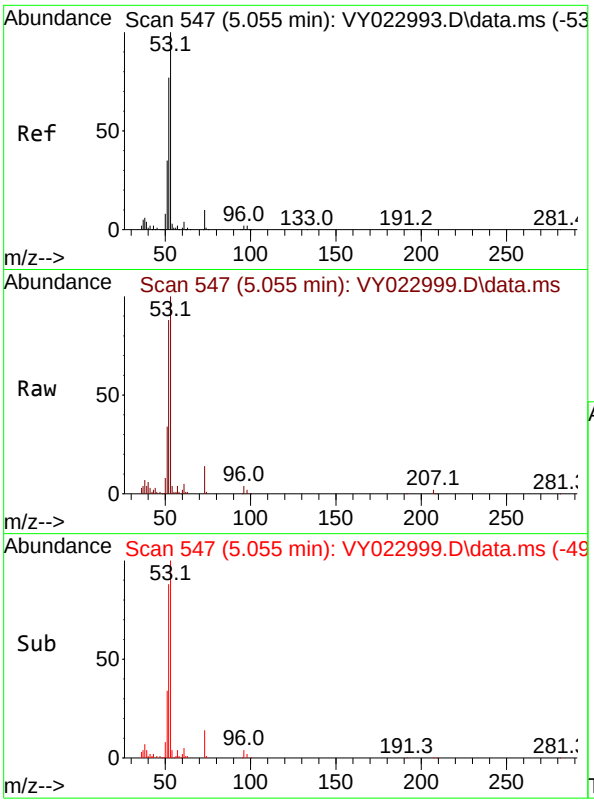


#14
Allyl chloride
Concen: 20.027 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 41 Resp: 141428

Ion	Ratio	Lower	Upper
41	100		
39	76.4	60.1	90.1
76	40.3	32.2	48.4





#15
Acrylonitrile
Concen: 104.884 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

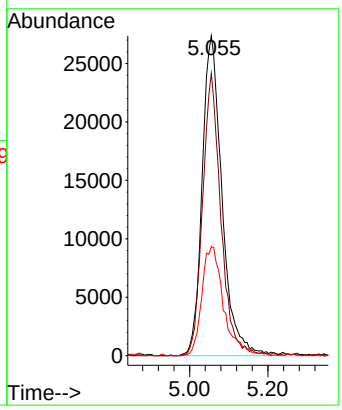
Tgt Ion: 53 Resp: 9630

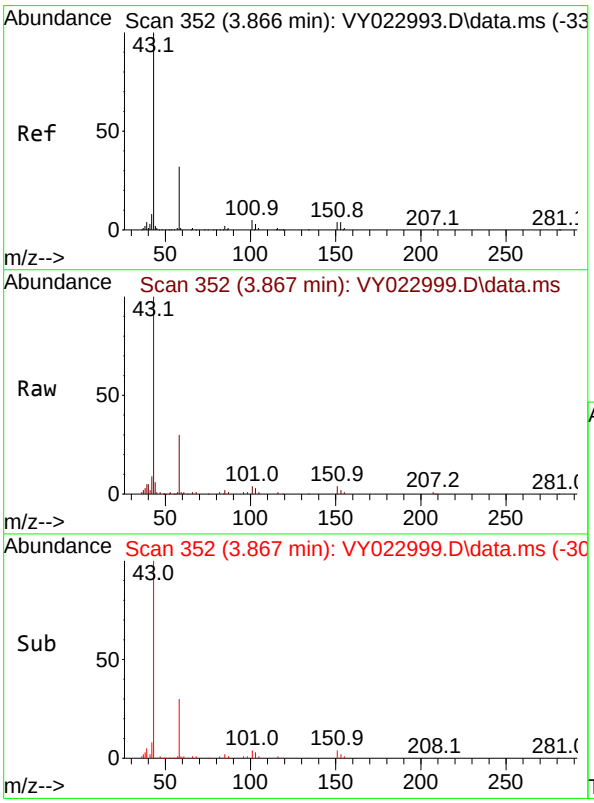
Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.2	97.8
51	37.2	30.3	45.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

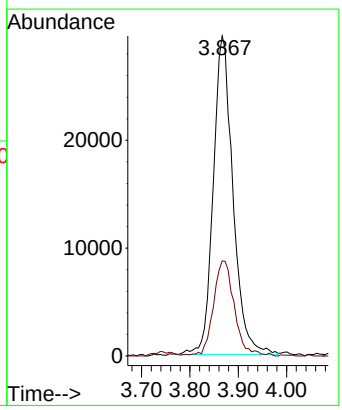


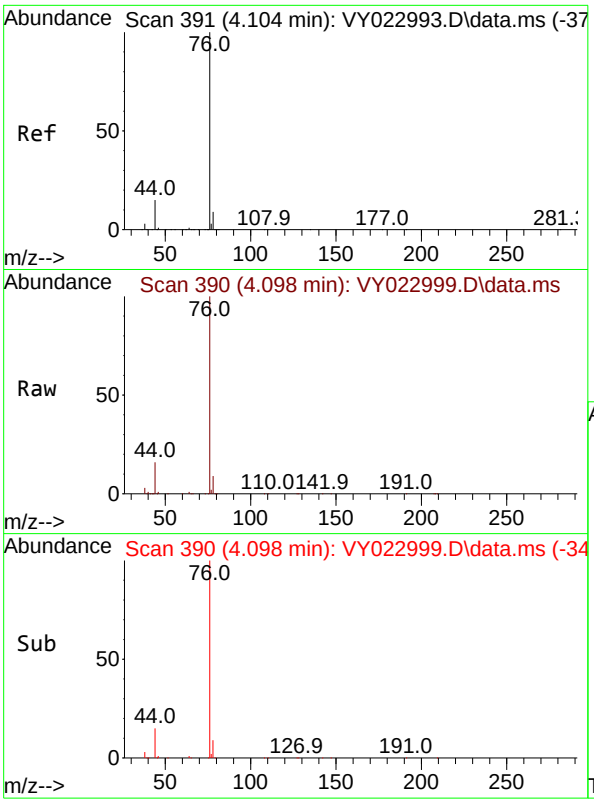


#16
Acetone
Concen: 104.618 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 83745

Ion	Ratio	Lower	Upper
43	100		
58	29.8	26.2	39.4





#17
Carbon Disulfide
Concen: 20.414 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

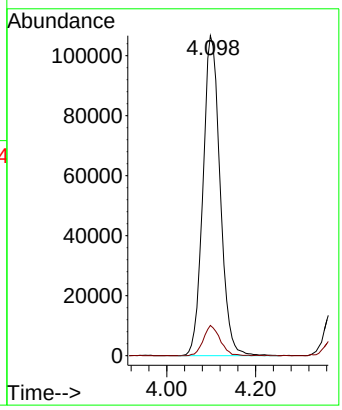
Tgt Ion: 76 Resp: 28678

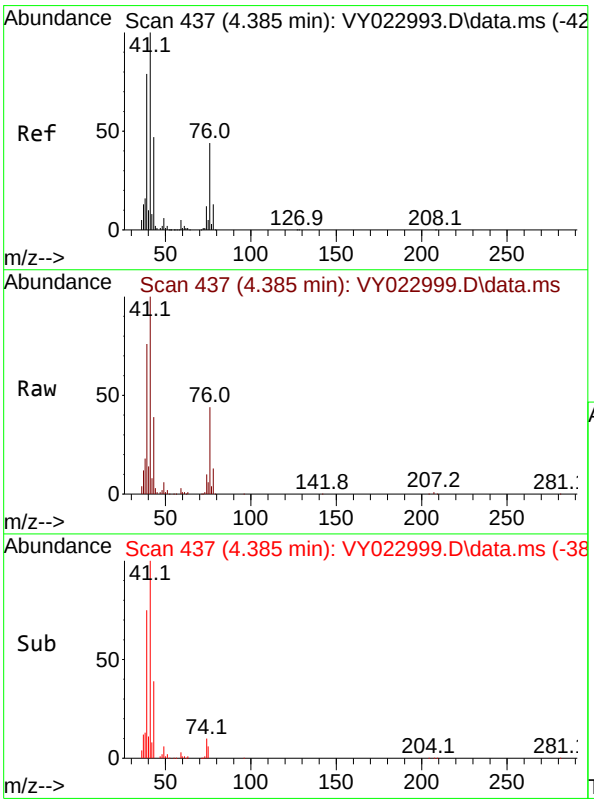
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

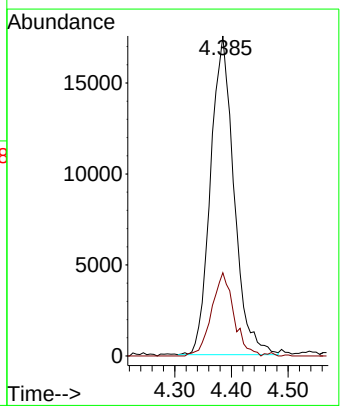


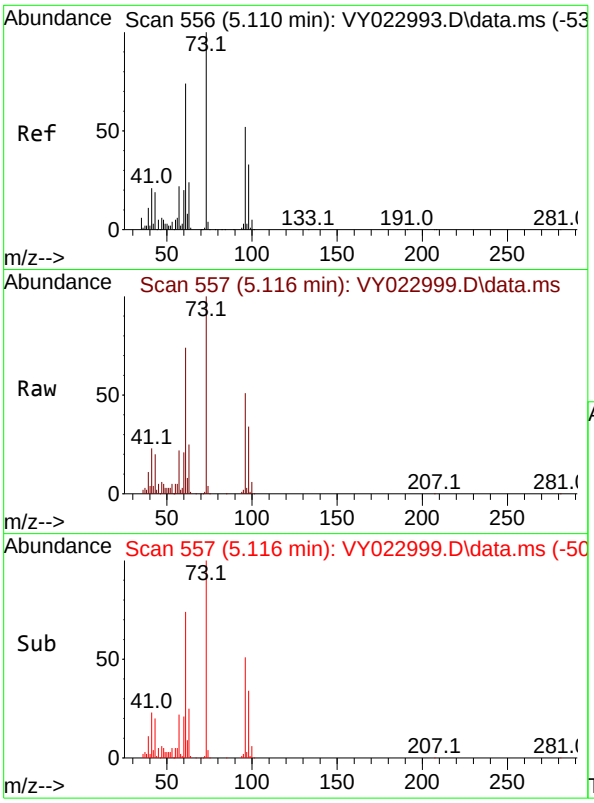


#18
Methyl Acetate
Concen: 18.590 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 50379

Ion	Ratio	Lower	Upper
43	100		
74	24.8	20.1	30.1

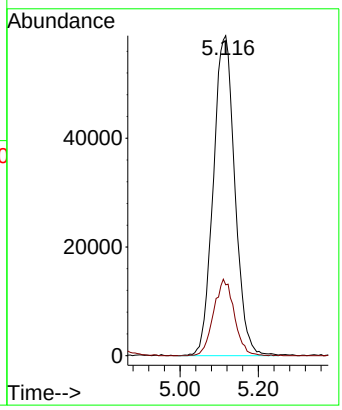




#19
Methyl tert-butyl Ether
Concen: 20.252 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 73 Resp: 22516

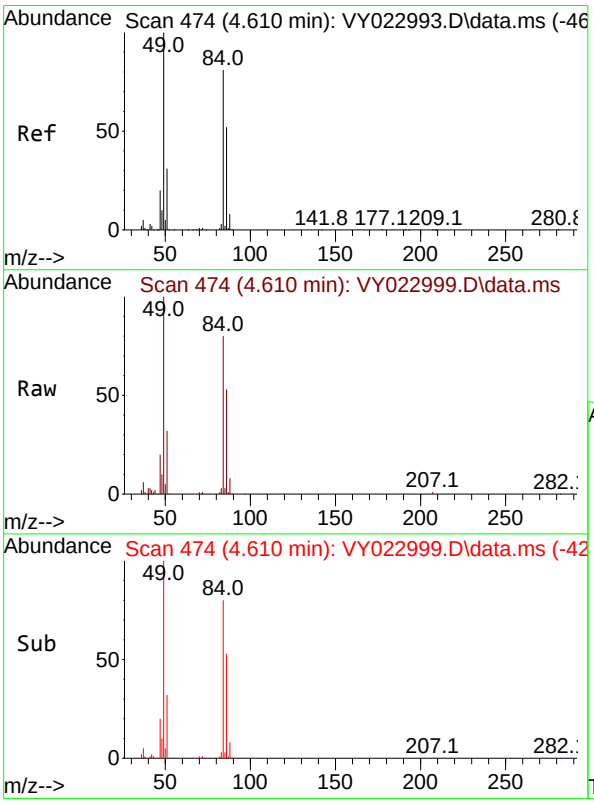
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

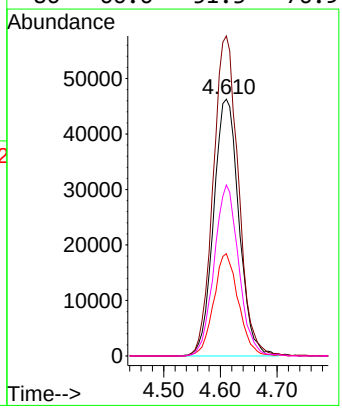
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

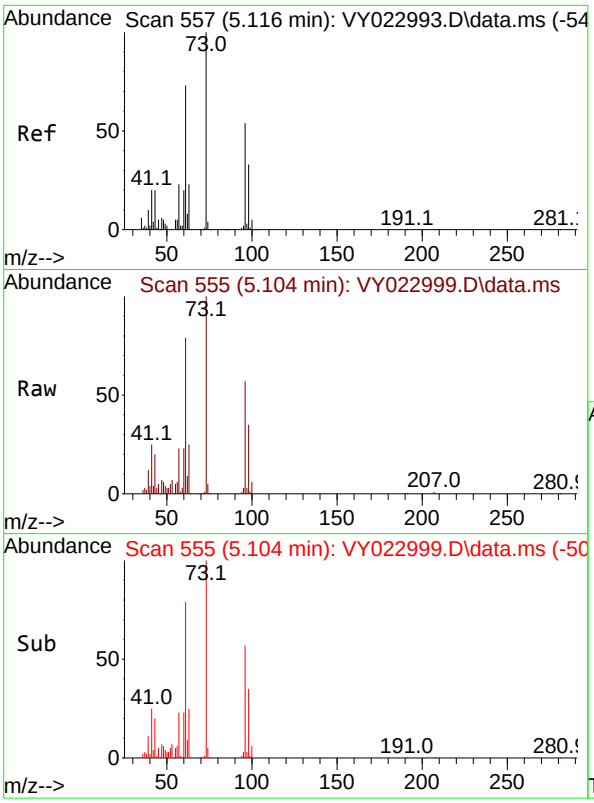


#20
Methylene Chloride
Concen: 20.608 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 84 Resp: 143610

Ion	Ratio	Lower	Upper
84	100		
49	124.6	98.2	147.4
51	39.8	30.5	45.7
86	66.6	51.3	76.9

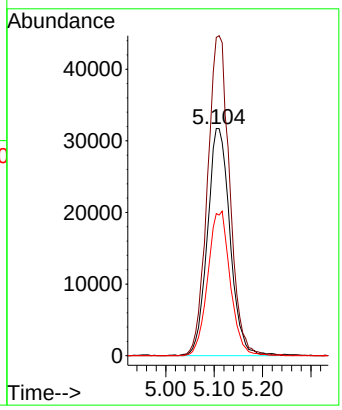




#21
trans-1,2-Dichloroethene
Concen: 19.939 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 96 Resp: 10288

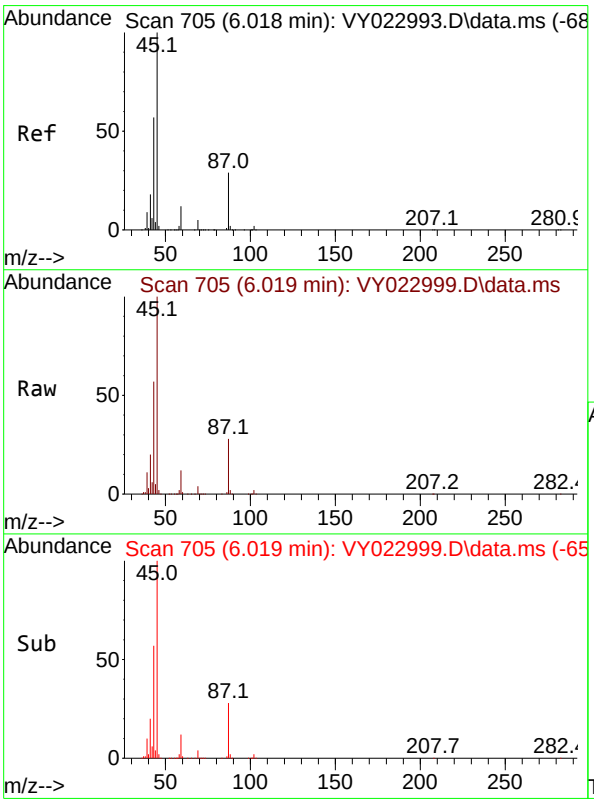
Ion	Ratio	Lower	Upper
96	100		
61	140.1	107.4	161.2
98	62.6	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

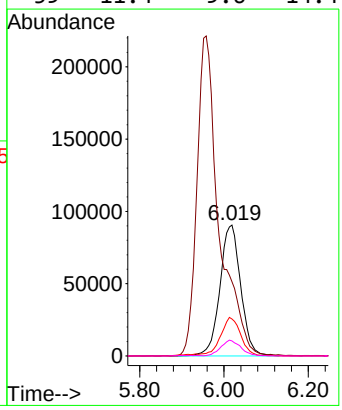
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

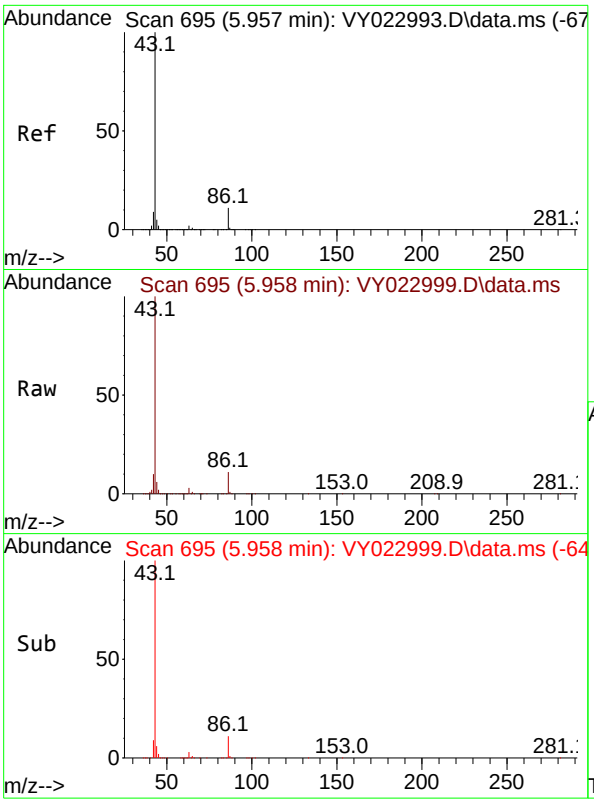


#22
Diisopropyl ether
Concen: 20.659 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 45 Resp: 309507

Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.3	67.9
87	28.2	23.3	34.9
59	11.4	9.6	14.4





#23
Vinyl Acetate
Concen: 107.044 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

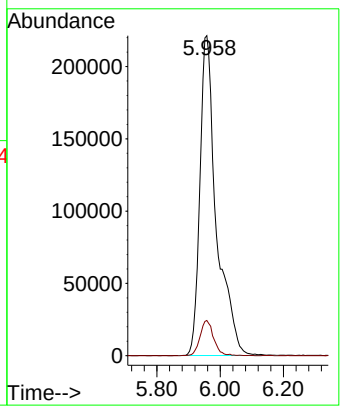
Tgt Ion: 43 Resp: 80804

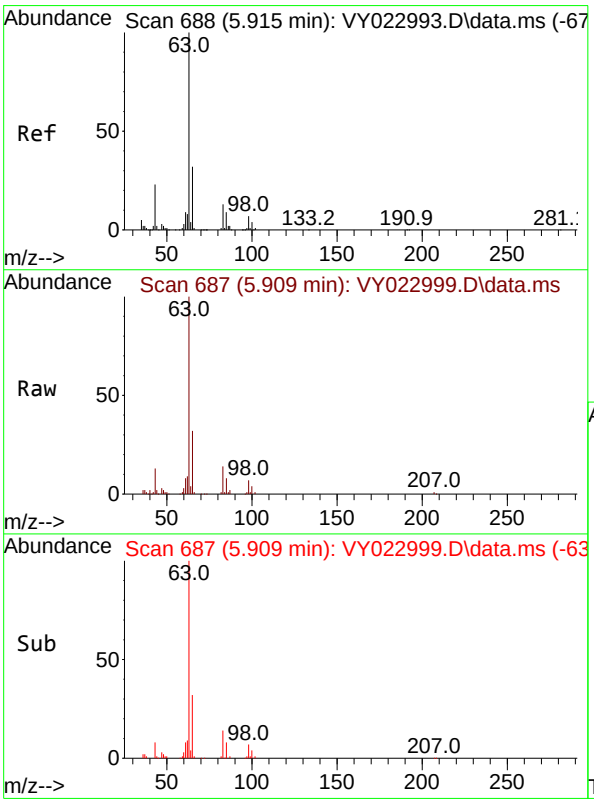
Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

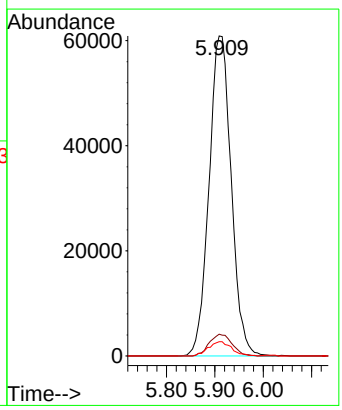


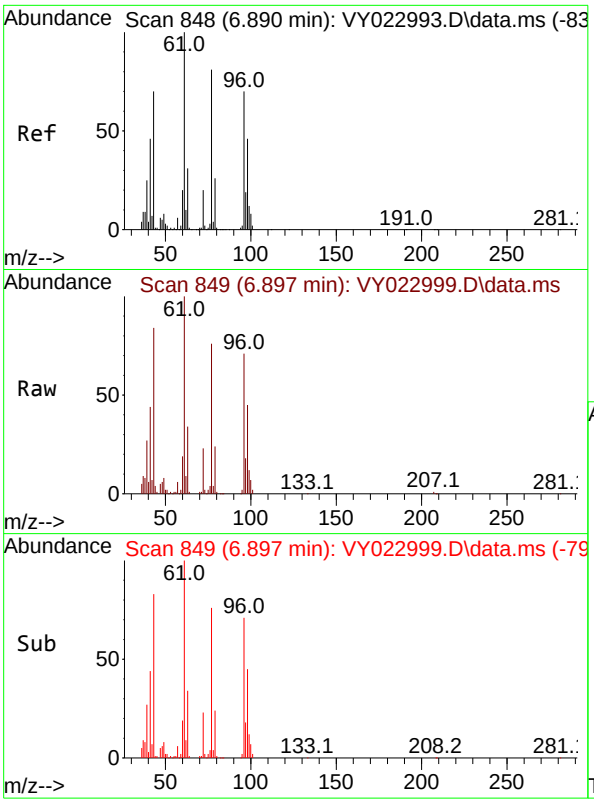


#24
1,1-Dichloroethane
Concen: 20.598 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 63 Resp: 193829

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.5
100	4.4	2.1	6.2





#25
2-Butanone
Concen: 106.806 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

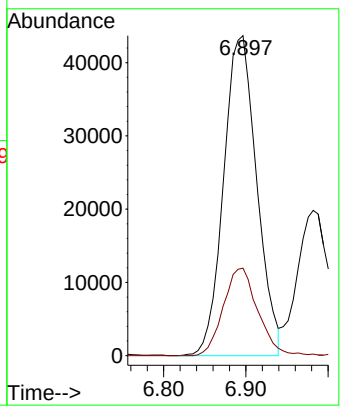
Tgt Ion: 43 Resp: 12265

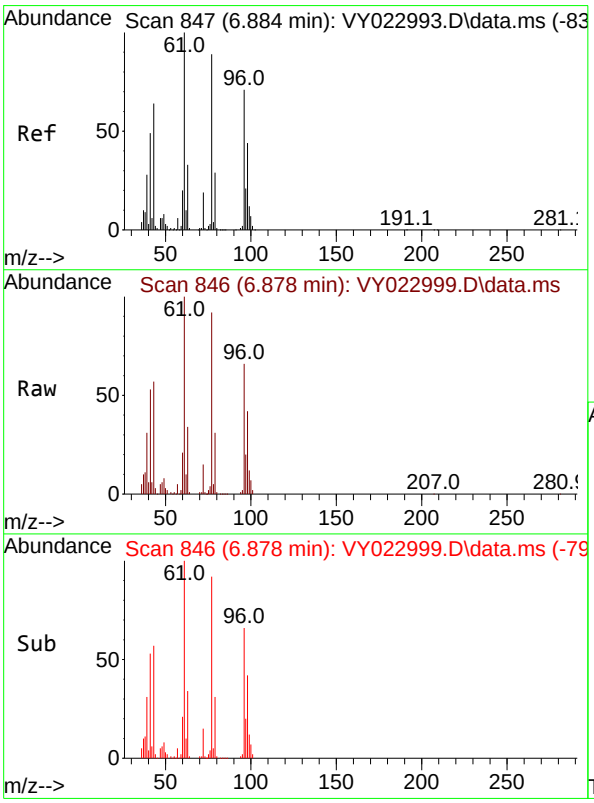
Ion	Ratio	Lower	Upper
43	100		
72	27.4	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

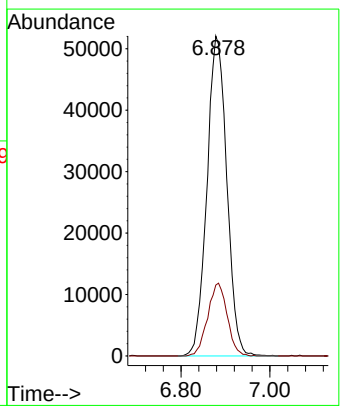


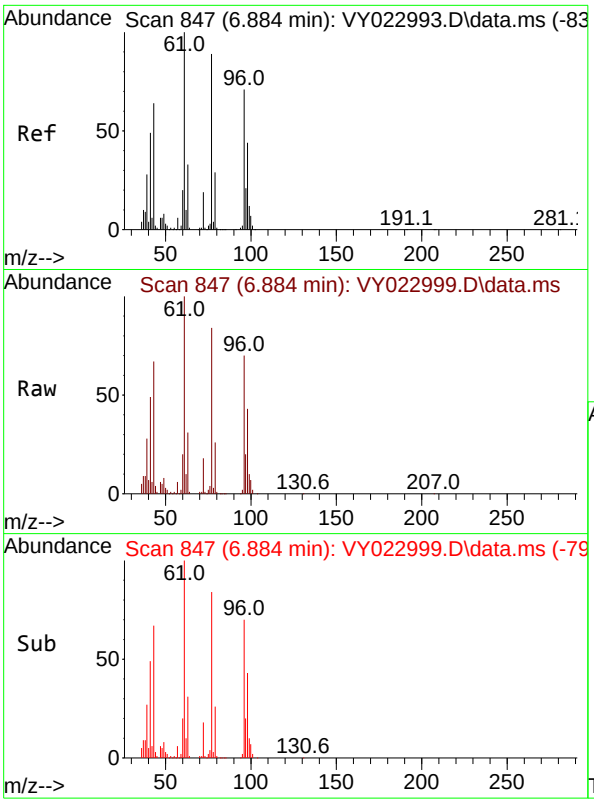


#26
2,2-Dichloropropane
Concen: 19.596 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 77 Resp: 161606

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 20.062 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

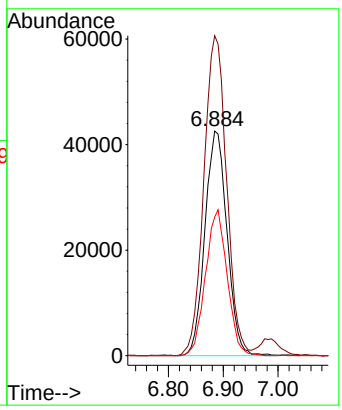
Tgt Ion: 96 Resp: 11930

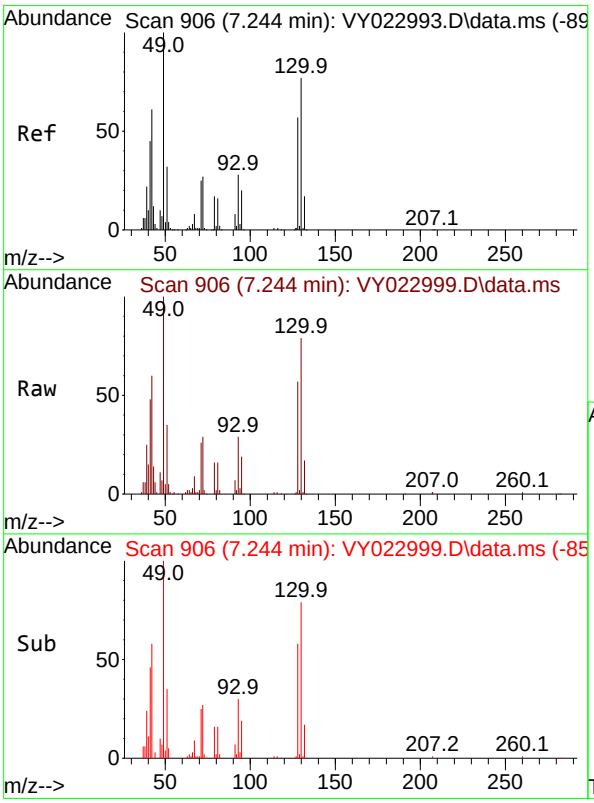
Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	286.2
98	63.7	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

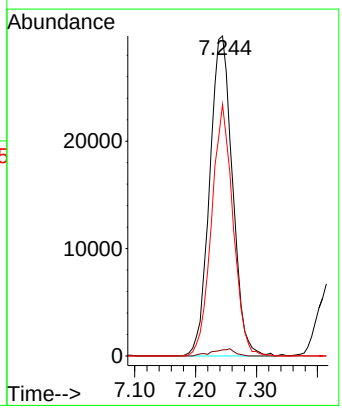


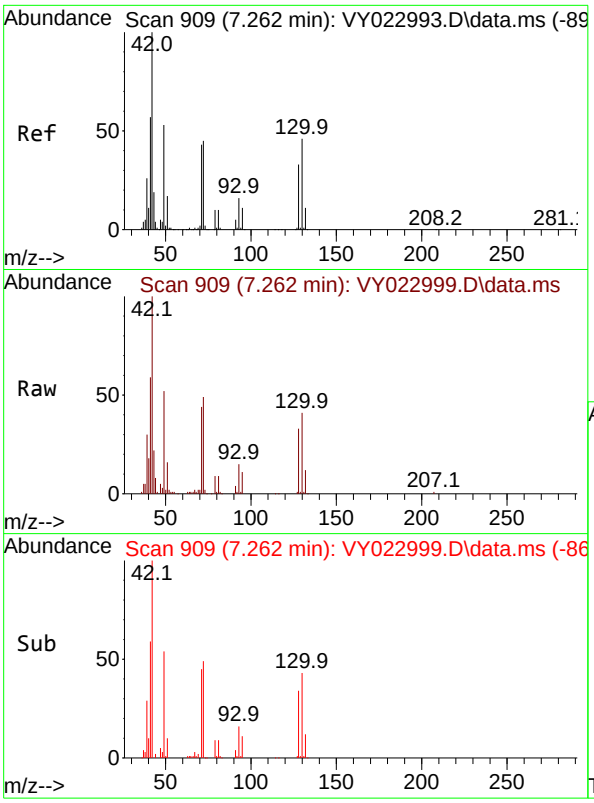


#28
Bromochloromethane
Concen: 21.243 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 49 Resp: 77532

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	73.8	61.8	92.8





#29
Tetrahydrofuran
Concen: 105.194 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

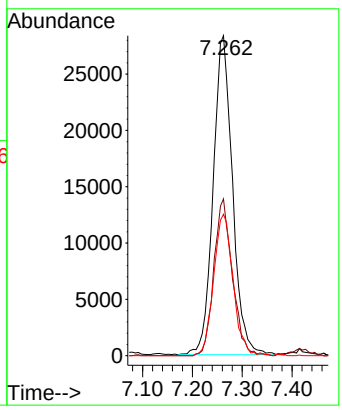
Tgt Ion: 42 Resp: 7648

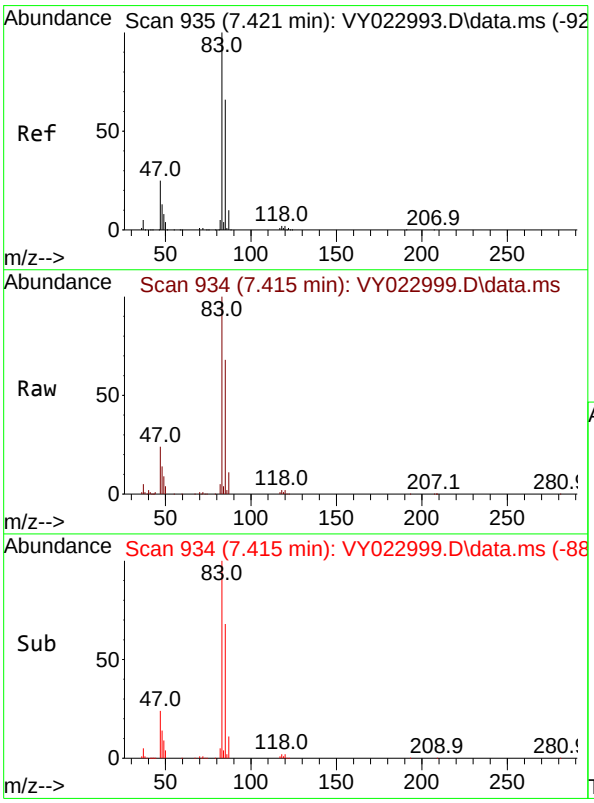
Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.5	56.3
71	44.5	34.2	51.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

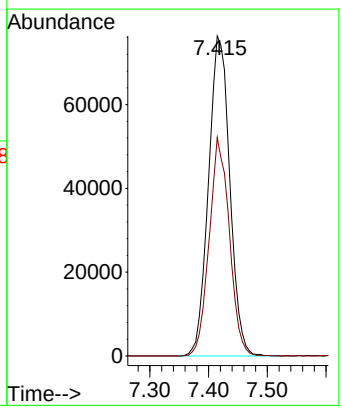


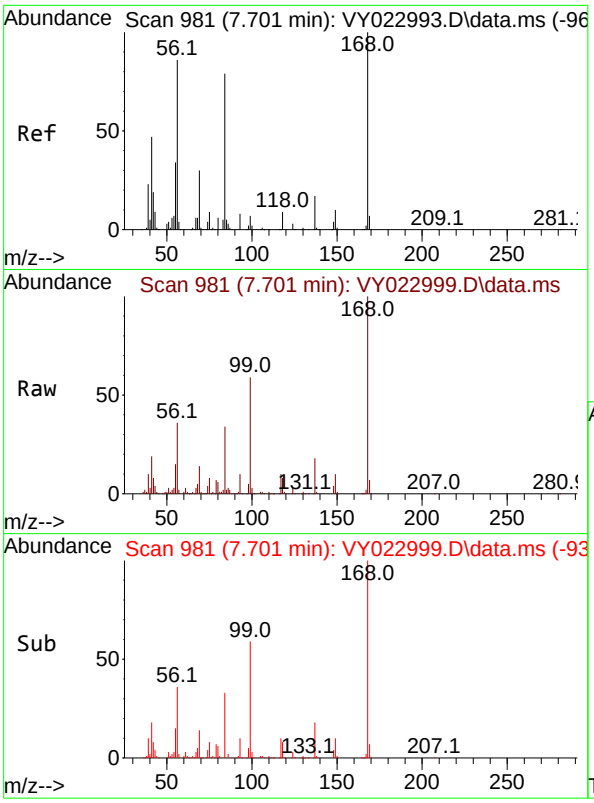


#30
Chloroform
Concen: 20.217 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 83 Resp: 191909

Ion	Ratio	Lower	Upper
83	100		
85	68.2	52.6	78.8





#31
Cyclohexane
Concen: 19.843 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

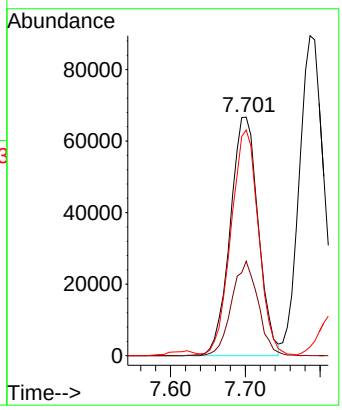
Tgt Ion: 56 Resp: 17447

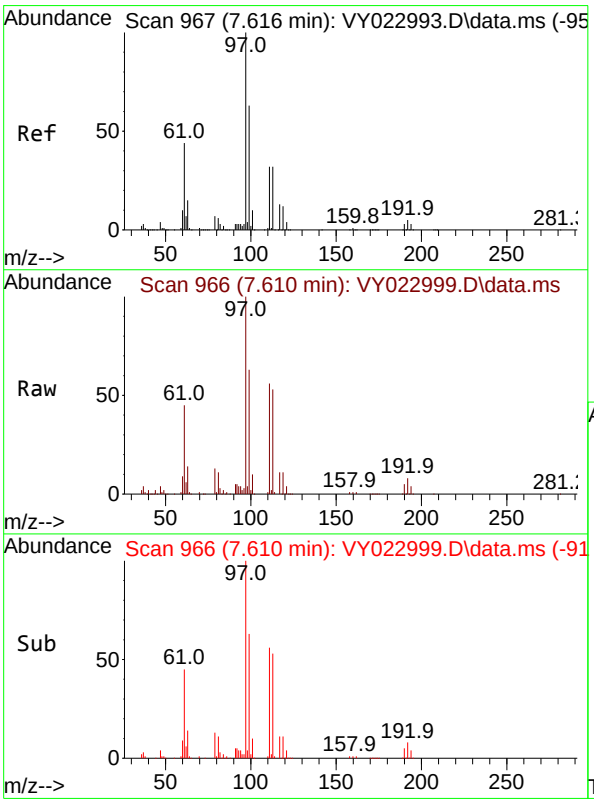
Ion	Ratio	Lower	Upper
56	100		
69	39.6	28.1	42.1
84	93.0	73.5	110.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

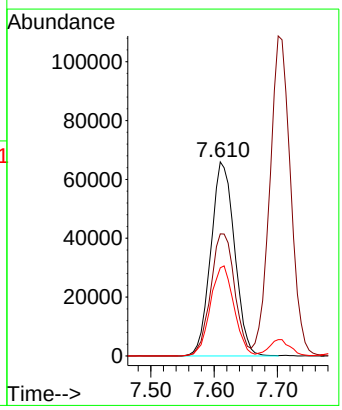


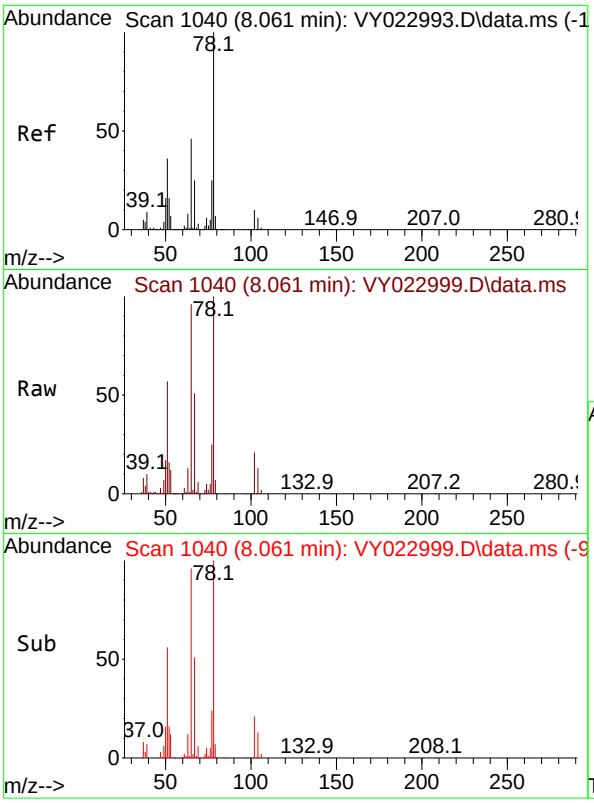


#32
1,1,1-Trichloroethane
Concen: 19.924 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 97 Resp: 171608

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	46.3	36.1	54.1





#33
1,2-Dichloroethane-d4
Concen: 50.315 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

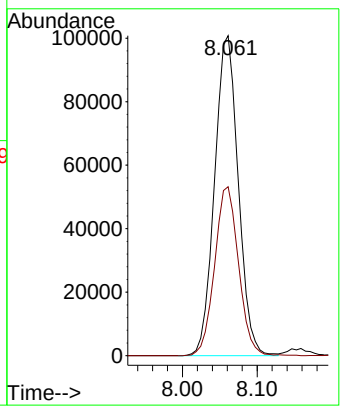
Tgt Ion: 65 Resp: 22218

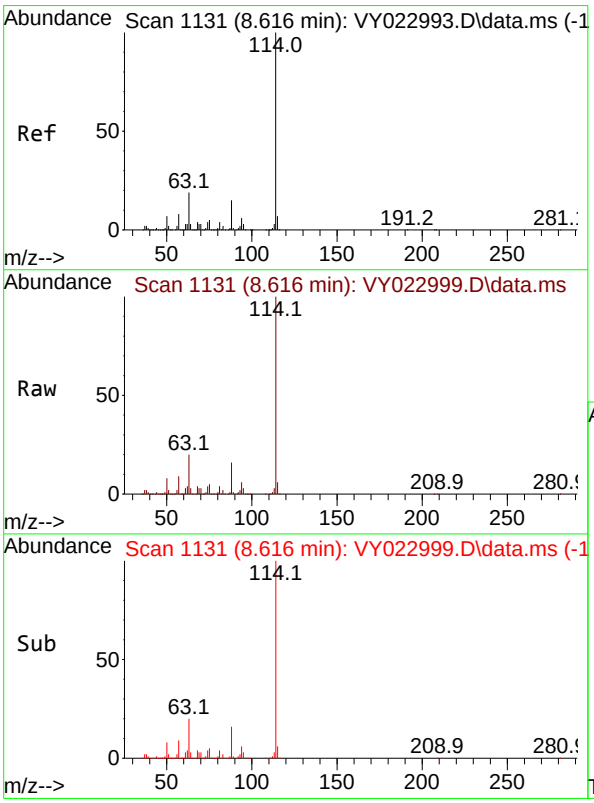
Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

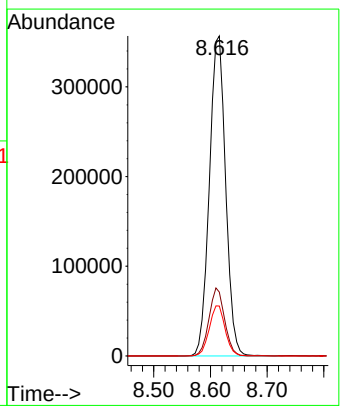


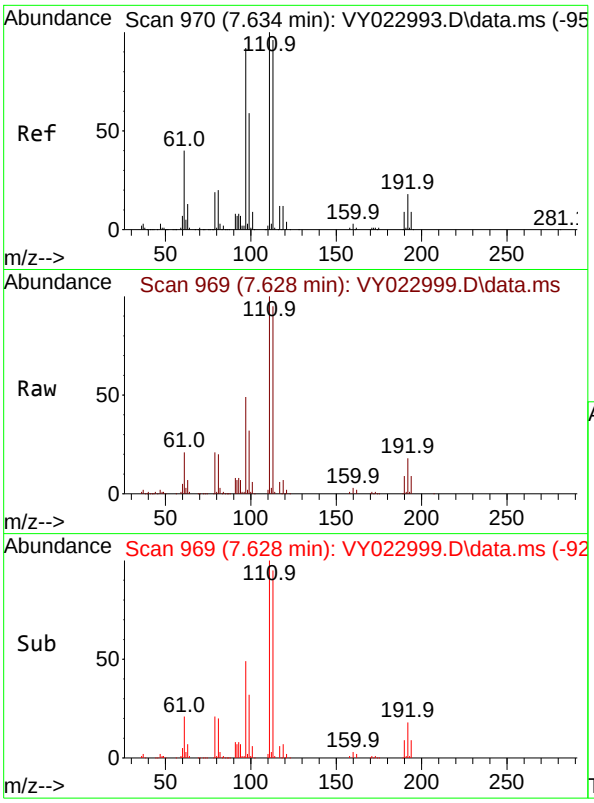


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:114 Resp: 709471

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	38.8
88	15.6	0.0	30.2





#35
Dibromofluoromethane
Concen: 48.271 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

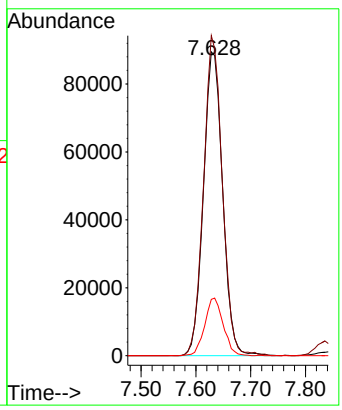
Tgt Ion:113 Resp: 21723

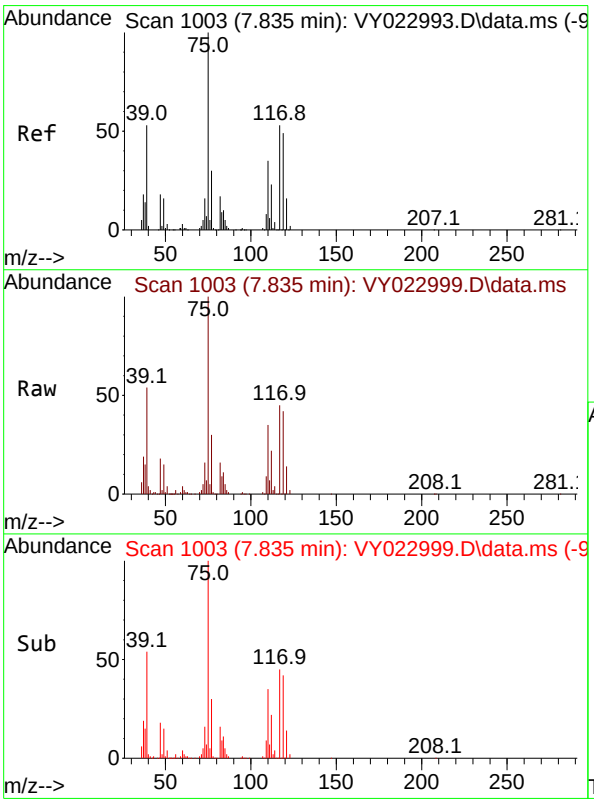
Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.2	124.8
192	18.3	15.3	22.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

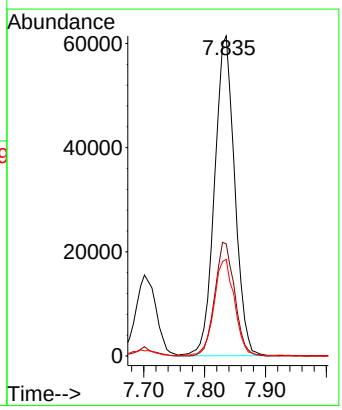


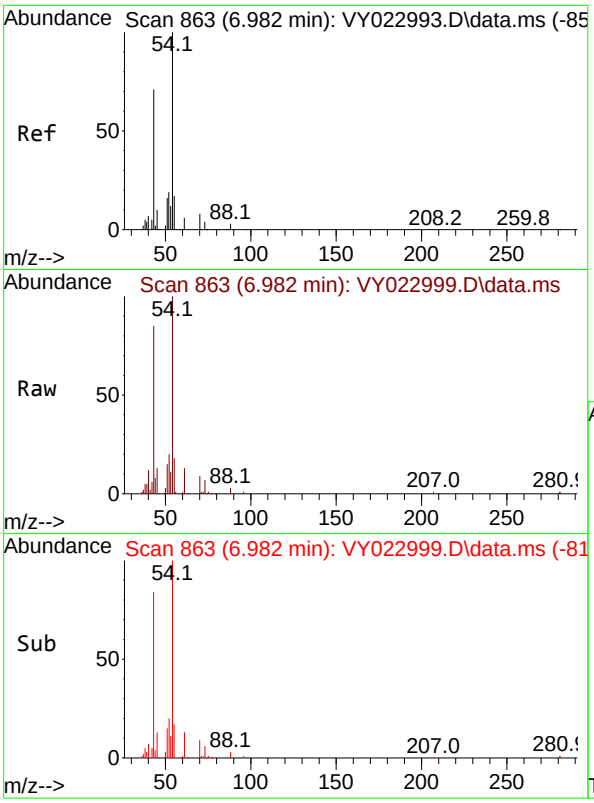


#36
1,1-Dichloropropene
Concen: 19.887 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 140975

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.3	51.9
77	30.9	24.6	37.0





#37
Ethyl Acetate
Concen: 20.649 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

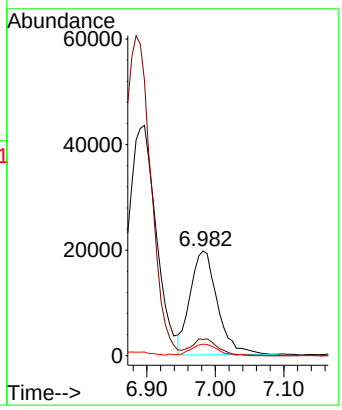
Tgt Ion: 43 Resp: 5436

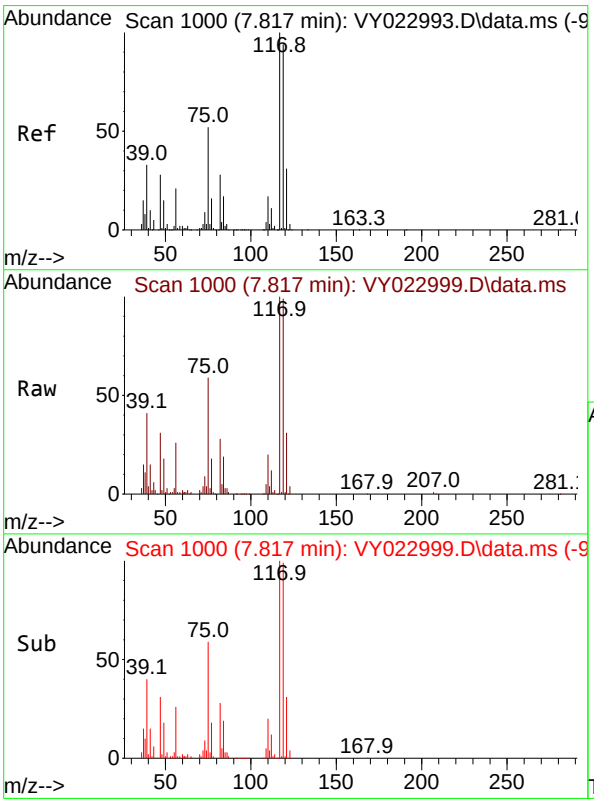
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.6	17.4
70	11.4	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

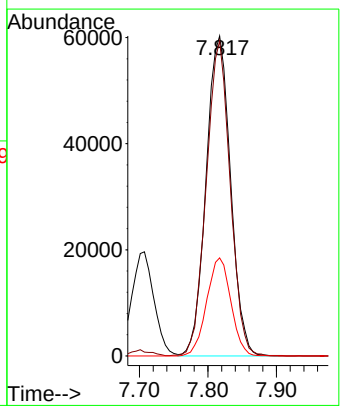


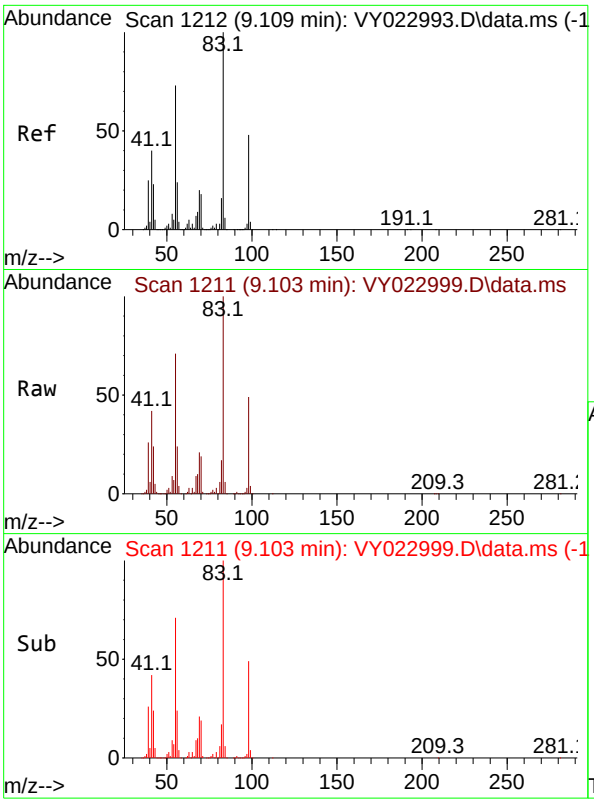


#38
Carbon Tetrachloride
Concen: 19.461 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:117 Resp: 149882

Ion	Ratio	Lower	Upper
117	100		
119	98.4	74.9	112.3
121	30.7	24.6	37.0





#39
Methylcyclohexane
Concen: 19.480 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

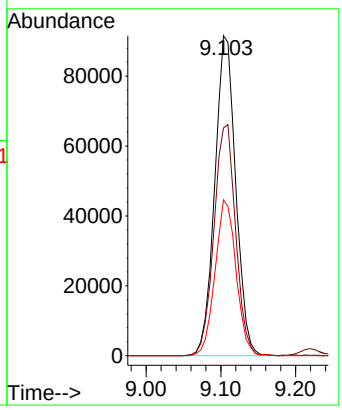
Tgt Ion: 83 Resp: 17873

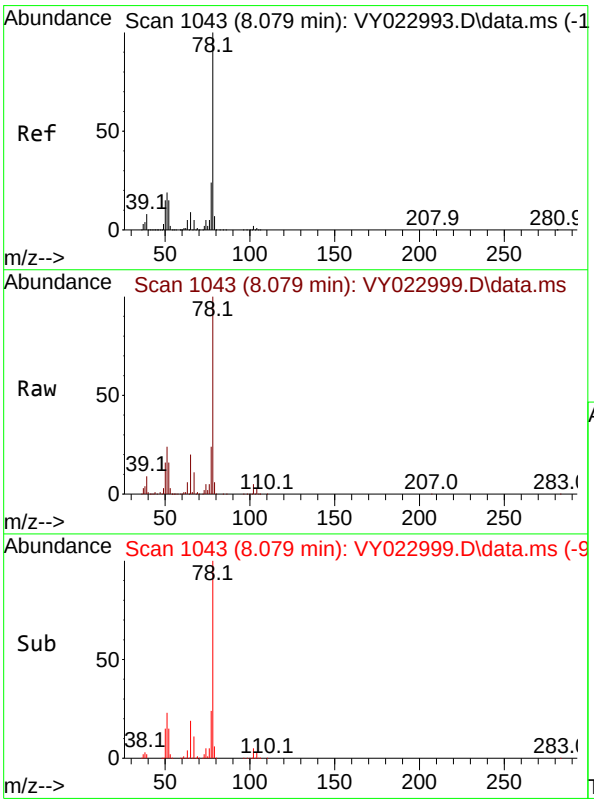
Ion	Ratio	Lower	Upper
83	100		
55	71.1	58.1	87.1
98	48.7	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

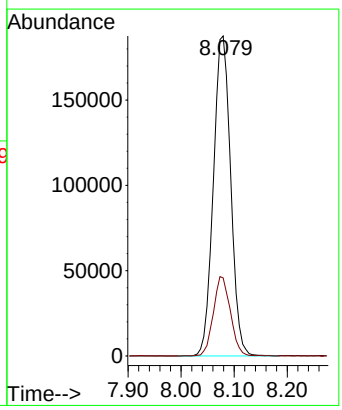


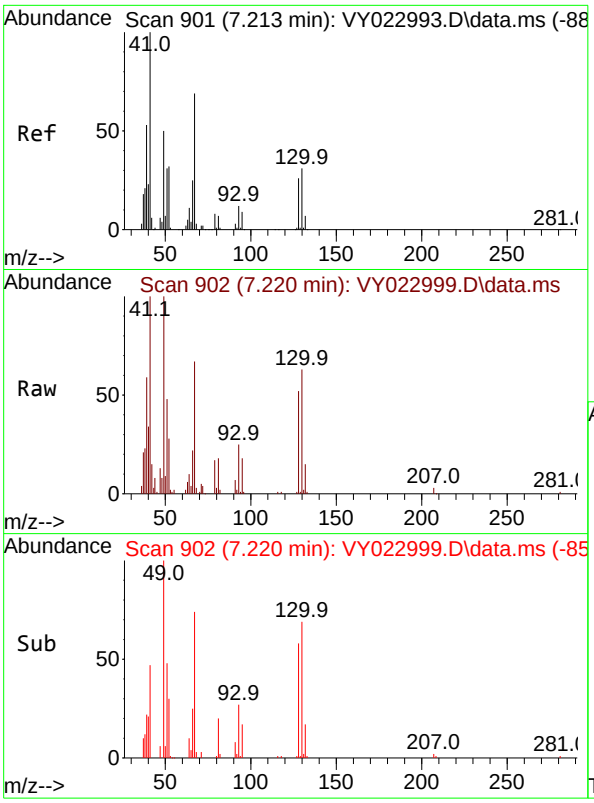


#40
Benzene
Concen: 19.939 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 78 Resp: 425586

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4

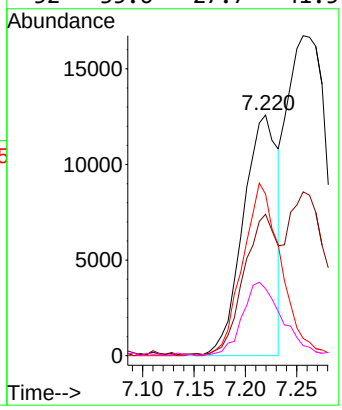




#41
Methacrylonitrile
Concen: 20.434 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 41 Resp: 2930

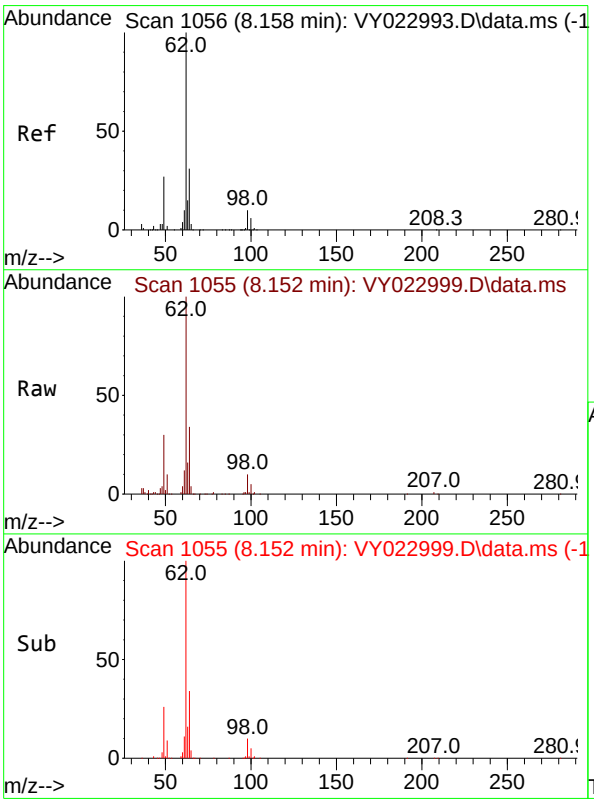
Ion	Ratio	Lower	Upper
41	100		
39	55.6	50.0	75.0
67	80.7	65.4	98.2
52	35.6	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

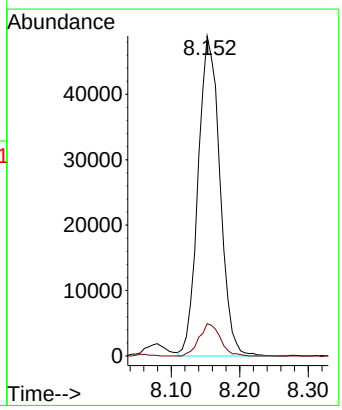
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

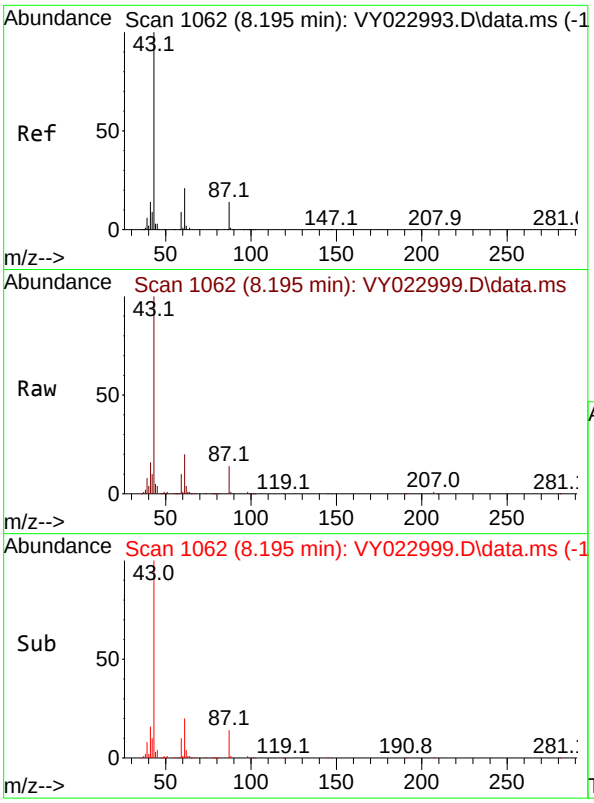


#42
1,2-Dichloroethane
Concen: 20.404 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 62 Resp: 108352

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0

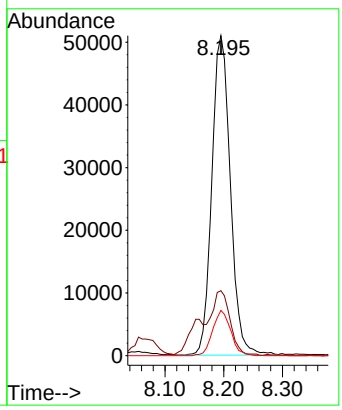




#43
Isopropyl Acetate
Concen: 21.370 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 11175(

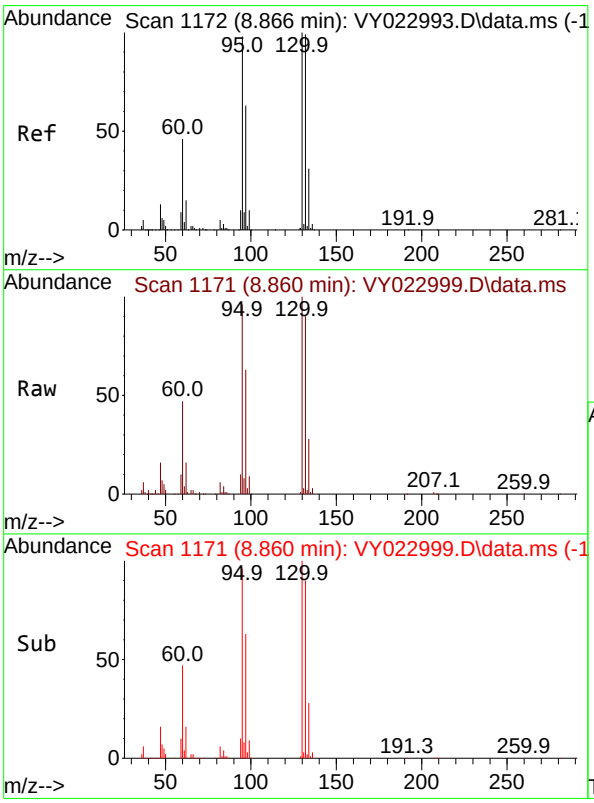
Ion	Ratio	Lower	Upper
43	100		
61	19.8	25.0	37.4#
87	13.8	11.1	16.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

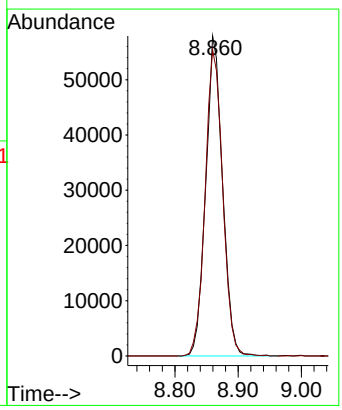
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

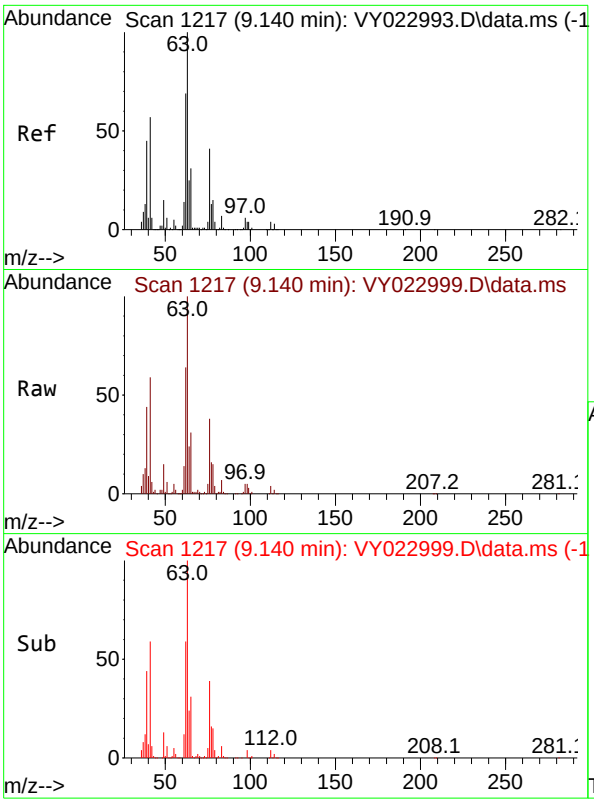


#44
Trichloroethene
Concen: 19.555 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:130 Resp: 107207

Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	195.8





#45
1,2-Dichloropropane
Concen: 19.657 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

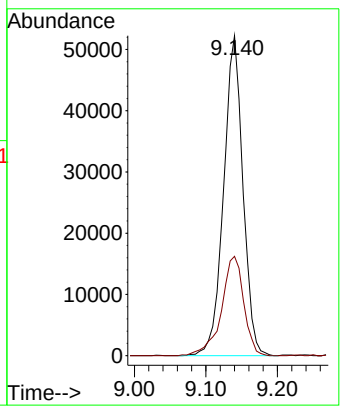
Tgt Ion: 63 Resp: 9797

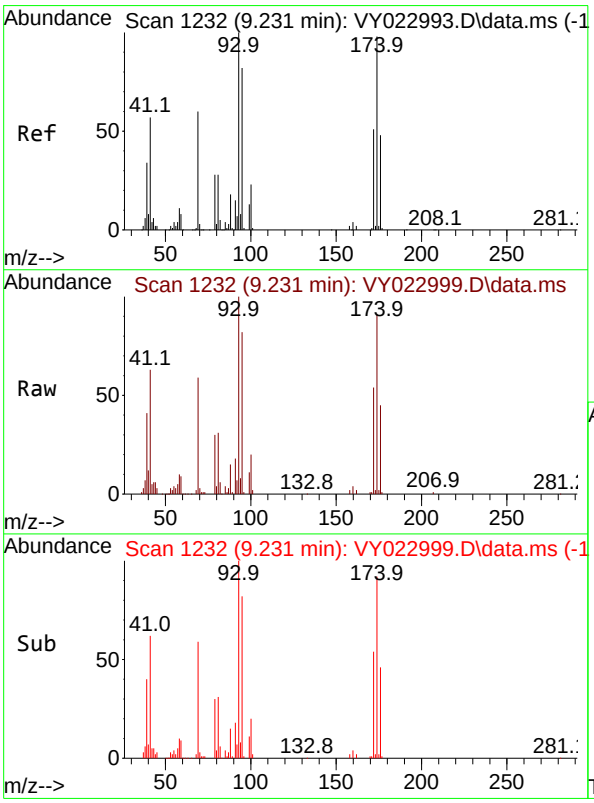
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

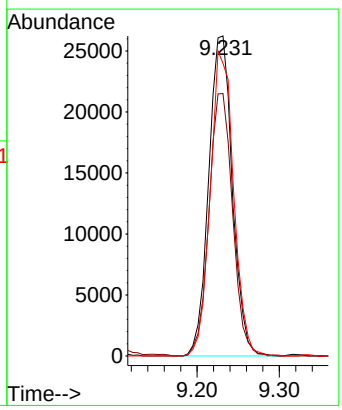


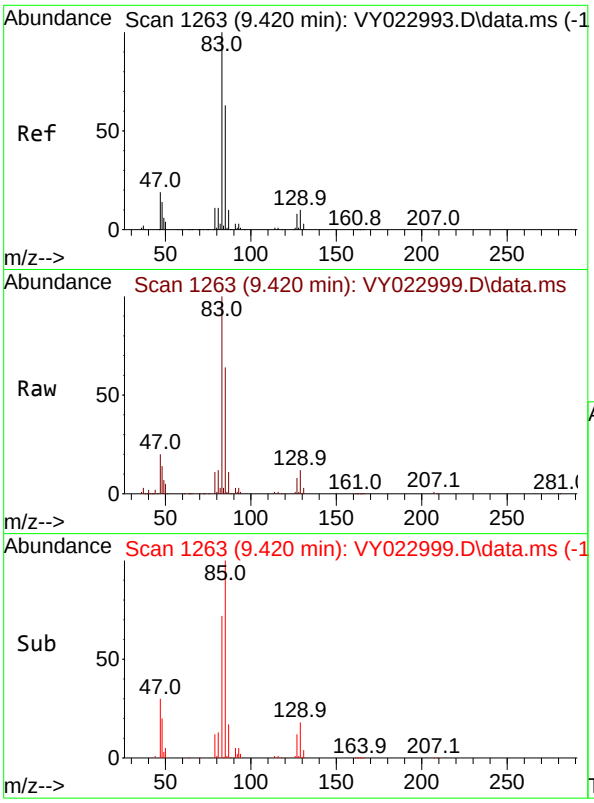


#46
Dibromomethane
Concen: 20.337 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 93 Resp: 52396

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.9	98.9
174	94.1	76.4	114.6

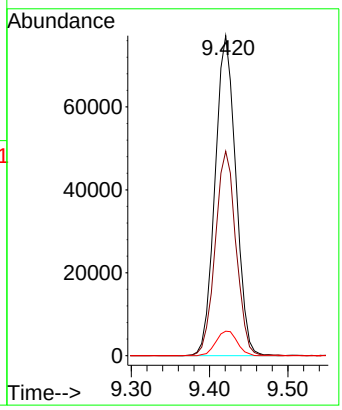




#47
Bromodichloromethane
Concen: 19.991 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 83 Resp: 14236

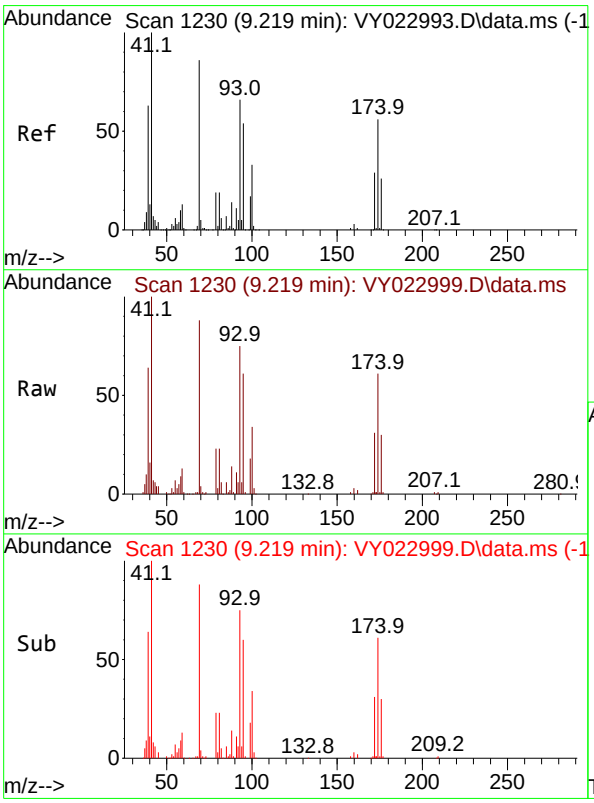
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.6	75.8
127	7.7	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

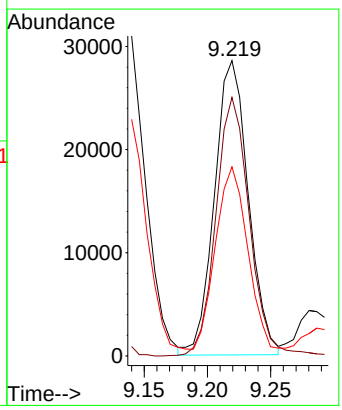
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

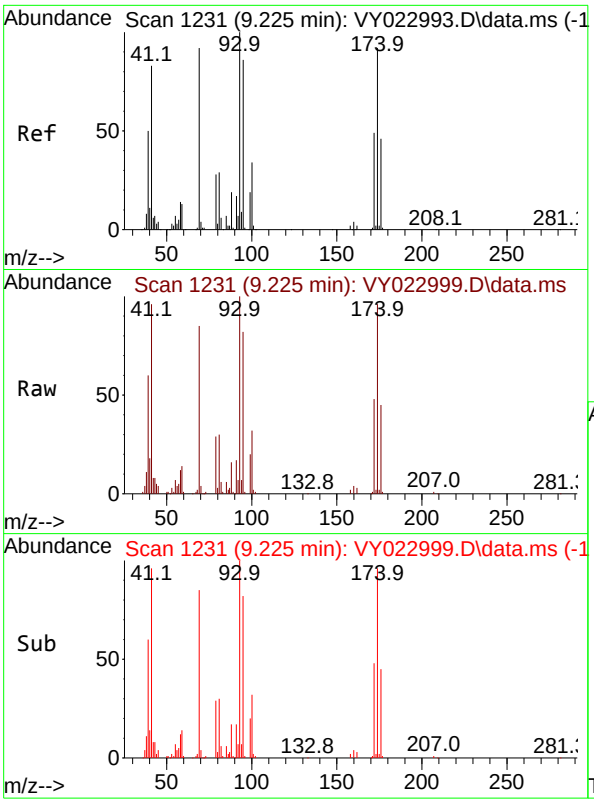


#48
Methyl methacrylate
Concen: 21.043 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 41 Resp: 53129

Ion	Ratio	Lower	Upper
41	100		
69	87.6	71.4	107.0
39	58.9	47.8	71.8





#49
1,4-Dioxane
Concen: 401.070 ug/l m
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

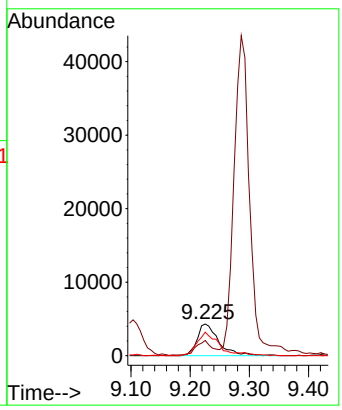
Tgt Ion: 88 Resp: 1089

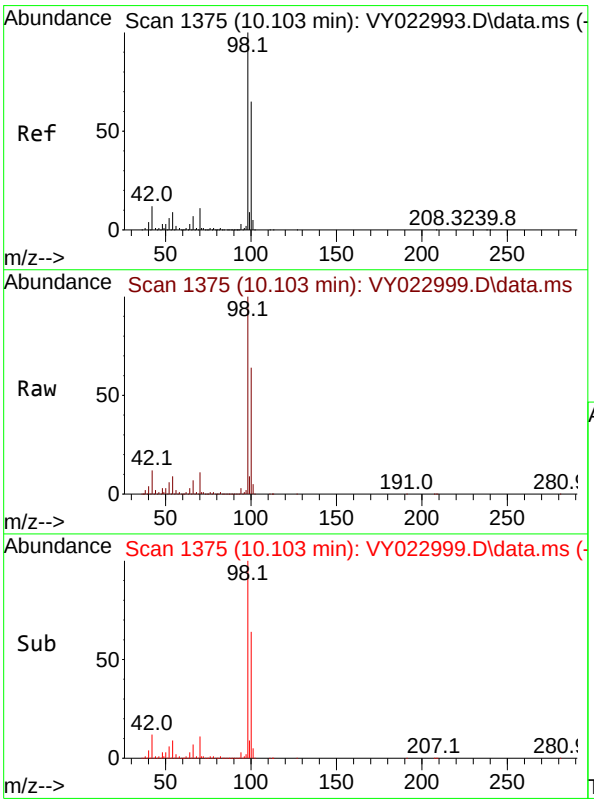
Ion	Ratio	Lower	Upper
88	100		
43	34.2	28.7	43.1
58	69.5	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

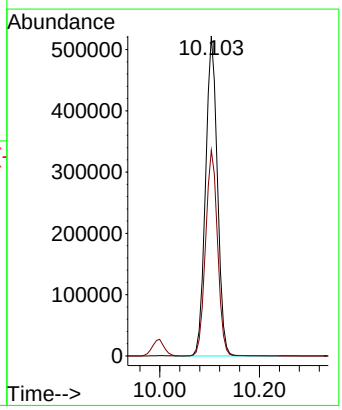


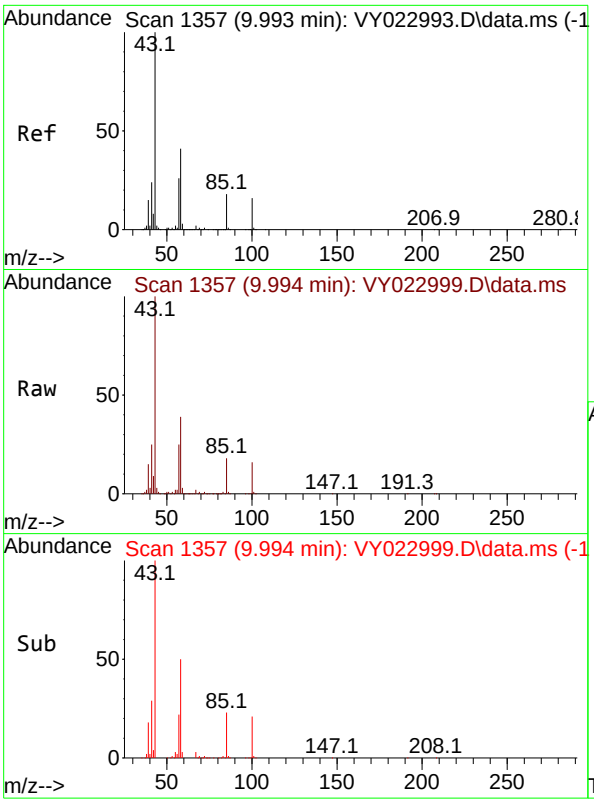


#50
Toluene-d8
Concen: 48.217 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 98 Resp: 860531

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

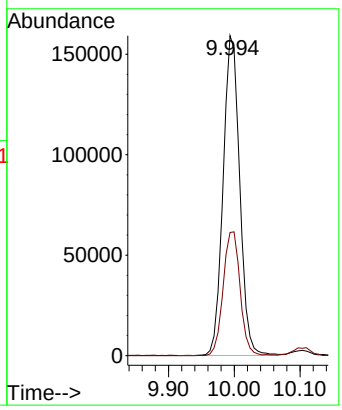




#51
4-Methyl-2-Pentanone
Concen: 105.379 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 27972

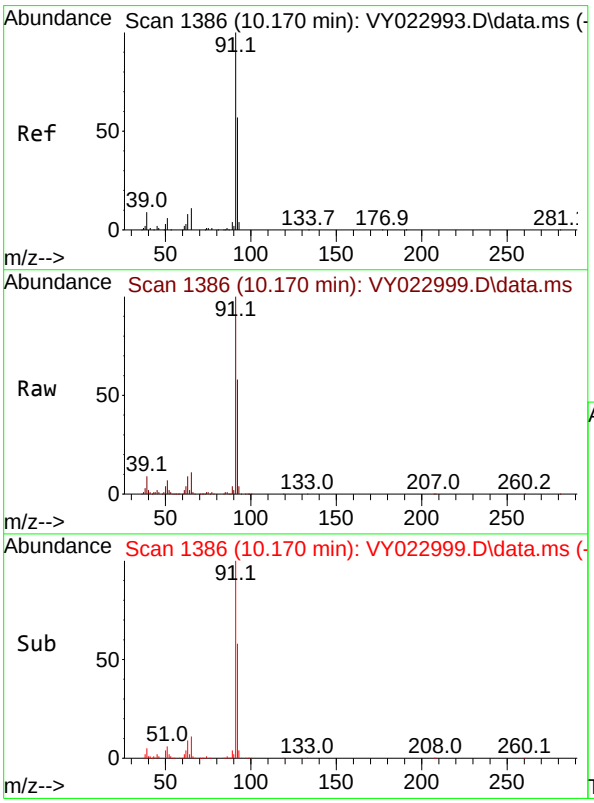
Ion	Ratio	Lower	Upper
43	100		
58	39.9	32.5	48.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

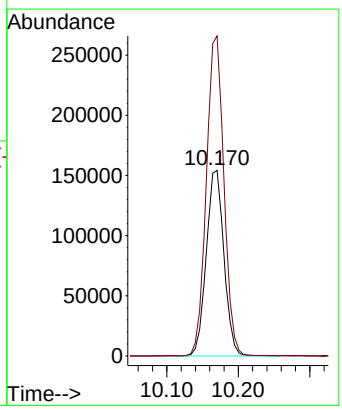
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

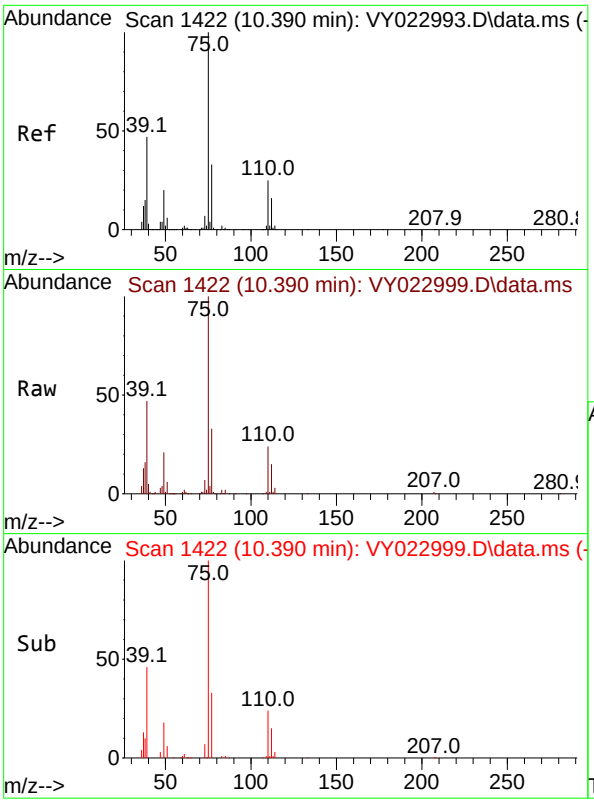


#52
Toluene
Concen: 19.888 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 92 Resp: 263920

Ion	Ratio	Lower	Upper
92	100		
91	171.7	137.8	206.6





#53
t-1,3-Dichloropropene
Concen: 19.545 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

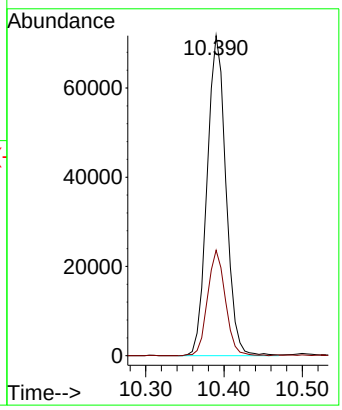
Tgt Ion: 75 Resp: 11948

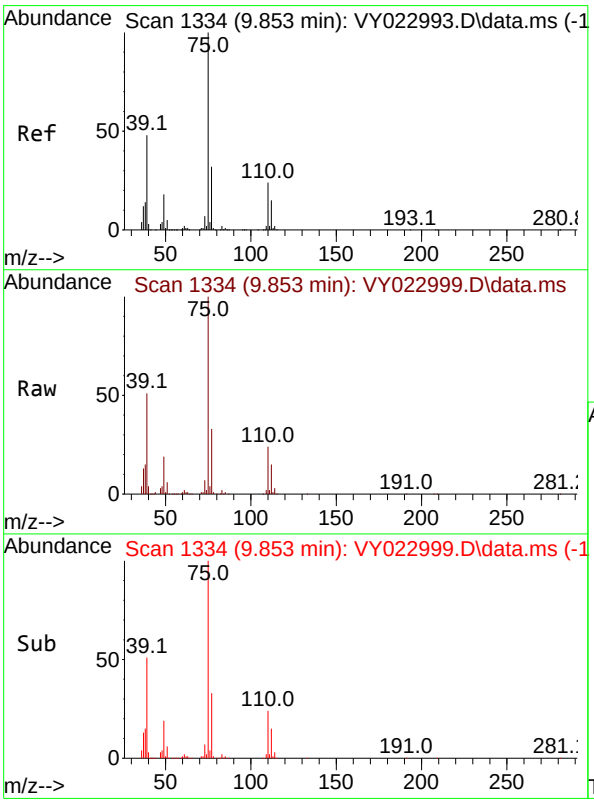
Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.4	39.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

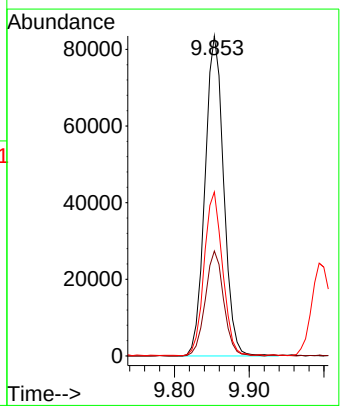


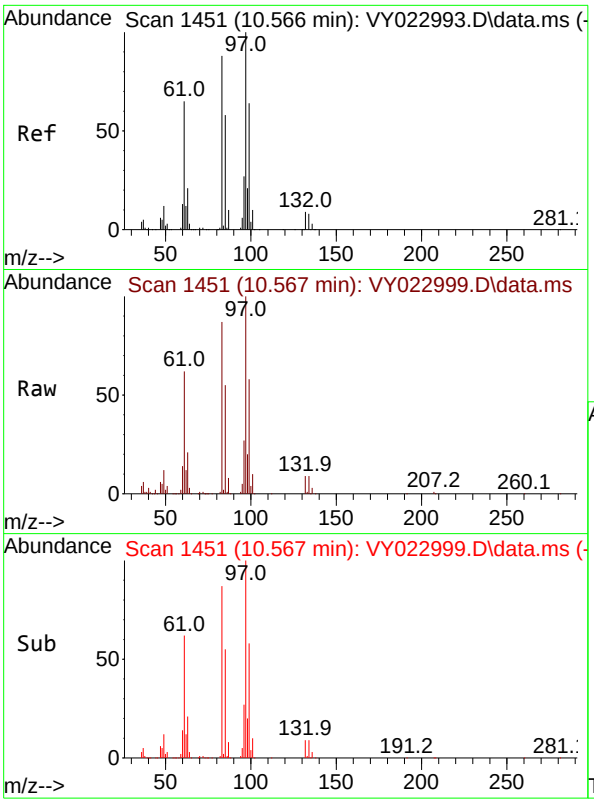


#54
cis-1,3-Dichloropropene
Concen: 19.663 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 144882

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.4	38.0
39	51.1	38.2	57.2

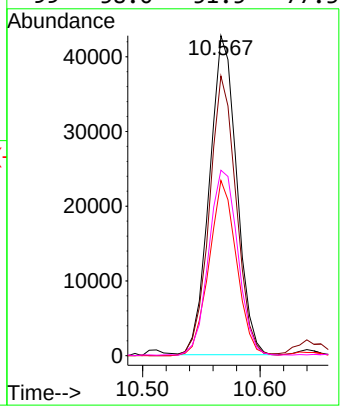




#55
1,1,2-Trichloroethane
Concen: 20.313 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 97 Resp: 6878

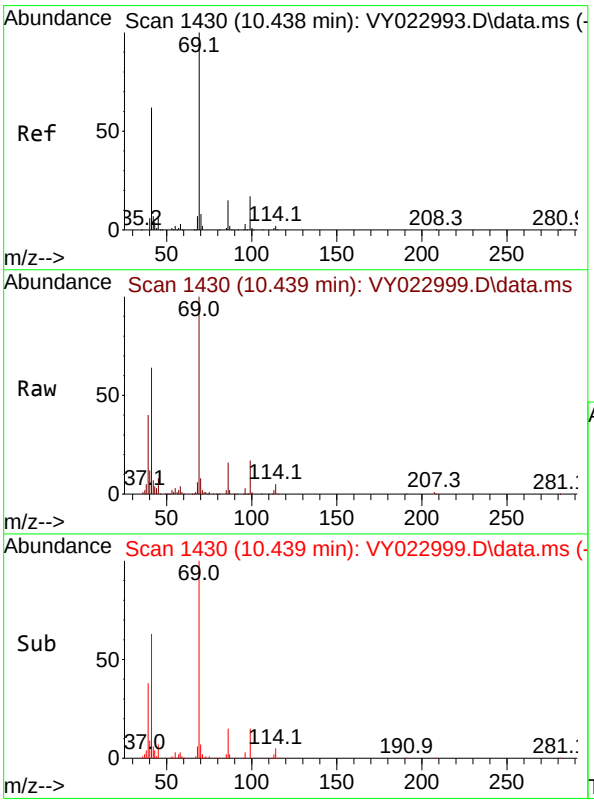
Ion	Ratio	Lower	Upper
97	100		
83	87.4	70.2	105.2
85	54.8	46.2	69.2
99	58.0	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

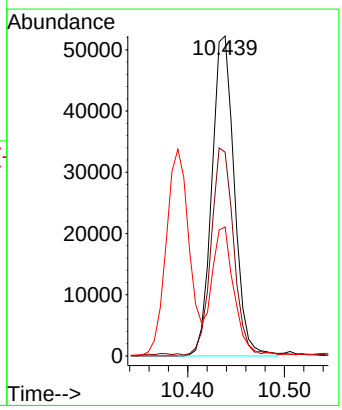
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

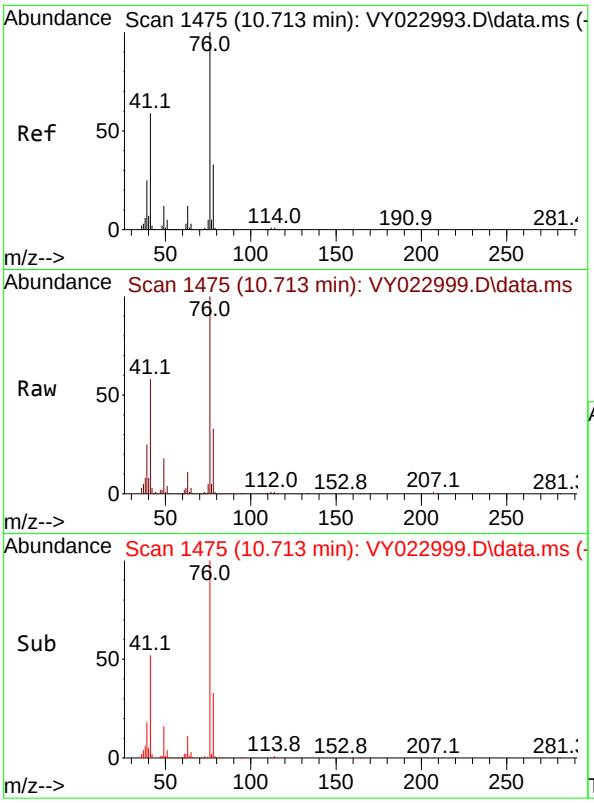


#56
Ethyl methacrylate
Concen: 19.906 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 69 Resp: 84145

Ion	Ratio	Lower	Upper
69	100		
41	65.1	51.0	76.4
39	39.5	30.6	46.0

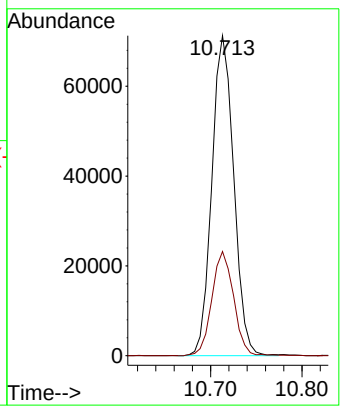




#57
1,3-Dichloropropane
Concen: 20.264 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 76 Resp: 11853

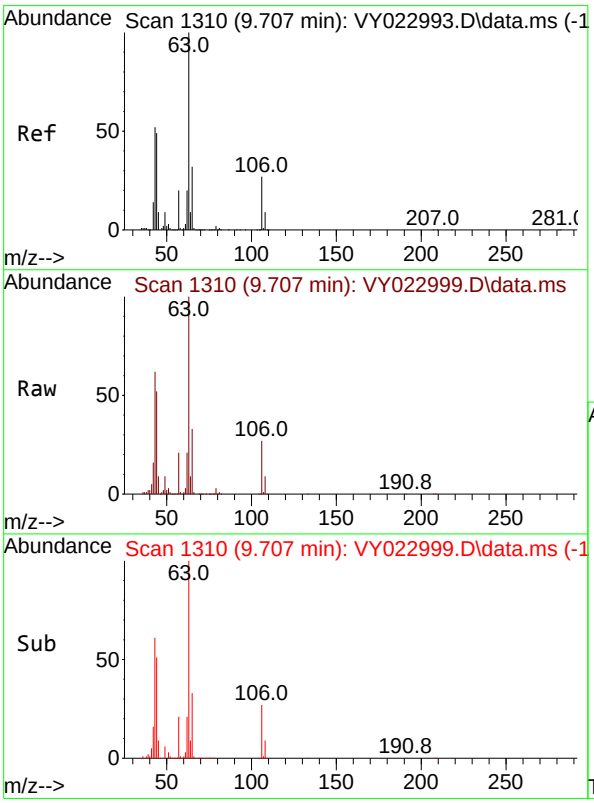
Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

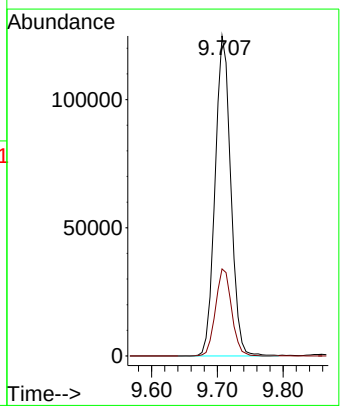
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

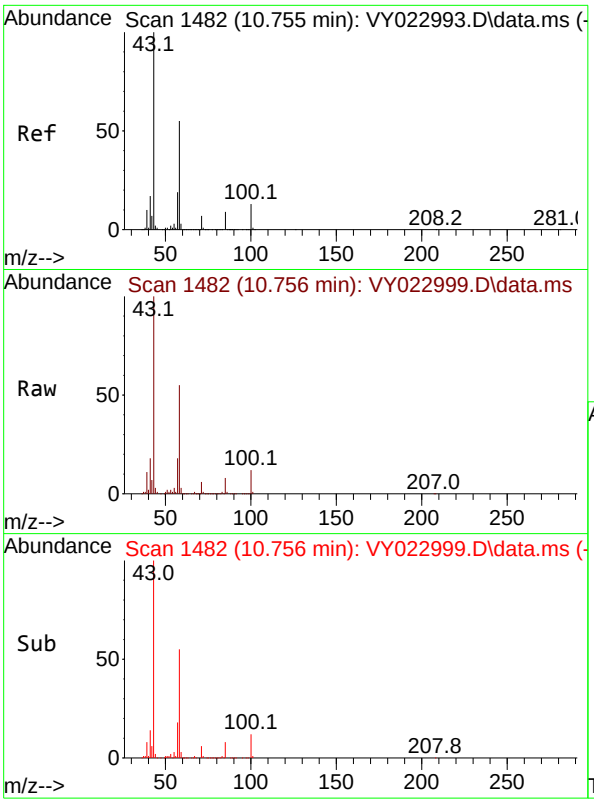


#58
2-Chloroethyl Vinyl ether
Concen: 100.158 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 63 Resp: 207251

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.6	33.8





#59
2-Hexanone
Concen: 104.630 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

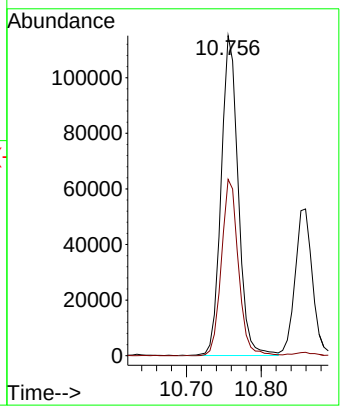
Tgt Ion: 43 Resp: 18255

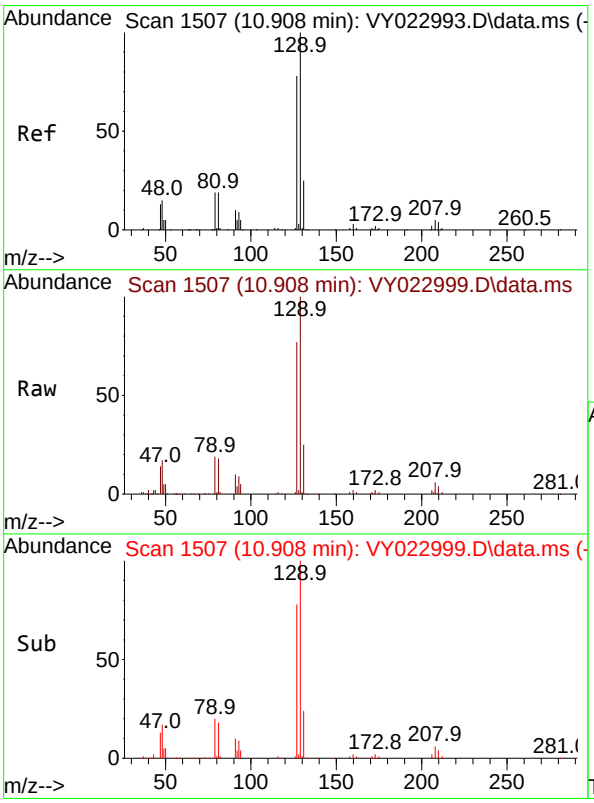
Ion	Ratio	Lower	Upper
43	100		
58	54.8	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

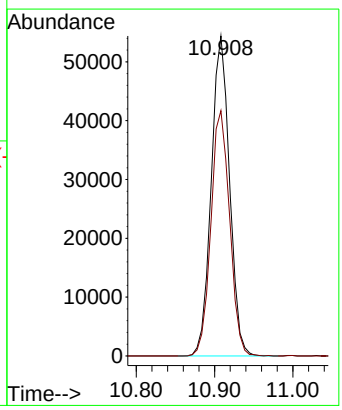


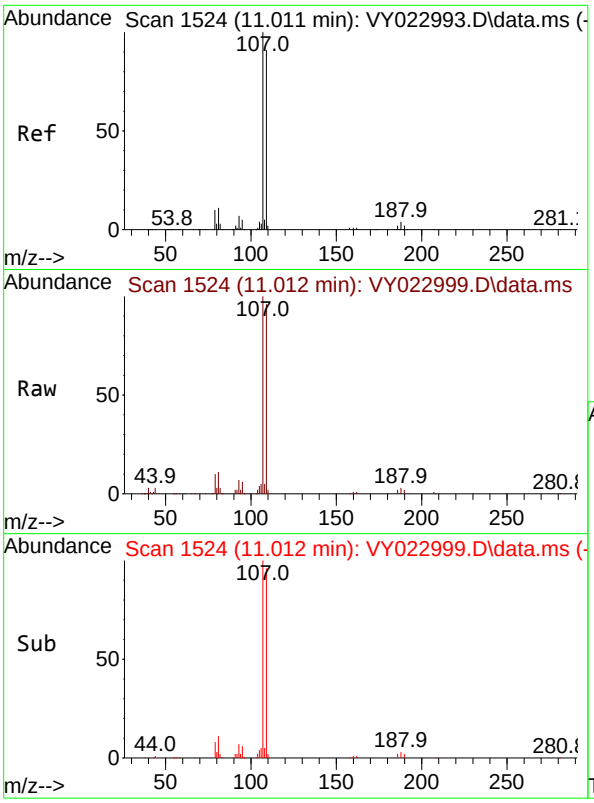


#60
Dibromochloromethane
Concen: 19.911 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:129 Resp: 88291

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.7	116.1





#61
1,2-Dibromoethane
Concen: 20.010 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

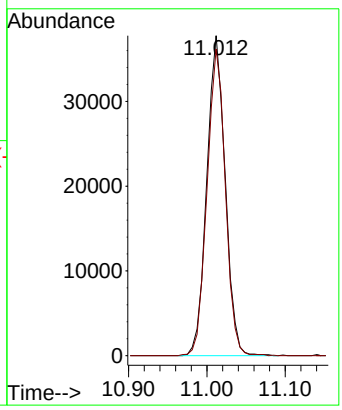
Tgt Ion:107 Resp: 6153

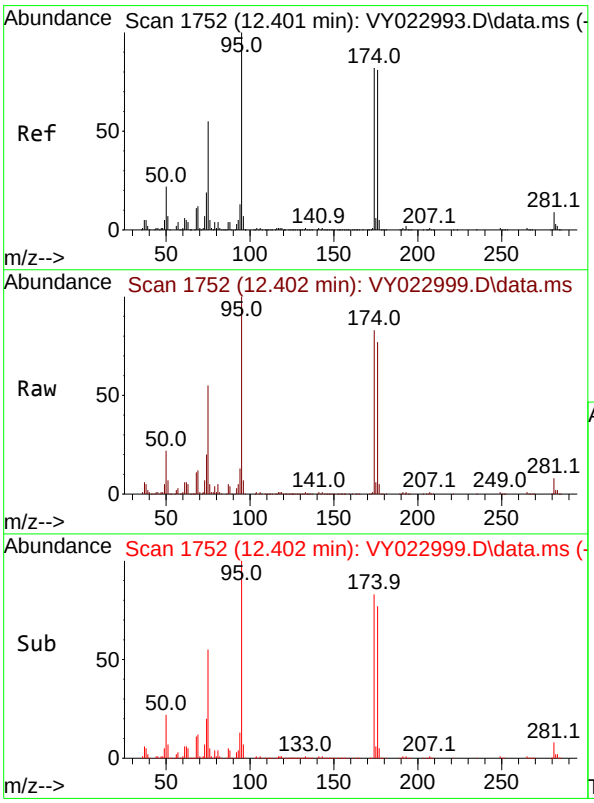
Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.1	112.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

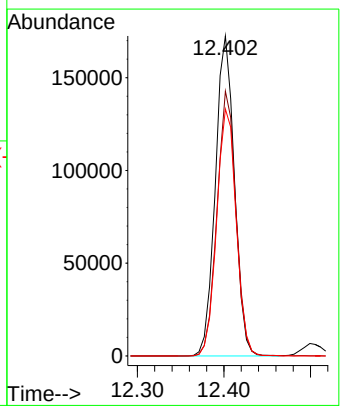


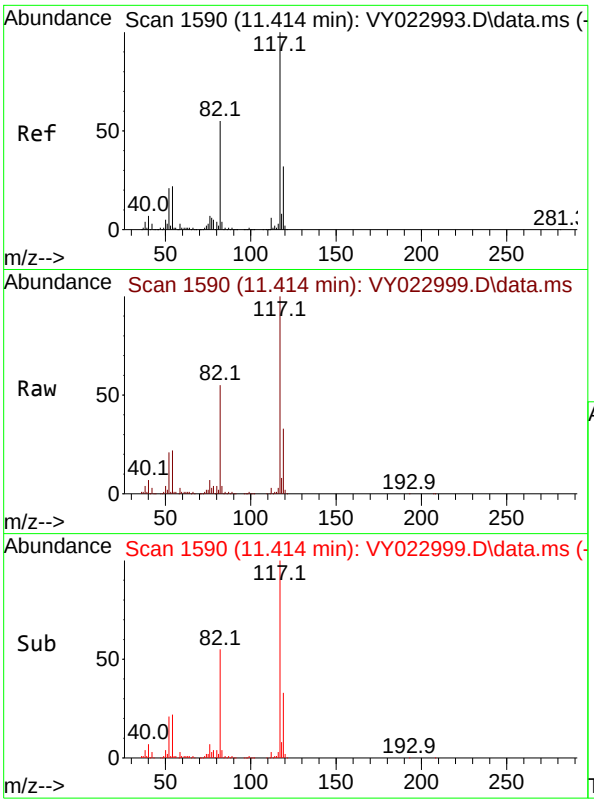


#62
4-Bromofluorobenzene
Concen: 46.955 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 95 Resp: 263791

Ion	Ratio	Lower	Upper
95	100		
174	82.4	0.0	170.8
176	78.8	0.0	163.6

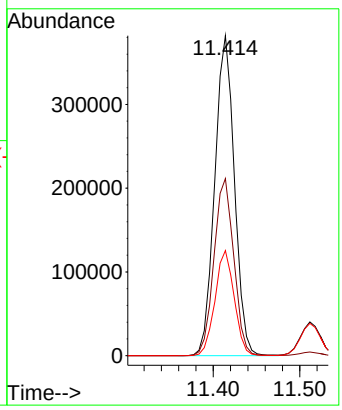




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:117 Resp: 60280

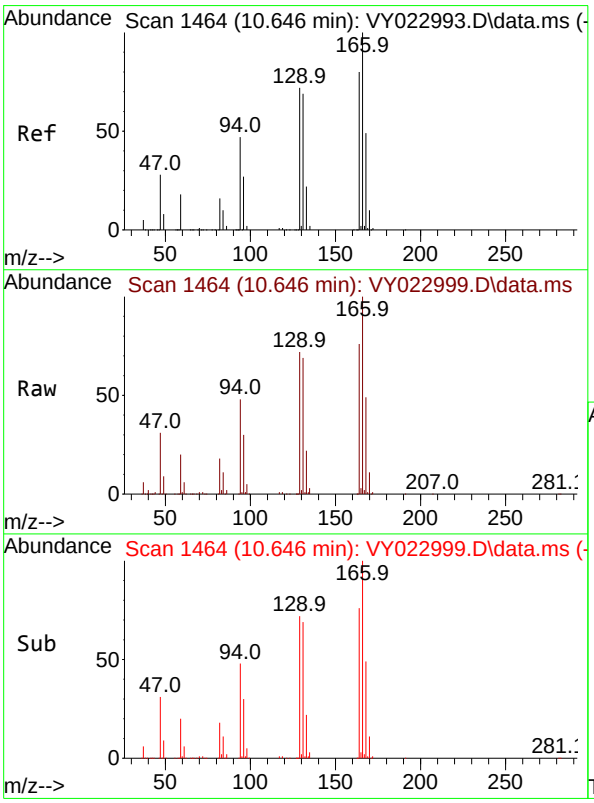
Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.3	66.5
119	32.8	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

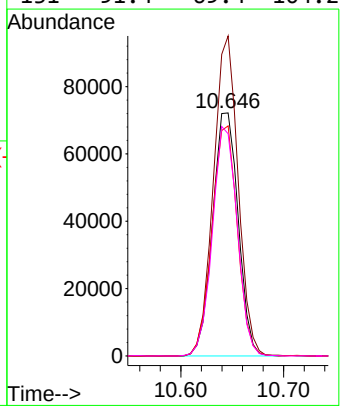
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

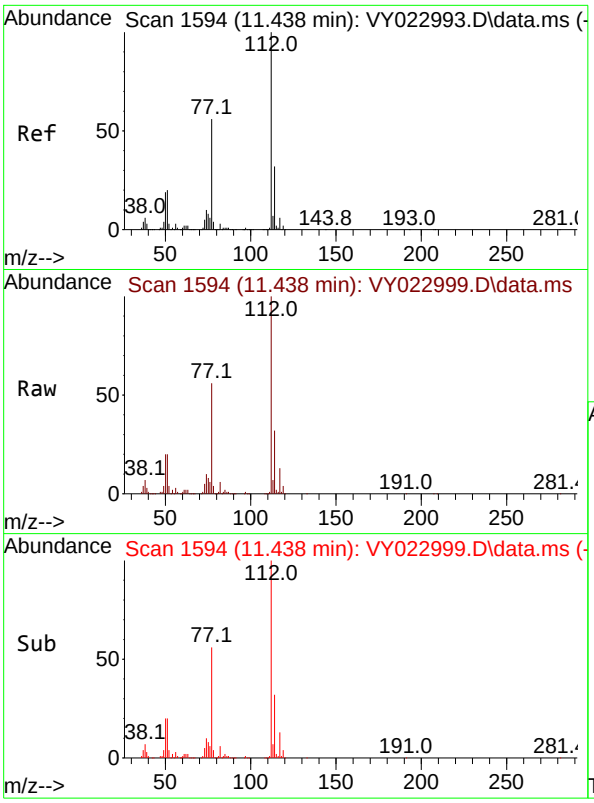


#64
Tetrachloroethene
Concen: 20.315 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:164 Resp: 125172

Ion	Ratio	Lower	Upper
164	100		
166	131.6	100.2	150.2
129	94.6	71.7	107.5
131	91.4	69.4	104.2

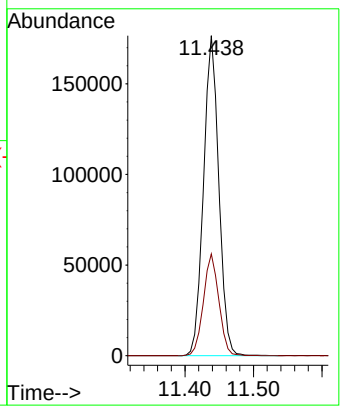




#65
Chlorobenzene
Concen: 19.277 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:112 Resp: 27421

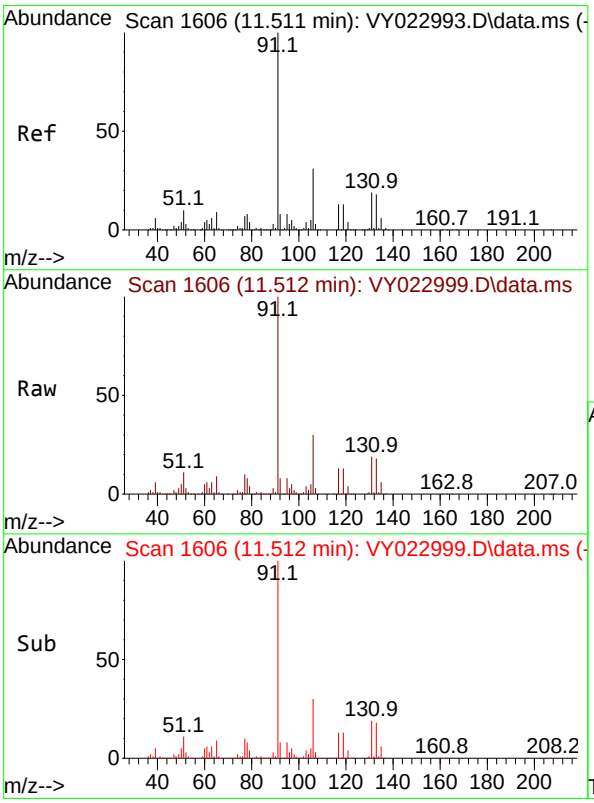
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

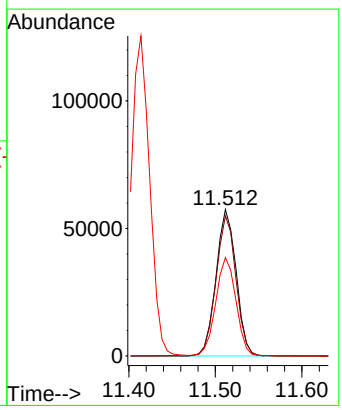
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

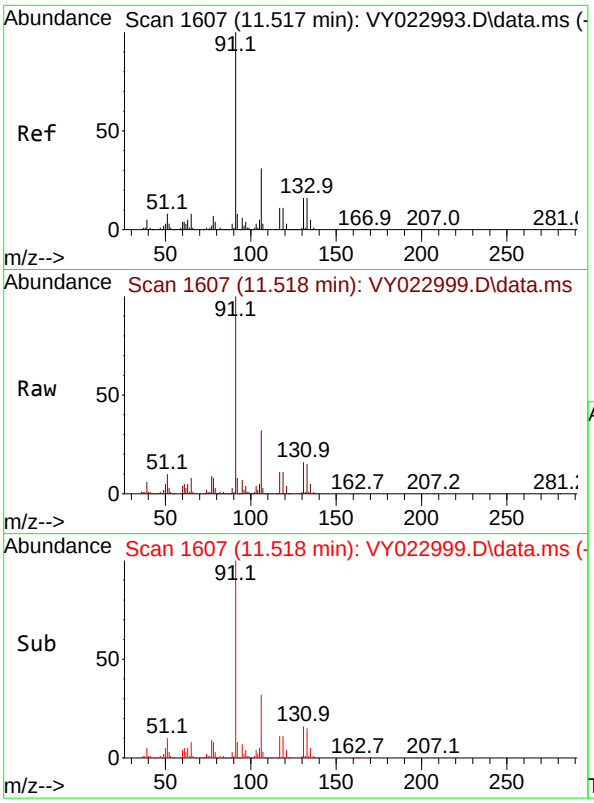


#66
1,1,1,2-Tetrachloroethane
Concen: 19.062 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:131 Resp: 92484

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.8	143.3
119	67.6	33.3	99.8

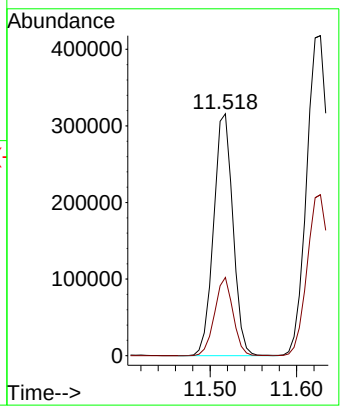




#67
Ethyl Benzene
Concen: 19.406 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 91 Resp: 48928

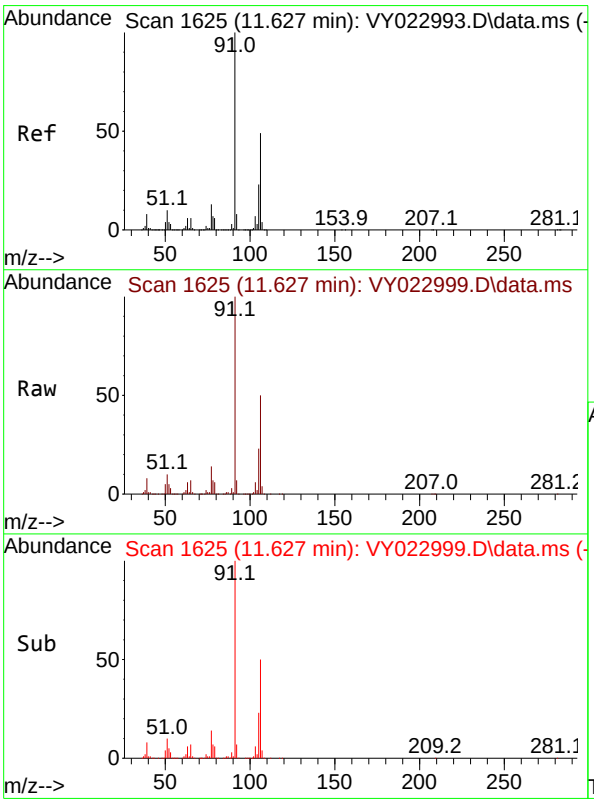
Ion	Ratio	Lower	Upper
91	100		
106	32.3	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

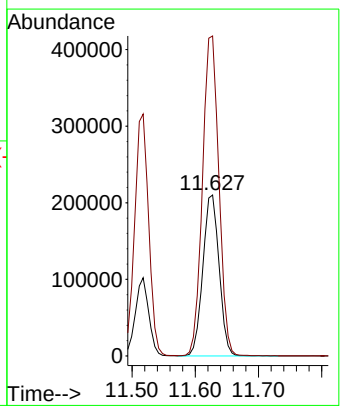
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

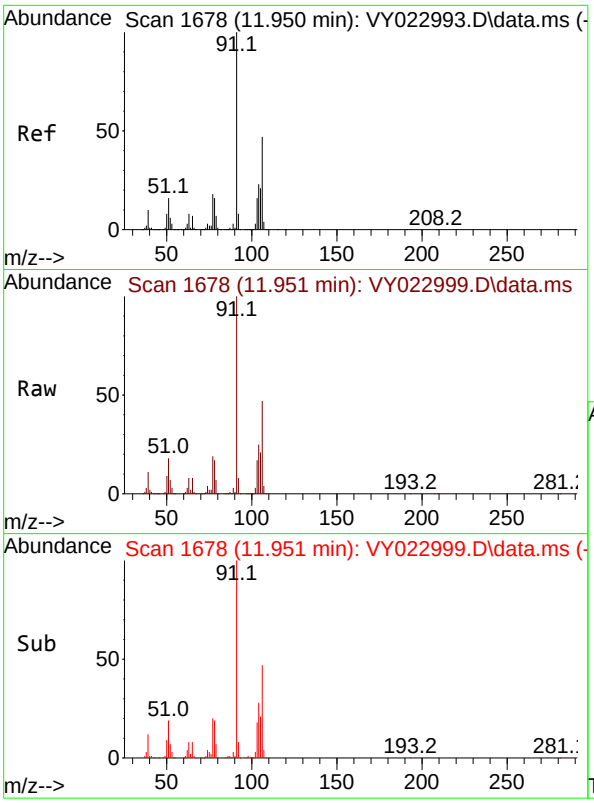


#68
m/p-Xylenes
Concen: 38.869 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:106 Resp: 375895

Ion	Ratio	Lower	Upper
106	100		
91	200.5	159.8	239.8

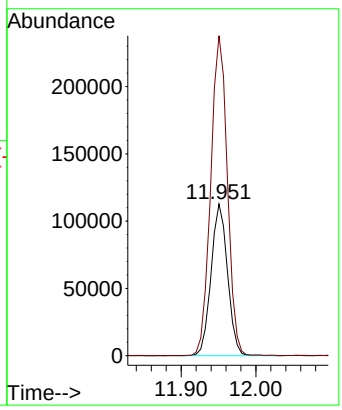




#69
o-Xylene
Concen: 19.161 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:106 Resp: 17196

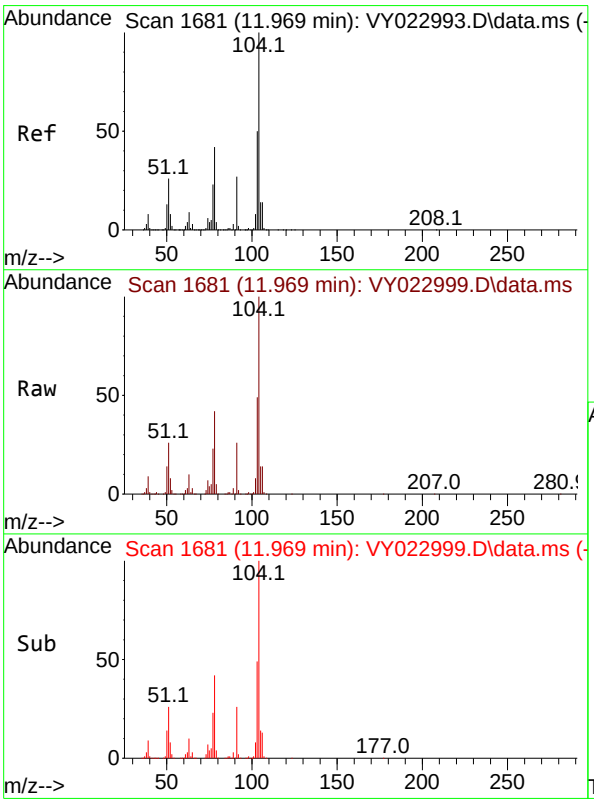
Ion	Ratio	Lower	Upper
106	100		
91	214.2	106.3	318.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

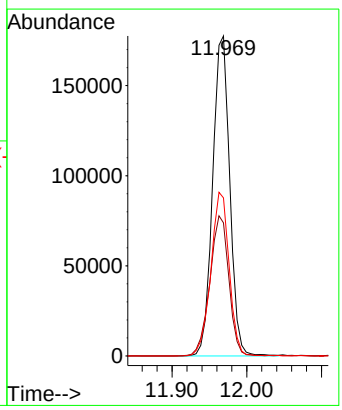
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

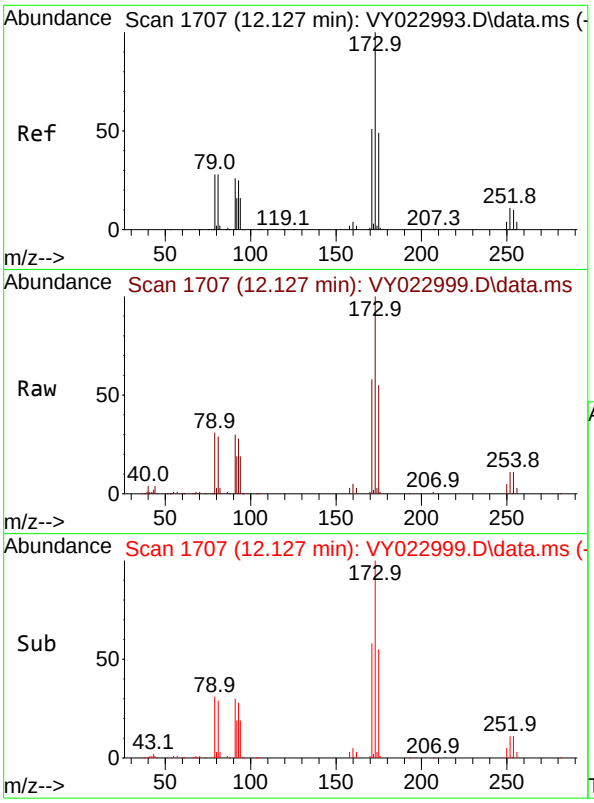


#70
Styrene
Concen: 19.177 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:104 Resp: 281919

Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.0	58.6
103	54.6	43.7	65.5

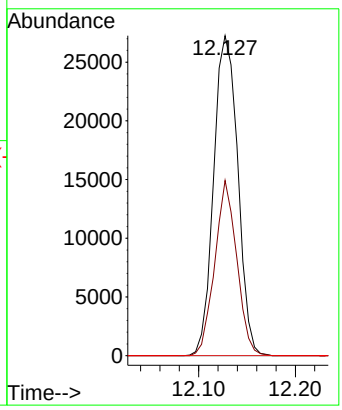




#71
Bromoform
Concen: 19.165 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:173 Resp: 4720

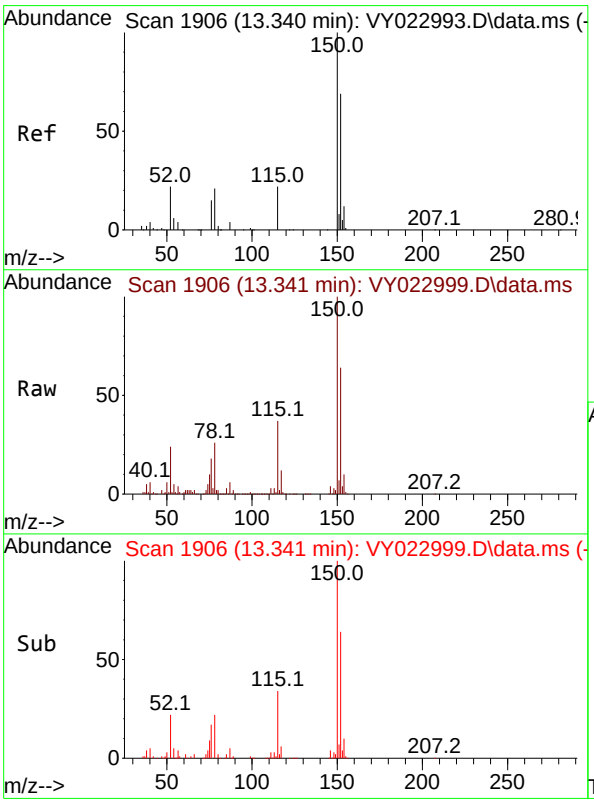
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

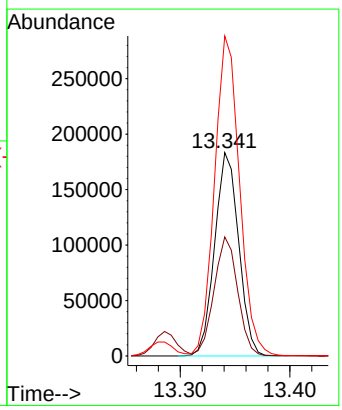
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

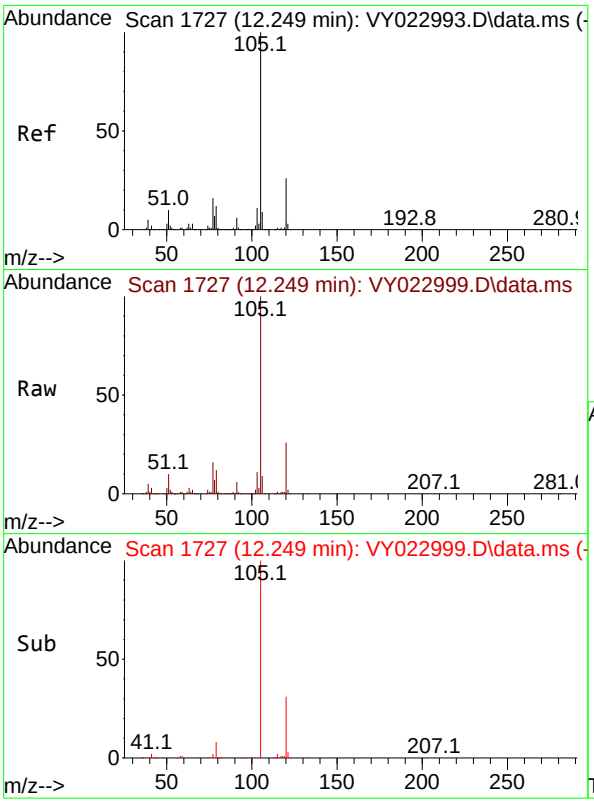


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.341 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:152 Resp: 278729

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	163.9	0.0	350.0

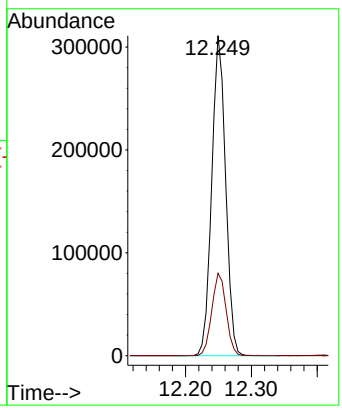




#73
Isopropylbenzene
Concen: 19.298 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:105 Resp: 45603

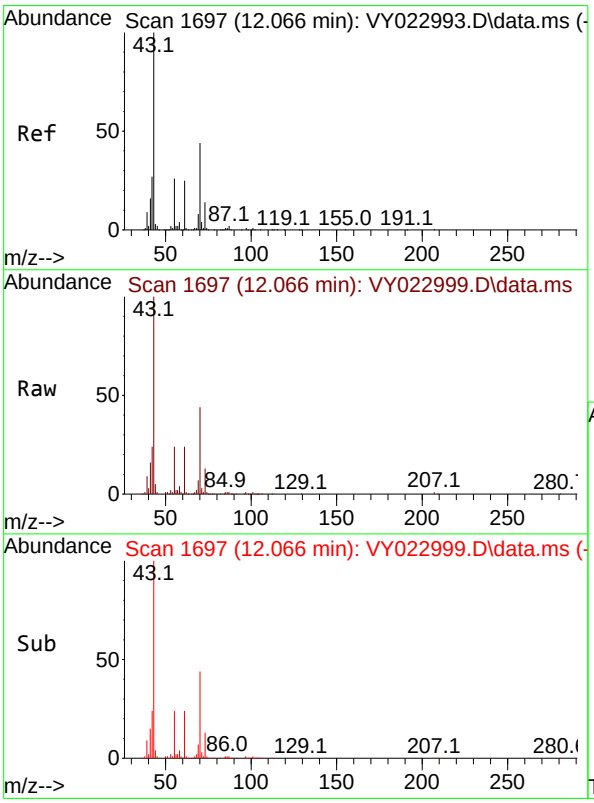
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

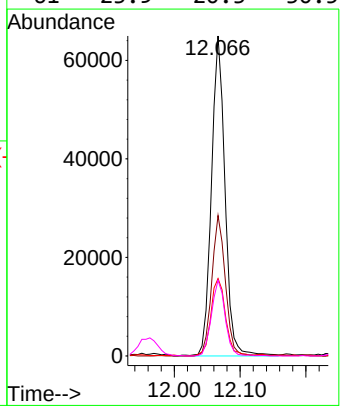
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

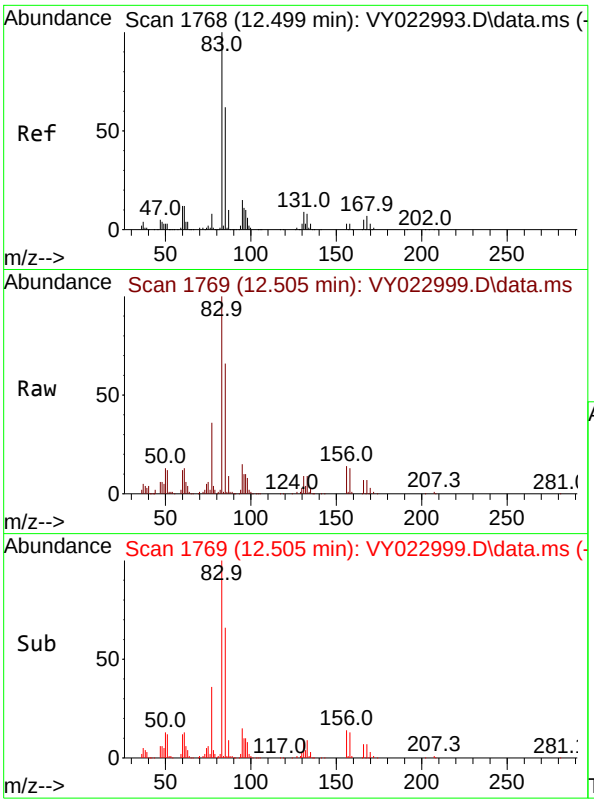


#74
N-amyl acetate
Concen: 20.983 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 93486

Ion	Ratio	Lower	Upper
43	100		
70	43.7	36.2	54.2
55	26.2	20.9	31.3
61	23.9	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 19.356 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

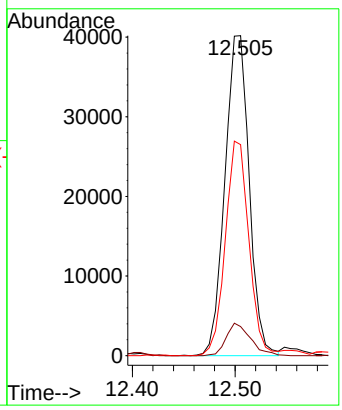
Tgt Ion: 83 Resp: 6619

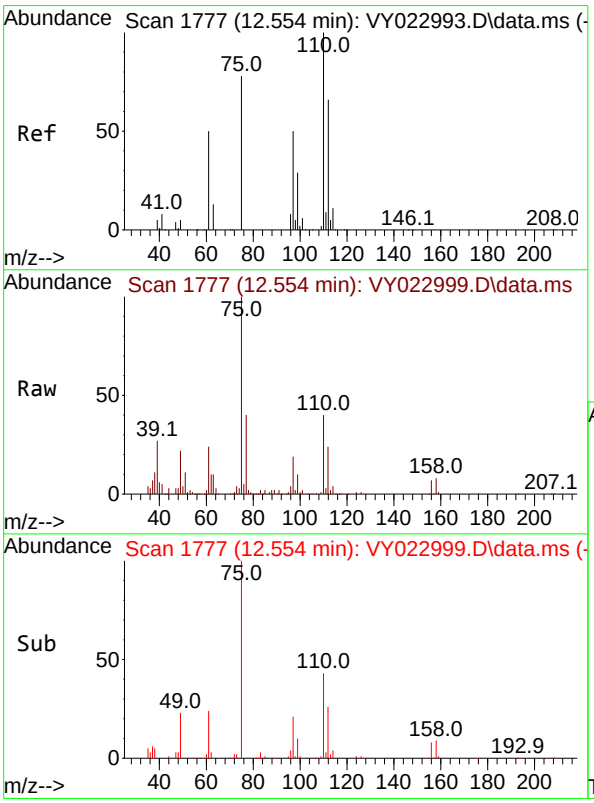
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	65.0	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

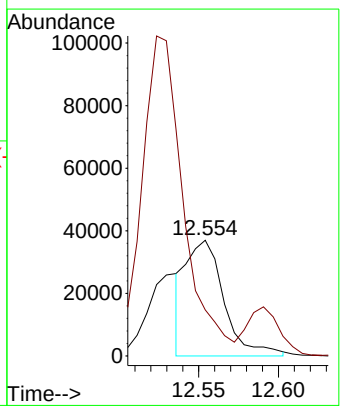


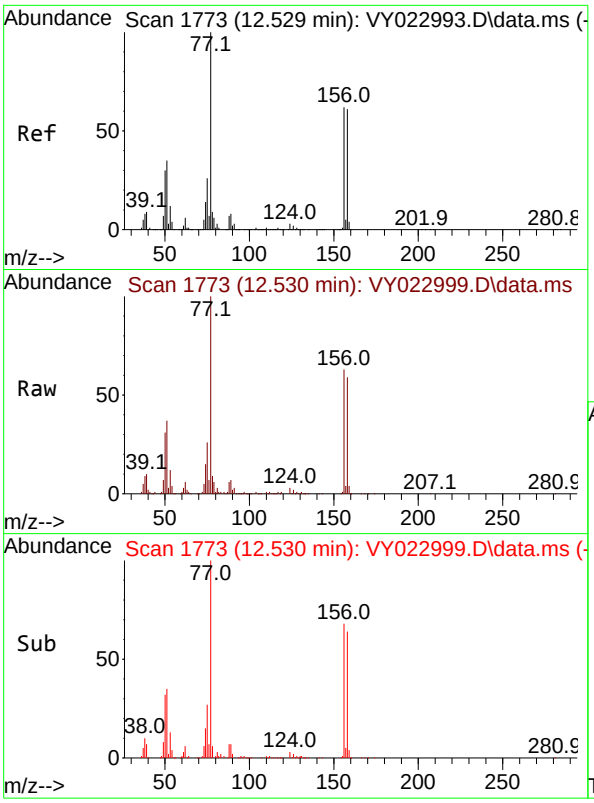


#76
1,2,3-Trichloropropane
Concen: 17.726 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 61566

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

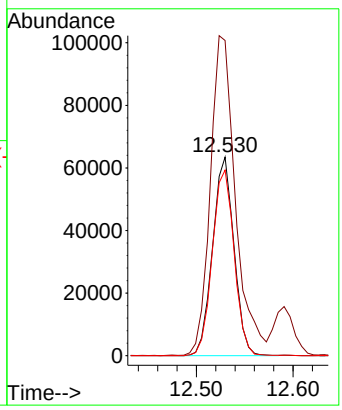




#77
Bromobenzene
Concen: 19.003 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:156 Resp: 9739

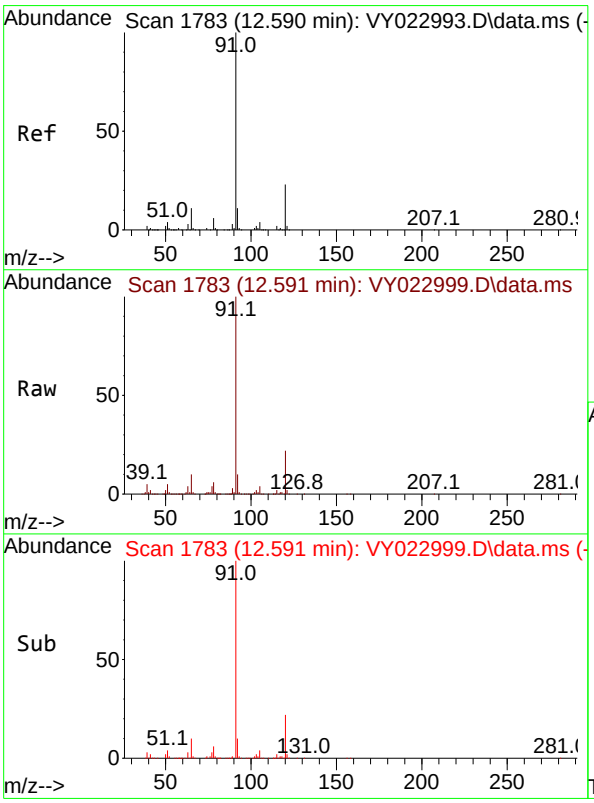
Ion	Ratio	Lower	Upper
156	100		
77	189.9	92.0	276.1
158	95.4	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

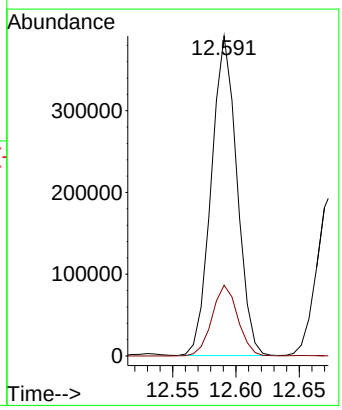
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

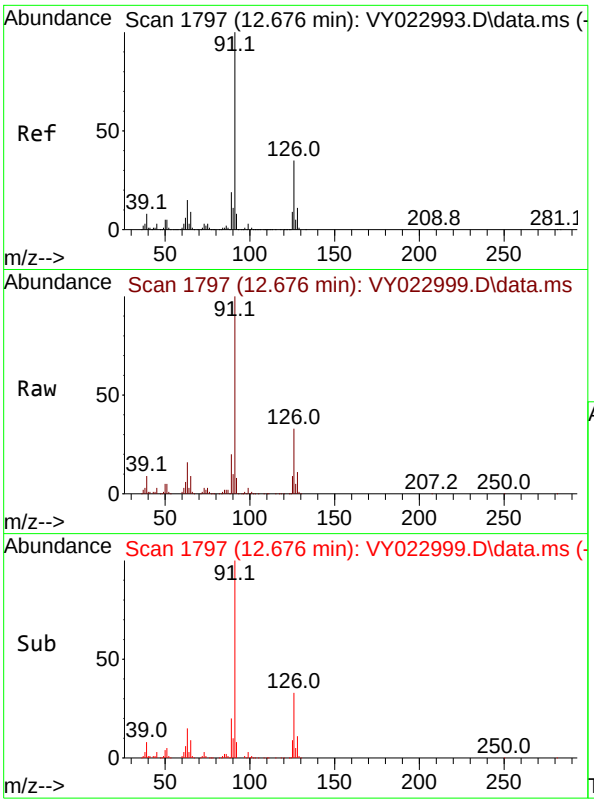


#78
n-propylbenzene
Concen: 19.583 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 91 Resp: 551100

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.8





#79
2-Chlorotoluene
Concen: 19.442 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

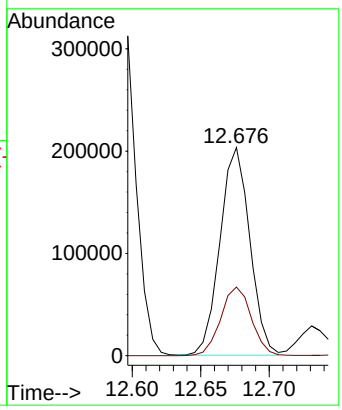
Tgt Ion: 91 Resp: 30770

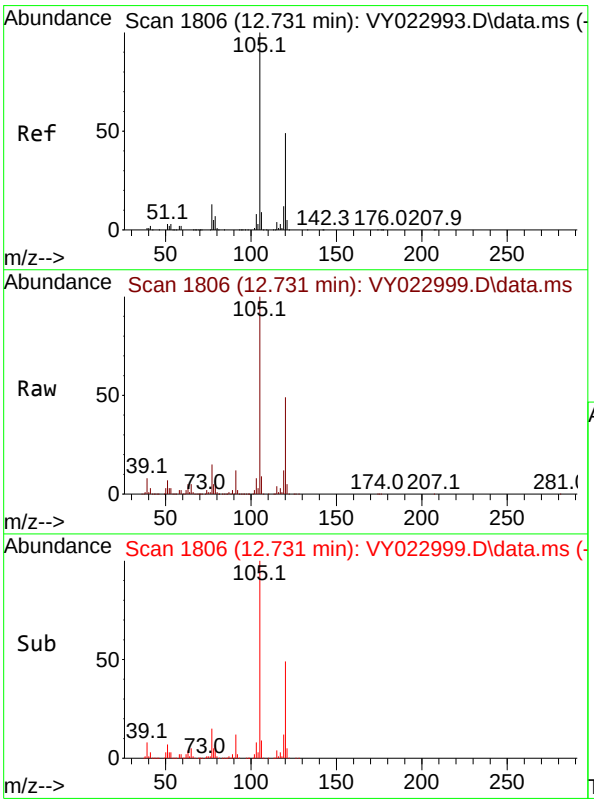
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.0	50.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

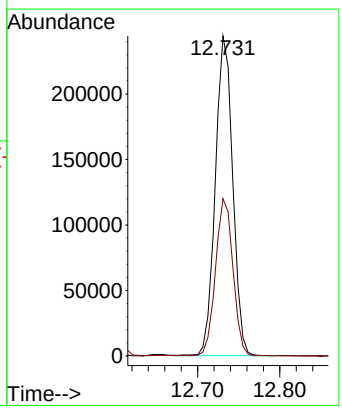


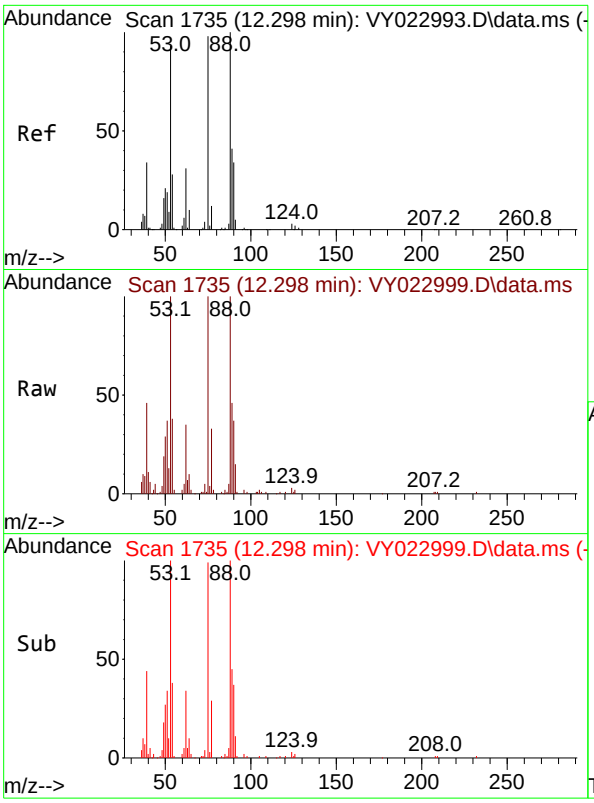


#80
1,3,5-Trimethylbenzene
Concen: 19.246 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:105 Resp: 358710

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.6	73.8





#81
trans-1,4-Dichloro-2-butene
Concen: 19.396 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

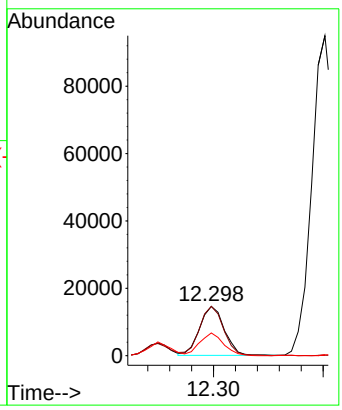
Tgt Ion: 75 Resp: 2261

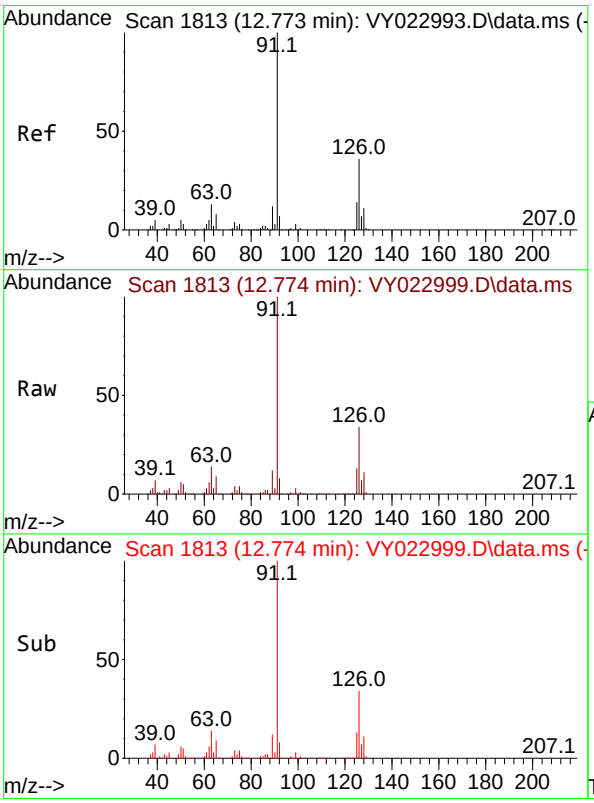
Ion	Ratio	Lower	Upper
75	100		
53	99.5	76.1	114.1
89	44.8	36.1	54.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

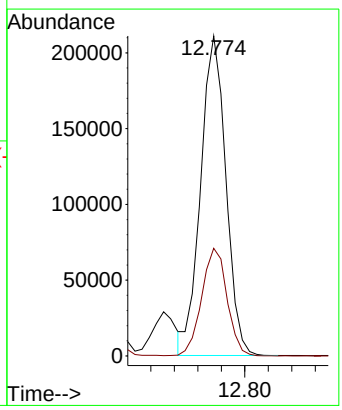


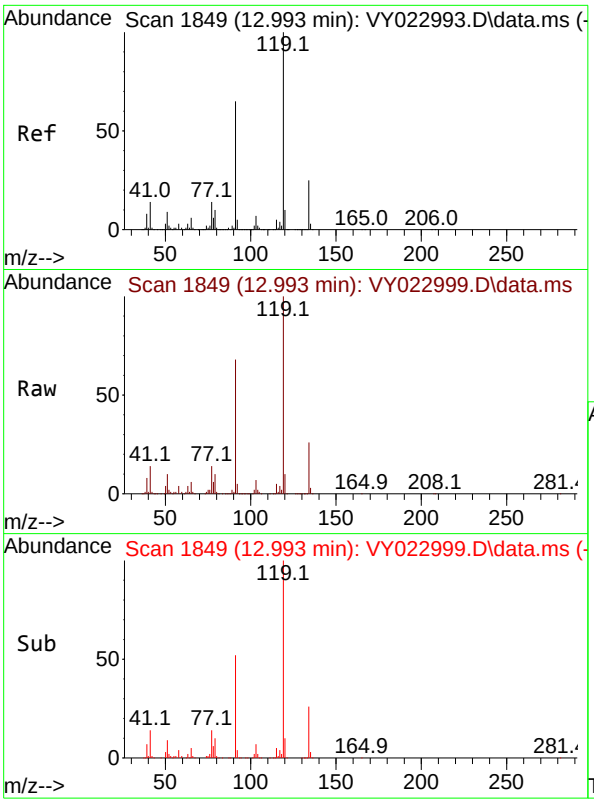


#82
4-Chlorotoluene
Concen: 19.710 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 91 Resp: 314623

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.2	51.5

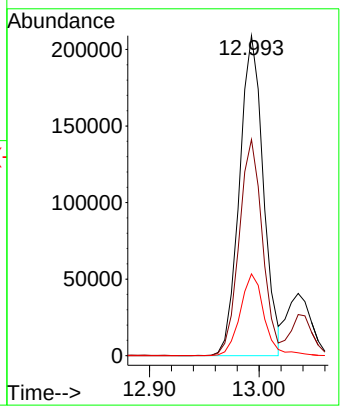




#83
tert-Butylbenzene
Concen: 18.735 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:119 Resp: 31540

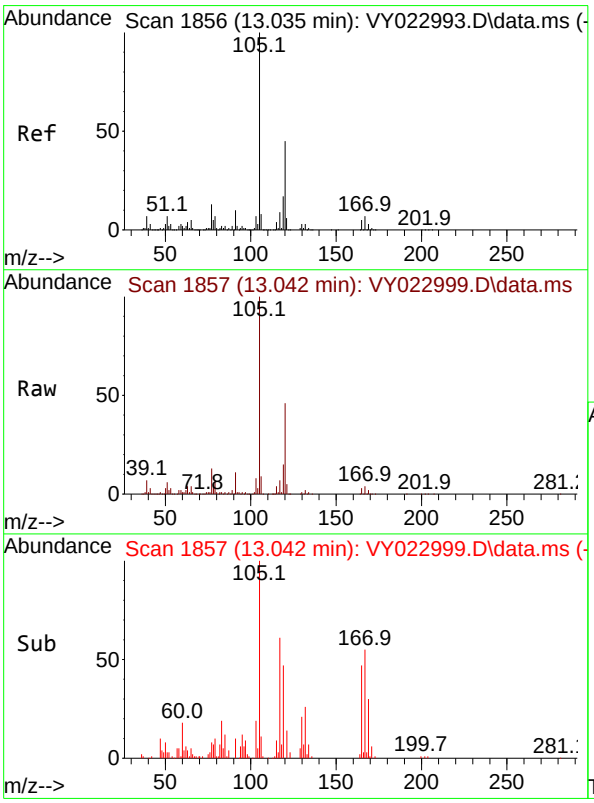
Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.0	96.2
134	25.9	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

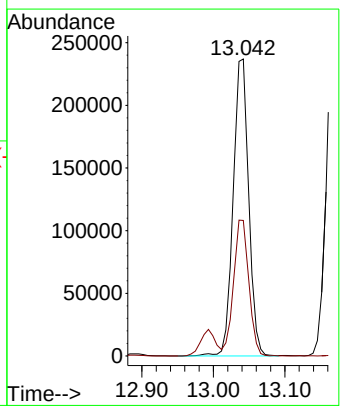
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

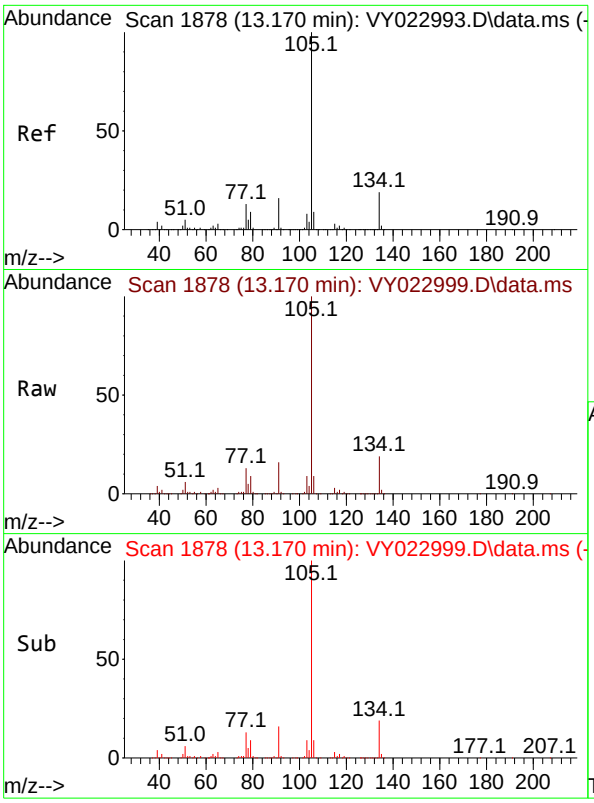


#84
1,2,4-Trimethylbenzene
Concen: 19.433 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:105 Resp: 356535

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8

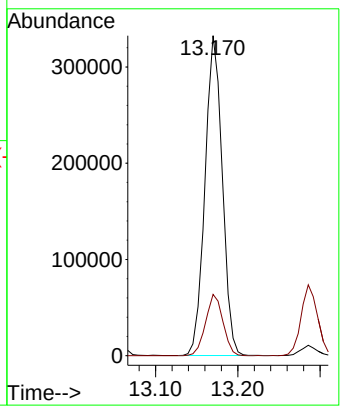




#85
sec-Butylbenzene
Concen: 19.267 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:105 Resp: 48609

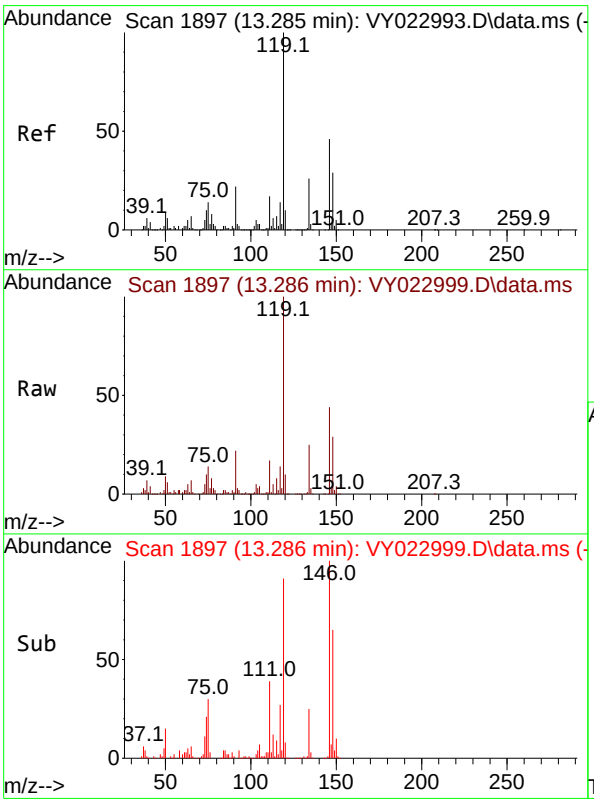
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

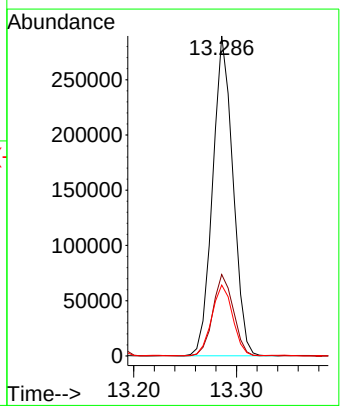
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

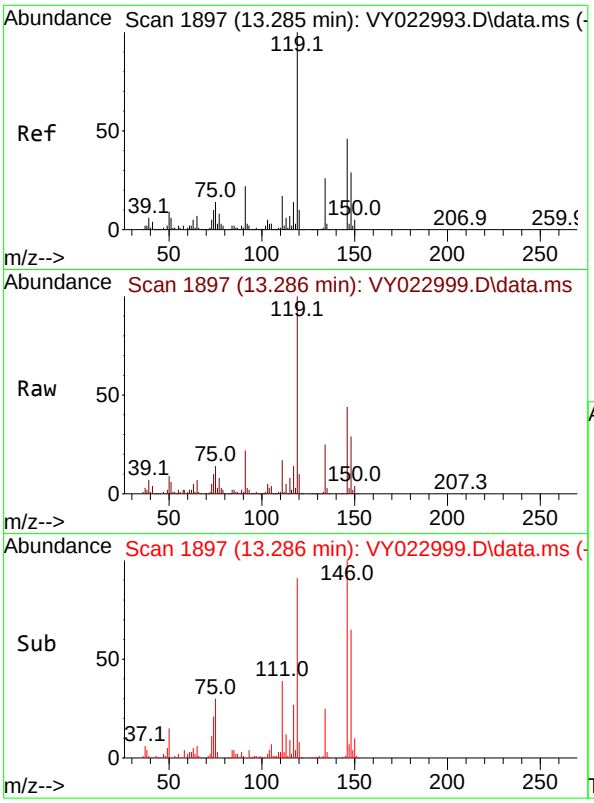


#86
p-Isopropyltoluene
Concen: 19.377 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:119 Resp: 397045

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.1	39.1
91	22.6	11.4	34.1

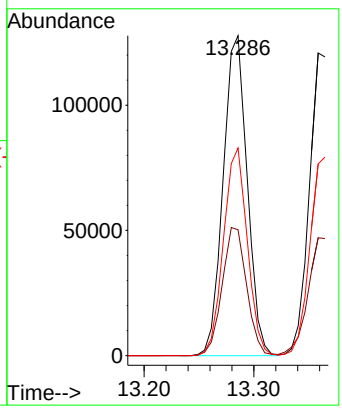




#87
1,3-Dichlorobenzene
Concen: 18.836 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:146 Resp: 19482

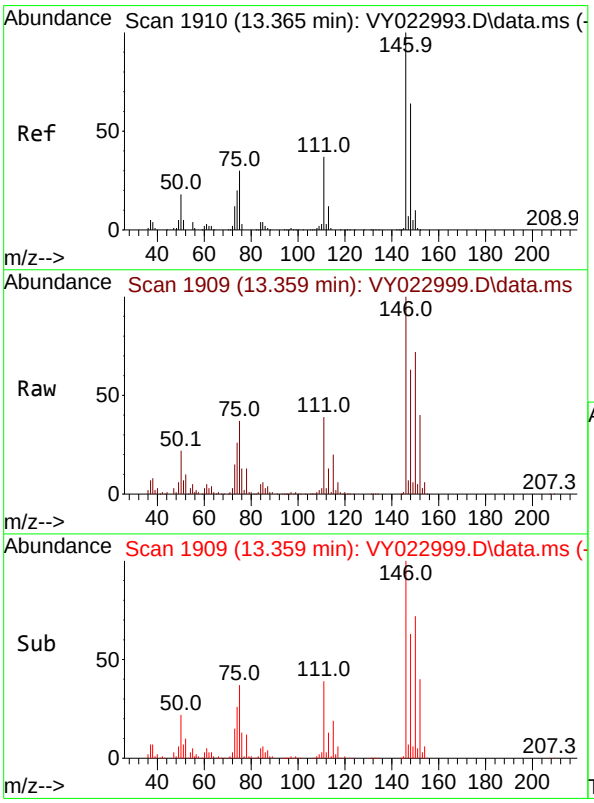
Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.8	59.3
148	64.3	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

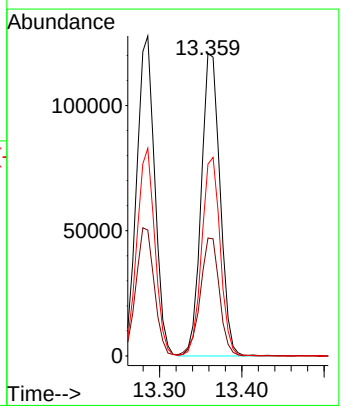
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

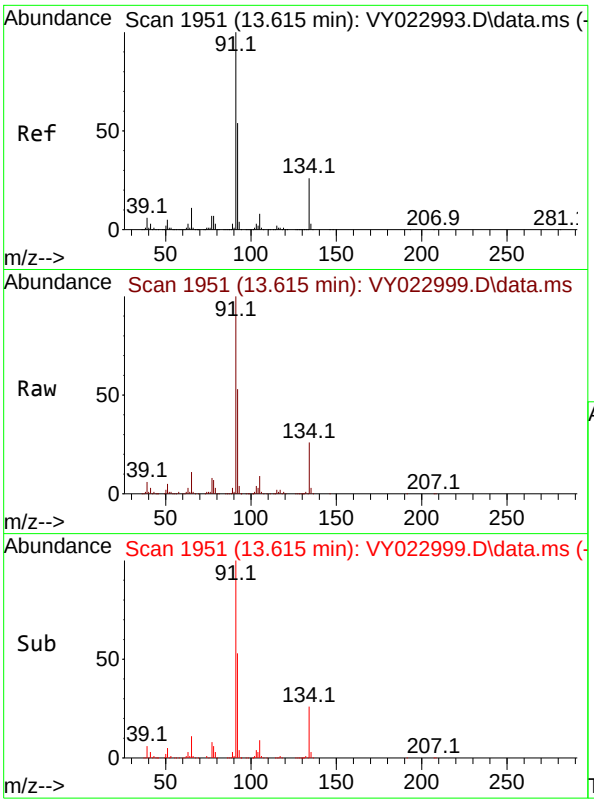


#88
1,4-Dichlorobenzene
Concen: 19.165 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:146 Resp: 191774

Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.2	57.6
148	64.7	31.9	95.5





#89
n-Butylbenzene
Concen: 19.579 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

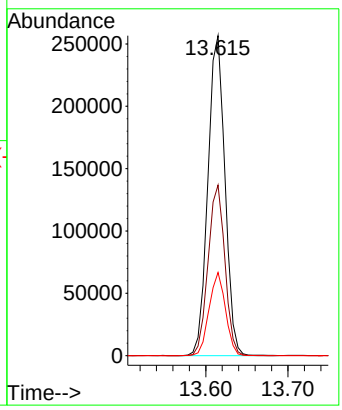
Tgt Ion: 91 Resp: 370199

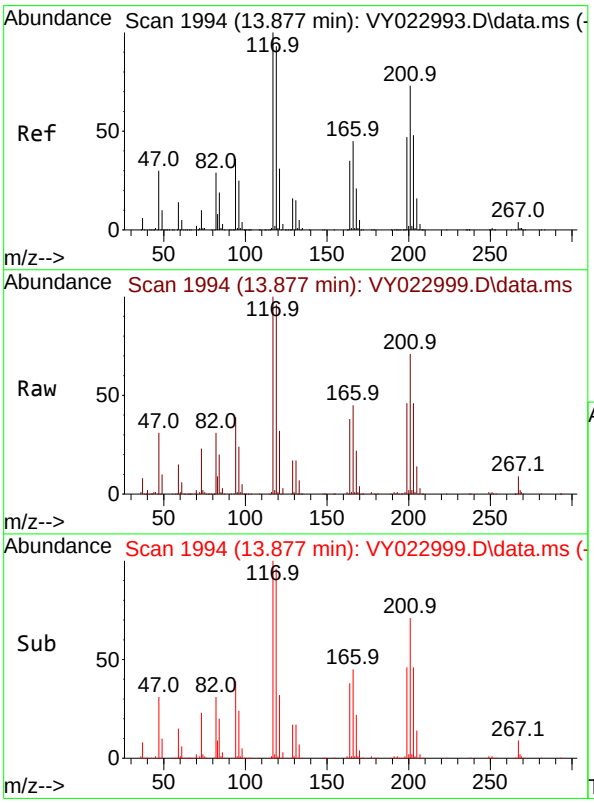
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	25.0	12.6	37.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

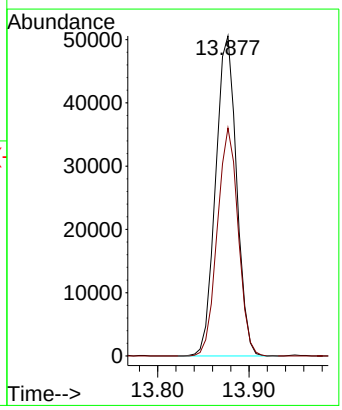


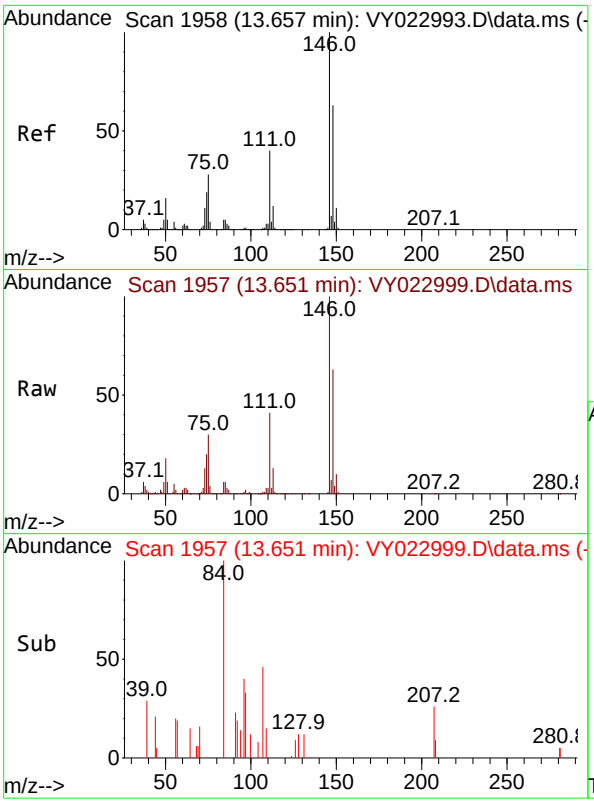


#90
Hexachloroethane
Concen: 18.996 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:117 Resp: 80585

Ion	Ratio	Lower	Upper
117	100		
201	71.0	36.1	108.5

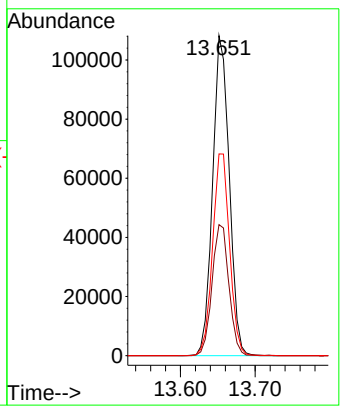




#91
1,2-Dichlorobenzene
Concen: 19.151 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:146 Resp: 16709

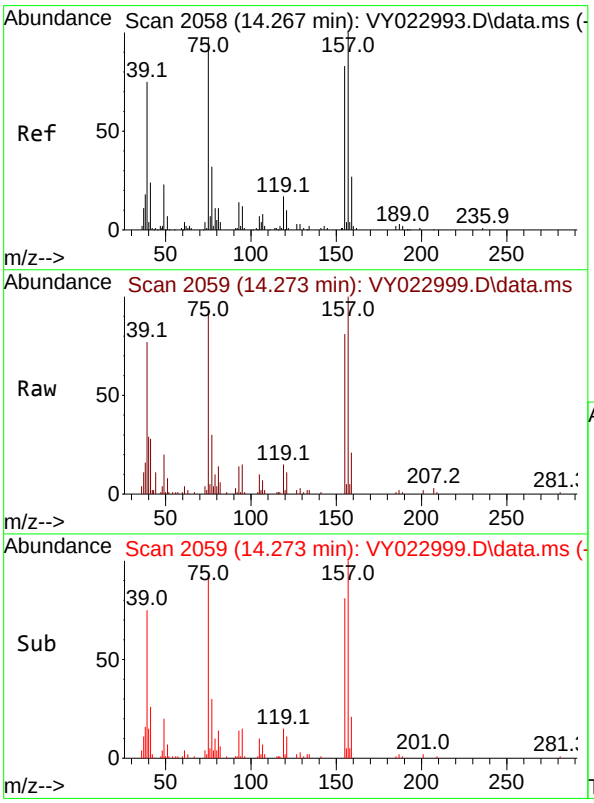
Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	61.0
148	64.6	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

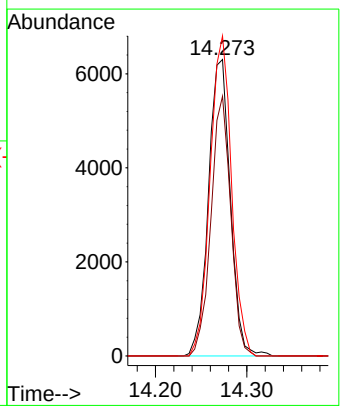
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

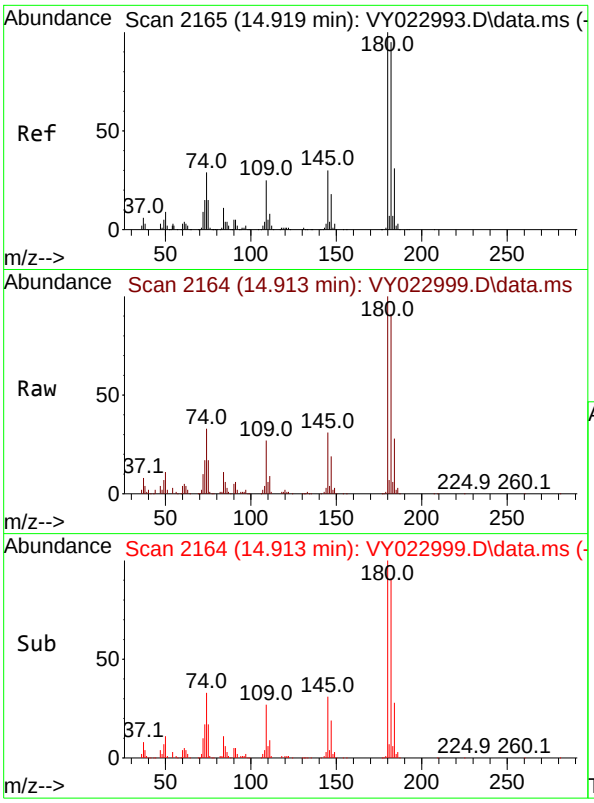


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.645 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 10483

Ion	Ratio	Lower	Upper
75	100		
155	79.2	42.8	128.3
157	105.9	54.3	162.9





#93
1,2,4-Trichlorobenzene
Concen: 19.553 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

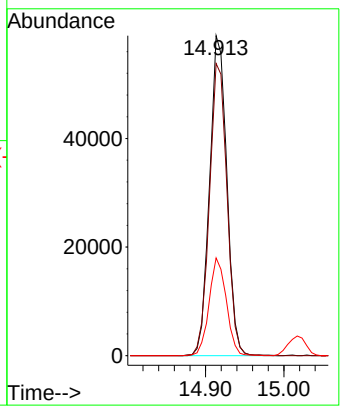
Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

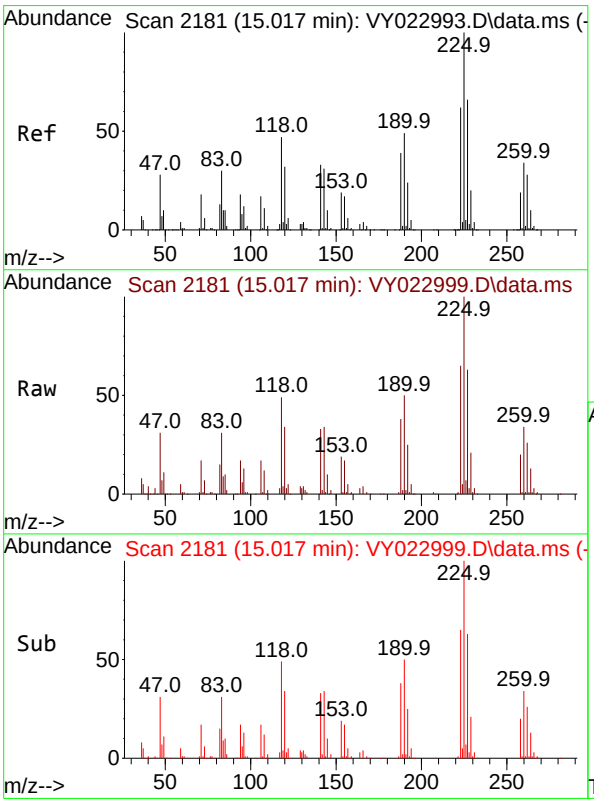
Tgt Ion:180 Resp: 8992

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.5	142.5
145	30.6	14.9	44.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

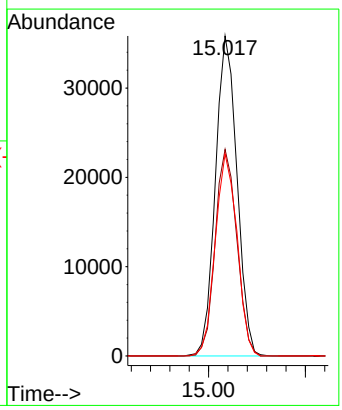


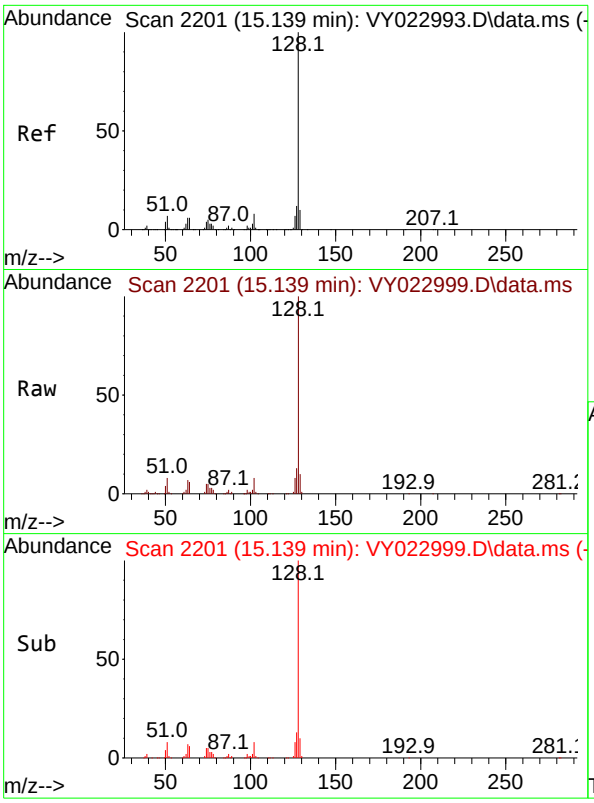


#94
Hexachlorobutadiene
Concen: 19.115 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:225 Resp: 55423

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.4	94.0
227	63.8	32.1	96.5

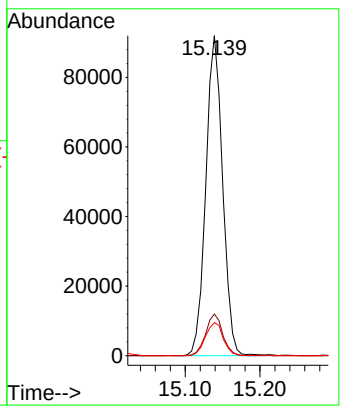




#95
Naphthalene
Concen: 19.476 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:128 Resp: 14366

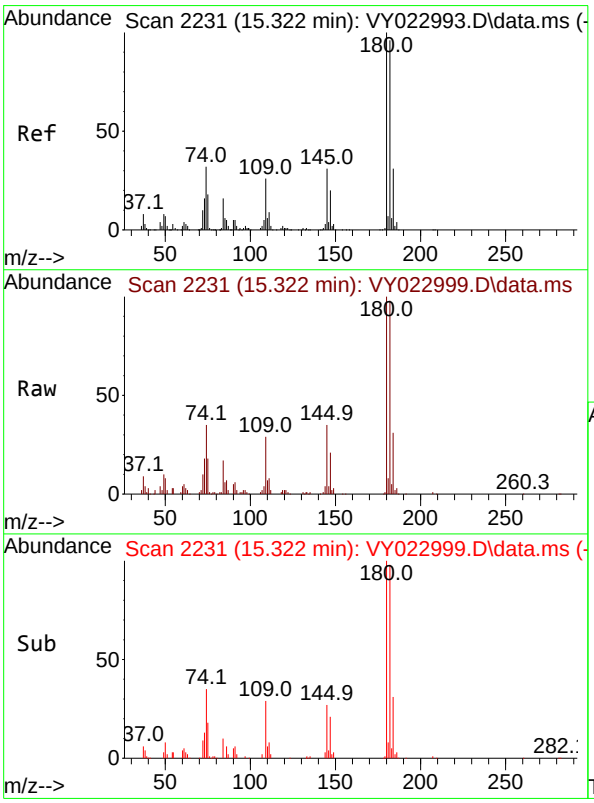
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.0	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Manual Integrations
APPROVED

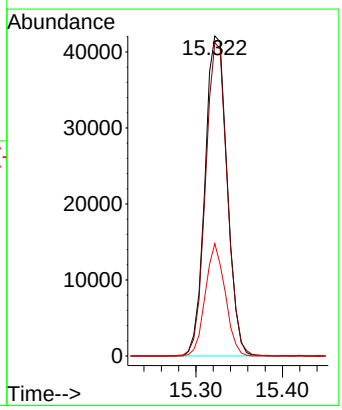
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.697 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:180 Resp: 74797

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.3	142.0
145	31.4	15.8	47.4



Raw Data: **VY023017.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0721SBS01	SDG No.:	Q2639
Lab Sample ID:	VY0721SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023017.D	1	07/21/25 11:13	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.020		0.0011	0.0040	0.0050	mg/Kg
74-87-3	Chloromethane	0.022		0.0011	0.0025	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.021		0.00079	0.0025	0.0050	mg/Kg
74-83-9	Bromomethane	0.024		0.0011	0.0040	0.0050	mg/Kg
75-00-3	Chloroethane	0.022		0.0013	0.0025	0.0050	mg/Kg
109-99-9	Tetrahydrofuran	0.12		0.0047	0.013	0.025	mg/Kg
75-69-4	Trichlorofluoromethane	0.021		0.0012	0.0040	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.020		0.0011	0.0025	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.020		0.0010	0.0025	0.0050	mg/Kg
107-13-1	Acrylonitrile	0.12		0.0050	0.013	0.025	mg/Kg
67-64-1	Acetone	0.15		0.0047	0.020	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.021		0.0011	0.0040	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.022		0.00073	0.0025	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.020		0.0035	0.0080	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.021		0.00086	0.0025	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.021		0.00080	0.0025	0.0050	mg/Kg
78-93-3	2-Butanone	0.13		0.0065	0.020	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.020		0.00097	0.0025	0.0050	mg/Kg
594-20-7	2,2-Dichloropropane	0.021		0.0013	0.0040	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.020		0.00075	0.0025	0.0050	mg/Kg
67-66-3	Chloroform	0.021		0.00084	0.0040	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.020		0.00093	0.0025	0.0050	mg/Kg
563-58-6	1,1-Dichloropropene	0.020		0.00087	0.0025	0.0050	mg/Kg
71-43-2	Benzene	0.020		0.00079	0.0025	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.022		0.00079	0.0025	0.0050	mg/Kg
79-01-6	Trichloroethene	0.019		0.00081	0.0025	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.020		0.00091	0.0025	0.0050	mg/Kg
74-95-3	Dibromomethane	0.022		0.00089	0.0025	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.021		0.00078	0.0025	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.11		0.0036	0.013	0.025	mg/Kg

Raw Data: **VY023017.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0721SBS01	SDG No.:	Q2639
Lab Sample ID:	VY0721SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023017.D	1	07/21/25 11:13	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.020		0.00078	0.0025	0.0050	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.021		0.00065	0.0025	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.021		0.00062	0.0025	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.021		0.00092	0.0025	0.0050	mg/Kg
142-28-9	1,3-Dichloropropane	0.021		0.00068	0.0025	0.0050	mg/Kg
591-78-6	2-Hexanone	0.12		0.0037	0.013	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.021		0.00087	0.0025	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.022		0.00088	0.0025	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.019		0.0011	0.0025	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.020		0.00091	0.0025	0.0050	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.020		0.00077	0.0025	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.019		0.00067	0.0025	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.039		0.0012	0.0050	0.010	mg/Kg
1330-20-7	Total Xylenes	0.058		0.0020	0.0075	0.015	mg/Kg
95-47-6	o-Xylene	0.020		0.00082	0.0025	0.0050	mg/Kg
100-42-5	Styrene	0.019		0.00071	0.0025	0.0050	mg/Kg
75-25-2	Bromoform	0.021		0.00086	0.0025	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.019		0.00078	0.0025	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.021		0.0012	0.0025	0.0050	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.018		0.0012	0.0040	0.0050	mg/Kg
108-86-1	Bromobenzene	0.019		0.0012	0.0025	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.019		0.00073	0.0025	0.0050	mg/Kg
95-49-8	2-Chlorotoluene	0.019		0.00068	0.0025	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.019		0.00082	0.0025	0.0050	mg/Kg
106-43-4	4-Chlorotoluene	0.019		0.0012	0.0025	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.019		0.00067	0.0025	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.019		0.00064	0.0025	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.019		0.00066	0.0025	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.019		0.00062	0.0025	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.019		0.0017	0.0025	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.020		0.0016	0.0025	0.0050	mg/Kg

Raw Data: **VY023017.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0721SBS01	SDG No.:	Q2639
Lab Sample ID:	VY0721SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023017.D	1	07/21/25 11:13	VY072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.019		0.0015	0.0025	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.019		0.0015	0.0025	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.023		0.0018	0.0040	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.020		0.0030	0.0040	0.0050	mg/Kg
87-68-3	Hexachlorobutadiene	0.019		0.0019	0.0025	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.021		0.0032	0.0040	0.0050	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.020		0.0011	0.0025	0.0050	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.0		71 - 136		104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		78 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	47.6		85 - 116		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		79 - 119		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	417000	7.707				
540-36-3	1,4-Difluorobenzene	691000	8.616				
3114-55-4	Chlorobenzene-d5	586000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	284000	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\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	417337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	691452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	586317	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	283751	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	219889	52.047	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.100%			
35) Dibromofluoromethane	7.634	113	210938	48.092	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.180%			
50) Toluene-d8	10.103	98	827118	47.553	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.100%			
62) 4-Bromofluorobenzene	12.401	95	258332	47.182	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	70825	19.987	ug/l	96
3) Chloromethane	2.068	50	133065	22.084	ug/l	99
4) Vinyl Chloride	2.202	62	162134	21.239	ug/l	99
5) Bromomethane	2.592	94	134057	24.332	ug/l	99
6) Chloroethane	2.732	64	112975	22.159	ug/l	99
7) Trichlorofluoromethane	3.056	101	187057	21.109	ug/l	95
8) Diethyl Ether	3.452	74	50505	21.776	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	94675	20.338	ug/l	99
10) Methyl Iodide	4.007	142	86654	17.919	ug/l	99
11) Tert butyl alcohol	4.860	59	29742	116.404	ug/l	100
12) 1,1-Dichloroethene	3.787	96	89671	20.221	ug/l	97
13) Acrolein	3.653	56	18665	155.460	ug/l	95
14) Allyl chloride	4.378	41	139366	20.628	ug/l	99
15) Acrylonitrile	5.055	53	103105	117.367	ug/l	100
16) Acetone	3.872	43	113819	148.622	ug/l	100
17) Carbon Disulfide	4.104	76	280632	20.880	ug/l	99
18) Methyl Acetate	4.385	43	57135	22.037	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	233203	21.924	ug/l	98
20) Methylene Chloride	4.616	84	135775	20.247	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	101510	20.564	ug/l	97
22) Diisopropyl ether	6.018	45	309021	21.560	ug/l	98
23) Vinyl Acetate	5.957	43	826708	114.473	ug/l	100
24) 1,1-Dichloroethane	5.915	63	186822	20.752	ug/l	99
25) 2-Butanone	6.890	43	143739	130.833	ug/l	99
26) 2,2-Dichloropropane	6.884	77	161660	20.489	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	116165	20.419	ug/l	99
28) Bromochloromethane	7.244	49	75745	21.693	ug/l	96
29) Tetrahydrofuran	7.262	42	81464	117.116	ug/l	100
30) Chloroform	7.421	83	189111	20.824	ug/l	95
31) Cyclohexane	7.701	56	167294	19.888	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	166781	20.240	ug/l	99
36) 1,1-Dichloropropene	7.835	75	136134	19.704	ug/l	99
37) Ethyl Acetate	6.988	43	58625	22.847	ug/l	99
38) Carbon Tetrachloride	7.817	117	148433	19.775	ug/l	98
39) Methylcyclohexane	9.109	83	167760	18.760	ug/l	98
40) Benzene	8.079	78	418020	20.095	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	30580m	21.877	ug/l		
42) 1,2-Dichloroethane	8.158	62	111901	21.622	ug/l		99
43) Isopropyl Acetate	8.195	43	114470	22.459	ug/l	#	86
44) Trichloroethene	8.865	130	103444	19.361	ug/l		97
45) 1,2-Dichloropropane	9.140	63	98991	20.378	ug/l		97
46) Dibromomethane	9.231	93	54493	21.702	ug/l		99
47) Bromodichloromethane	9.420	83	142773	20.570	ug/l		98
48) Methyl methacrylate	9.219	41	54690	22.225	ug/l		99
49) 1,4-Dioxane	9.225	88	12190	460.562	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	296911	114.770	ug/l		99
52) Toluene	10.170	92	258346	19.975	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	123664	20.756	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	150566	20.967	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	70181	21.265	ug/l		96
56) Ethyl methacrylate	10.438	69	88261	21.424	ug/l		98
57) 1,3-Dichloropropane	10.713	76	121849	21.373	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	197528	97.947	ug/l		98
59) 2-Hexanone	10.761	43	204354	120.174	ug/l		99
60) Dibromochloromethane	10.908	129	90494	20.940	ug/l		98
61) 1,2-Dibromoethane	11.011	107	64686	21.584	ug/l		98
64) Tetrachloroethene	10.646	164	115530	19.278	ug/l		94
65) Chlorobenzene	11.438	112	276316	19.972	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	92315	19.563	ug/l		99
67) Ethyl Benzene	11.517	91	472954	19.286	ug/l		100
68) m/p-Xylenes	11.627	106	365243	38.830	ug/l		99
69) o-Xylene	11.950	106	169844	19.457	ug/l		100
70) Styrene	11.969	104	276934	19.367	ug/l		99
71) Bromoform	12.133	173	51038	21.305	ug/l	#	99
73) Isopropylbenzene	12.255	105	447600	18.606	ug/l		99
74) N-amyl acetate	12.066	43	95827	21.128	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	73937	21.238	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	64760m	18.316	ug/l		
77) Bromobenzene	12.529	156	100323	19.228	ug/l		100
78) n-propylbenzene	12.590	91	545094	19.027	ug/l		99
79) 2-Chlorotoluene	12.676	91	306395	19.016	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	357988	18.868	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	24013	20.228	ug/l		98
82) 4-Chlorotoluene	12.773	91	310771	19.124	ug/l		99
83) tert-Butylbenzene	12.993	119	319915	18.666	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	351737	18.832	ug/l		99
85) sec-Butylbenzene	13.170	105	480603	18.712	ug/l		100
86) p-Isopropyltoluene	13.292	119	392976	18.839	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	200360	19.028	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	199817	19.616	ug/l		99
89) n-Butylbenzene	13.615	91	366638	19.048	ug/l		99
90) Hexachloroethane	13.877	117	80981	18.751	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	169075	19.036	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12015	23.243	ug/l		93
93) 1,2,4-Trichlorobenzene	14.919	180	93870	20.050	ug/l		99
94) Hexachlorobutadiene	15.023	225	55300	18.735	ug/l		99
95) Naphthalene	15.139	128	156400	20.828	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	79873	20.662	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

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

Sample Results: **VY023017.D**

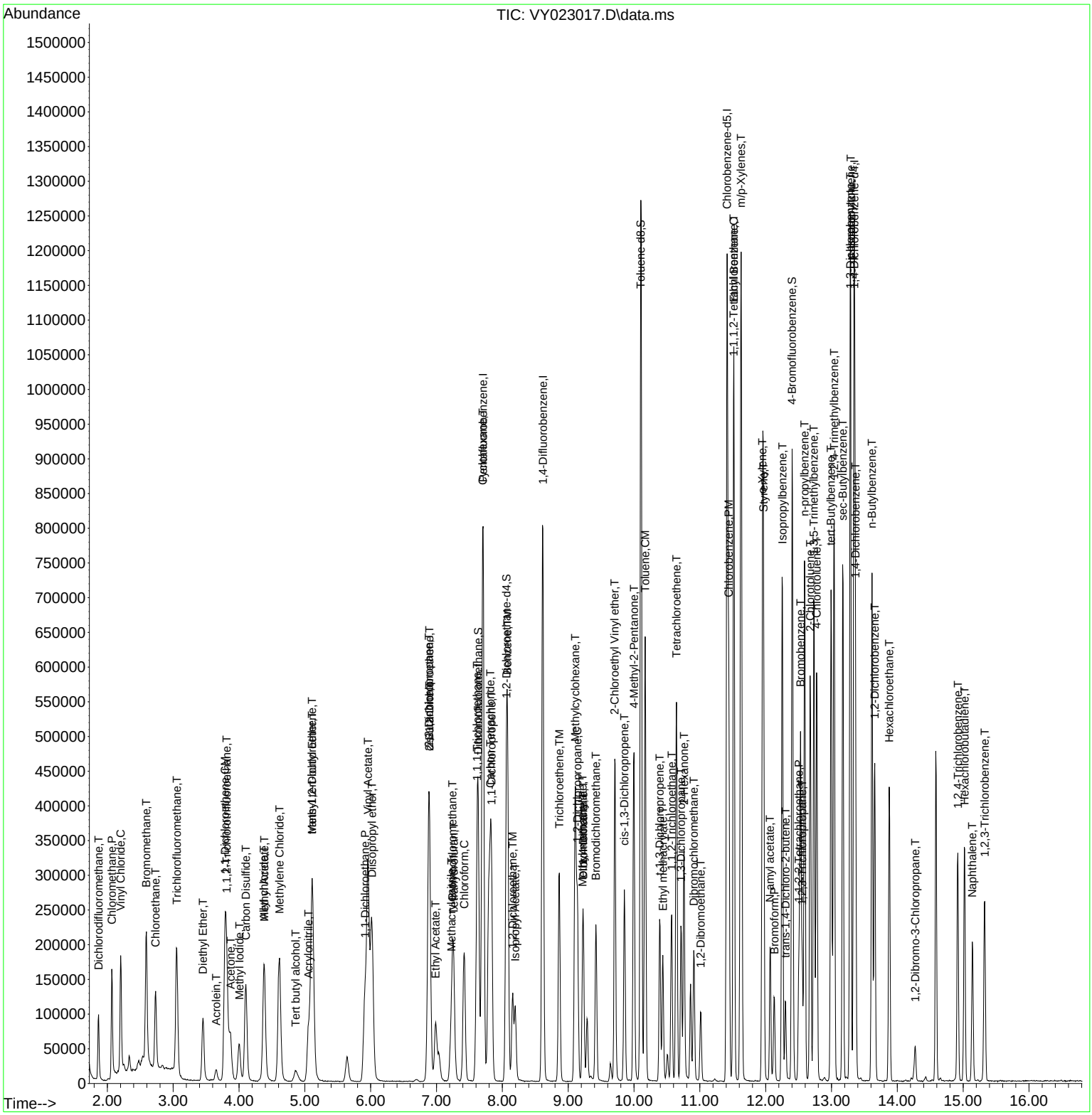
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

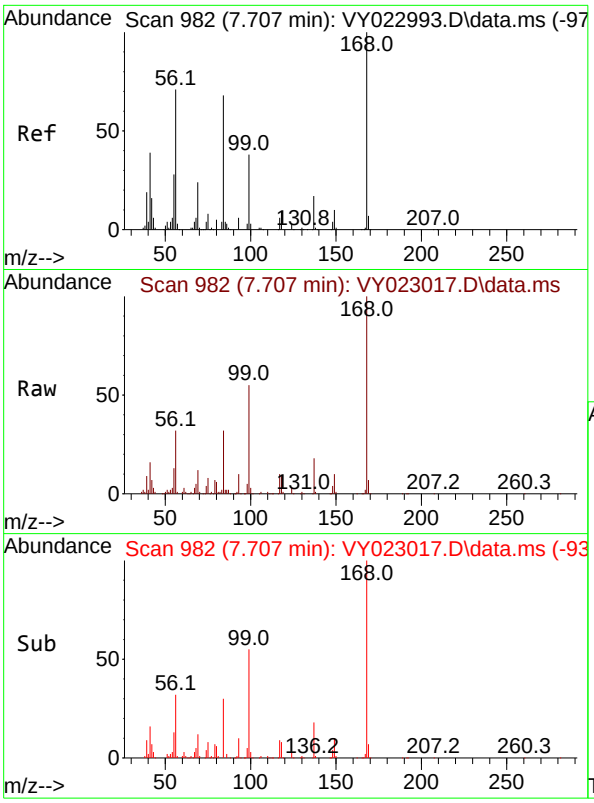
Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

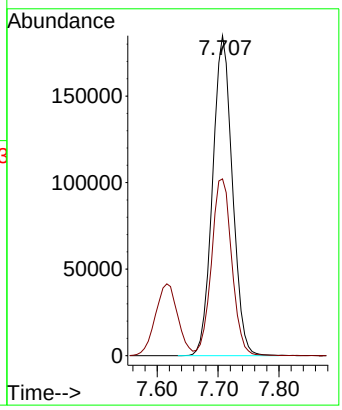




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:168 Resp: 41733

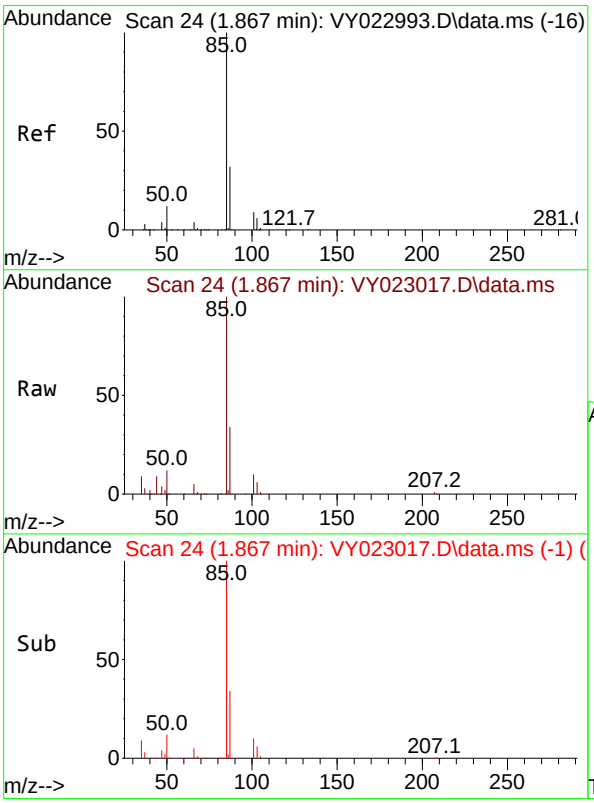
Ion	Ratio	Lower	Upper
168	100		
99	55.2	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

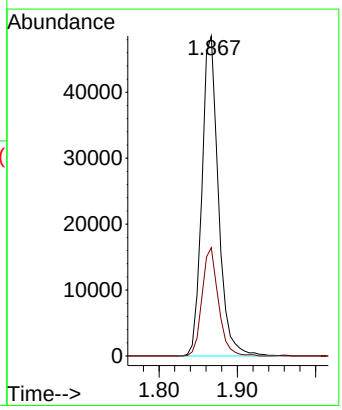
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

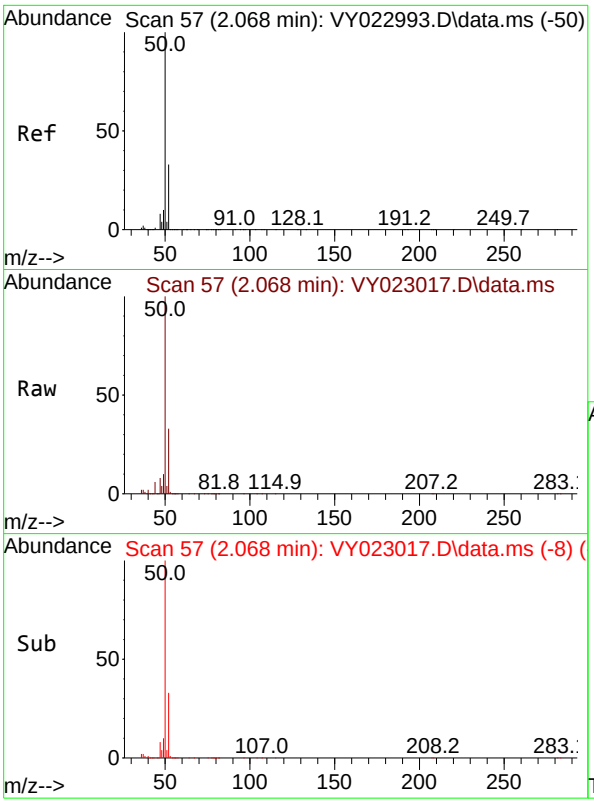


#2
Dichlorodifluoromethane
Concen: 19.987 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 85 Resp: 70825

Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.0	47.9





#3
Chloromethane
Concen: 22.084 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

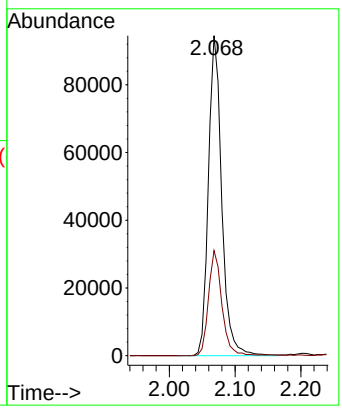
Tgt Ion: 50 Resp: 13306

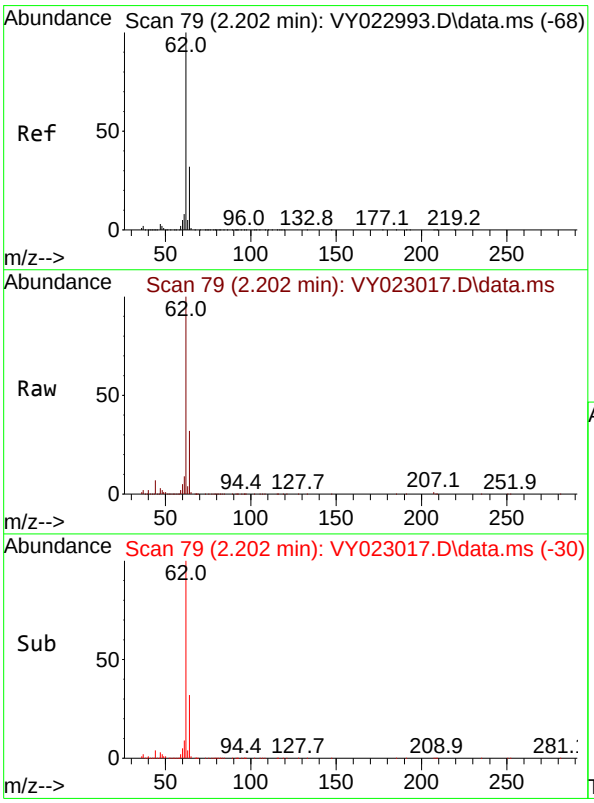
Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

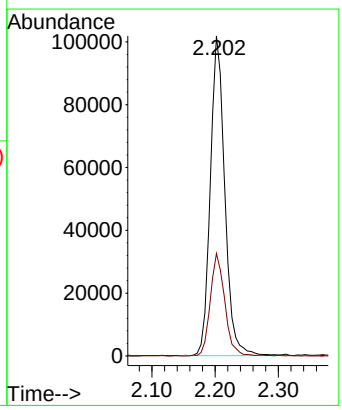


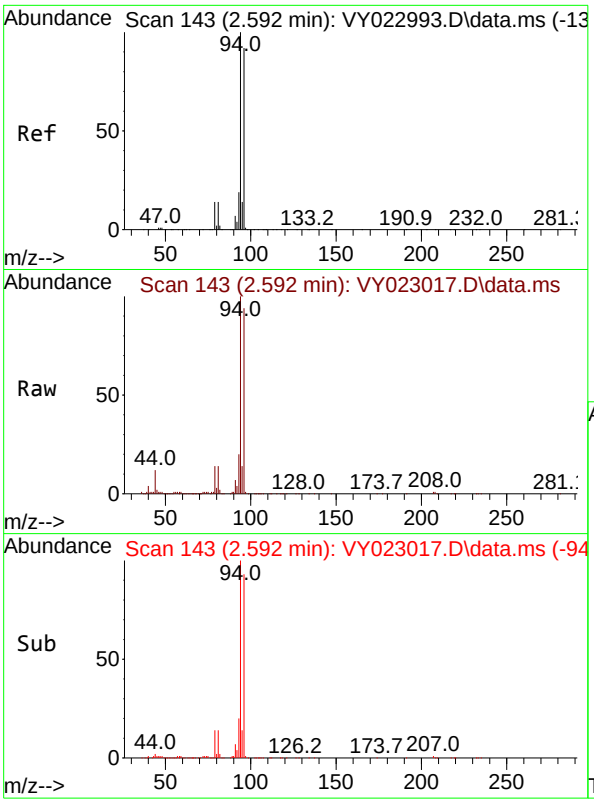


#4
Vinyl Chloride
Concen: 21.239 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 62 Resp: 162134

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.2	37.8





#5
Bromomethane
Concen: 24.332 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

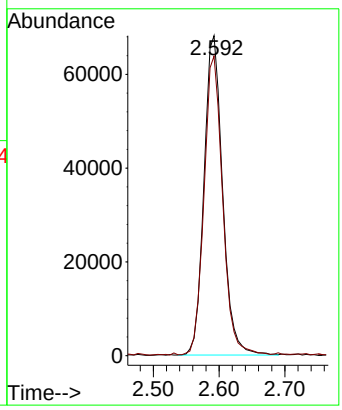
Tgt Ion: 94 Resp: 13405

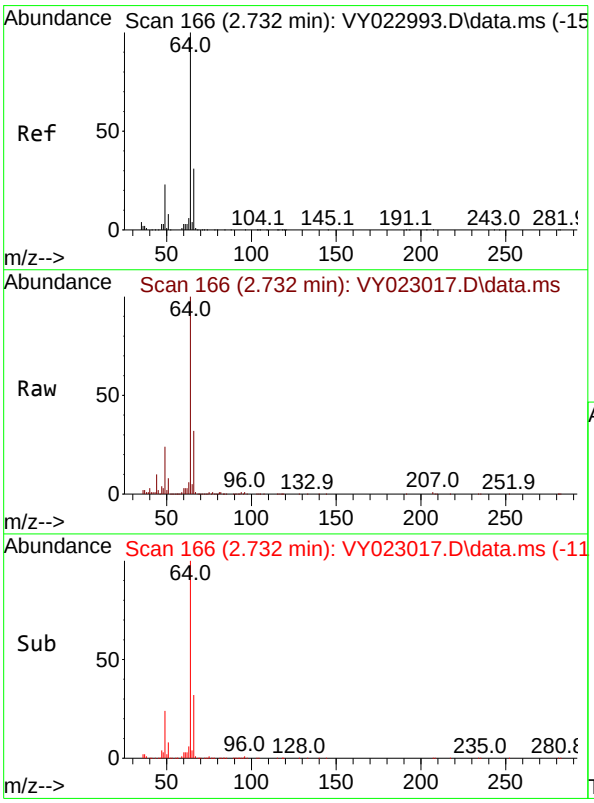
Ion	Ratio	Lower	Upper
94	100		
96	93.5	73.9	110.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

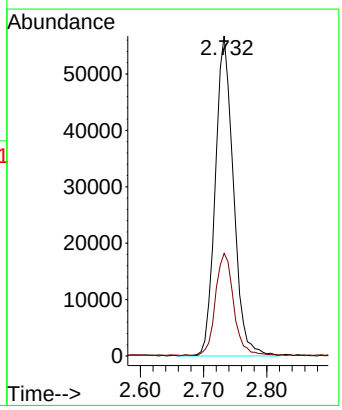


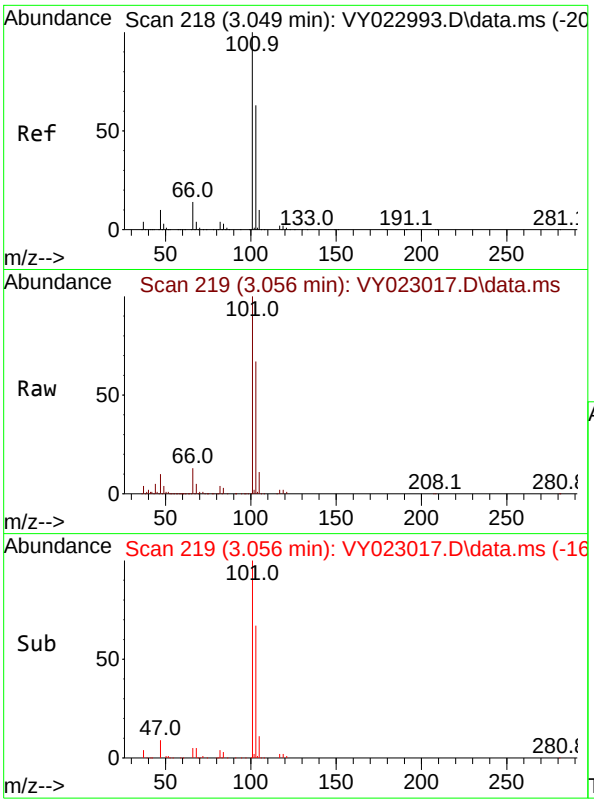


#6
Chloroethane
Concen: 22.159 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 64 Resp: 112975

Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.9	37.3

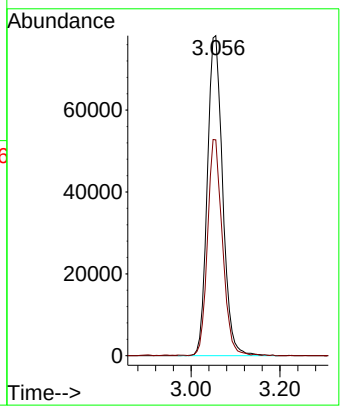




#7
Trichlorofluoromethane
Concen: 21.109 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:101 Resp: 18705

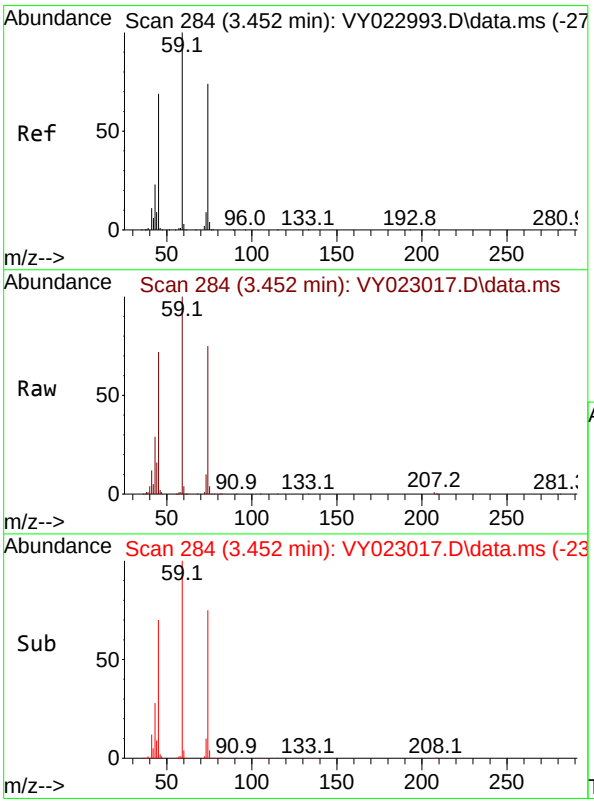
Ion	Ratio	Lower	Upper
101	100		
103	67.5	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

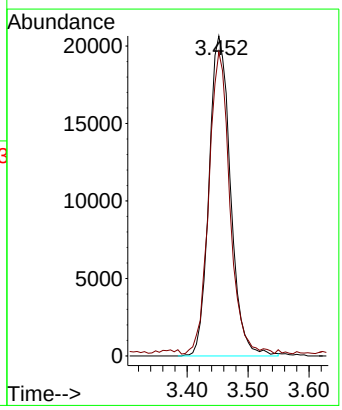
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

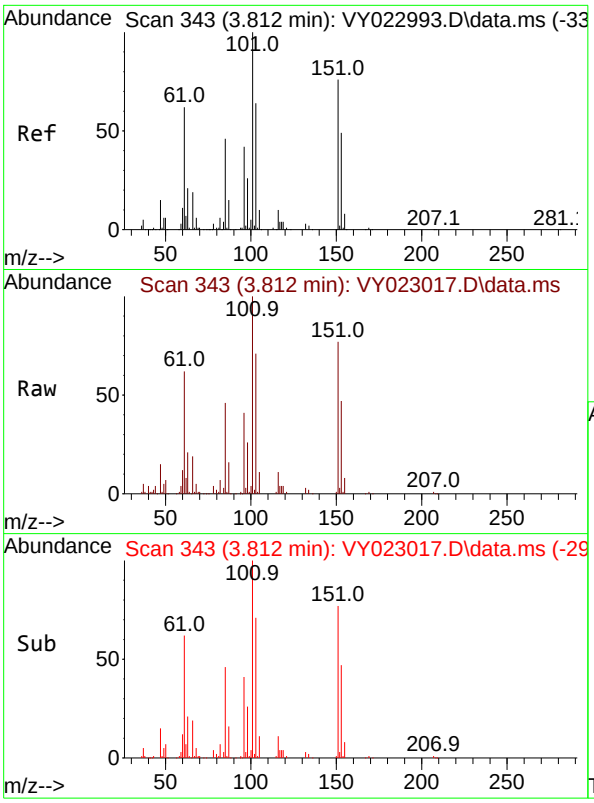


#8
Diethyl Ether
Concen: 21.776 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 74 Resp: 50505

Ion	Ratio	Lower	Upper
74	100		
45	92.6	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.338 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

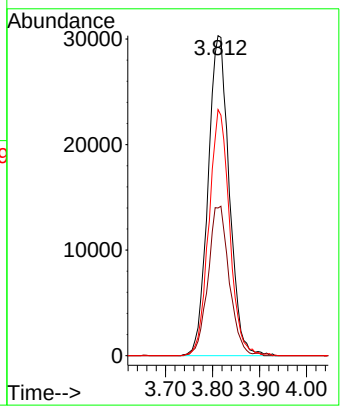
Tgt Ion:101 Resp: 9467

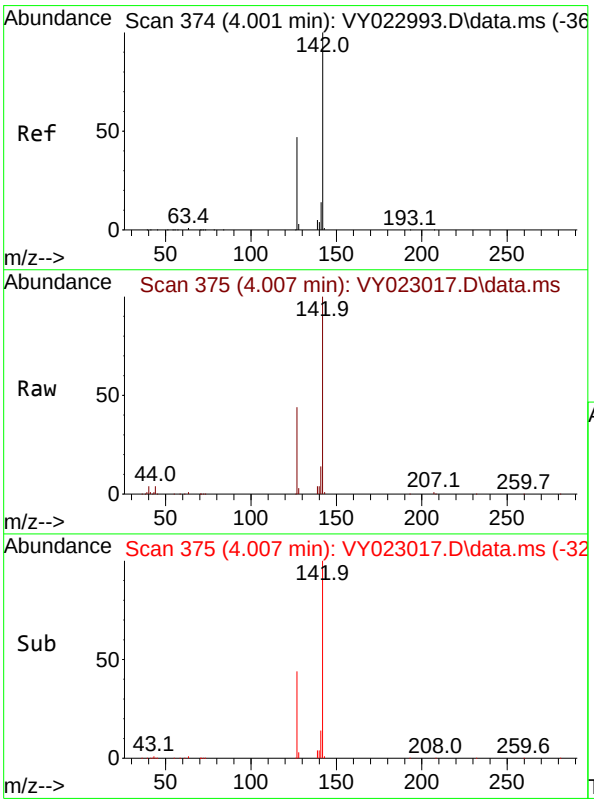
Ion	Ratio	Lower	Upper
101	100		
85	46.7	37.2	55.8
151	75.2	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

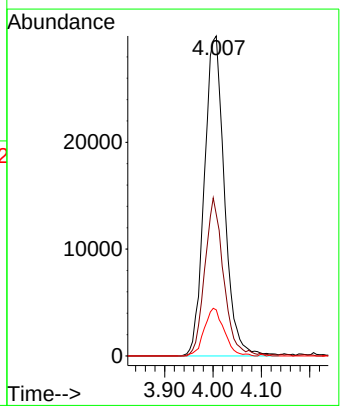


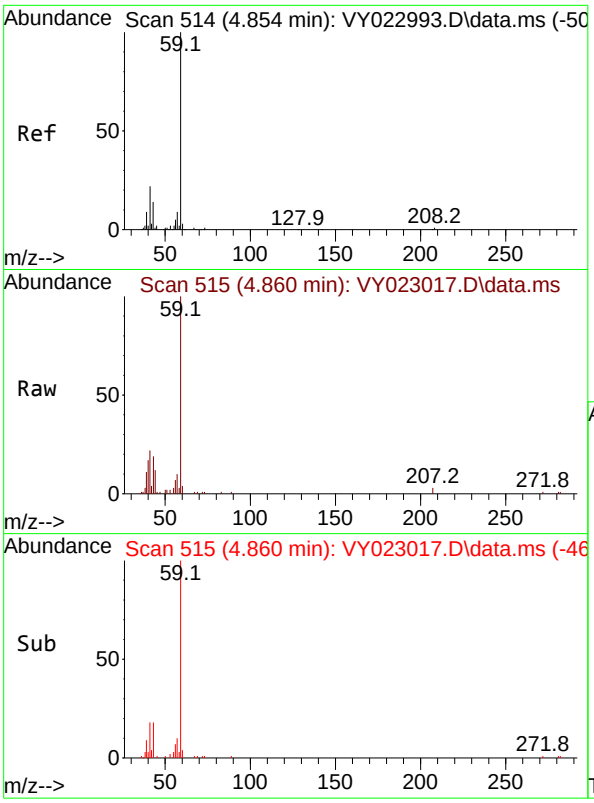


#10
Methyl Iodide
Concen: 17.919 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:142 Resp: 86654

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.0	55.6
141	14.7	11.4	17.2

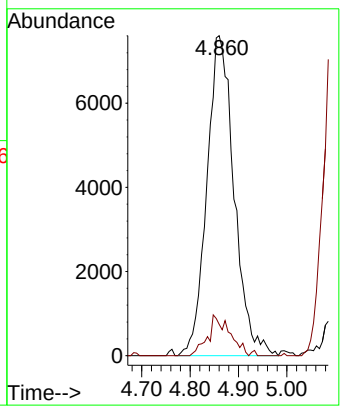




#11
Tert butyl alcohol
Concen: 116.404 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 59 Resp: 2974

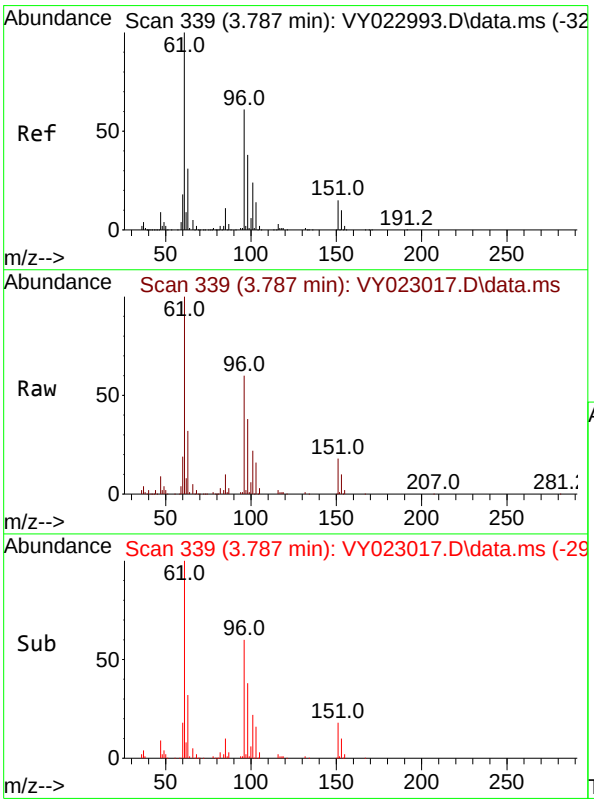
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

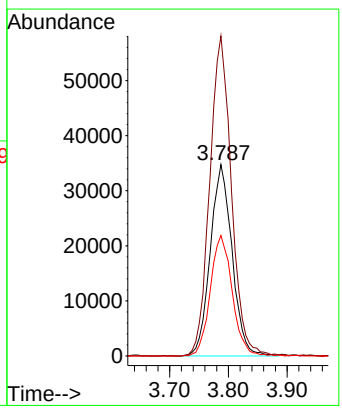
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

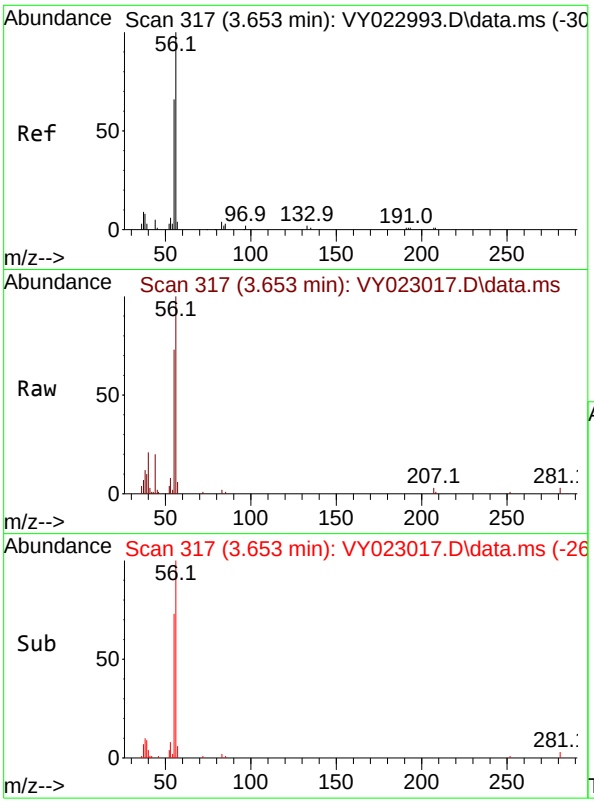


#12
1,1-Dichloroethene
Concen: 20.221 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 96 Resp: 89671

Ion	Ratio	Lower	Upper
96	100		
61	167.3	130.4	195.6
98	63.0	49.6	74.4





#13
Acrolein
Concen: 155.460 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

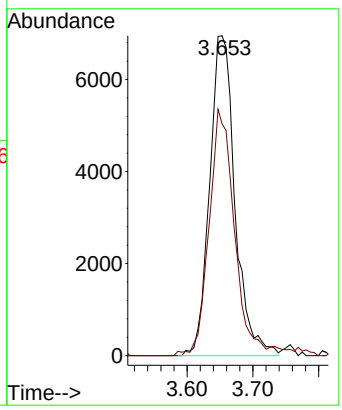
Tgt Ion: 56 Resp: 1866

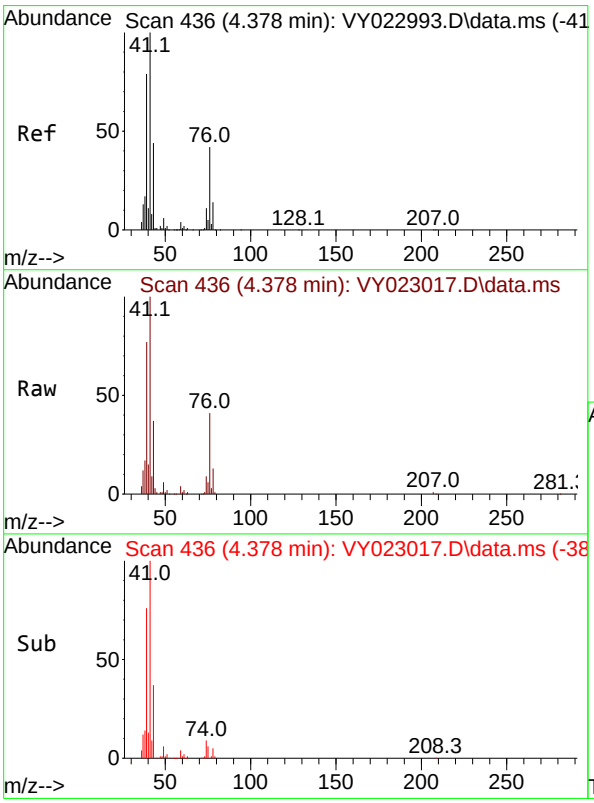
Ion	Ratio	Lower	Upper
56	100		
55	76.1	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

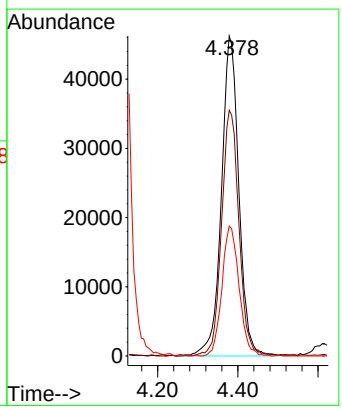


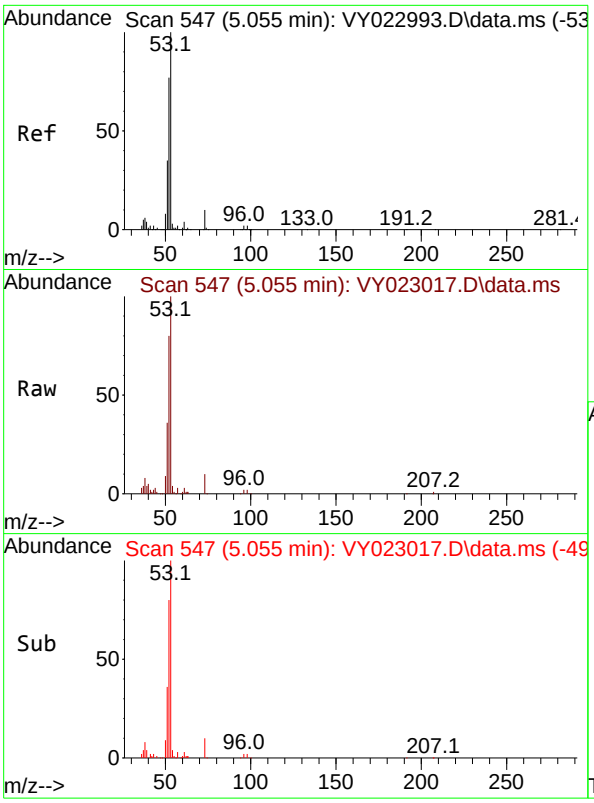


#14
Allyl chloride
Concen: 20.628 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 41 Resp: 139366

Ion	Ratio	Lower	Upper
41	100		
39	76.0	60.1	90.1
76	40.0	32.2	48.4





#15
Acrylonitrile
Concen: 117.367 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

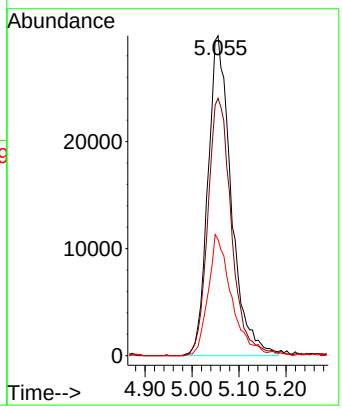
Tgt Ion: 53 Resp: 10310

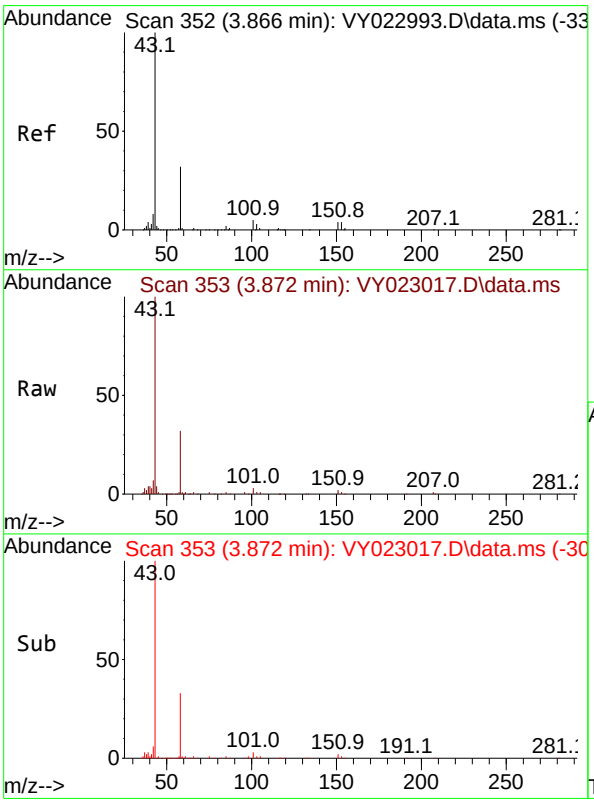
Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.2	97.8
51	37.8	30.3	45.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

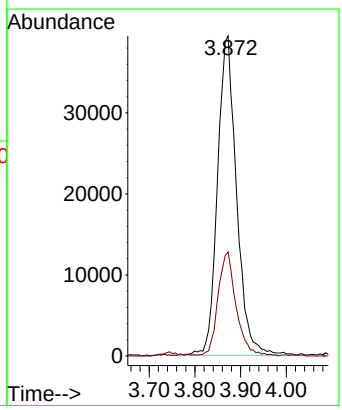


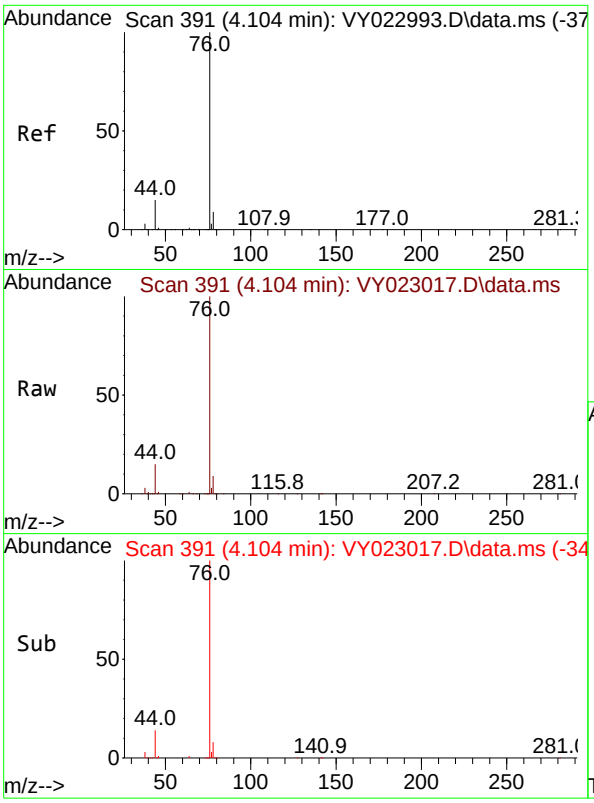


#16
Acetone
Concen: 148.622 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 43 Resp: 113819

Ion	Ratio	Lower	Upper
43	100		
58	32.5	26.2	39.4





#17
Carbon Disulfide
Concen: 20.880 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

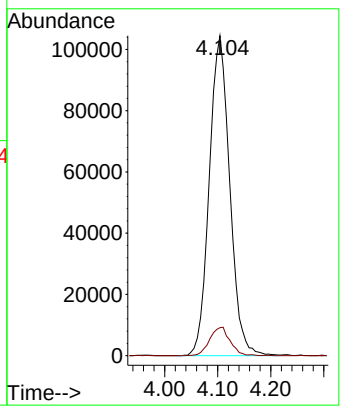
Tgt Ion: 76 Resp: 28063

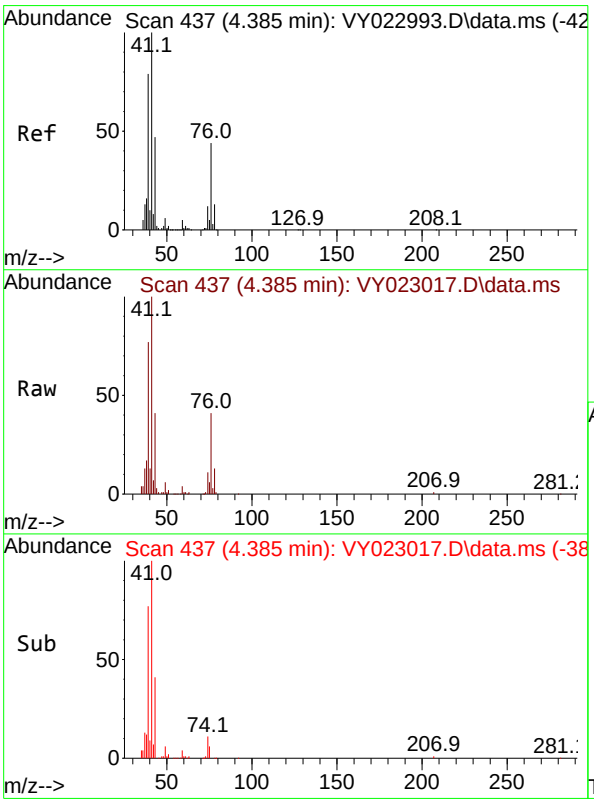
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

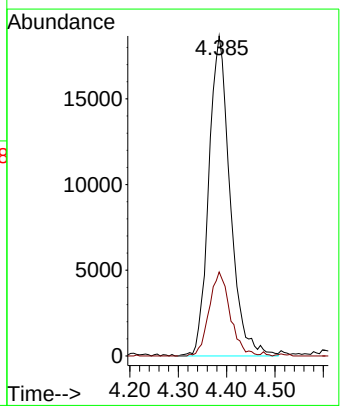


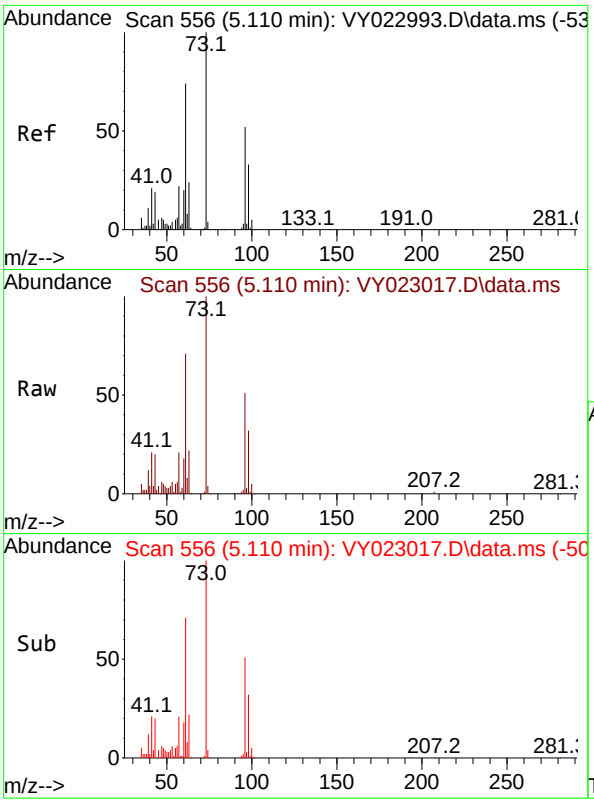


#18
Methyl Acetate
Concen: 22.037 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 43 Resp: 57135

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.1	30.1





#19
Methyl tert-butyl Ether
Concen: 21.924 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

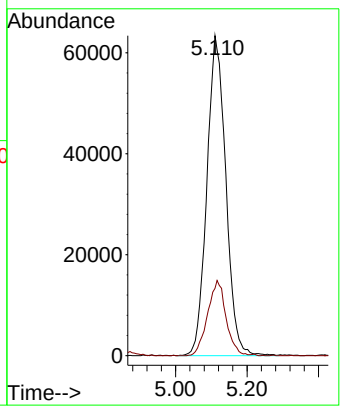
Tgt Ion: 73 Resp: 23320

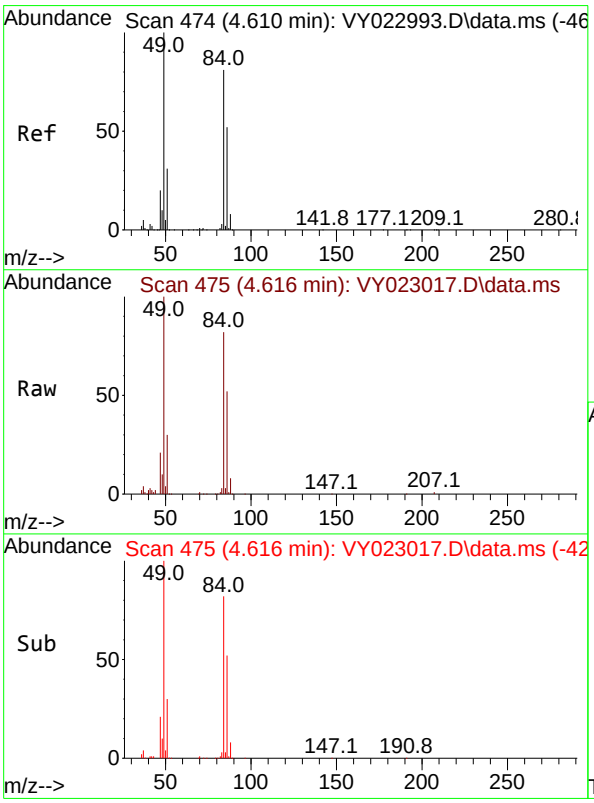
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

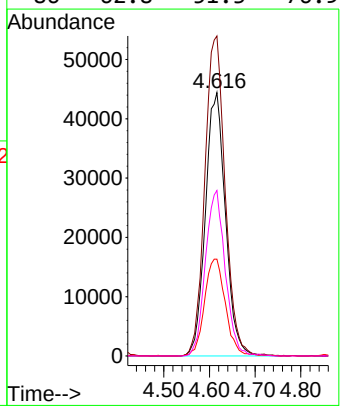


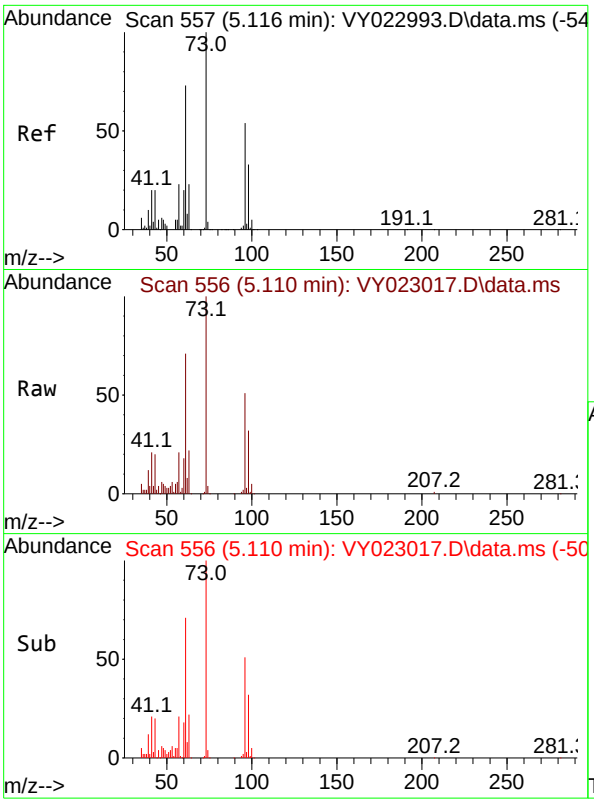


#20
Methylene Chloride
Concen: 20.247 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 84 Resp: 135775

Ion	Ratio	Lower	Upper
84	100		
49	121.5	98.2	147.4
51	36.7	30.5	45.7
86	62.8	51.3	76.9

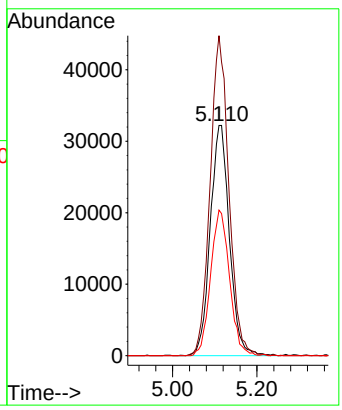




#21
trans-1,2-Dichloroethene
Concen: 20.564 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 96 Resp: 10151

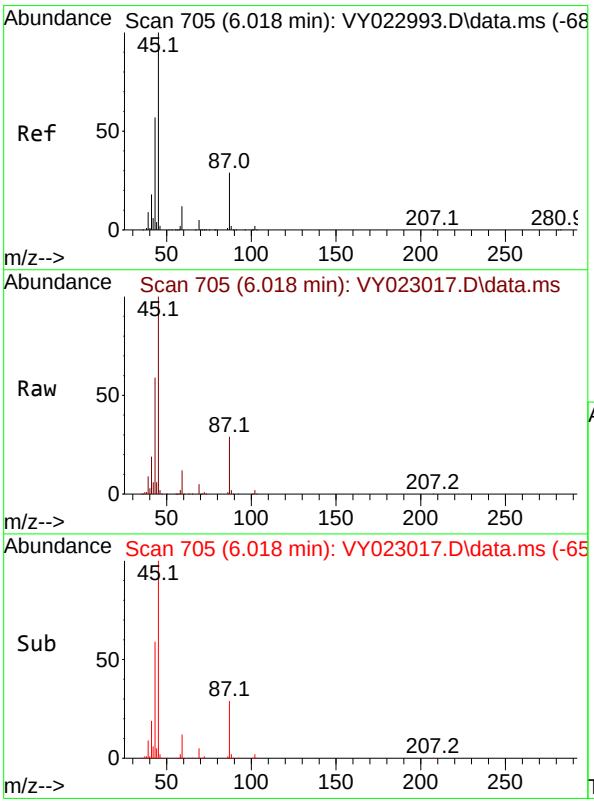
Ion	Ratio	Lower	Upper
96	100		
61	139.0	107.4	161.2
98	63.3	49.3	73.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

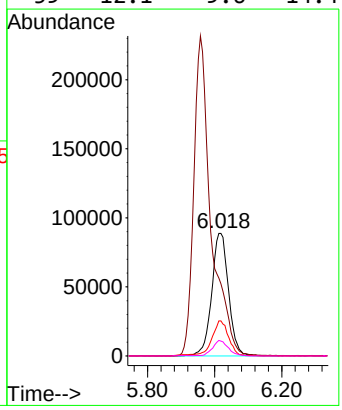
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

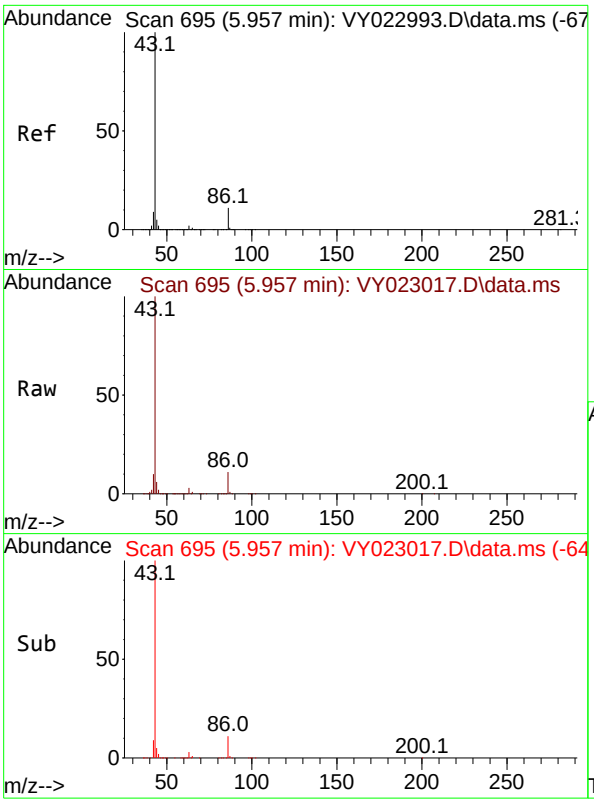


#22
Diisopropyl ether
Concen: 21.560 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 45 Resp: 309021

Ion	Ratio	Lower	Upper
45	100		
43	58.6	45.3	67.9
87	28.6	23.3	34.9
59	12.1	9.6	14.4





#23
Vinyl Acetate
Concen: 114.473 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

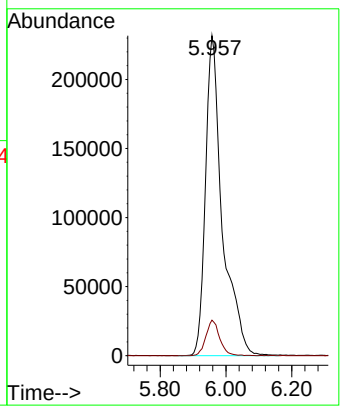
Tgt Ion: 43 Resp: 82670

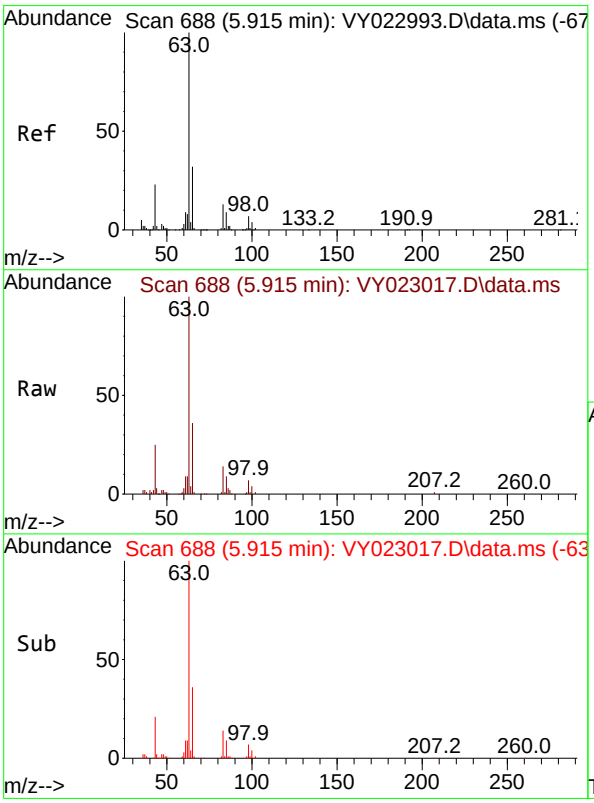
Ion	Ratio	Lower	Upper
43	100		
86	11.1	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

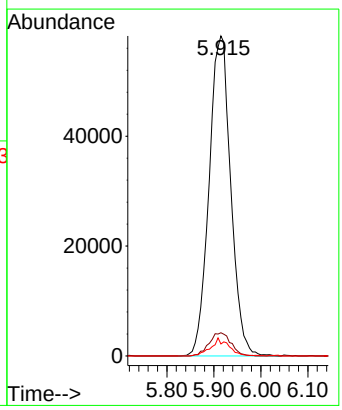


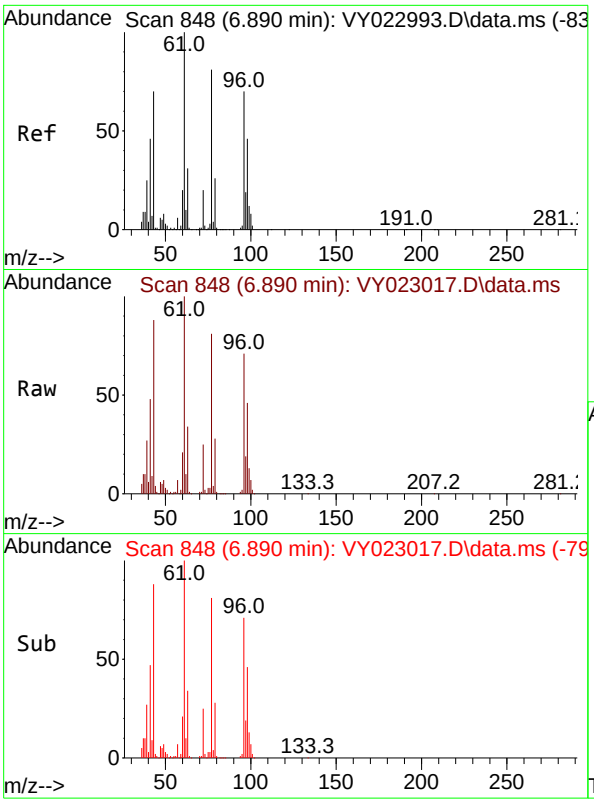


#24
1,1-Dichloroethane
Concen: 20.752 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 63 Resp: 186822

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.5	10.5
100	3.7	2.1	6.2





#25
2-Butanone
Concen: 130.833 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

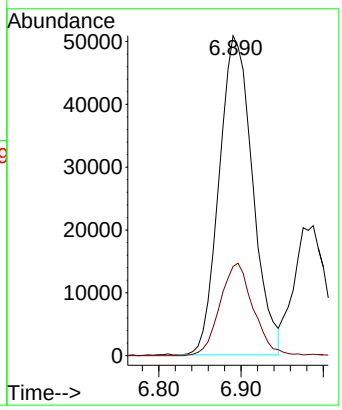
Tgt Ion: 43 Resp: 14373

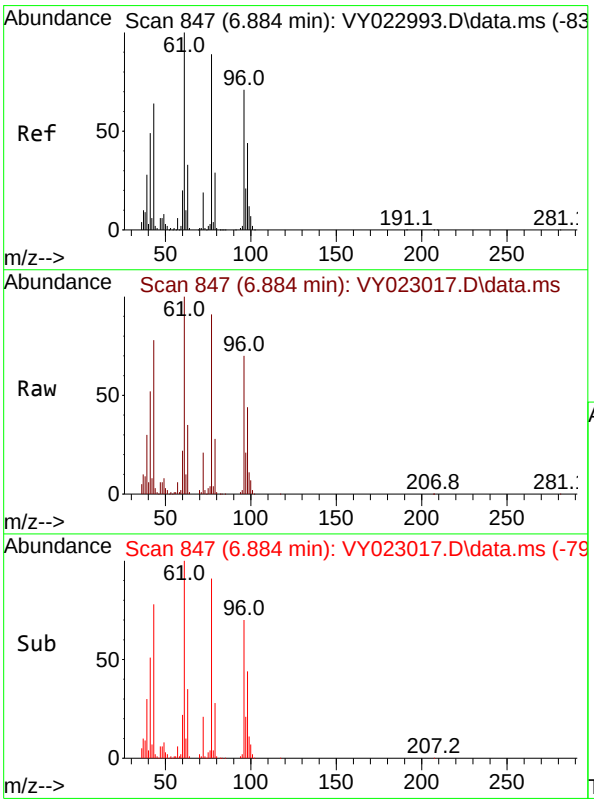
Ion	Ratio	Lower	Upper
43	100		
72	28.0	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

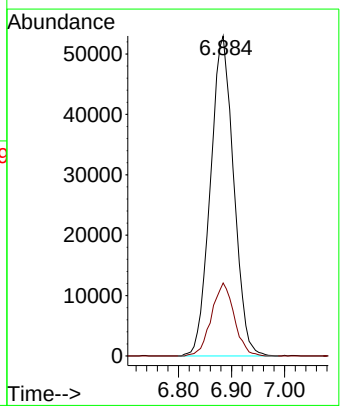


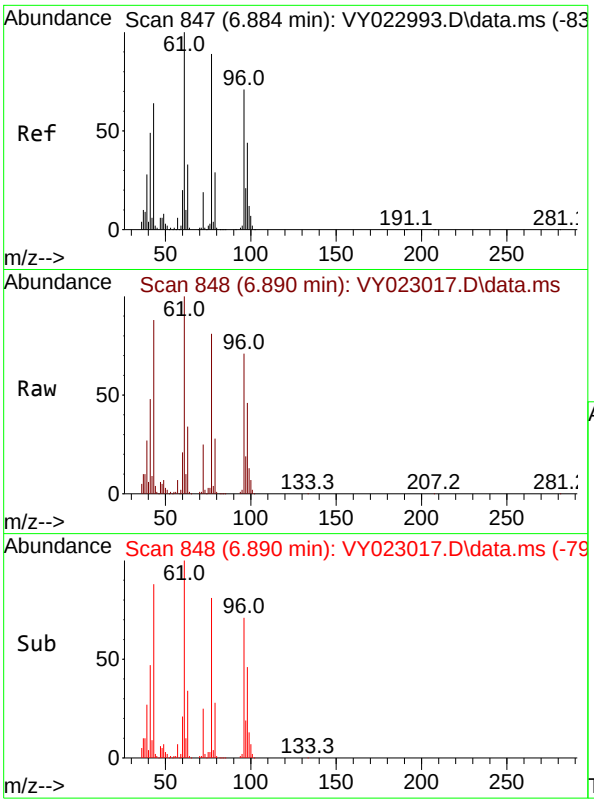


#26
2,2-Dichloropropane
Concen: 20.489 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 77 Resp: 161660

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 20.419 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

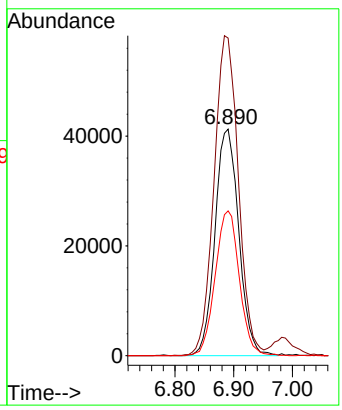
Tgt Ion: 96 Resp: 11616

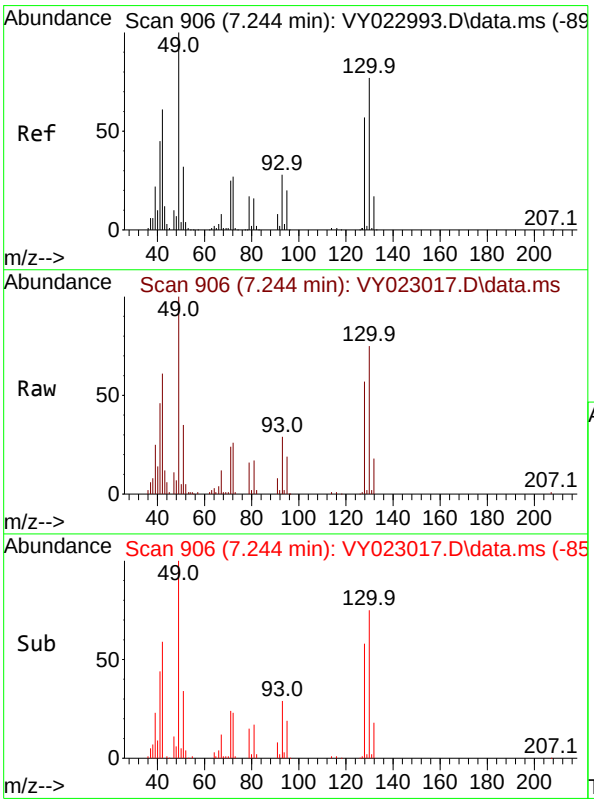
Ion	Ratio	Lower	Upper
96	100		
61	144.8	0.0	286.2
98	64.9	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

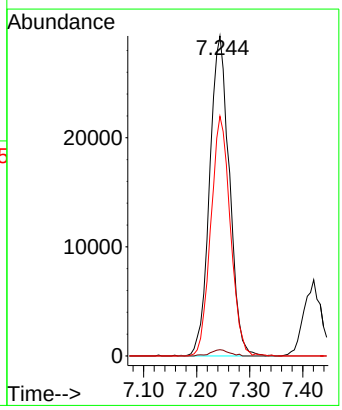


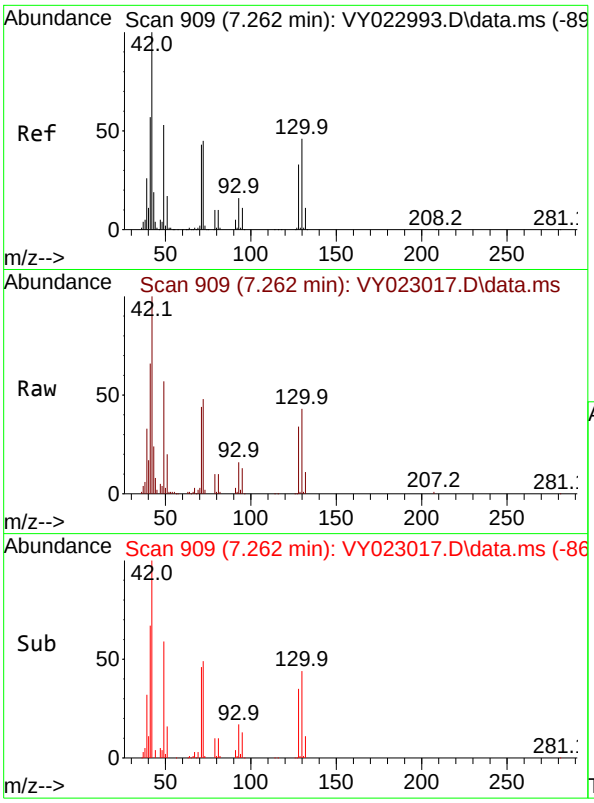


#28
Bromochloromethane
Concen: 21.693 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 49 Resp: 75745

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	74.0	61.8	92.8

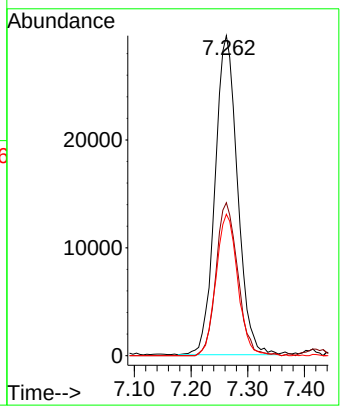




#29
Tetrahydrofuran
Concen: 117.116 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 42 Resp: 8146

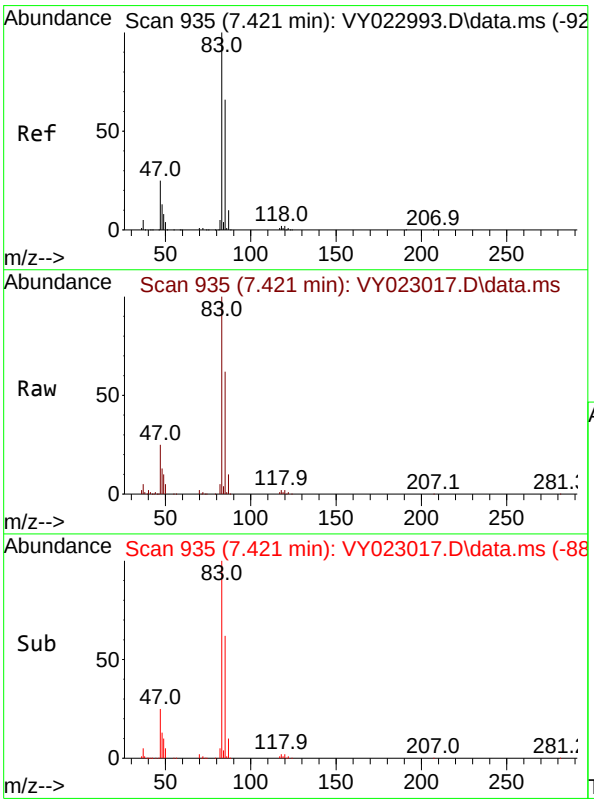
Ion	Ratio	Lower	Upper
42	100		
72	46.4	37.5	56.3
71	42.9	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

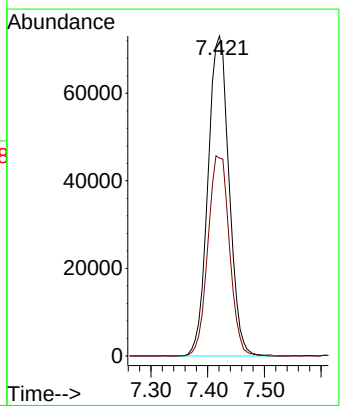
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

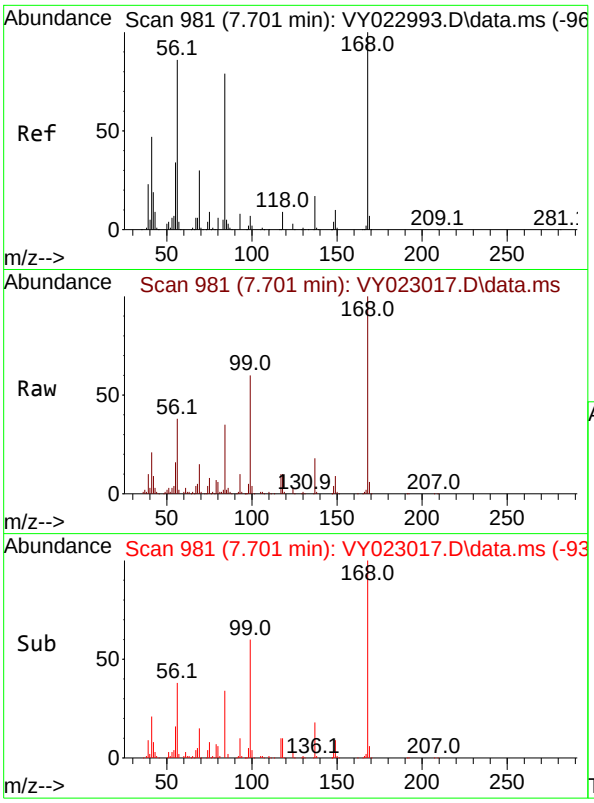


#30
Chloroform
Concen: 20.824 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 83 Resp: 189111

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.6	78.8





#31
Cyclohexane
Concen: 19.888 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

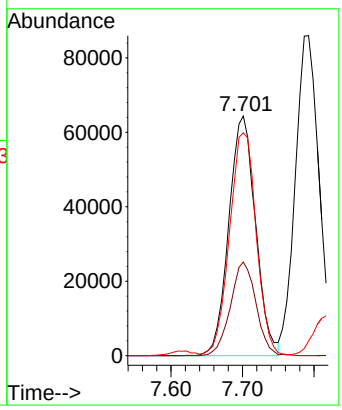
Tgt Ion: 56 Resp: 16729

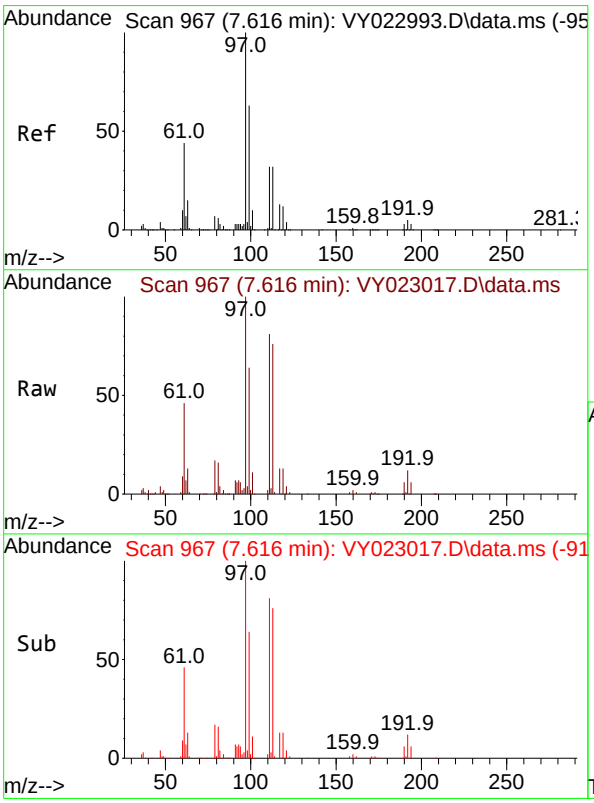
Ion	Ratio	Lower	Upper
56	100		
69	39.1	28.1	42.1
84	91.8	73.5	110.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

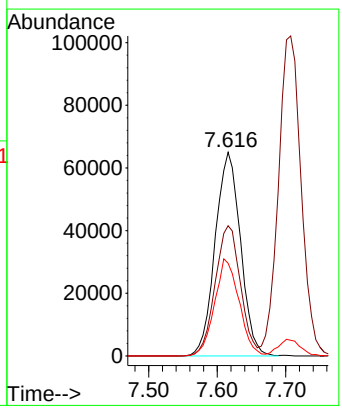


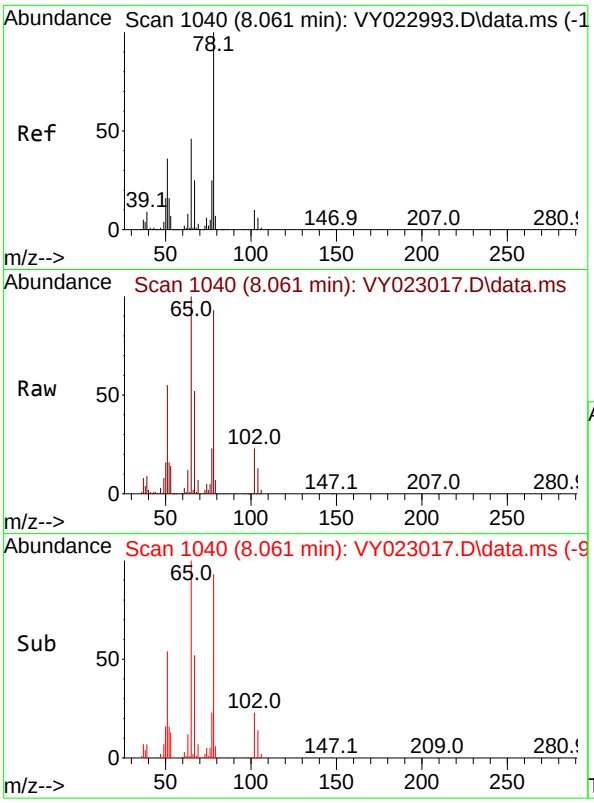


#32
1,1,1-Trichloroethane
Concen: 20.240 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 97 Resp: 166781

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	46.2	36.1	54.1

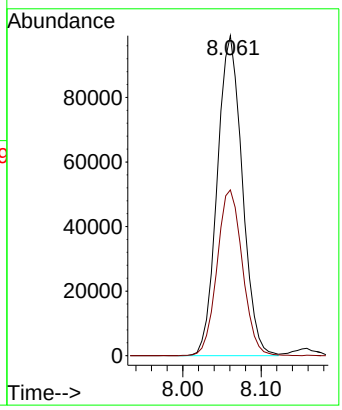




#33
1,2-Dichloroethane-d4
Concen: 52.047 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 65 Resp: 21988

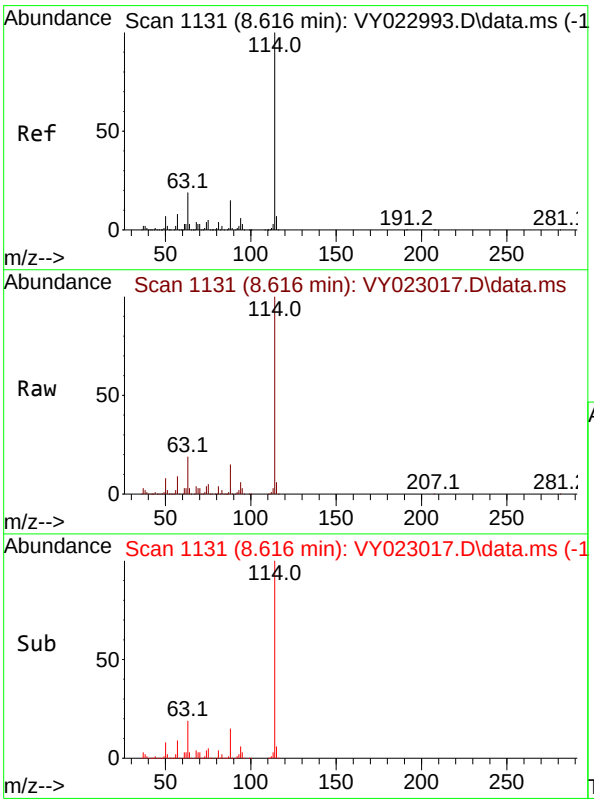
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	107.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

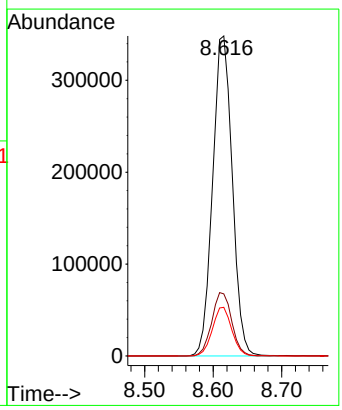
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

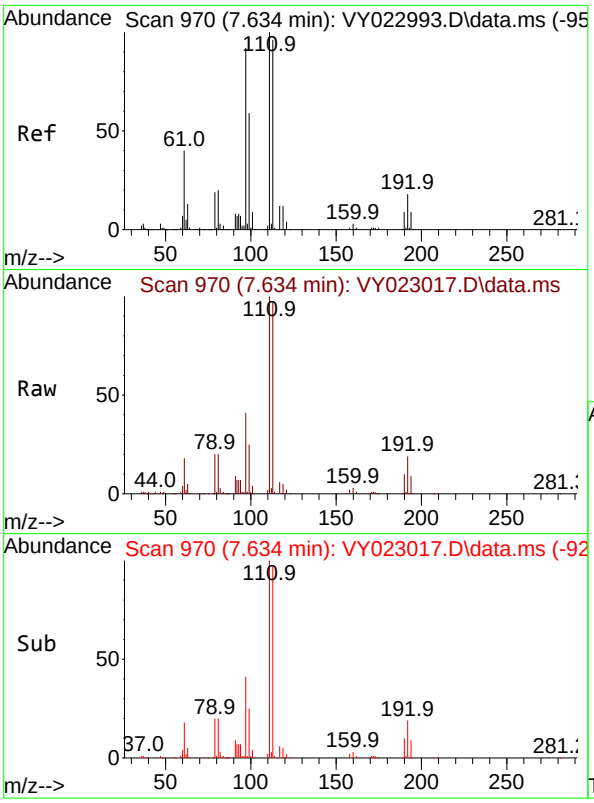


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:114 Resp: 691452

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.8
88	15.2	0.0	30.2

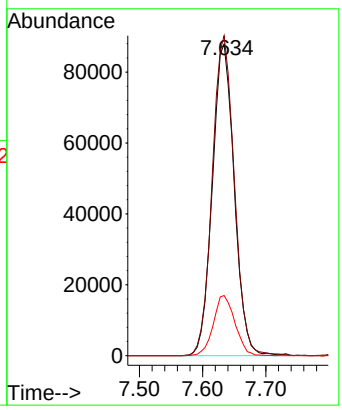




#35
Dibromofluoromethane
Concen: 48.092 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:113 Resp: 21093

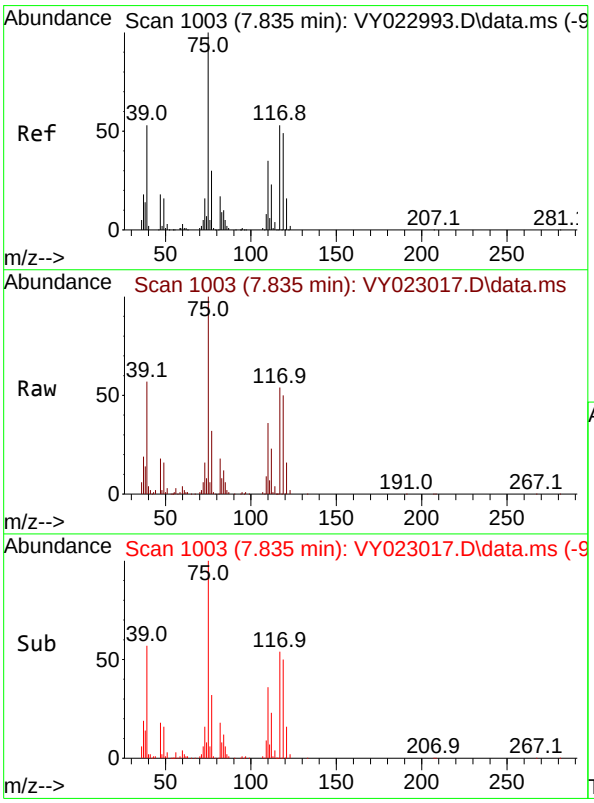
Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.2	124.8
192	19.1	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

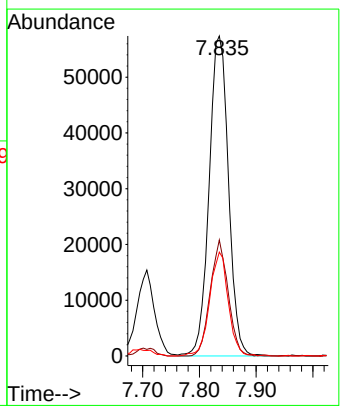
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

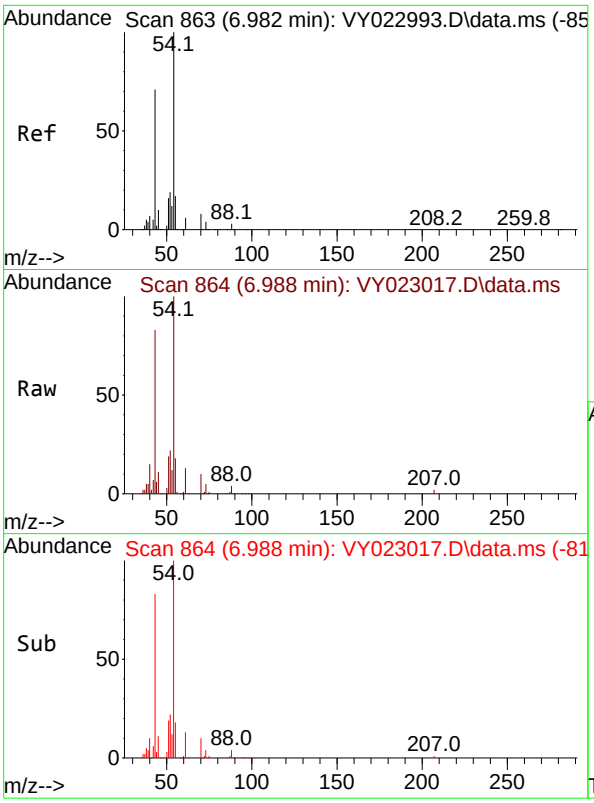


#36
1,1-Dichloropropene
Concen: 19.704 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 136134

Ion	Ratio	Lower	Upper
75	100		
110	33.6	17.3	51.9
77	31.1	24.6	37.0





#37
Ethyl Acetate
Concen: 22.847 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

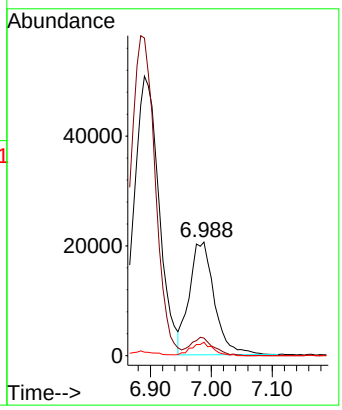
Tgt Ion: 43 Resp: 5862

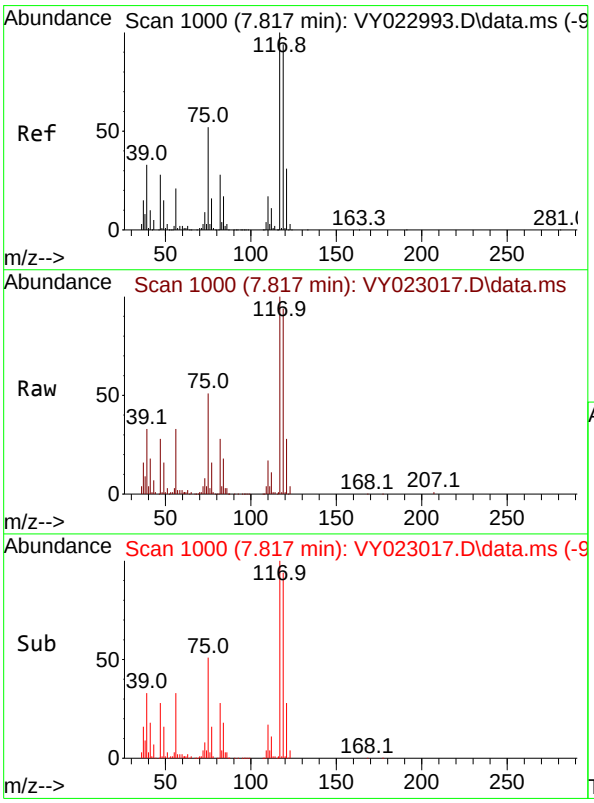
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.6	17.4
70	10.3	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

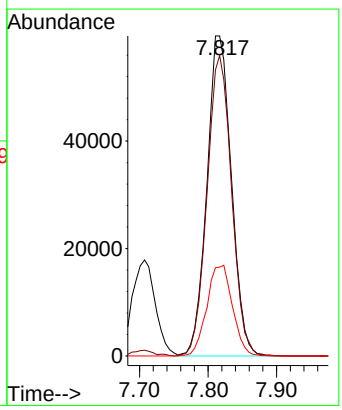


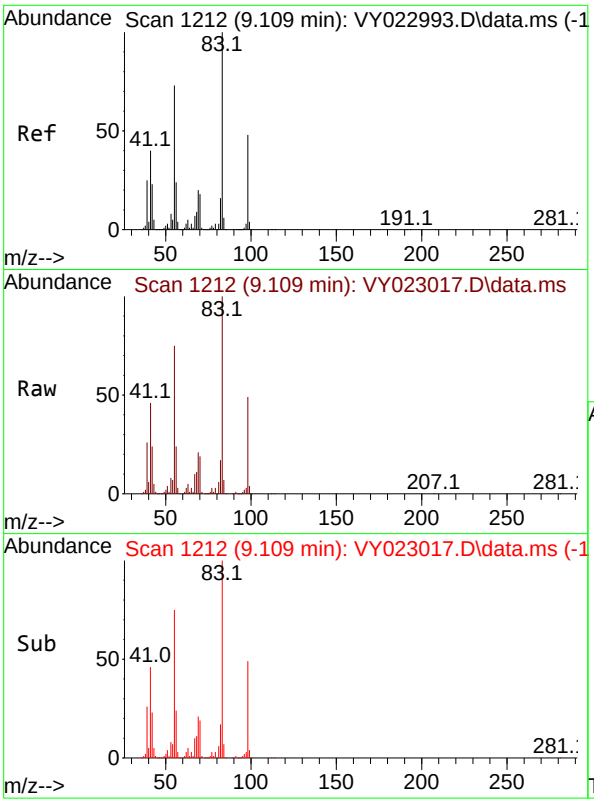


#38
Carbon Tetrachloride
Concen: 19.775 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:117 Resp: 148433

Ion	Ratio	Lower	Upper
117	100		
119	93.8	74.9	112.3
121	27.7	24.6	37.0





#39
Methylcyclohexane
Concen: 18.760 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

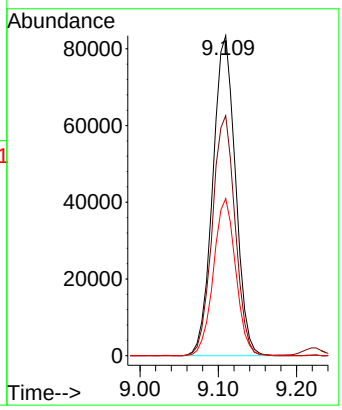
Tgt Ion: 83 Resp: 16776

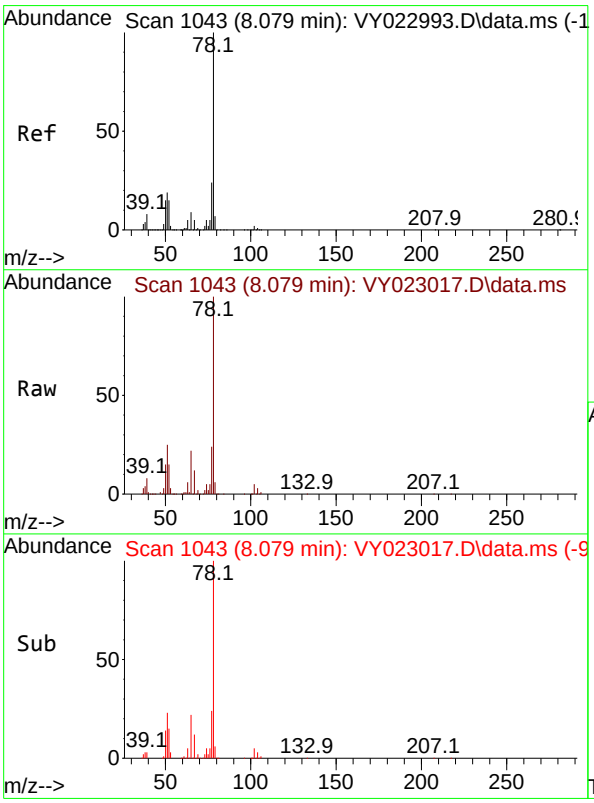
Ion	Ratio	Lower	Upper
83	100		
55	75.0	58.1	87.1
98	49.1	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

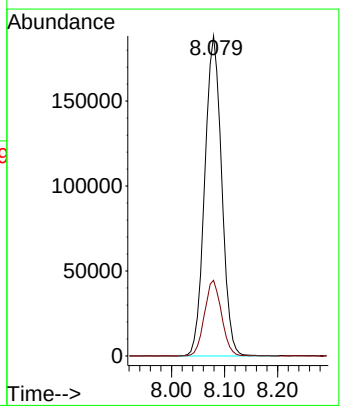


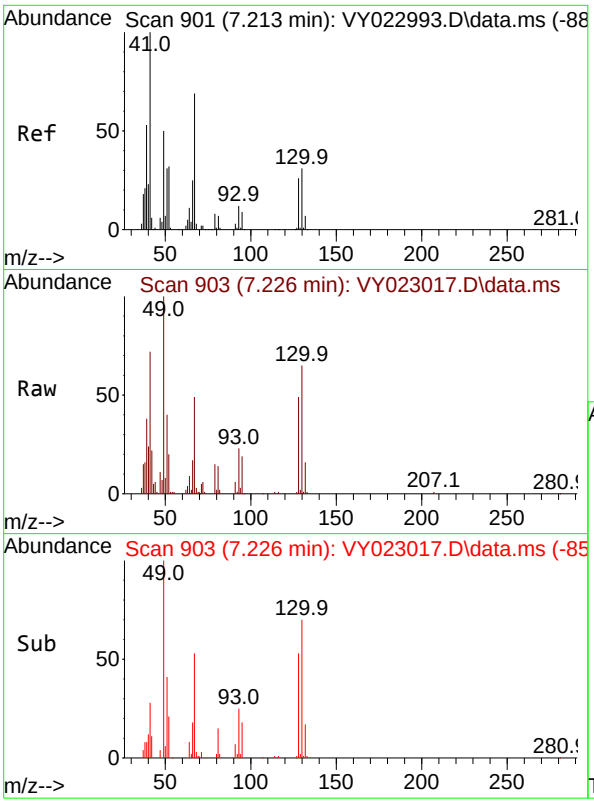


#40
Benzene
Concen: 20.095 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 78 Resp: 418020

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

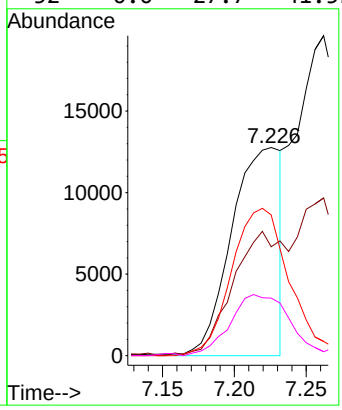




#41
Methacrylonitrile
Concen: 21.877 ug/l m
RT: 7.226 min Scan# 9(
Delta R.T. 0.012 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 41 Resp: 3058(

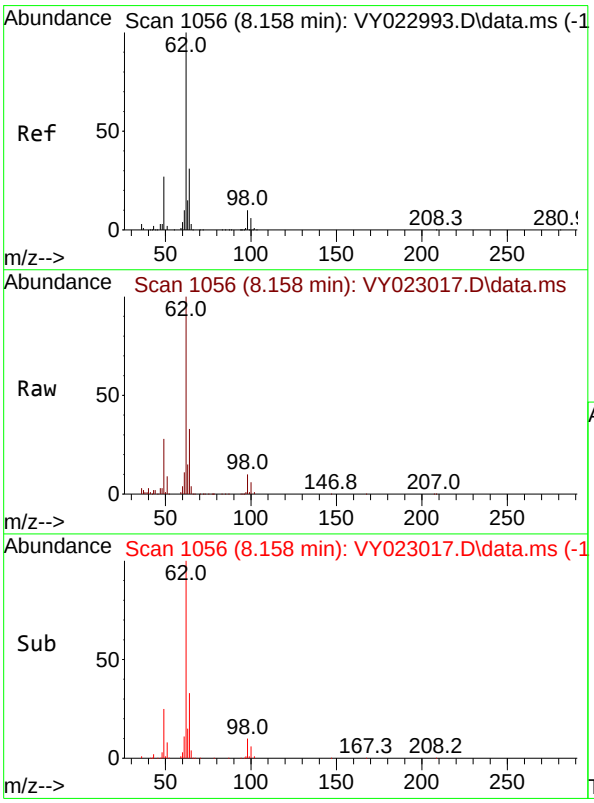
Ion	Ratio	Lower	Upper
41	100		
39	76.0	50.0	75.0#
67	0.0	65.4	98.2#
52	0.0	27.7	41.5#



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

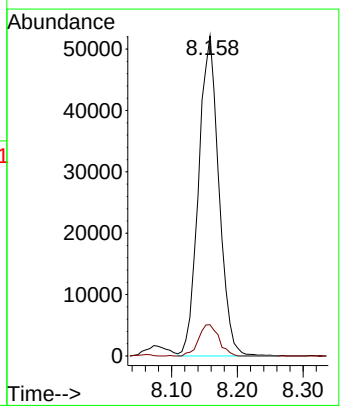
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

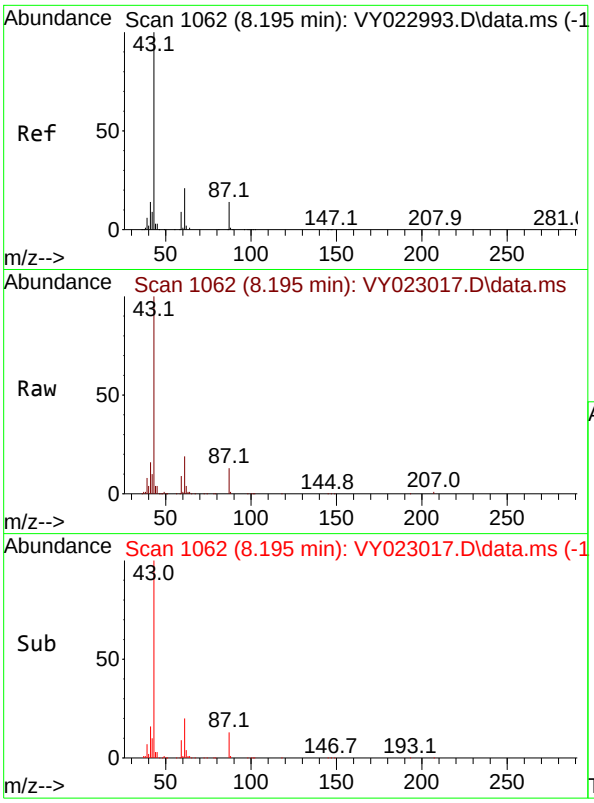


#42
1,2-Dichloroethane
Concen: 21.622 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 62 Resp: 111901

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0





#43
Isopropyl Acetate
Concen: 22.459 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

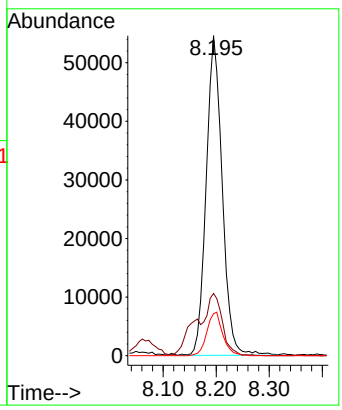
Tgt Ion: 43 Resp: 11447(

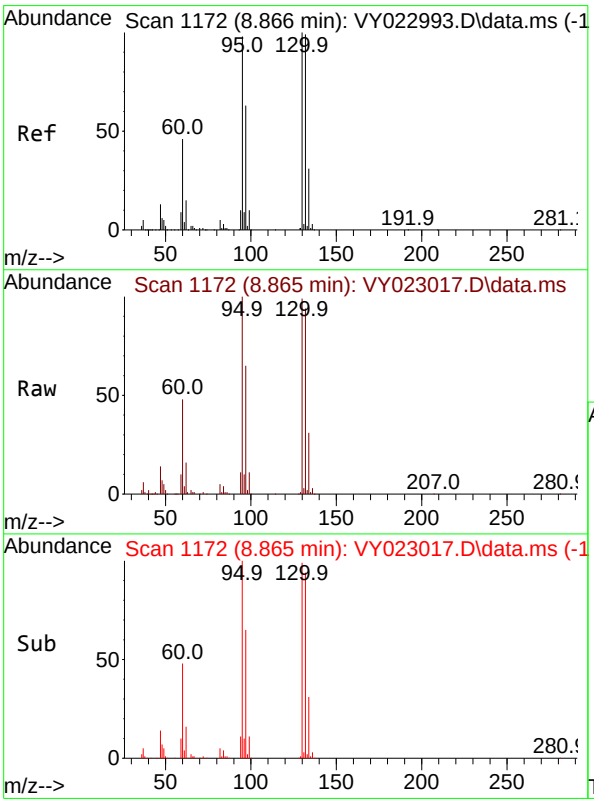
Ion	Ratio	Lower	Upper
43	100		
61	20.0	25.0	37.4#
87	13.5	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

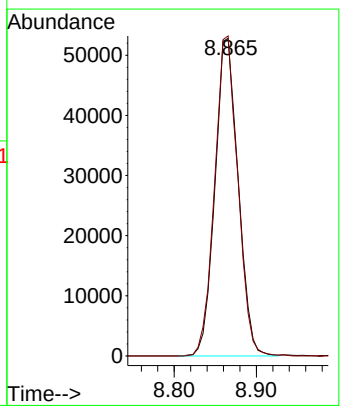


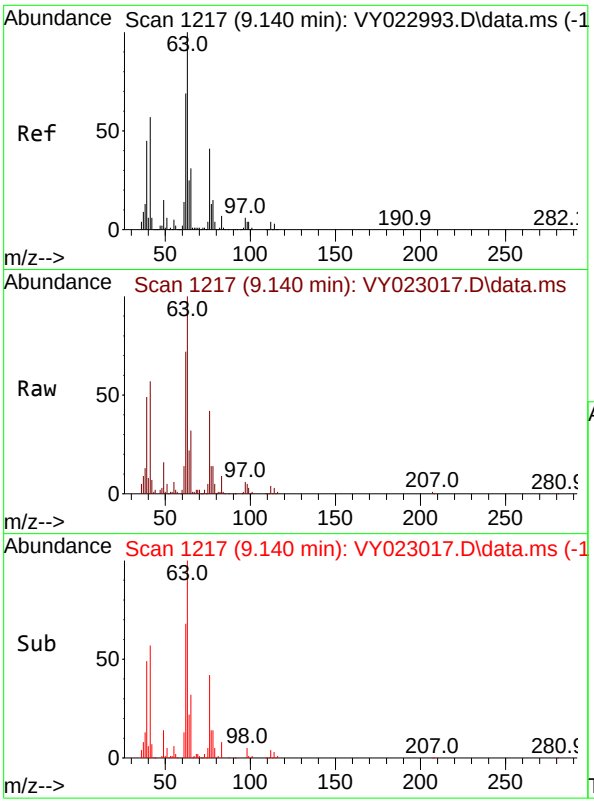


#44
Trichloroethene
Concen: 19.361 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:130 Resp: 103444

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	195.8

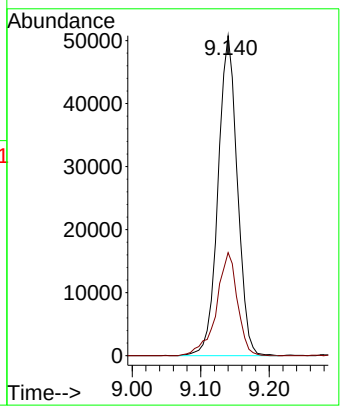




#45
1,2-Dichloropropane
Concen: 20.378 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 63 Resp: 9899

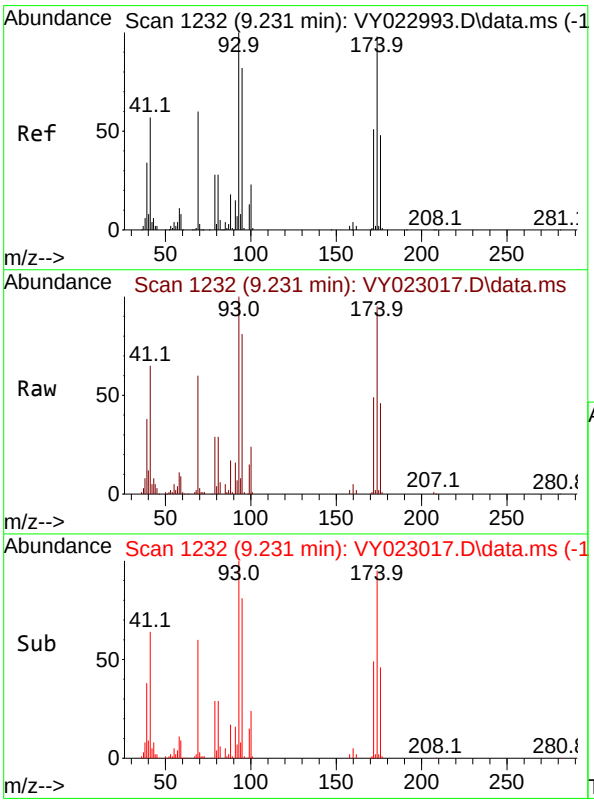
Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

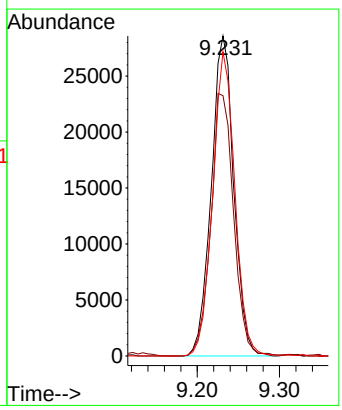
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

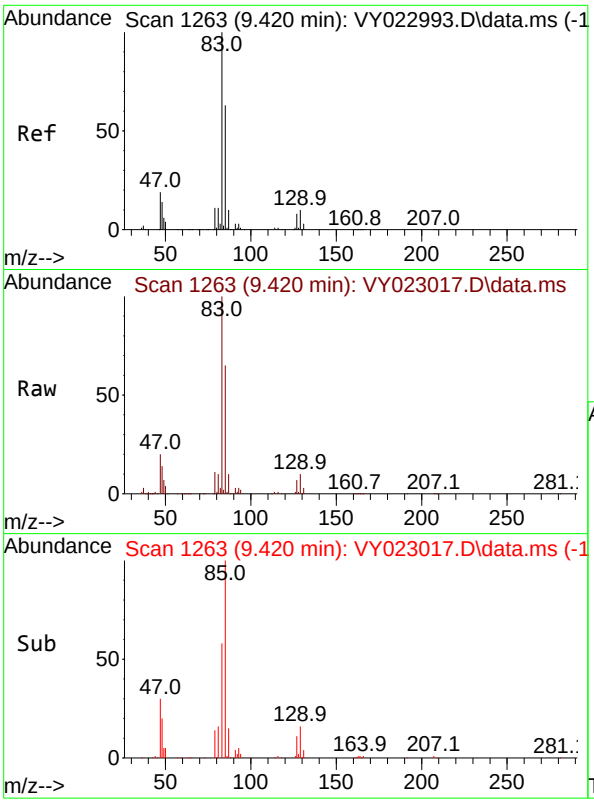


#46
Dibromomethane
Concen: 21.702 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 93 Resp: 54493

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.9	98.9
174	93.6	76.4	114.6

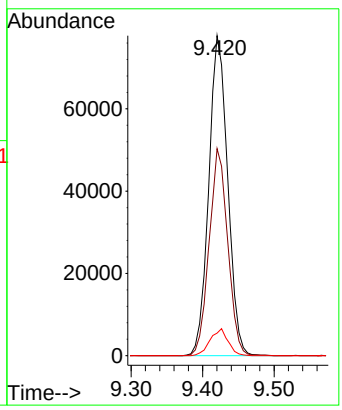




#47
Bromodichloromethane
Concen: 20.570 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 83 Resp: 14277

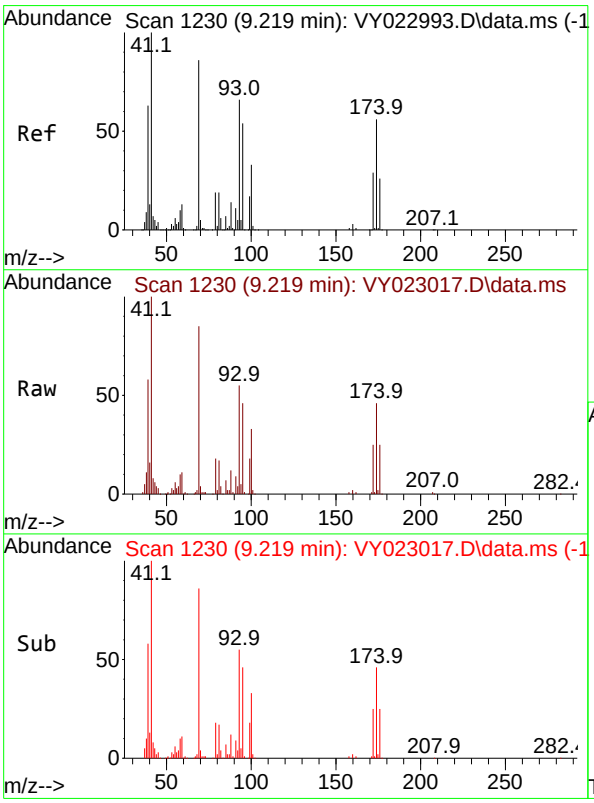
Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.6	75.8
127	7.0	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

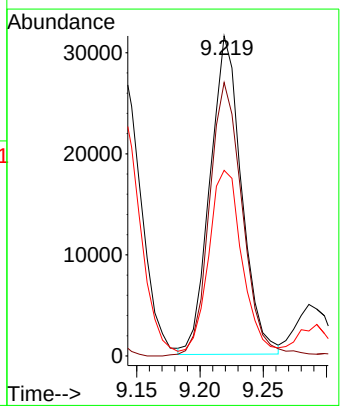
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

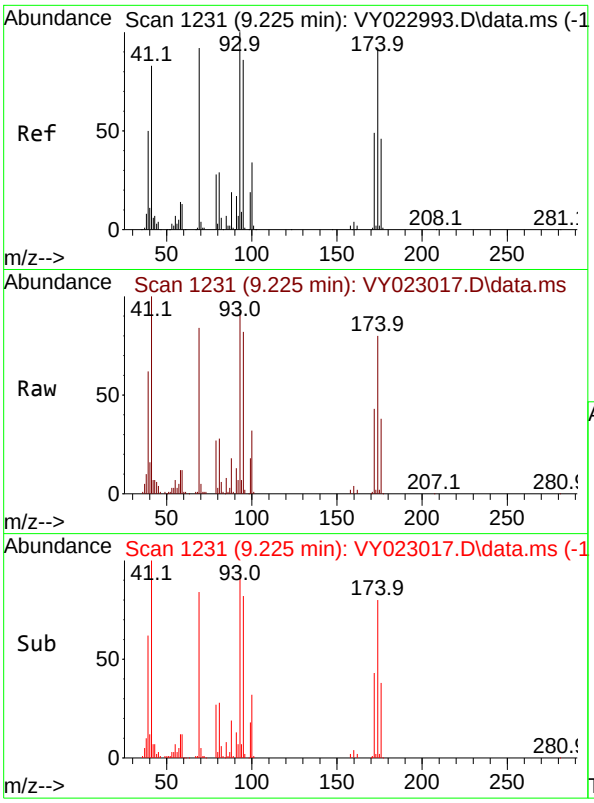


#48
Methyl methacrylate
Concen: 22.225 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 41 Resp: 54690

Ion	Ratio	Lower	Upper
41	100		
69	90.2	71.4	107.0
39	59.3	47.8	71.8





#49
1,4-Dioxane
Concen: 460.562 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

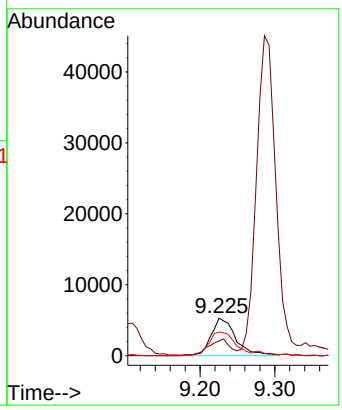
Tgt Ion: 88 Resp: 1219

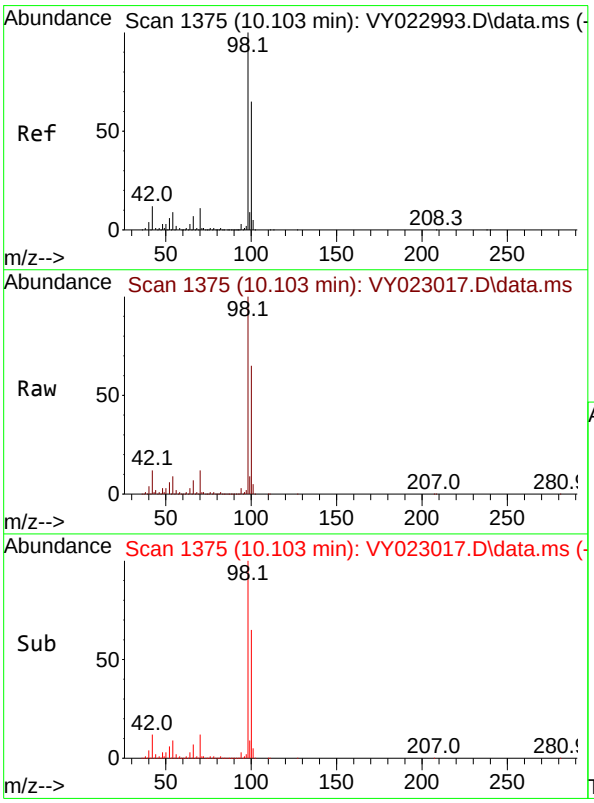
Ion	Ratio	Lower	Upper
88	100		
43	35.5	28.7	43.1
58	67.0	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

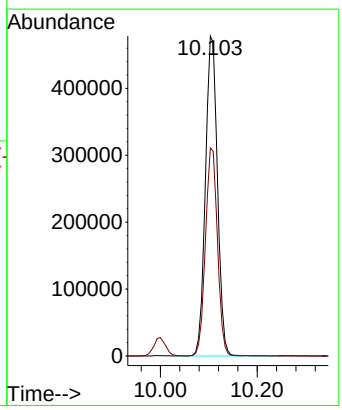


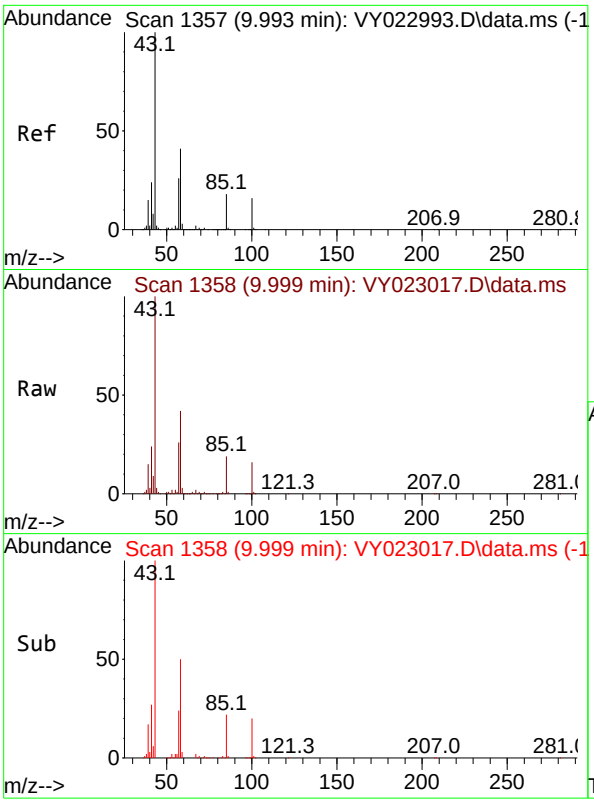


#50
Toluene-d8
Concen: 47.553 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 98 Resp: 827118

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 114.770 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

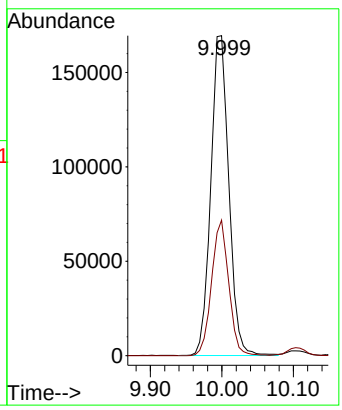
Tgt Ion: 43 Resp: 29691

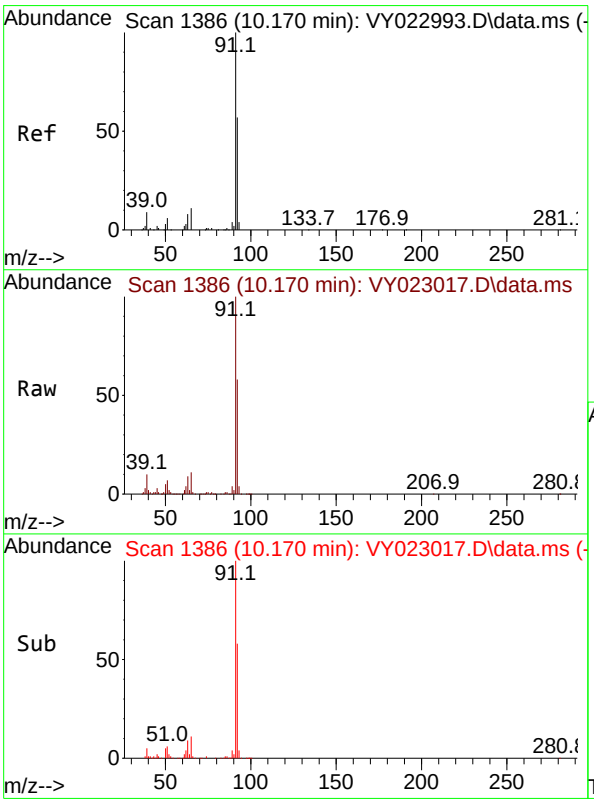
Ion	Ratio	Lower	Upper
43	100		
58	40.3	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

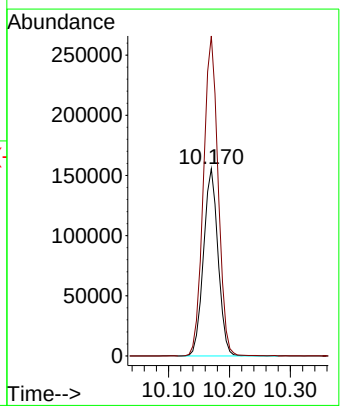


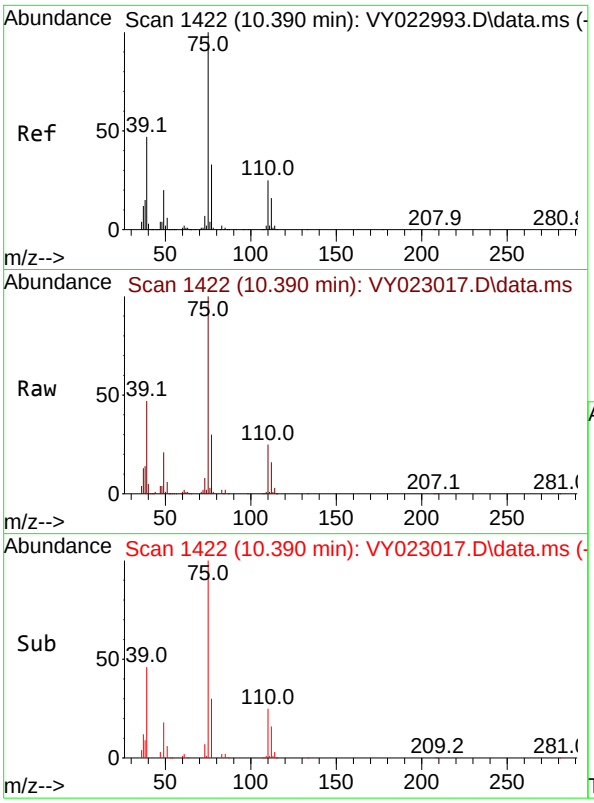


#52
Toluene
Concen: 19.975 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 92 Resp: 258346

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.8	206.6





#53
t-1,3-Dichloropropene
Concen: 20.756 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

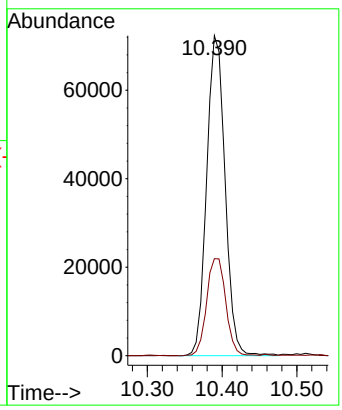
Tgt Ion: 75 Resp: 12366

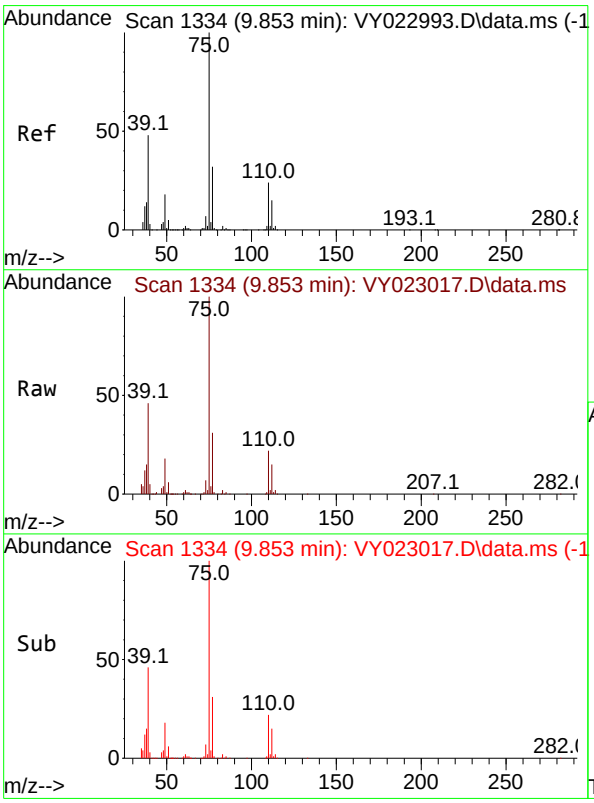
Ion	Ratio	Lower	Upper
75	100		
77	30.3	26.4	39.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

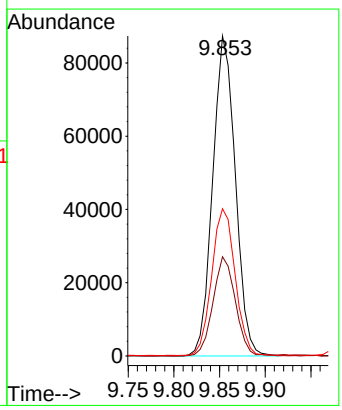


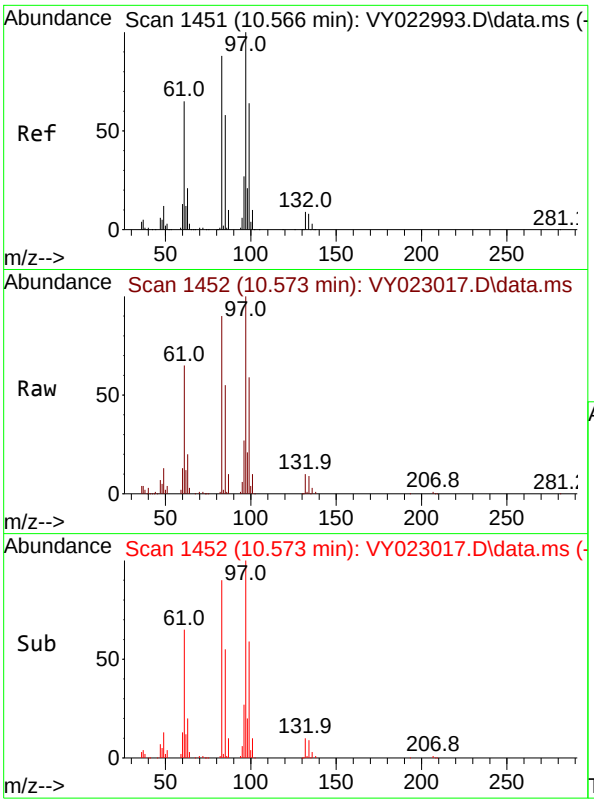


#54
cis-1,3-Dichloropropene
Concen: 20.967 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 150566

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.0
39	45.8	38.2	57.2

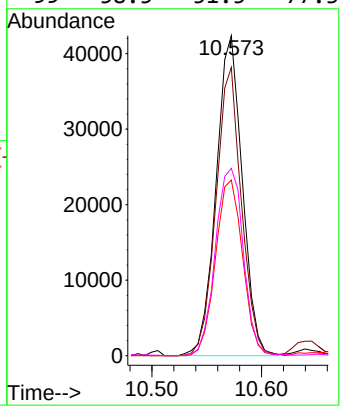




#55
1,1,2-Trichloroethane
Concen: 21.265 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 97 Resp: 7018

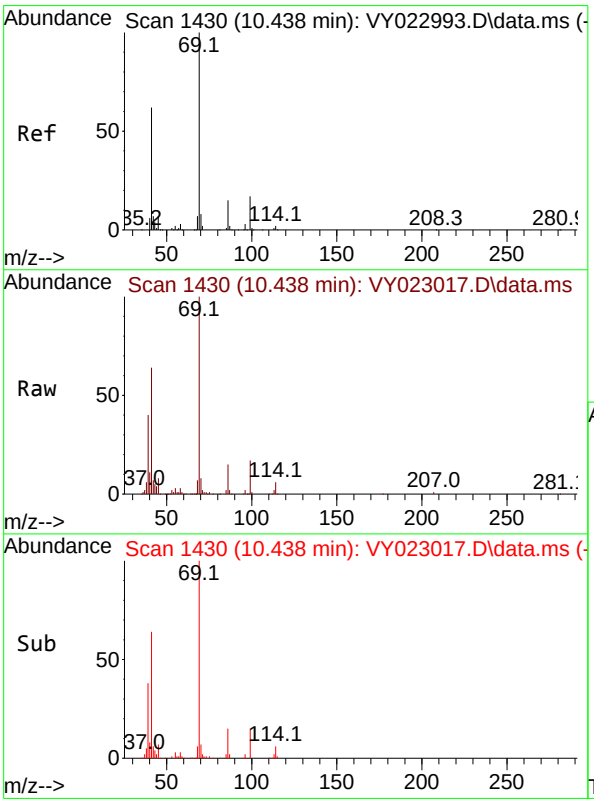
Ion	Ratio	Lower	Upper
97	100		
83	90.1	70.2	105.2
85	54.9	46.2	69.2
99	58.5	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

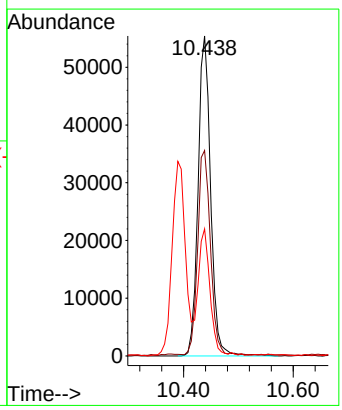
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

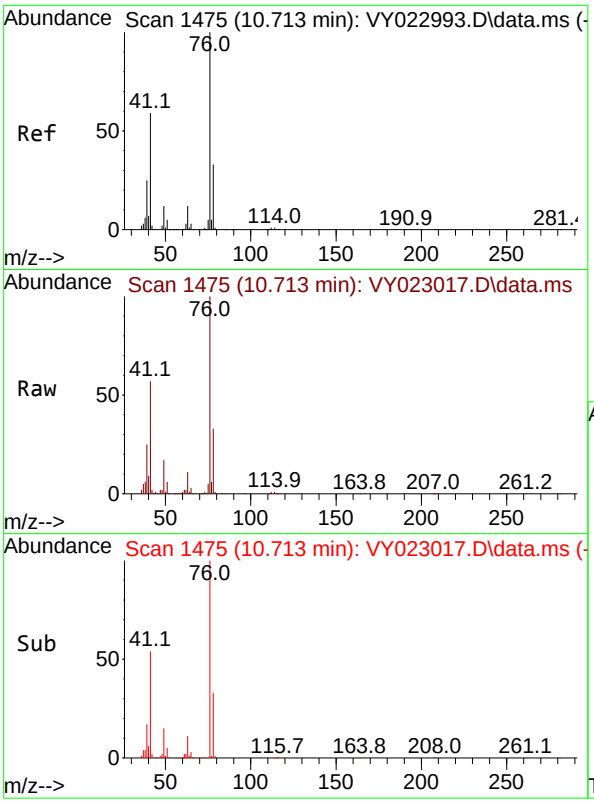


#56
Ethyl methacrylate
Concen: 21.424 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 69 Resp: 88261

Ion	Ratio	Lower	Upper
69	100		
41	65.1	51.0	76.4
39	37.0	30.6	46.0





#57
1,3-Dichloropropane
Concen: 21.373 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

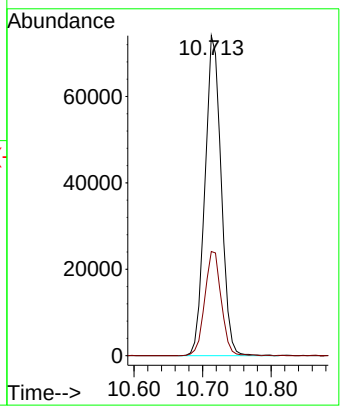
Tgt Ion: 76 Resp: 12184

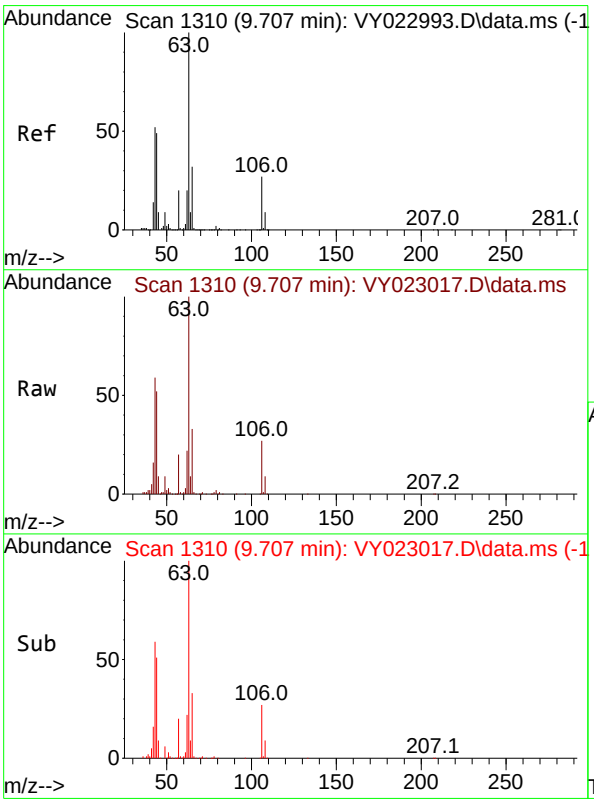
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

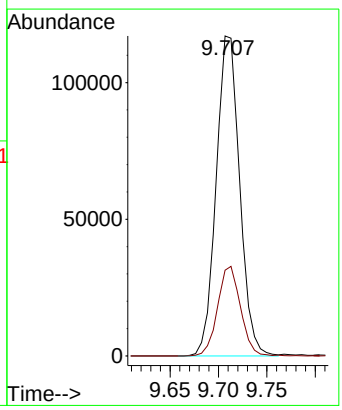


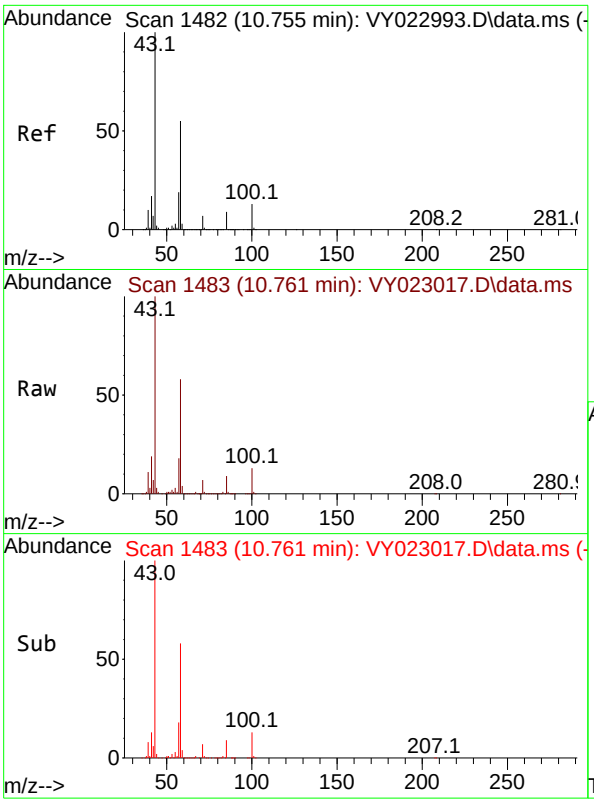


#58
2-Chloroethyl Vinyl ether
Concen: 97.947 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 63 Resp: 197528

Ion	Ratio	Lower	Upper
63	100		
106	27.4	22.6	33.8





#59
2-Hexanone
Concen: 120.174 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

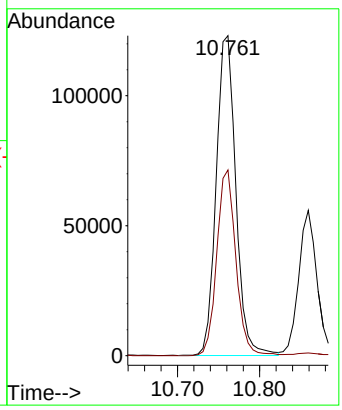
Tgt Ion: 43 Resp: 20435

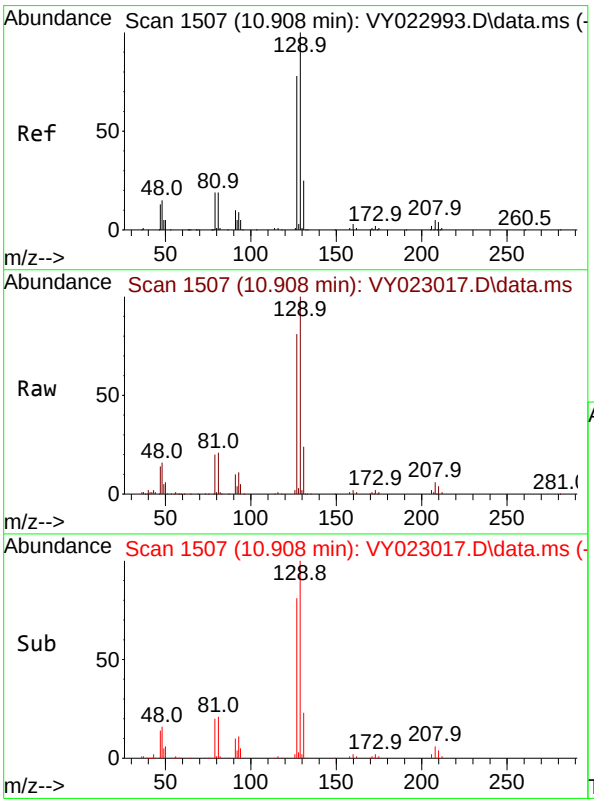
Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

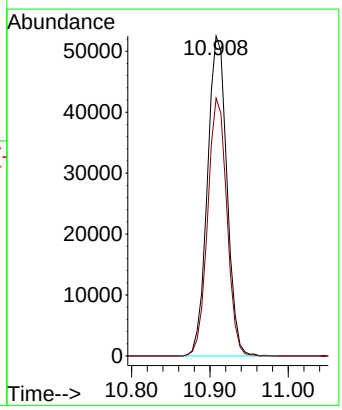


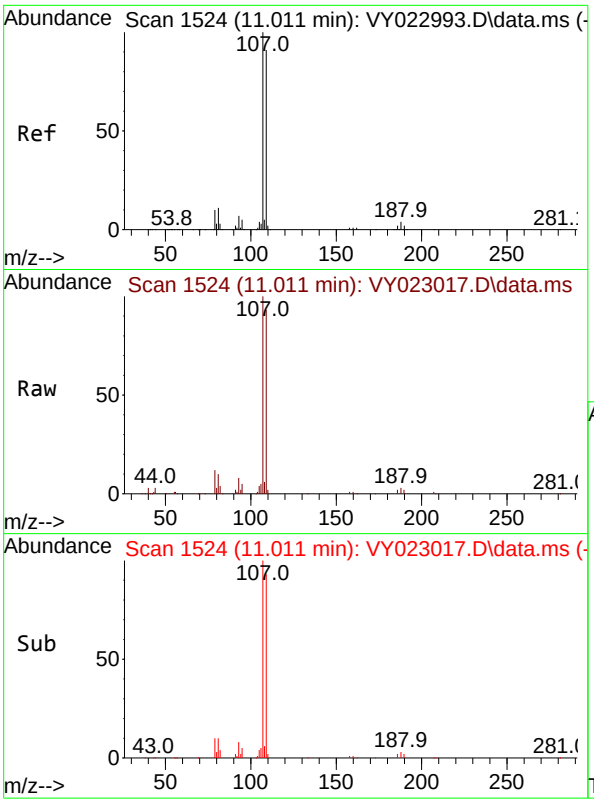


#60
Dibromochloromethane
Concen: 20.940 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:129 Resp: 90494

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.7	116.1

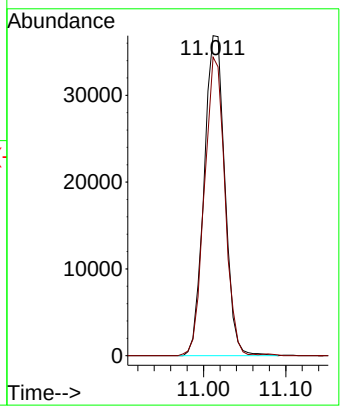




#61
1,2-Dibromoethane
Concen: 21.584 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:107 Resp: 6468

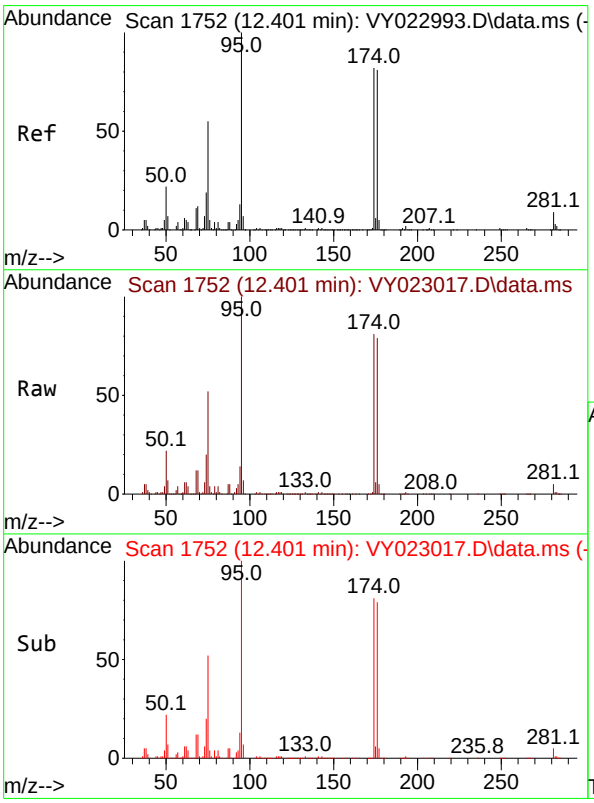
Ion	Ratio	Lower	Upper
107	100		
109	91.9	75.1	112.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

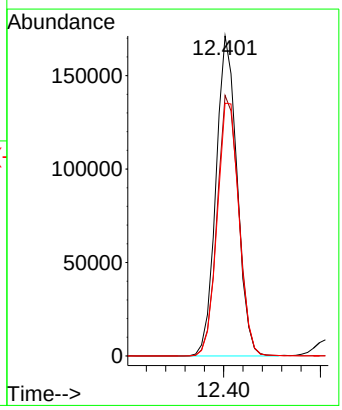
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

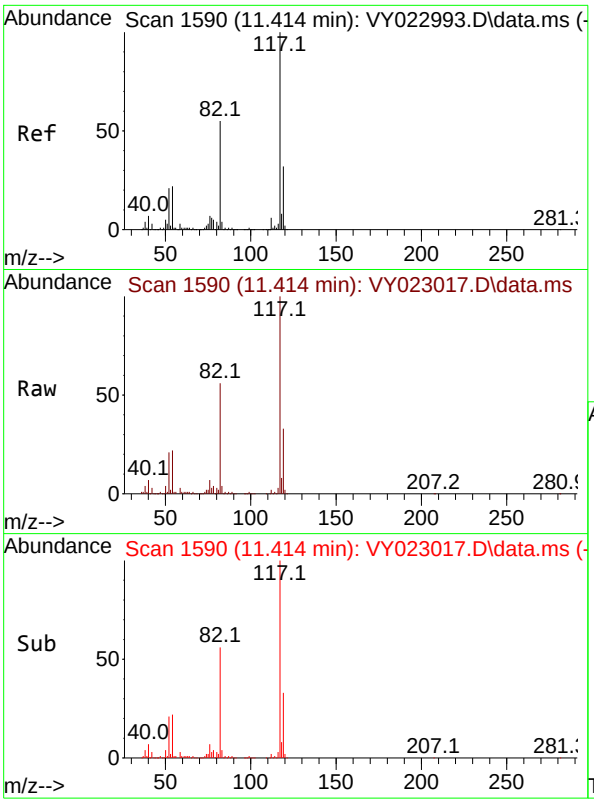


#62
4-Bromofluorobenzene
Concen: 47.182 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 95 Resp: 258332

Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	170.8
176	82.0	0.0	163.6

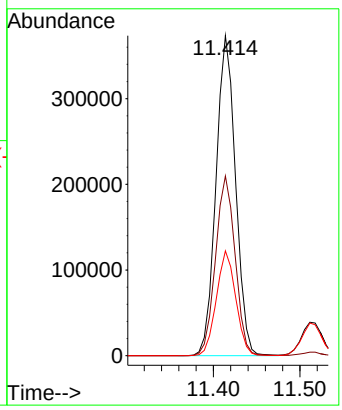




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:117 Resp: 58631

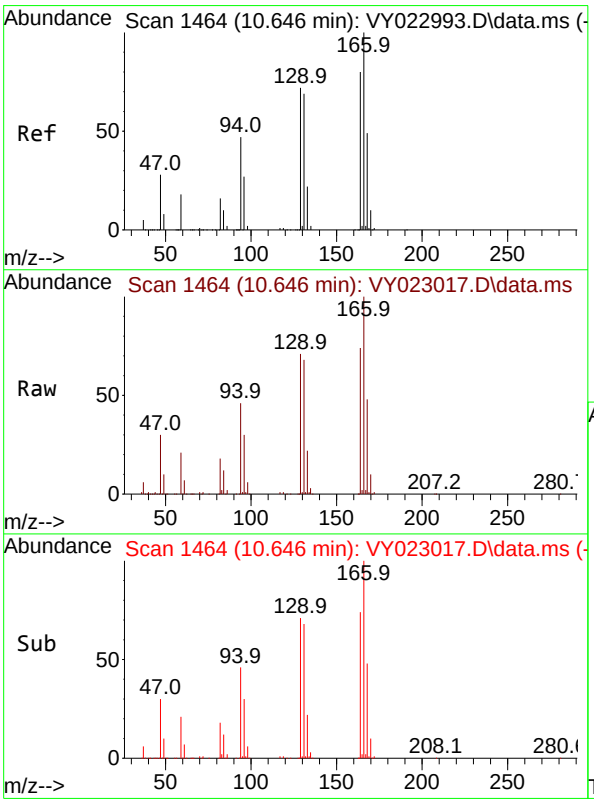
Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.3	66.5
119	32.7	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

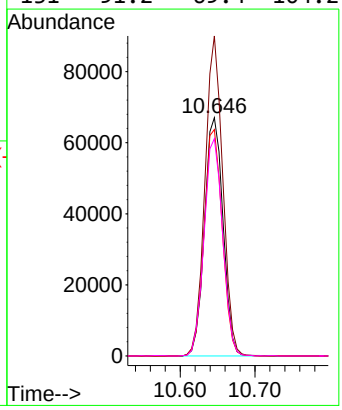
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

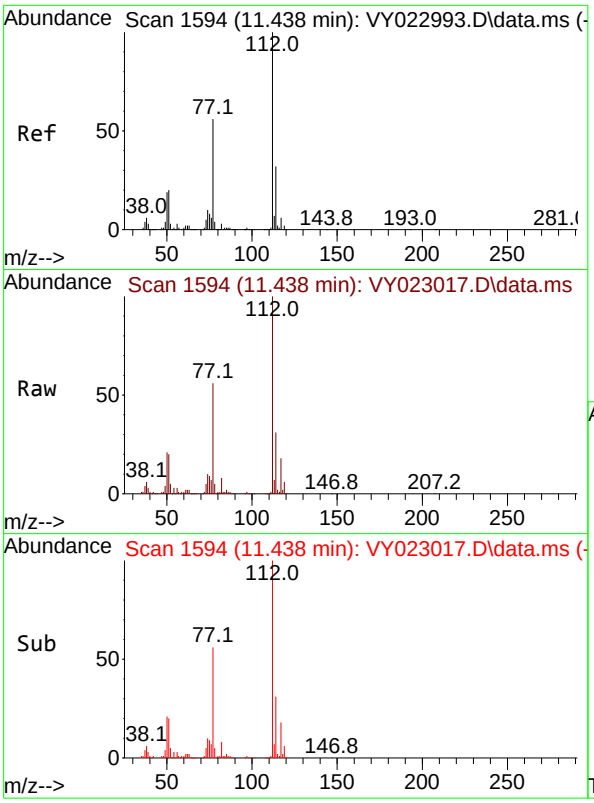


#64
Tetrachloroethene
Concen: 19.278 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:164 Resp: 115530

Ion	Ratio	Lower	Upper
164	100		
166	134.4	100.2	150.2
129	95.1	71.7	107.5
131	91.2	69.4	104.2

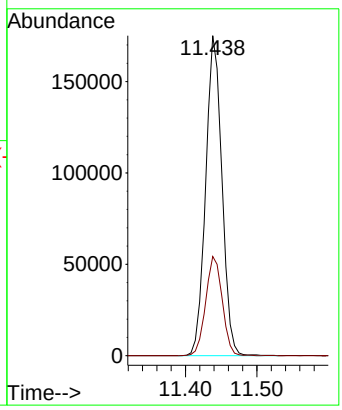




#65
Chlorobenzene
Concen: 19.972 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:112 Resp: 27631

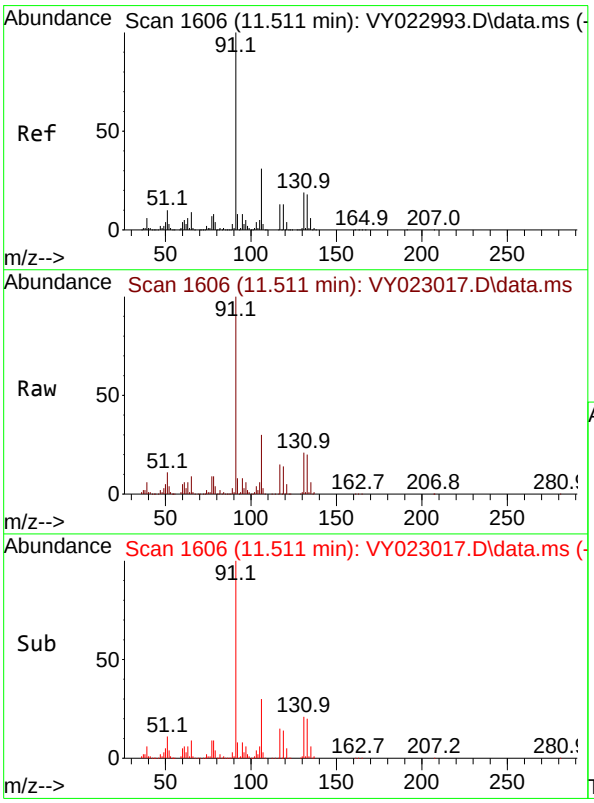
Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

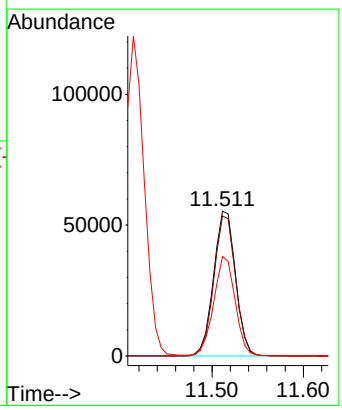
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

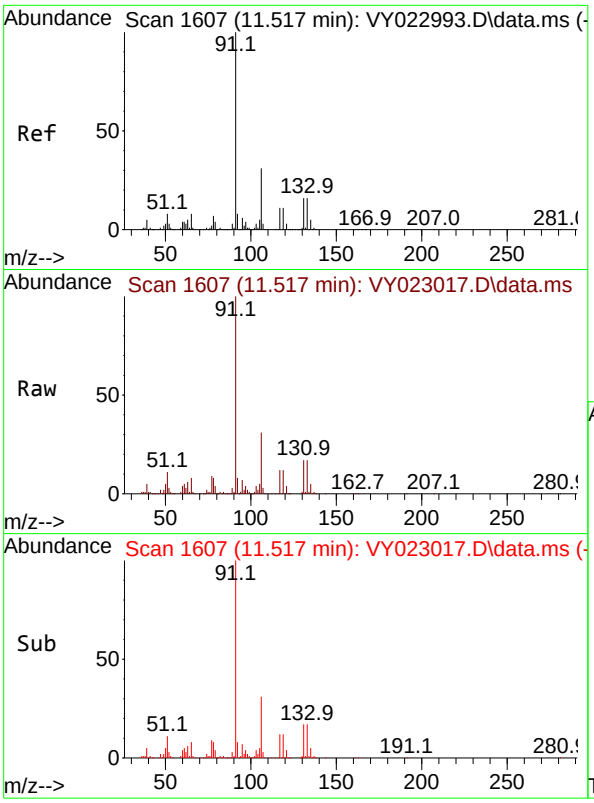


#66
1,1,1,2-Tetrachloroethane
Concen: 19.563 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:131 Resp: 92315

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.8	143.3
119	67.1	33.3	99.8

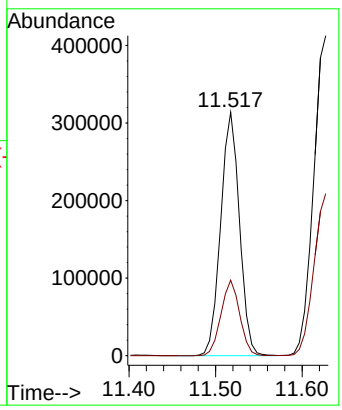




#67
Ethyl Benzene
Concen: 19.286 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 47295

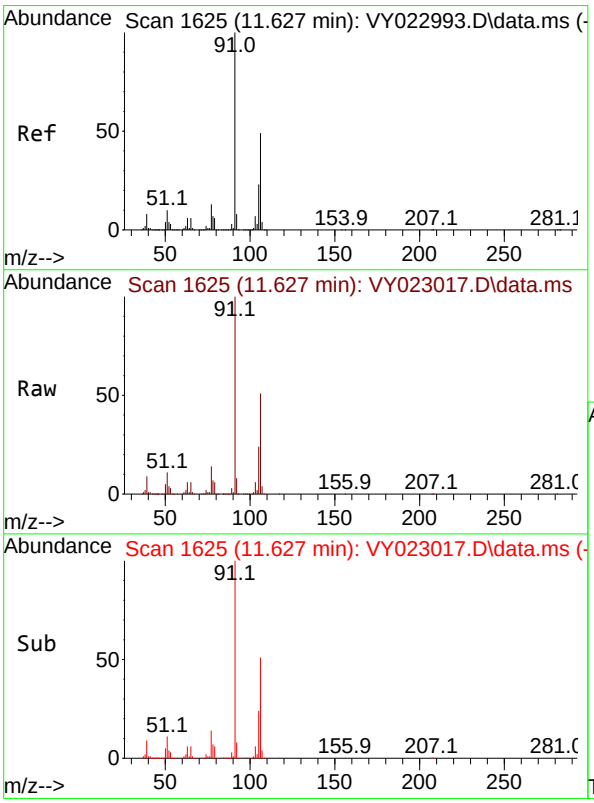
Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

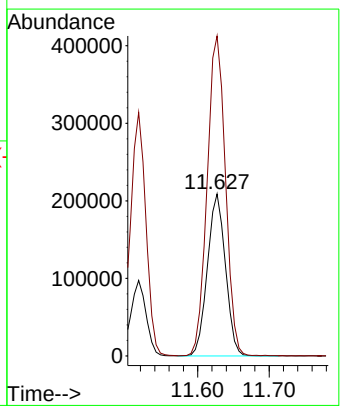
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

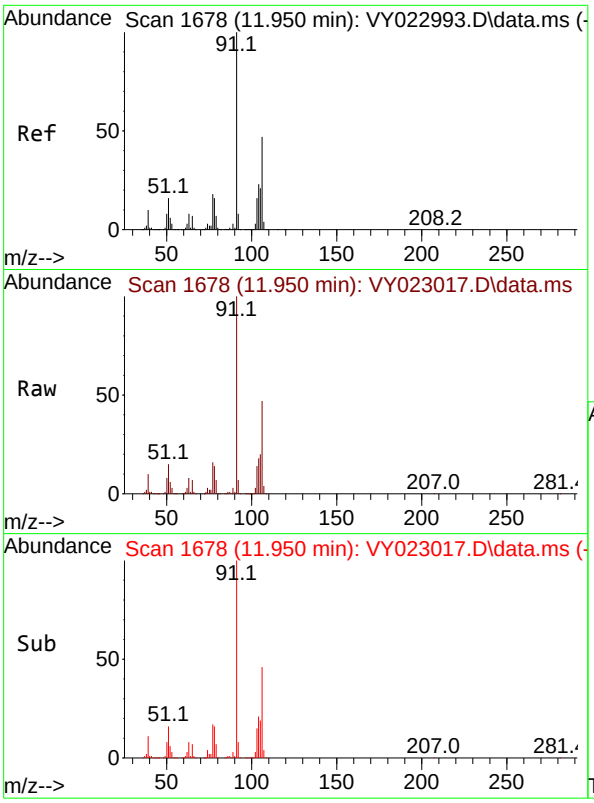


#68
m/p-Xylenes
Concen: 38.830 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:106 Resp: 365243

Ion	Ratio	Lower	Upper
106	100		
91	200.8	159.8	239.8





#69
o-Xylene
Concen: 19.457 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

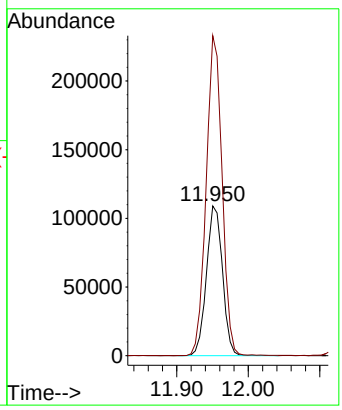
Tgt Ion:106 Resp: 16984

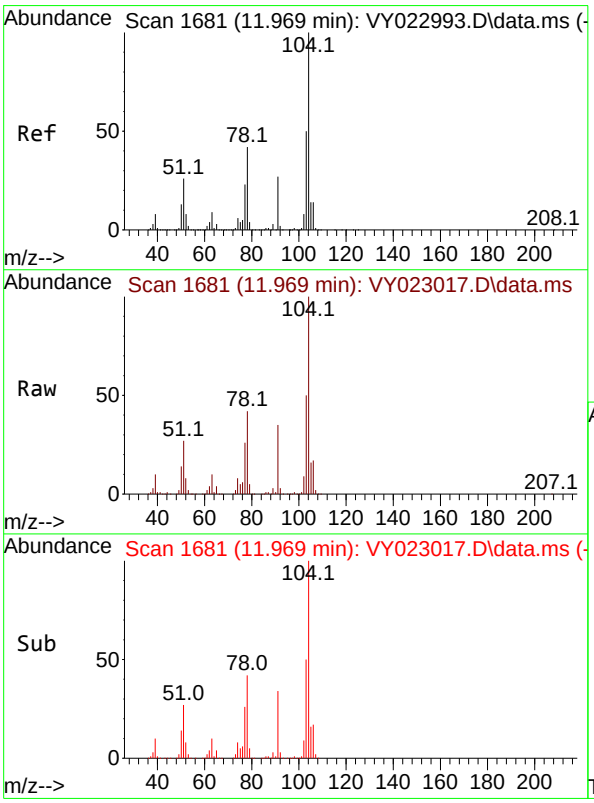
Ion	Ratio	Lower	Upper
106	100		
91	212.1	106.3	318.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

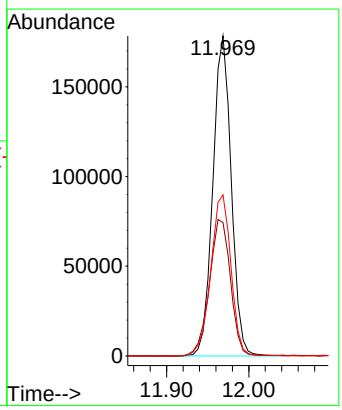


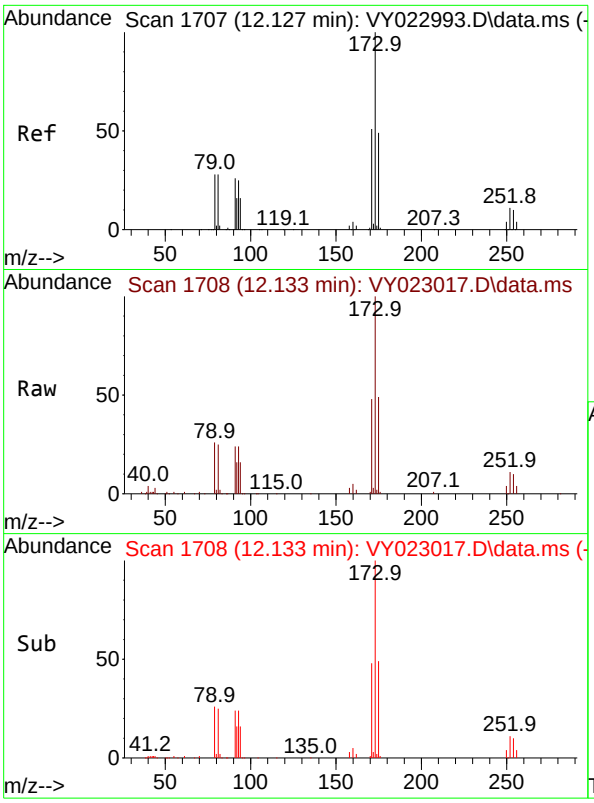


#70
Styrene
Concen: 19.367 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:104 Resp: 276934

Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.0	58.6
103	55.3	43.7	65.5

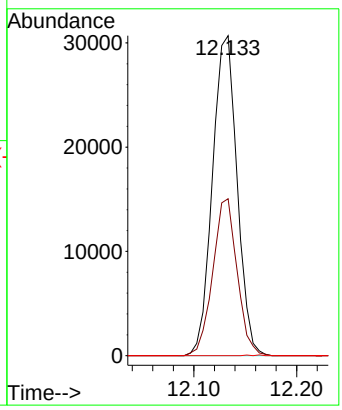




#71
Bromoform
Concen: 21.305 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:173 Resp: 5103

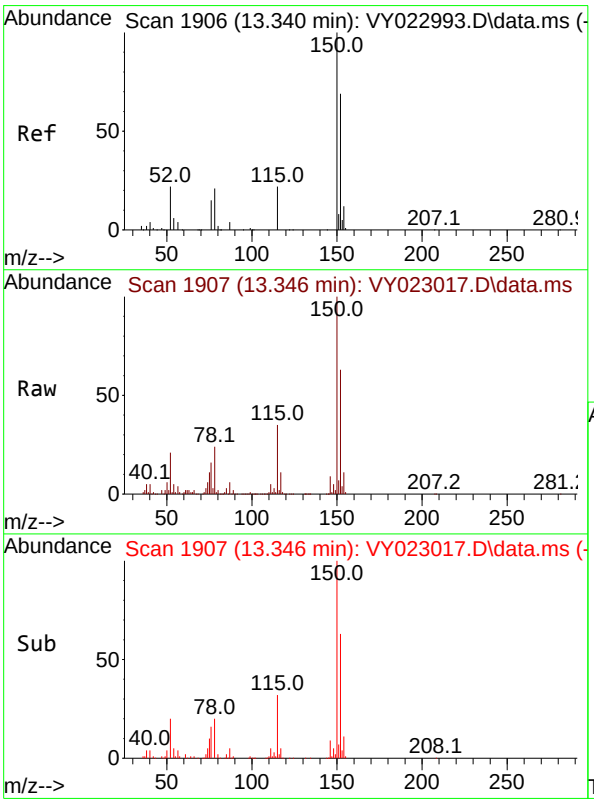
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

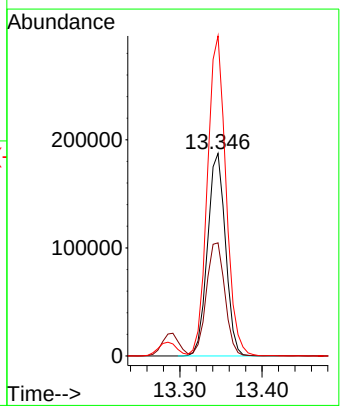
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

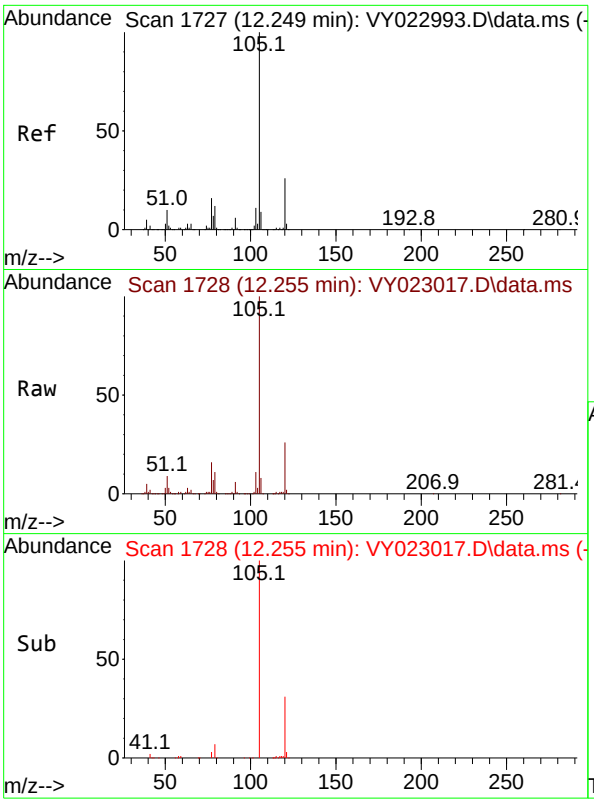


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:152 Resp: 283751

Ion	Ratio	Lower	Upper
152	100		
115	57.8	29.4	88.2
150	163.4	0.0	350.0

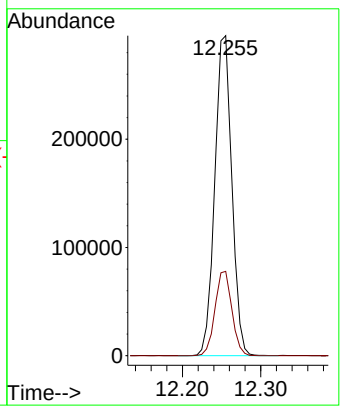




#73
Isopropylbenzene
Concen: 18.606 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:105 Resp: 44760

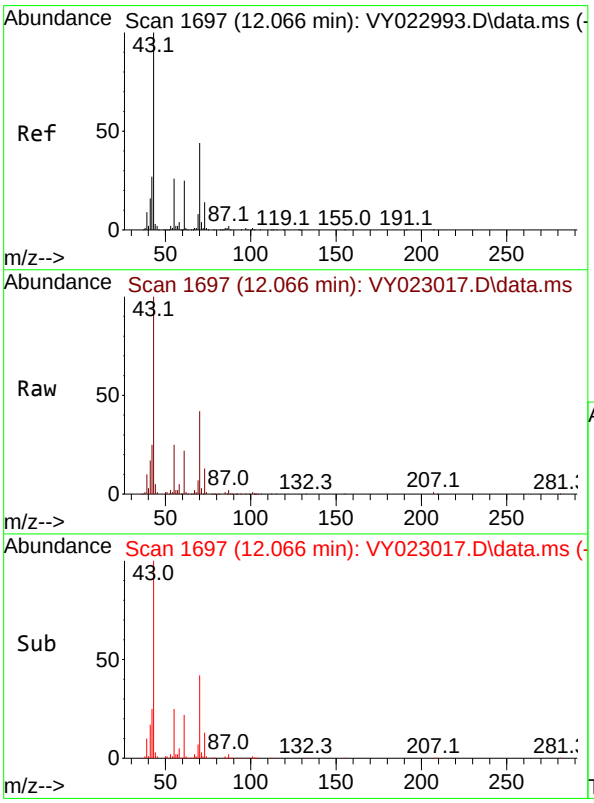
Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

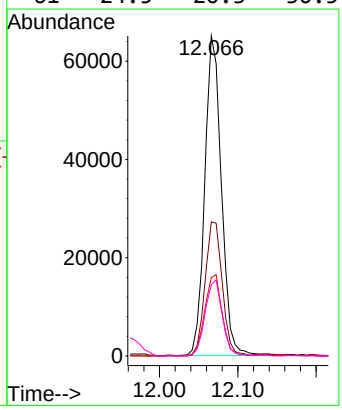
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

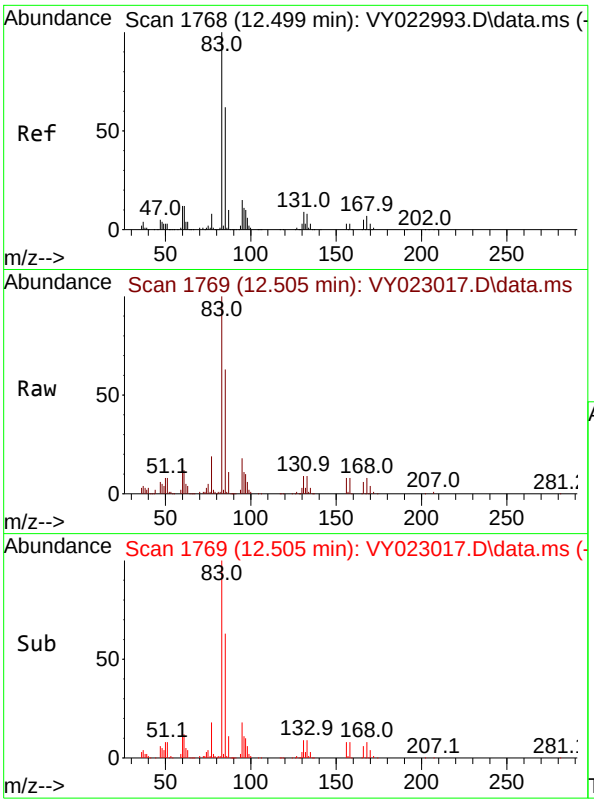


#74
N-amyl acetate
Concen: 21.128 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 43 Resp: 95827

Ion	Ratio	Lower	Upper
43	100		
70	43.3	36.2	54.2
55	26.2	20.9	31.3
61	24.5	20.3	30.5

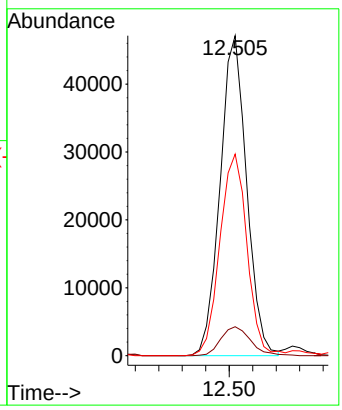




#75
1,1,2,2-Tetrachloroethane
Concen: 21.238 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 83 Resp: 7393

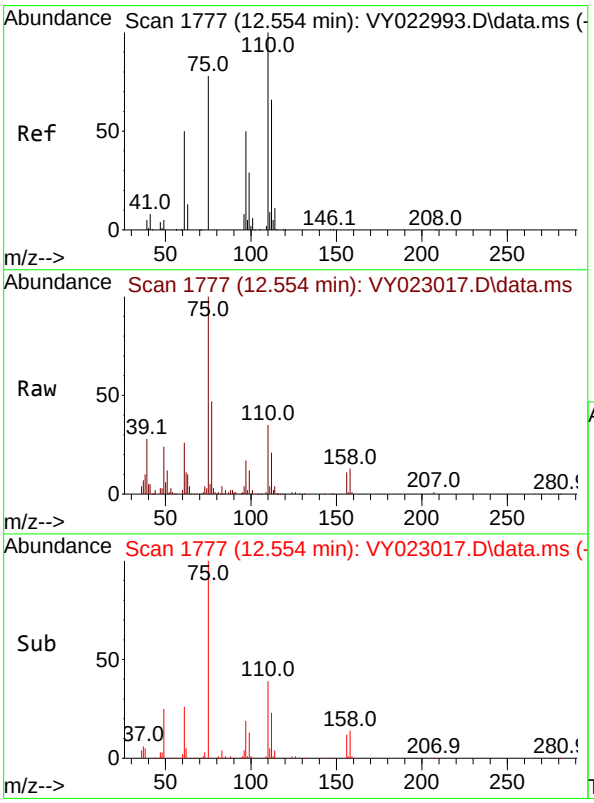
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	64.6	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

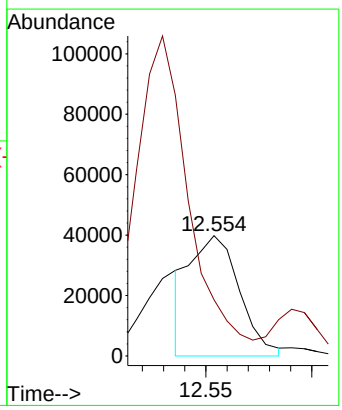
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

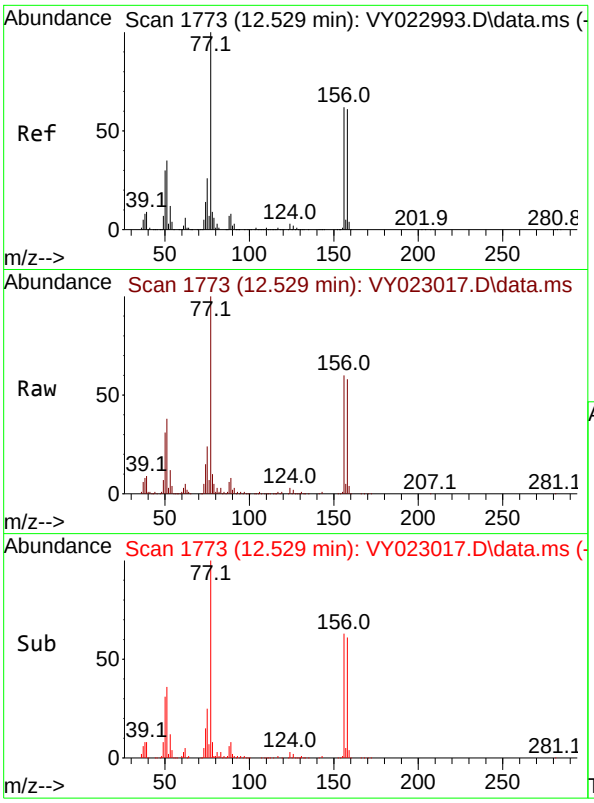


#76
1,2,3-Trichloropropane
Concen: 18.316 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 64760

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

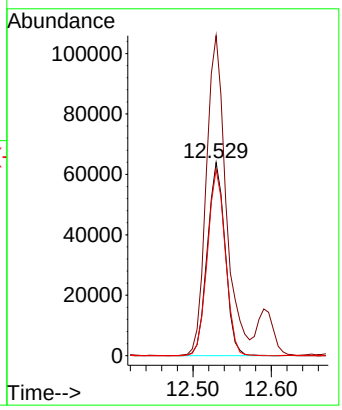




#77
Bromobenzene
Concen: 19.228 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:156 Resp: 10032

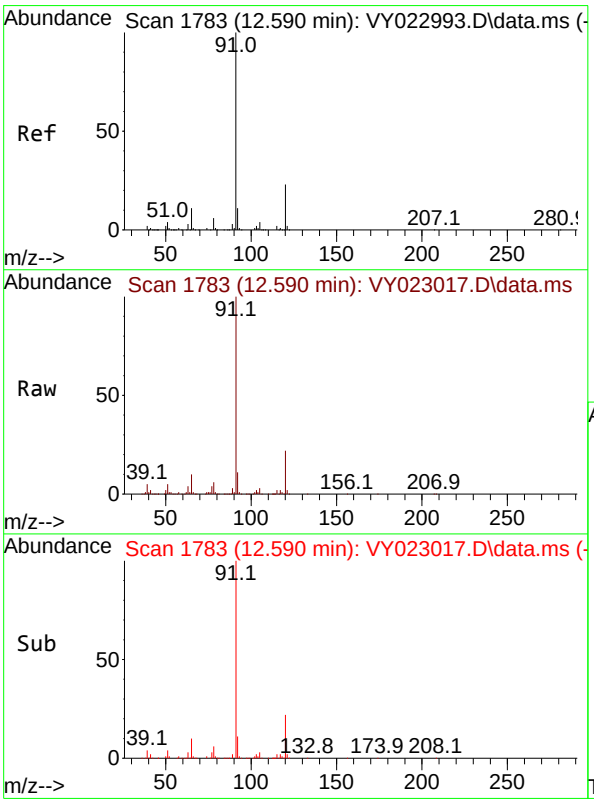
Ion	Ratio	Lower	Upper
156	100		
77	184.9	92.0	276.1
158	97.4	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

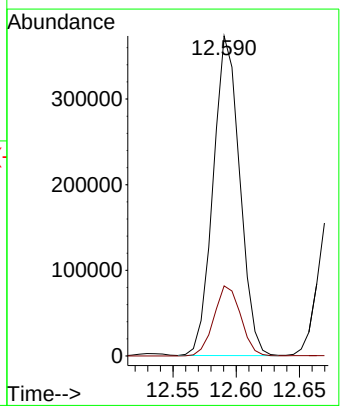
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

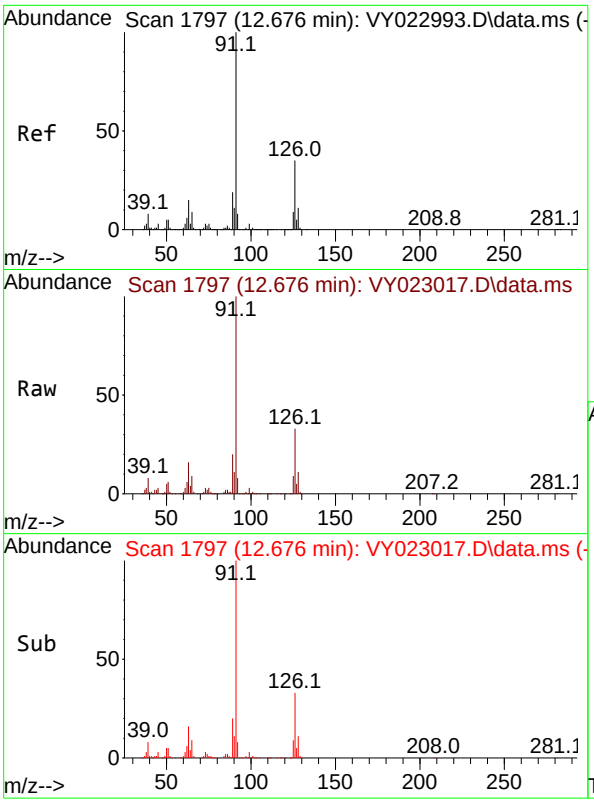


#78
n-propylbenzene
Concen: 19.027 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 545094

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.3	33.8

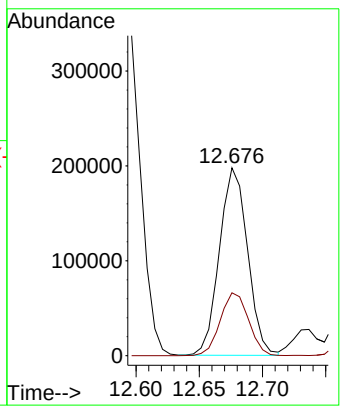




#79
2-Chlorotoluene
Concen: 19.016 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 30639

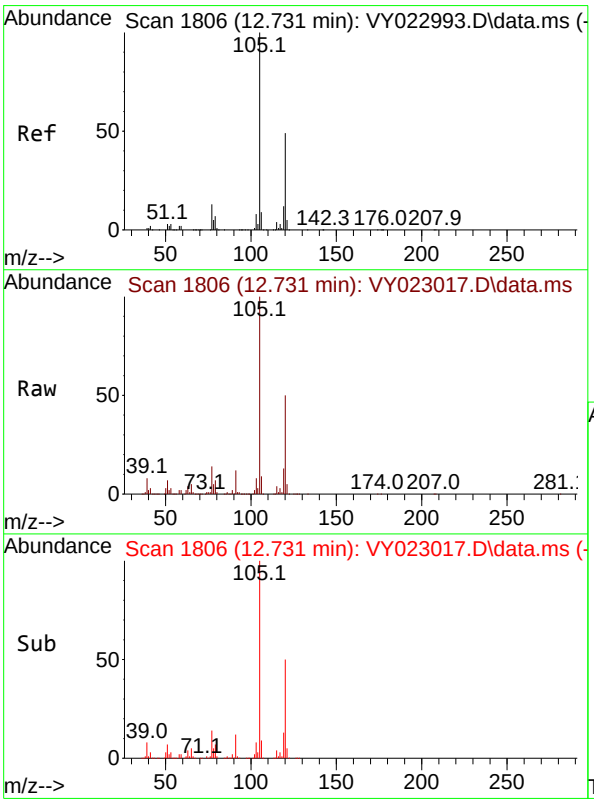
Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.0	50.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

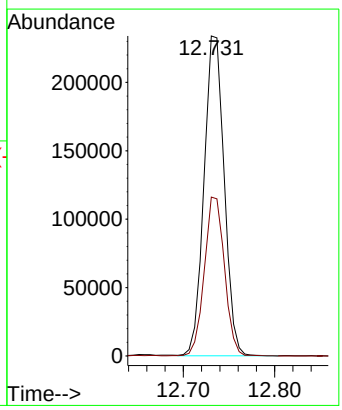
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

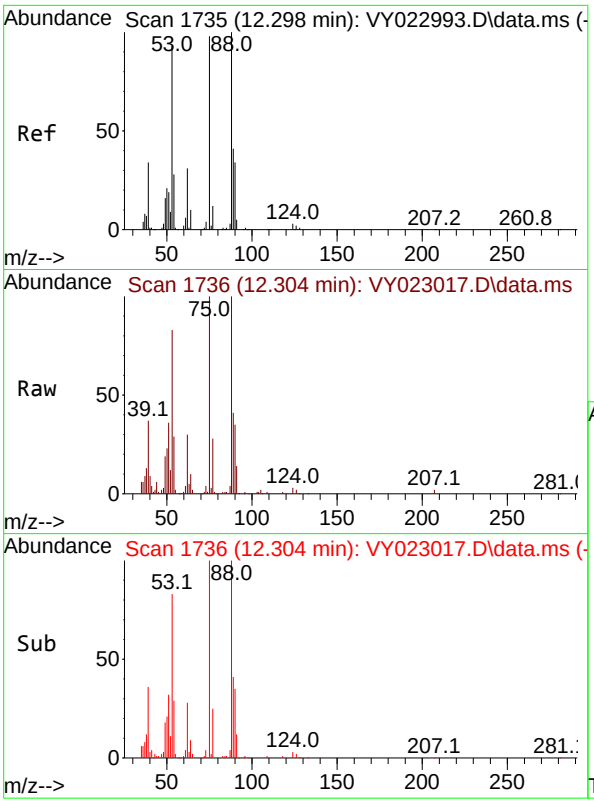


#80
1,3,5-Trimethylbenzene
Concen: 18.868 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:105 Resp: 357988

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.6	73.8





#81
trans-1,4-Dichloro-2-butene
Concen: 20.228 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

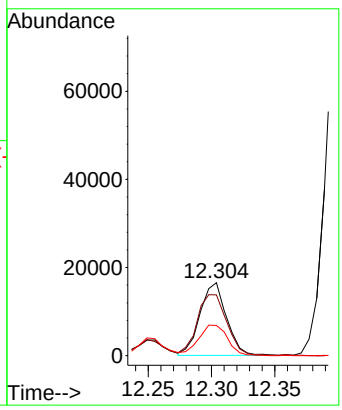
Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

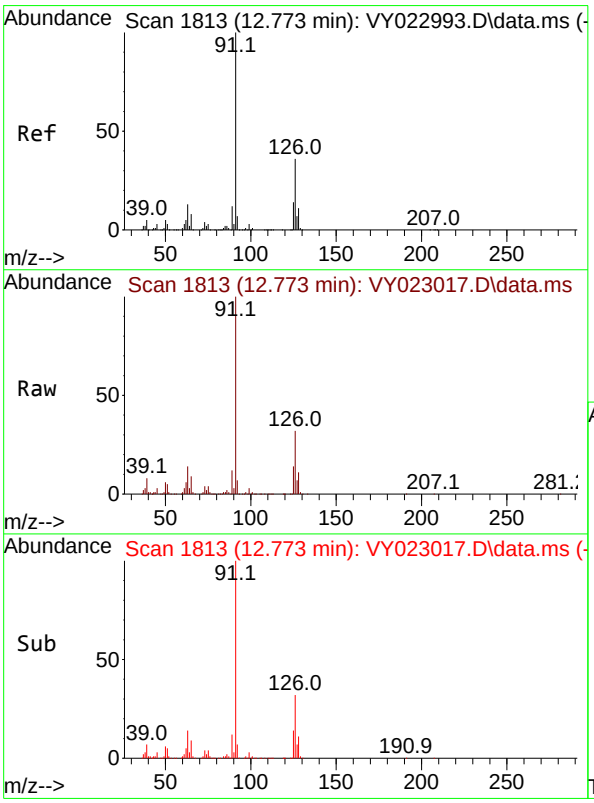
Tgt Ion: 75 Resp: 2401

Ion	Ratio	Lower	Upper
75	100		
53	92.8	76.1	114.1
89	46.2	36.1	54.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

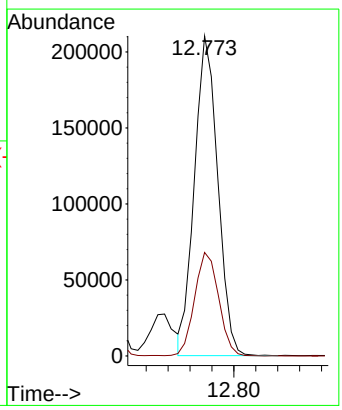


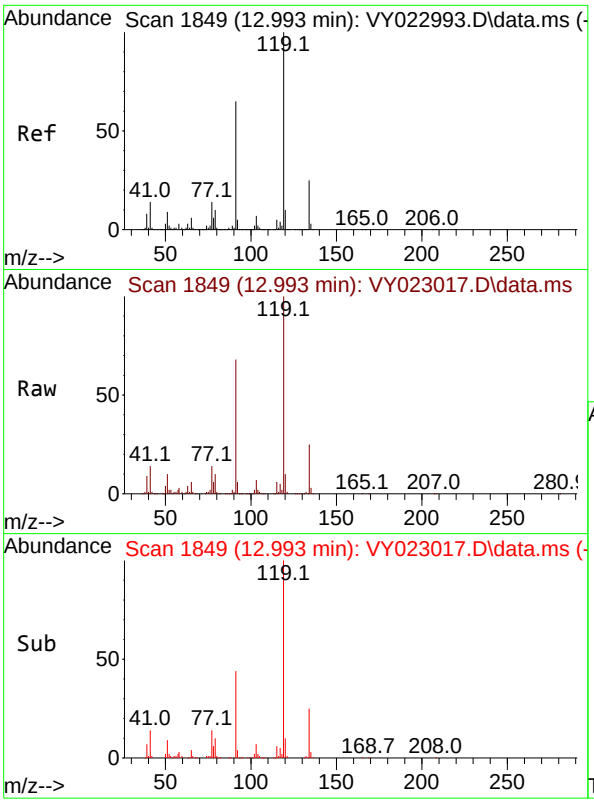


#82
4-Chlorotoluene
Concen: 19.124 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 310771

Ion	Ratio	Lower	Upper
91	100		
126	33.6	17.2	51.5

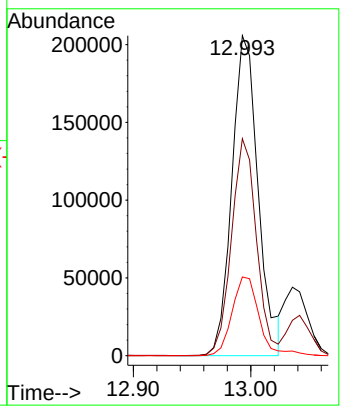




#83
tert-Butylbenzene
Concen: 18.666 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:119 Resp: 31991

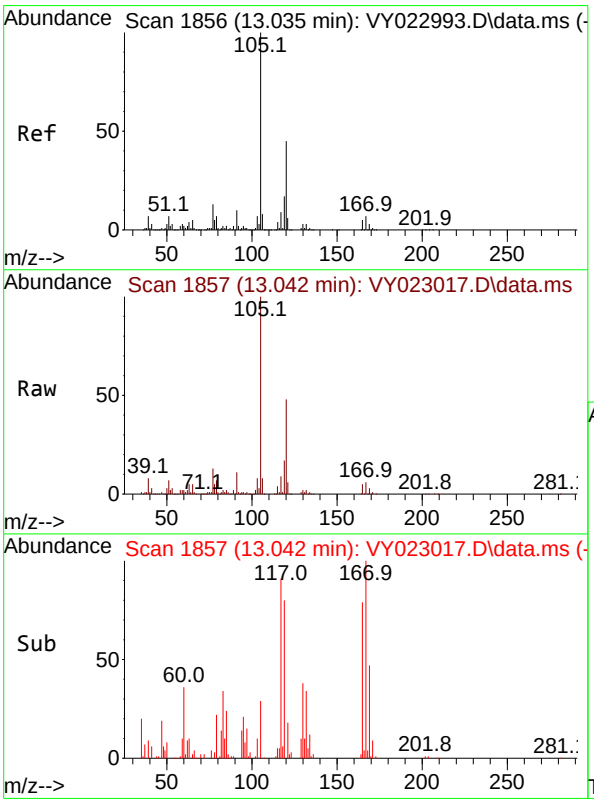
Ion	Ratio	Lower	Upper
119	100		
91	64.6	32.0	96.2
134	25.4	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

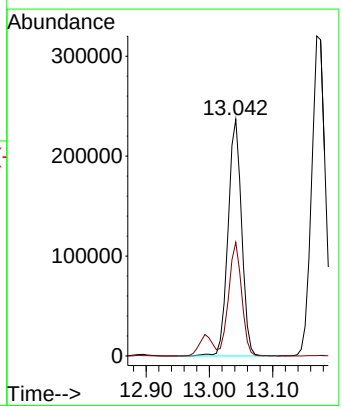
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

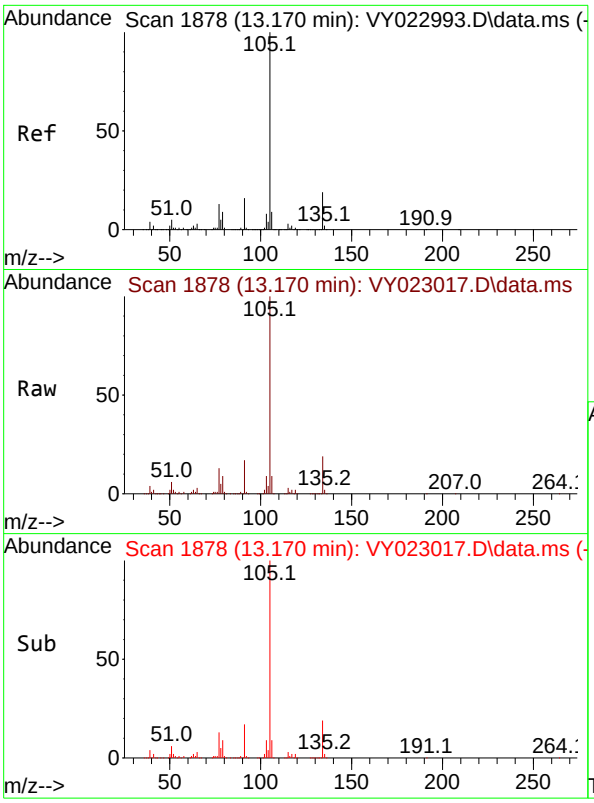


#84
1,2,4-Trimethylbenzene
Concen: 18.832 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:105 Resp: 351737

Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8





#85
sec-Butylbenzene
Concen: 18.712 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

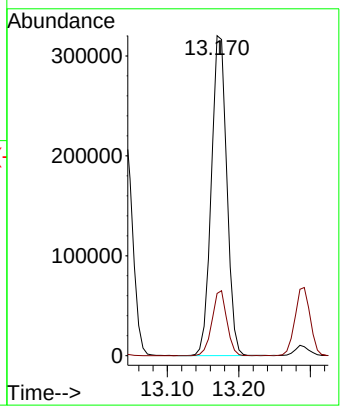
Tgt Ion:105 Resp: 48060

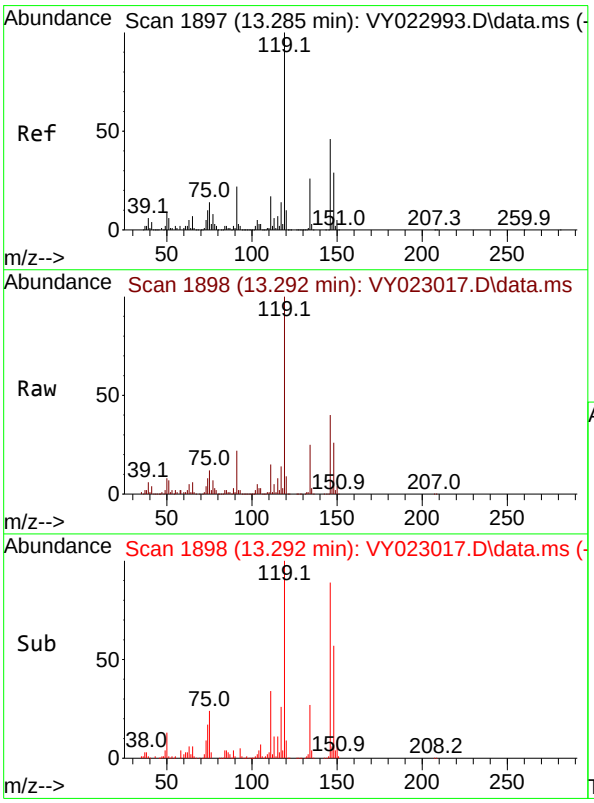
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

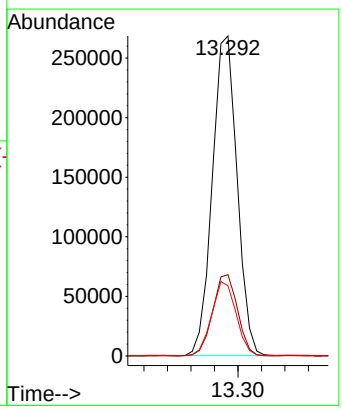


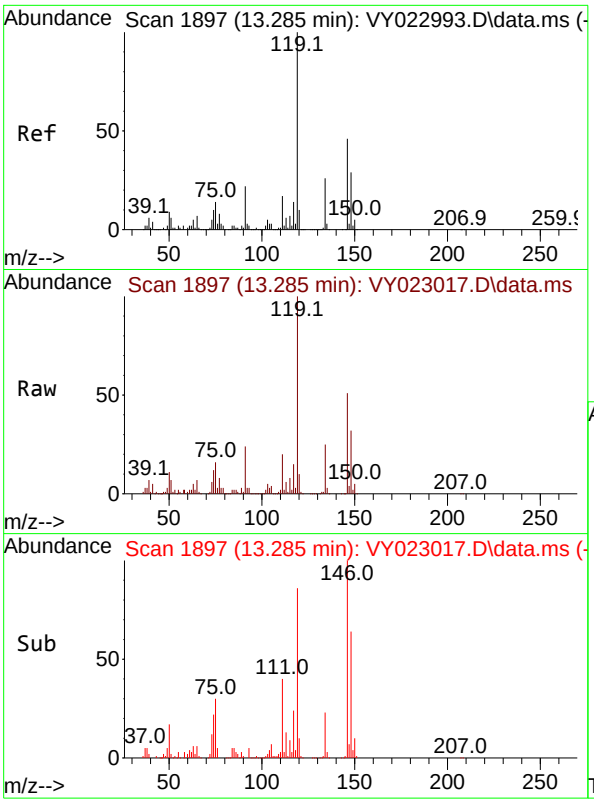


#86
p-Isopropyltoluene
Concen: 18.839 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:119 Resp: 392976

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.1	39.1
91	23.1	11.4	34.1

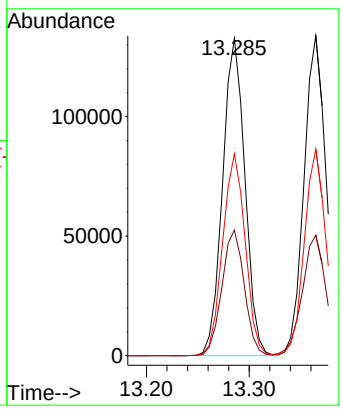




#87
1,3-Dichlorobenzene
Concen: 19.028 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:146 Resp: 20036

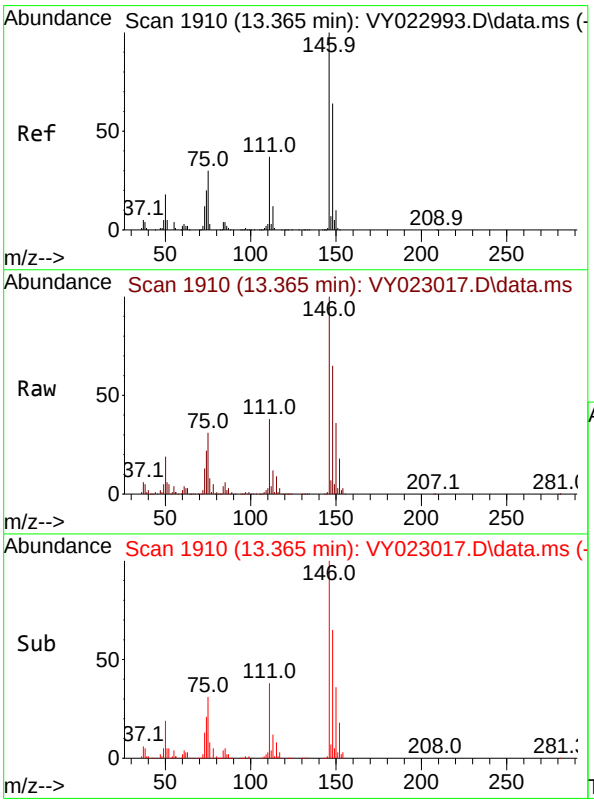
Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.8	59.3
148	64.1	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

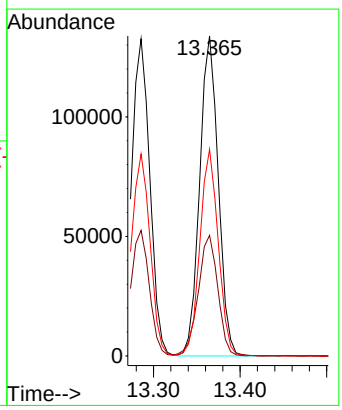
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

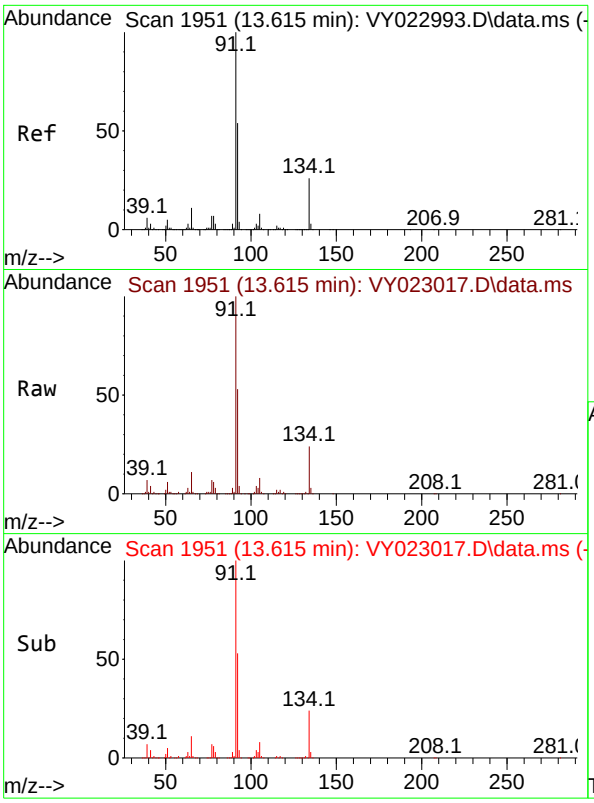


#88
1,4-Dichlorobenzene
Concen: 19.616 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:146 Resp: 199817

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.2	57.6
148	63.9	31.9	95.5

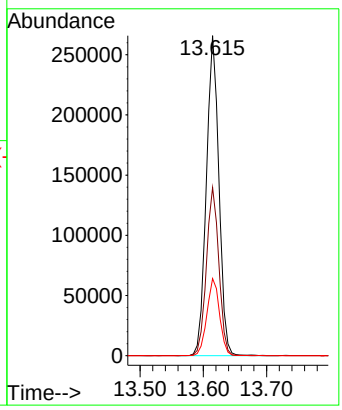




#89
n-Butylbenzene
Concen: 19.048 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 36663

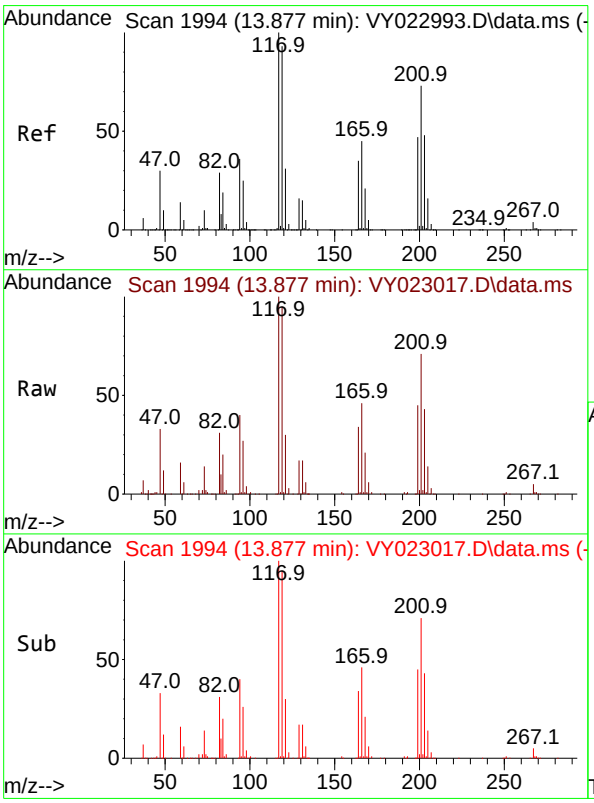
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.6	79.7
134	24.4	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

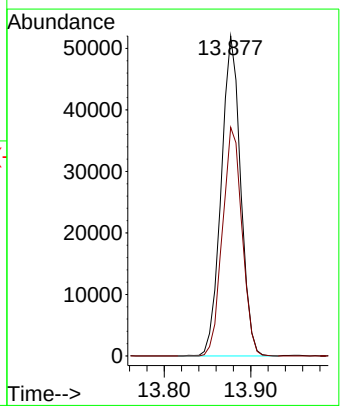
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

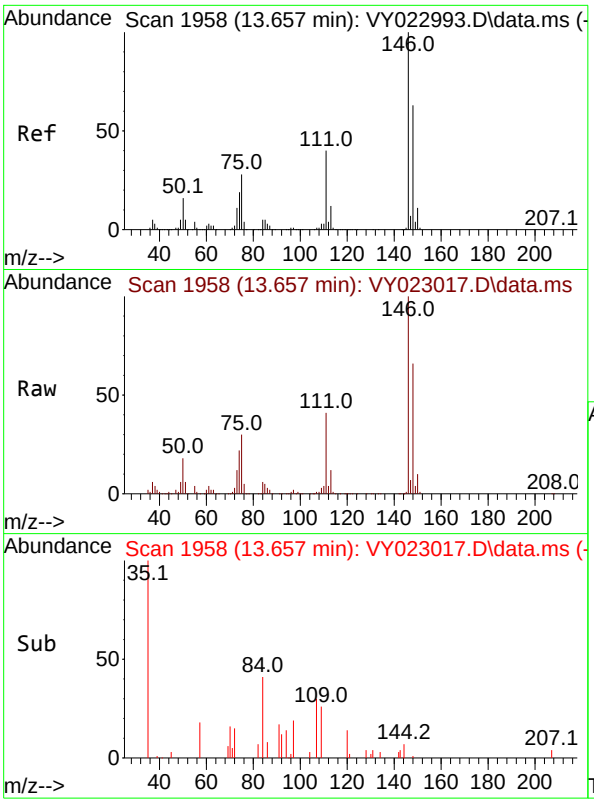


#90
Hexachloroethane
Concen: 18.751 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:117 Resp: 80981

Ion	Ratio	Lower	Upper
117	100		
201	72.0	36.1	108.5

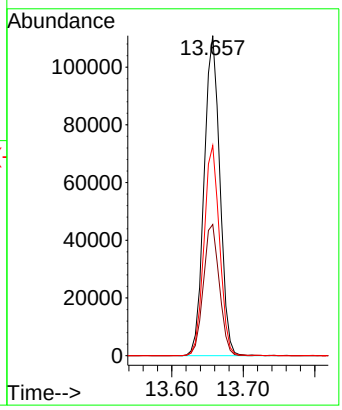




#91
1,2-Dichlorobenzene
Concen: 19.036 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:146 Resp: 16907

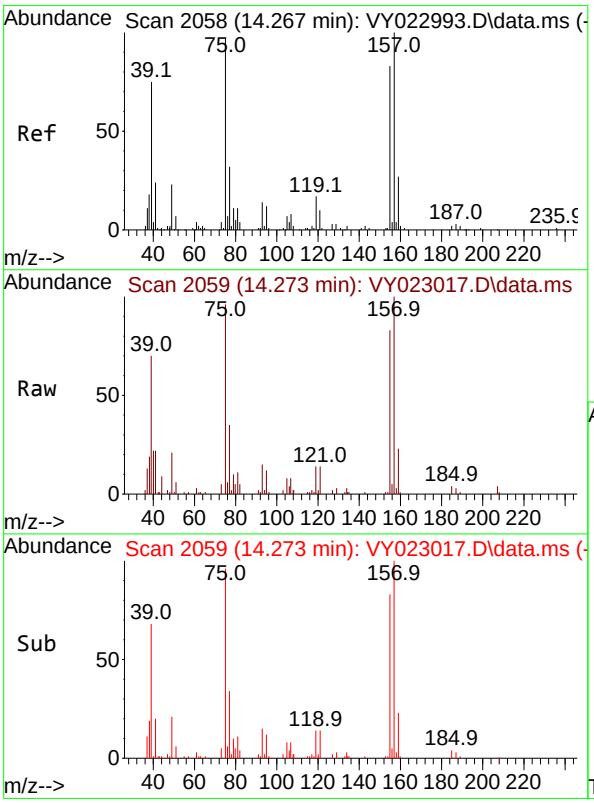
Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.3	61.0
148	64.9	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

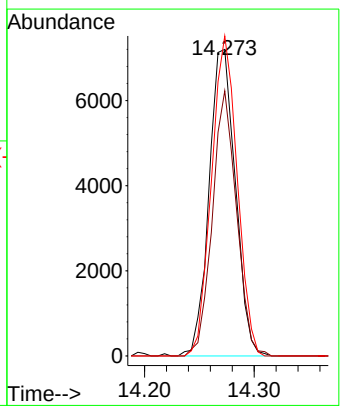
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

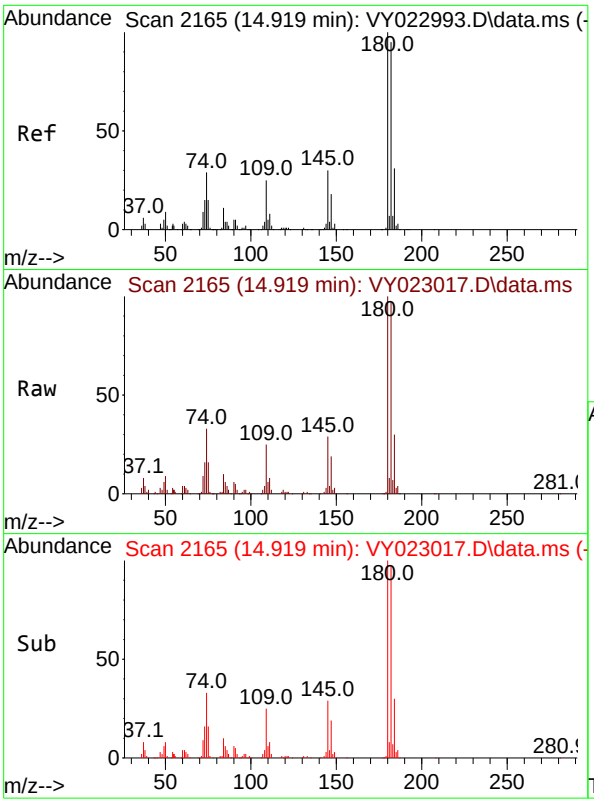


#92
1,2-Dibromo-3-Chloropropane
Concen: 23.243 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 12015

Ion	Ratio	Lower	Upper
75	100		
155	79.4	42.8	128.3
157	101.9	54.3	162.9

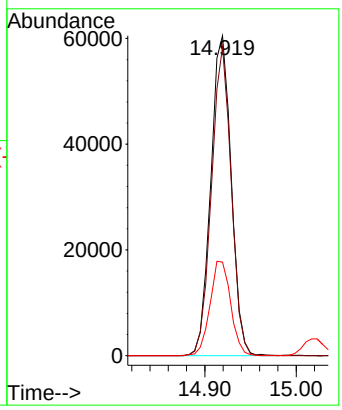




#93
1,2,4-Trichlorobenzene
Concen: 20.050 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:180 Resp: 9387

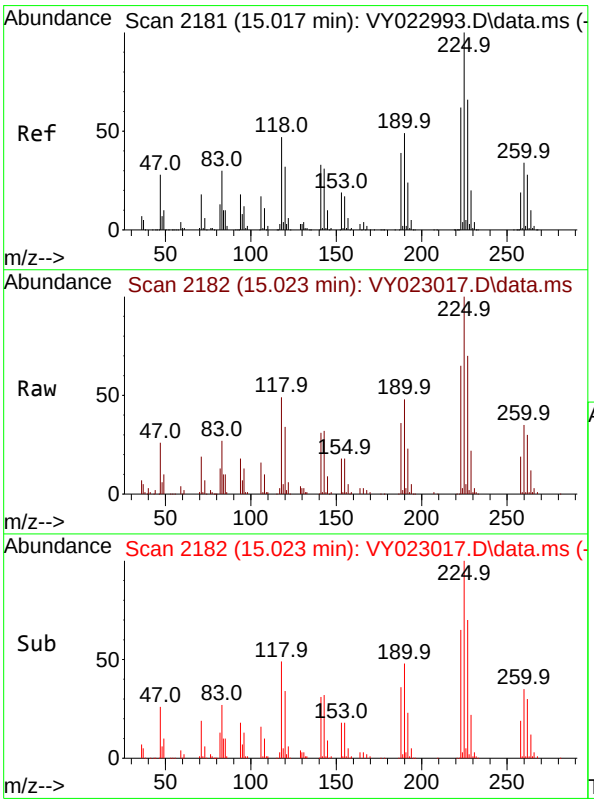
Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.5	142.5
145	29.9	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

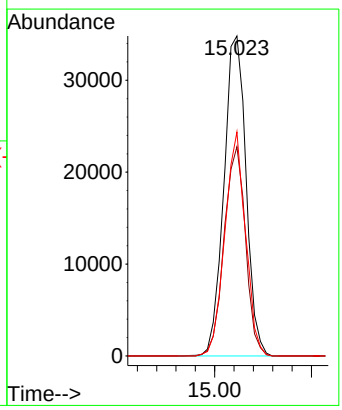
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

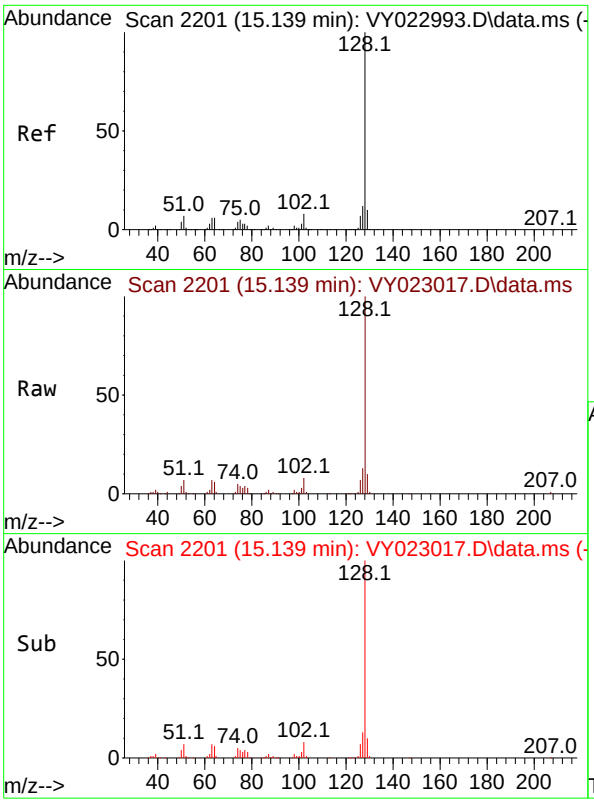


#94
Hexachlorobutadiene
Concen: 18.735 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:225 Resp: 55300

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.4	94.0
227	65.3	32.1	96.5

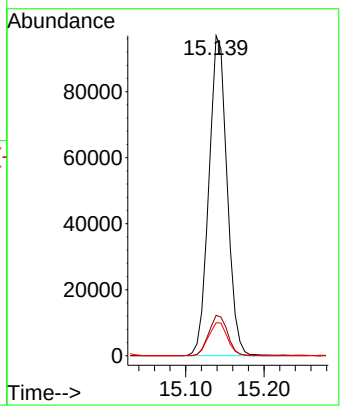




#95
Naphthalene
Concen: 20.828 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:128 Resp: 15640

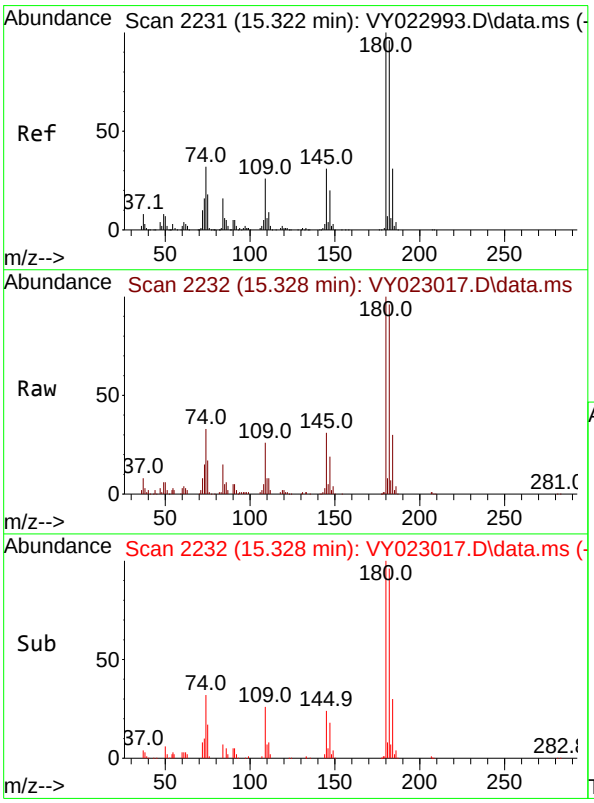
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	10.8	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Manual Integrations
APPROVED

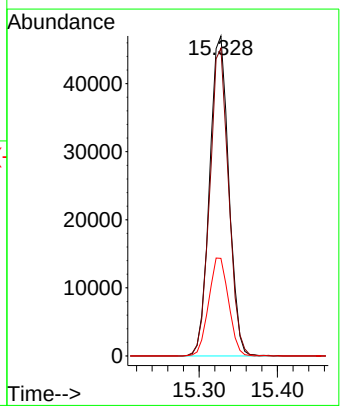
Reviewed By :Mahesh Dadoda 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.662 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:180 Resp: 79873

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	142.0
145	31.7	15.8	47.4



Raw Data: **VY023000.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBSD01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023000.D	1	07/18/25 16:00	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.020		0.0011	0.0040	0.0050	mg/Kg
74-87-3	Chloromethane	0.023		0.0011	0.0025	0.0050	mg/Kg
75-01-4	Vinyl Chloride	0.021		0.00079	0.0025	0.0050	mg/Kg
74-83-9	Bromomethane	0.025		0.0011	0.0040	0.0050	mg/Kg
75-00-3	Chloroethane	0.022		0.0013	0.0025	0.0050	mg/Kg
109-99-9	Tetrahydrofuran	0.12		0.0047	0.013	0.025	mg/Kg
75-69-4	Trichlorofluoromethane	0.021		0.0012	0.0040	0.0050	mg/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.020		0.0011	0.0025	0.0050	mg/Kg
75-35-4	1,1-Dichloroethene	0.020		0.0010	0.0025	0.0050	mg/Kg
107-13-1	Acrylonitrile	0.12		0.0050	0.013	0.025	mg/Kg
67-64-1	Acetone	0.12		0.0047	0.020	0.025	mg/Kg
75-15-0	Carbon Disulfide	0.020		0.0011	0.0040	0.0050	mg/Kg
1634-04-4	Methyl tert-butyl Ether	0.023		0.00073	0.0025	0.0050	mg/Kg
75-09-2	Methylene Chloride	0.022		0.0035	0.0080	0.010	mg/Kg
156-60-5	trans-1,2-Dichloroethene	0.021		0.00086	0.0025	0.0050	mg/Kg
75-34-3	1,1-Dichloroethane	0.021		0.00080	0.0025	0.0050	mg/Kg
78-93-3	2-Butanone	0.12		0.0065	0.020	0.025	mg/Kg
56-23-5	Carbon Tetrachloride	0.019		0.00097	0.0025	0.0050	mg/Kg
594-20-7	2,2-Dichloropropane	0.020		0.0013	0.0040	0.0050	mg/Kg
156-59-2	cis-1,2-Dichloroethene	0.021		0.00075	0.0025	0.0050	mg/Kg
67-66-3	Chloroform	0.021		0.00084	0.0040	0.0050	mg/Kg
71-55-6	1,1,1-Trichloroethane	0.021		0.00093	0.0025	0.0050	mg/Kg
563-58-6	1,1-Dichloropropene	0.020		0.00087	0.0025	0.0050	mg/Kg
71-43-2	Benzene	0.020		0.00079	0.0025	0.0050	mg/Kg
107-06-2	1,2-Dichloroethane	0.022		0.00079	0.0025	0.0050	mg/Kg
79-01-6	Trichloroethene	0.019		0.00081	0.0025	0.0050	mg/Kg
78-87-5	1,2-Dichloropropane	0.021		0.00091	0.0025	0.0050	mg/Kg
74-95-3	Dibromomethane	0.022		0.00089	0.0025	0.0050	mg/Kg
75-27-4	Bromodichloromethane	0.021		0.00078	0.0025	0.0050	mg/Kg
108-10-1	4-Methyl-2-Pentanone	0.12		0.0036	0.013	0.025	mg/Kg

Raw Data: **VY023000.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBSD01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023000.D	1	07/18/25 16:00	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	0.020		0.00078	0.0025	0.0050	mg/Kg
10061-02-6	t-1,3-Dichloropropene	0.021		0.00065	0.0025	0.0050	mg/Kg
10061-01-5	cis-1,3-Dichloropropene	0.021		0.00062	0.0025	0.0050	mg/Kg
79-00-5	1,1,2-Trichloroethane	0.022		0.00092	0.0025	0.0050	mg/Kg
142-28-9	1,3-Dichloropropane	0.022		0.00068	0.0025	0.0050	mg/Kg
591-78-6	2-Hexanone	0.12		0.0037	0.013	0.025	mg/Kg
124-48-1	Dibromochloromethane	0.022		0.00087	0.0025	0.0050	mg/Kg
106-93-4	1,2-Dibromoethane	0.022		0.00088	0.0025	0.0050	mg/Kg
127-18-4	Tetrachloroethene	0.019		0.0011	0.0025	0.0050	mg/Kg
108-90-7	Chlorobenzene	0.020		0.00091	0.0025	0.0050	mg/Kg
630-20-6	1,1,1,2-Tetrachloroethane	0.020		0.00077	0.0025	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.019		0.00067	0.0025	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.039		0.0012	0.0050	0.010	mg/Kg
1330-20-7	Total Xylenes	0.058		0.0020	0.0075	0.015	mg/Kg
95-47-6	o-Xylene	0.019		0.00082	0.0025	0.0050	mg/Kg
100-42-5	Styrene	0.020		0.00071	0.0025	0.0050	mg/Kg
75-25-2	Bromoform	0.021		0.00086	0.0025	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.019		0.00078	0.0025	0.0050	mg/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.022		0.0012	0.0025	0.0050	mg/Kg
96-18-4	1,2,3-Trichloropropane	0.018		0.0012	0.0040	0.0050	mg/Kg
108-86-1	Bromobenzene	0.020		0.0012	0.0025	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.020		0.00073	0.0025	0.0050	mg/Kg
95-49-8	2-Chlorotoluene	0.020		0.00068	0.0025	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.019		0.00082	0.0025	0.0050	mg/Kg
106-43-4	4-Chlorotoluene	0.020		0.0012	0.0025	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.019		0.00067	0.0025	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.020		0.00064	0.0025	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.019		0.00066	0.0025	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.019		0.00062	0.0025	0.0050	mg/Kg
541-73-1	1,3-Dichlorobenzene	0.019		0.0017	0.0025	0.0050	mg/Kg
106-46-7	1,4-Dichlorobenzene	0.020		0.0016	0.0025	0.0050	mg/Kg

Raw Data: **VY023000.D**

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	VY0718SBSD01	SDG No.:	Q2639
Lab Sample ID:	VY0718SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023000.D	1	07/18/25 16:00	VY071825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	0.019		0.0015	0.0025	0.0050	mg/Kg
95-50-1	1,2-Dichlorobenzene	0.020		0.0015	0.0025	0.0050	mg/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.023		0.0018	0.0040	0.0050	mg/Kg
120-82-1	1,2,4-Trichlorobenzene	0.021		0.0030	0.0040	0.0050	mg/Kg
87-68-3	Hexachlorobutadiene	0.020		0.0019	0.0025	0.0050	mg/Kg
87-61-6	1,2,3-Trichlorobenzene	0.022		0.0032	0.0040	0.0050	mg/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.022		0.0011	0.0025	0.0050	mg/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.6		71 - 136		105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		78 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	47.2		85 - 116		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		79 - 119		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	441000	7.707				
540-36-3	1,4-Difluorobenzene	727000	8.609				
3114-55-4	Chlorobenzene-d5	622000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.34				

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

Sample Results: **VY023000.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY0718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	441498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	726763	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	622024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	290368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	235302	52.647	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.300%			
35) Dibromofluoromethane	7.634	113	223340	48.446	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.900%			
50) Toluene-d8	10.103	98	862393	47.172	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.340%			
62) 4-Bromofluorobenzene	12.401	95	265634	46.158	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	74744	19.938	ug/l	96
3) Chloromethane	2.068	50	143371	22.492	ug/l	99
4) Vinyl Chloride	2.202	62	169689	21.012	ug/l	98
5) Bromomethane	2.592	94	143171	24.564	ug/l	96
6) Chloroethane	2.732	64	116712	21.639	ug/l	94
7) Trichlorofluoromethane	3.049	101	199294	21.259	ug/l	97
8) Diethyl Ether	3.452	74	54948	22.395	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	99505	20.206	ug/l	100
10) Methyl Iodide	4.000	142	92236	18.029	ug/l	98
11) Tert butyl alcohol	4.860	59	33272	123.093	ug/l #	86
12) 1,1-Dichloroethene	3.787	96	95020	20.254	ug/l	97
13) Acrolein	3.653	56	21072	165.903	ug/l	99
14) Allyl chloride	4.378	41	145884	20.411	ug/l	98
15) Acrylonitrile	5.061	53	110719	119.137	ug/l	97
16) Acetone	3.866	43	97170	119.939	ug/l	100
17) Carbon Disulfide	4.104	76	288599	20.298	ug/l	98
18) Methyl Acetate	4.391	43	58402	21.292	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	254006	22.573	ug/l	98
20) Methylene Chloride	4.616	84	149748	21.534	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	107229	20.533	ug/l	97
22) Diisopropyl ether	6.018	45	331682	21.875	ug/l	96
23) Vinyl Acetate	5.957	43	910154	119.130	ug/l	97
24) 1,1-Dichloroethane	5.915	63	200869	21.091	ug/l	99
25) 2-Butanone	6.890	43	140232	120.655	ug/l	98
26) 2,2-Dichloropropane	6.878	77	165662	19.848	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	125924	20.923	ug/l	99
28) Bromochloromethane	7.238	49	80178	21.706	ug/l	97
29) Tetrahydrofuran	7.262	42	87651	119.115	ug/l	99
30) Chloroform	7.415	83	200917	20.913	ug/l	98
31) Cyclohexane	7.701	56	175169	19.685	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	179081	20.544	ug/l	99
36) 1,1-Dichloropropene	7.835	75	144552	19.906	ug/l	99
37) Ethyl Acetate	6.982	43	65064	24.125	ug/l	97
38) Carbon Tetrachloride	7.817	117	152517	19.332	ug/l	99
39) Methylcyclohexane	9.109	83	181502	19.311	ug/l	98
40) Benzene	8.079	78	447067	20.447	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY0718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	32685	22.247	ug/l		94
42) 1,2-Dichloroethane	8.158	62	121246	22.289	ug/l		100
43) Isopropyl Acetate	8.195	43	125867	23.495	ug/l	#	86
44) Trichloroethene	8.865	130	109088	19.425	ug/l		98
45) 1,2-Dichloropropane	9.140	63	105365	20.636	ug/l		100
46) Dibromomethane	9.231	93	57491	21.784	ug/l		98
47) Bromodichloromethane	9.420	83	153006	20.974	ug/l		99
48) Methyl methacrylate	9.219	41	56963	22.024	ug/l		97
49) 1,4-Dioxane	9.225	88	13277	477.259	ug/l		93
51) 4-Methyl-2-Pentanone	9.993	43	321913	118.388	ug/l		100
52) Toluene	10.170	92	276910	20.370	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	132598	21.174	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	156932	20.791	ug/l		95
55) 1,1,2-Trichloroethane	10.566	97	76101	21.939	ug/l		98
56) Ethyl methacrylate	10.438	69	96413	22.265	ug/l		99
57) 1,3-Dichloropropane	10.713	76	132512	22.114	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	227470	107.314	ug/l		99
59) 2-Hexanone	10.755	43	211344	118.246	ug/l		99
60) Dibromochloromethane	10.908	129	98399	21.663	ug/l		100
61) 1,2-Dibromoethane	11.011	107	70161	22.273	ug/l		98
64) Tetrachloroethene	10.646	164	118268	18.602	ug/l		99
65) Chlorobenzene	11.438	112	291672	19.871	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.511	131	99858	19.946	ug/l		98
67) Ethyl Benzene	11.517	91	500539	19.239	ug/l		98
68) m/p-Xylenes	11.627	106	383842	38.465	ug/l		99
69) o-Xylene	11.950	106	178419	19.266	ug/l		99
70) Styrene	11.962	104	299288	19.729	ug/l		99
71) Bromoform	12.127	173	53773	21.158	ug/l	#	100
73) Isopropylbenzene	12.249	105	469340	19.065	ug/l		100
74) N-amyl acetate	12.066	43	106978	23.049	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	79332	22.268	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	65738m	18.169	ug/l		
77) Bromobenzene	12.529	156	105831	19.821	ug/l		98
78) n-propylbenzene	12.590	91	571745	19.503	ug/l		99
79) 2-Chlorotoluene	12.676	91	322963	19.588	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	377356	19.435	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	26176	21.548	ug/l		100
82) 4-Chlorotoluene	12.773	91	328021	19.725	ug/l		99
83) tert-Butylbenzene	12.993	119	331779	18.917	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	377381	19.745	ug/l		99
85) sec-Butylbenzene	13.170	105	497483	18.928	ug/l		100
86) p-Isopropyltoluene	13.285	119	411364	19.271	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	208525	19.352	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	208199	19.973	ug/l		99
89) n-Butylbenzene	13.609	91	380572	19.321	ug/l		100
90) Hexachloroethane	13.871	117	85123	19.261	ug/l		100
91) 1,2-Dichlorobenzene	13.651	146	184064	20.251	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12175	23.016	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	100139	20.902	ug/l		98
94) Hexachlorobutadiene	15.017	225	59205	19.601	ug/l		99
95) Naphthalene	15.139	128	170744	22.220	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	85911	21.717	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY0718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

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

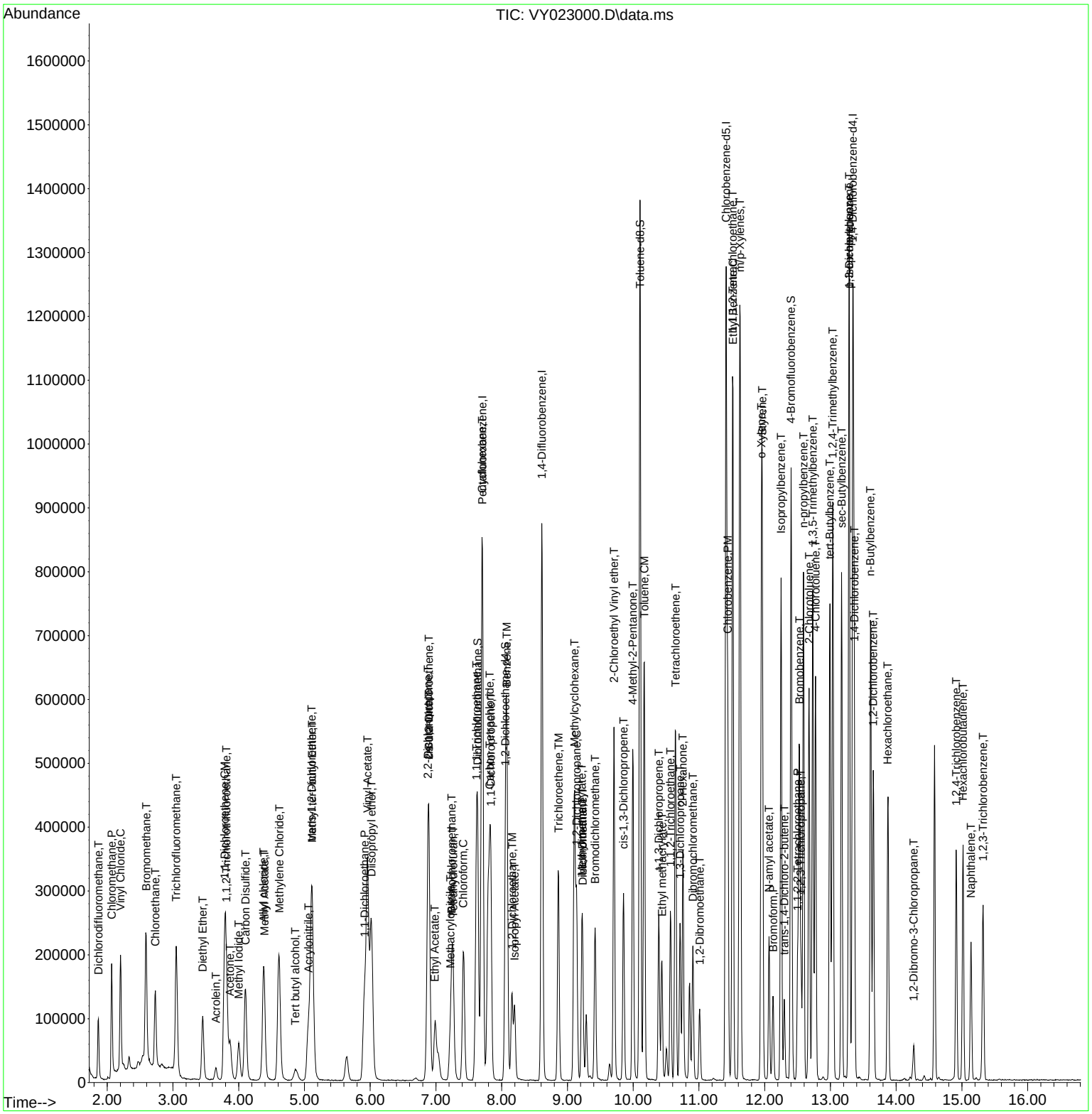
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY0718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

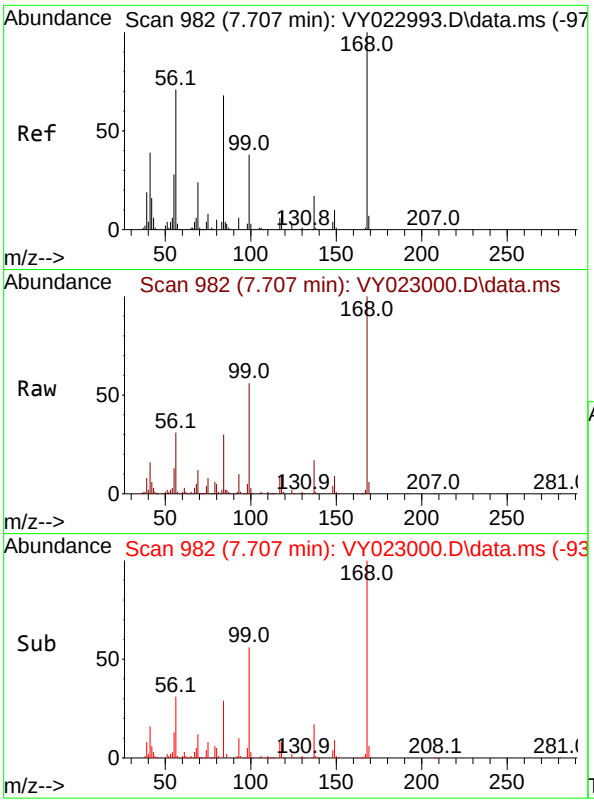
Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

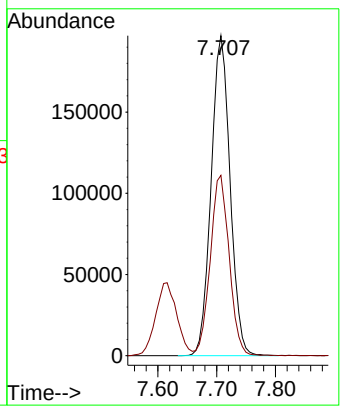




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:168 Resp: 44149

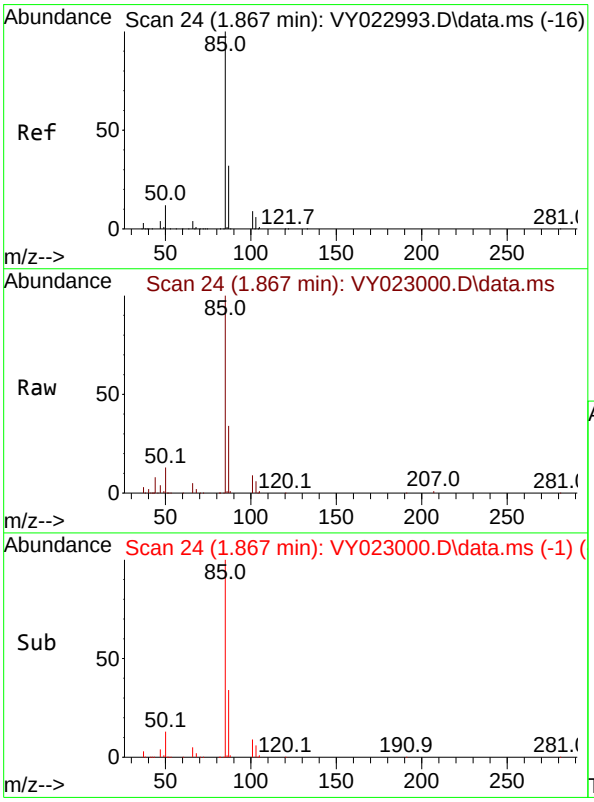
Ion	Ratio	Lower	Upper
168	100		
99	56.3	44.4	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

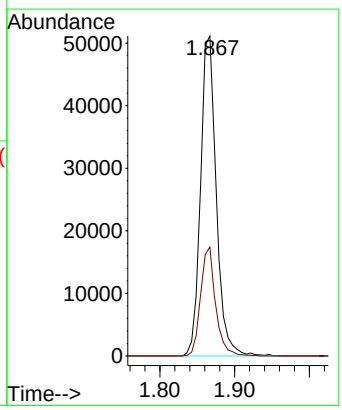
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

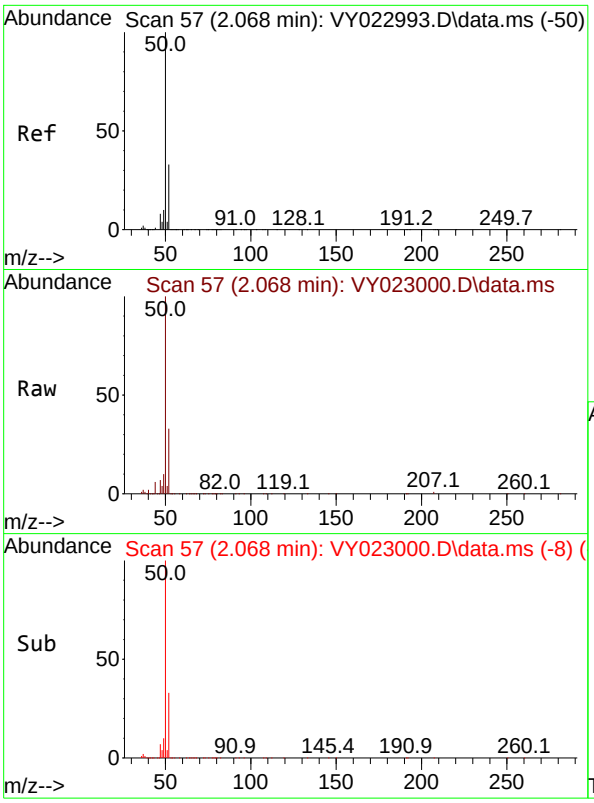


#2
Dichlorodifluoromethane
Concen: 19.938 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 85 Resp: 74744

Ion	Ratio	Lower	Upper
85	100		
87	34.1	16.0	47.9

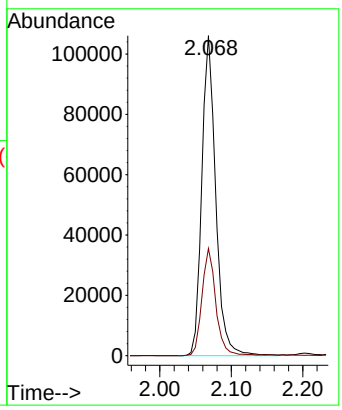




#3
Chloromethane
Concen: 22.492 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 50 Resp: 14337

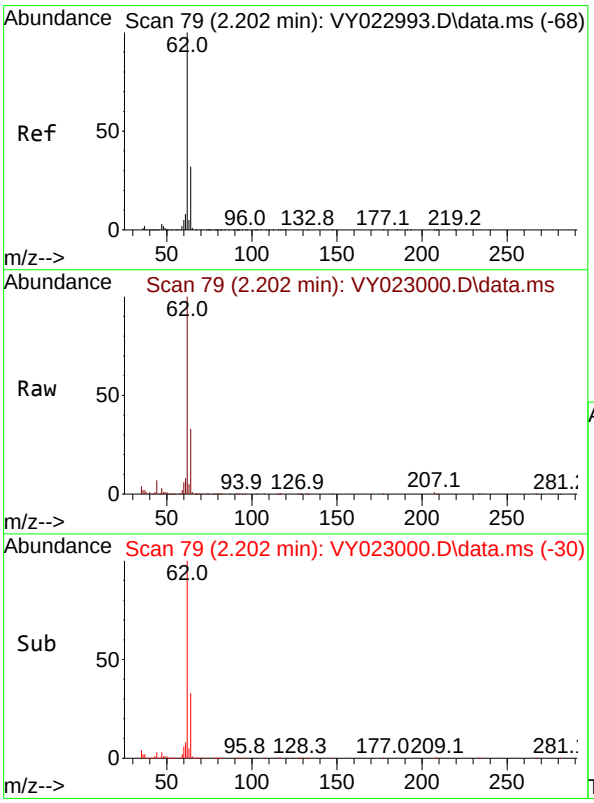
Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.6	39.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

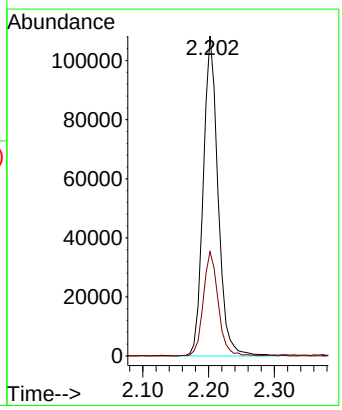
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

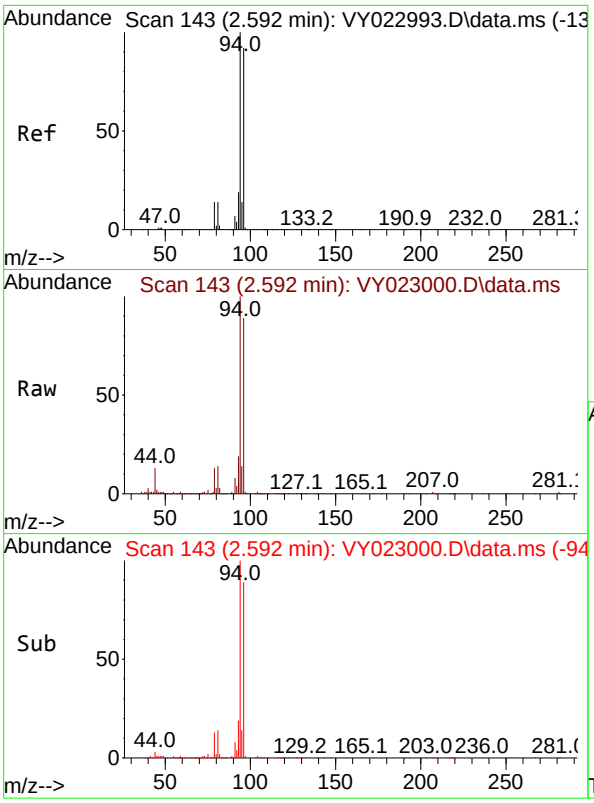


#4
Vinyl Chloride
Concen: 21.012 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 62 Resp: 169689

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.2	37.8

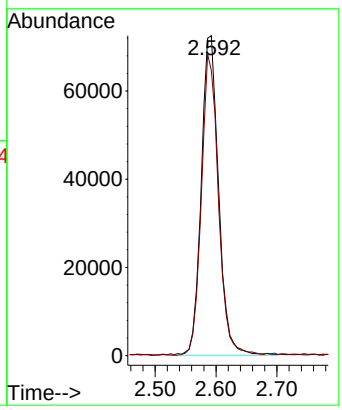




#5
Bromomethane
Concen: 24.564 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 94 Resp: 14317

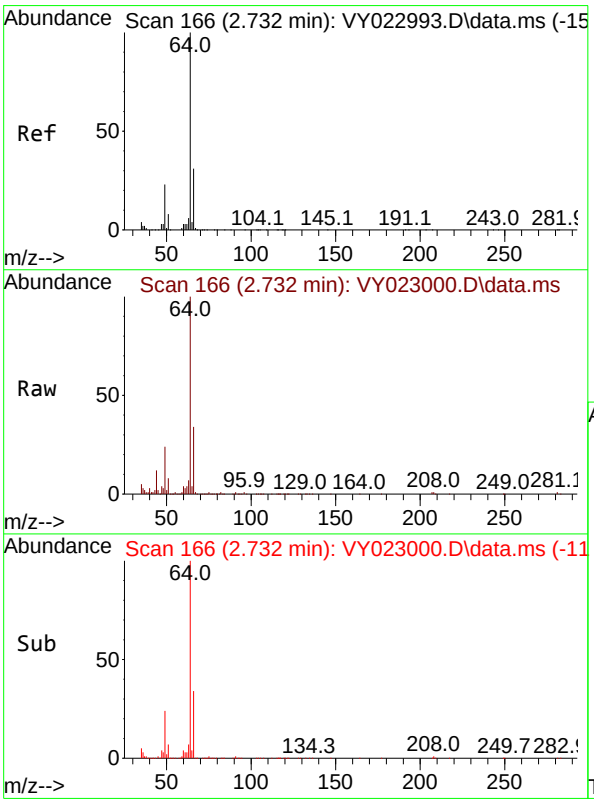
Ion	Ratio	Lower	Upper
94	100		
96	88.9	73.9	110.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

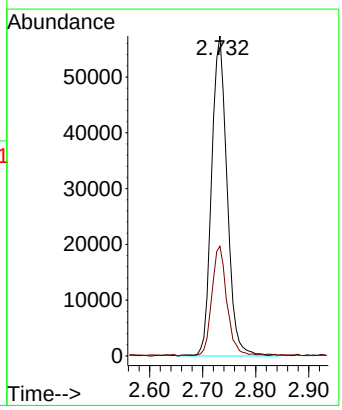
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

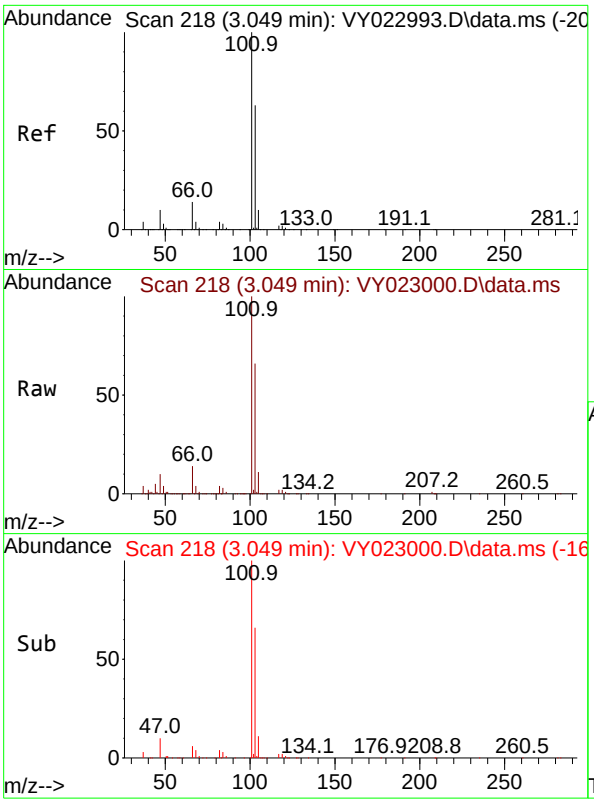


#6
Chloroethane
Concen: 21.639 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 64 Resp: 116712

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.9	37.3

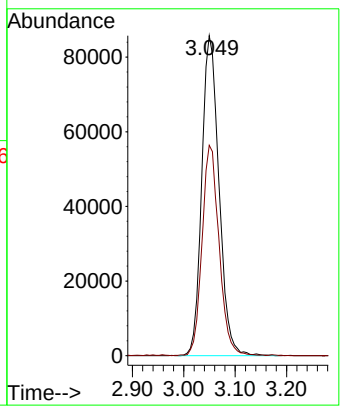




#7
Trichlorofluoromethane
Concen: 21.259 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:101 Resp: 19929

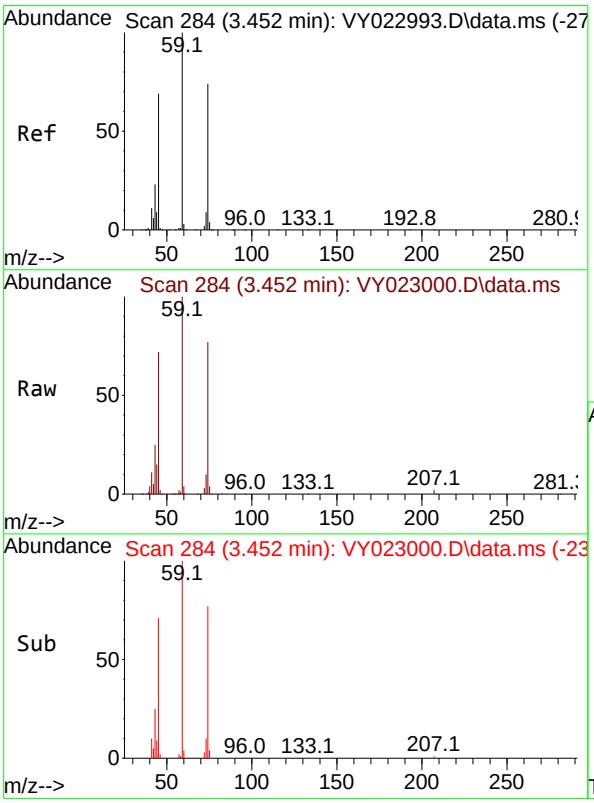
Ion	Ratio	Lower	Upper
101	100		
103	65.7	50.7	76.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

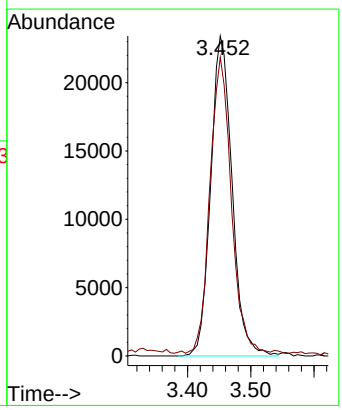
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

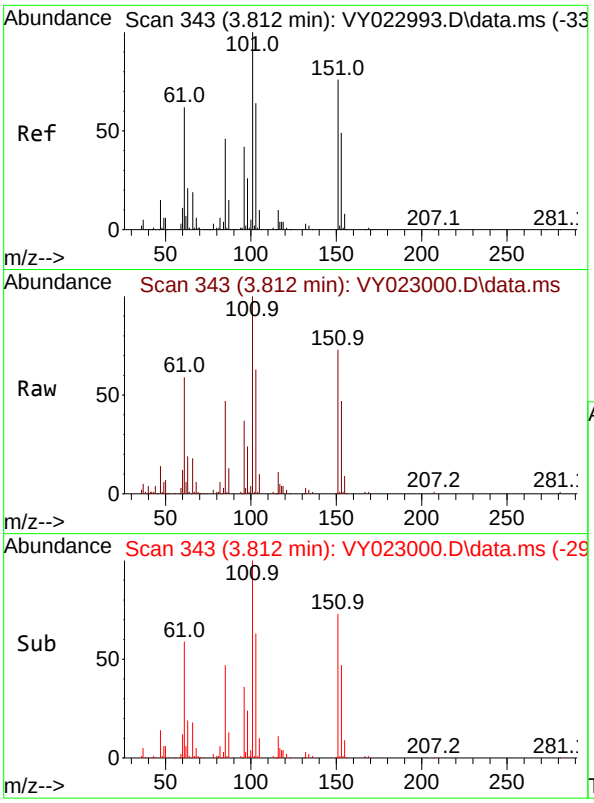


#8
Diethyl Ether
Concen: 22.395 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 74 Resp: 54948

Ion	Ratio	Lower	Upper
74	100		
45	91.9	45.1	135.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.206 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

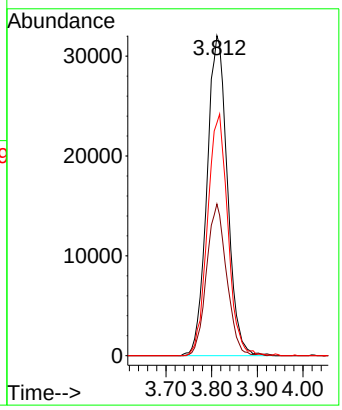
Tgt Ion:101 Resp: 9950

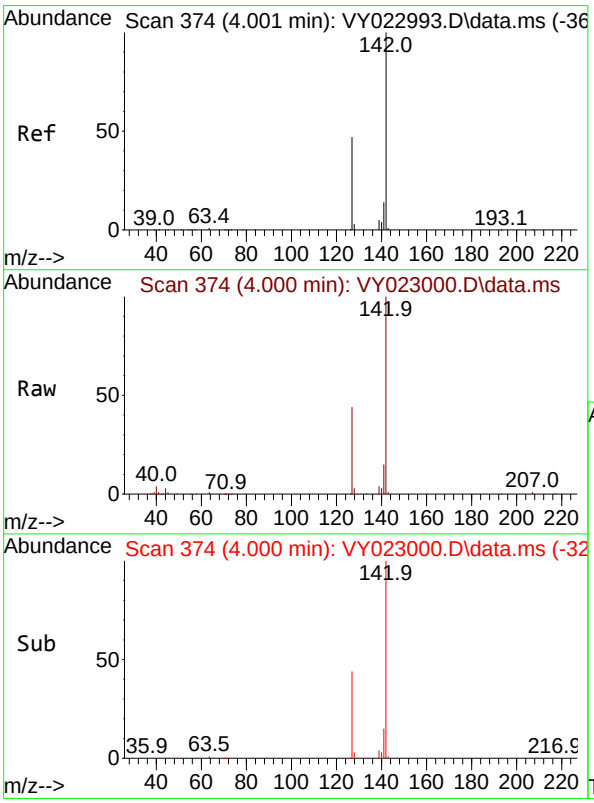
Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.2	55.8
151	75.2	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

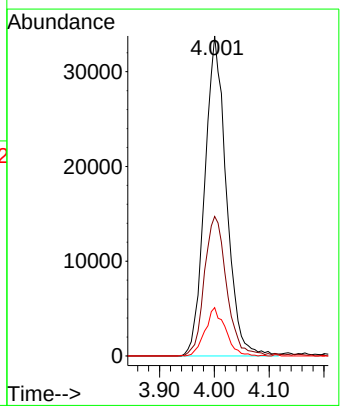


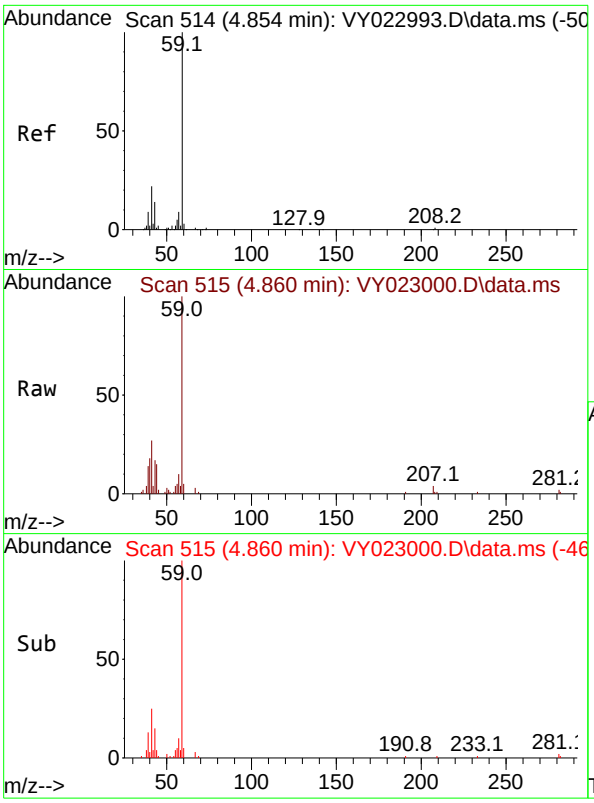


#10
Methyl Iodide
Concen: 18.029 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:142 Resp: 92236

Ion	Ratio	Lower	Upper
142	100		
127	44.9	37.0	55.6
141	14.2	11.4	17.2

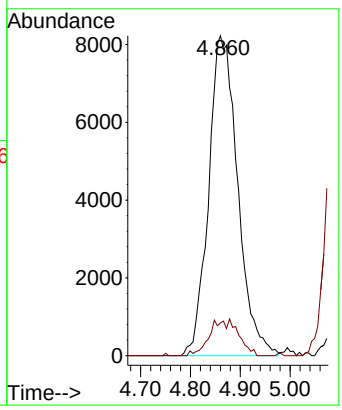




#11
Tert butyl alcohol
Concen: 123.093 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 59 Resp: 3327

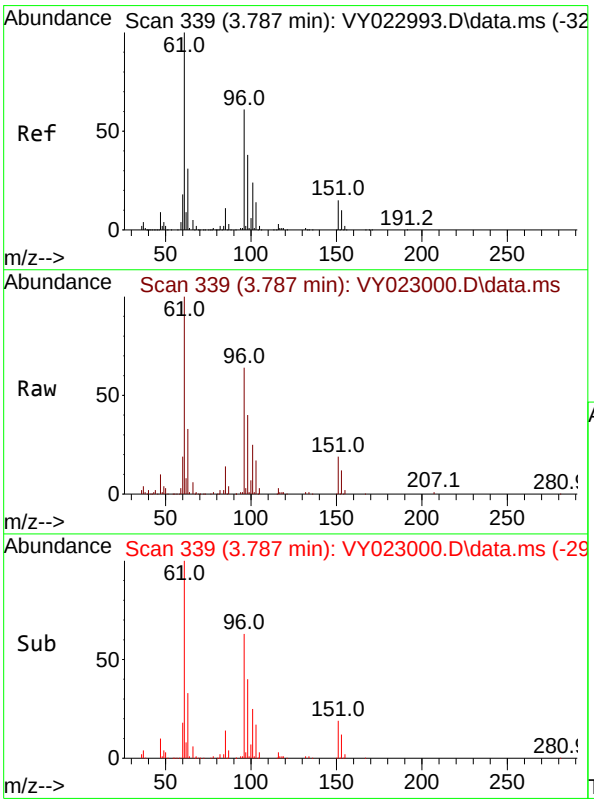
Ion	Ratio	Lower	Upper
59	100		
57	5.0	8.2	12.2#



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

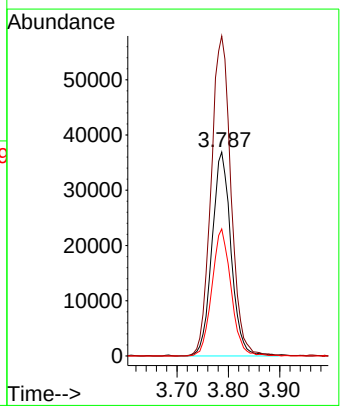
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

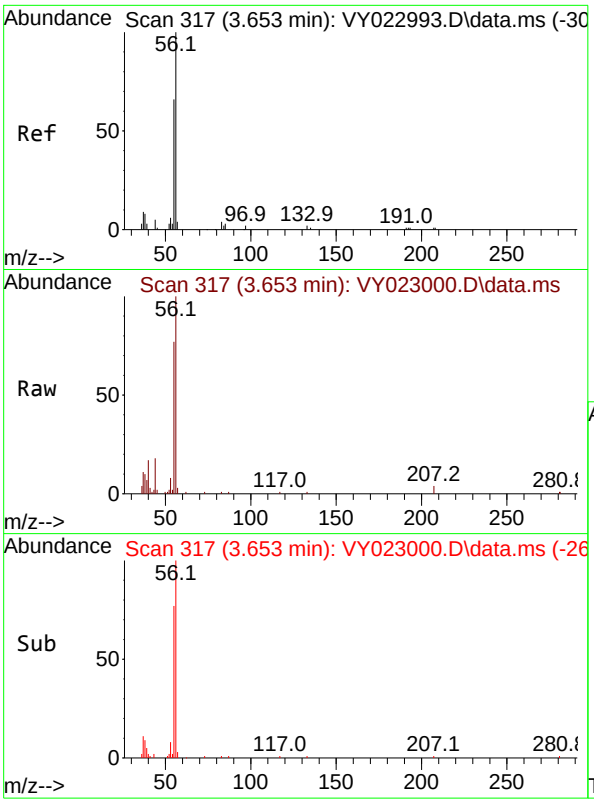


#12
1,1-Dichloroethene
Concen: 20.254 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 96 Resp: 95020

Ion	Ratio	Lower	Upper
96	100		
61	157.0	130.4	195.6
98	62.3	49.6	74.4





#13
Acrolein
Concen: 165.903 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

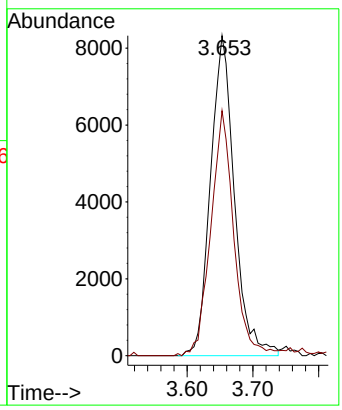
Tgt Ion: 56 Resp: 2107

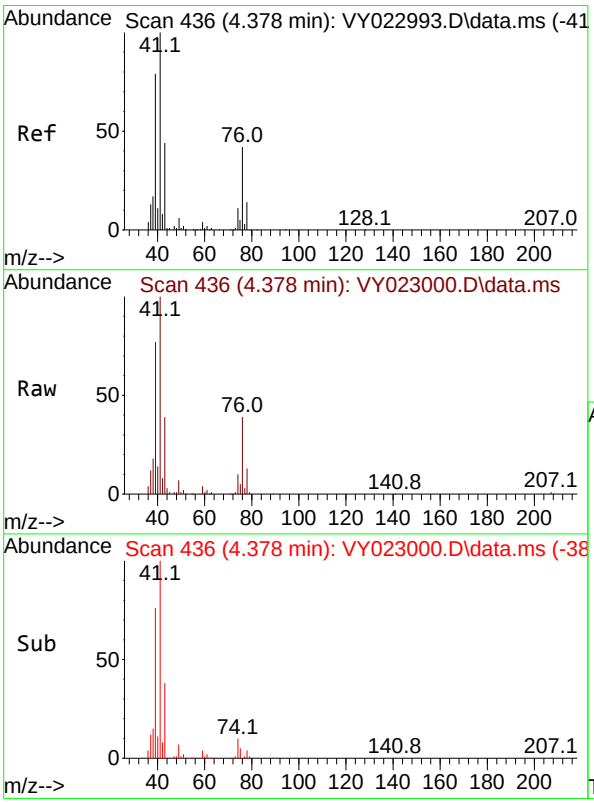
Ion	Ratio	Lower	Upper
56	100		
55	73.4	57.8	86.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

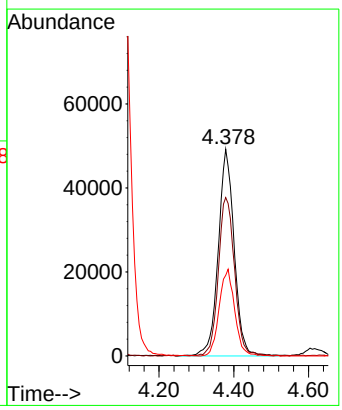


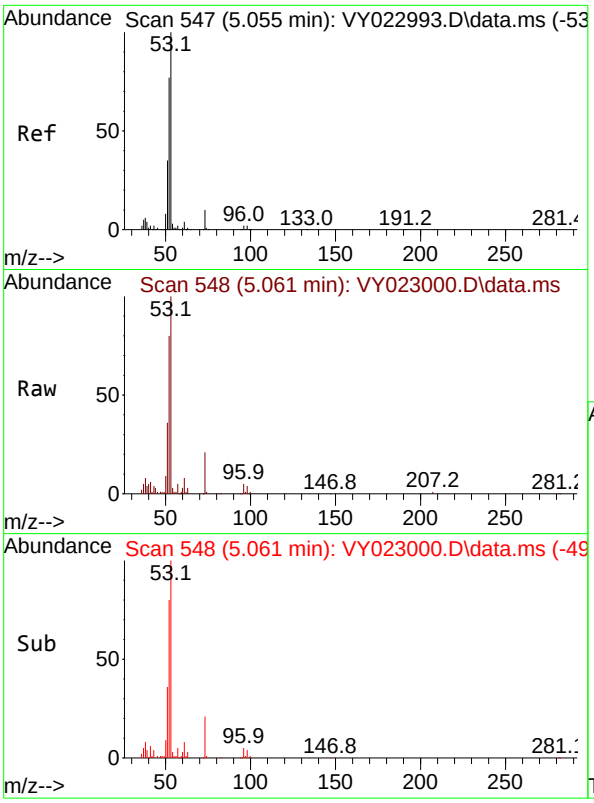


#14
Allyl chloride
Concen: 20.411 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 41 Resp: 145884

Ion	Ratio	Lower	Upper
41	100		
39	77.5	60.1	90.1
76	40.8	32.2	48.4

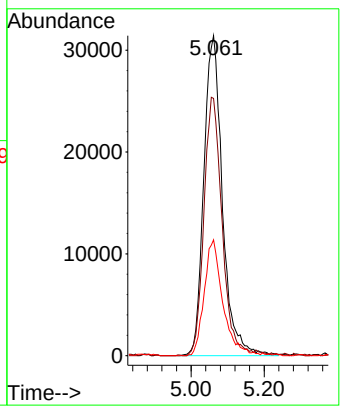




#15
Acrylonitrile
Concen: 119.137 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 53 Resp: 110719

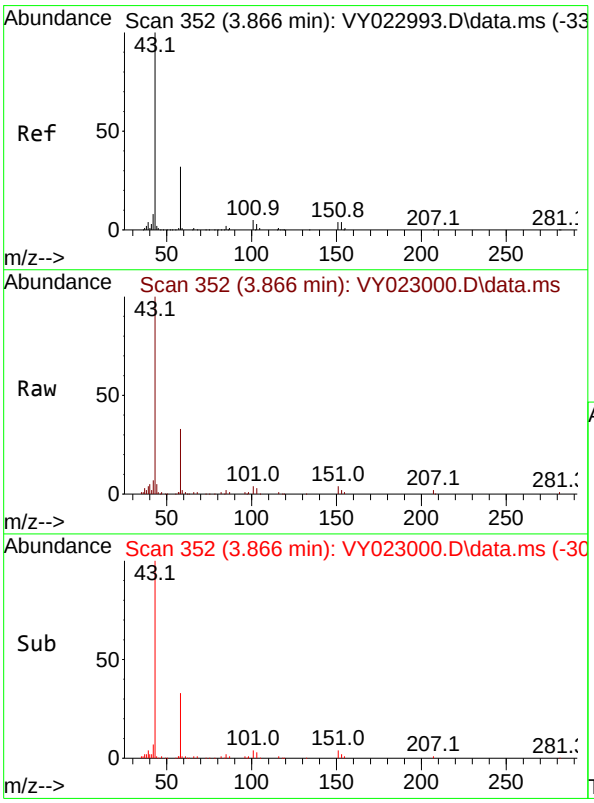
Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.2	97.8
51	36.3	30.3	45.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

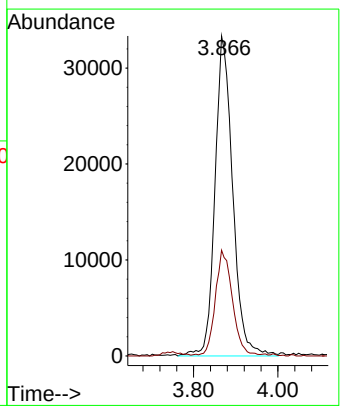
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

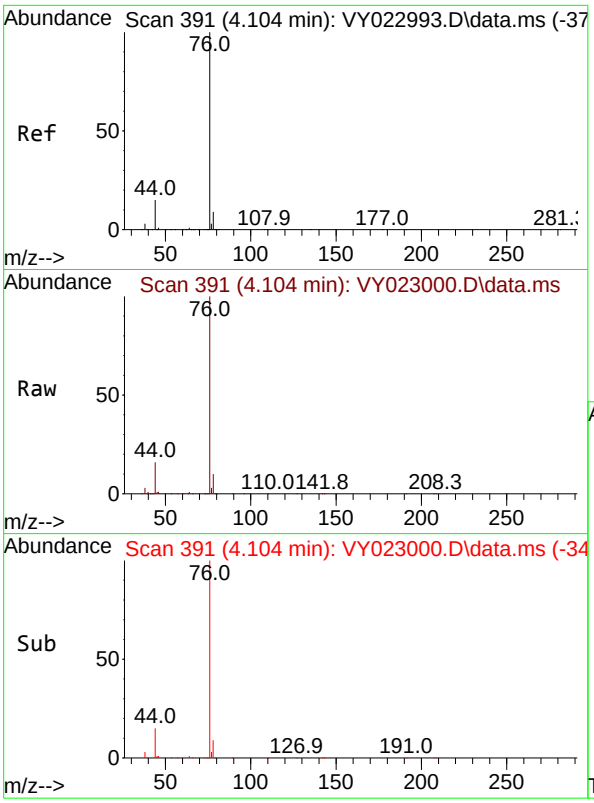


#16
Acetone
Concen: 119.939 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 43 Resp: 97170

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.2	39.4

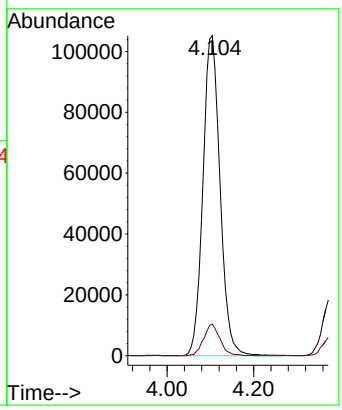




#17
Carbon Disulfide
Concen: 20.298 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 76 Resp: 28859

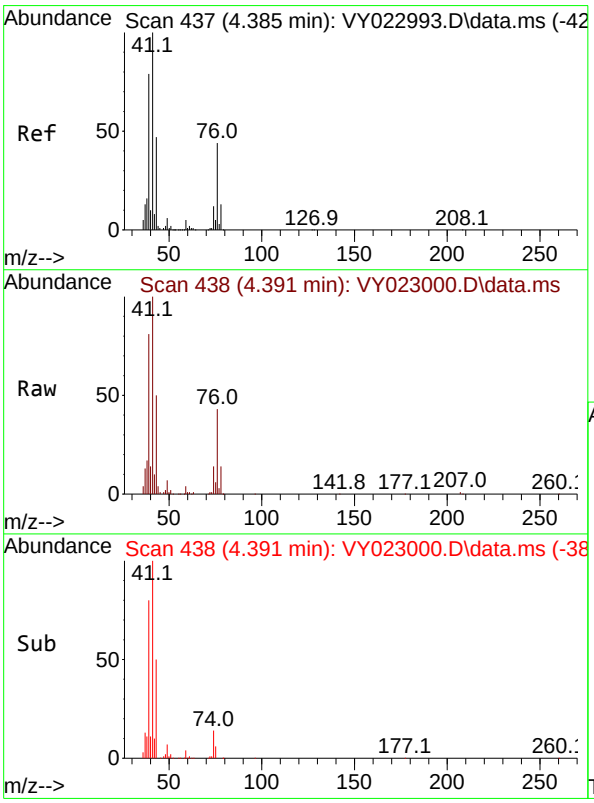
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.4	11.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

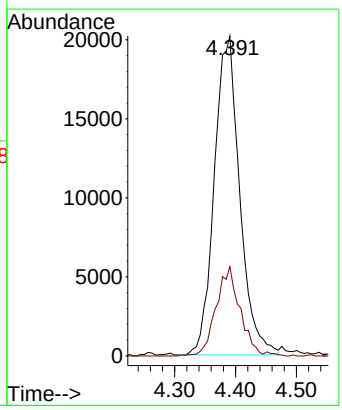
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

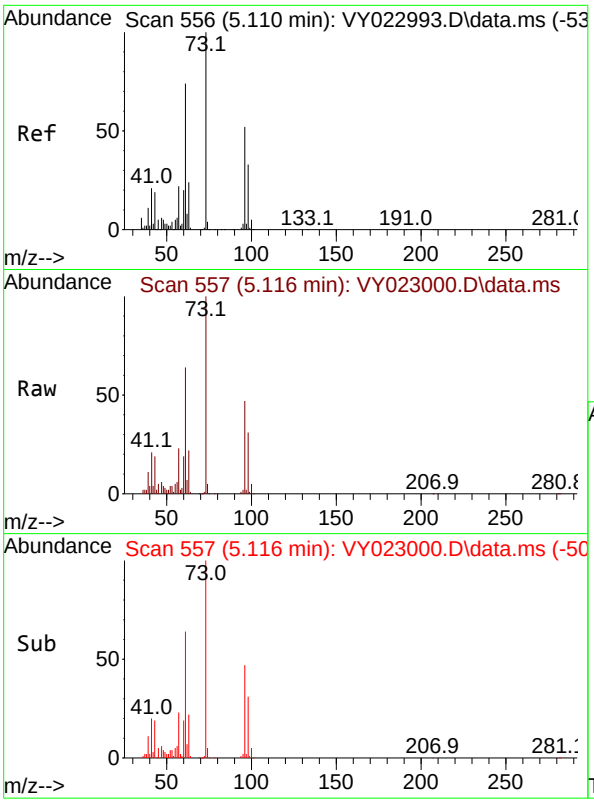


#18
Methyl Acetate
Concen: 21.292 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 43 Resp: 58402

Ion	Ratio	Lower	Upper
43	100		
74	26.2	20.1	30.1

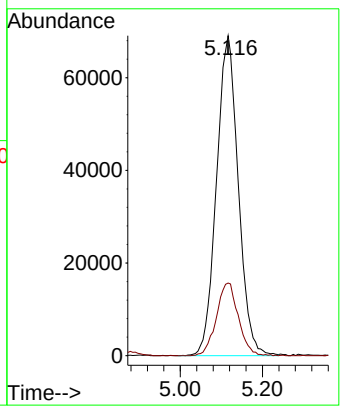




#19
Methyl tert-butyl Ether
Concen: 22.573 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 73 Resp: 25400

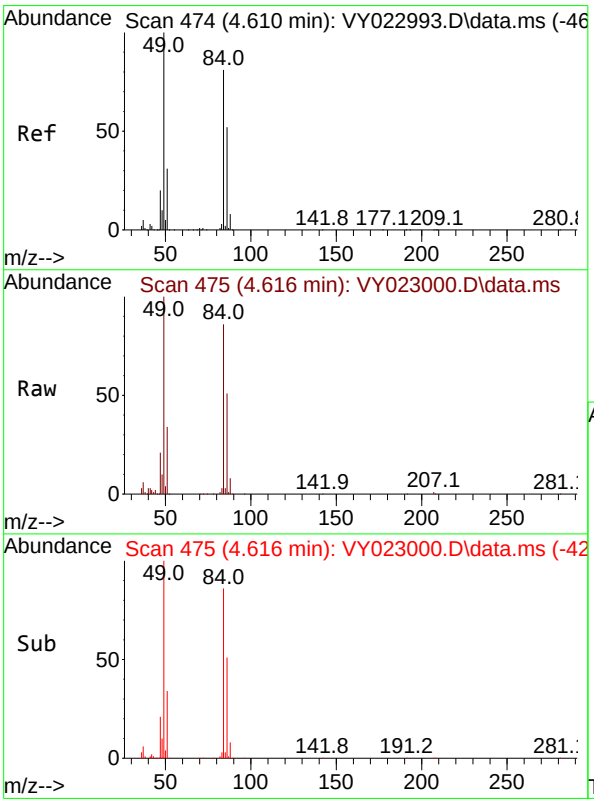
Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

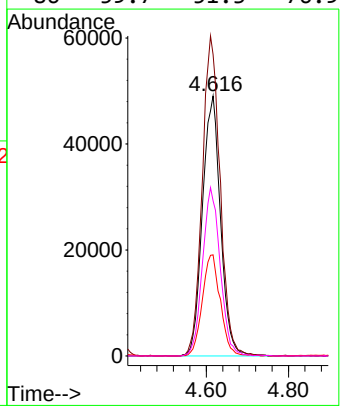
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

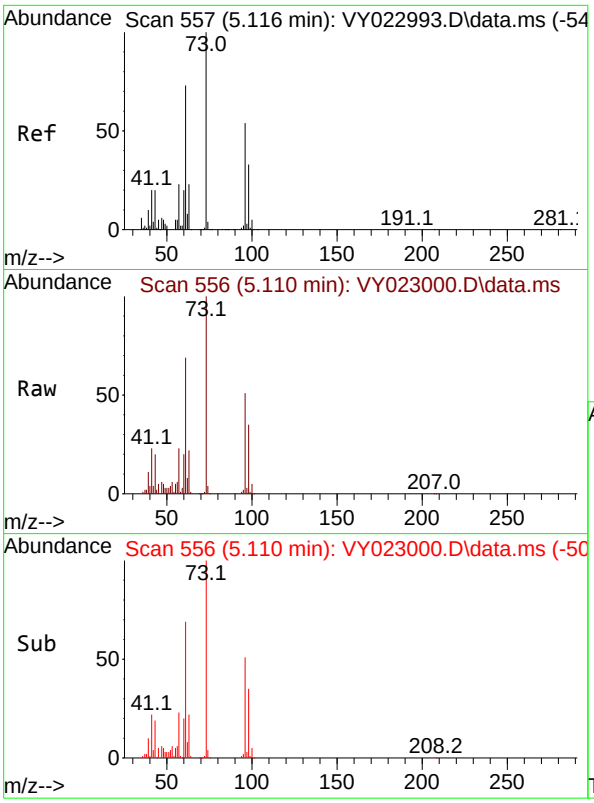


#20
Methylene Chloride
Concen: 21.534 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 84 Resp: 149748

Ion	Ratio	Lower	Upper
84	100		
49	115.9	98.2	147.4
51	38.9	30.5	45.7
86	59.7	51.3	76.9





#21
trans-1,2-Dichloroethene
Concen: 20.533 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

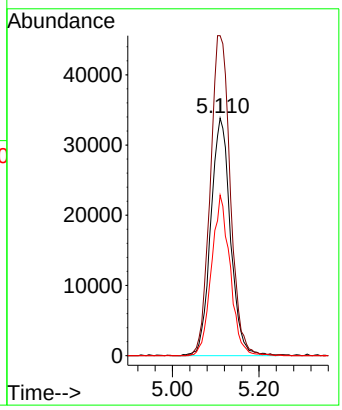
Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

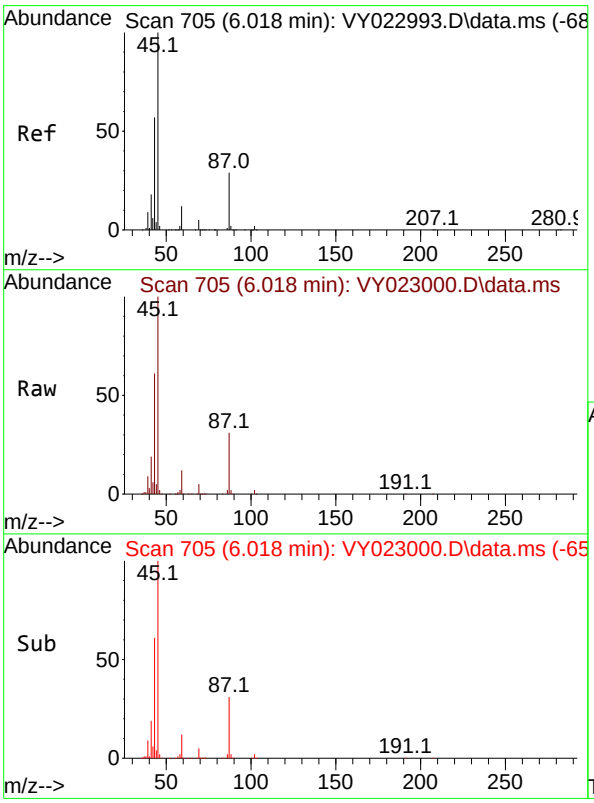
Tgt Ion: 96 Resp: 10722

Ion	Ratio	Lower	Upper
96	100		
61	134.6	107.4	161.2
98	67.5	49.3	73.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

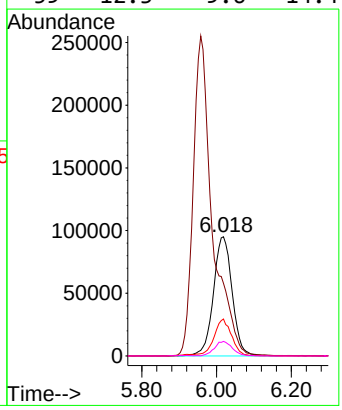


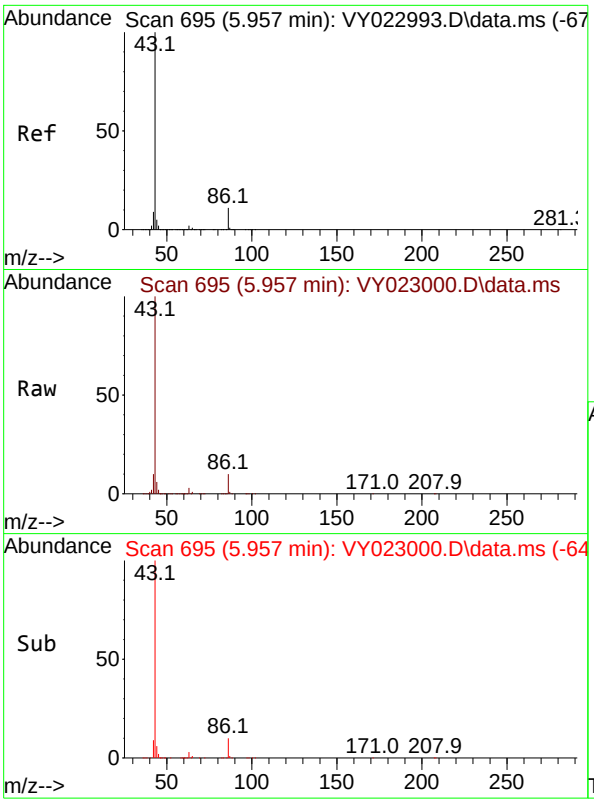


#22
Diisopropyl ether
Concen: 21.875 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 45 Resp: 331682

Ion	Ratio	Lower	Upper
45	100		
43	60.5	45.3	67.9
87	31.1	23.3	34.9
59	12.3	9.6	14.4





#23
Vinyl Acetate
Concen: 119.130 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

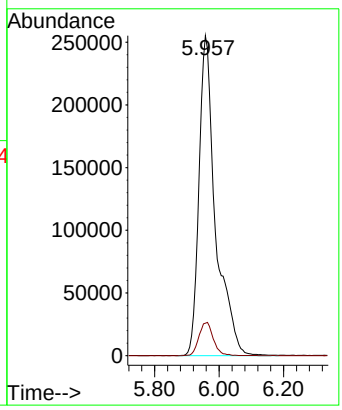
Tgt Ion: 43 Resp: 91015

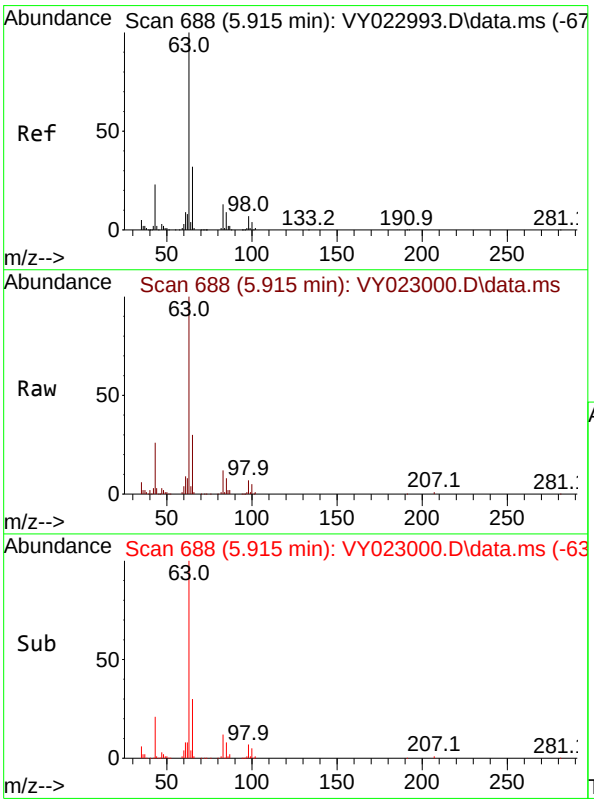
Ion	Ratio	Lower	Upper
43	100		
86	10.1	9.0	13.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

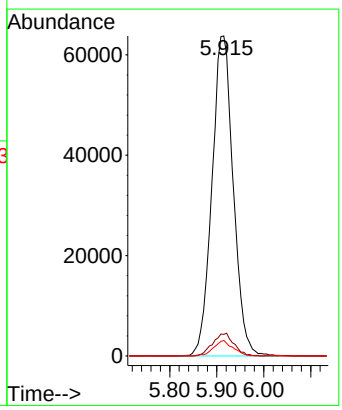


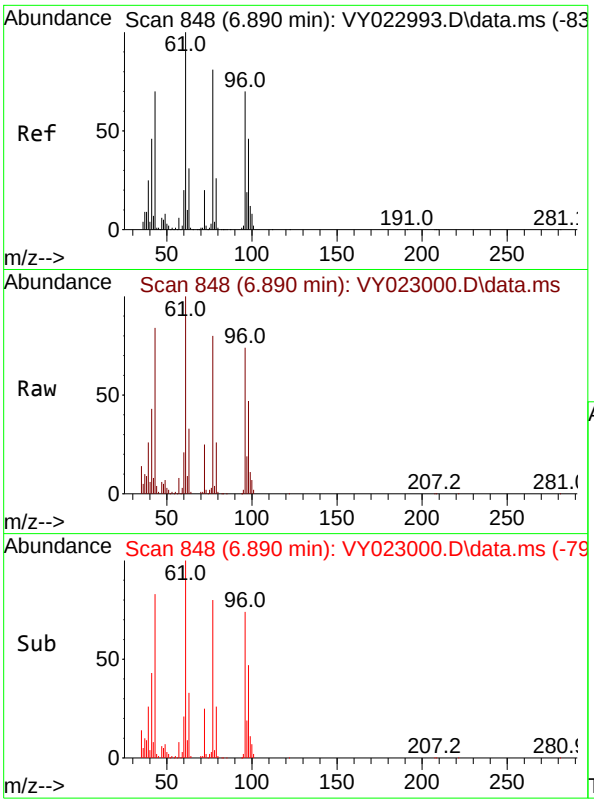


#24
1,1-Dichloroethane
Concen: 21.091 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 63 Resp: 200869

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.9	2.1	6.2





#25
2-Butanone
Concen: 120.655 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

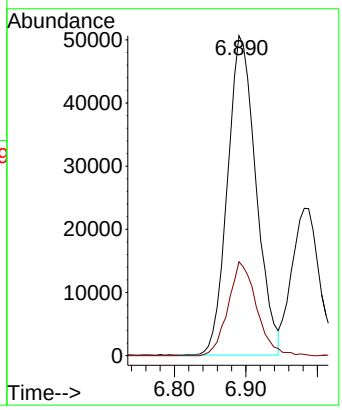
Tgt Ion: 43 Resp: 14023

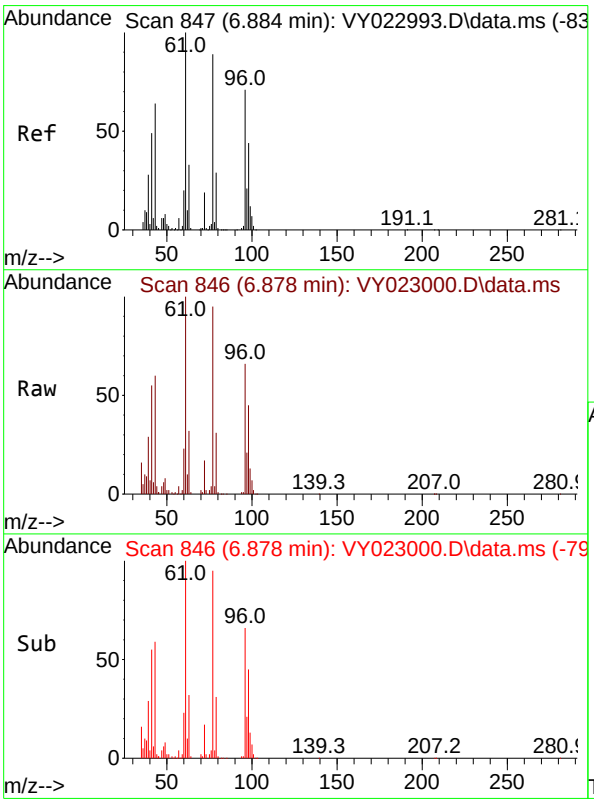
Ion	Ratio	Lower	Upper
43	100		
72	29.4	22.9	34.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

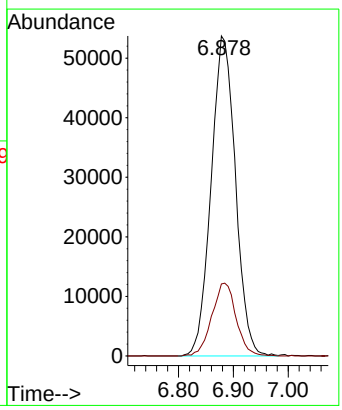


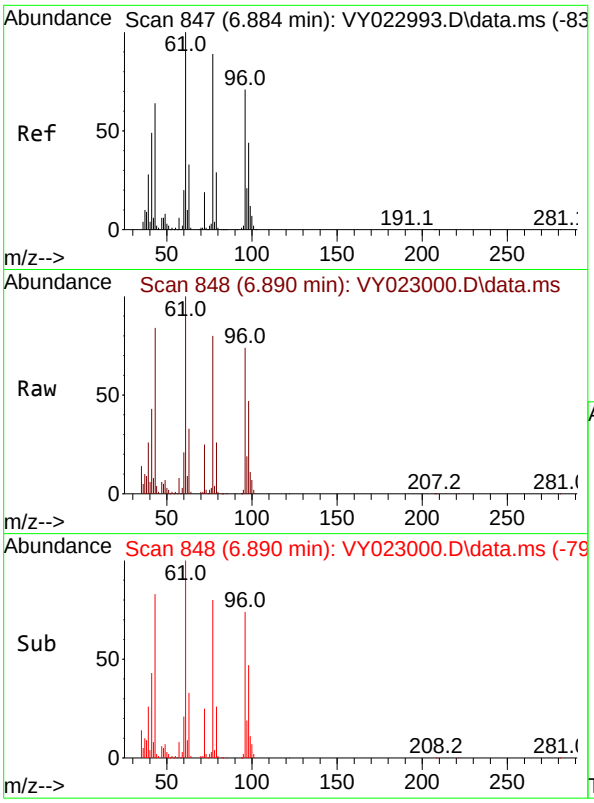


#26
2,2-Dichloropropane
Concen: 19.848 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 77 Resp: 165662

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.3	33.9





#27
cis-1,2-Dichloroethene
Concen: 20.923 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

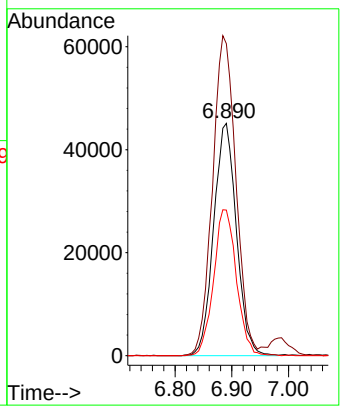
Tgt Ion: 96 Resp: 12592

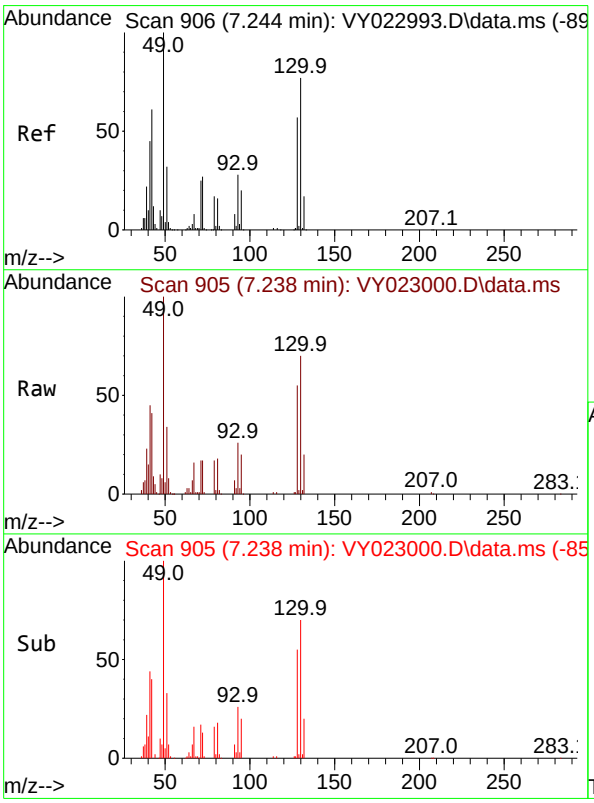
Ion	Ratio	Lower	Upper
96	100		
61	142.2	0.0	286.2
98	62.9	0.0	127.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

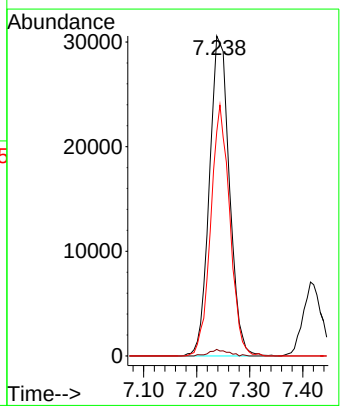


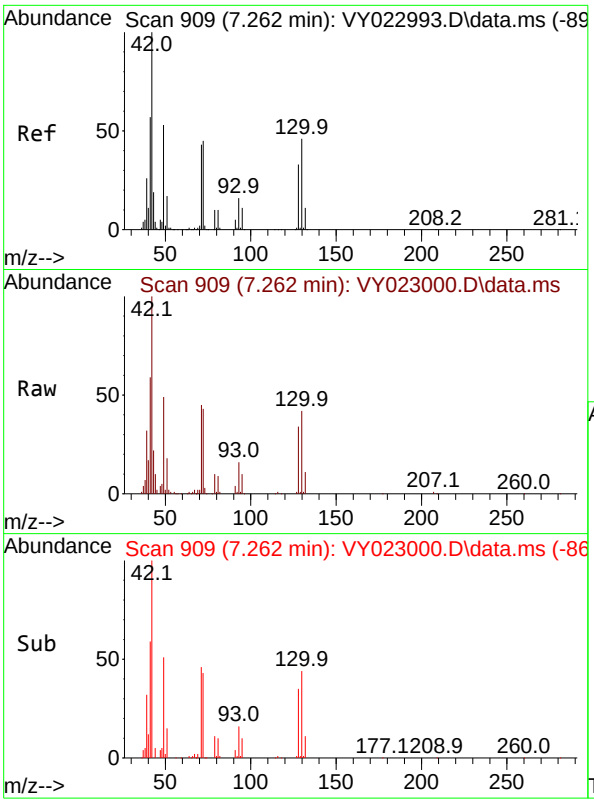


#28
Bromochloromethane
Concen: 21.706 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 49 Resp: 80178

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	74.6	61.8	92.8

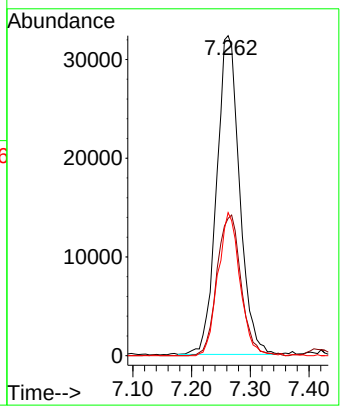




#29
Tetrahydrofuran
Concen: 119.115 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 42 Resp: 8765

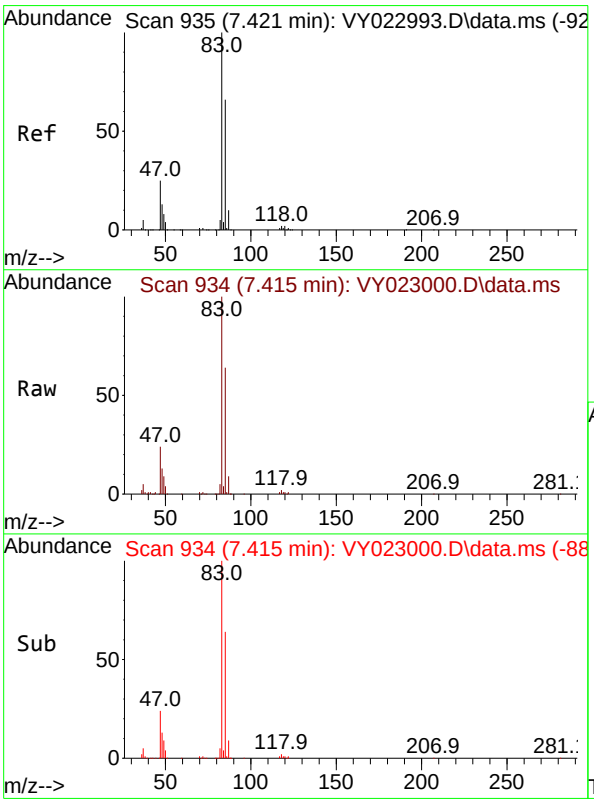
Ion	Ratio	Lower	Upper
42	100		
72	46.5	37.5	56.3
71	43.4	34.2	51.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

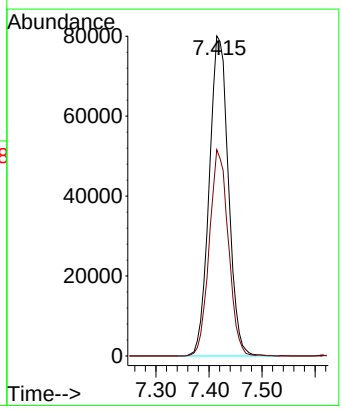
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

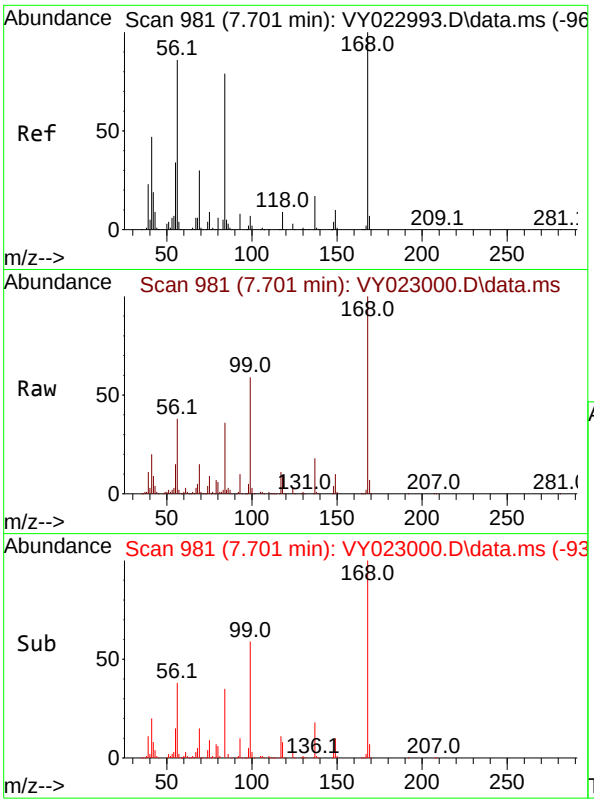


#30
Chloroform
Concen: 20.913 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 83 Resp: 200917

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.6	78.8





#31
Cyclohexane
Concen: 19.685 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

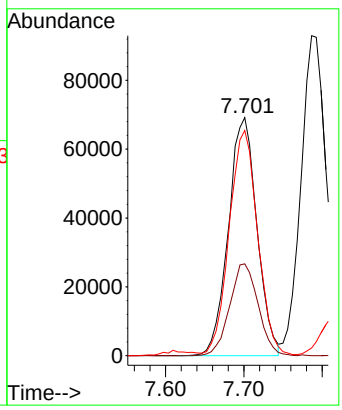
Tgt Ion: 56 Resp: 17516

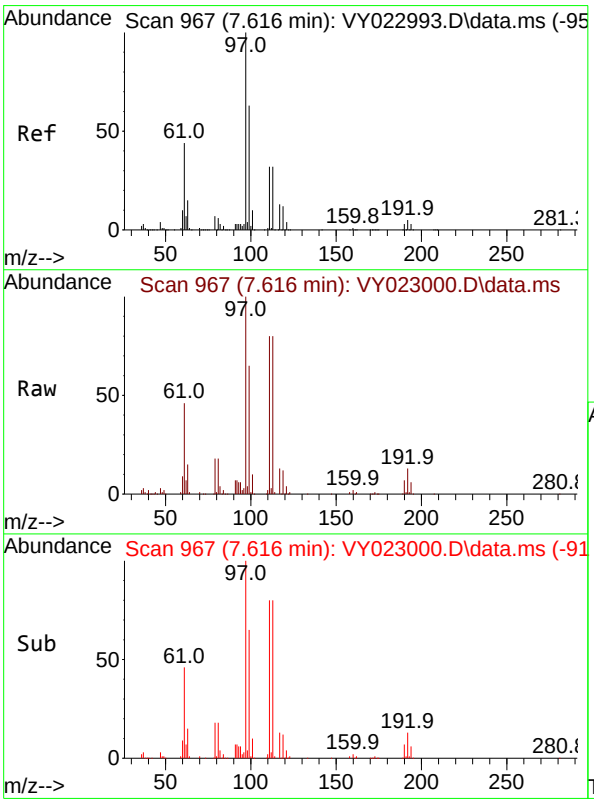
Ion	Ratio	Lower	Upper
56	100		
69	38.5	28.1	42.1
84	93.0	73.5	110.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

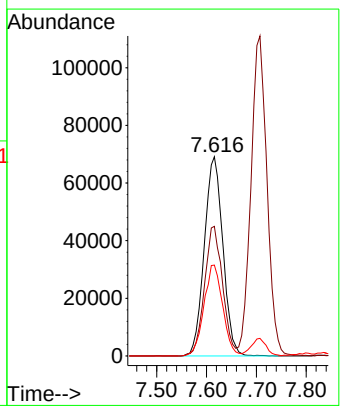


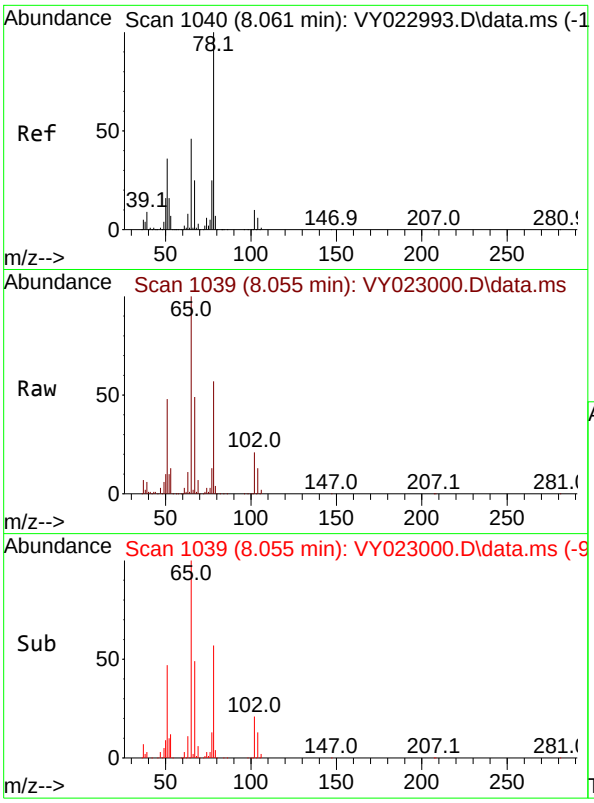


#32
1,1,1-Trichloroethane
Concen: 20.544 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 97 Resp: 179081

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.1	76.7
61	46.0	36.1	54.1





#33
1,2-Dichloroethane-d4
Concen: 52.647 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

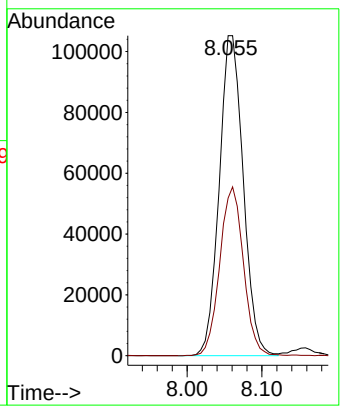
Tgt Ion: 65 Resp: 23530

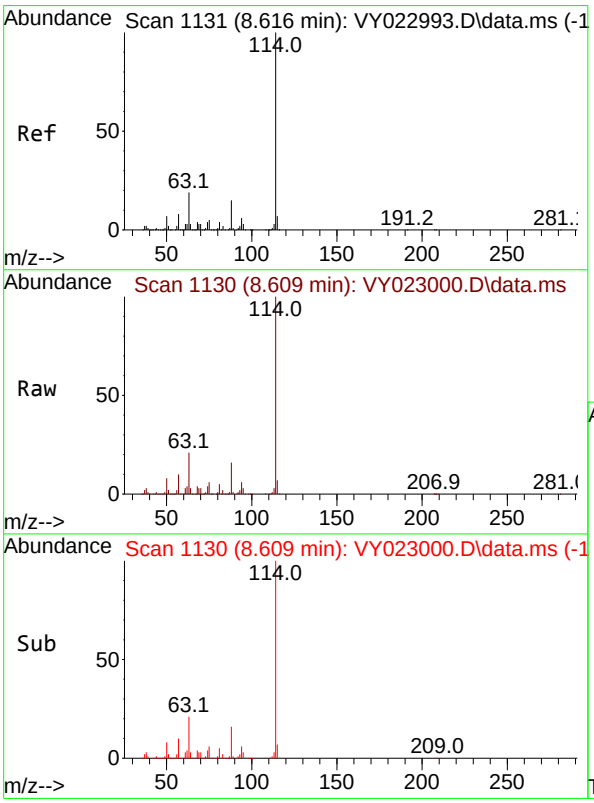
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	107.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

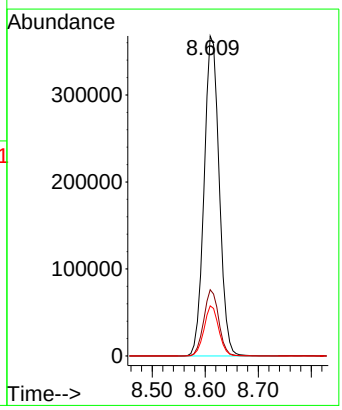


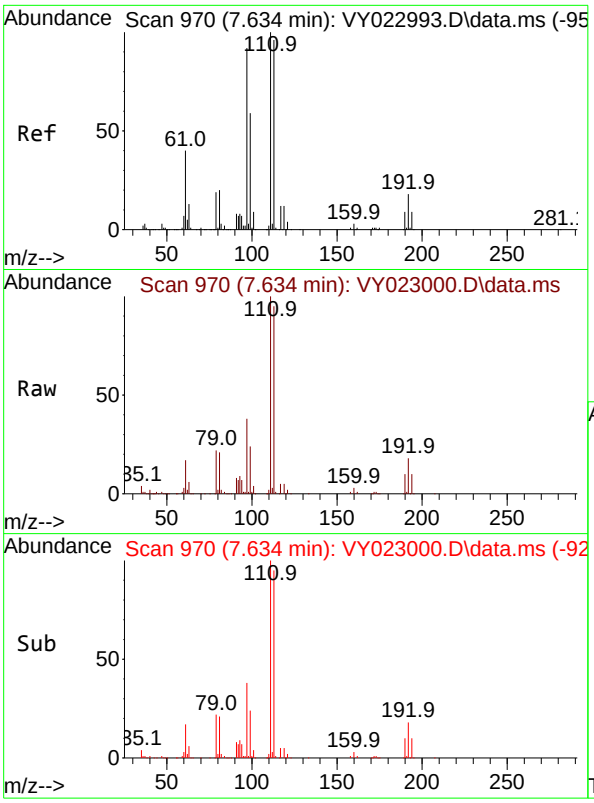


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:114 Resp: 726763

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	38.8
88	15.6	0.0	30.2

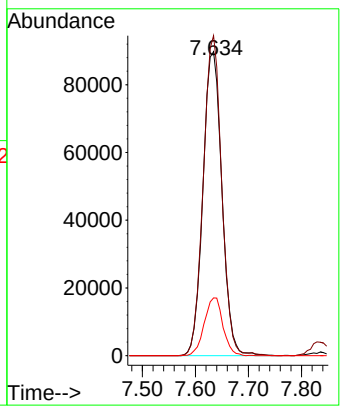




#35
Dibromofluoromethane
Concen: 48.446 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:113 Resp: 22334

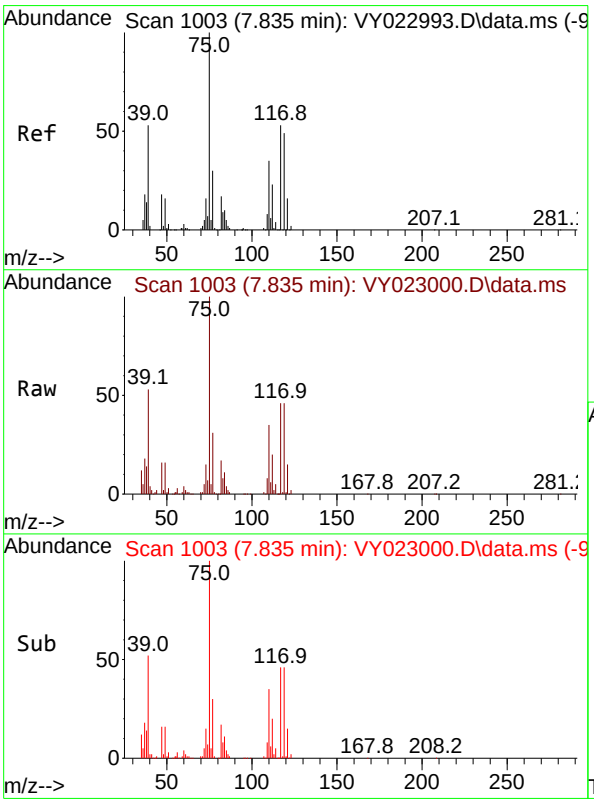
Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.2	124.8
192	18.7	15.3	22.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

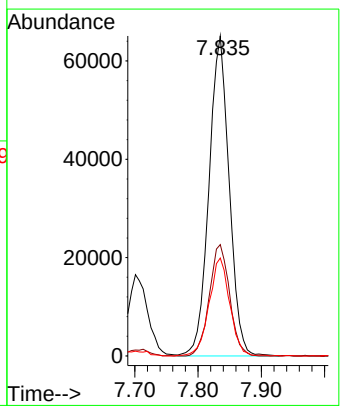
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

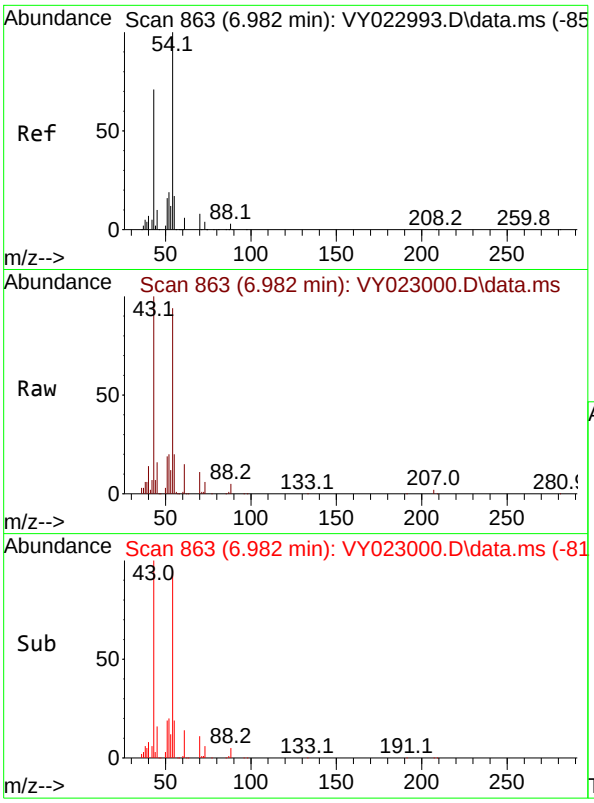


#36
1,1-Dichloropropene
Concen: 19.906 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 144552

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.3	51.9
77	31.3	24.6	37.0





#37
Ethyl Acetate
Concen: 24.125 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

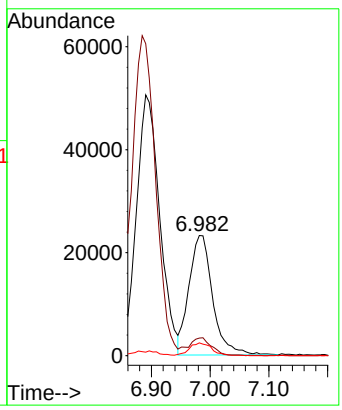
Tgt Ion: 43 Resp: 6506

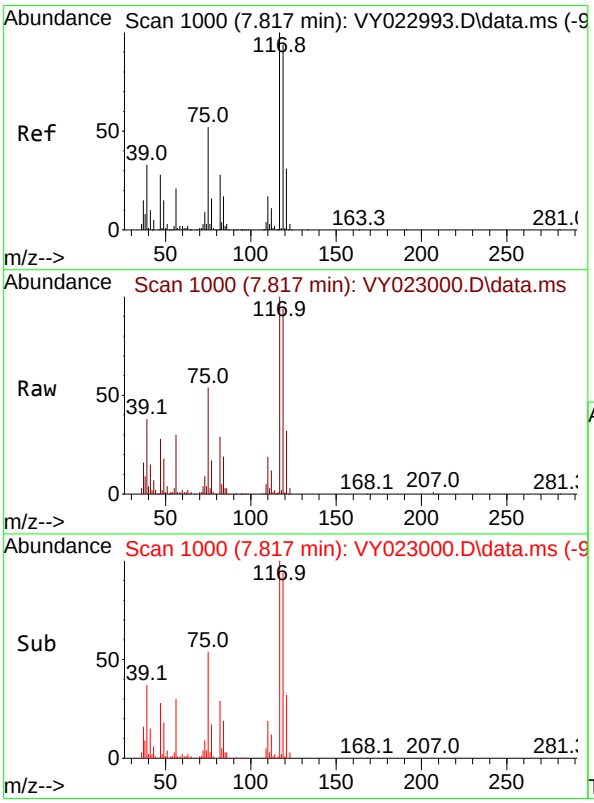
Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.6	17.4
70	10.2	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

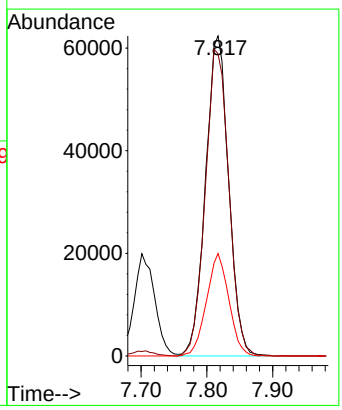


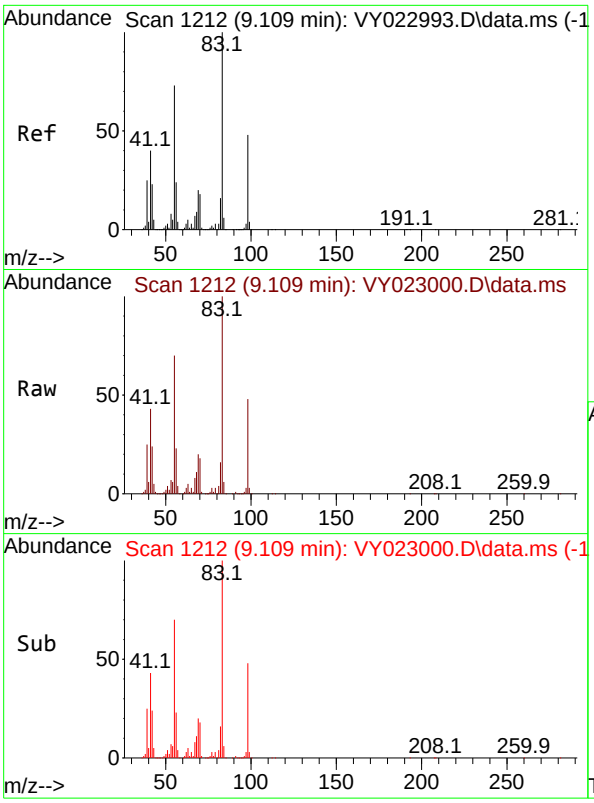


#38
Carbon Tetrachloride
Concen: 19.332 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:117 Resp: 152517

Ion	Ratio	Lower	Upper
117	100		
119	94.4	74.9	112.3
121	32.0	24.6	37.0





#39
Methylcyclohexane
Concen: 19.311 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

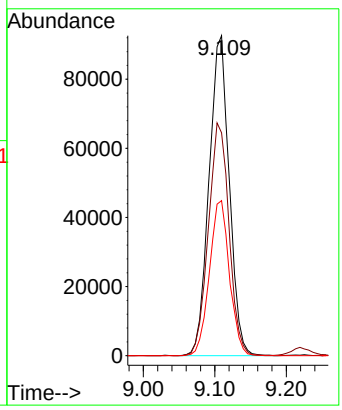
Tgt Ion: 83 Resp: 18150

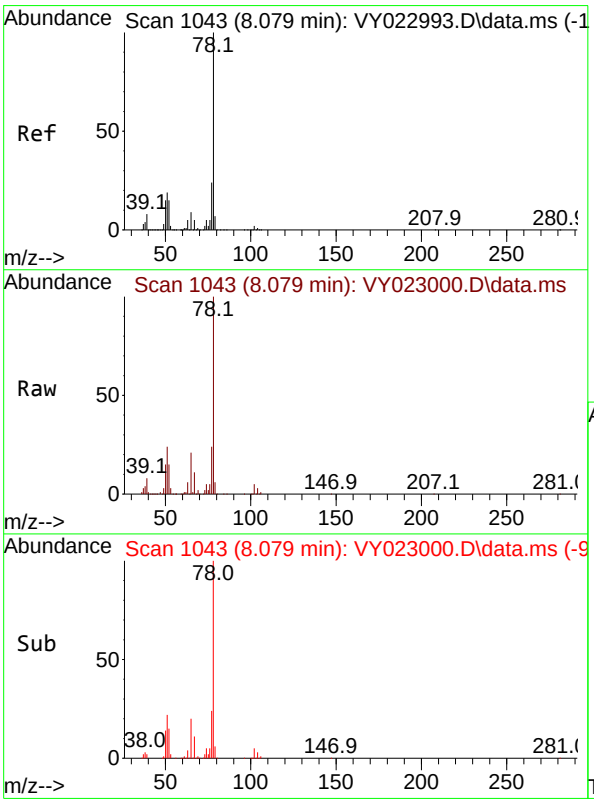
Ion	Ratio	Lower	Upper
83	100		
55	69.7	58.1	87.1
98	48.4	38.5	57.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

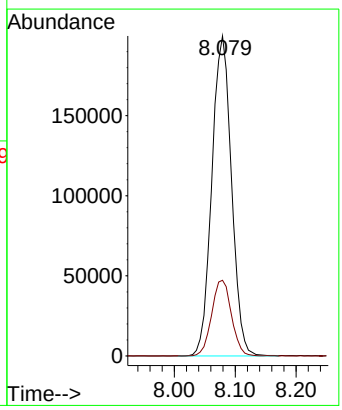


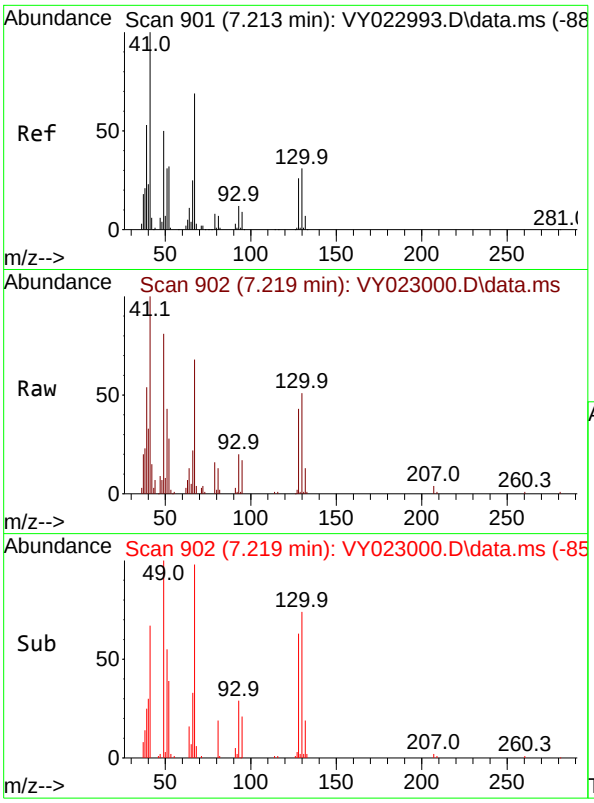


#40
Benzene
Concen: 20.447 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 78 Resp: 447067

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4

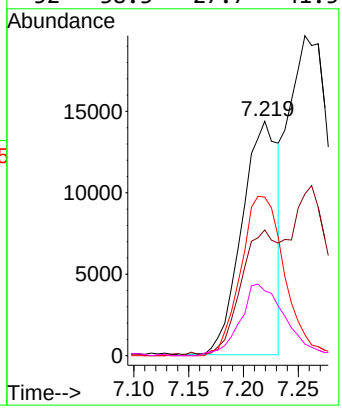




#41
Methacrylonitrile
Concen: 22.247 ug/l
RT: 7.219 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 41 Resp: 3268

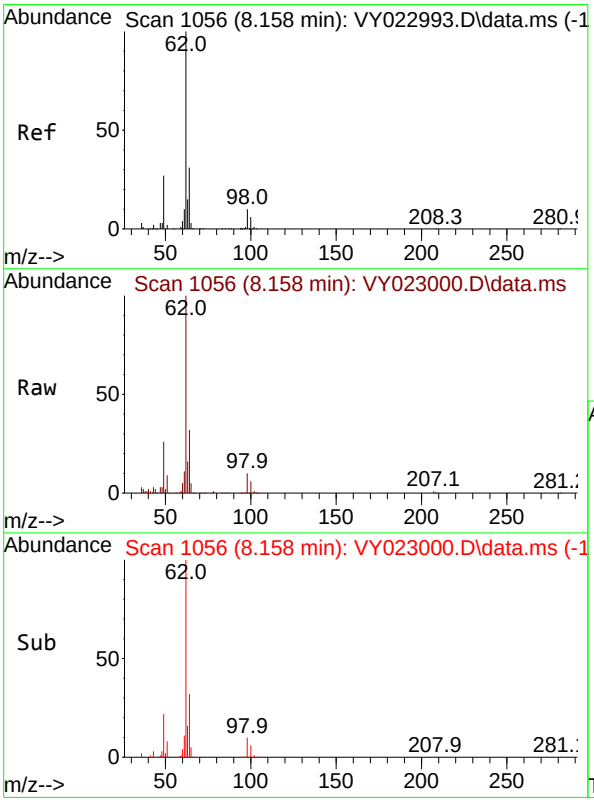
Ion	Ratio	Lower	Upper
41	100		
39	54.0	50.0	75.0
67	83.2	65.4	98.2
52	38.3	27.7	41.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

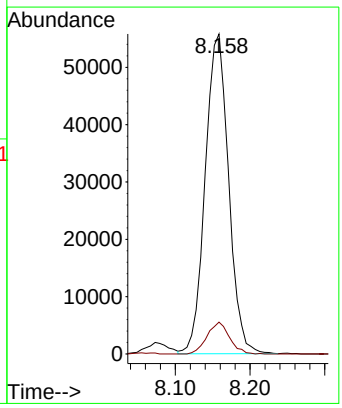
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

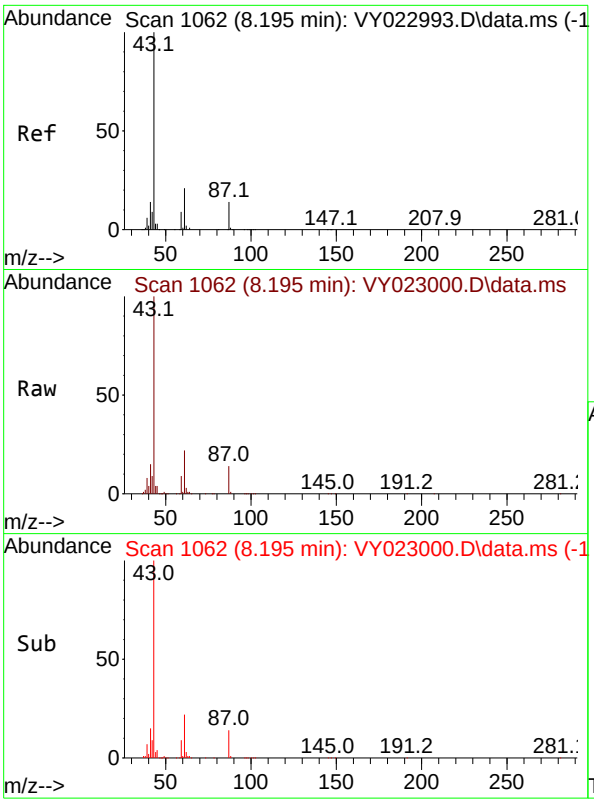


#42
1,2-Dichloroethane
Concen: 22.289 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 62 Resp: 121246

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0





#43
Isopropyl Acetate
Concen: 23.495 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

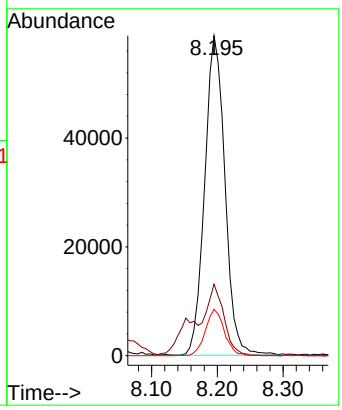
Tgt Ion: 43 Resp: 12586

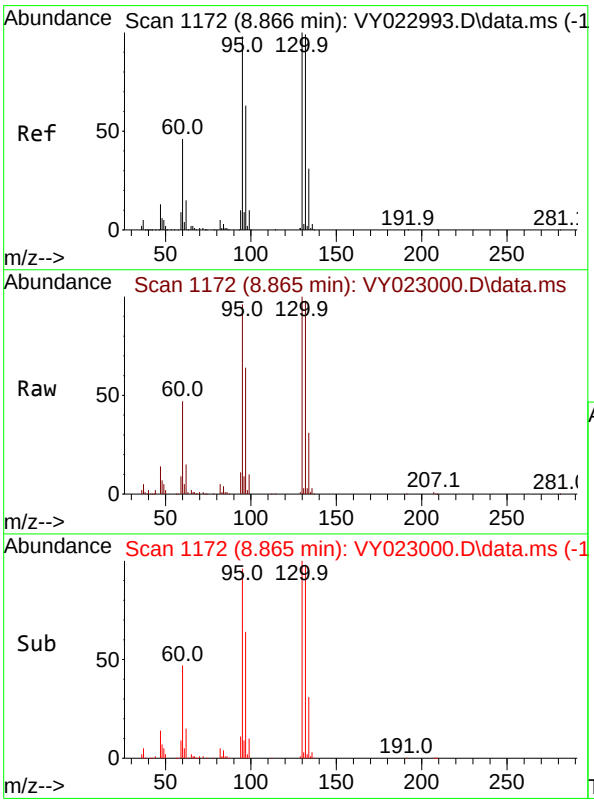
Ion	Ratio	Lower	Upper
43	100		
61	19.9	25.0	37.4
87	13.7	11.1	16.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

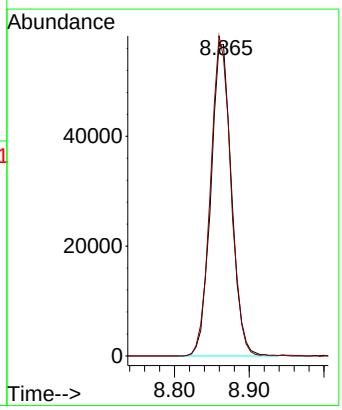


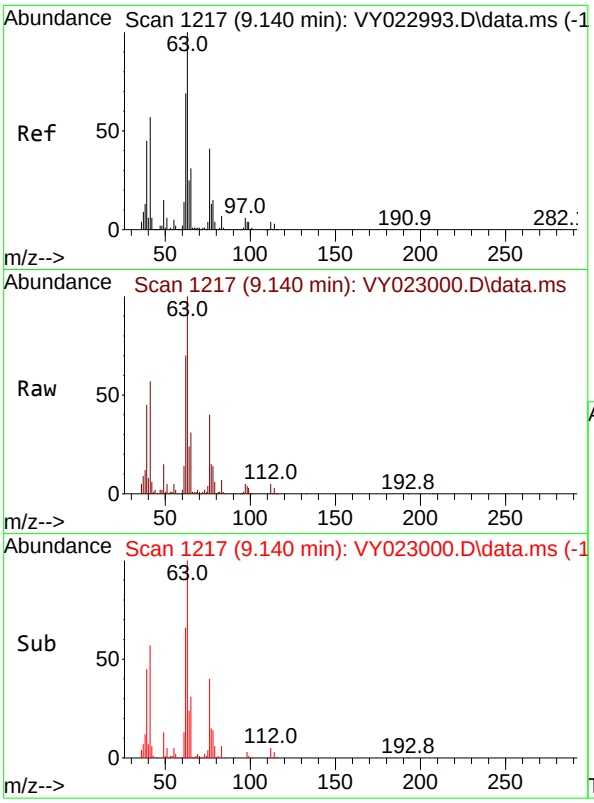


#44
Trichloroethene
Concen: 19.425 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:130 Resp: 109088

Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	195.8





#45
1,2-Dichloropropane
Concen: 20.636 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

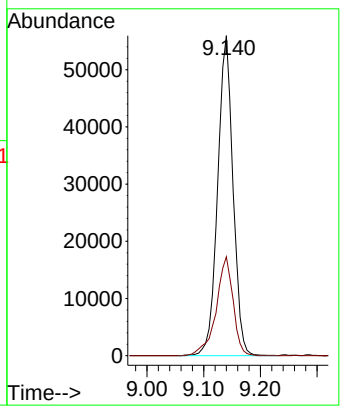
Tgt Ion: 63 Resp: 10536

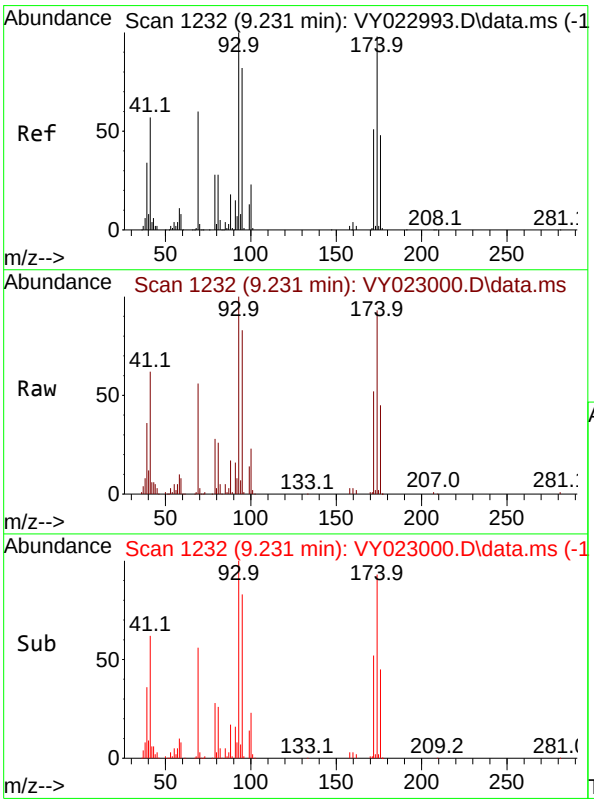
Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

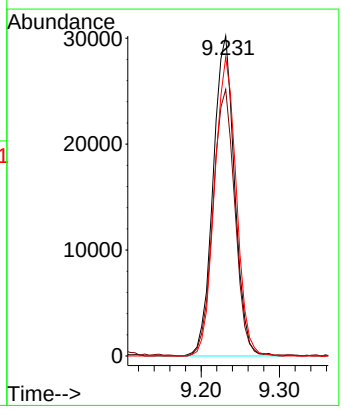


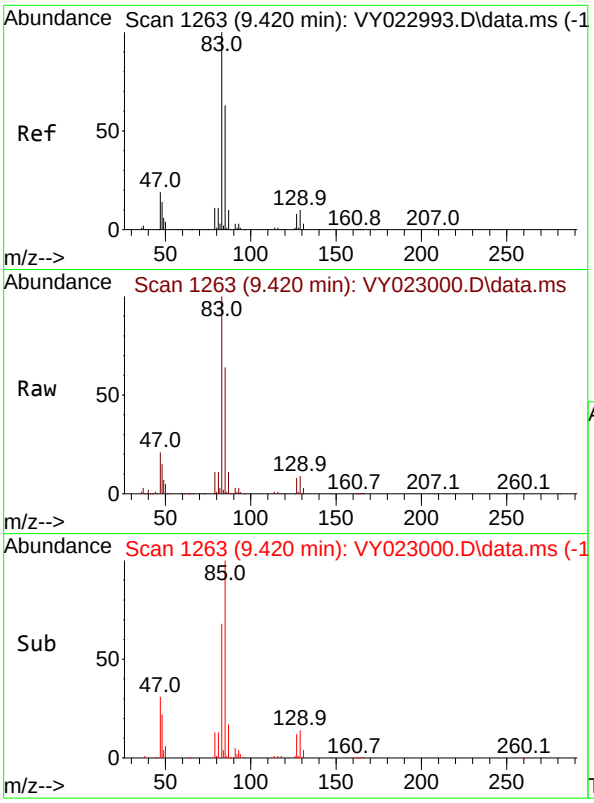


#46
Dibromomethane
Concen: 21.784 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 93 Resp: 57491

Ion	Ratio	Lower	Upper
93	100		
95	85.0	65.9	98.9
174	94.7	76.4	114.6

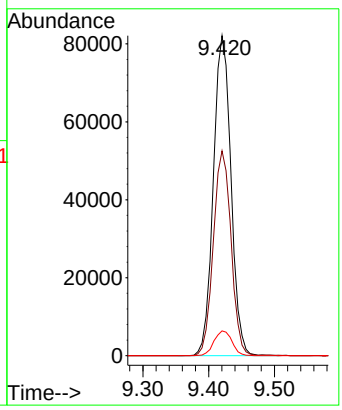




#47
Bromodichloromethane
Concen: 20.974 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 83 Resp: 15300

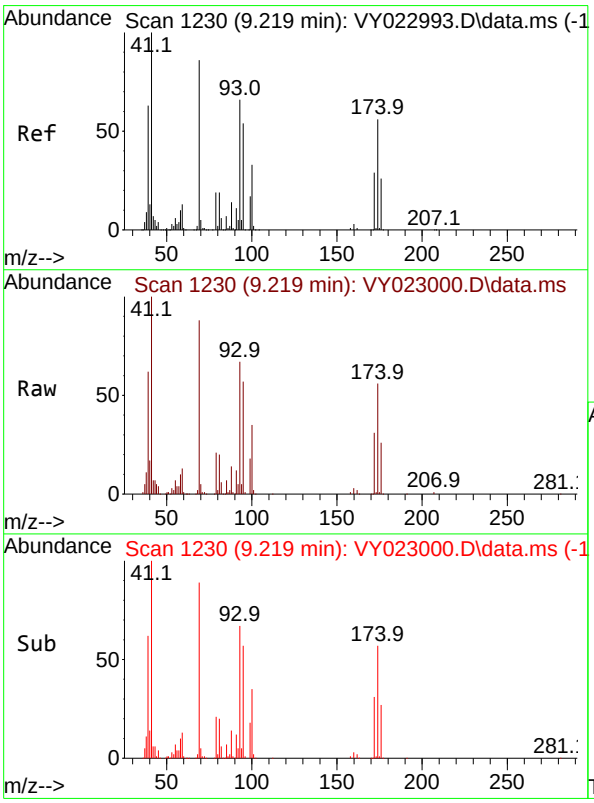
Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.6	75.8
127	7.8	6.5	9.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

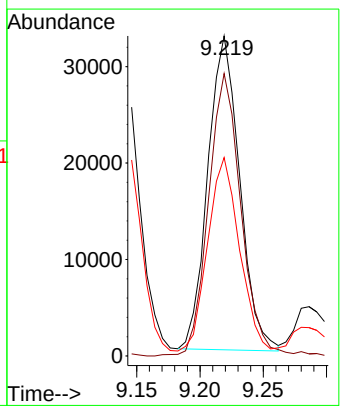
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

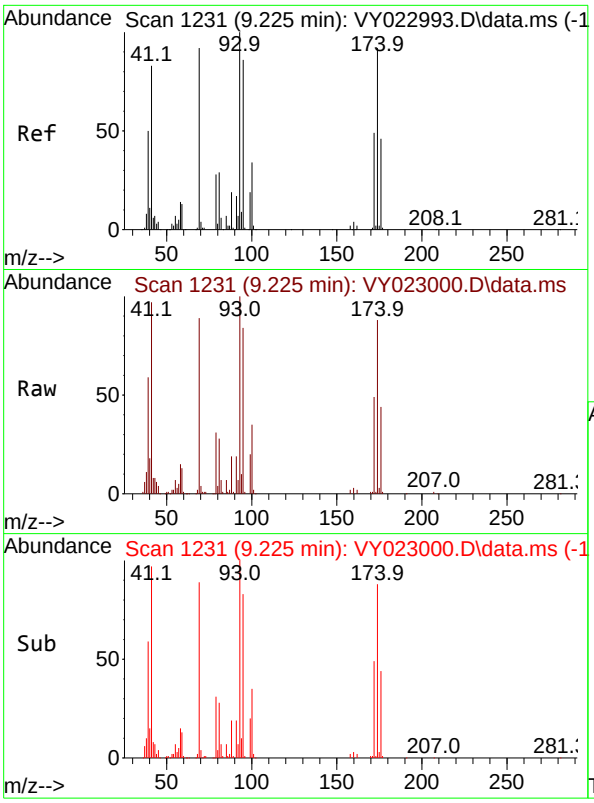


#48
Methyl methacrylate
Concen: 22.024 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 41 Resp: 56963

Ion	Ratio	Lower	Upper
41	100		
69	92.1	71.4	107.0
39	61.7	47.8	71.8





#49
1,4-Dioxane
Concen: 477.259 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

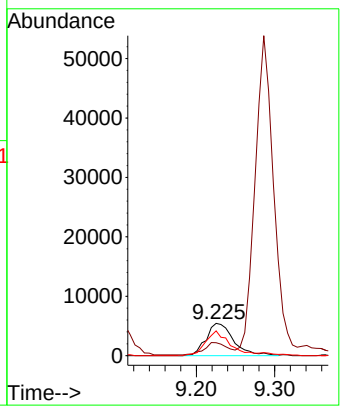
Tgt Ion: 88 Resp: 1327

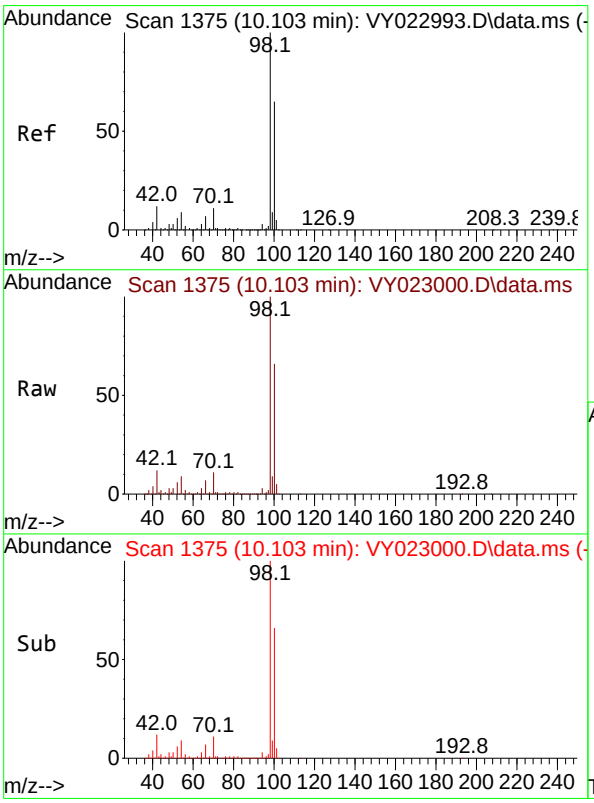
Ion	Ratio	Lower	Upper
88	100		
43	32.4	28.7	43.1
58	67.7	59.8	89.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

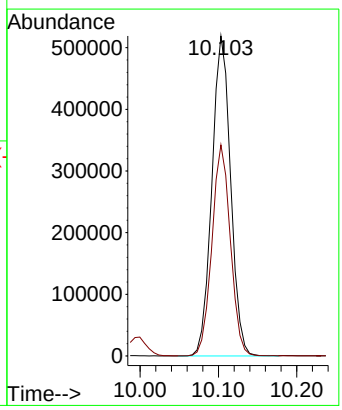


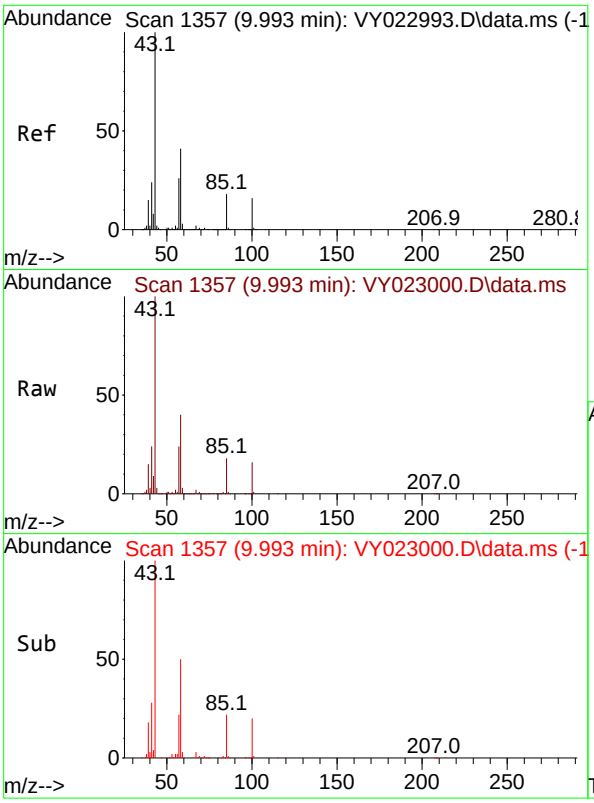


#50
Toluene-d8
Concen: 47.172 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 98 Resp: 862393

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 118.388 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

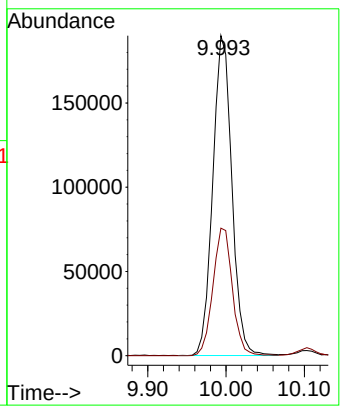
Tgt Ion: 43 Resp: 32191

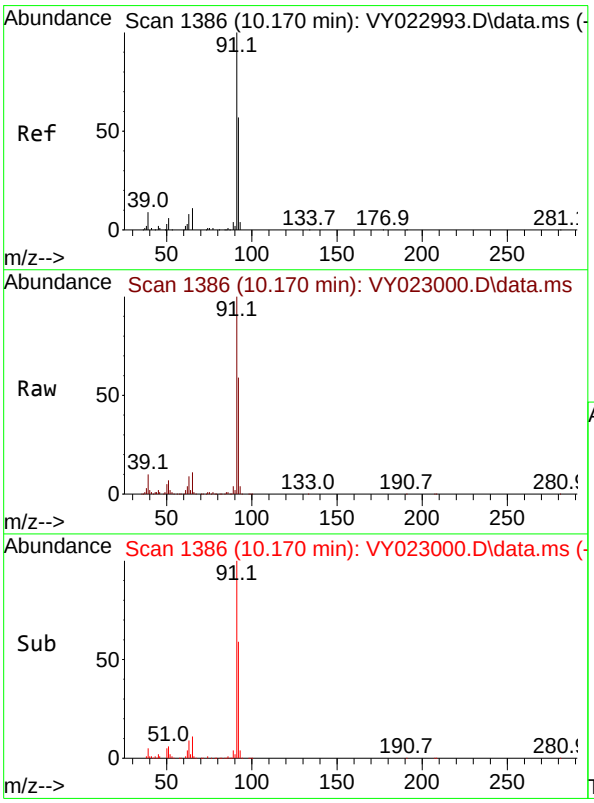
Ion	Ratio	Lower	Upper
43	100		
58	40.7	32.5	48.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

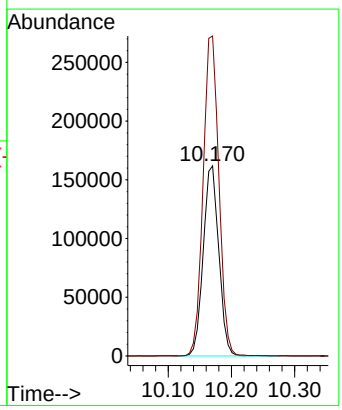


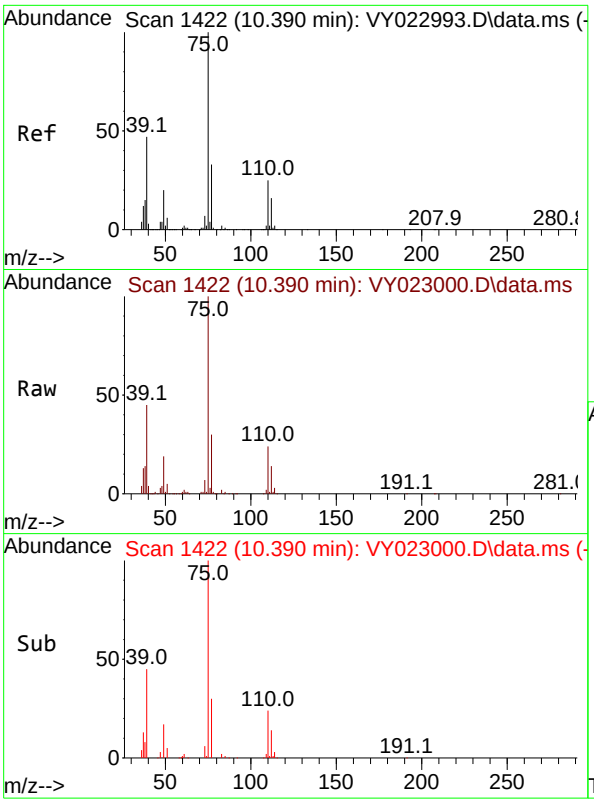


#52
Toluene
Concen: 20.370 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 92 Resp: 276910

Ion	Ratio	Lower	Upper
92	100		
91	170.8	137.8	206.6





#53
t-1,3-Dichloropropene
Concen: 21.174 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

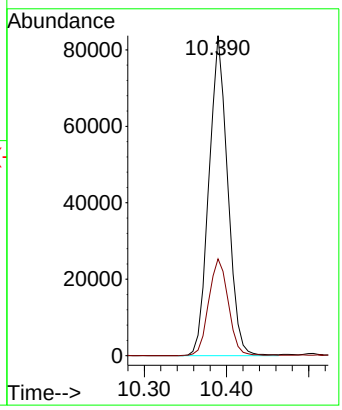
Tgt Ion: 75 Resp: 13259

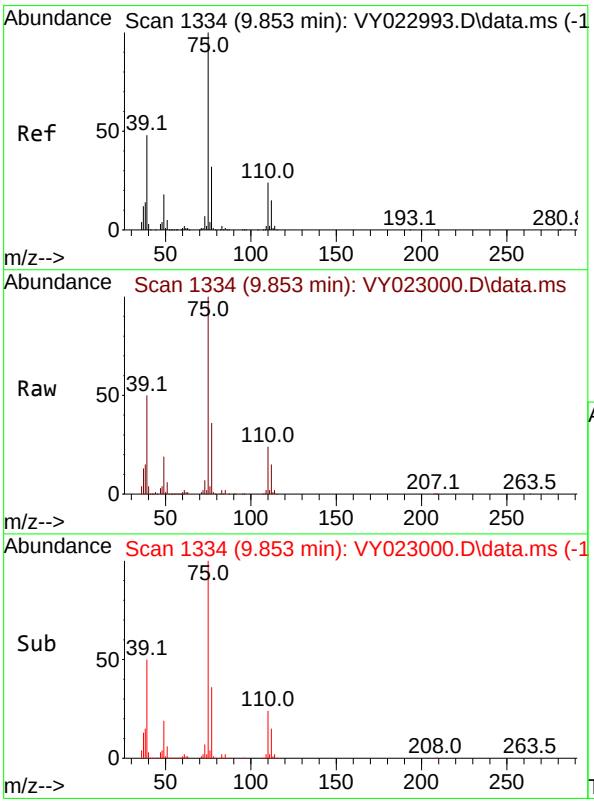
Ion	Ratio	Lower	Upper
75	100		
77	30.3	26.4	39.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

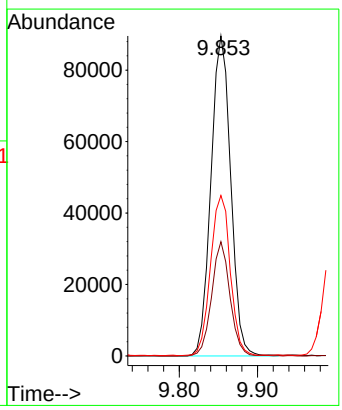


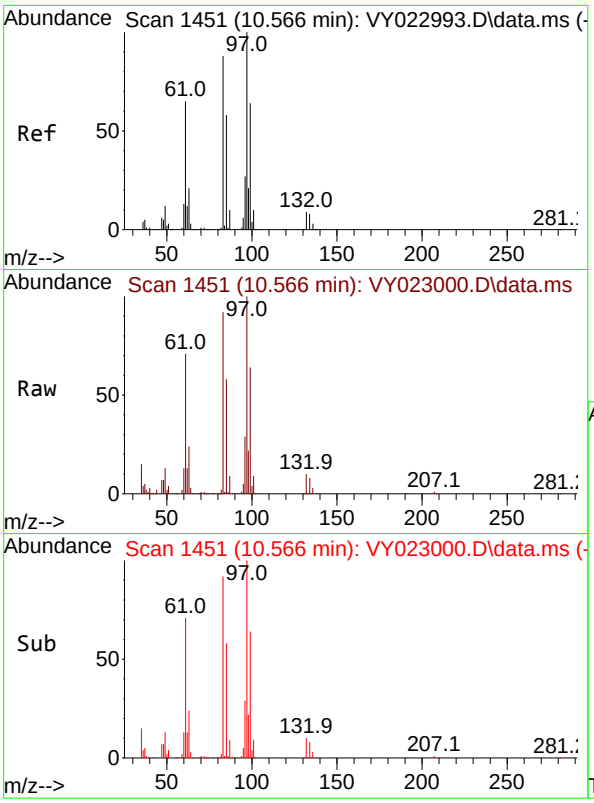


#54
cis-1,3-Dichloropropene
Concen: 20.791 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 156932

Ion	Ratio	Lower	Upper
75	100		
77	35.7	25.4	38.0
39	50.1	38.2	57.2

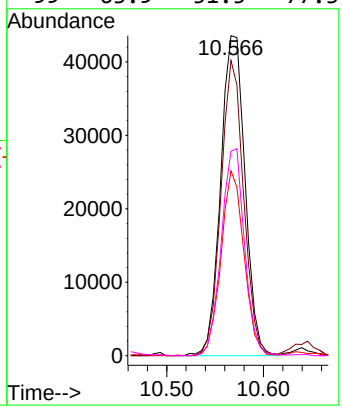




#55
1,1,2-Trichloroethane
Concen: 21.939 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 97 Resp: 7610

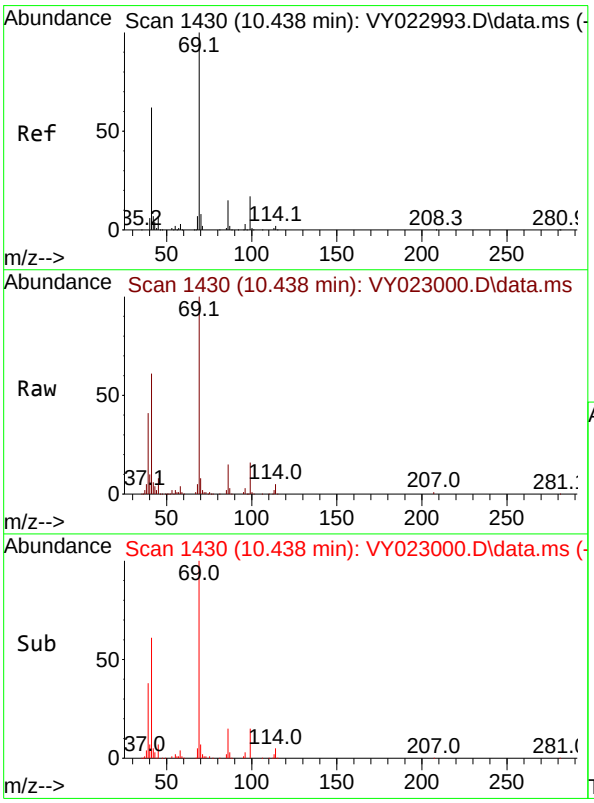
Ion	Ratio	Lower	Upper
97	100		
83	92.1	70.2	105.2
85	57.8	46.2	69.2
99	63.9	51.5	77.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

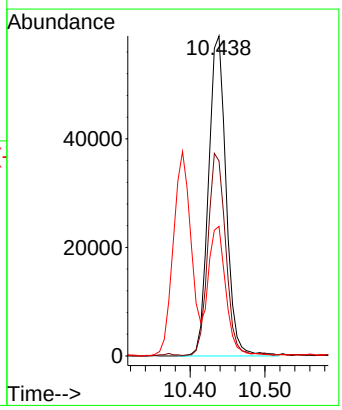
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

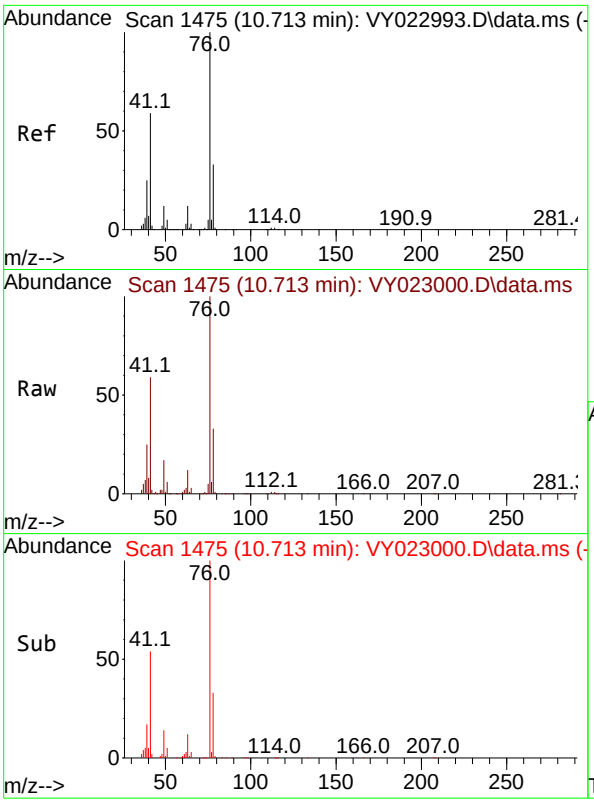


#56
Ethyl methacrylate
Concen: 22.265 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 69 Resp: 96413

Ion	Ratio	Lower	Upper
69	100		
41	63.5	51.0	76.4
39	39.9	30.6	46.0





#57
1,3-Dichloropropane
Concen: 22.114 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

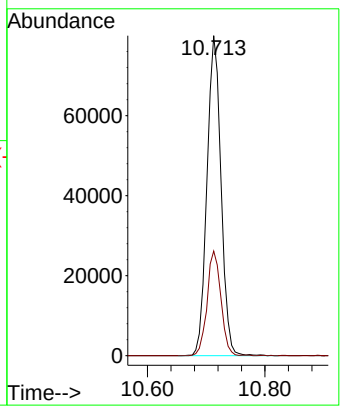
Tgt Ion: 76 Resp: 13251

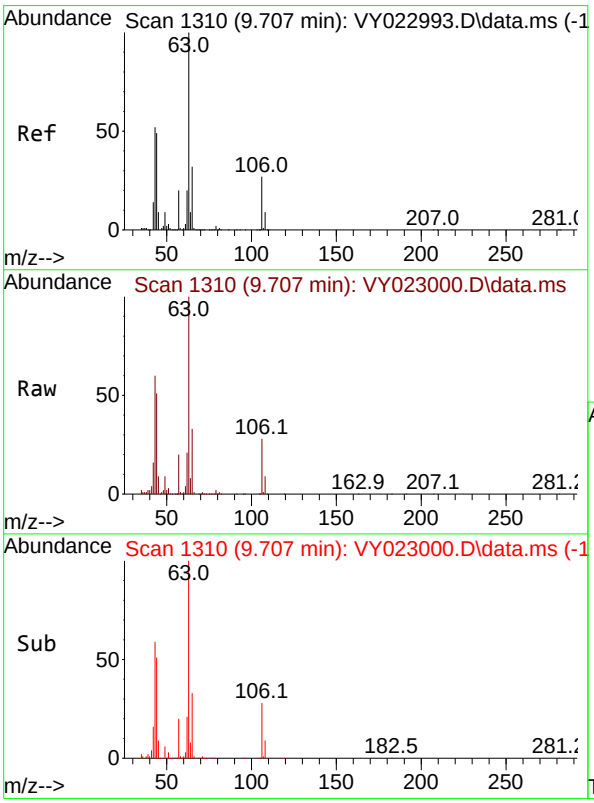
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.6	39.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

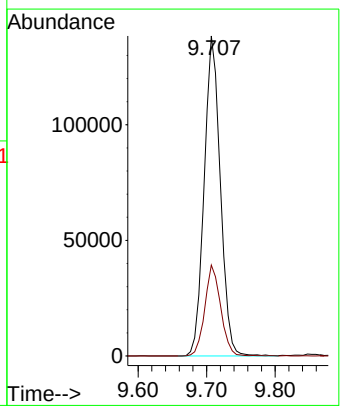


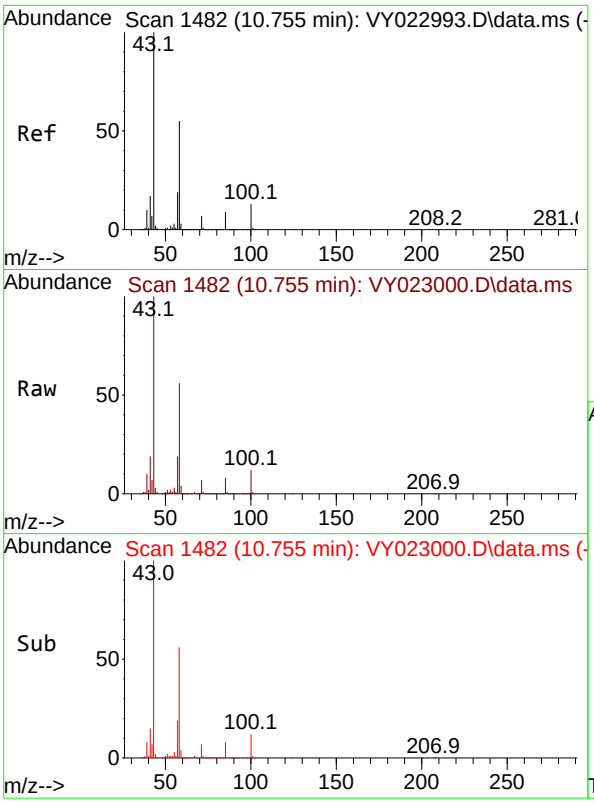


#58
2-Chloroethyl Vinyl ether
Concen: 107.314 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 63 Resp: 227470

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.6	33.8





#59
2-Hexanone
Concen: 118.246 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

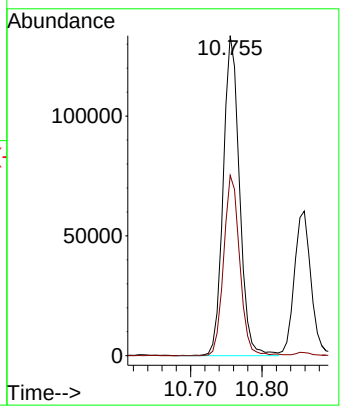
Tgt Ion: 43 Resp: 211344

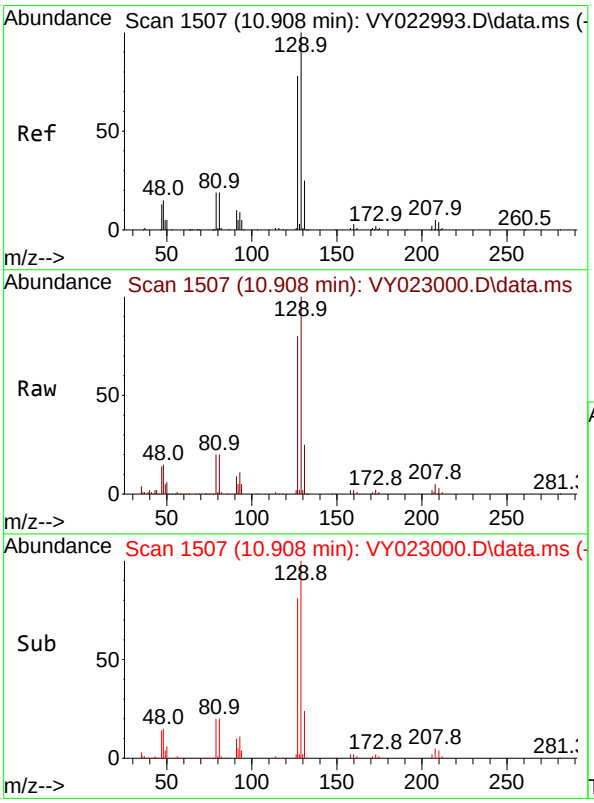
Ion	Ratio	Lower	Upper
43	100		
58	55.7	28.1	84.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

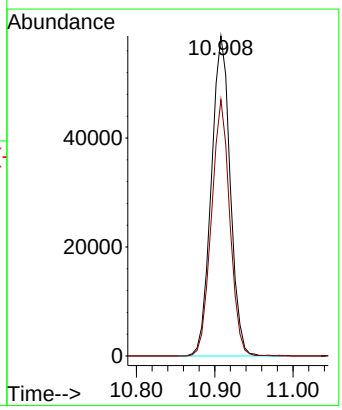


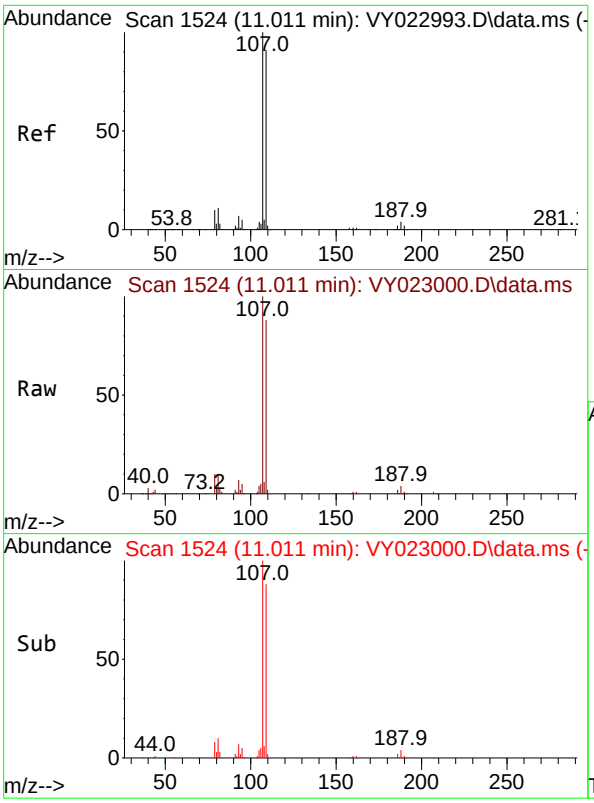


#60
Dibromochloromethane
Concen: 21.663 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:129 Resp: 98399

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.7	116.1





#61
1,2-Dibromoethane
Concen: 22.273 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

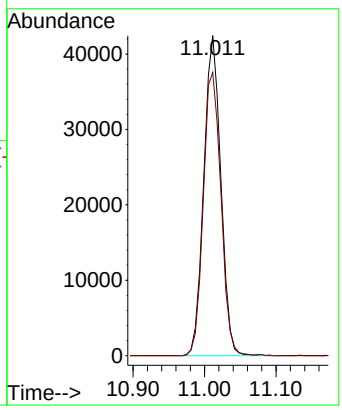
Tgt Ion:107 Resp: 7016

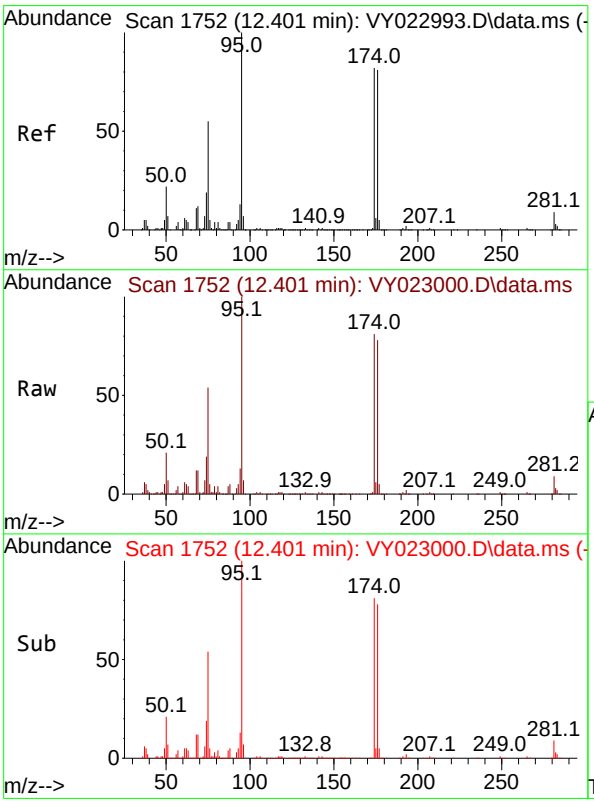
Ion	Ratio	Lower	Upper
107	100		
109	91.6	75.1	112.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

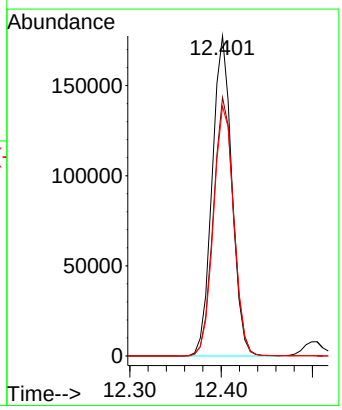


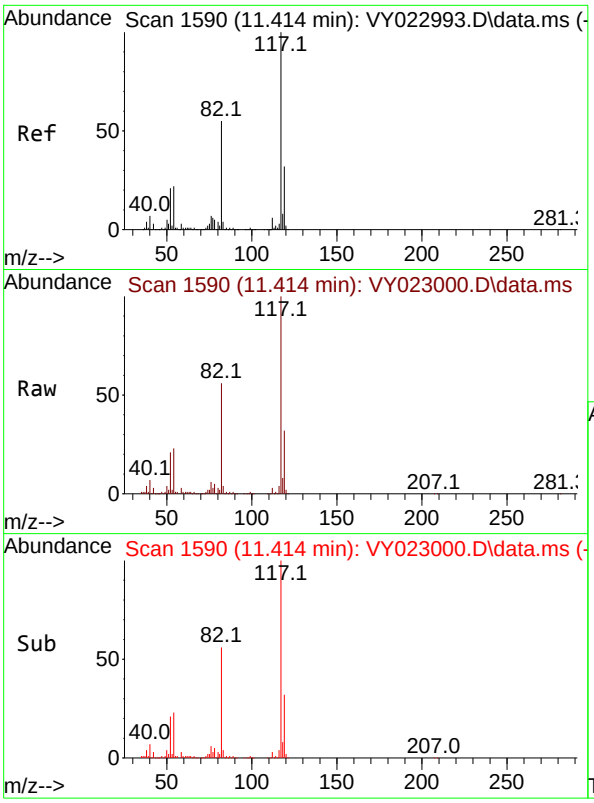


#62
4-Bromofluorobenzene
Concen: 46.158 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 95 Resp: 265634

Ion	Ratio	Lower	Upper
95	100		
174	82.9	0.0	170.8
176	80.6	0.0	163.6

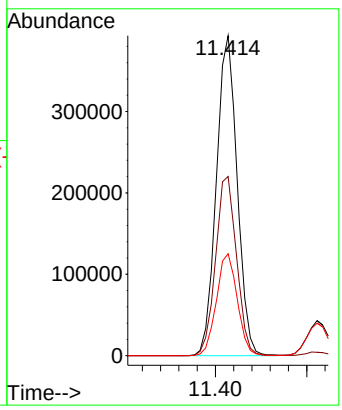




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:117 Resp: 62202

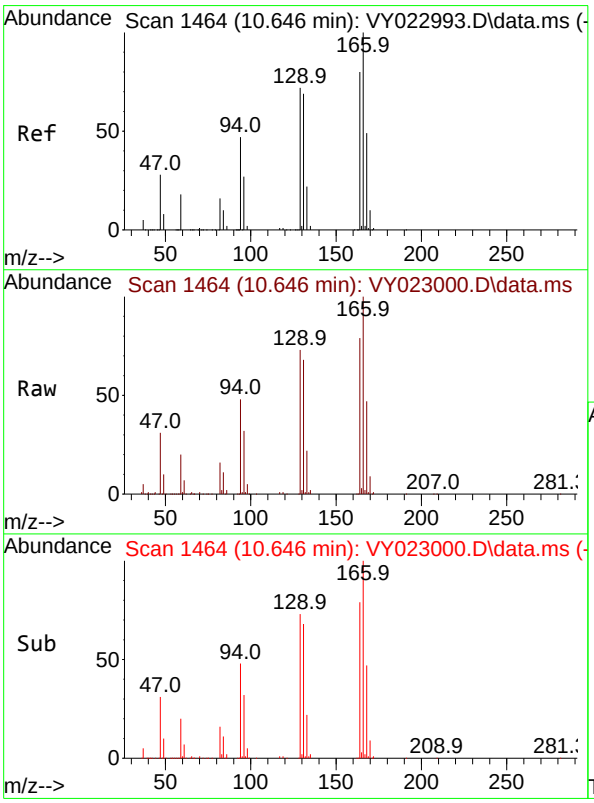
Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	31.9	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

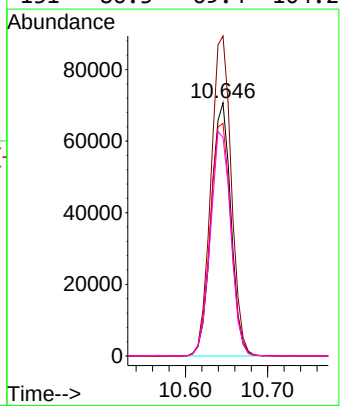
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

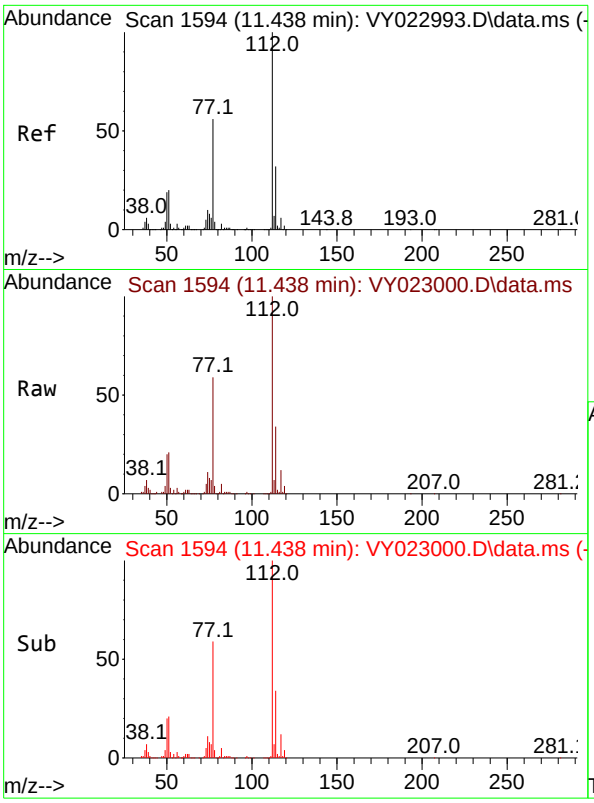


#64
Tetrachloroethene
Concen: 18.602 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:164 Resp: 118268

Ion	Ratio	Lower	Upper
164	100		
166	126.4	100.2	150.2
129	91.9	71.7	107.5
131	86.3	69.4	104.2

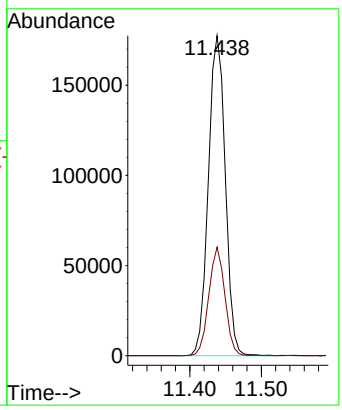




#65
Chlorobenzene
Concen: 19.871 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:112 Resp: 29167

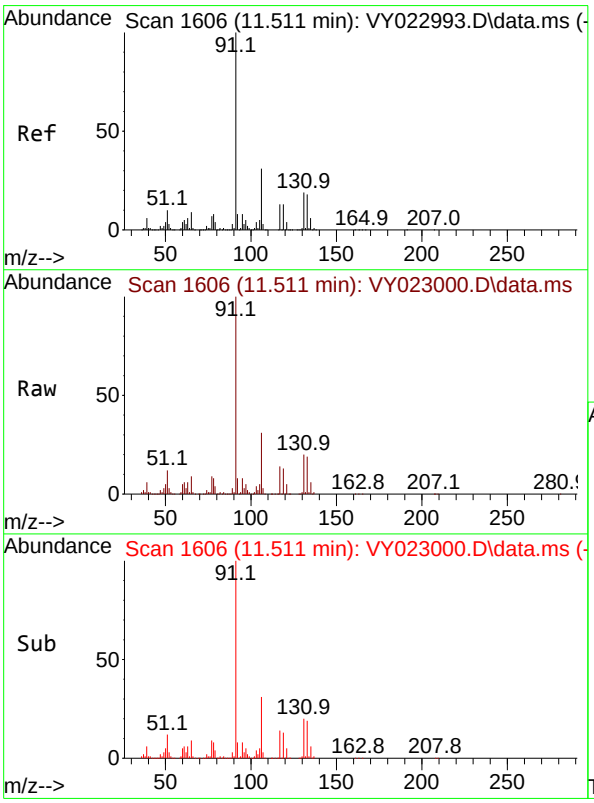
Ion	Ratio	Lower	Upper
112	100		
114	33.9	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

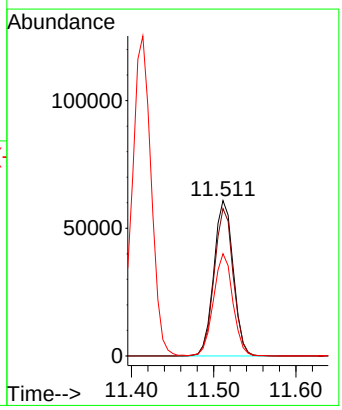
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

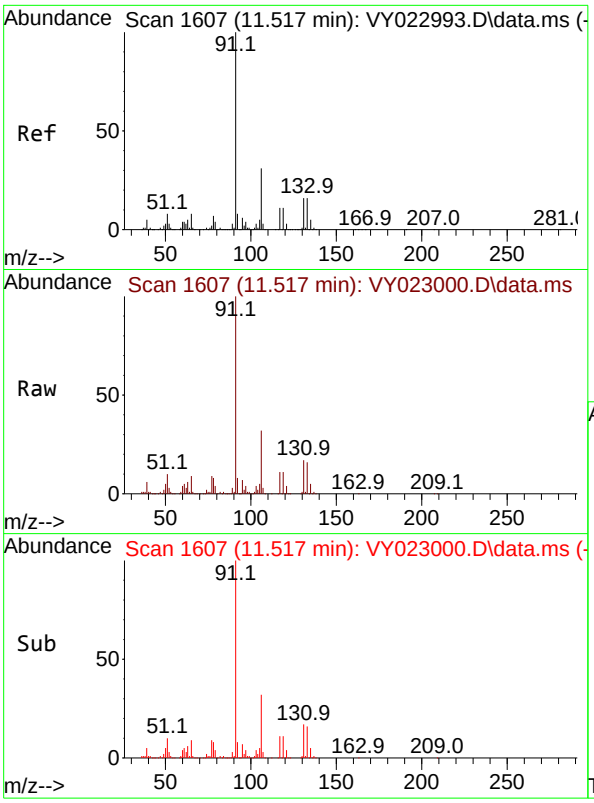


#66
1,1,1,2-Tetrachloroethane
Concen: 19.946 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:131 Resp: 99858

Ion	Ratio	Lower	Upper
131	100		
133	93.5	47.8	143.3
119	65.7	33.3	99.8

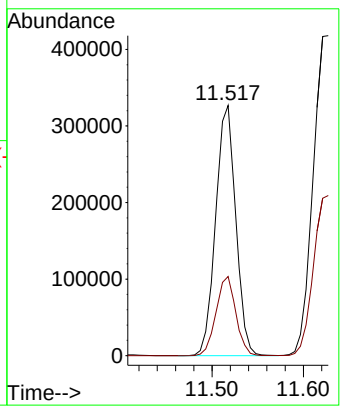




#67
Ethyl Benzene
Concen: 19.239 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 50053(

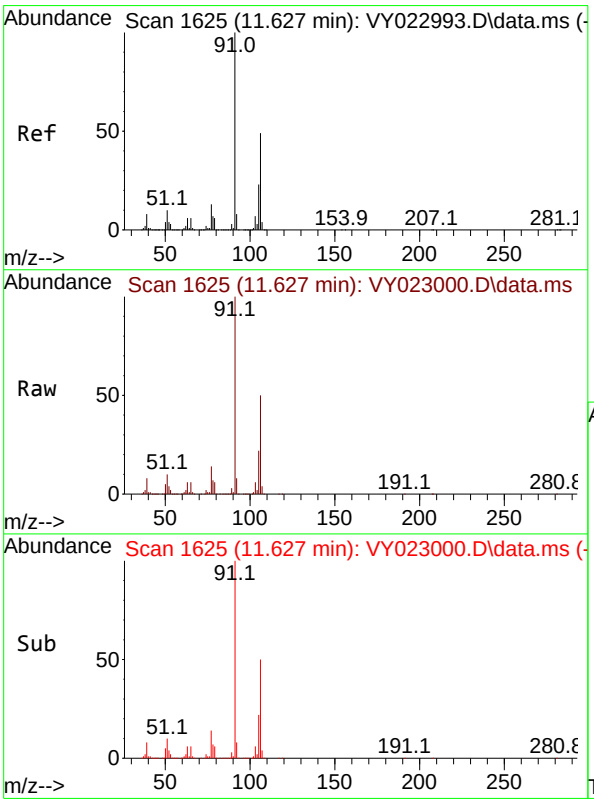
Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

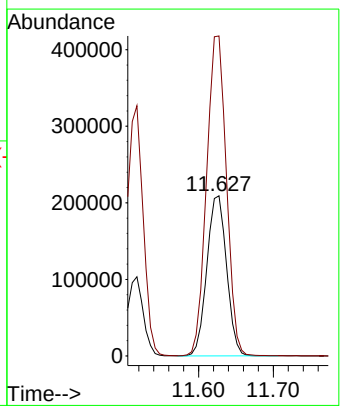
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

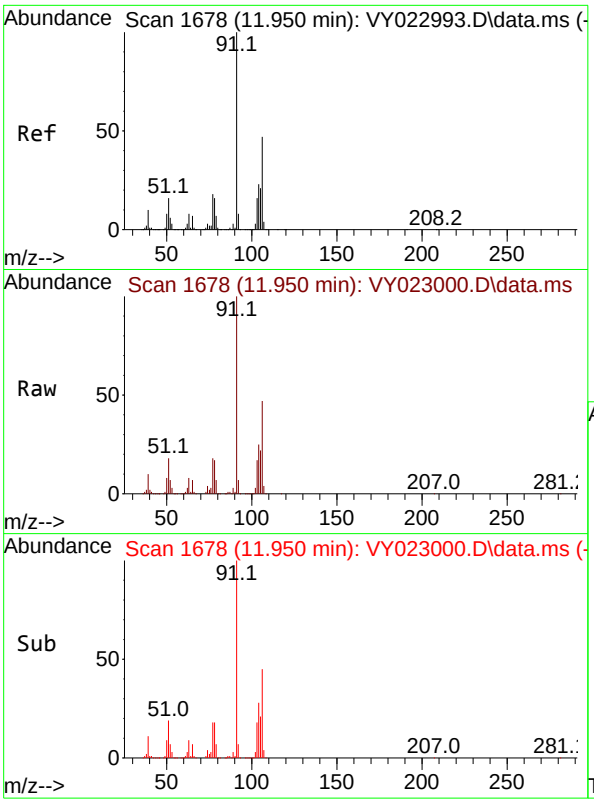


#68
m/p-Xylenes
Concen: 38.465 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:106 Resp: 383842

Ion	Ratio	Lower	Upper
106	100		
91	201.3	159.8	239.8





#69
o-Xylene
Concen: 19.266 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

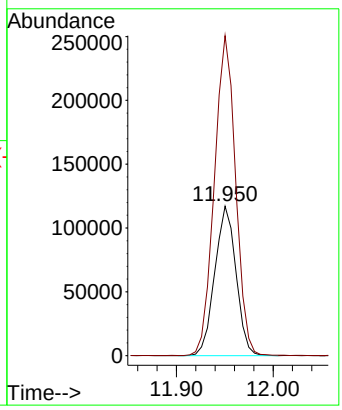
Tgt Ion:106 Resp: 17841

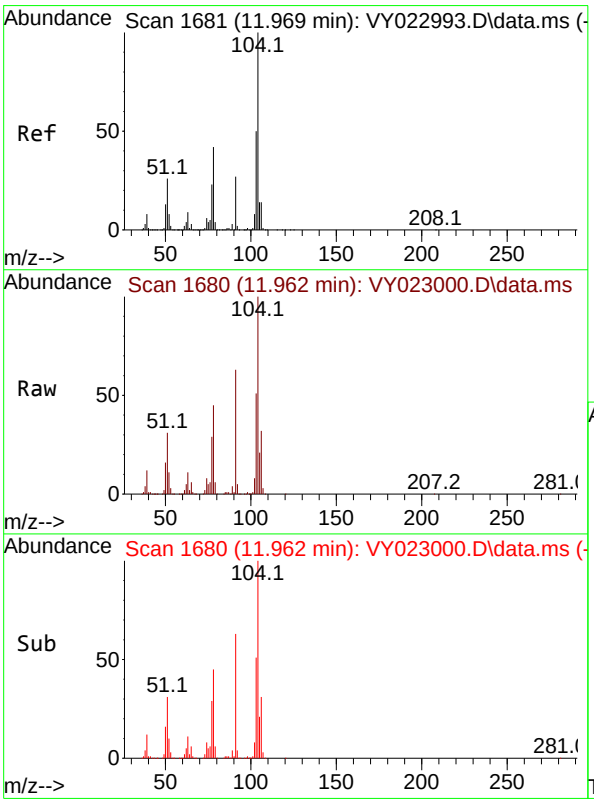
Ion	Ratio	Lower	Upper
106	100		
91	214.3	106.3	318.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

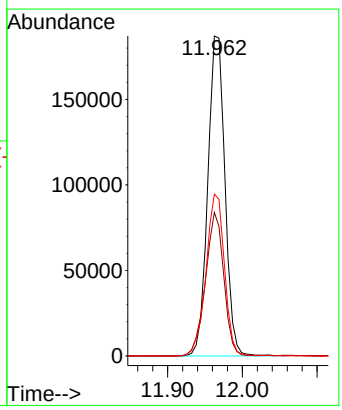


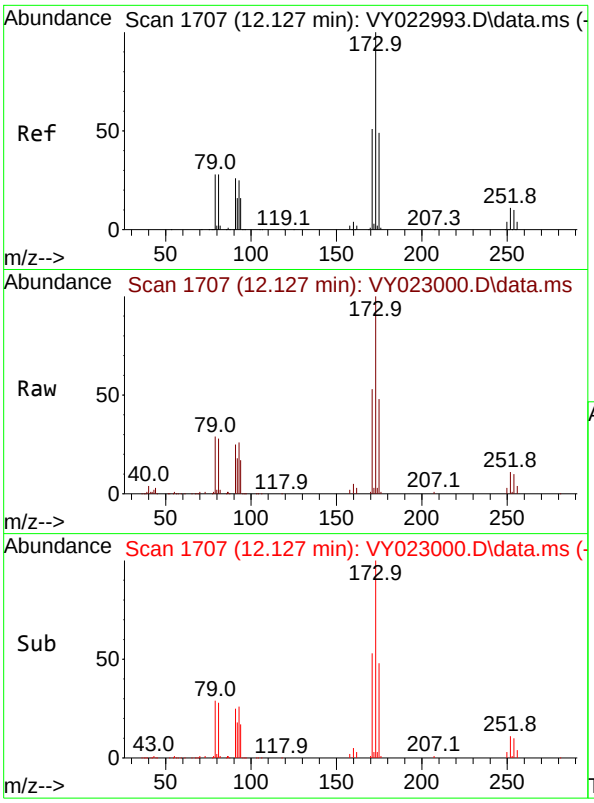


#70
Styrene
Concen: 19.729 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:104 Resp: 299288

Ion	Ratio	Lower	Upper
104	100		
78	47.9	39.0	58.6
103	54.4	43.7	65.5

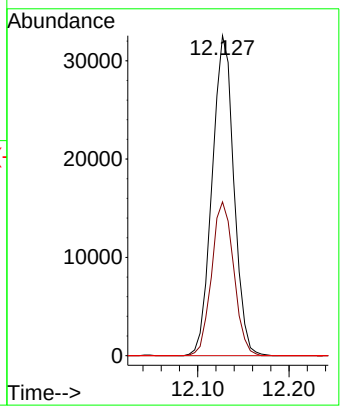




#71
Bromoform
Concen: 21.158 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:173 Resp: 5377

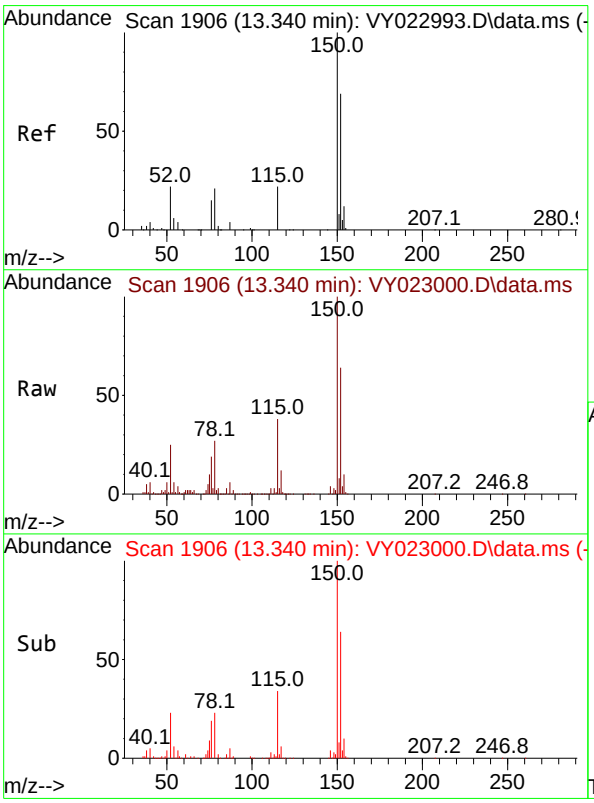
Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

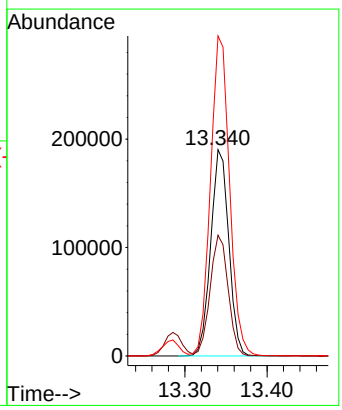
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

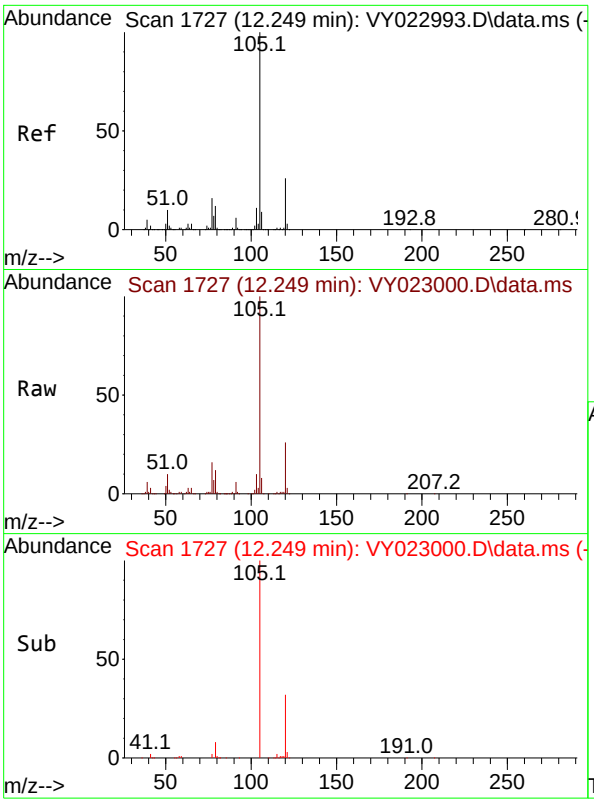


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:152 Resp: 290368

Ion	Ratio	Lower	Upper
152	100		
115	58.3	29.4	88.2
150	163.9	0.0	350.0

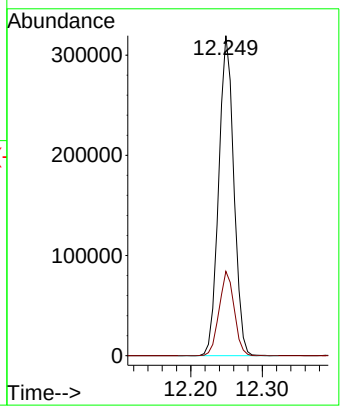




#73
Isopropylbenzene
Concen: 19.065 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:105 Resp: 46934

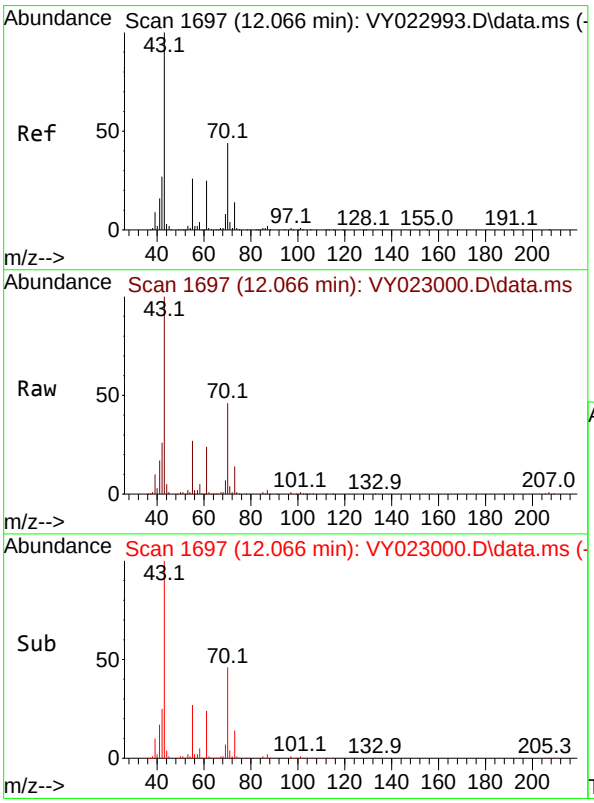
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

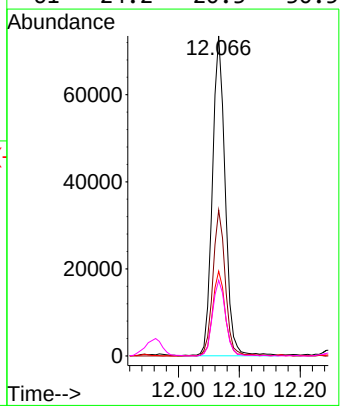
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

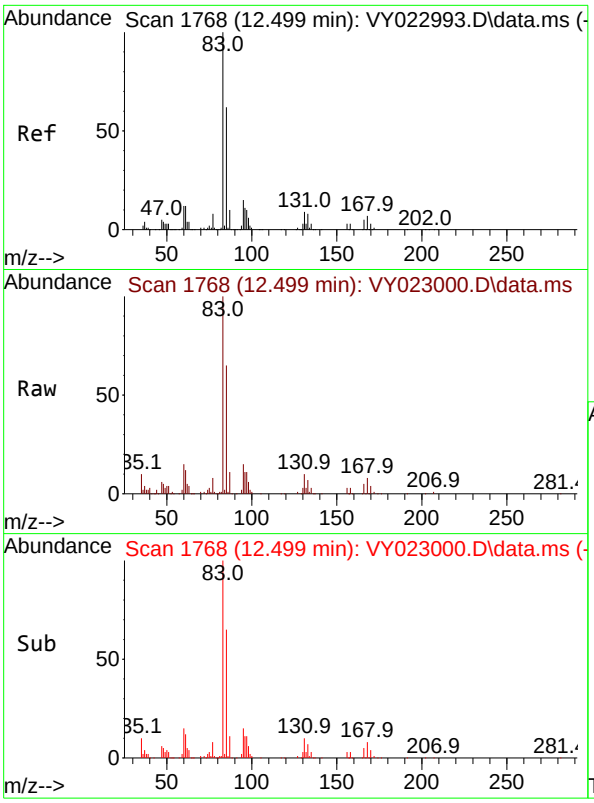


#74
N-amyl acetate
Concen: 23.049 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 43 Resp: 106978

Ion	Ratio	Lower	Upper
43	100		
70	44.5	36.2	54.2
55	26.0	20.9	31.3
61	24.2	20.3	30.5





#75
1,1,2,2-Tetrachloroethane
Concen: 22.268 ug/l
RT: 12.499 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

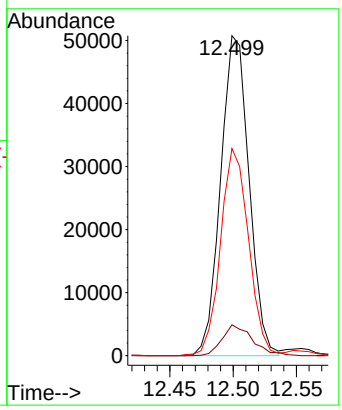
Tgt Ion: 83 Resp: 7933

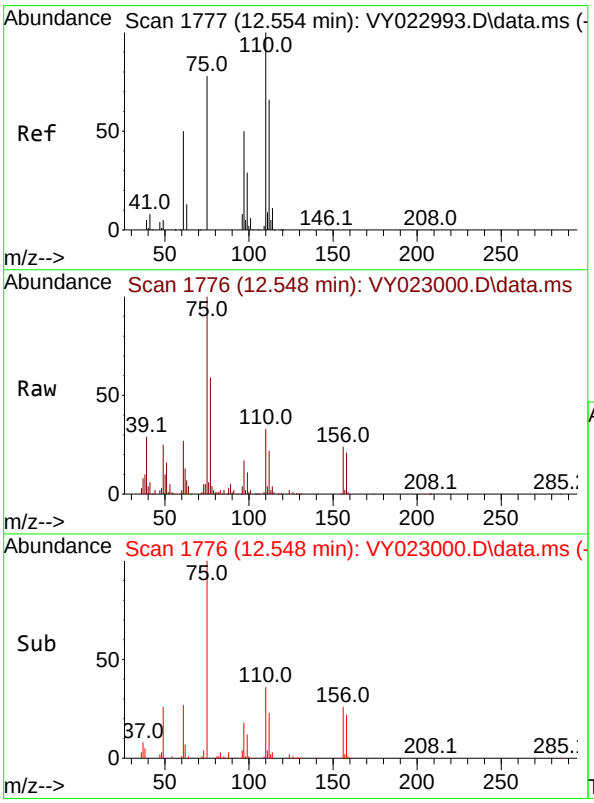
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.7	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

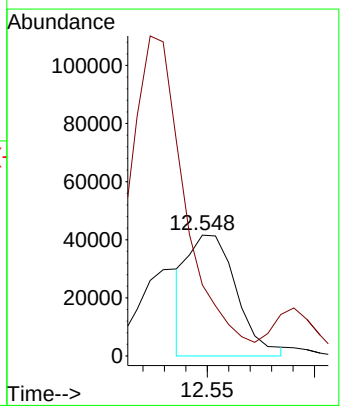


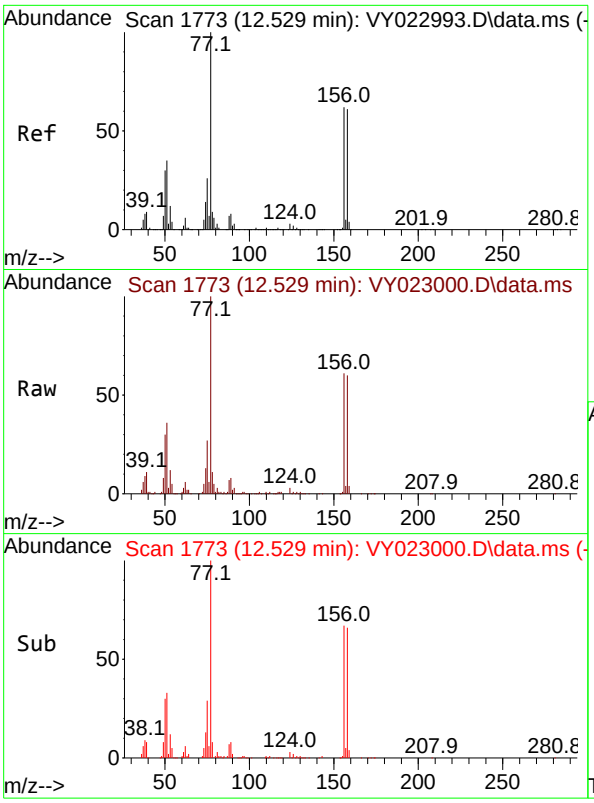


#76
1,2,3-Trichloropropane
Concen: 18.169 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 65738

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

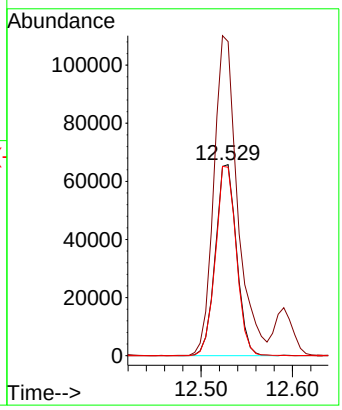




#77
Bromobenzene
Concen: 19.821 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:156 Resp: 10583

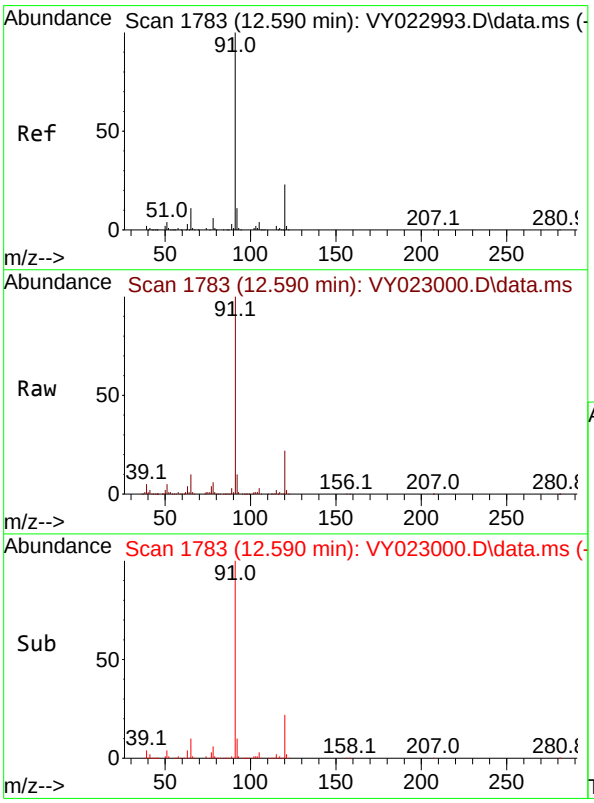
Ion	Ratio	Lower	Upper
156	100		
77	188.1	92.0	276.1
158	97.8	48.6	145.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

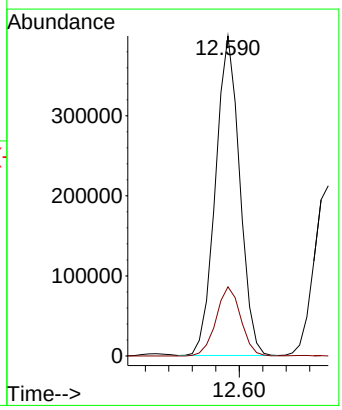
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

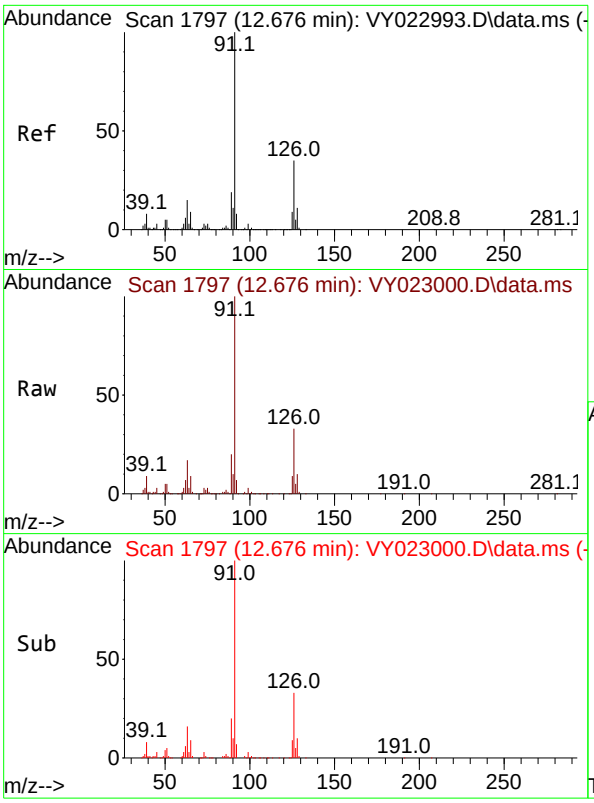


#78
n-propylbenzene
Concen: 19.503 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 571745

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.3	33.8

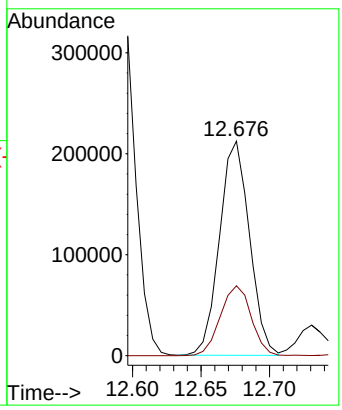




#79
2-Chlorotoluene
Concen: 19.588 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 32296

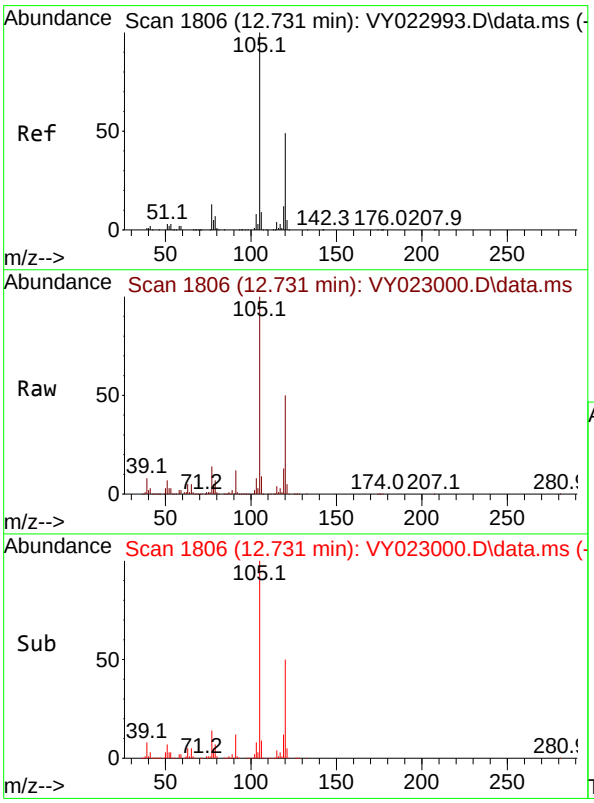
Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.0	50.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

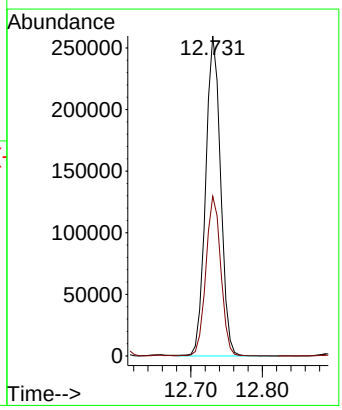
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

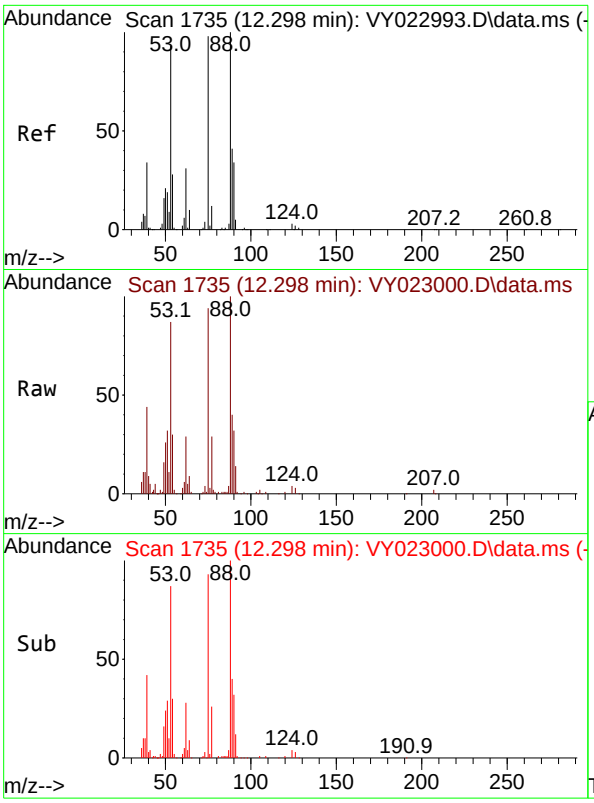


#80
1,3,5-Trimethylbenzene
Concen: 19.435 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:105 Resp: 377356

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.6	73.8





#81
trans-1,4-Dichloro-2-butene
Concen: 21.548 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

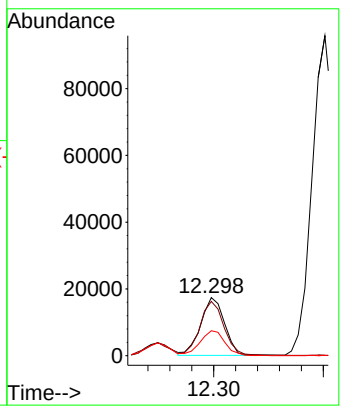
Tgt Ion: 75 Resp: 2617

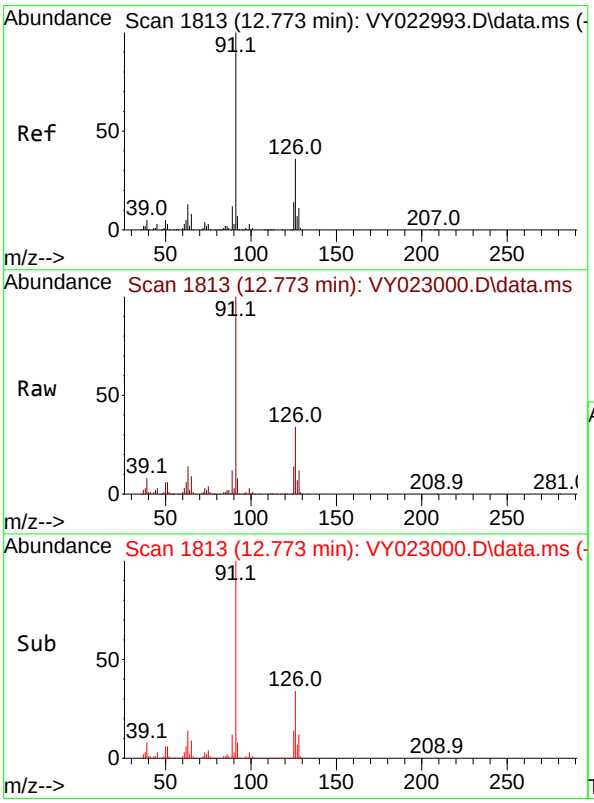
Ion	Ratio	Lower	Upper
75	100		
53	95.3	76.1	114.1
89	45.1	36.1	54.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

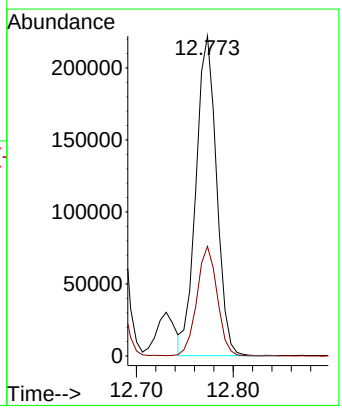


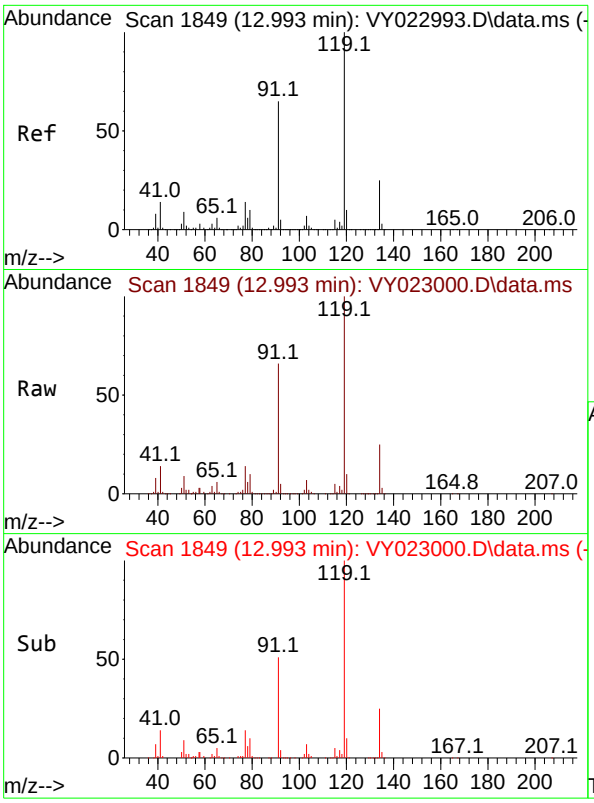


#82
4-Chlorotoluene
Concen: 19.725 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 328021

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.2	51.5

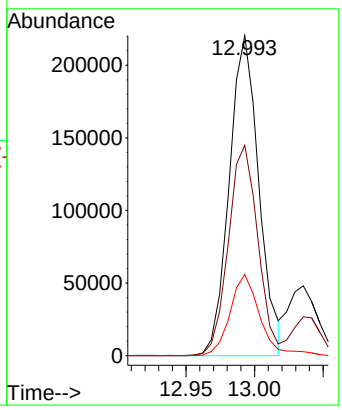




#83
tert-Butylbenzene
Concen: 18.917 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:119 Resp: 33177

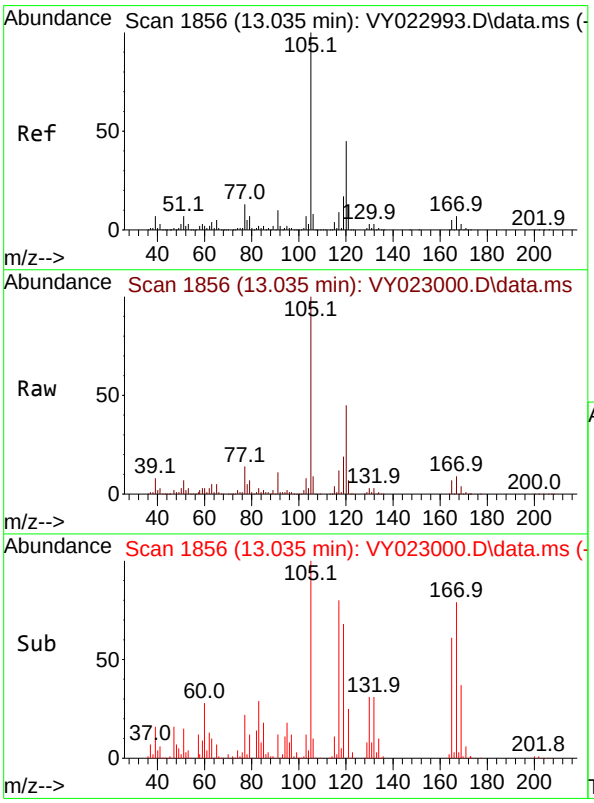
Ion	Ratio	Lower	Upper
119	100		
91	65.0	32.0	96.2
134	25.7	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

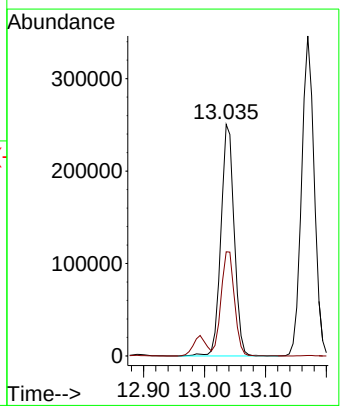
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

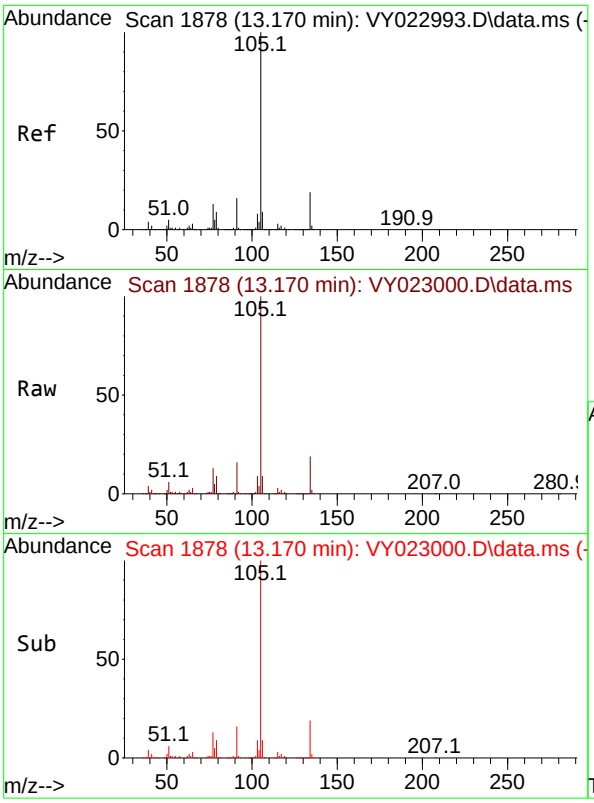


#84
1,2,4-Trimethylbenzene
Concen: 19.745 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:105 Resp: 377381

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.9	68.8





#85
sec-Butylbenzene
Concen: 18.928 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

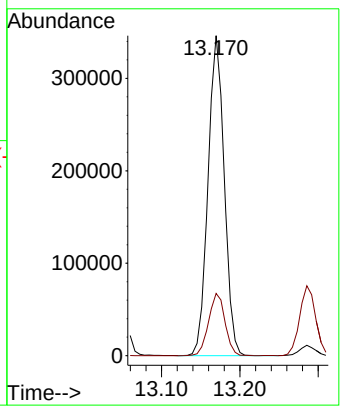
Tgt Ion:105 Resp: 49748

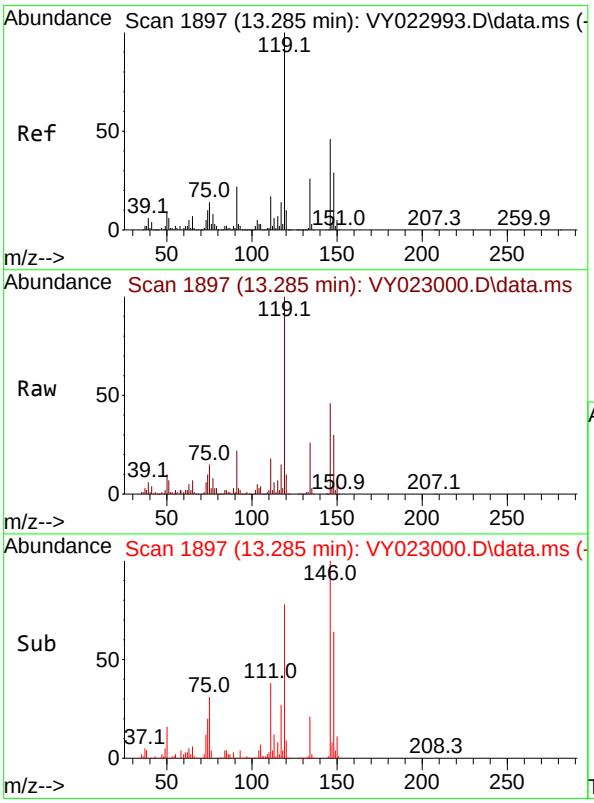
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

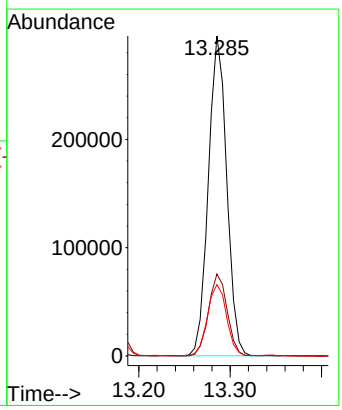


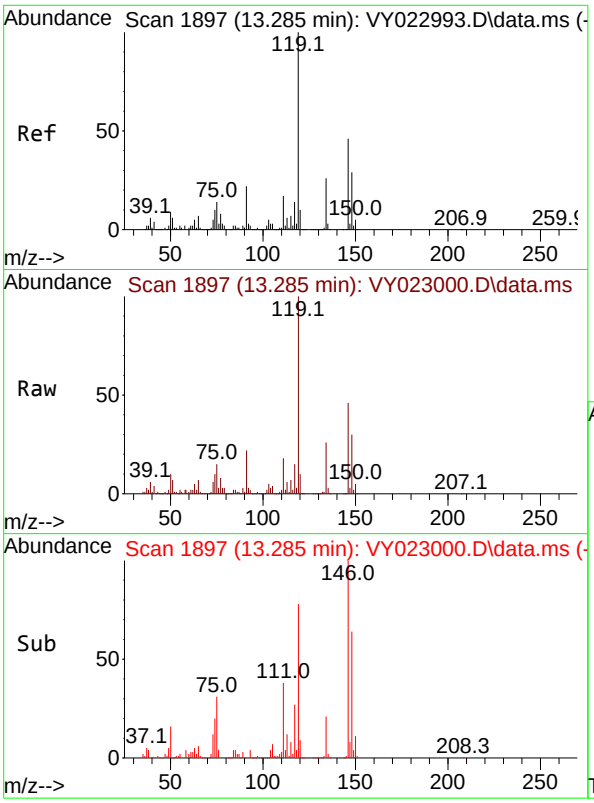


#86
p-Isopropyltoluene
Concen: 19.271 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:119 Resp: 411364

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	23.1	11.4	34.1

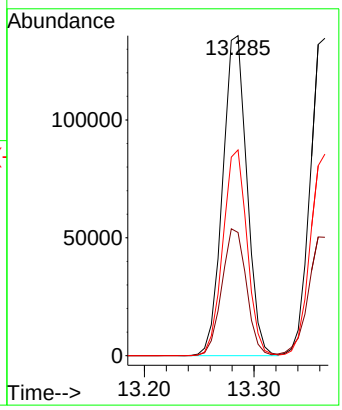




#87
1,3-Dichlorobenzene
Concen: 19.352 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:146 Resp: 20852

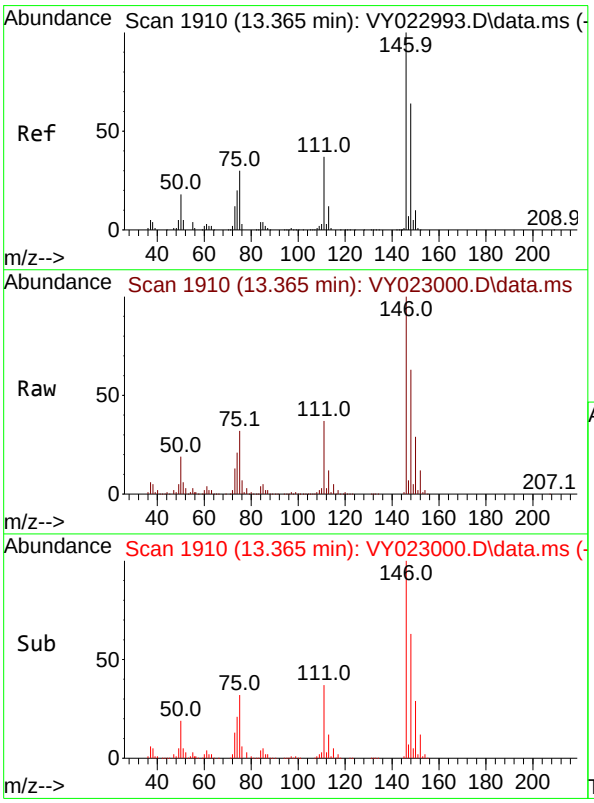
Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.8	59.3
148	64.0	31.6	94.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

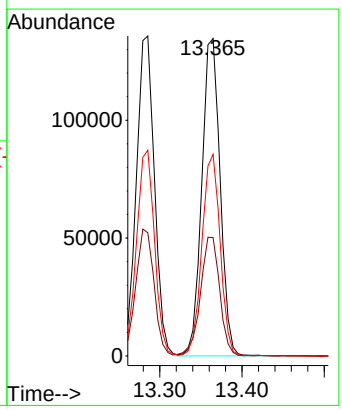
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

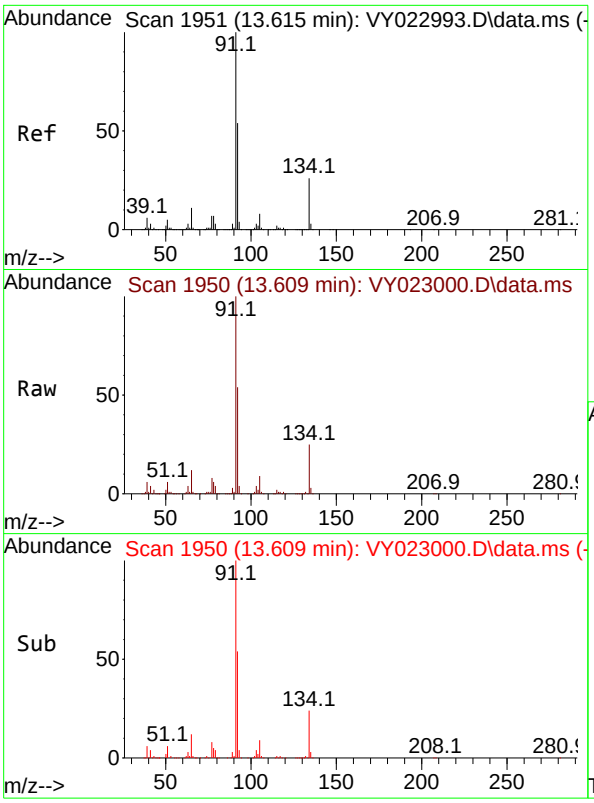


#88
1,4-Dichlorobenzene
Concen: 19.973 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:146 Resp: 208199

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.2	57.6
148	63.1	31.9	95.5

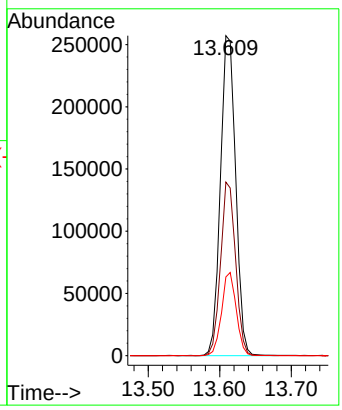




#89
n-Butylbenzene
Concen: 19.321 ug/l
RT: 13.609 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 38057

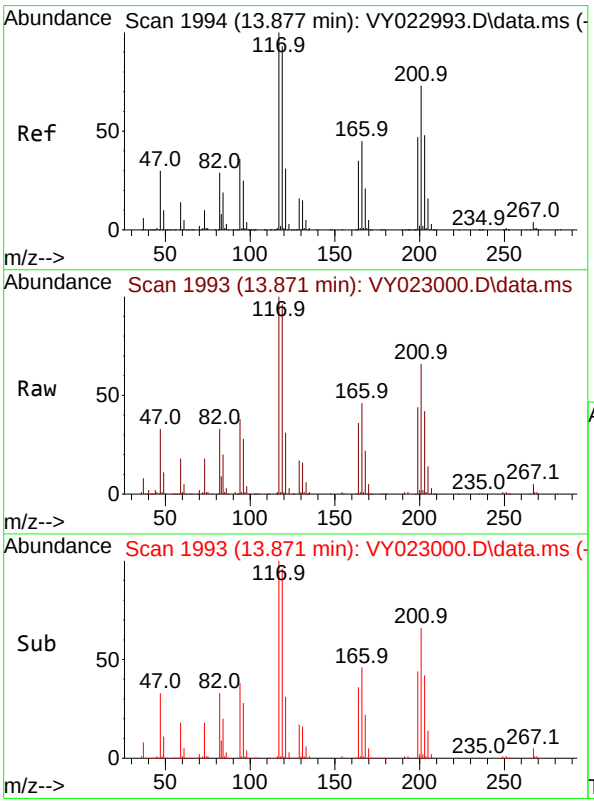
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

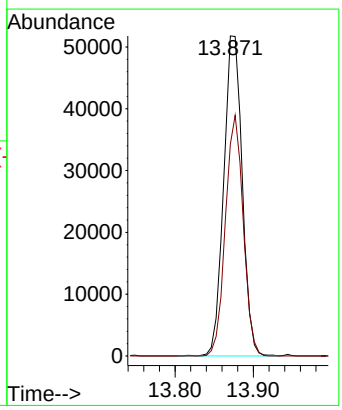
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

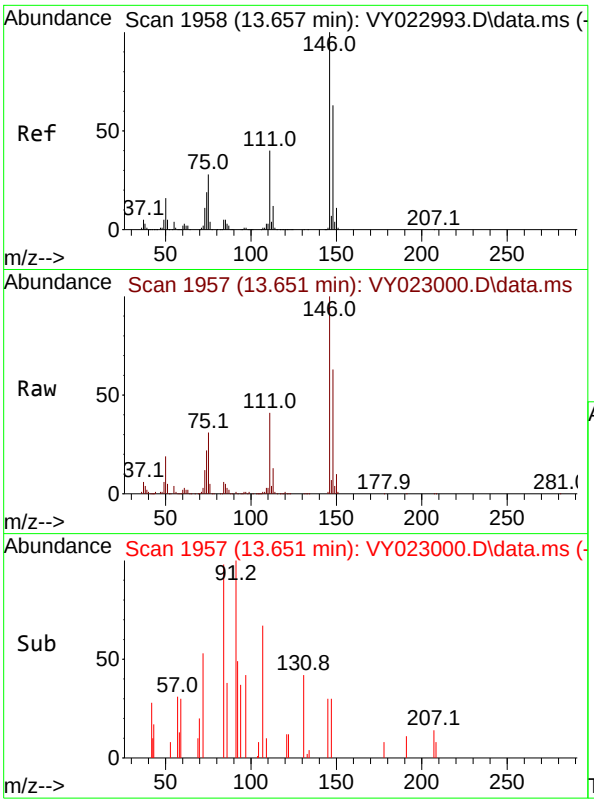


#90
Hexachloroethane
Concen: 19.261 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:117 Resp: 85123

Ion	Ratio	Lower	Upper
117	100		
201	72.4	36.1	108.5

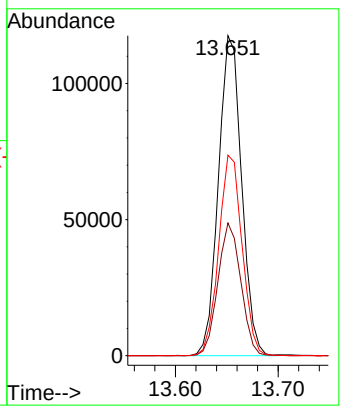




#91
1,2-Dichlorobenzene
Concen: 20.251 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:146 Resp: 18406

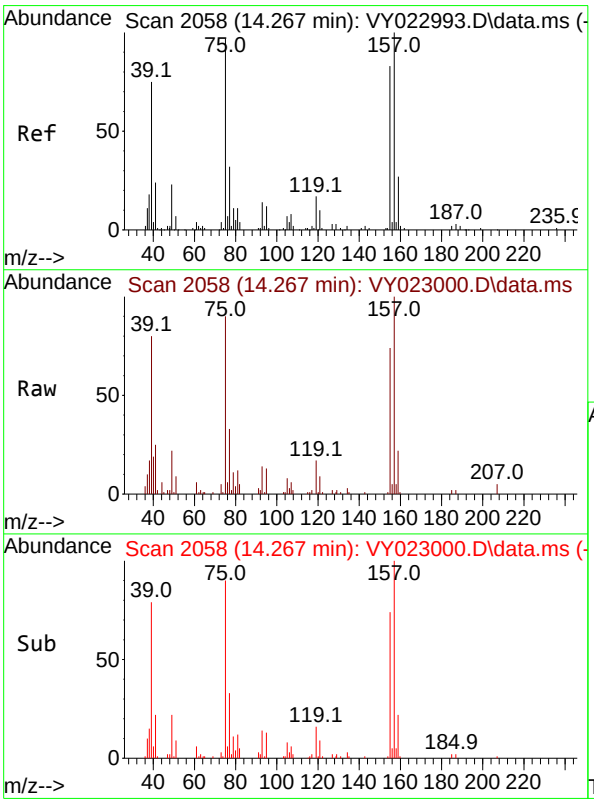
Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.3	61.0
148	63.3	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

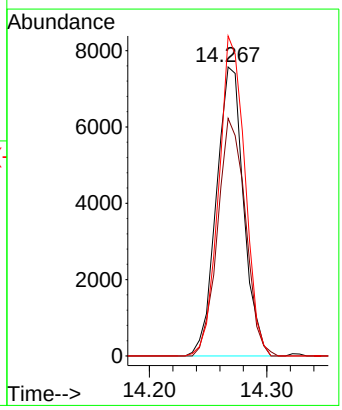
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

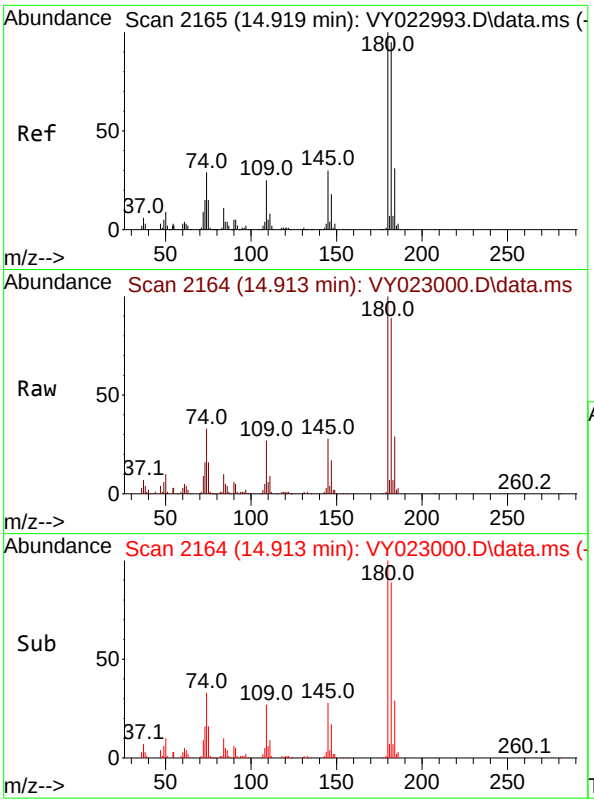


#92
1,2-Dibromo-3-Chloropropane
Concen: 23.016 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 12175

Ion	Ratio	Lower	Upper
75	100		
155	83.9	42.8	128.3
157	106.4	54.3	162.9

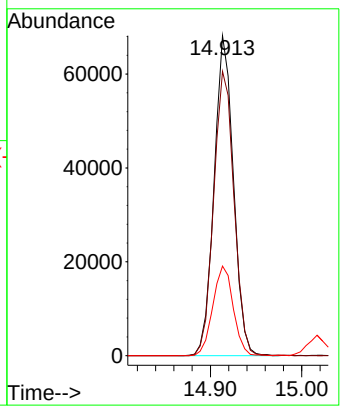




#93
1,2,4-Trichlorobenzene
Concen: 20.902 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:180 Resp: 10013

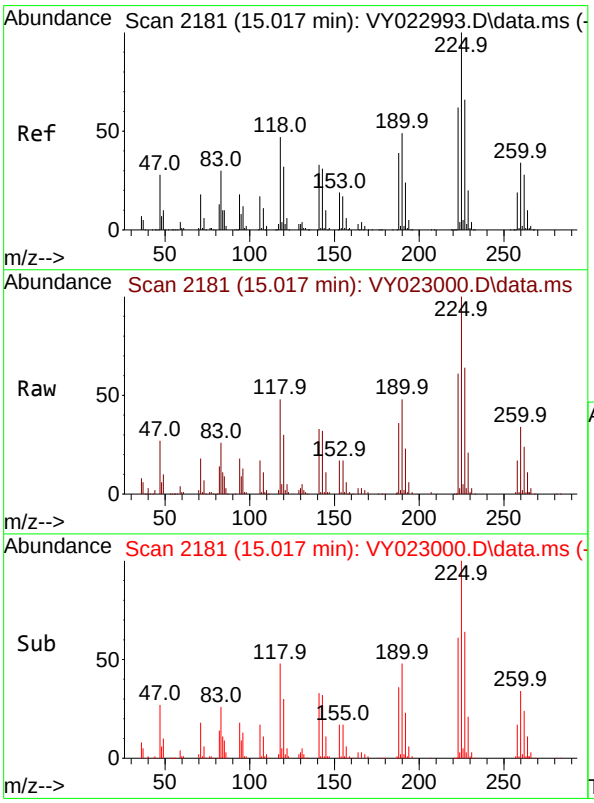
Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.5	142.5
145	29.6	14.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

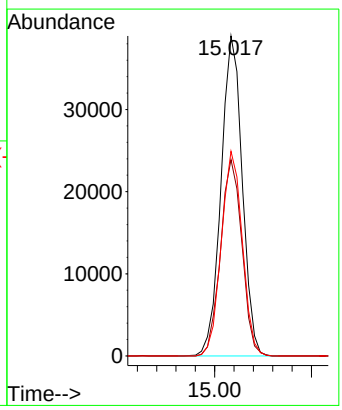
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025

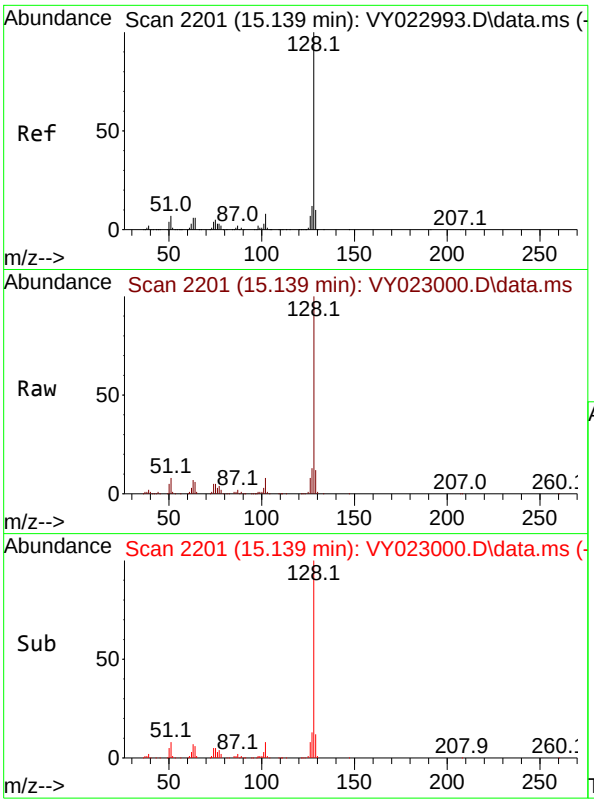


#94
Hexachlorobutadiene
Concen: 19.601 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:225 Resp: 59205

Ion	Ratio	Lower	Upper
225	100		
223	61.7	31.4	94.0
227	63.4	32.1	96.5

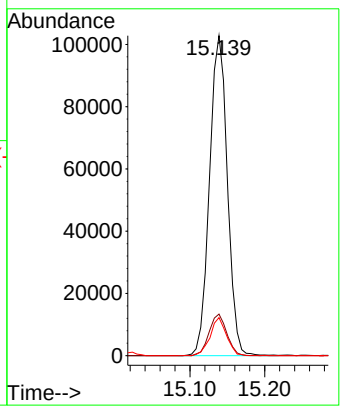




#95
Naphthalene
Concen: 22.220 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:128 Resp: 17074

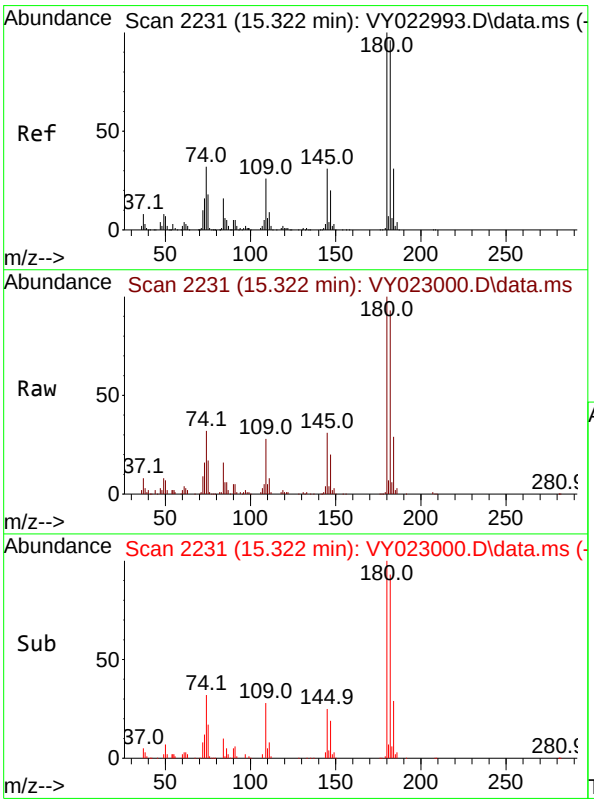
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.0	8.6	12.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Manual Integrations
APPROVED

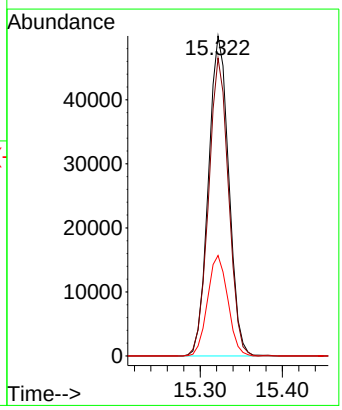
Reviewed By :Mahesh Dadoda 07/21/2025
Supervised By :Semsettin Yesilyurt 07/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.717 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:180 Resp: 85911

Ion	Ratio	Lower	Upper
180	100		
182	91.2	47.3	142.0
145	31.2	15.8	47.4



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

Manual Integration Report

Sequence:	VY071825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022990.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:14 PM	SAM	7/21/2025 2:10:04 PM	Peak Integrated by Software
VSTDICC005	VY022990.D	Ethyl Acetate	MMDadoda	7/21/2025 1:57:14 PM	SAM	7/21/2025 2:10:04 PM	Peak Integrated by Software
VSTDICC010	VY022991.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:15 PM	SAM	7/21/2025 2:10:05 PM	Peak Integrated by Software
VSTDICC010	VY022991.D	Ethyl Acetate	MMDadoda	7/21/2025 1:57:15 PM	SAM	7/21/2025 2:10:05 PM	Peak Integrated by Software
VSTDICC010	VY022991.D	Methacrylonitrile	MMDadoda	7/21/2025 1:57:15 PM	SAM	7/21/2025 2:10:05 PM	Peak Integrated by Software
VSTDICC020	VY022992.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:17 PM	SAM	7/21/2025 2:10:07 PM	Peak Integrated by Software
VSTDICC020	VY022992.D	Methacrylonitrile	MMDadoda	7/21/2025 1:57:17 PM	SAM	7/21/2025 2:10:07 PM	Peak Integrated by Software
VSTDICCC050	VY022993.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:19 PM	SAM	7/21/2025 2:10:09 PM	Peak Integrated by Software
VSTDICC100	VY022994.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:20 PM	SAM	7/21/2025 2:10:12 PM	Peak Integrated by Software
VSTDICC150	VY022995.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:22 PM	SAM	7/21/2025 2:10:15 PM	Peak Integrated by Software
VSTDICV050	VY022997.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:24 PM	SAM	7/21/2025 2:10:16 PM	Peak Integrated by Software
VSTDICV050	VY022997.D	Methacrylonitrile	MMDadoda	7/21/2025 1:57:24 PM	SAM	7/21/2025 2:10:16 PM	Peak Integrated by Software
VY0718SBS01	VY022999.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:26 PM	SAM	7/21/2025 2:10:19 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY071825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VY0718SBS01	VY022999.D	1,4-Dioxane	MMDadoda	7/21/2025 1:57:26 PM	SAM	7/21/2025 2:10:19 PM	Peak Integrated by Software
VY0718SBSD01	VY023000.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:57:28 PM	SAM	7/21/2025 2:10:21 PM	Peak Integrated by Software
VSTDCCC050	VY023013.D	1,2,3-Trichloropropane	MMDadoda	7/21/2025 1:58:07 PM	SAM	7/21/2025 2:10:24 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY072125	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023015.D	1,2,3-Trichloropropane	MMDadoda	7/22/2025 1:40:03 PM	SAM	7/22/2025 1:54:23 PM	Peak Integrated by Software
VY0721SBS01	VY023017.D	1,2,3-Trichloropropane	MMDadoda	7/22/2025 1:40:05 PM	SAM	7/22/2025 1:54:23 PM	Peak Integrated by Software
VY0721SBS01	VY023017.D	Methacrylonitrile	MMDadoda	7/22/2025 1:40:05 PM	SAM	7/22/2025 1:54:23 PM	Peak Integrated by Software
VSTDCCC050	VY023037.D	1,2,3-Trichloropropane	MMDadoda	7/22/2025 1:40:09 PM	SAM	7/22/2025 1:54:27 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071825

Review By	Mahesh Dadoda	Review On	7/21/2025 1:59:01 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/21/2025 2:10:51 PM				
SubDirectory	VY071825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134827
Initial Calibration Stds	VP134828,VP134829,VP134830,VP134831,VP134832,VP134833
CCC	VP134834
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134834
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022989.D	18 Jul 2025 09:38	SY/MD	Ok
2	VSTDICC005	VY022990.D	18 Jul 2025 10:08	SY/MD	Ok,M
3	VSTDICC010	VY022991.D	18 Jul 2025 10:54	SY/MD	Ok,M
4	VSTDICC020	VY022992.D	18 Jul 2025 11:41	SY/MD	Ok,M
5	VSTDICCC050	VY022993.D	18 Jul 2025 12:04	SY/MD	Ok,M
6	VSTDICC100	VY022994.D	18 Jul 2025 12:27	SY/MD	Ok,M
7	VSTDICC150	VY022995.D	18 Jul 2025 12:49	SY/MD	Ok,M
8	VIBLK	VY022996.D	18 Jul 2025 13:39	SY/MD	Ok
9	VSTDICV050	VY022997.D	18 Jul 2025 14:02	SY/MD	Ok,M
10	VY0718SBL01	VY022998.D	18 Jul 2025 15:10	SY/MD	Ok
11	VY0718SBS01	VY022999.D	18 Jul 2025 15:37	SY/MD	Ok,M
12	VY0718SBSD01	VY023000.D	18 Jul 2025 16:00	SY/MD	Ok,M
13	Q2638-01	VY023001.D	18 Jul 2025 16:38	SY/MD	Ok
14	Q2638-03	VY023002.D	18 Jul 2025 17:01	SY/MD	Ok
15	Q2638-05	VY023003.D	18 Jul 2025 17:23	SY/MD	Ok
16	Q2638-07	VY023004.D	18 Jul 2025 17:46	SY/MD	Ok
17	Q2638-09	VY023005.D	18 Jul 2025 18:10	SY/MD	ReRun
18	Q2638-11	VY023006.D	18 Jul 2025 18:32	SY/MD	Ok
19	Q2638-13	VY023007.D	18 Jul 2025 18:55	SY/MD	Ok
20	Q2639-01	VY023008.D	18 Jul 2025 19:18	SY/MD	Ok
21	Q2639-03	VY023009.D	18 Jul 2025 19:41	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071825

Review By	Mahesh Dadoda	Review On	7/21/2025 1:59:01 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/21/2025 2:10:51 PM				
SubDirectory	VY071825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134827
Initial Calibration Stds	VP134828,VP134829,VP134830,VP134831,VP134832,VP134833
CCC	VP134834
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134834
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2639-05	VY023010.D	18 Jul 2025 20:03	SY/MD	Ok
23	Q2639-07	VY023011.D	18 Jul 2025 20:26	SY/MD	ReRun
24	Q2639-09	VY023012.D	18 Jul 2025 20:49	SY/MD	ReRun
25	VSTDCCC050	VY023013.D	18 Jul 2025 21:30	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 # VY072125

Review By	Mahesh Dadoda	Review On	7/22/2025 1:40:33 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/22/2025 1:54:30 PM				
SubDirectory	VY072125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134854
Initial Calibration Stds	
CCC	VP134855,VP134856
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023014.D	21 Jul 2025 08:24	SY/MD	Ok
2	VSTDCCC050	VY023015.D	21 Jul 2025 10:08	SY/MD	Ok,M
3	VY0721SBL01	VY023016.D	21 Jul 2025 10:39	SY/MD	Ok
4	VY0721SBS01	VY023017.D	21 Jul 2025 11:13	SY/MD	Ok,M
5	VY0721SBSD01	VY023018.D	21 Jul 2025 11:36	SY/MD	Ok,M
6	Q2638-09	VY023019.D	21 Jul 2025 12:16	SY/MD	Ok
7	Q2639-07	VY023020.D	21 Jul 2025 12:39	SY/MD	Ok
8	Q2639-09	VY023021.D	21 Jul 2025 13:03	SY/MD	Ok
9	Q2639-11	VY023022.D	21 Jul 2025 13:26	SY/MD	Ok
10	Q2639-13	VY023023.D	21 Jul 2025 13:49	SY/MD	Ok
11	Q2649-03	VY023024.D	21 Jul 2025 14:13	SY/MD	Ok
12	Q2649-07	VY023025.D	21 Jul 2025 14:36	SY/MD	Ok
13	Q2649-11	VY023026.D	21 Jul 2025 15:00	SY/MD	Ok
14	Q2649-15	VY023027.D	21 Jul 2025 15:23	SY/MD	Ok
15	Q2649-19	VY023028.D	21 Jul 2025 15:46	SY/MD	Ok
16	Q2649-23	VY023029.D	21 Jul 2025 16:10	SY/MD	Ok
17	Q2651-01	VY023030.D	21 Jul 2025 16:33	SY/MD	ReRun
18	Q2651-02	VY023031.D	21 Jul 2025 16:57	SY/MD	Ok
19	Q2651-03	VY023032.D	21 Jul 2025 17:20	SY/MD	Ok
20	Q2651-04	VY023033.D	21 Jul 2025 17:43	SY/MD	Ok
21	Q2651-05	VY023034.D	21 Jul 2025 18:07	SY/MD	ReRun

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY072125

Review By	Mahesh Dadoda	Review On	7/22/2025 1:40:33 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/22/2025 1:54:30 PM				
SubDirectory	VY072125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134854
Initial Calibration Stds	
CCC	VP134855,VP134856
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2660-01	VY023035.D	21 Jul 2025 18:30	SY/MD	Ok
23	VIBLK	VY023036.D	21 Jul 2025 18:54	SY/MD	Ok
24	VSTDCCC050	VY023037.D	21 Jul 2025 19:16	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 # VY071825

Review By	Mahesh Dadoda	Review On	7/21/2025 1:59:01 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/21/2025 2:10:51 PM		
SubDirectory	VY071825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134827
Initial Calibration Stds	VP134828,VP134829,VP134830,VP134831,VP134832,VP134833
CCC	VP134834
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134834
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022989.D	18 Jul 2025 09:38		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022990.D	18 Jul 2025 10:08		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022991.D	18 Jul 2025 10:54	Method failed for com.#13	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022992.D	18 Jul 2025 11:41		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022993.D	18 Jul 2025 12:04	Comp. #20 is on Linear Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022994.D	18 Jul 2025 12:27		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022995.D	18 Jul 2025 12:49		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022996.D	18 Jul 2025 13:39		SY/MD	Ok
9	VSTDICV050	ICVVY071825	VY022997.D	18 Jul 2025 14:02	Icv Failed for Com.# 13	SY/MD	Ok,M
10	VY0718SBL01	VY0718SBL01	VY022998.D	18 Jul 2025 15:10		SY/MD	Ok
11	VY0718SBS01	VY0718SBS01	VY022999.D	18 Jul 2025 15:37		SY/MD	Ok,M
12	VY0718SBSD01	VY0718SBSD01	VY023000.D	18 Jul 2025 16:00		SY/MD	Ok,M
13	Q2638-01	OU4-TS-31-071725	VY023001.D	18 Jul 2025 16:38	vial-A	SY/MD	Ok
14	Q2638-03	OU4-TS-32-071725	VY023002.D	18 Jul 2025 17:01	vial-A	SY/MD	Ok
15	Q2638-05	OU4-TS-33-071725	VY023003.D	18 Jul 2025 17:23	vial-A	SY/MD	Ok
16	Q2638-07	OU4-TS-34-071725	VY023004.D	18 Jul 2025 17:46	vial-A	SY/MD	Ok
17	Q2638-09	OU4-TS-35-071725	VY023005.D	18 Jul 2025 18:10	vial-A Internal Standard Fail	SY/MD	ReRun

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071825

Review By	Mahesh Dadoda	Review On	7/21/2025 1:59:01 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/21/2025 2:10:51 PM		
SubDirectory	VY071825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134827
Initial Calibration Stds	VP134828,VP134829,VP134830,VP134831,VP134832,VP134833
CCC	VP134834
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134834
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2638-11	OU4-TS-36-071725	VY023006.D	18 Jul 2025 18:32	vial-A	SY/MD	Ok
19	Q2638-13	OU4-TS-37-071725	VY023007.D	18 Jul 2025 18:55	vial-A	SY/MD	Ok
20	Q2639-01	OU4-TS-38-071725	VY023008.D	18 Jul 2025 19:18	vial-A	SY/MD	Ok
21	Q2639-03	OU4-TS-39-071725	VY023009.D	18 Jul 2025 19:41	vial-A	SY/MD	Ok
22	Q2639-05	OU4-TS-40-071725	VY023010.D	18 Jul 2025 20:03	vial-A	SY/MD	Ok
23	Q2639-07	OU4-TS-41-071725	VY023011.D	18 Jul 2025 20:26	vial-A Surrogate Fail	SY/MD	ReRun
24	Q2639-09	OU4-TS-42-071725	VY023012.D	18 Jul 2025 20:49	vial-A Surrogate Fail	SY/MD	ReRun
25	VSTDCCC050	VSTDCCC050EC	VY023013.D	18 Jul 2025 21:30		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 # VY072125

Review By	Mahesh Dadoda	Review On	7/22/2025 1:40:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/22/2025 1:54:30 PM		
SubDirectory	VY072125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134854
Initial Calibration Stds	
CCC	VP134855,VP134856
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023014.D	21 Jul 2025 08:24		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023015.D	21 Jul 2025 10:08		SY/MD	Ok,M
3	VY0721SBL01	VY0721SBL01	VY023016.D	21 Jul 2025 10:39		SY/MD	Ok
4	VY0721SBS01	VY0721SBS01	VY023017.D	21 Jul 2025 11:13		SY/MD	Ok,M
5	VY0721SBSD01	VY0721SBSD01	VY023018.D	21 Jul 2025 11:36		SY/MD	Ok,M
6	Q2638-09	OU4-TS-35-071725	VY023019.D	21 Jul 2025 12:16	vial-B	SY/MD	Ok
7	Q2639-07	OU4-TS-41-071725	VY023020.D	21 Jul 2025 12:39	vial-B	SY/MD	Ok
8	Q2639-09	OU4-TS-42-071725	VY023021.D	21 Jul 2025 13:03	vial-B	SY/MD	Ok
9	Q2639-11	OU4-TS-43-071725	VY023022.D	21 Jul 2025 13:26	vial-A	SY/MD	Ok
10	Q2639-13	OU4-TS-44-071725	VY023023.D	21 Jul 2025 13:49	vial-A	SY/MD	Ok
11	Q2649-03	WC-1-VOC	VY023024.D	21 Jul 2025 14:13	vial-A	SY/MD	Ok
12	Q2649-07	WC-2-VOC	VY023025.D	21 Jul 2025 14:36	vial-A	SY/MD	Ok
13	Q2649-11	WC-3-VOC	VY023026.D	21 Jul 2025 15:00	vial-A	SY/MD	Ok
14	Q2649-15	WC-4-VOC	VY023027.D	21 Jul 2025 15:23	vial-A	SY/MD	Ok
15	Q2649-19	WC-5-VOC	VY023028.D	21 Jul 2025 15:46	vial-A	SY/MD	Ok
16	Q2649-23	WC-6-VOC	VY023029.D	21 Jul 2025 16:10	vial-A	SY/MD	Ok
17	Q2651-01	MH 2-1	VY023030.D	21 Jul 2025 16:33	vial-A Internal Standard Fail	SY/MD	ReRun
18	Q2651-02	MH 6-5	VY023031.D	21 Jul 2025 16:57	vial-A	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY072125

Review By	Mahesh Dadoda	Review On	7/22/2025 1:40:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/22/2025 1:54:30 PM		
SubDirectory	VY072125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071825s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134854
Initial Calibration Stds	
CCC	VP134855,VP134856
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2651-03	MH 7-6	VY023032.D	21 Jul 2025 17:20	vial-A	SY/MD	Ok
20	Q2651-04	MH 8-7	VY023033.D	21 Jul 2025 17:43	vial-A	SY/MD	Ok
21	Q2651-05	MH 9-8	VY023034.D	21 Jul 2025 18:07	vial-A Internal Standard Fail	SY/MD	ReRun
22	Q2660-01	MOO-25-0205	VY023035.D	21 Jul 2025 18:30	vial-A	SY/MD	Ok
23	VIBLK	VIBLK	VY023036.D	21 Jul 2025 18:54		SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY023037.D	21 Jul 2025 19:16		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136542

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
Q2637-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q2637-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q2637-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q2637-10	SVOC-GPC2-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2637-11	PEST-GPC2-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q2637-12	PEST-GPC2-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q2638-01	OU4-TS-31-071725	7	1.15	10.44	11.59	8.29	68.4	
Q2638-03	OU4-TS-32-071725	8	1.14	10.41	11.55	7.92	65.1	
Q2638-05	OU4-TS-33-071725	9	1.12	10.69	11.81	8.04	64.7	
Q2638-07	OU4-TS-34-071725	10	1.18	10.81	11.99	8.58	68.5	
Q2638-09	OU4-TS-35-071725	11	1.18	10.24	11.42	9.62	82.4	
Q2638-11	OU4-TS-36-071725	12	1.16	10.22	11.38	9.53	81.9	
Q2638-13	OU4-TS-37-071725	13	1.14	10.27	11.41	9.48	81.2	
Q2639-01	OU4-TS-38-071725	14	1.16	10.58	11.74	9.69	80.6	
Q2639-03	OU4-TS-39-071725	15	1.12	10.64	11.76	9.74	81.0	
Q2639-05	OU4-TS-40-071725	16	1.16	10.23	11.39	9.42	80.7	
Q2639-07	OU4-TS-41-071725	17	1.18	10.20	11.38	9.54	82.0	
Q2639-09	OU4-TS-42-071725	18	1.19	10.34	11.53	7.42	60.3	
Q2639-11	OU4-TS-43-071725	19	1.19	10.67	11.86	7.38	58.0	
Q2639-13	OU4-TS-44-071725	20	1.12	10.87	11.99	8.18	64.9	
Q2641-01	P001-CONCRETE001-01	21	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2645-02	RW5B-CARBON-20250716	22	1.17	10.52	11.69	8.39	68.6	
Q2648-01	A3	23	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-02	A4	24	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-03	B2	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-04	B3	26	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-05	B4	27	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2651-01	MH 2-1	28	1.18	10.67	11.85	11.26	94.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136542

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
Q2651-02	MH 6-5	29	1.15	10.40	11.55	10.9	93.8	
Q2651-03	MH 7-6	30	1.12	10.20	11.32	10.7	93.9	
Q2651-04	MH 8-7	31	1.13	10.44	11.57	11.01	94.6	
Q2651-05	MH 9-8	32	1.13	10.27	11.4	10.67	92.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WR 136542

WorkList Name : %1-071825 **WorkList ID :** 190813 **Department :** Wet-Chemistry **Date :** 07-18-2025 07:56:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2637-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2638-01	OU4-TS-31-071725	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2638-03	OU4-TS-32-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-05	OU4-TS-33-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-07	OU4-TS-34-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-09	OU4-TS-35-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-11	OU4-TS-36-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-13	OU4-TS-37-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2639-01	OU4-TS-38-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2639-03	OU4-TS-39-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-05	OU4-TS-40-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-07	OU4-TS-41-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-09	OU4-TS-42-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-11	OU4-TS-43-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-13	OU4-TS-44-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2641-01	P001-CONCRETE001-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	O22	07/16/2025	Chemtech -SO

Date/Time 07/18/25 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 07/18/25 17:35

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 136542

WorkList Name : %1-071825 **WorkList ID :** 190813 **Department :** Wet-Chemistry **Date :** 07-18-2025 07:56:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2645-02	RW5B-CARBON-20250716	Solid	Percent Solids	Cool 4 deg C	TETR06	O41	07/16/2025	Chemtech -SO
Q2648-01	A3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-02	A4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-03	B2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-04	B3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-05	B4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2651-01	MH 2-1	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-02	MH 6-5	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-03	MH 7-6	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-04	MH 8-7	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-05	MH 9-8	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO

Date/Time 07/18/25 15:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 07/18/25 17:35

Raw Sample Received by:

Raw Sample Relinquished by:

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

Prep Standard - Chemical Standard Summary

Order ID : Q2639

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VY071825,VY072125,

Standard ID :
VP133175,VP133176,VP133934,VP133953,VP134145,VP134147,VP134149,VP134150,VP134151,VP134263,VP134264,VP134478,VP134479,VP134480,VP134568,VP134569,VP134742,VP134810,VP134811,VP134812,VP134814,VP134815,VP134827,VP134828,VP134829,VP134830,VP134831,VP134832,VP134833,VP134834,VP134854,VP134855,VP134856,

Chemical ID :
V12968,V13391,V13450,V13583,V13584,V13706,V13826,V14128,V14181,V14199,V14290,V14438,V14440,V14505,V14506,V14527,V14528,V14613,V14626,V14629,V14636,V14637,V14638,V14639,V14673,V14675,V14708,V14712,V14713,V14748,V14752,V14795,V14808,V14822,V14843,V14921,V14929,V14977,V15050,V15051,V15052,V15055,V15056,W3112,

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP133176	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.02000ml of V13706 + 24.99000ml of V14613 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1917	8260 Internal standard 50 ppm	VP133934	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP134145	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.50000ml of V14675 + 49.50000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP134147	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14673 + 19.00000ml of V14929 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1811	8260 Working Std(2-CVE)-500ppm	VP134150	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 7.50000ml of V14929 + 12.50000ml of VP134149 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2025

FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1819	8260 Working Std(2-CVE)-SS, 500ppm	VP134264	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2025

FROM 1.87500ml of V14921 + 3.12500ml of VP134263 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP134478	06/24/2025	08/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/26/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14438 + 1.00000ml of V14440 + 1.00000ml of V14505 + 1.00000ml of V14506 + 1.00000ml of V14527 + 1.00000ml of V14528 + 1.00000ml of V14708 + 1.00000ml of V14748 + 1.00000ml of V14752 + 1.00000ml of V14808 + 1.00000ml of V14822 + 1.50000ml of V14712 + 1.50000ml of V14713 + 10.60000ml of V14929 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
244	8260 Calibration Working STD Mix-First source, 100PPM	VP134479	06/24/2025	08/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/26/2025

FROM 5.62500ml of V14929 + 9.37500ml of VP134478 = Final Quantity: 15.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP134480	06/24/2025	08/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/26/2025

FROM 17.50000ml of V14929 + 2.50000ml of VP134478 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP134568	06/30/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/15/2025

FROM 0.16000ml of V13450 + 0.80000ml of V13826 + 0.80000ml of V14128 + 0.80000ml of V14181 + 0.80000ml of V14795 + 0.80000ml of V14977 + 1.60000ml of V14199 + 4.24000ml of V14929 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
260	8260 Calibration Working STD Mix-Second source, 100PPM	VP134569	06/30/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/15/2025

FROM 1.87500ml of V14929 + 3.12500ml of VP134568 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
262	8260 Working STD (BCM)-Second source, 100PPM	VP134742	07/14/2025	01/07/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.00000ml of V12968 + 9.00000ml of V14629 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP134810	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.00000ml of V15052 + 1.50000ml of V15050 + 1.50000ml of V15051 + 21.00000ml of V14629 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP134811	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 5.62500ml of V14629 + 9.37500ml of VP134810 = Final Quantity: 15.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP134812	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 17.50000ml of V14629 + 2.50000ml of VP134810 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP134814	07/18/2025	08/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 0.60000ml of V15056 + 1.00000ml of V15055 + 8.40000ml of V14629 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
264	8260 Working STD (Acrolein)-Second source, 500PPM	VP134815	07/18/2025	08/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.87500ml of V14629 + 3.12500ml of VP134814 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP134827	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP133953 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
267	5 PPB ICC, 8260-SOIL	VP134828	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.98800ml of W3112 + 0.00130ml of VP133176 + 0.00130ml of VP134145 + 0.00130ml of VP134151 + 0.00130ml of VP134480 + 0.00130ml of VP134812 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
269	10 PPB ICC, 8260-SOIL	VP134829	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP133176 + 0.00250ml of VP134145 + 0.00250ml of VP134151 + 0.00250ml of VP134480 + 0.00250ml of VP134812 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
270	20 PPB ICC, 8260-SOIL	VP134830	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.96500ml of W3112 + 0.00500ml of VP133176 + 0.00500ml of VP133934 + 0.00500ml of VP134145 + 0.00500ml of VP134151 + 0.00500ml of VP134480 + 0.00500ml of VP134812 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
273	50 PPB ICC, 8260-SOIL	VP134831	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP133175 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134479 + 0.00250ml of VP134811 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
280	100 PPB ICC, 8260-SOIL	VP134832	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.96500ml of W3112 + 0.00500ml of VP133175 + 0.00500ml of VP133934 + 0.00500ml of VP134147 + 0.00500ml of VP134150 + 0.00500ml of VP134479 + 0.00500ml of VP134811 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1653	150 PPB ICC,8260-SOIL	VP134833	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.95000ml of W3112 + 0.00500ml of VP133934 + 0.00750ml of VP133175 + 0.00750ml of VP134147 + 0.00750ml of VP134150 + 0.00750ml of VP134479 + 0.00750ml of VP134811 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
287	50 PPB ICV, 8260-SOIL	VP134834	07/18/2025	07/19/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP133175 + 0.00250ml of VP134264 + 0.00250ml of VP134569 + 0.00250ml of VP134742 + 0.00250ml of VP134815 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP134854	07/21/2025	07/22/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP133953 = 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	VP134855	07/21/2025	07/22/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP133175 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134479 + 0.00250ml of VP134811 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP134856	07/21/2025	07/22/2025	Amit Patel	None	None	Mahesh Dadoda 07/23/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP133175 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134479 + 0.00250ml of VP134811 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/14/2026	07/14/2025 / SAM	07/06/2022 / SAM	V12968

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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	12/23/2025	06/23/2025 / SAM	05/31/2023 / SAM	V13826

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)	011624	12/23/2025	06/23/2025 / SAM	01/17/2024 / SAM	V14128

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)	021524	12/23/2025	06/23/2025 / SAM	02/20/2024 / SAM	V14181

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	11/07/2025	05/07/2025 / SAM	02/28/2024 / SAM	V14199

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	06/23/2025 / SAM	08/15/2024 / SAM	V14438

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	06/23/2025 / SAM	08/15/2024 / SAM	V14440

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	12/23/2025	06/23/2025 / SAM	09/17/2024 / SAM	V14505

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	12/23/2025	06/23/2025 / SAM	09/17/2024 / SAM	V14506

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	12/23/2025	06/23/2025 / SAM	09/18/2024 / SAM	V14527

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	12/23/2025	06/23/2025 / SAM	09/18/2024 / SAM	V14528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14708

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	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14712

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	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14713

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	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14748

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14752

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	A0220563	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14795

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	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14808

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	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0220531	12/23/2025	06/23/2025 / SAM	05/19/2025 / SAM	V14977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15050

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15051

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15052

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071525	08/15/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15055

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071525	08/15/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15056

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Bottles

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

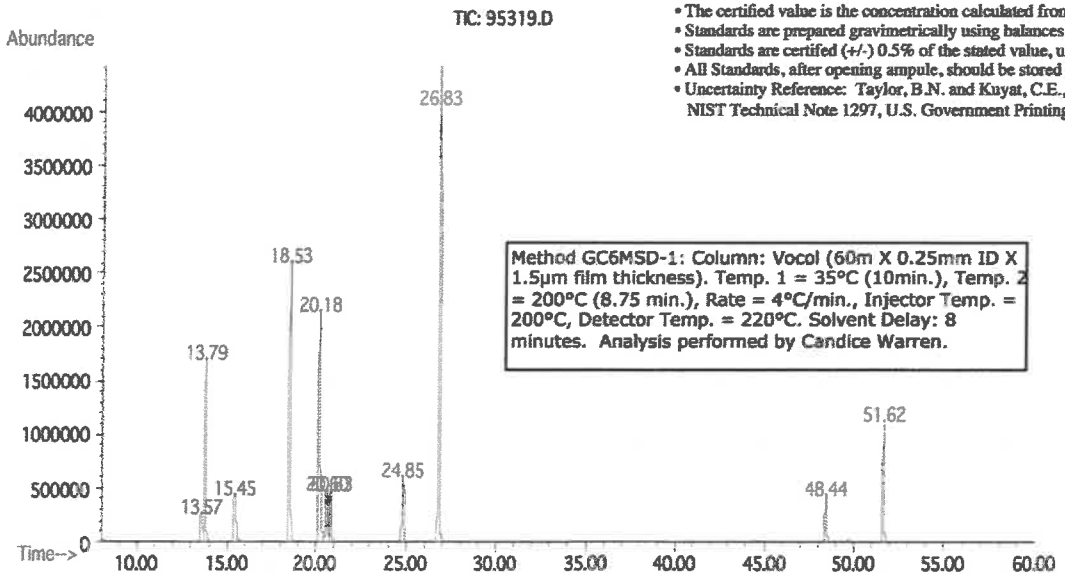
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol Lot# EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 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.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/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 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 5E-05 Balance Uncertainty 0.021 Flask Uncertainty

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended 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	0.20022	2001.5	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	0.20222	2001.5	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	0.20020	2001.3	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	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	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	0.20118	2001.2	8.1	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	0.20209	2000.2	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	0.20042	2001.7	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	0.20030	2000.5	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	0.20230	2002.3	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	0.20570	2001.0	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	0.20415	2000.2	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	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	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 149.8mg/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	40005.6	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 1260mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

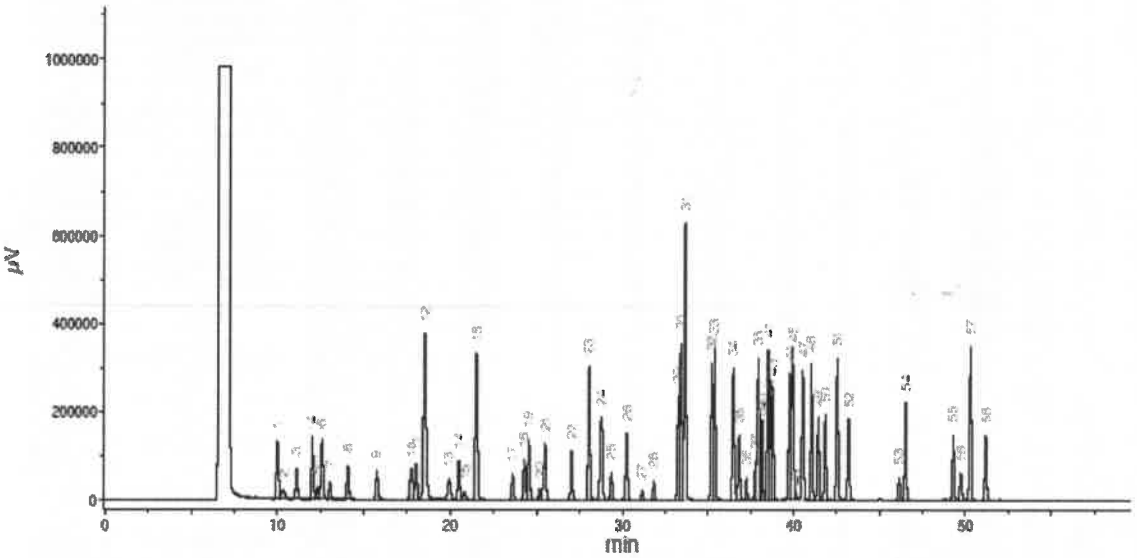
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 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., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
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	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.22
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

	Compound	(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 149.8mg/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

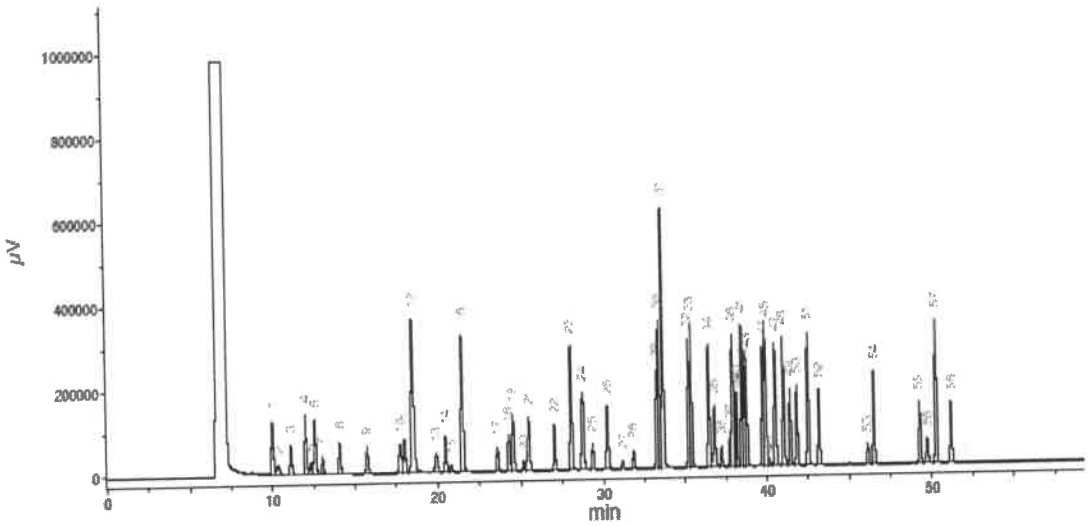
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.02
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	50.46
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))			% (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 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

	Compound	(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 149.8mg/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

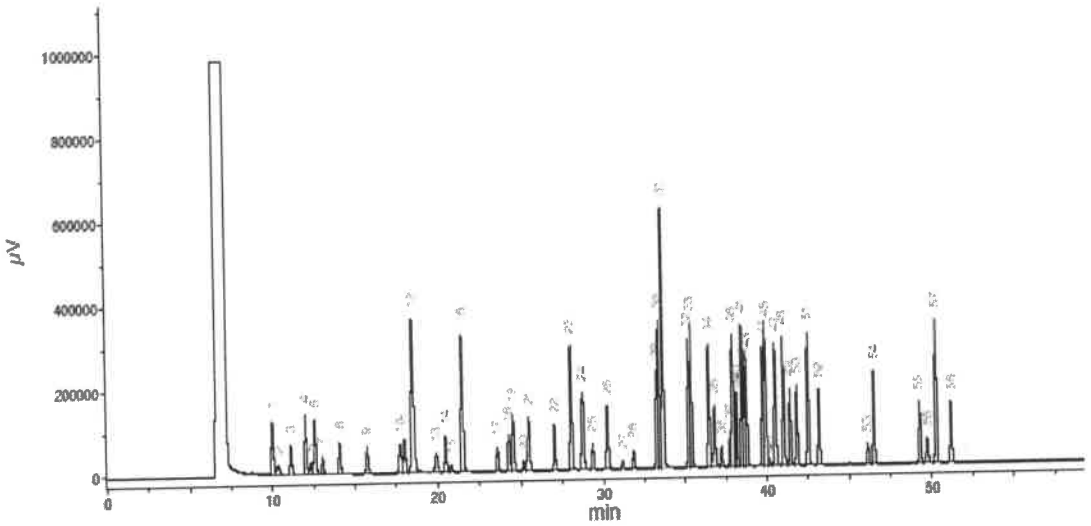
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, 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	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.02
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	50.46
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))			% (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 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

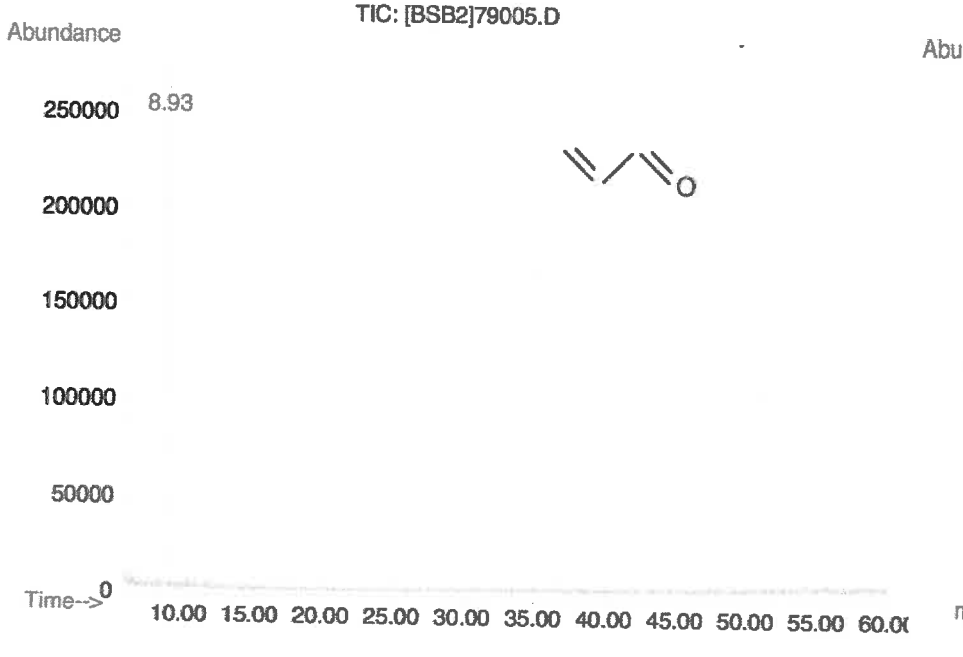
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

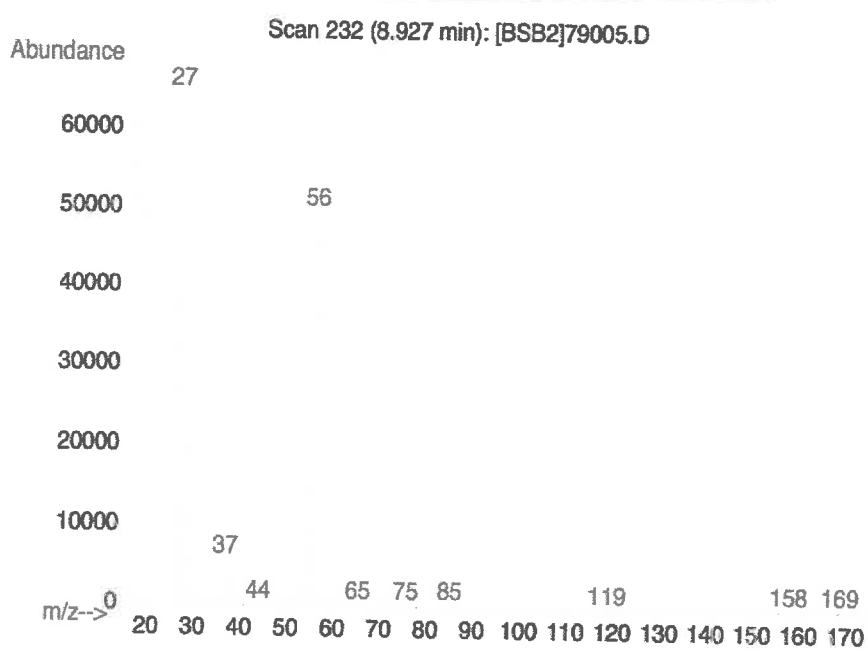
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

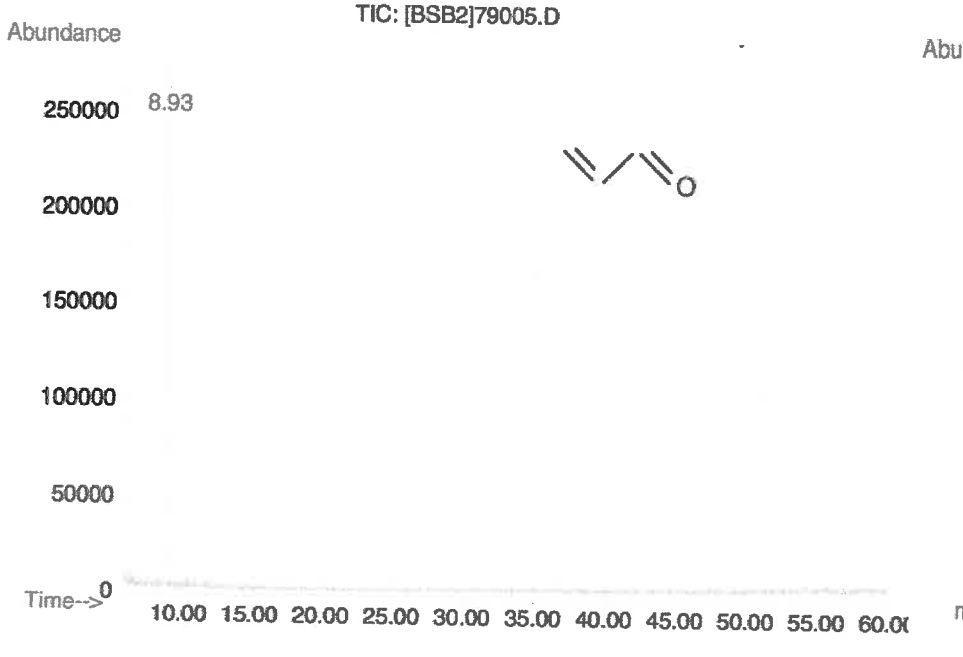
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

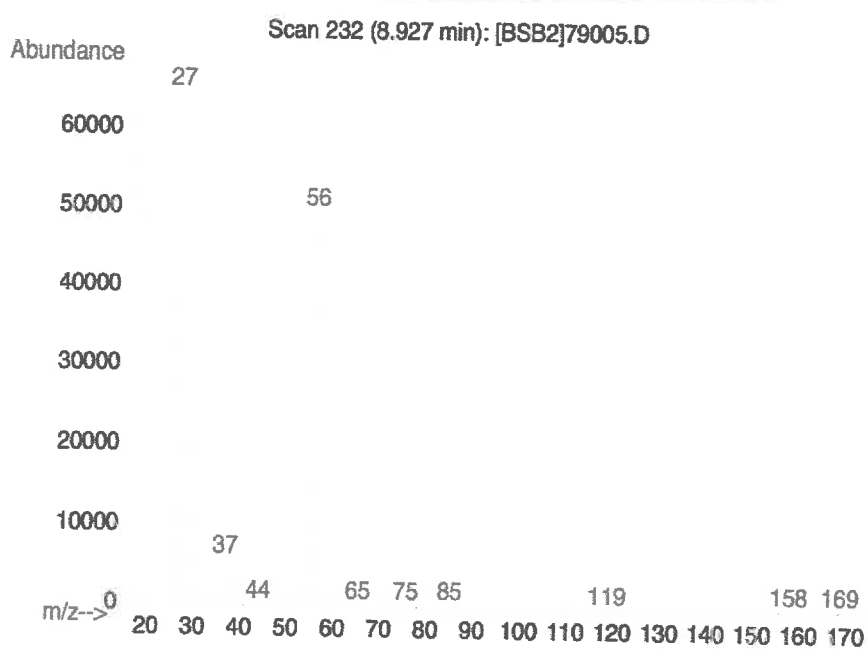
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

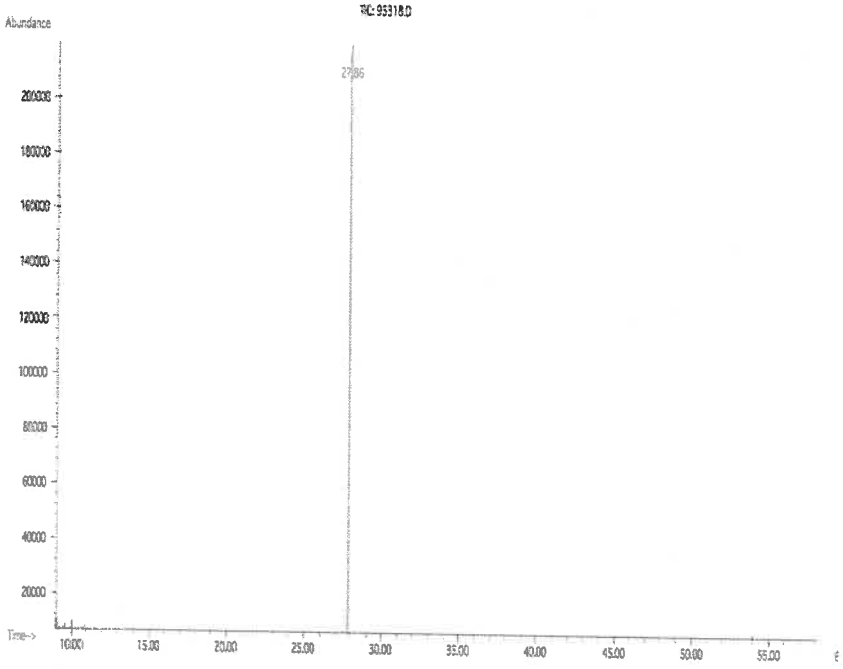
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

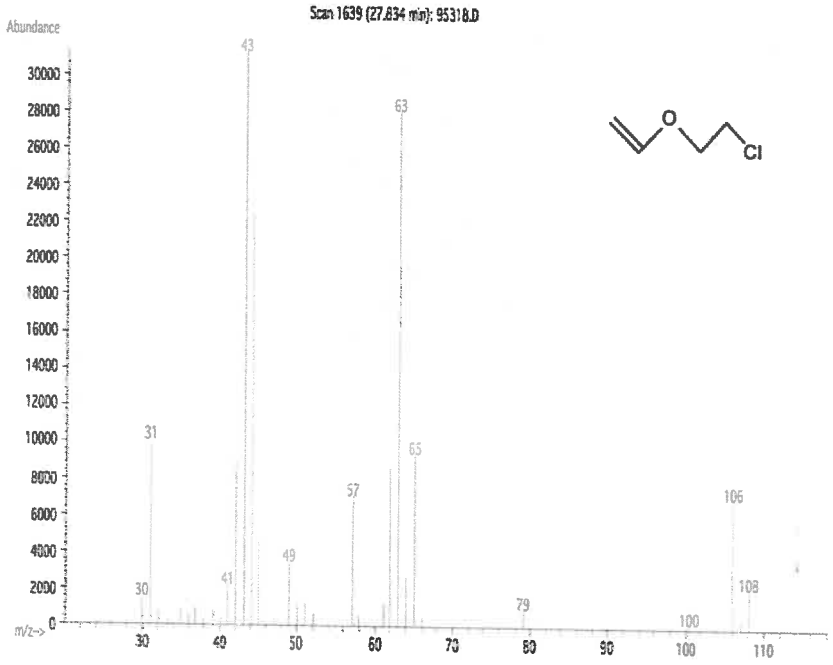
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 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	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

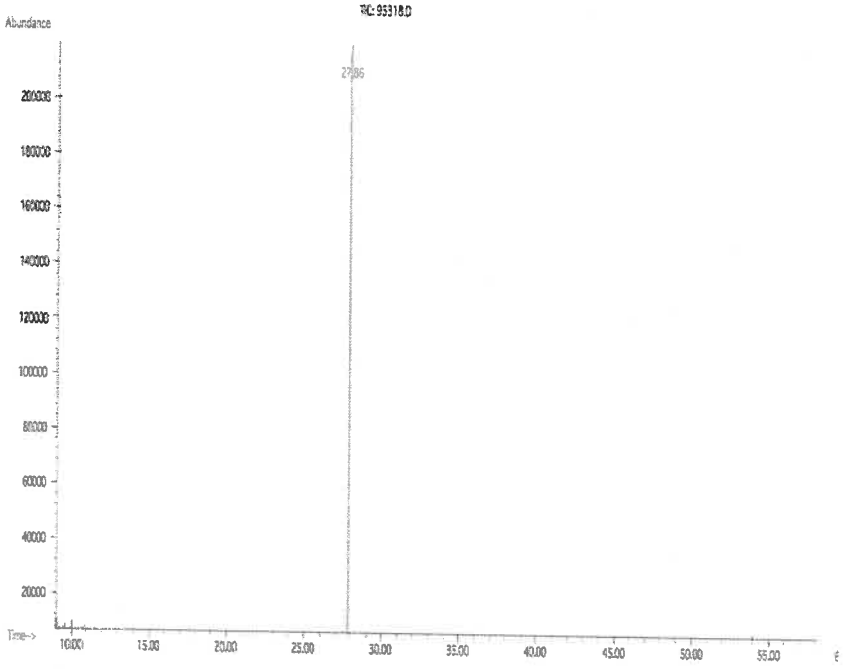
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

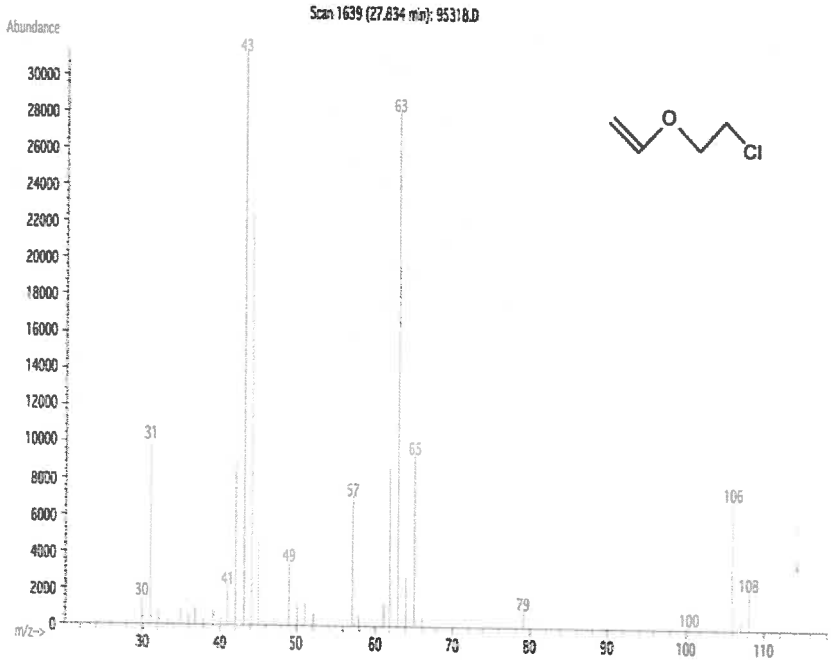
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 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	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

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

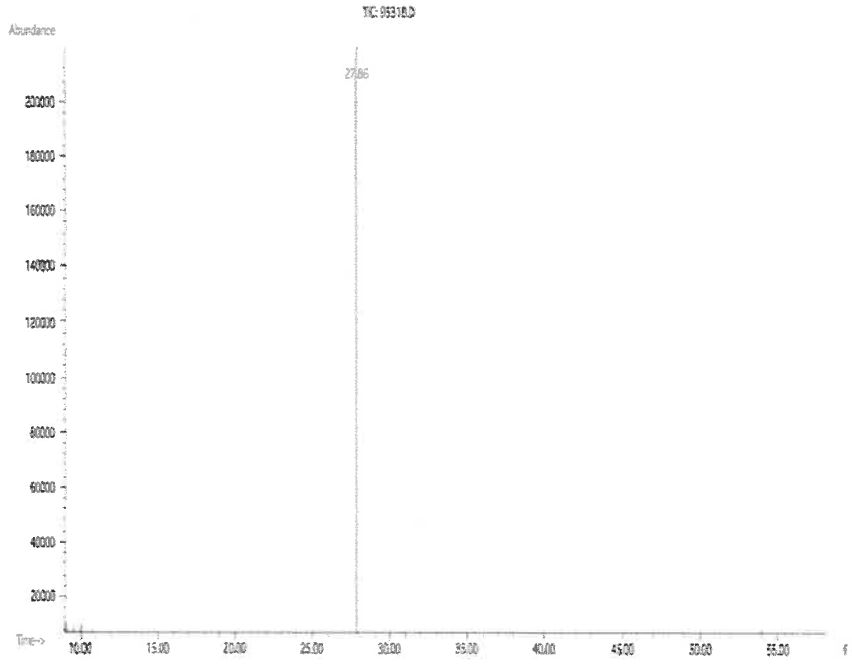
V14630 to V14649

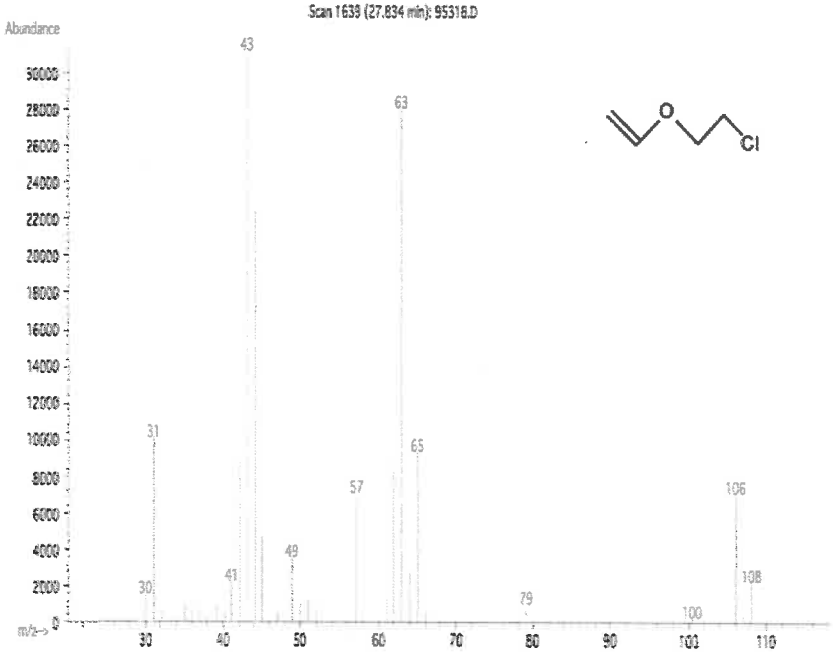
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

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

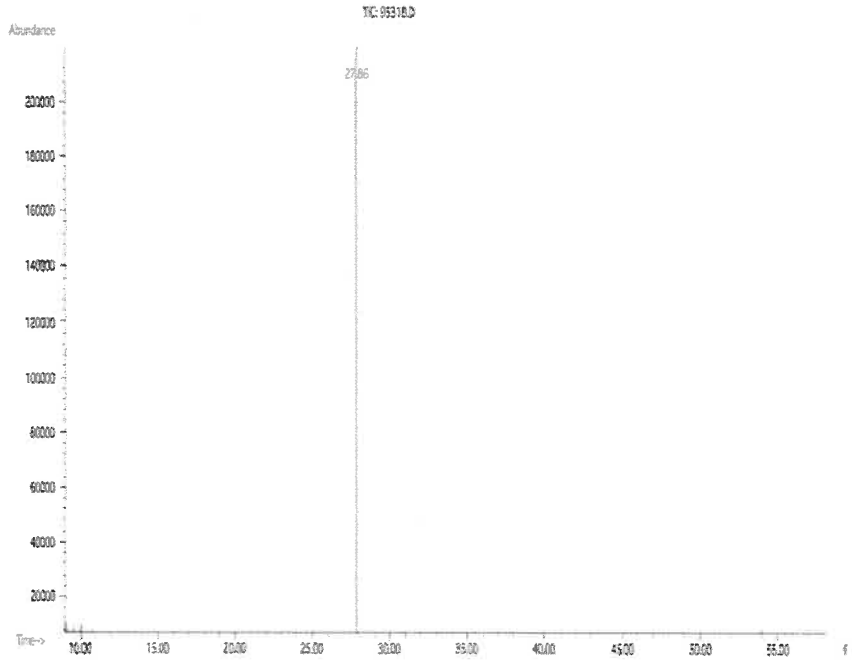
V14630 to V14649

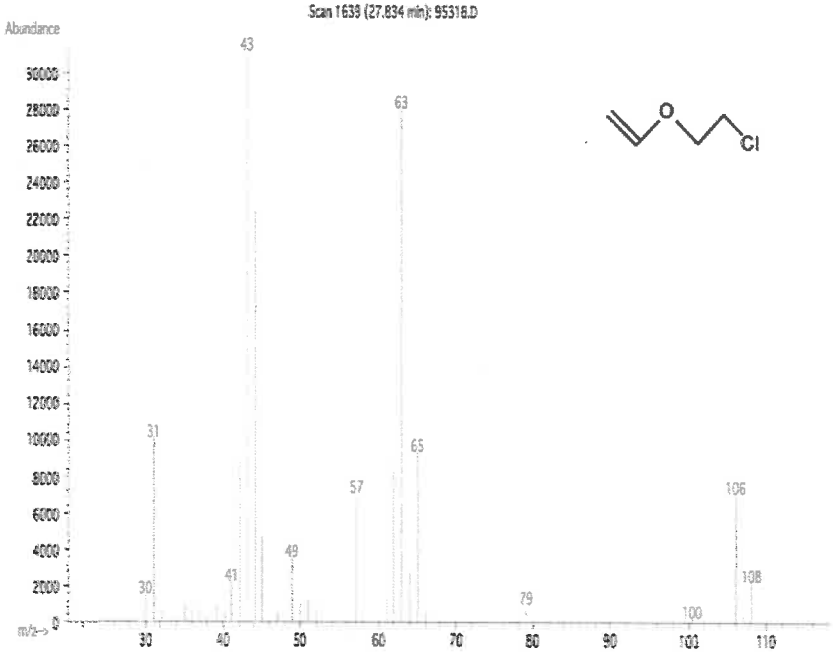
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

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

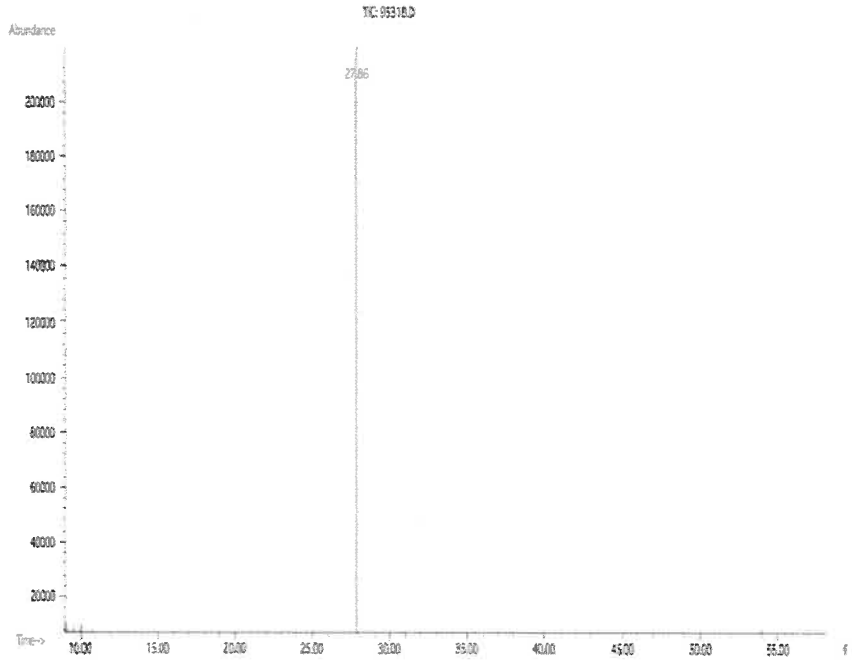
V14630 to V14649

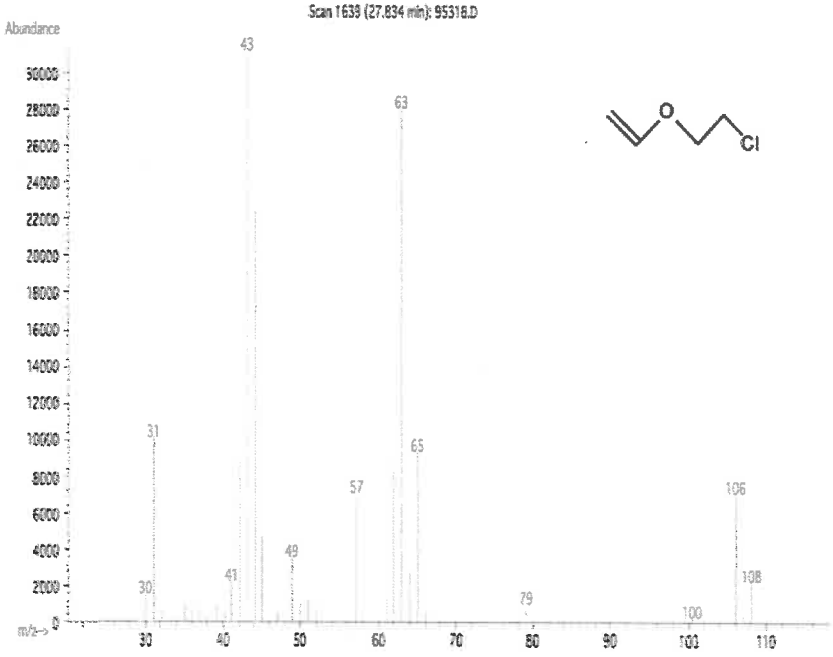
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

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

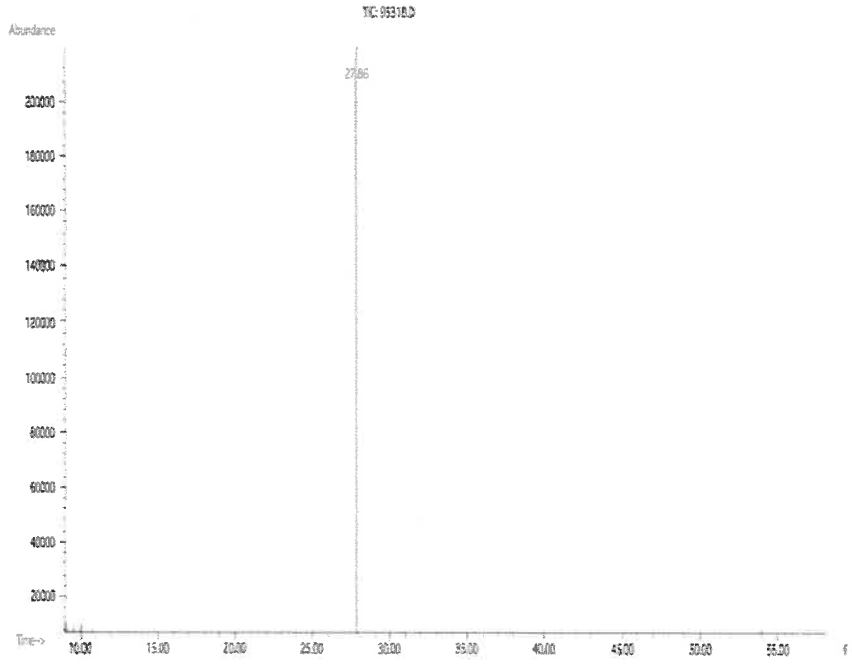
V14630 to V14649

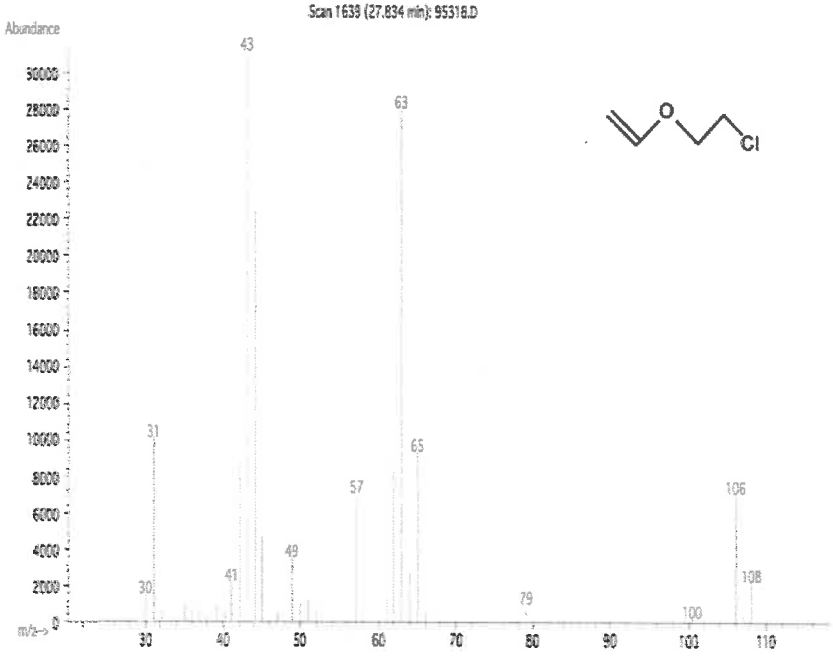
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

4 J

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30470 **Lot No.:** A0191703

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 : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

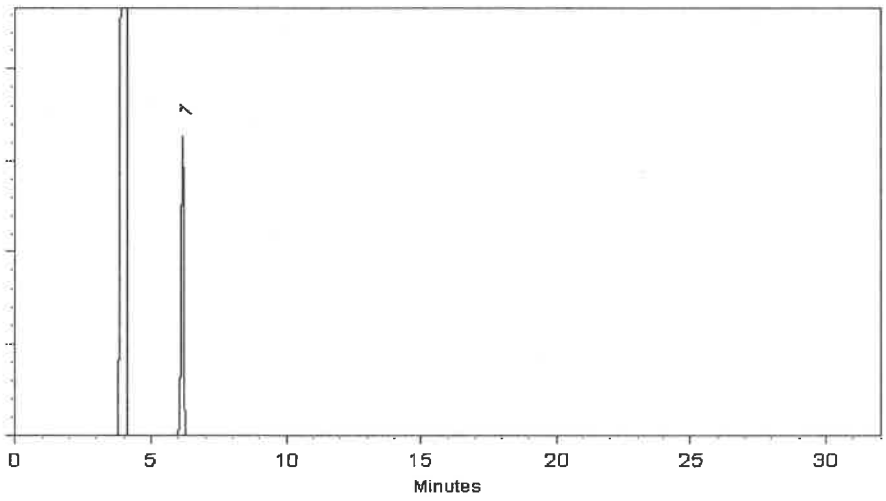
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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



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:** 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 17-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

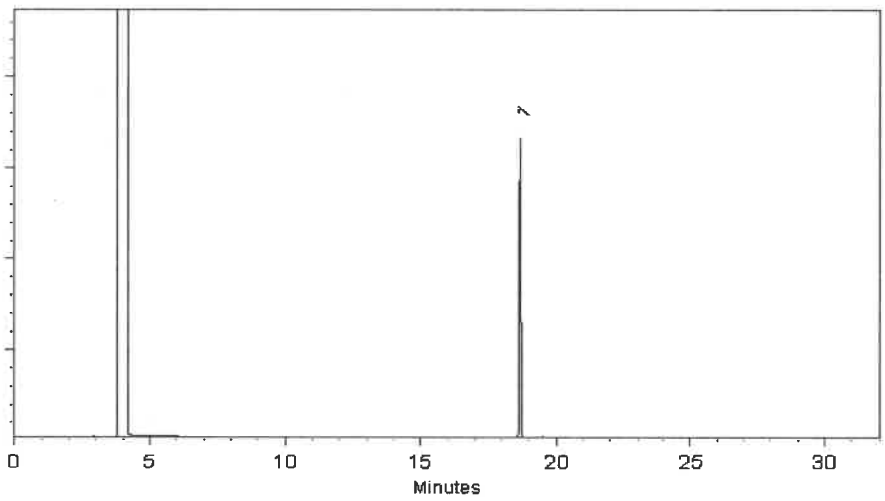
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I **Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0197644

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 : January 31, 2030 **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	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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.

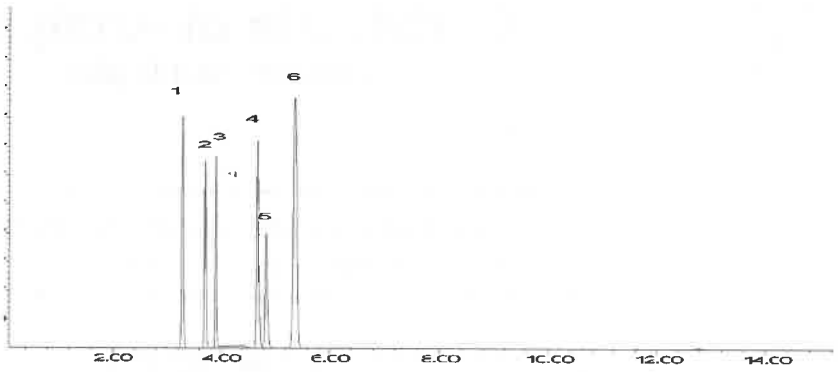
Inj. Temp:
200°C

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.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

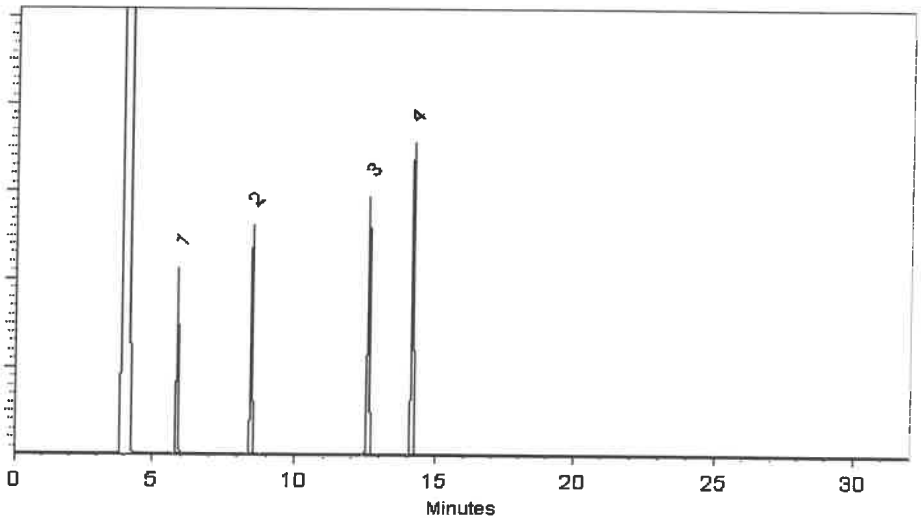
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

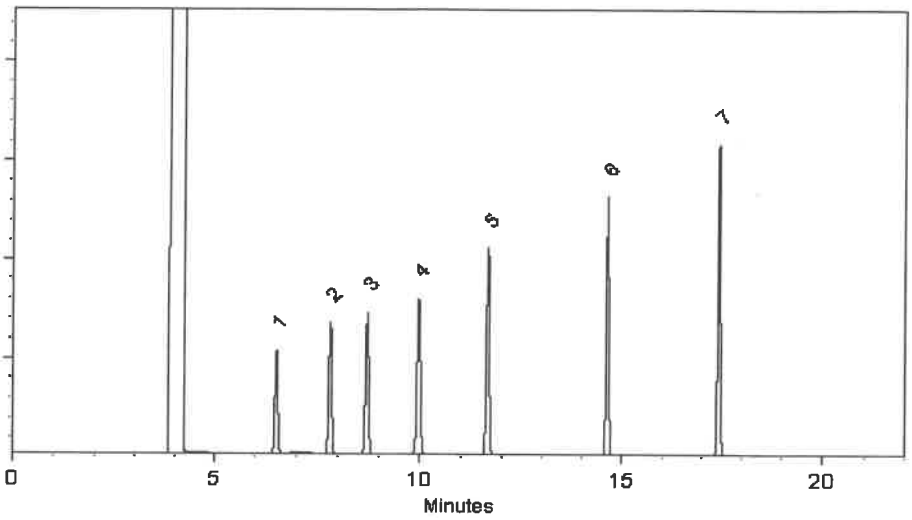
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

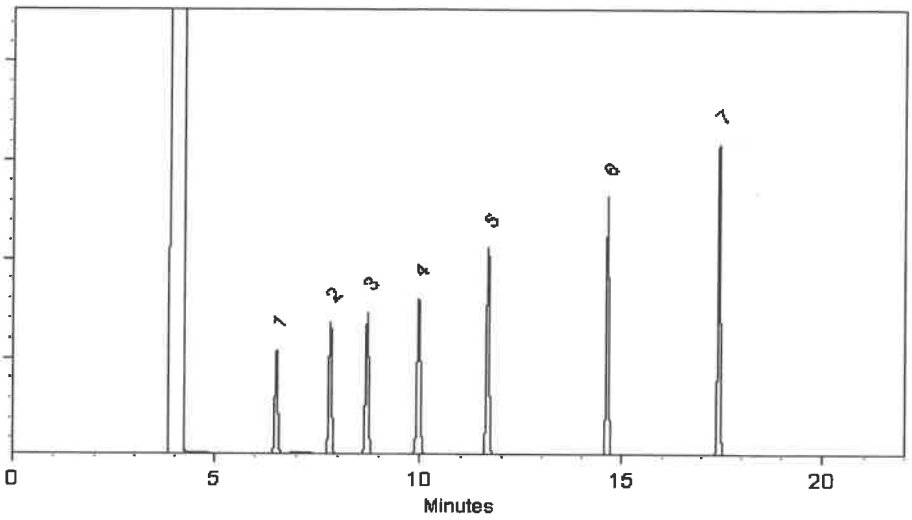
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

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. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

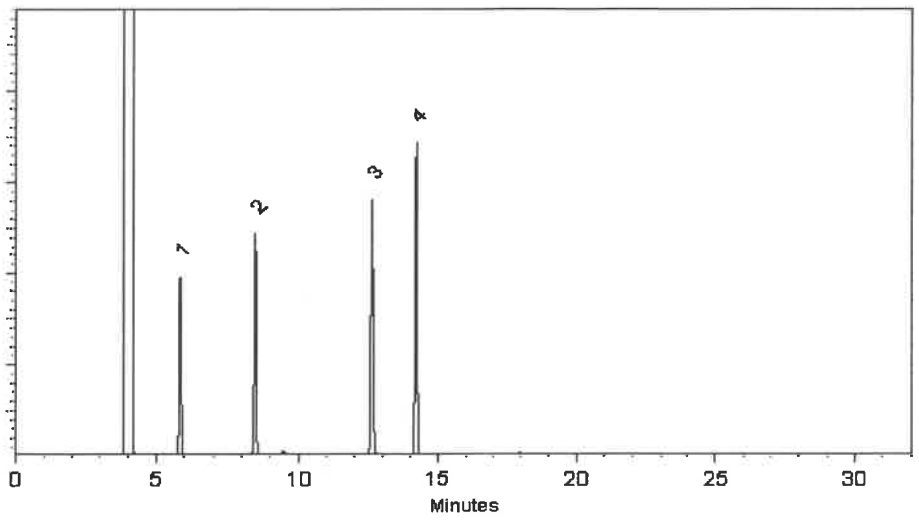
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

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. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

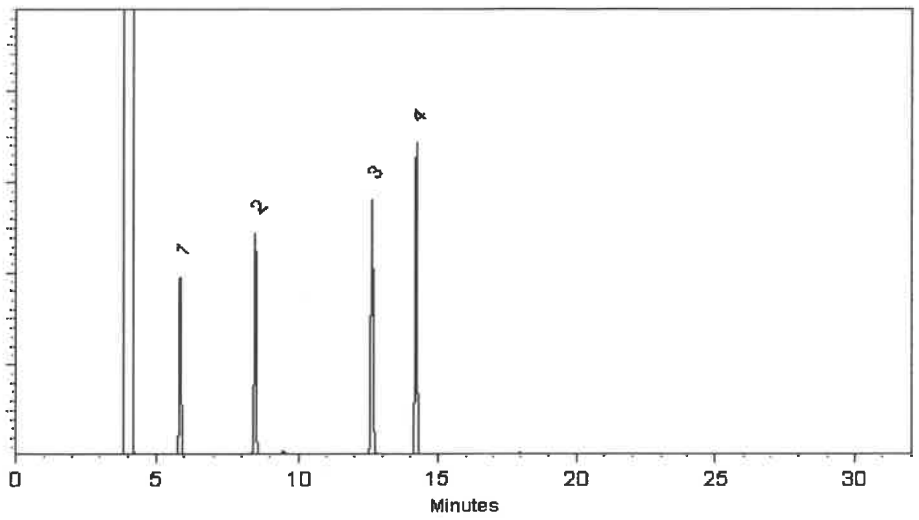
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

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. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

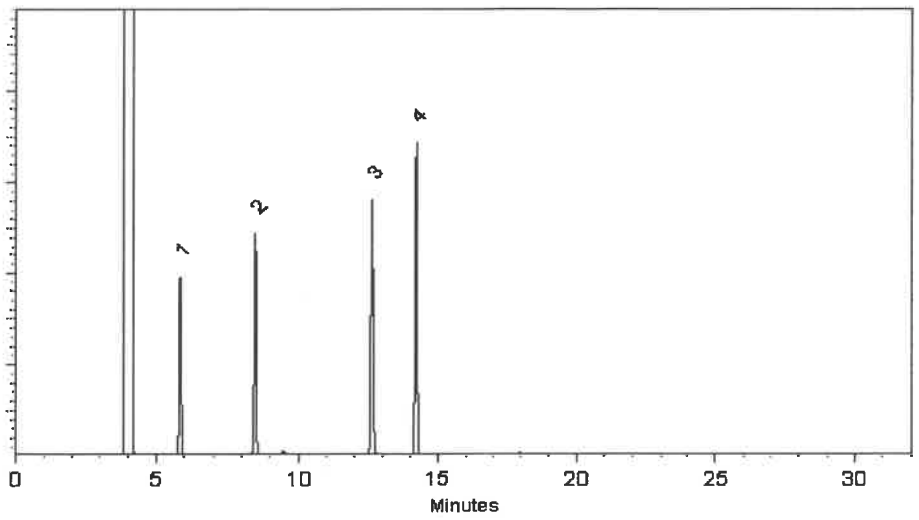
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

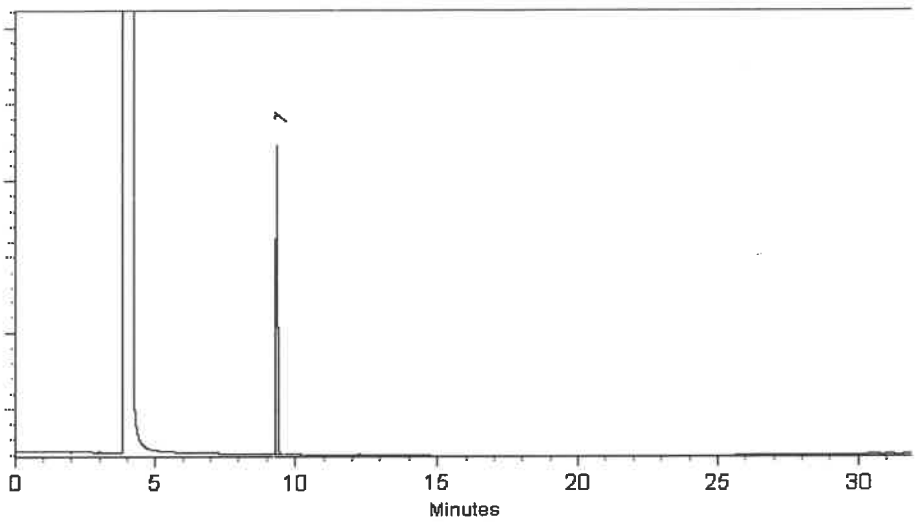
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

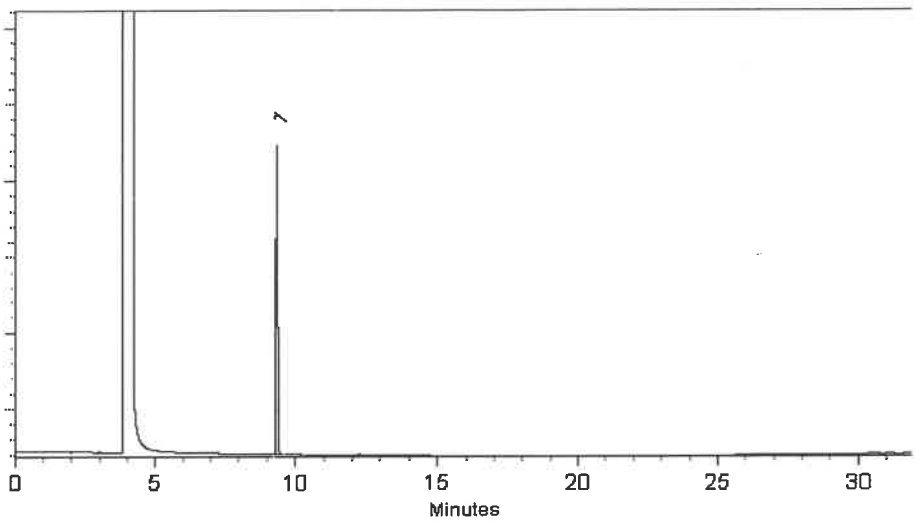
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

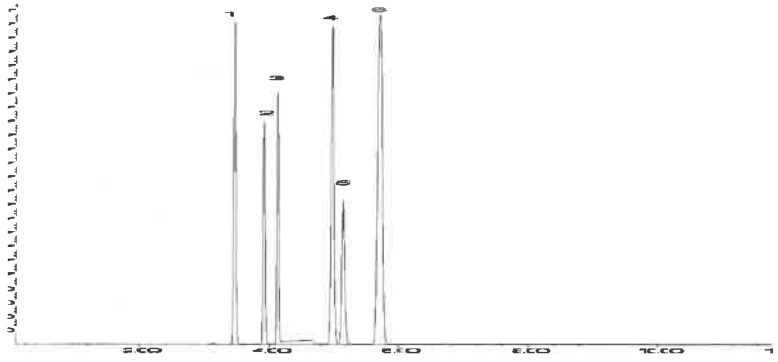
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

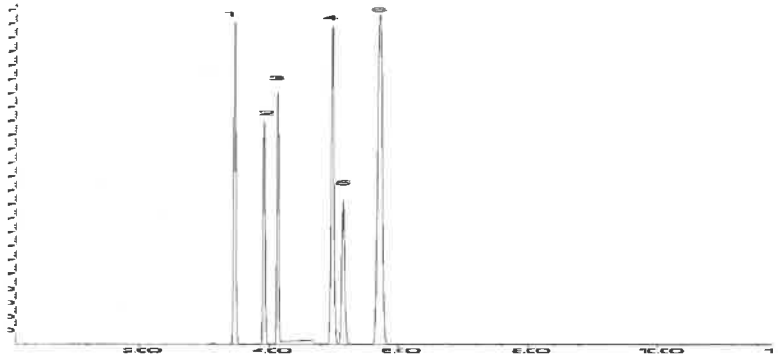
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

J 148421 to 148426

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

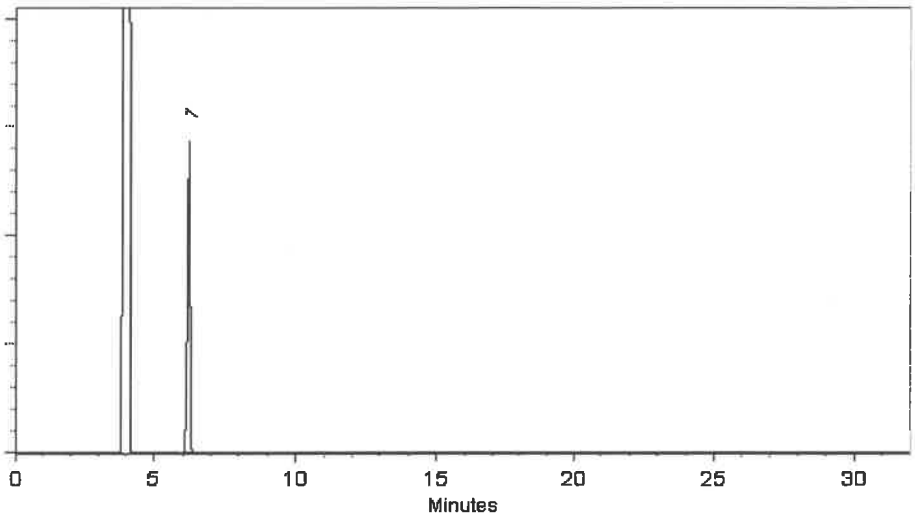
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

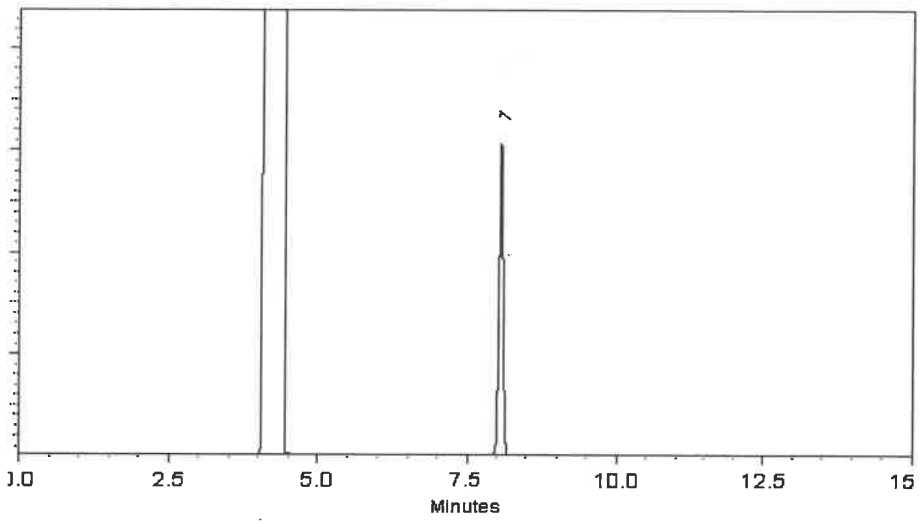
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

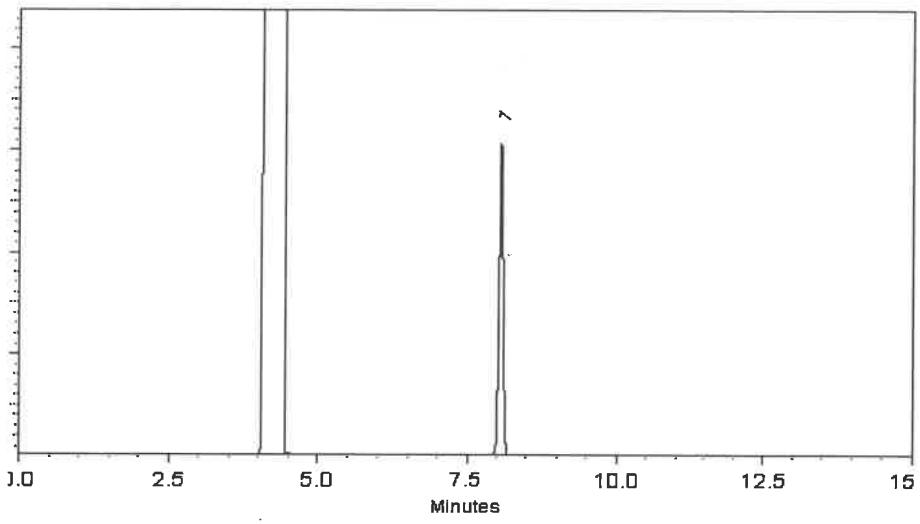
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

10 vial Rec 01/08/25

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

V14793 to 14802

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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-FL **Lot No.:** A0220563

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%	8,060.0 µg/mL	+/- 278.5905

* 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.)

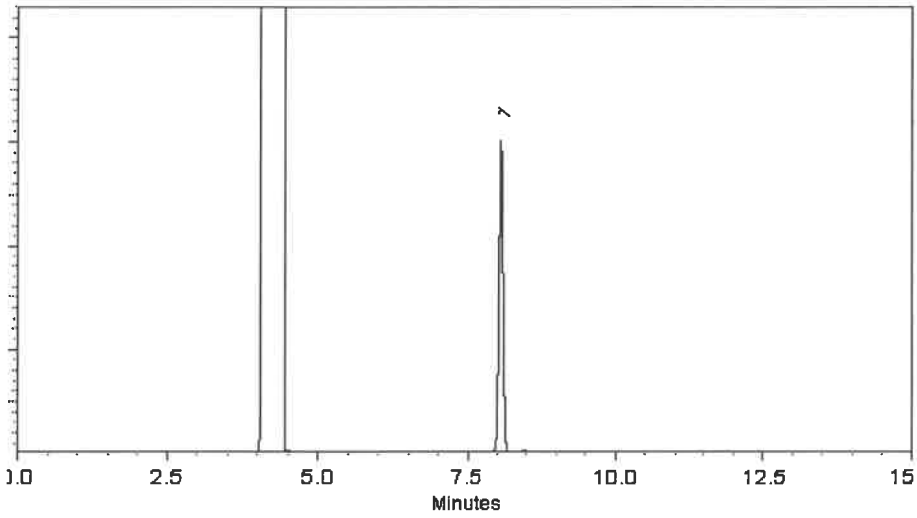
Inj. Temp:
200°C

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.

Tom Suckar - Mix Technician

Date Mixed: 30-Dec-2024 **Balance Serial #** B345965662

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

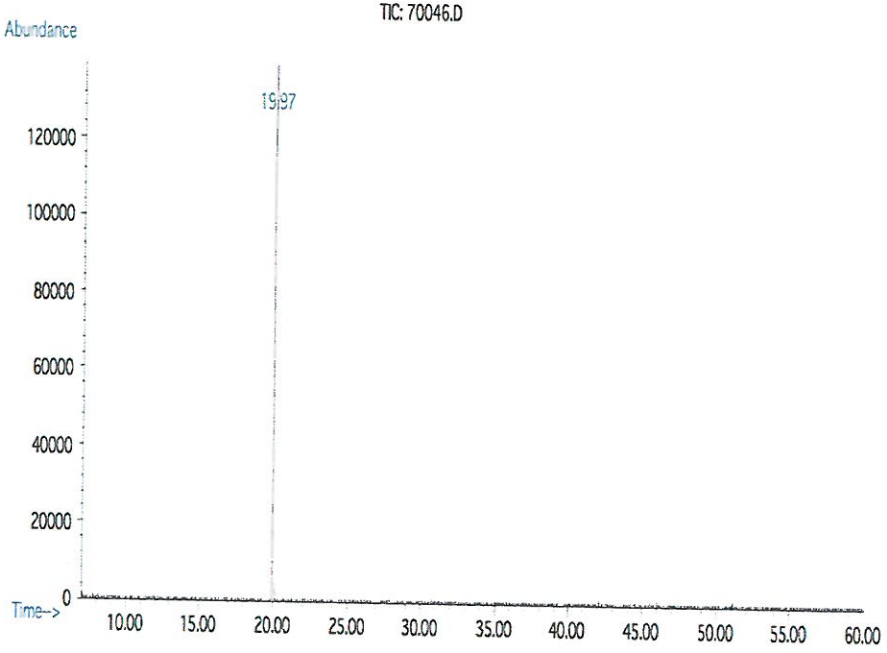
Weight(s) shown below were combined and diluted to (mL): 25.0

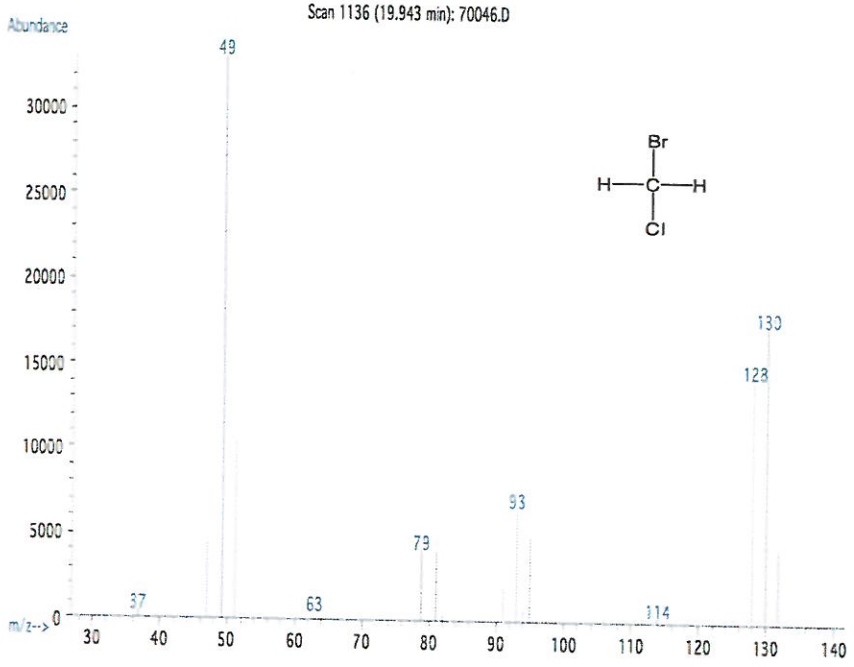
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Gabriel Helland		070122
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		070122
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. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 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).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 05/19/25

CERTIFIED REFERENCE MATERIAL

1o vial

Certificate of Analysis

chromatographic plus

V14971 to V14980

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0220531

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 : 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	Methyl acetate	79-20-9	SHBR1889	99%	2,018.7 µg/mL	+/- 69.7744
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,014.7 µg/mL	+/- 69.6361
3	Ethyl acetate	141-78-6	SHBR4534	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,010.7 µg/mL	+/- 69.4979
5	Propyl acetate	109-60-4	P8XLN	99%	2,017.3 µg/mL	+/- 69.7283
6	Butyl acetate	123-86-4	SHBR2024	99%	2,010.7 µg/mL	+/- 69.4979
7	Amyl acetate	628-63-7	BCBT7442	99%	2,017.3 µg/mL	+/- 69.7283

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 07/17/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
~~V15051~~ V15052
V15054

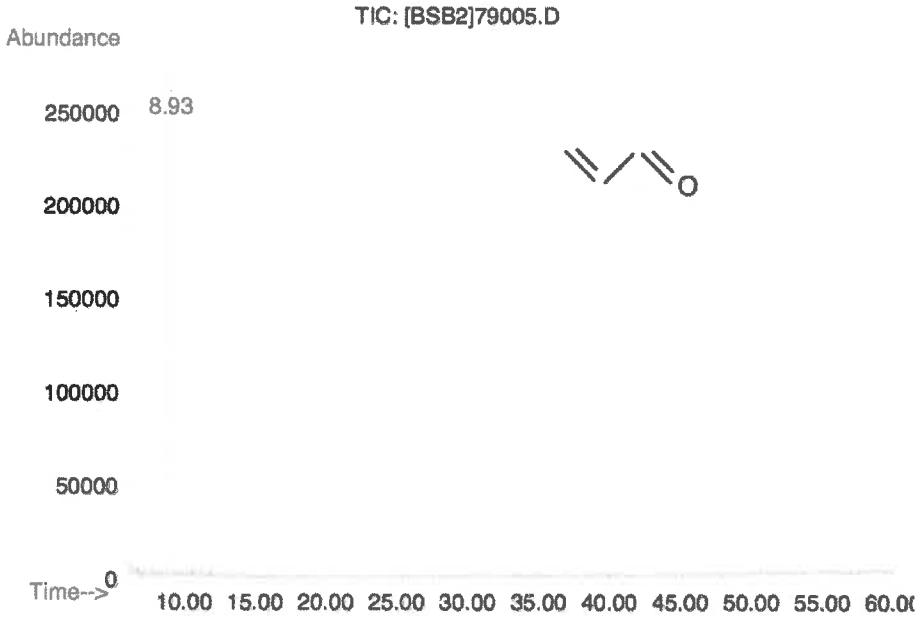
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

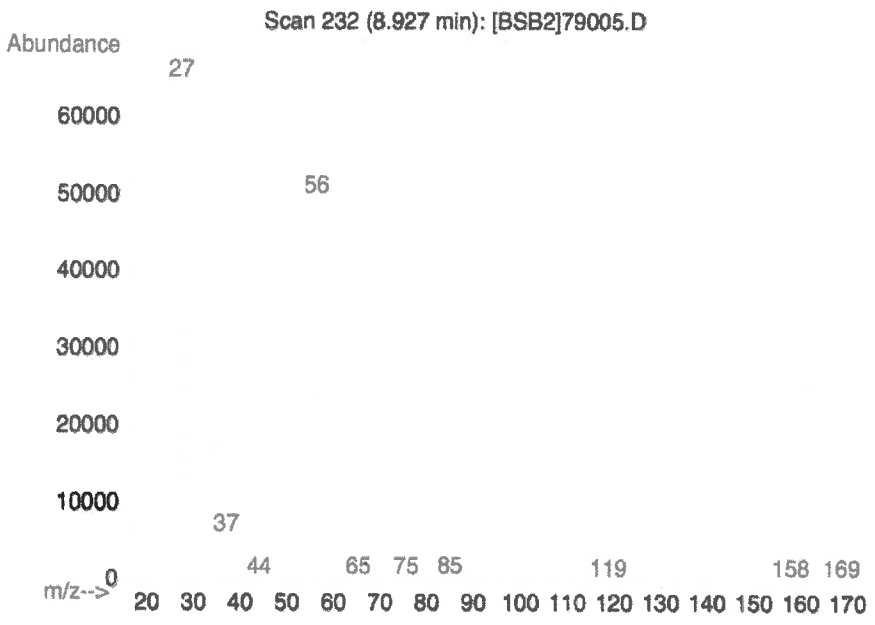
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 07/17/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
~~V15051~~ V15052
V15054

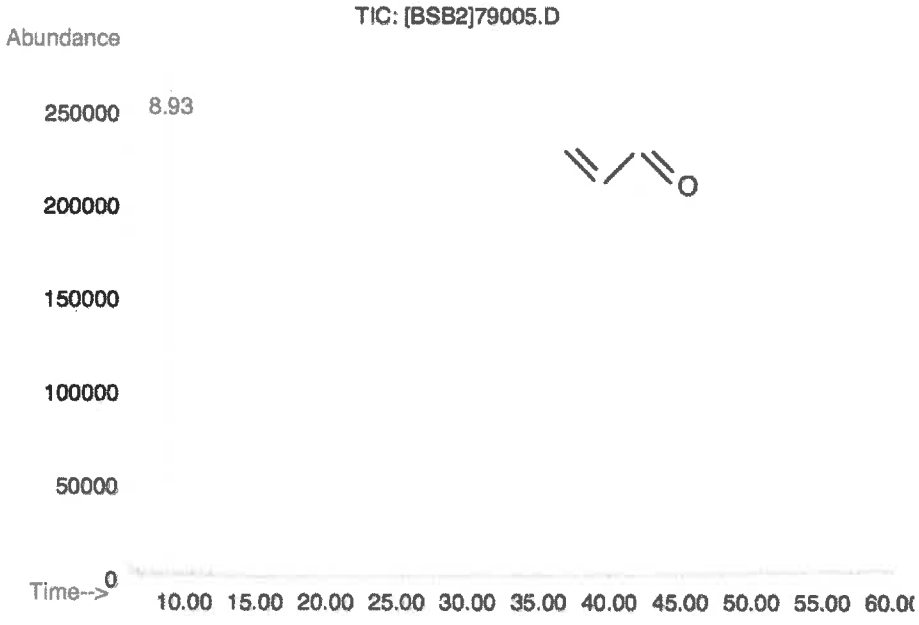
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

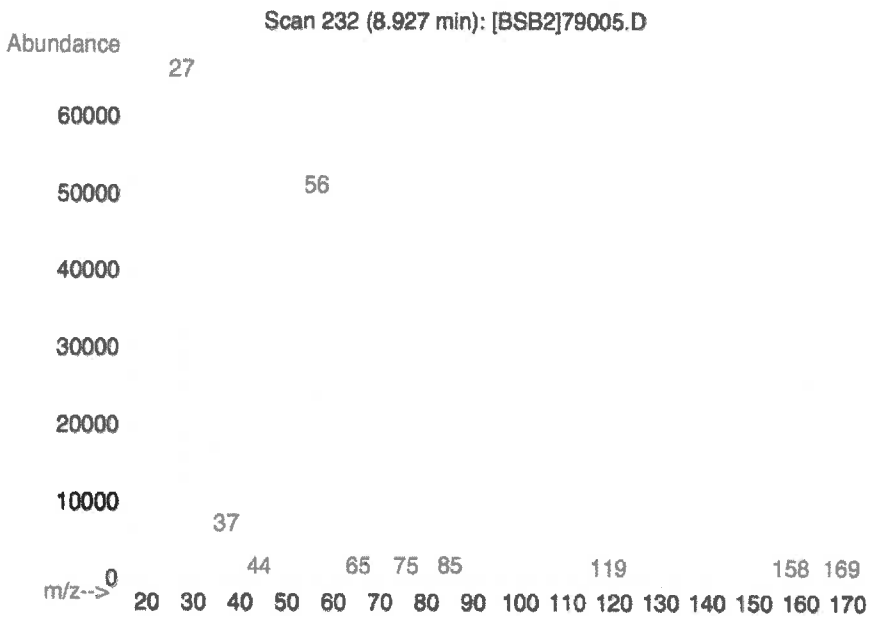
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 07/17/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
~~V15051~~ V15052
V15054

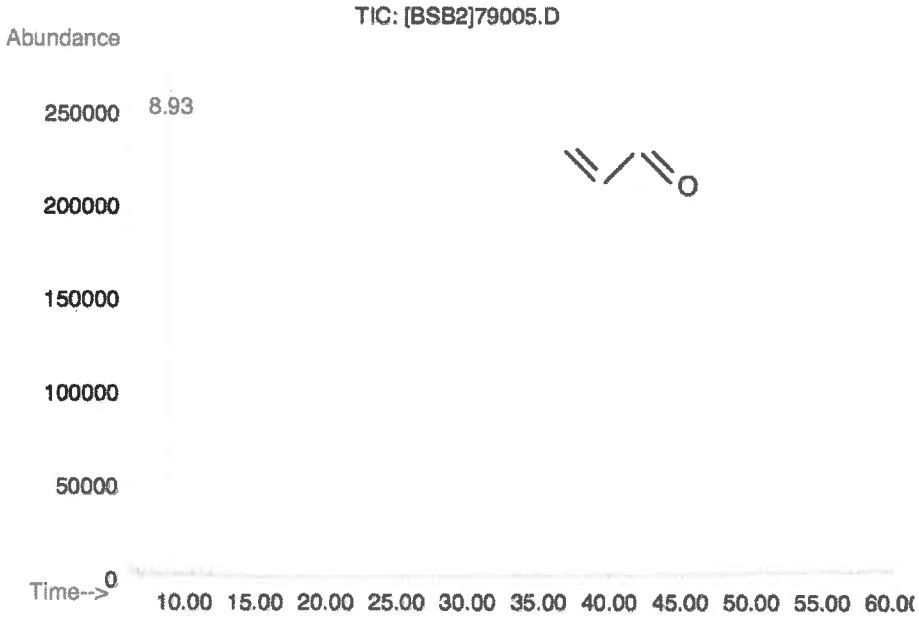
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

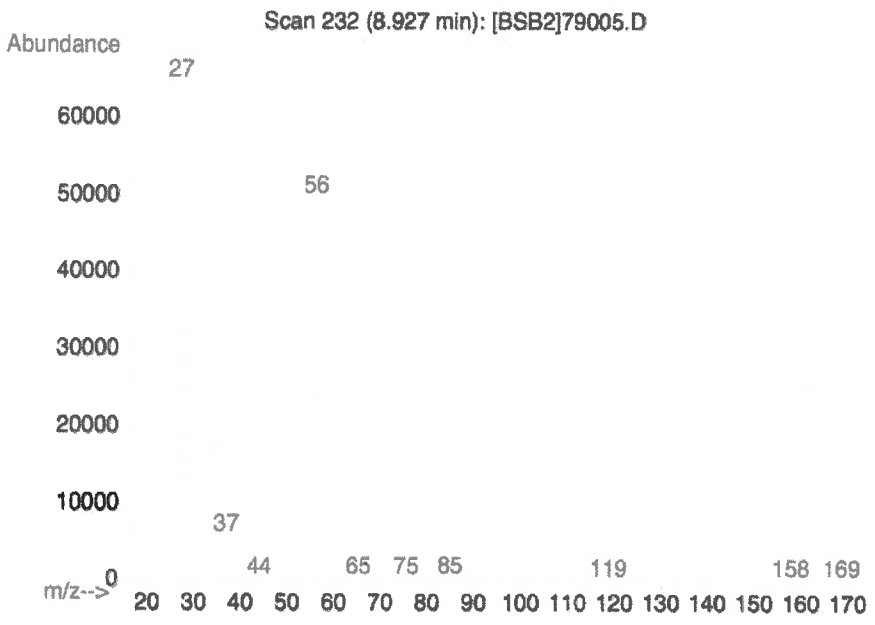
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

2 vials Rec 07117125

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071525
Description: Acrolein

Expiration Date: 081525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Water	041725Q

V15055
V15056

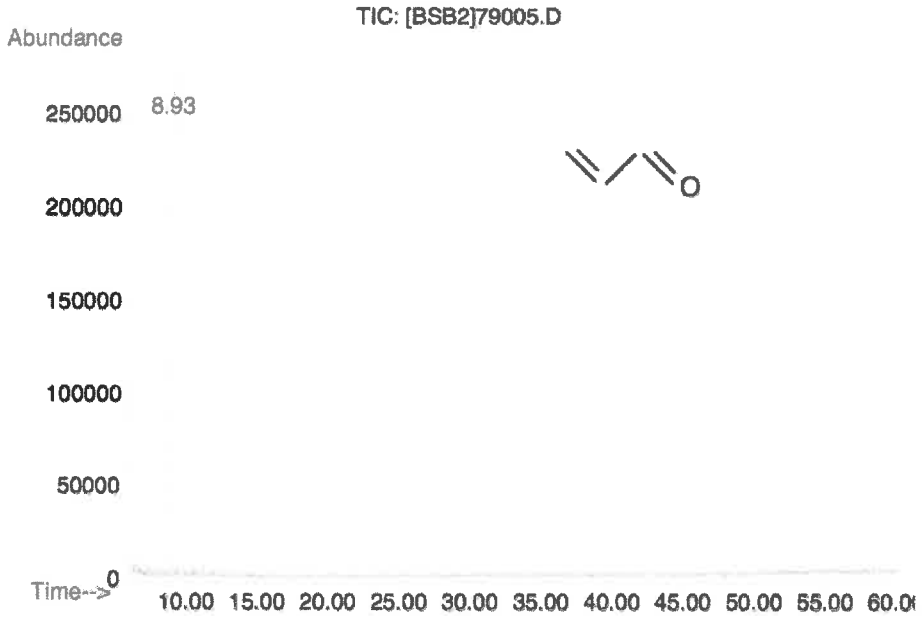
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

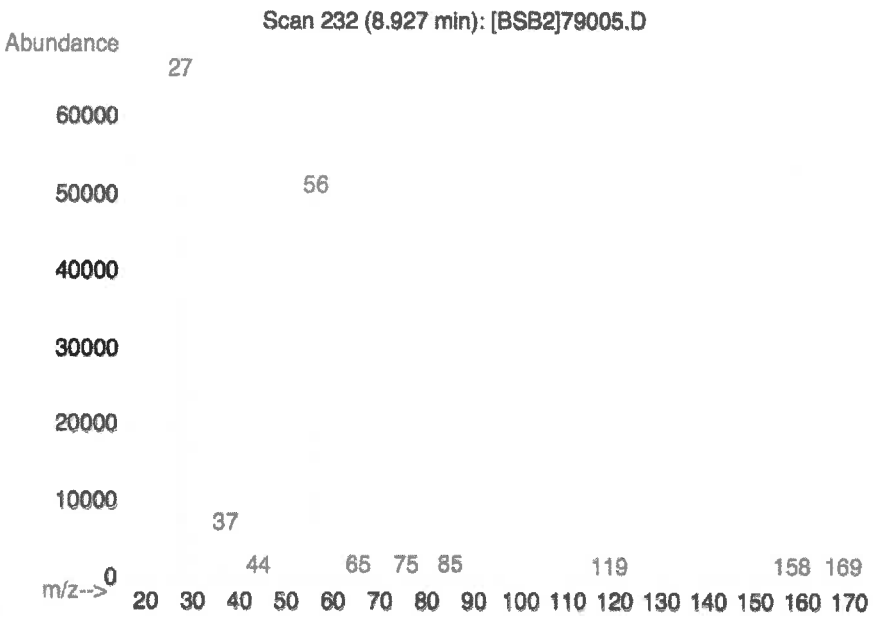
Justin Dippold 071525
Formulated By: Justin Dippold DATE

Pedro Rentas 071525
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	103755R02H	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

2 vials Rec 07117125

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071525
Description: Acrolein

Expiration Date: 081525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Water	041725Q

V15055
V15056

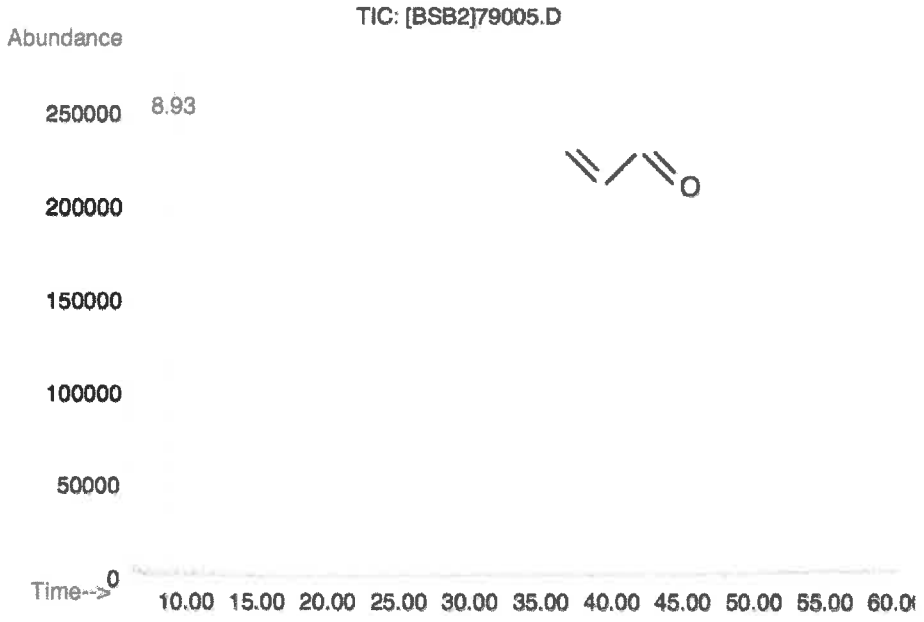
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

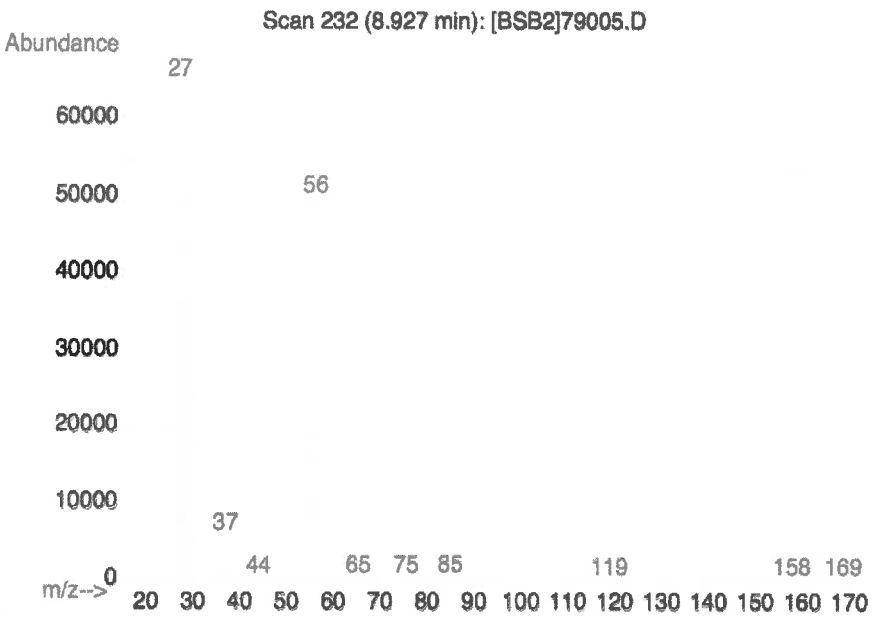
Justin Dippold 071525
Formulated By: Justin Dippold DATE

Pedro Rentas 071525
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	103755R02H	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

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

Preservation Log

BalanceID: VOA-SC-2

Review By: Amit

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)= Total Wt-Tare Wt	Vial A Time	Vial B Weight(g)= Total Wt-Tare Wt	Vial B Time	Vial C Weight(g) Preserve with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q2639-01	39.62-35.00=4.62	10:01	39.52-35.19=4.33	10:02	37.33-33.09=4.24	10:03	V14921	07/18/2025	TERRACORE SAMPLE 8260
2	Q2639-03	39.66-35.32=4.34	10:03	39.20-35.04=4.16	10:04	38.12-33.96=4.16	10:05	V14921	07/18/2025	
3	Q2639-05	39.36-34.99=4.37	10:06	39.24-34.89=4.35	10:07	37.71-33.35=4.36	10:08	V14921	07/18/2025	
4	Q2639-07	39.78-35.29=4.49	10:08	39.53-35.29=4.24	10:09	38.17-33.91=4.26	10:10	V14921	07/18/2025	
5	Q2639-09	39.62-35.06=4.56	10:11	39.73-35.20=4.53	10:12	37.90-33.25=4.65	10:13	V14921	07/18/2025	
6	Q2639-11	37.40-32.79=4.61	10:14	37.50-32.79=4.71	10:15	34.31-29.89=4.42	10:16	V14921	07/18/2025	
7	Q2639-13	37.74-32.69=5.05	10:17	37.40-32.49=4.91	10:18	34.85-29.95=4.9	10:19	V14921	07/18/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

SHIPPING DOCUMENTS

Q 2639

Chemtech

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Nobis Group
Address:	55 Technology Dr Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	A. Brittingham

Requested Turnaround Time
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020
	OU4-TS-38-071725	7/17/25	11:40	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-39-071725	7/17/25	11:50	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-40-071725	7/17/25	12:00	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-41-071725	7/17/25	12:10	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-42-071725	7/17/25	12:20	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-43-071725	7/17/25	12:30	G	SO		3	2					X	X	X	X	X	X	X	X	X
	OU4-TS-44-071725	7/17/25	12:40	G	SO		3	2					X	X	X	X	X	X	X	X	X

[2] Preservation Code

Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 7/17/25 1500
Received by: (signature)	Date/Time: 7/18/25 0855
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
5.1°C - 4.7°C

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2639 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 7/18/2025 10:22:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 7/18/2025 9:55:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2639-01	OU4-TS-38-071725	Solid	07/17/2025	11:40					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-03	OU4-TS-39-071725	Solid	07/17/2025	11:50					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-05	OU4-TS-40-071725	Solid	07/17/2025	12:00					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-07	OU4-TS-41-071725	Solid	07/17/2025	12:10					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-09	OU4-TS-42-071725	Solid	07/17/2025	12:20					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-11	OU4-TS-43-071725	Solid	07/17/2025	12:30					
					VOCMS Group3		8260D		10 Bus. Days
Q2639-13	OU4-TS-44-071725	Solid	07/17/2025	12:40					
					VOCMS Group3		8260D		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2639 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 7/18/2025 10:22:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 7/18/2025 9:55:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : AV
Date / Time : 7/18/25 1100

Received By : Sam
Date / Time : 07/18/25 11:00

Rq #6 of 22

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Jul 19 04:05:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	535707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	862980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	692947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	302335	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	25286	4.663	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 9.320%#			
35) Dibromofluoromethane	7.634	113	26103	4.768	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 9.540%#			
50) Toluene-d8	10.103	98	103295	4.758	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 9.520%#			
62) 4-Bromofluorobenzene	12.401	95	35295	5.165	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 10.320%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	26273	5.776	ug/l	97
3) Chloromethane	2.068	50	42286	5.467	ug/l	98
4) Vinyl Chloride	2.202	62	50232	5.126	ug/l	99
5) Bromomethane	2.598	94	37924	5.362	ug/l	94
6) Chloroethane	2.732	64	33229	5.077	ug/l	99
7) Trichlorofluoromethane	3.055	101	60508	5.319	ug/l	97
8) Diethyl Ether	3.452	74	15984	5.369	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.811	101	32487	5.437	ug/l	97
10) Methyl Iodide	4.013	142	24927	4.016	ug/l	98
11) Tert butyl alcohol	4.848	59	7260	22.136	ug/l #	73
12) 1,1-Dichloroethene	3.787	96	30134	5.294	ug/l	91
13) Acrolein	3.647	56	5246	34.039	ug/l #	57
14) Allyl chloride	4.378	41	43390	5.003	ug/l	98
15) Acrylonitrile	5.055	53	28037	24.863	ug/l	97
16) Acetone	3.866	43	30383	30.907	ug/l	96
17) Carbon Disulfide	4.104	76	90620	5.253	ug/l	96
18) Methyl Acetate	4.391	43	13210	3.969	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	63167	4.626	ug/l	97
20) Methylene Chloride	4.616	84	79161	3.739	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	31968	5.045	ug/l	99
22) Diisopropyl ether	6.024	45	85560	4.650	ug/l	96
23) Vinyl Acetate	5.957	43	207469	22.380	ug/l	100
24) 1,1-Dichloroethane	5.909	63	56892	4.923	ug/l	97
25) 2-Butanone	6.896	43	34740	24.634	ug/l	90
26) 2,2-Dichloropropane	6.878	77	52318	5.166	ug/l	97
27) cis-1,2-Dichloroethene	6.890	96	35196	4.820	ug/l	96
28) Bromochloromethane	7.244	49	21127	4.714	ug/l	98
29) Tetrahydrofuran	7.256	42	19429	21.760	ug/l	98
30) Chloroform	7.420	83	57601	4.941	ug/l	96
31) Cyclohexane	7.701	56	62949	5.830	ug/l #	81
32) 1,1,1-Trichloroethane	7.616	97	53871	5.093	ug/l	99
36) 1,1-Dichloropropene	7.835	75	43575	5.053	ug/l	98
37) Ethyl Acetate	6.988	43	15073	4.707	ug/l	98
38) Carbon Tetrachloride	7.817	117	47654	5.087	ug/l	97
39) Methylcyclohexane	9.109	83	56680	5.079	ug/l	99
40) Benzene	8.079	78	128094	4.934	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Jul 19 04:05:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	6844	3.923	ug/l	#	86
42) 1,2-Dichloroethane	8.158	62	31142	4.821	ug/l		98
43) Isopropyl Acetate	8.201	43	27300	4.292	ug/l	#	85
44) Trichloroethene	8.865	130	34709	5.205	ug/l		92
45) 1,2-Dichloropropane	9.140	63	30343	5.005	ug/l		94
46) Dibromomethane	9.231	93	15218	4.856	ug/l		95
47) Bromodichloromethane	9.420	83	42002	4.849	ug/l		99
48) Methyl methacrylate	9.219	41	12765	4.156	ug/l		98
49) 1,4-Dioxane	9.225	88	2816	85.247	ug/l	#	89
51) 4-Methyl-2-Pentanone	9.999	43	64649	20.023	ug/l		99
52) Toluene	10.170	92	74665	4.626	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	33067	4.447	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	41220	4.599	ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	19458	4.724	ug/l		97
56) Ethyl methacrylate	10.438	69	20183	3.925	ug/l		99
57) 1,3-Dichloropropane	10.713	76	33346	4.686	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	46689	18.550	ug/l		100
59) 2-Hexanone	10.761	43	42954	20.239	ug/l		99
60) Dibromochloromethane	10.908	129	24530	4.548	ug/l		99
61) 1,2-Dibromoethane	11.011	107	17039	4.555	ug/l		100
64) Tetrachloroethene	10.645	164	38436	5.427	ug/l		94
65) Chlorobenzene	11.438	112	79744	4.877	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.511	131	27645	4.957	ug/l		99
67) Ethyl Benzene	11.517	91	138078	4.764	ug/l		96
68) m/p-Xylenes	11.627	106	104654	9.414	ug/l		97
69) o-Xylene	11.950	106	46850	4.541	ug/l		98
70) Styrene	11.962	104	73426	4.345	ug/l		99
71) Bromoform	12.127	173	12858	4.541	ug/l	#	99
73) Isopropylbenzene	12.249	105	126243	4.925	ug/l		99
74) N-amyl acetate	12.066	43	20632	4.269	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	16857	4.544	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	25279	6.710	ug/l	#	100
77) Bromobenzene	12.529	156	27477	4.942	ug/l		100
78) n-propylbenzene	12.590	91	150755	4.939	ug/l		100
79) 2-Chlorotoluene	12.676	91	85237	4.965	ug/l		99
80) 1,3,5-Trimethylbenzene	12.730	105	98096	4.852	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	6126	4.843	ug/l		98
82) 4-Chlorotoluene	12.773	91	85449	4.935	ug/l		99
83) tert-Butylbenzene	12.993	119	90600	4.961	ug/l		98
84) 1,2,4-Trimethylbenzene	13.041	105	95160	4.782	ug/l		99
85) sec-Butylbenzene	13.169	105	135535	4.953	ug/l		98
86) p-Isopropyltoluene	13.285	119	104828	4.717	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	56578	5.043	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	55584	5.121	ug/l		95
89) n-Butylbenzene	13.614	91	99472	4.850	ug/l		98
90) Hexachloroethane	13.877	117	24435	5.310	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	48036	5.076	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2548	4.626	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	23607	4.732	ug/l		99
94) Hexachlorobutadiene	15.023	225	17559	5.583	ug/l		98
95) Naphthalene	15.139	128	31085	3.885	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	18973	4.606	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Jul 19 04:05:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

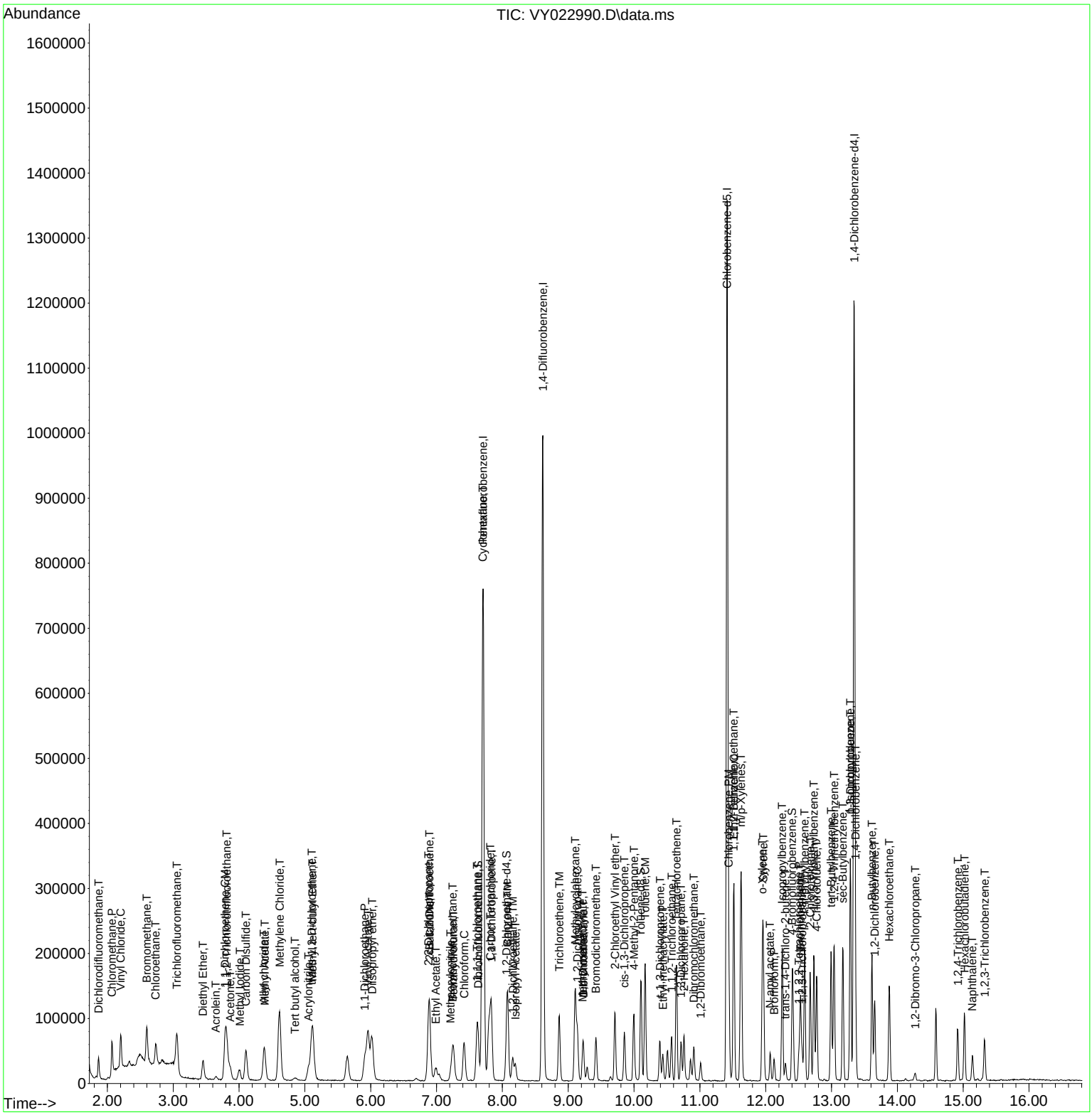
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

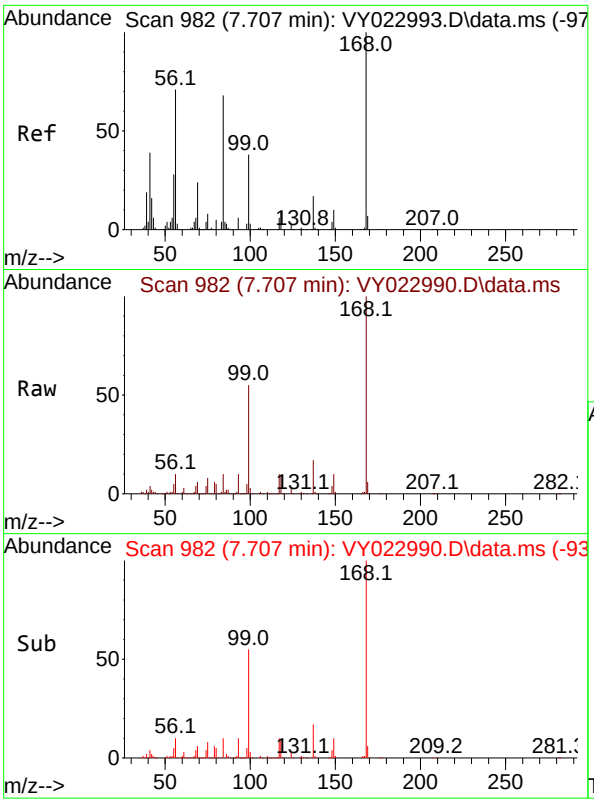
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022990.D
Acq On : 18 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: Jul 19 04:05:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



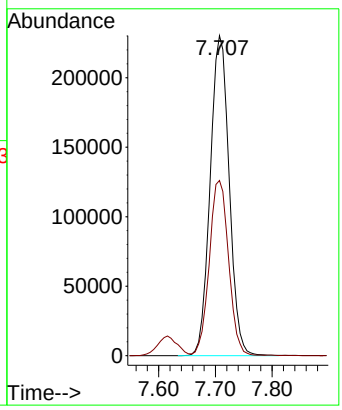


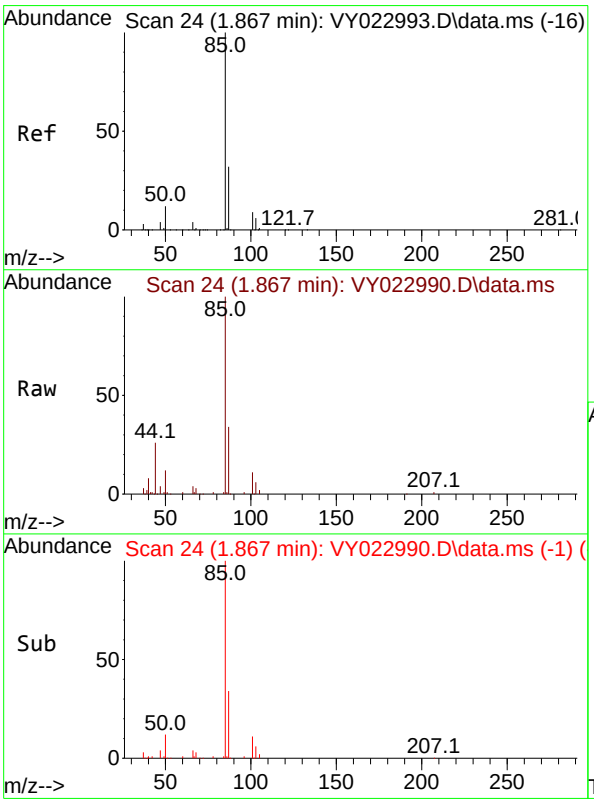
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 535707

Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.4	66.6

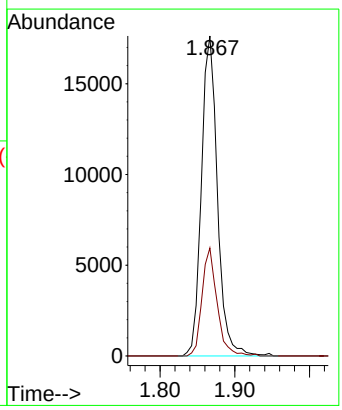


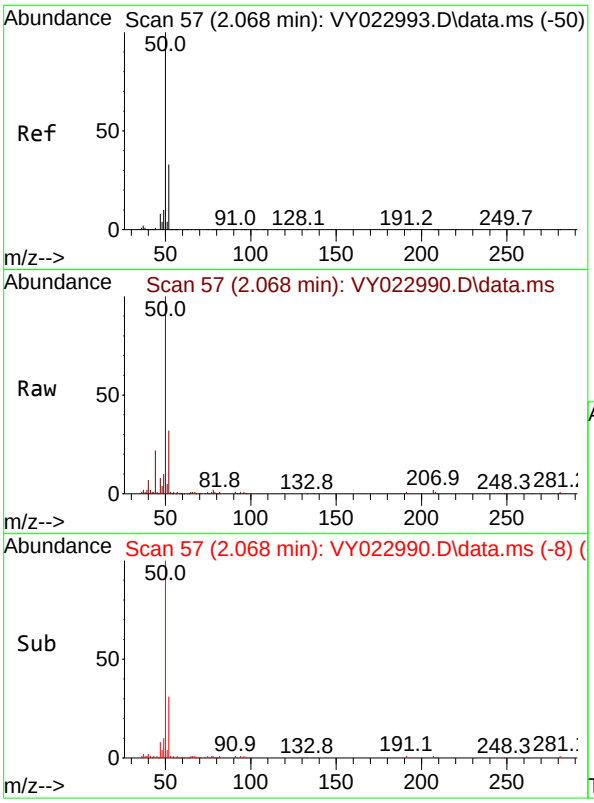


#2
Dichlorodifluoromethane
Concen: 5.776 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 85 Resp: 26273

Ion	Ratio	Lower	Upper
85	100		
87	33.8	16.0	47.9



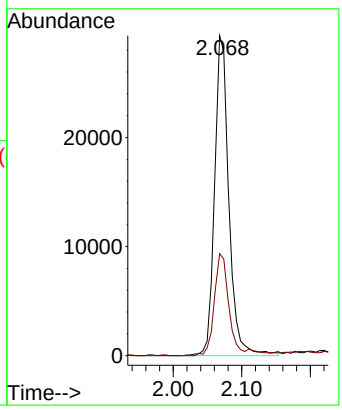


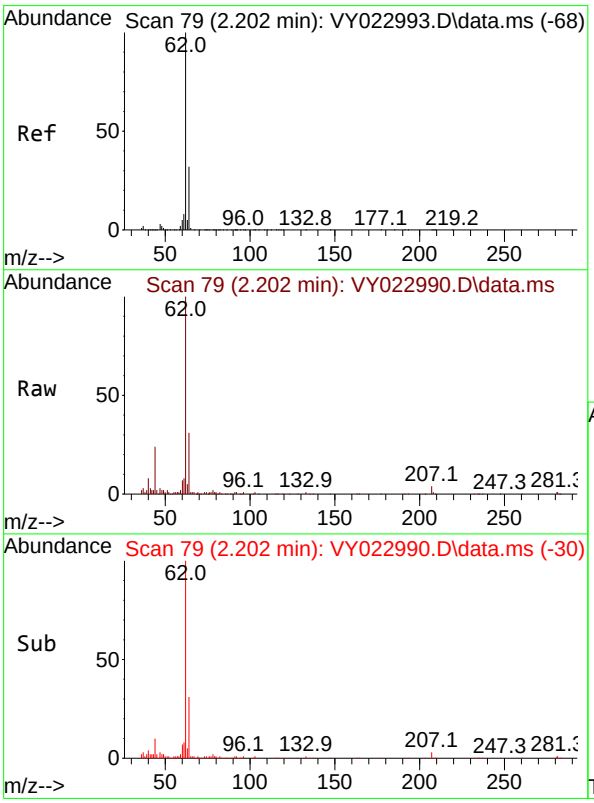
#3
Chloromethane
Concen: 5.467 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 42286

Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.6	39.8

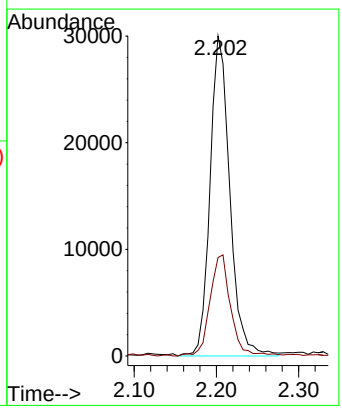


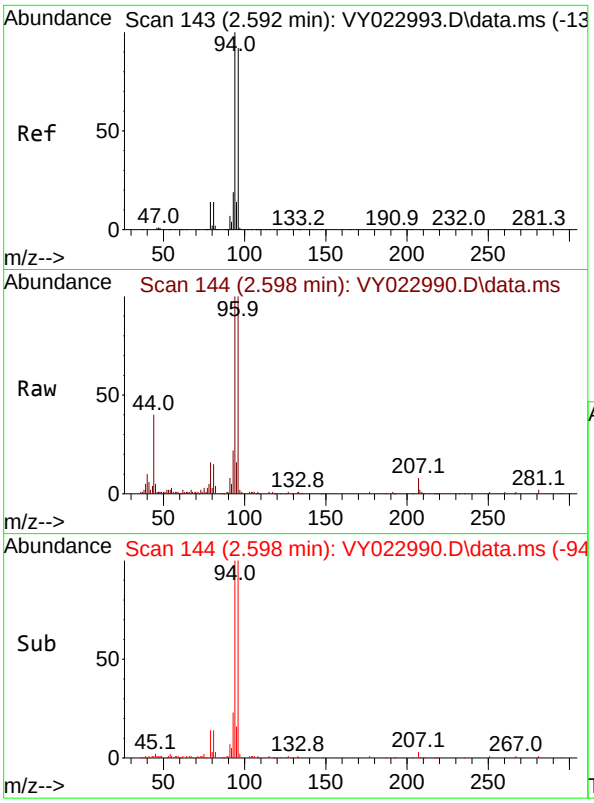


#4
Vinyl Chloride
Concen: 5.126 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 62 Resp: 50232

Ion	Ratio	Lower	Upper
62	100		
64	30.8	25.2	37.8



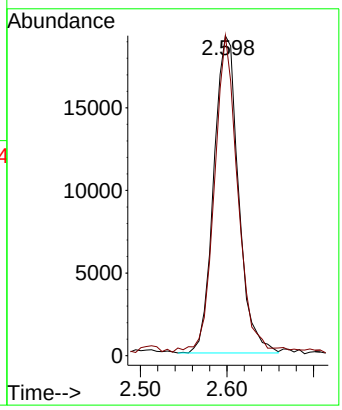


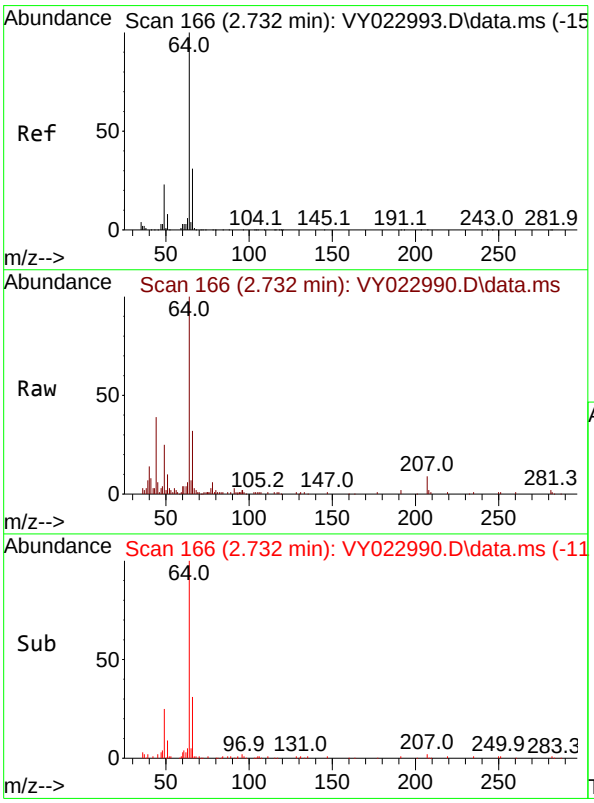
#5
Bromomethane
Concen: 5.362 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 37924

Ion	Ratio	Lower	Upper
94	100		
96	98.5	73.9	110.9

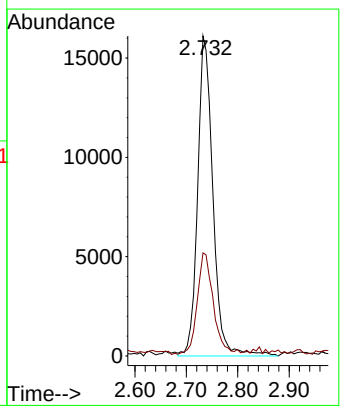


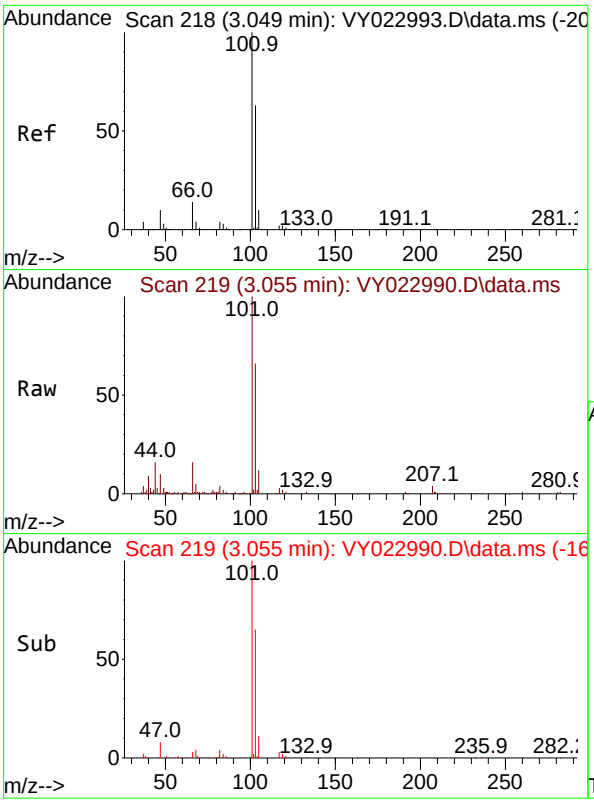


#6
Chloroethane
Concen: 5.077 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 64 Resp: 33229

Ion	Ratio	Lower	Upper
64	100		
66	31.6	24.9	37.3



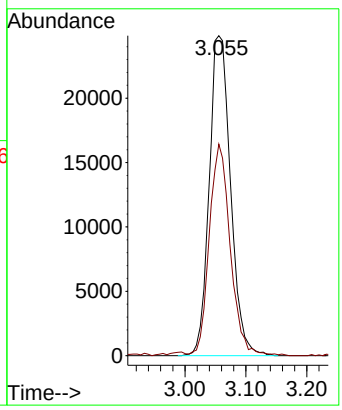


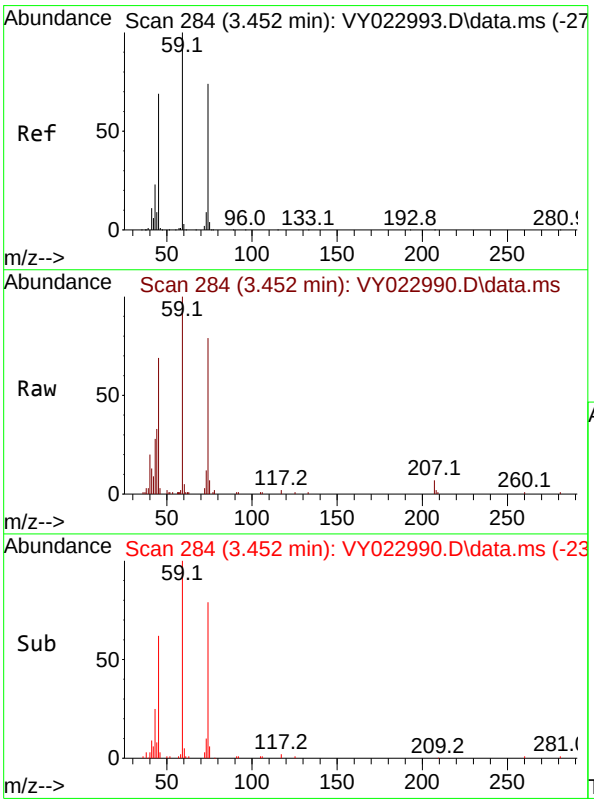
#7
Trichlorofluoromethane
Concen: 5.319 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 60508

Ion	Ratio	Lower	Upper
101	100		
103	65.8	50.7	76.1

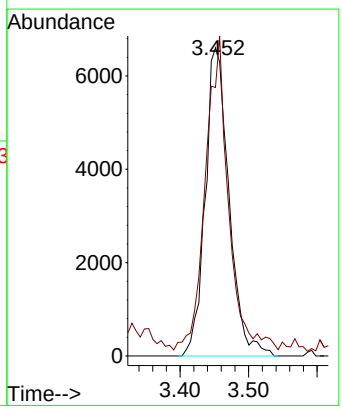


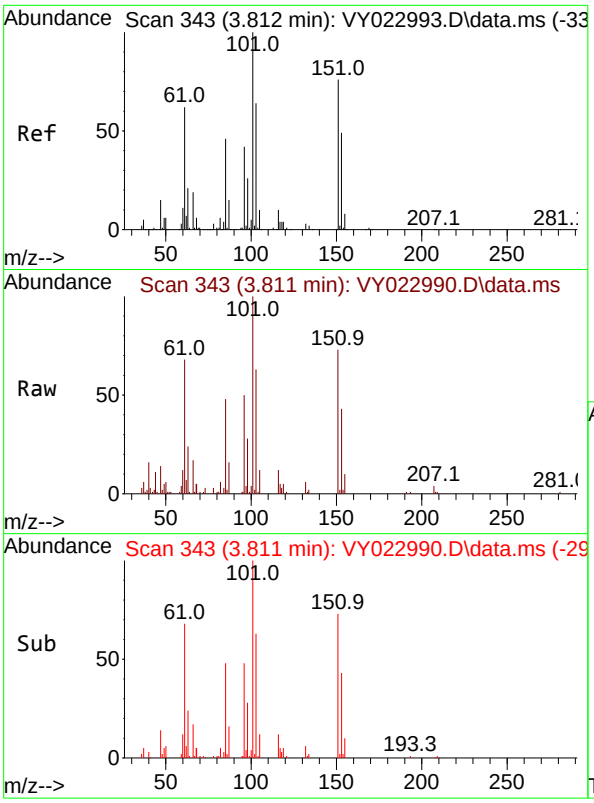


#8
Diethyl Ether
Concen: 5.369 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 74 Resp: 15984

Ion	Ratio	Lower	Upper
74	100		
45	97.9	45.1	135.2



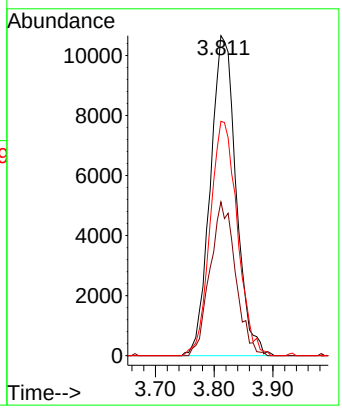


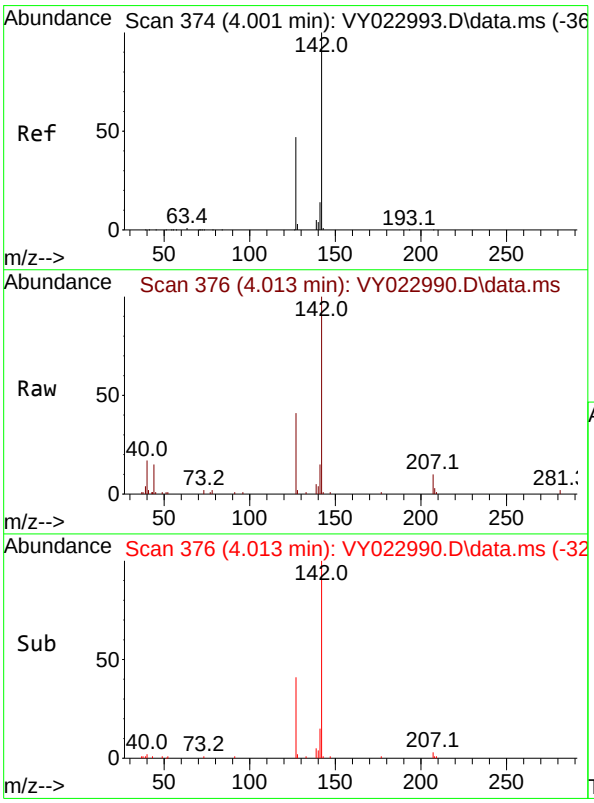
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.437 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 32487

Ion	Ratio	Lower	Upper
101	100		
85	47.6	37.2	55.8
151	77.2	59.7	89.5

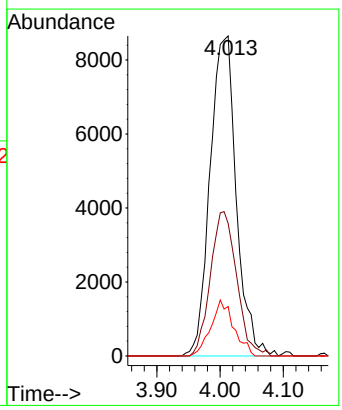


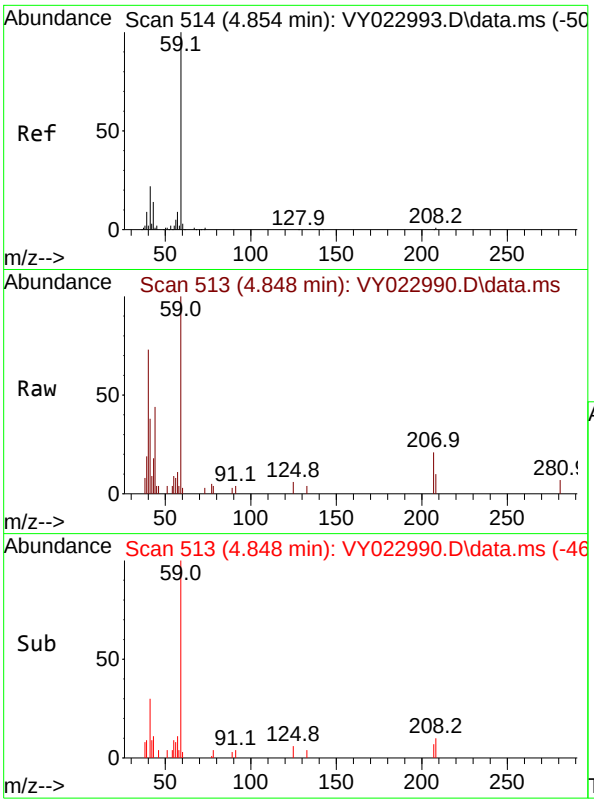


#10
Methyl Iodide
Concen: 4.016 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.012 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:142 Resp: 24927

Ion	Ratio	Lower	Upper
142	100		
127	45.1	37.0	55.6
141	15.3	11.4	17.2



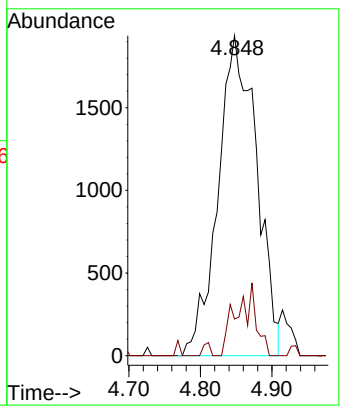


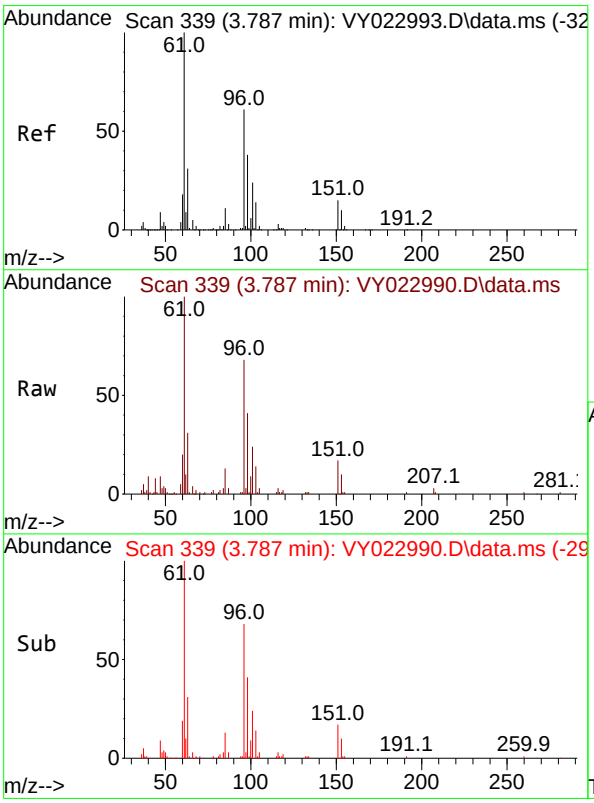
#11
Tert butyl alcohol
Concen: 22.136 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 7260

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

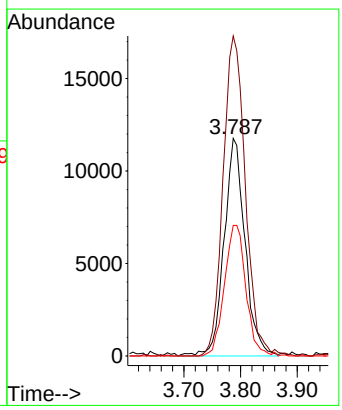


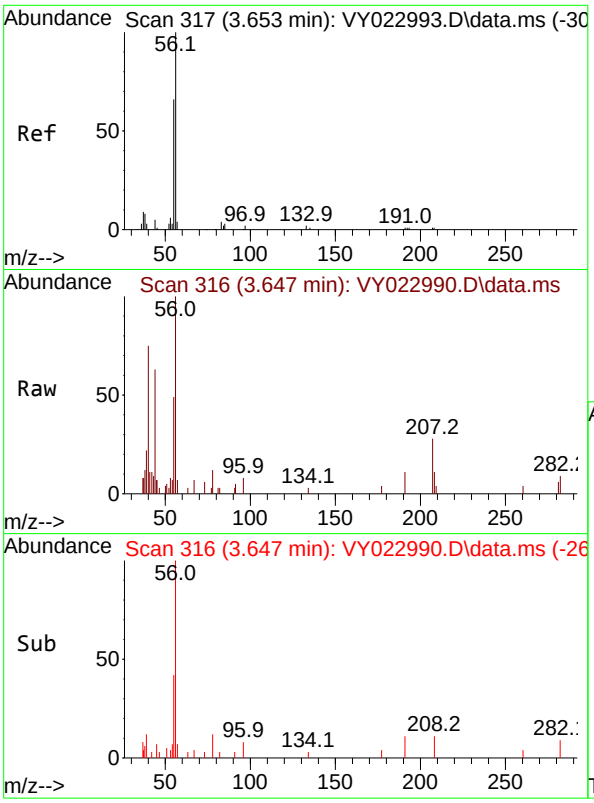


#12
1,1-Dichloroethene
Concen: 5.294 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 96 Resp: 30134

Ion	Ratio	Lower	Upper
96	100		
61	147.1	130.4	195.6
98	60.0	49.6	74.4



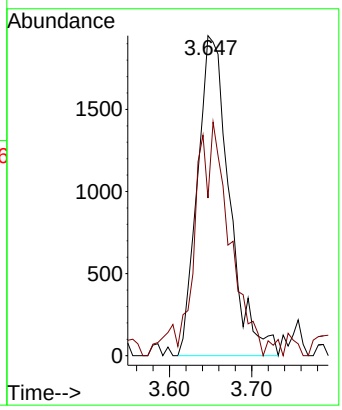


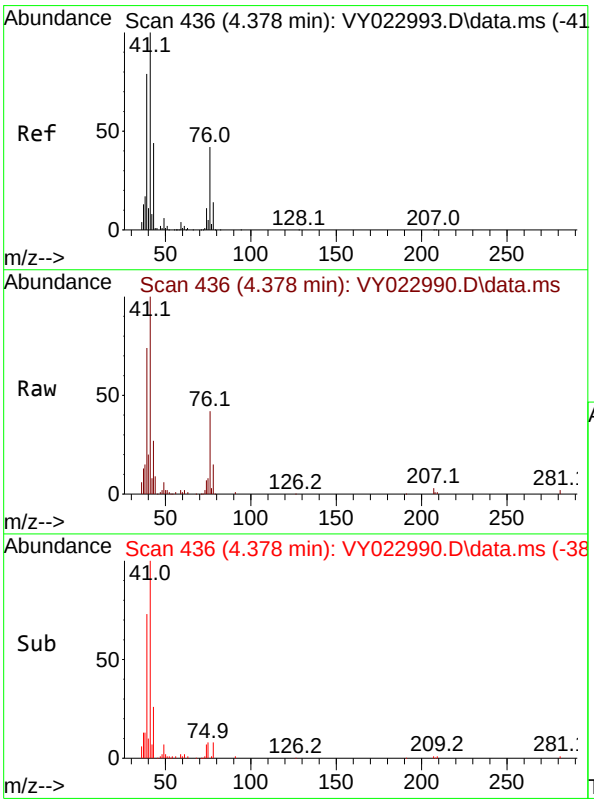
#13
Acrolein
Concen: 34.039 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 5246

Ion	Ratio	Lower	Upper
56	100		
55	36.0	57.8	86.6#

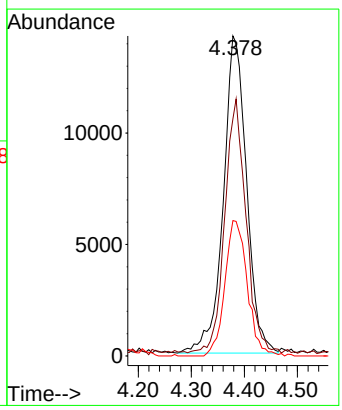


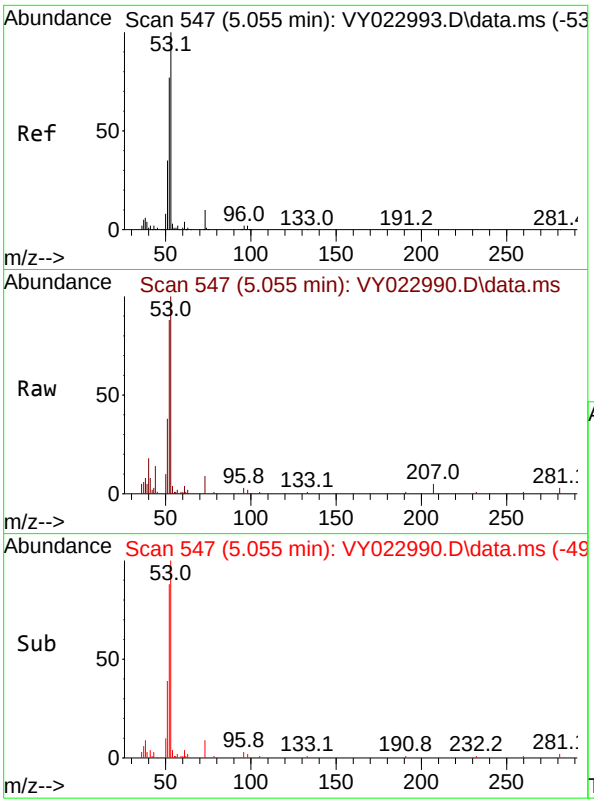


#14
Allyl chloride
Concen: 5.003 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 41 Resp: 43390

Ion	Ratio	Lower	Upper
41	100		
39	73.3	60.1	90.1
76	41.1	32.2	48.4



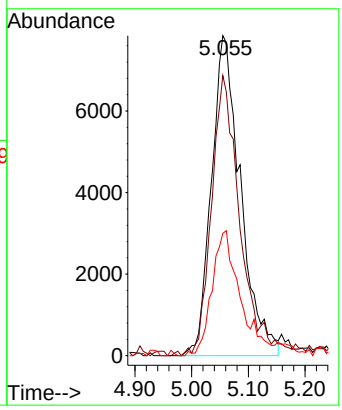


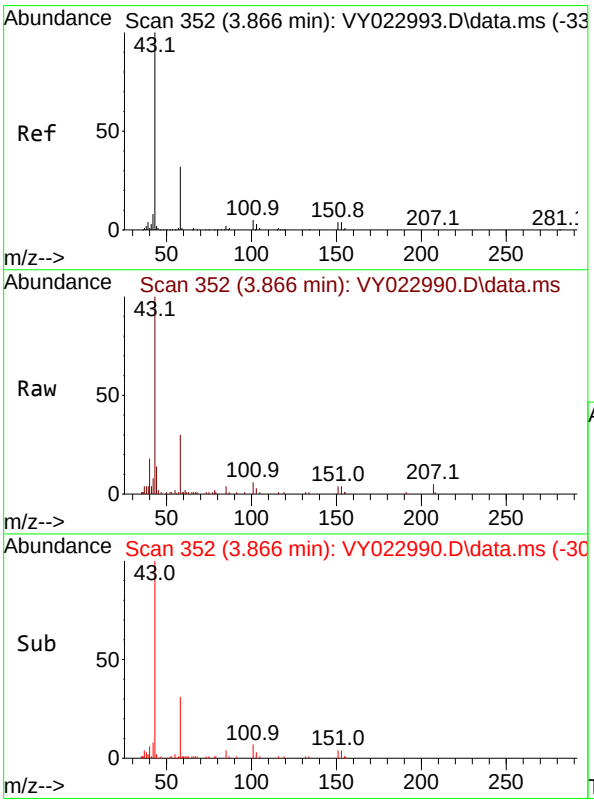
#15
Acrylonitrile
Concen: 24.863 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 28037

Ion	Ratio	Lower	Upper
53	100		
52	85.1	65.2	97.8
51	37.6	30.3	45.5

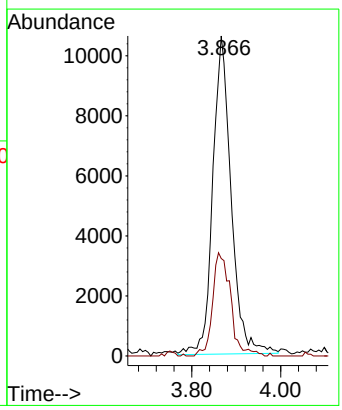


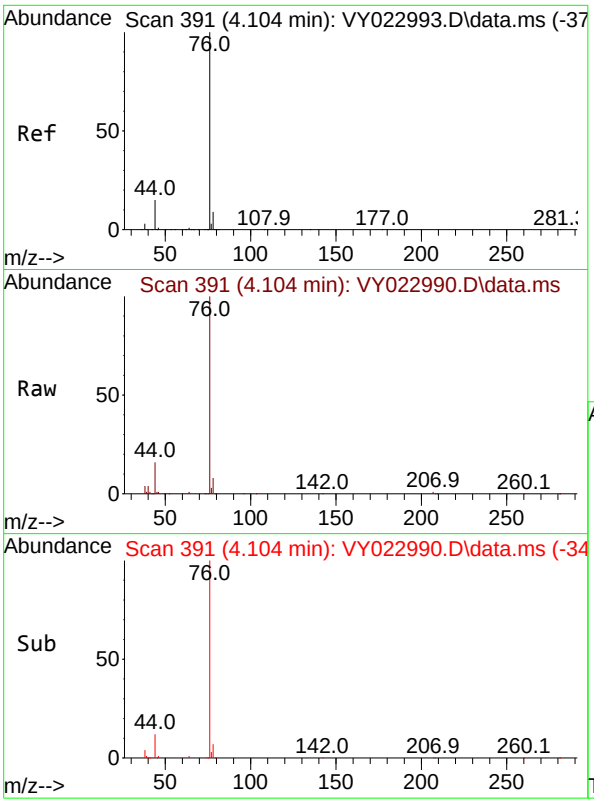


#16
Acetone
Concen: 30.907 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 30383

Ion	Ratio	Lower	Upper
43	100		
58	30.7	26.2	39.4



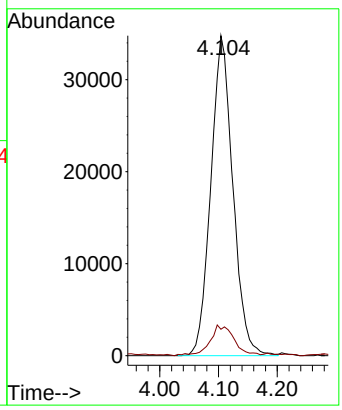


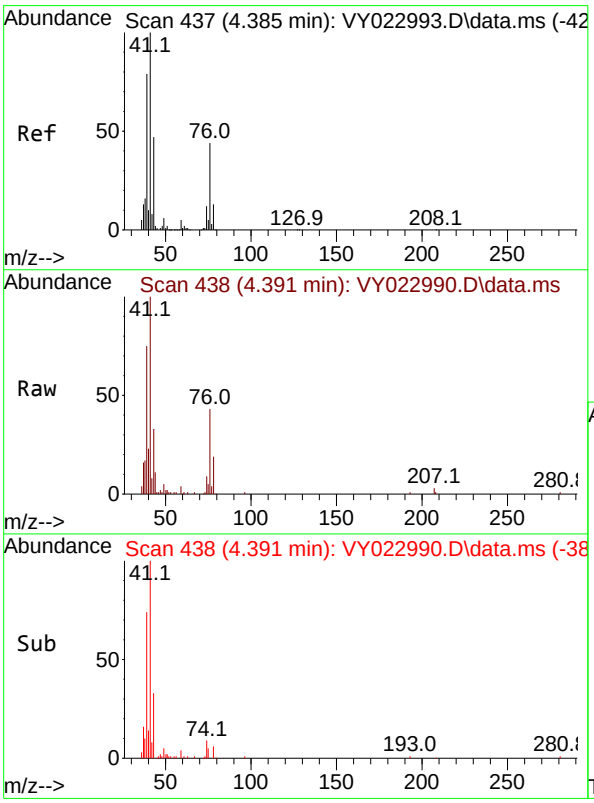
#17
Carbon Disulfide
Concen: 5.253 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 90620

Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.4	11.0

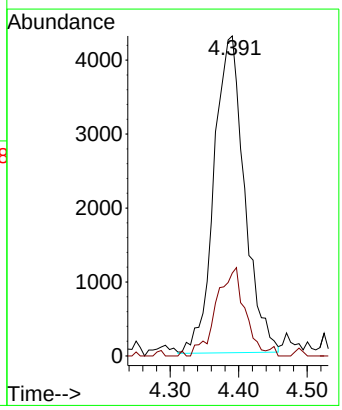


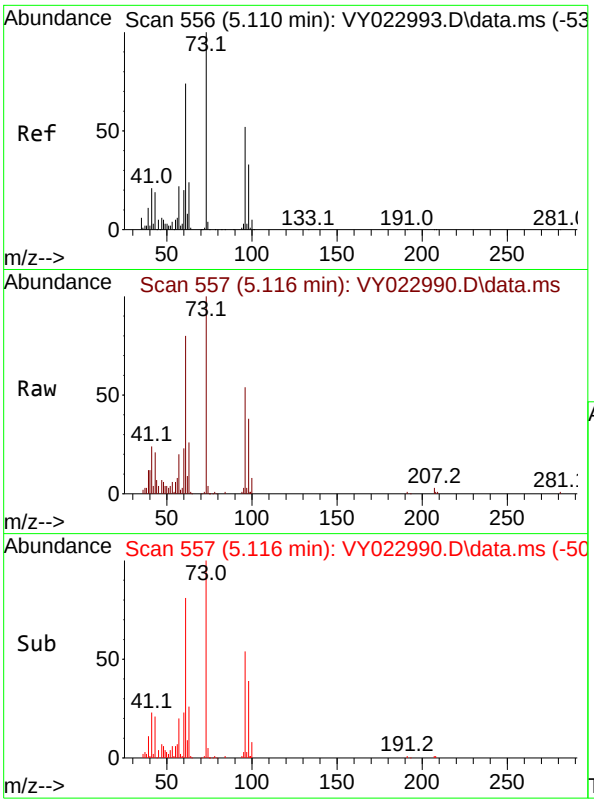


#18
Methyl Acetate
Concen: 3.969 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 13210

Ion	Ratio	Lower	Upper
43	100		
74	26.0	20.1	30.1



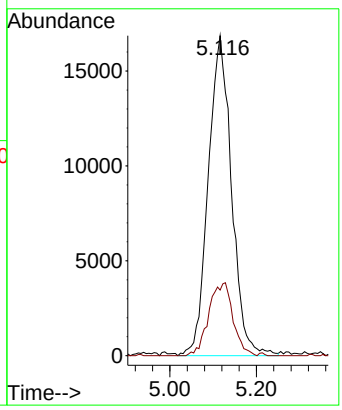


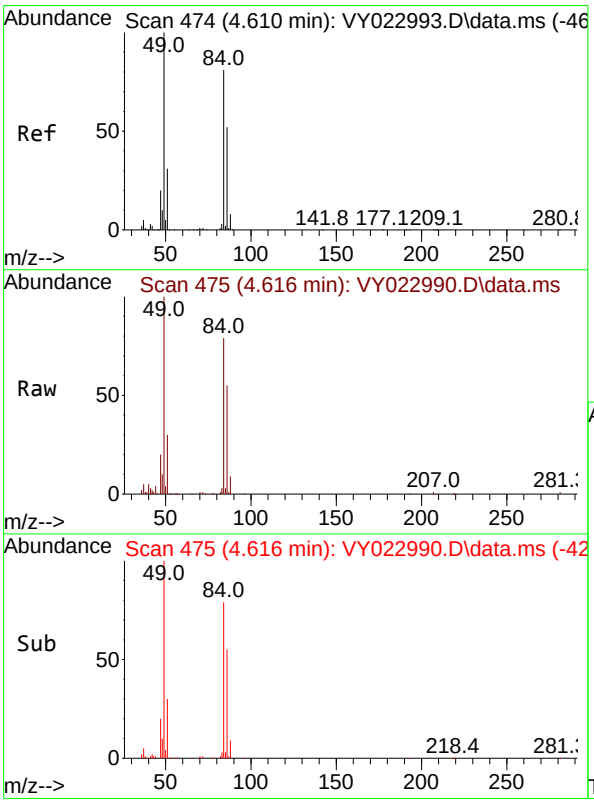
#19
Methyl tert-butyl Ether
Concen: 4.626 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 63167

Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.4	26.2

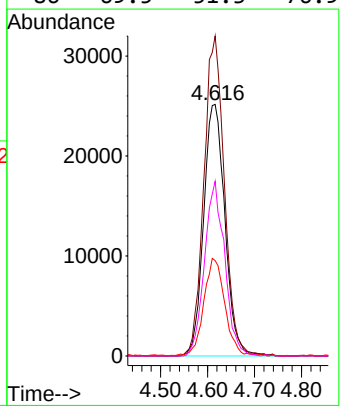


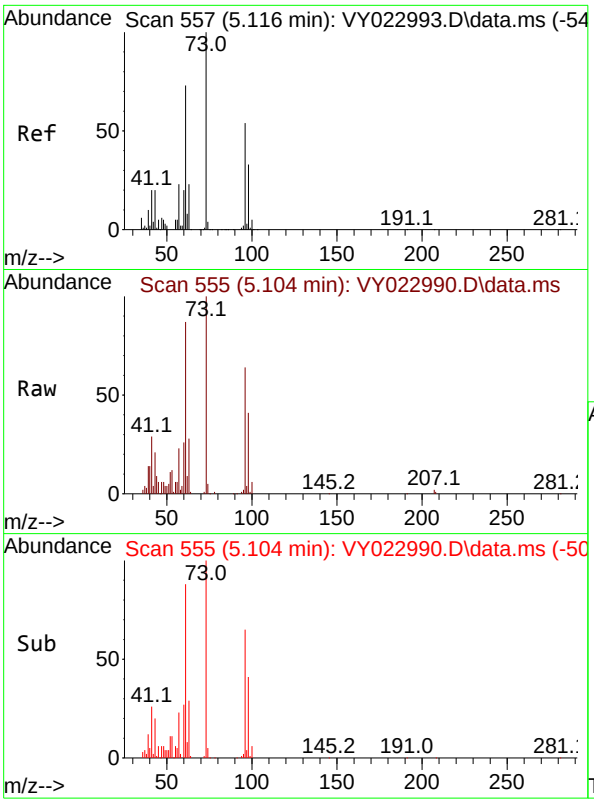


#20
Methylene Chloride
Concen: 3.739 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 84 Resp: 79161

Ion	Ratio	Lower	Upper
84	100		
49	127.3	98.2	147.4
51	37.9	30.5	45.7
86	69.5	51.3	76.9



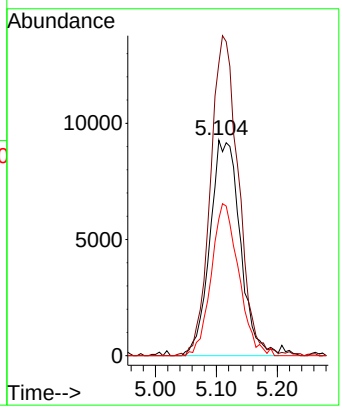


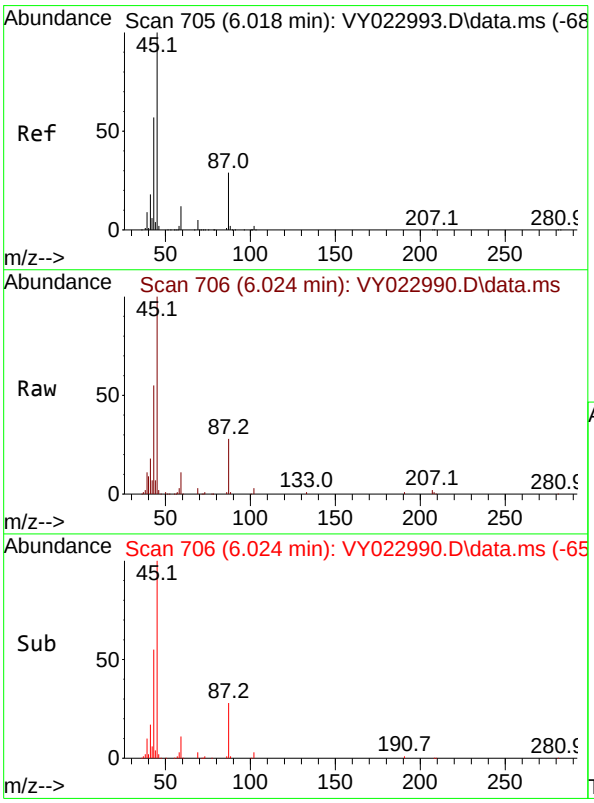
#21
trans-1,2-Dichloroethene
Concen: 5.045 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 31968

Ion	Ratio	Lower	Upper
96	100		
61	135.0	107.4	161.2
98	63.5	49.3	73.9

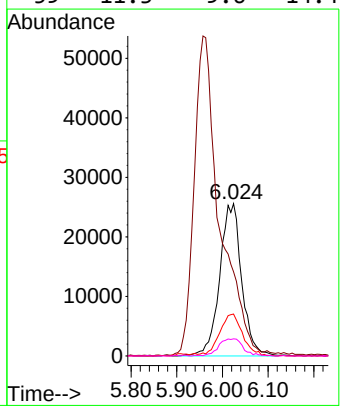


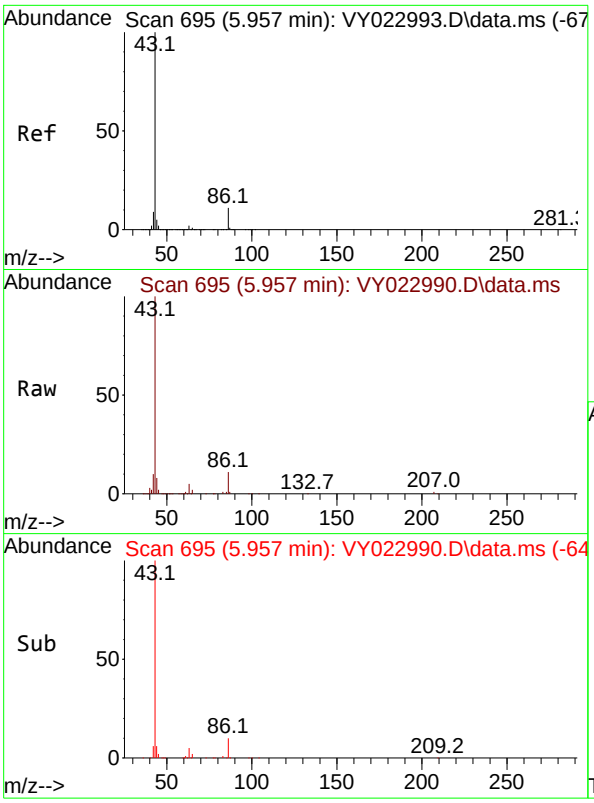


#22
Diisopropyl ether
Concen: 4.650 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 45 Resp: 85560

Ion	Ratio	Lower	Upper
45	100		
43	53.1	45.3	67.9
87	27.5	23.3	34.9
59	11.3	9.6	14.4



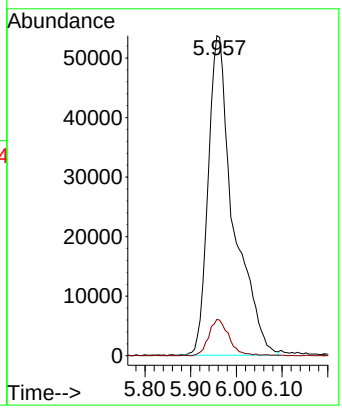


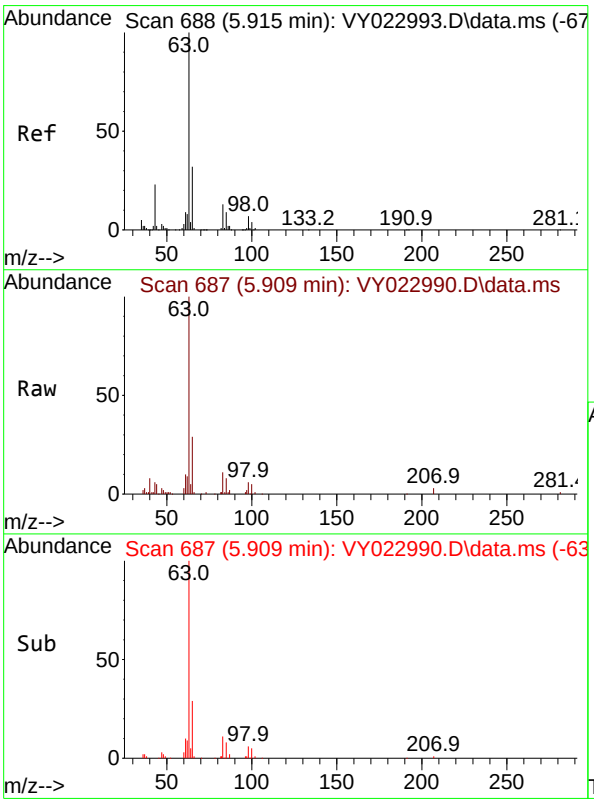
#23
Vinyl Acetate
Concen: 22.380 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 207469

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.0	13.4

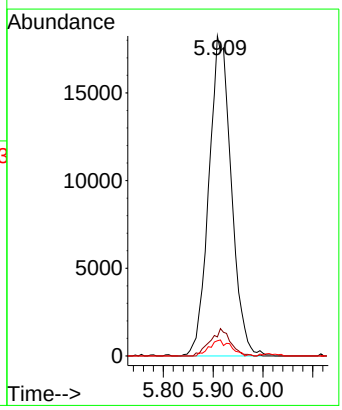


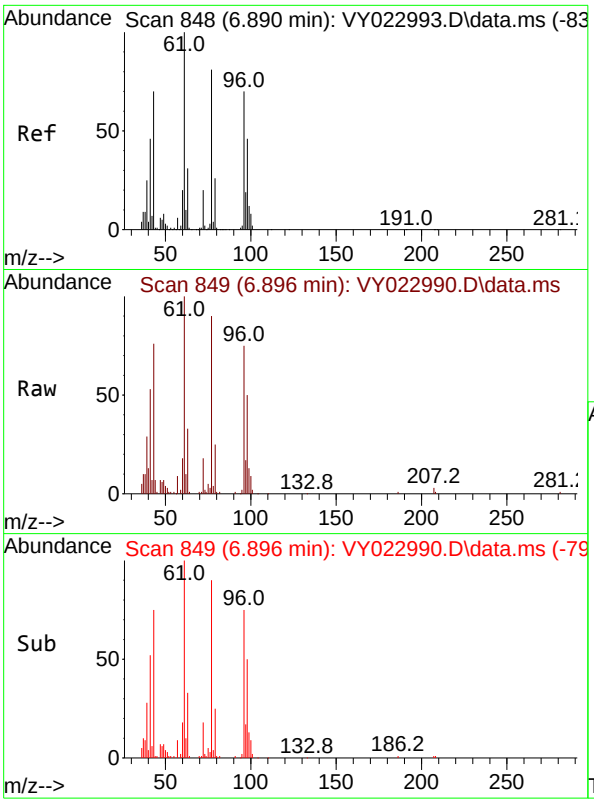


#24
1,1-Dichloroethane
Concen: 4.923 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 63 Resp: 56892

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.5	10.5
100	4.7	2.1	6.2



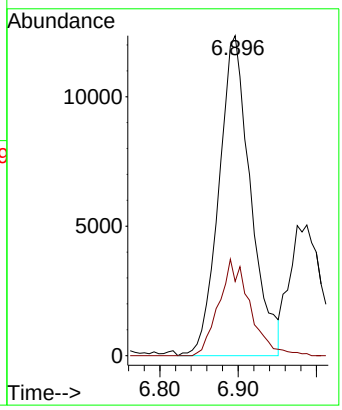


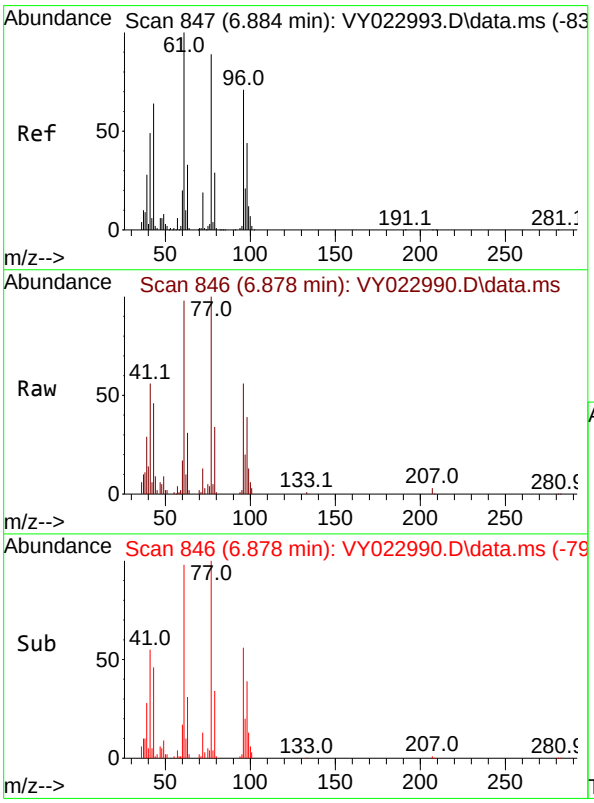
#25
2-Butanone
Concen: 24.634 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 34740

Ion	Ratio	Lower	Upper
43	100		
72	23.2	22.9	34.3

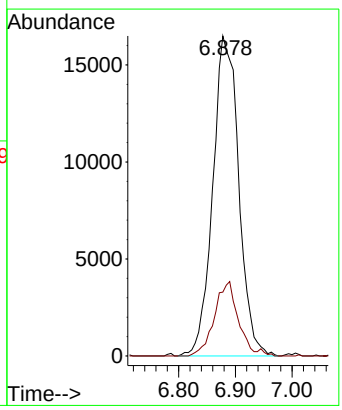


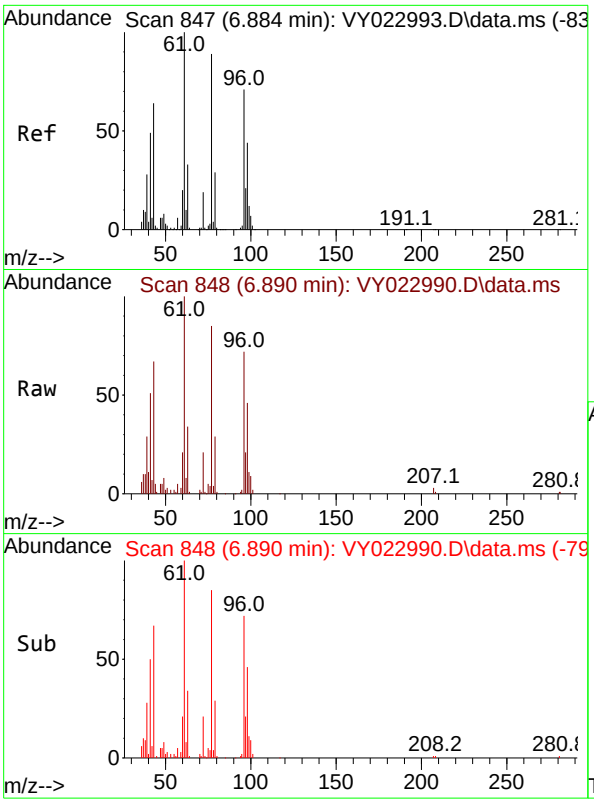


#26
2,2-Dichloropropane
Concen: 5.166 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 77 Resp: 52318

Ion	Ratio	Lower	Upper
77	100		
97	21.1	11.3	33.9



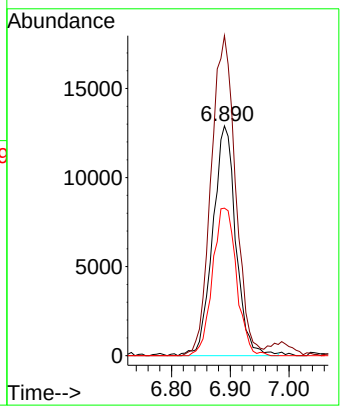


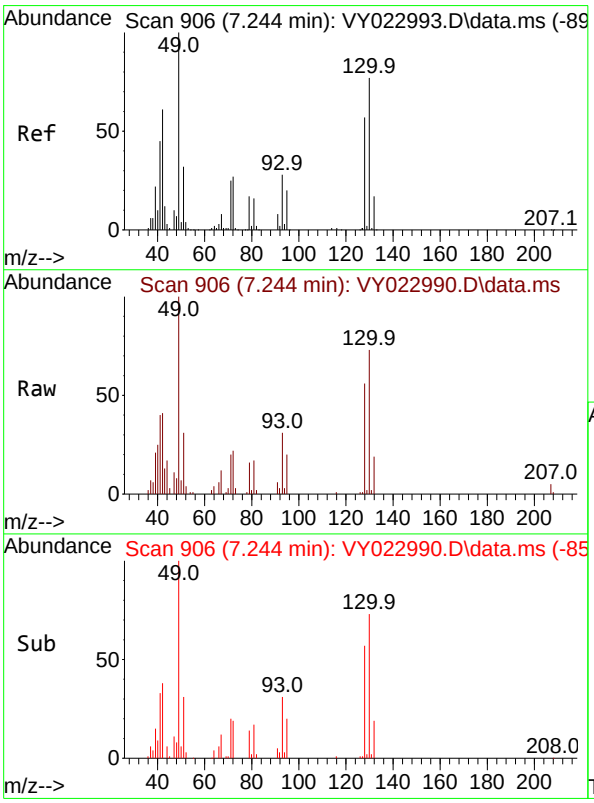
#27
cis-1,2-Dichloroethene
Concen: 4.820 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 35196

Ion	Ratio	Lower	Upper
96	100		
61	147.9	0.0	286.2
98	66.8	0.0	127.4

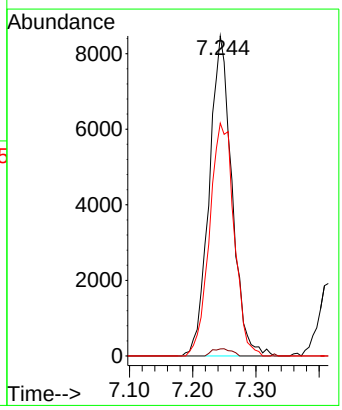


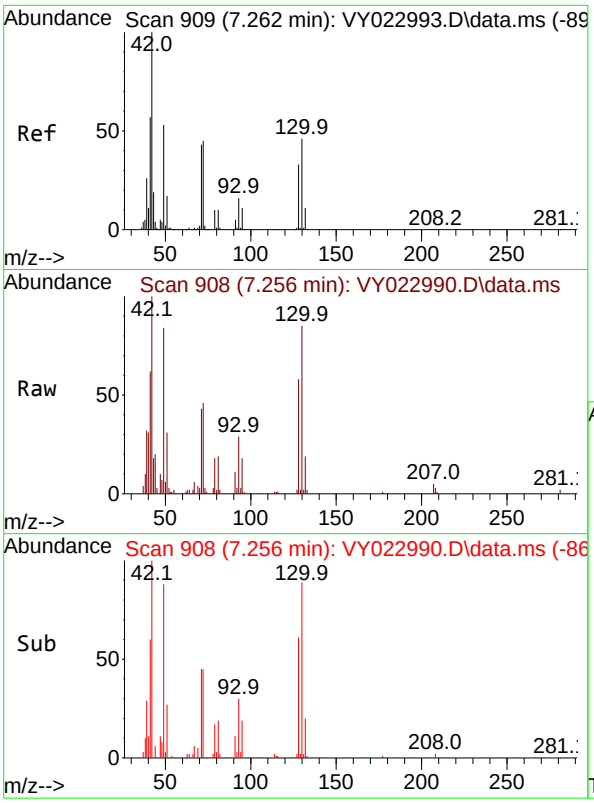


#28
Bromochloromethane
Concen: 4.714 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 49 Resp: 21127

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	78.7	61.8	92.8



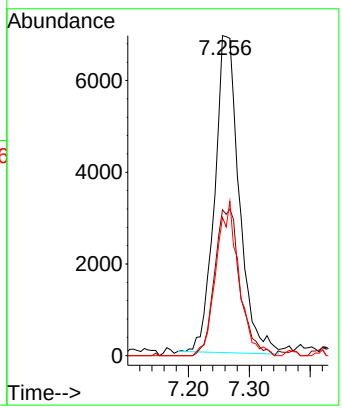


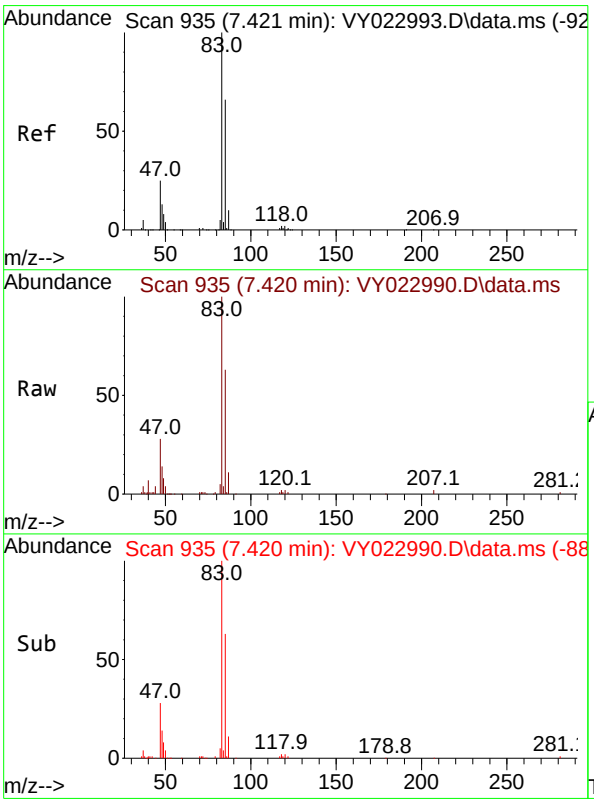
#29
Tetrahydrofuran
Concen: 21.760 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 19429

Ion	Ratio	Lower	Upper
42	100		
72	47.6	37.5	56.3
71	45.2	34.2	51.4

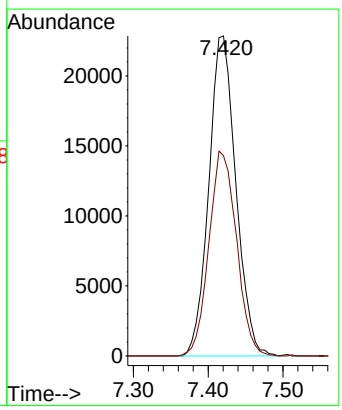


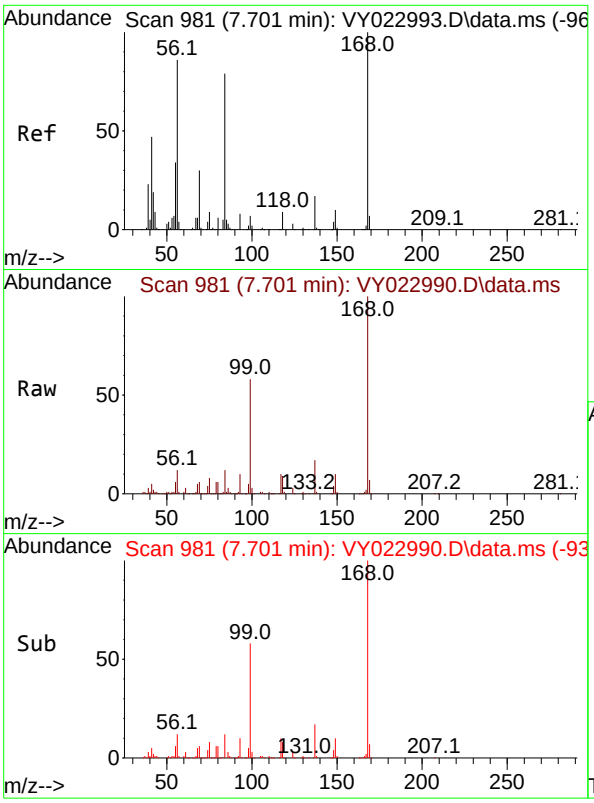


#30
Chloroform
Concen: 4.941 ug/l
RT: 7.420 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 83 Resp: 57601

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.6	78.8



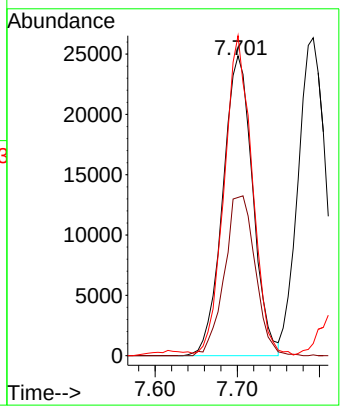


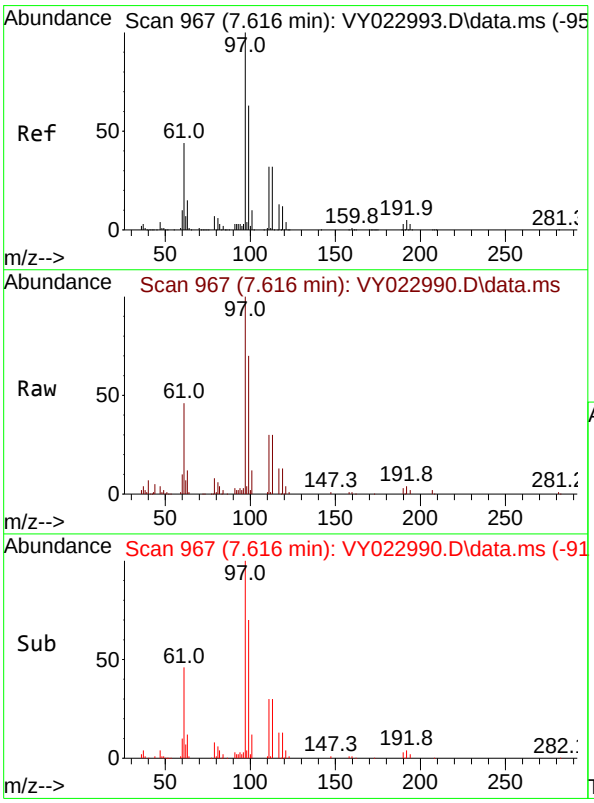
#31
Cyclohexane
Concen: 5.830 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 62949

Ion	Ratio	Lower	Upper
56	100		
69	52.8	28.1	42.1#
84	105.4	73.5	110.3

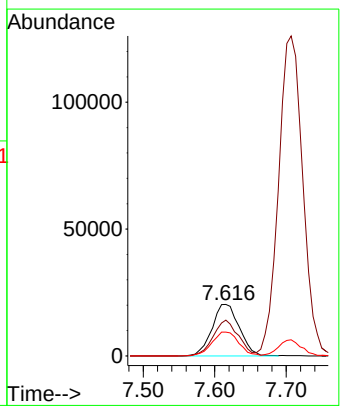


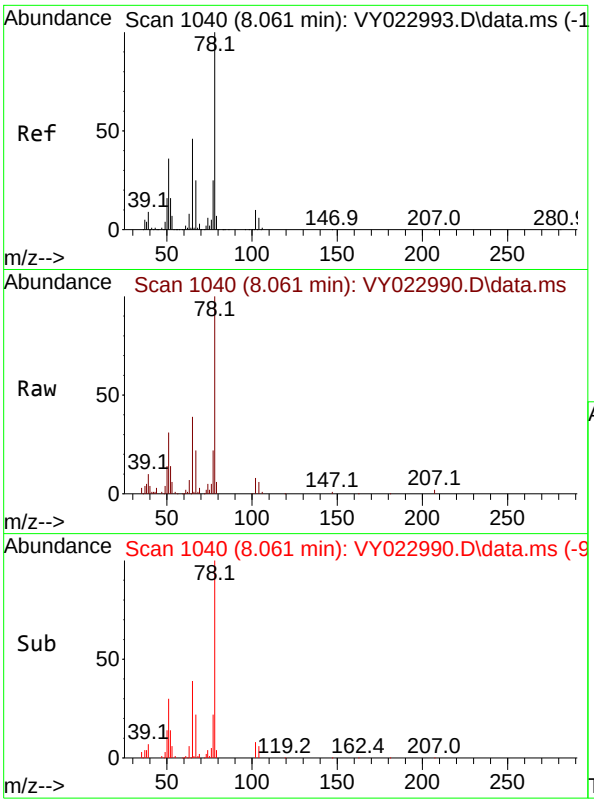


#32
1,1,1-Trichloroethane
Concen: 5.093 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 97 Resp: 53871

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.1	76.7
61	45.8	36.1	54.1



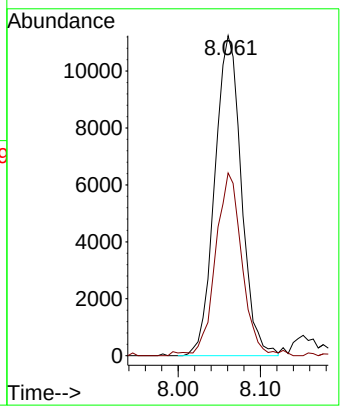


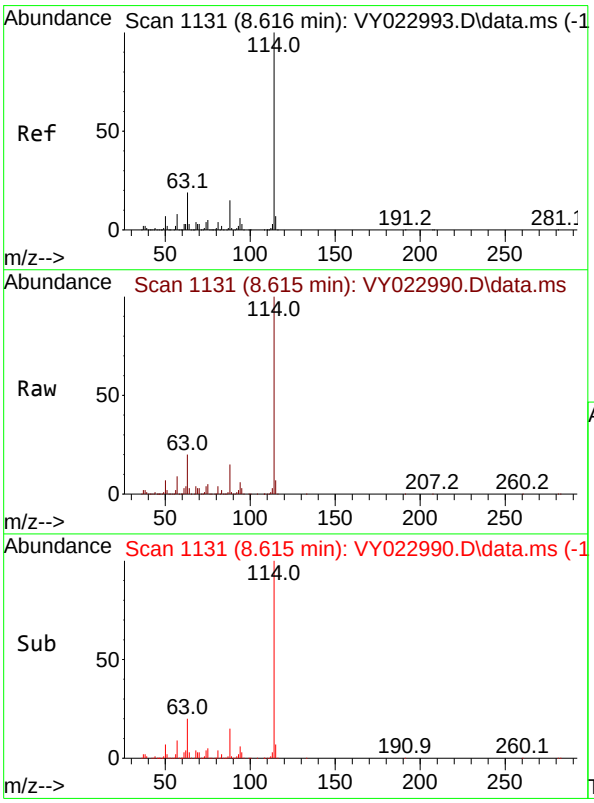
#33
1,2-Dichloroethane-d4
Concen: 4.663 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 25286

Ion	Ratio	Lower	Upper
65	100		
67	56.6	0.0	107.4

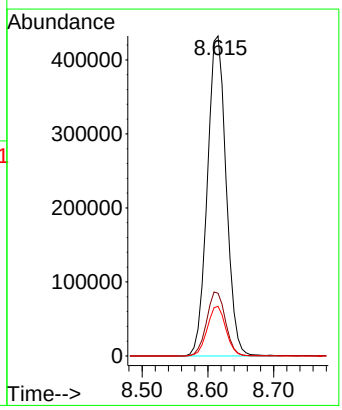


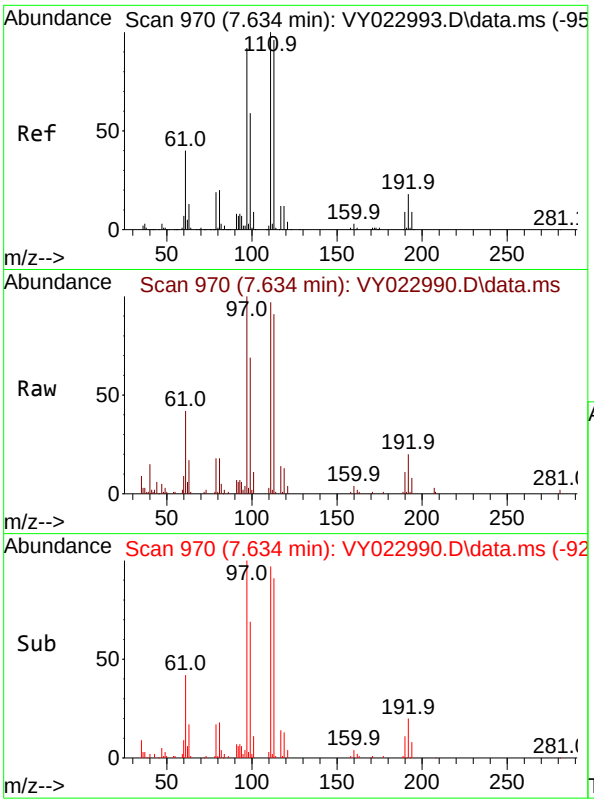


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:114 Resp: 862980

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.8
88	15.5	0.0	30.2



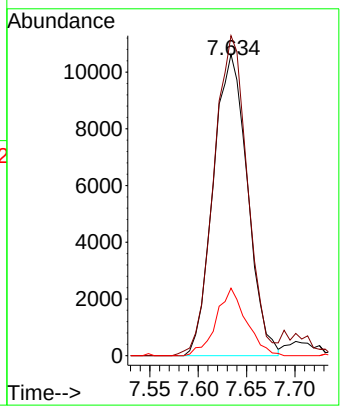


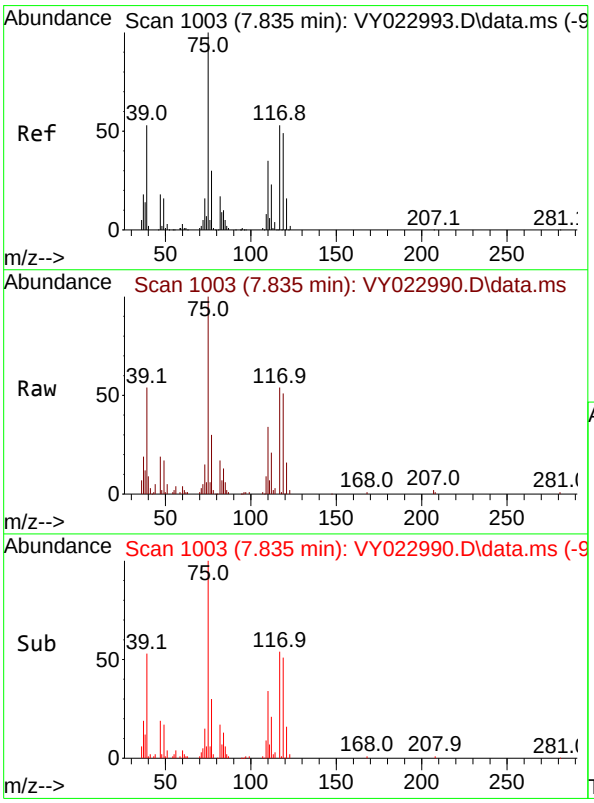
#35
Dibromofluoromethane
Concen: 4.768 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 26103

Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.2	124.8
192	19.8	15.3	22.9

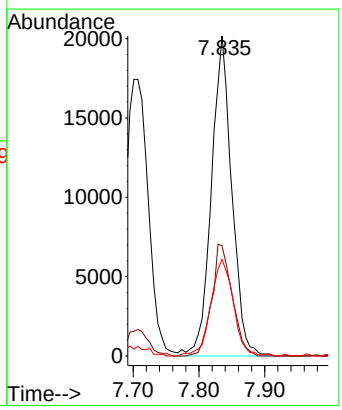


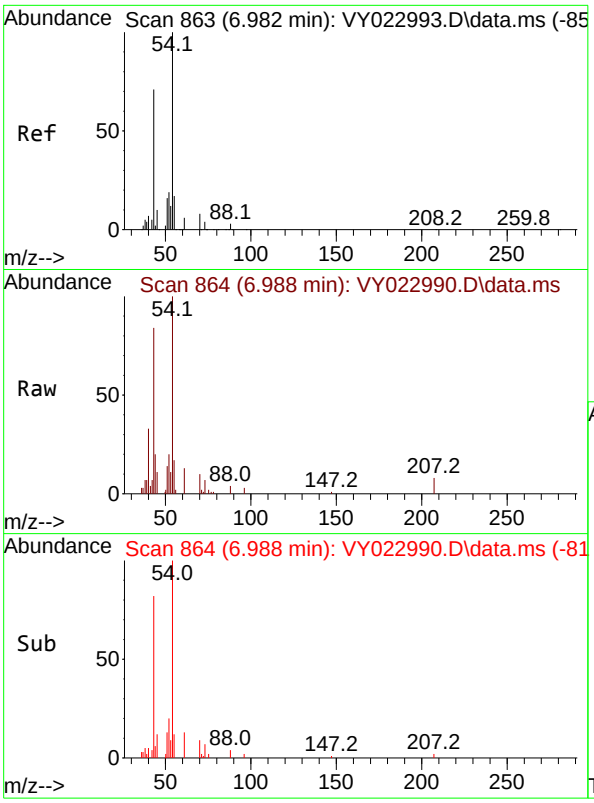


#36
1,1-Dichloropropene
Concen: 5.053 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 43575

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	33.1	24.6	37.0



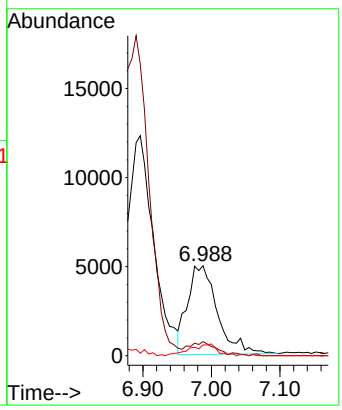


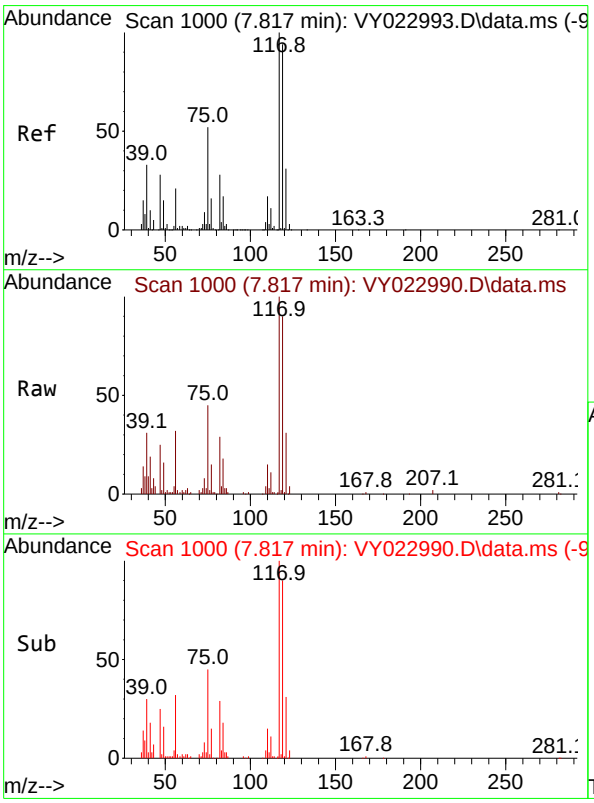
#37
Ethyl Acetate
Concen: 4.707 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 15073

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.6	17.4
70	12.1	8.5	12.7

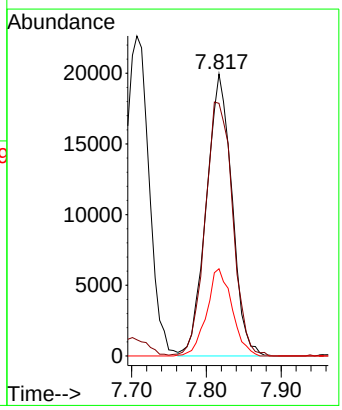


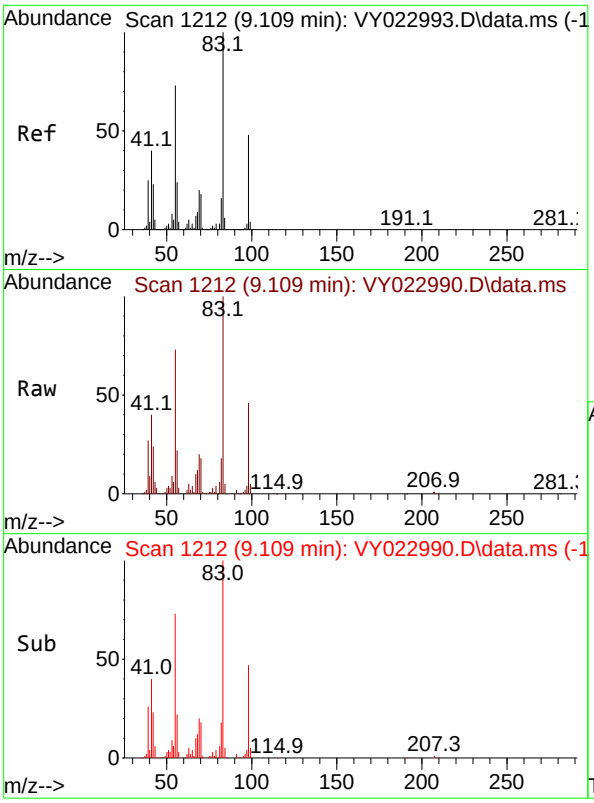


#38
Carbon Tetrachloride
Concen: 5.087 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:117 Resp: 47654

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.9	112.3
121	30.9	24.6	37.0



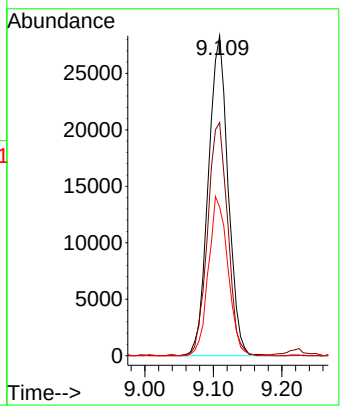


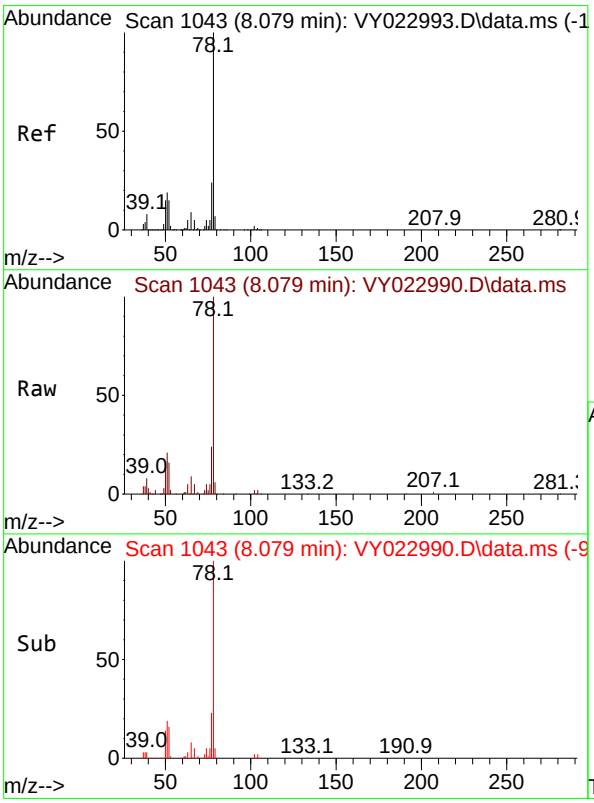
#39
Methylcyclohexane
Concen: 5.079 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 56680

Ion	Ratio	Lower	Upper
83	100		
55	72.8	58.1	87.1
98	46.4	38.5	57.7

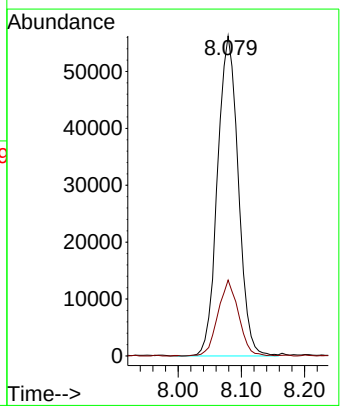


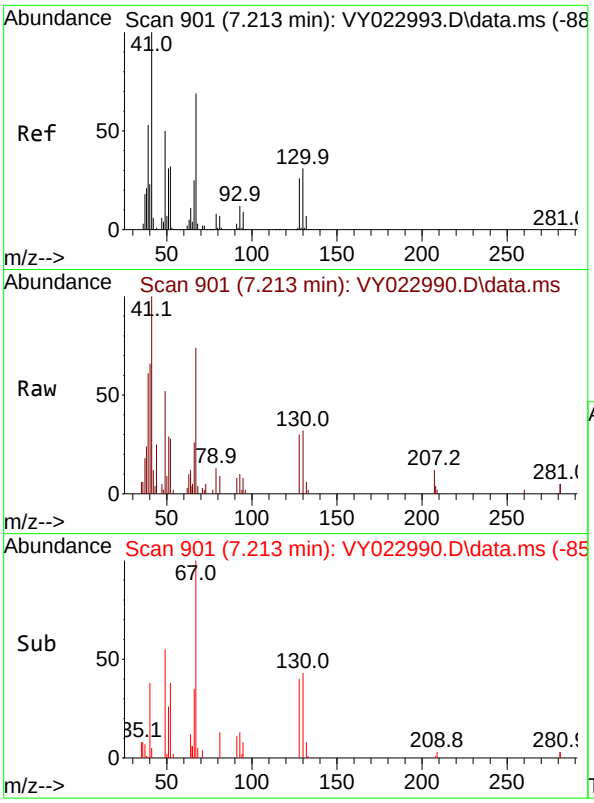


#40
Benzene
Concen: 4.934 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 78 Resp: 128094

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4



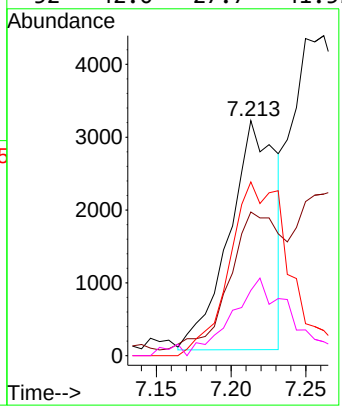


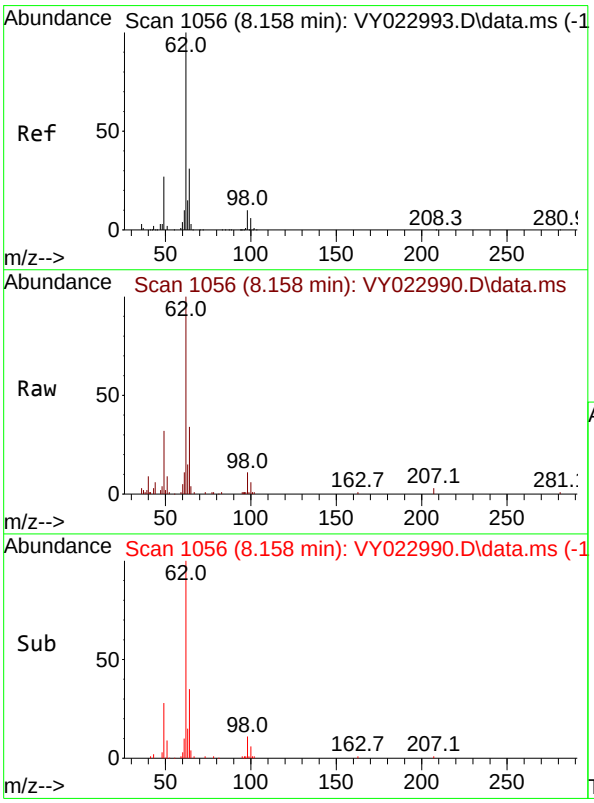
#41
Methacrylonitrile
Concen: 3.923 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 6844

Ion	Ratio	Lower	Upper
41	100		
39	69.9	50.0	75.0
67	97.5	65.4	98.2
52	42.0	27.7	41.5#

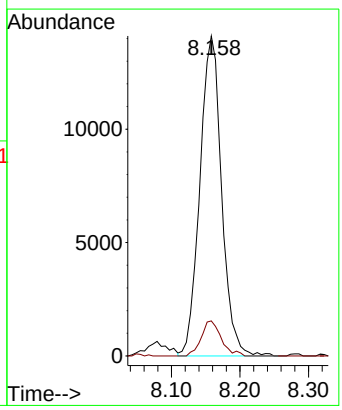


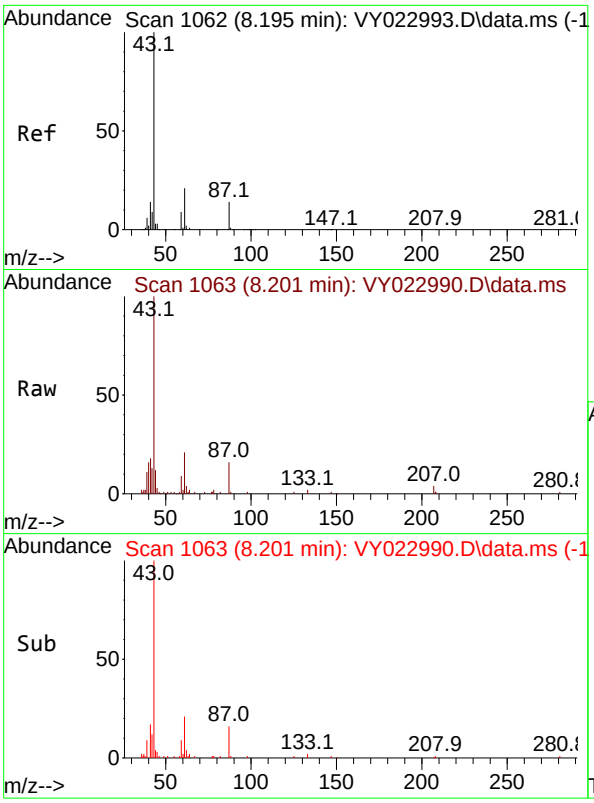


#42
1,2-Dichloroethane
Concen: 4.821 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 62 Resp: 31142

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.0



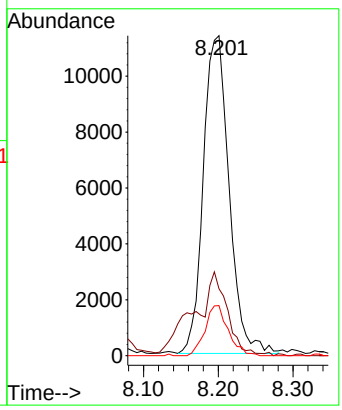


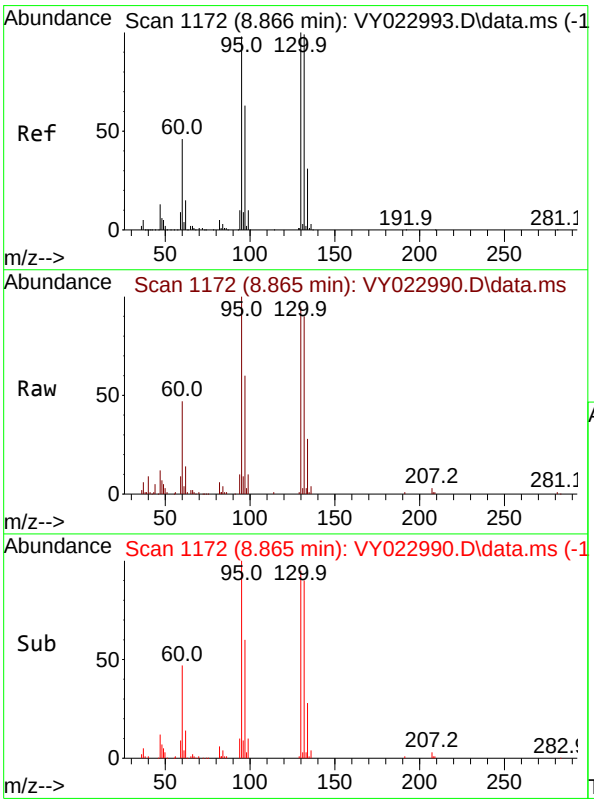
#43
Isopropyl Acetate
Concen: 4.292 ug/l
RT: 8.201 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 27300

Ion	Ratio	Lower	Upper
43	100		
61	19.1	25.0	37.4#
87	14.2	11.1	16.7

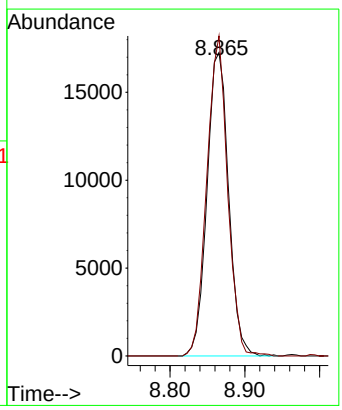


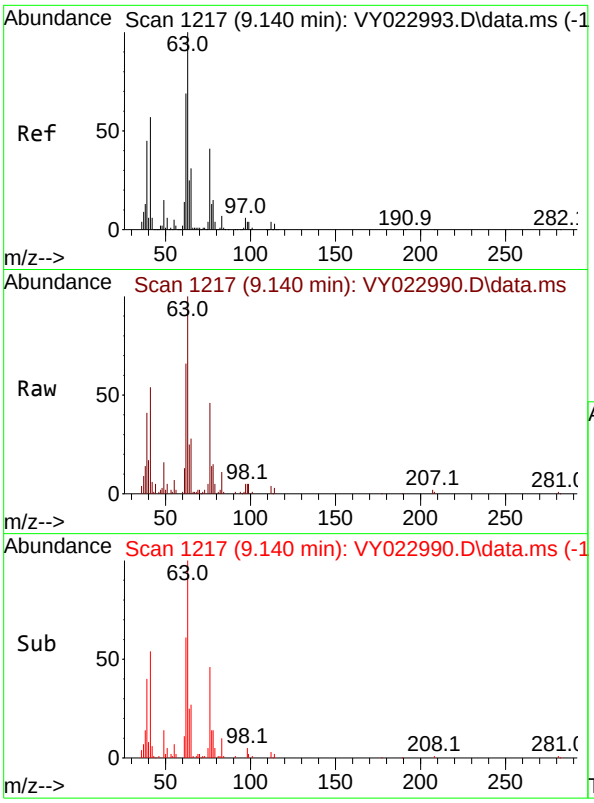


#44
Trichloroethene
Concen: 5.205 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:130 Resp: 34709

Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	195.8



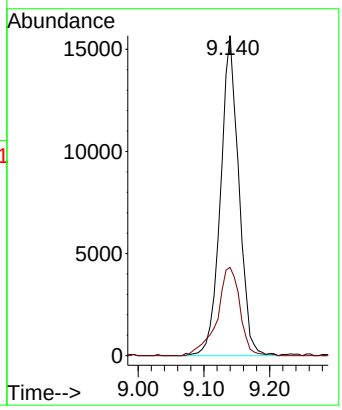


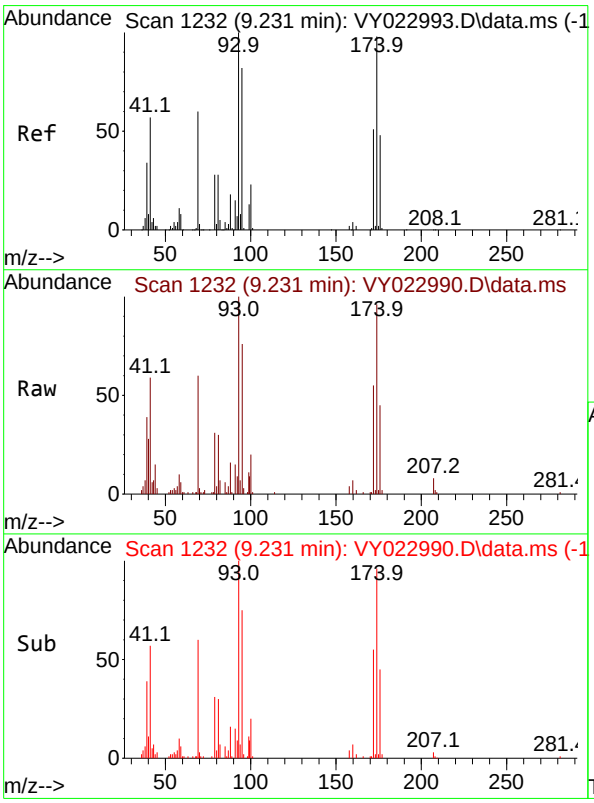
#45
1,2-Dichloropropane
Concen: 5.005 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 30343

Ion	Ratio	Lower	Upper
63	100		
65	27.6	24.6	37.0

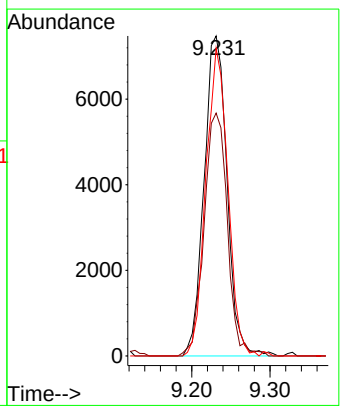


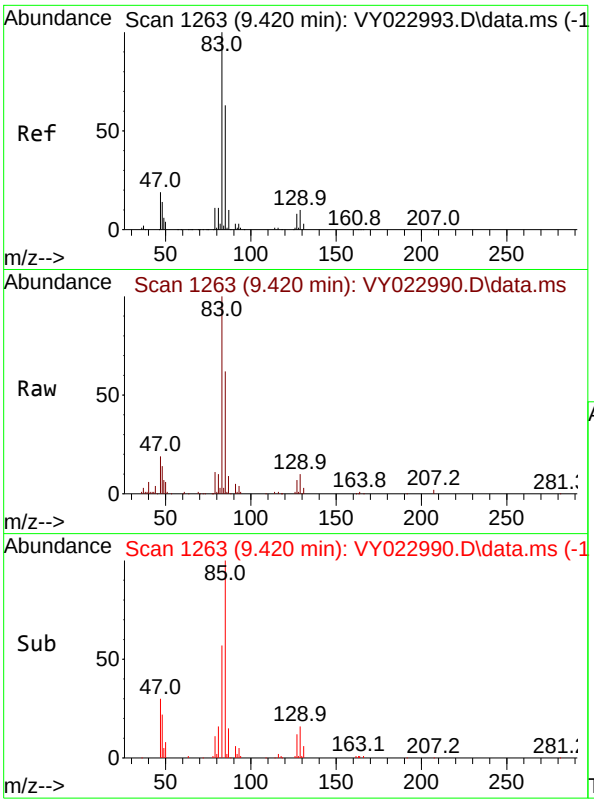


#46
Dibromomethane
Concen: 4.856 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 93 Resp: 15218

Ion	Ratio	Lower	Upper
93	100		
95	77.0	65.9	98.9
174	92.0	76.4	114.6



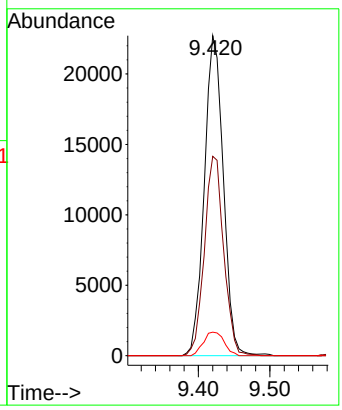


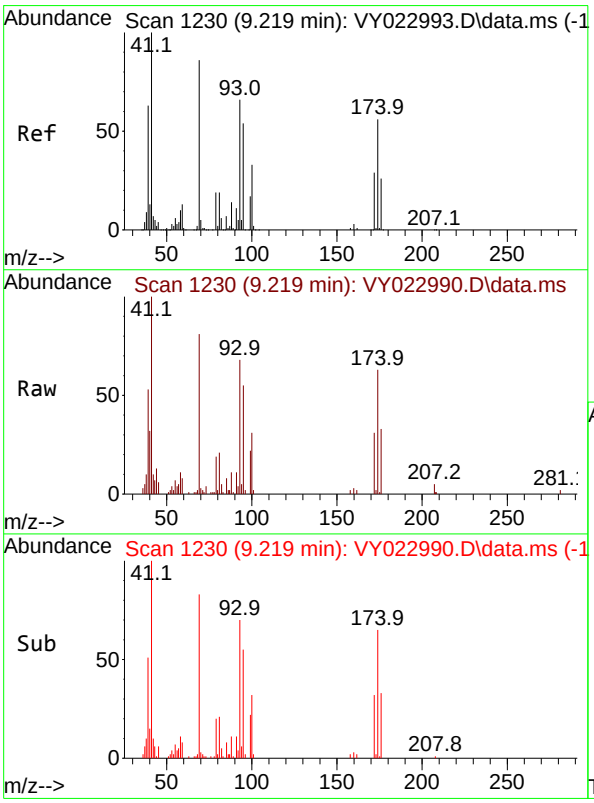
#47
Bromodichloromethane
Concen: 4.849 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 42002

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.6	75.8
127	7.3	6.5	9.7

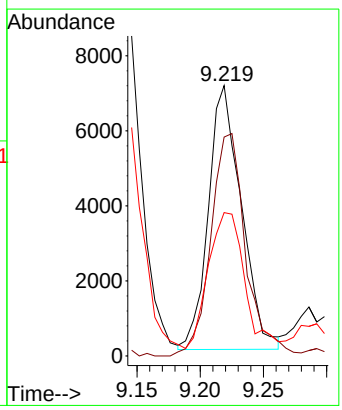


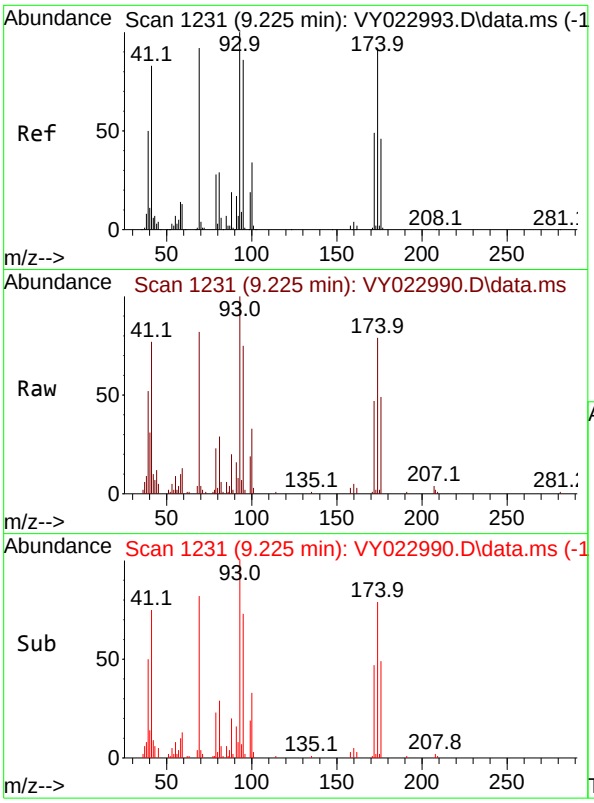


#48
Methyl methacrylate
Concen: 4.156 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 41 Resp: 12765

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	56.1	47.8	71.8



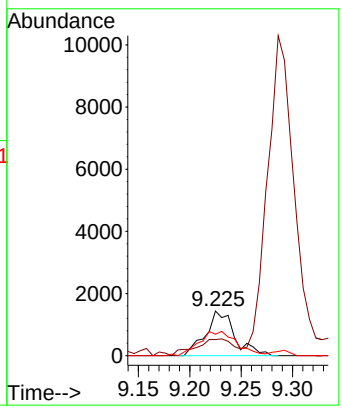


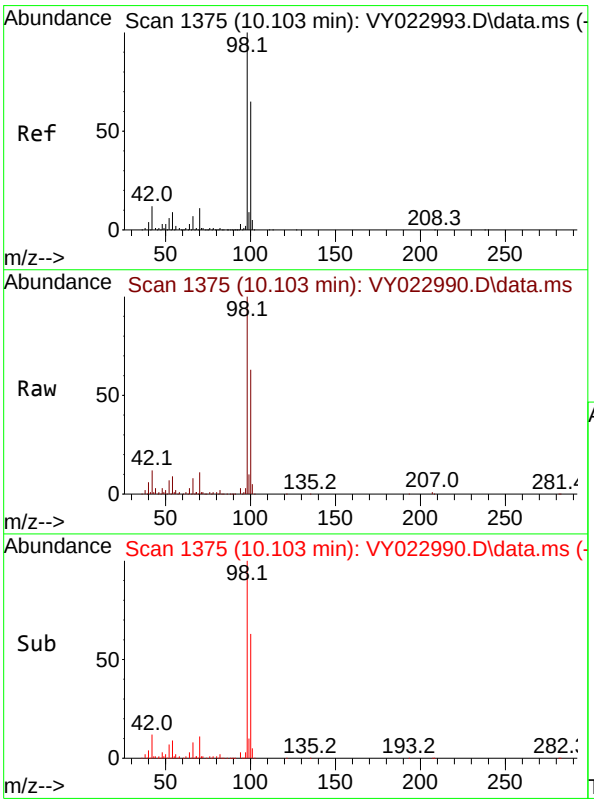
#49
1,4-Dioxane
Concen: 85.247 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 2816

Ion	Ratio	Lower	Upper
88	100		
43	48.8	28.7	43.1#
58	70.4	59.8	89.6

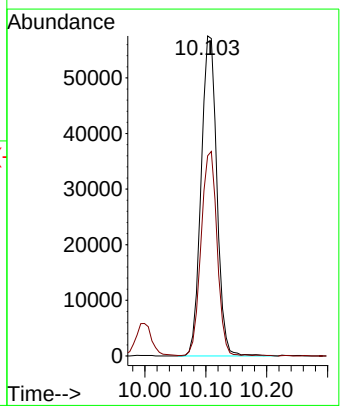


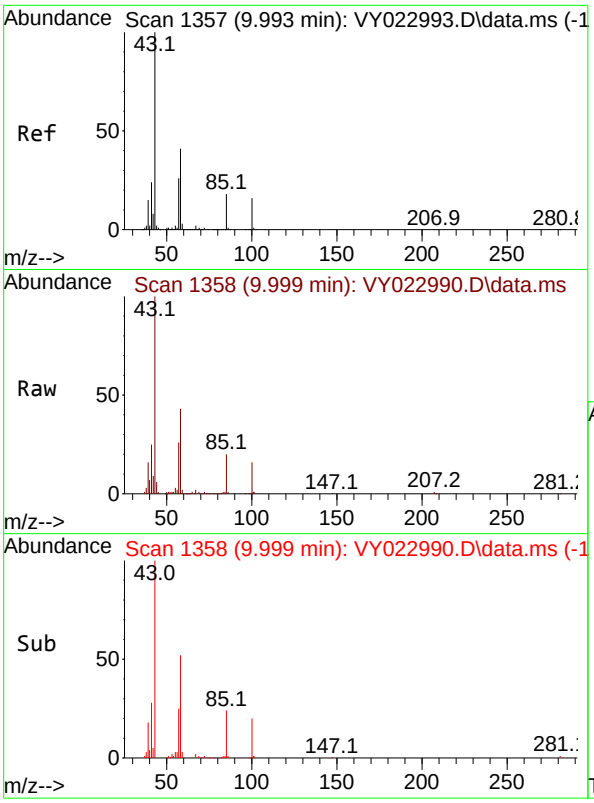


#50
Toluene-d8
Concen: 4.758 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 98 Resp: 103295

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2



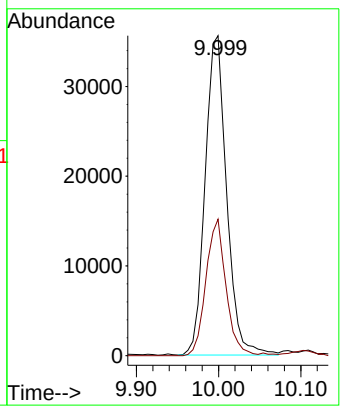


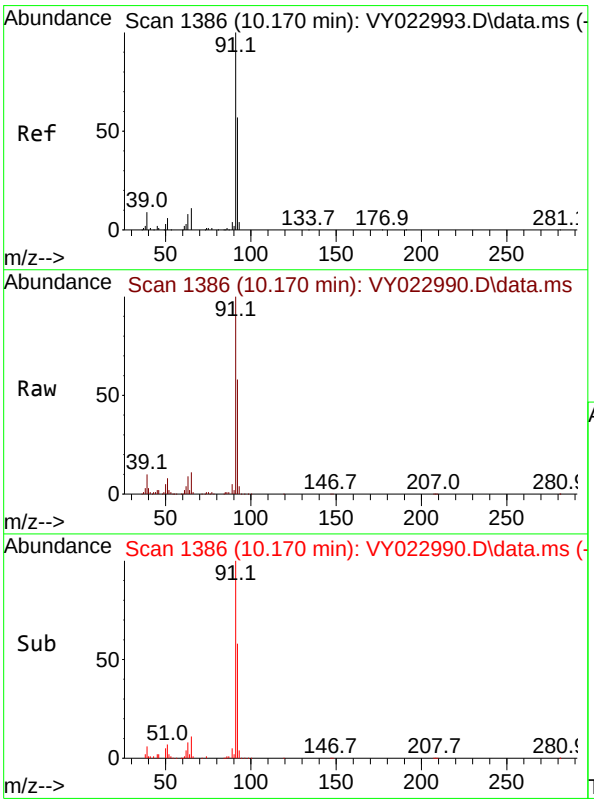
#51
4-Methyl-2-Pentanone
Concen: 20.023 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 64649

Ion	Ratio	Lower	Upper
43	100		
58	39.8	32.5	48.7

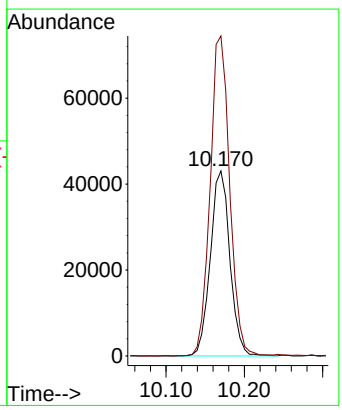


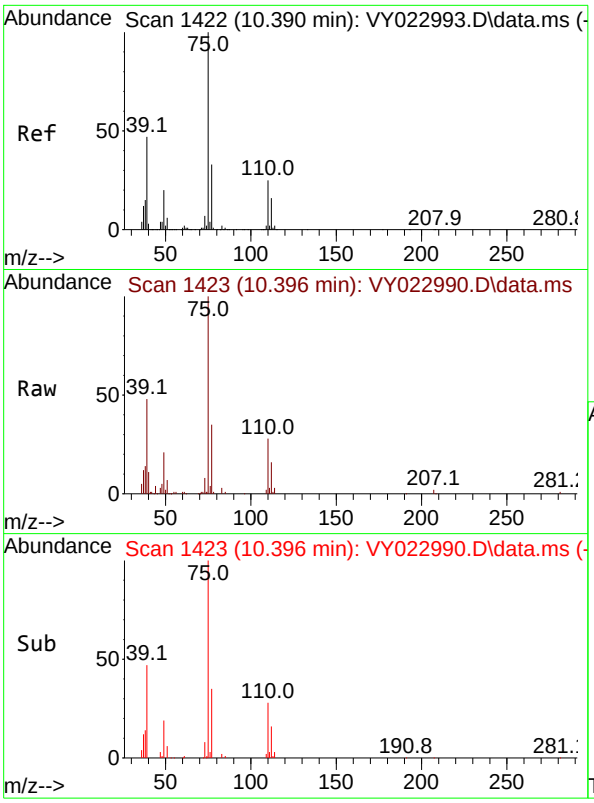


#52
Toluene
Concen: 4.626 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 92 Resp: 74665

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.8	206.6



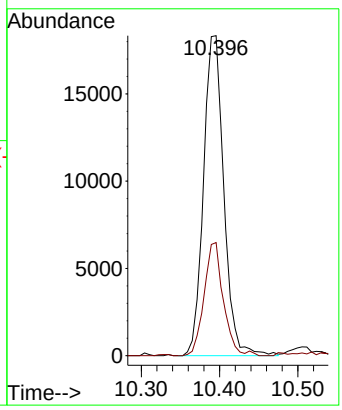


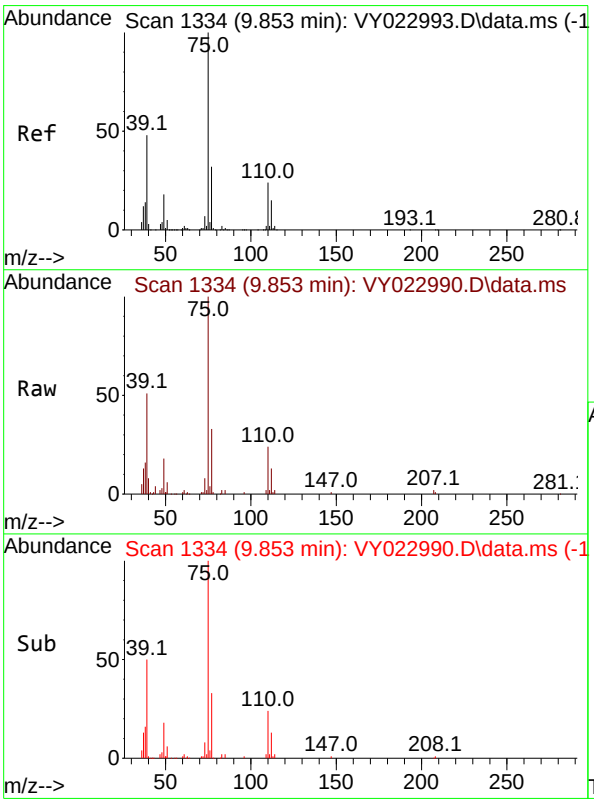
#53
t-1,3-Dichloropropene
Concen: 4.447 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 33067

Ion	Ratio	Lower	Upper
75	100		
77	35.3	26.4	39.6

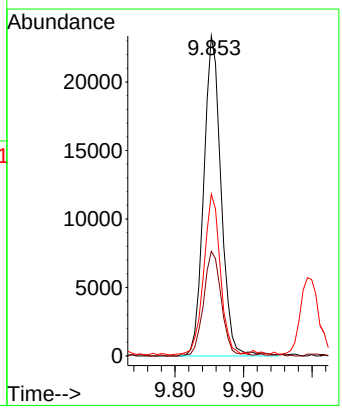


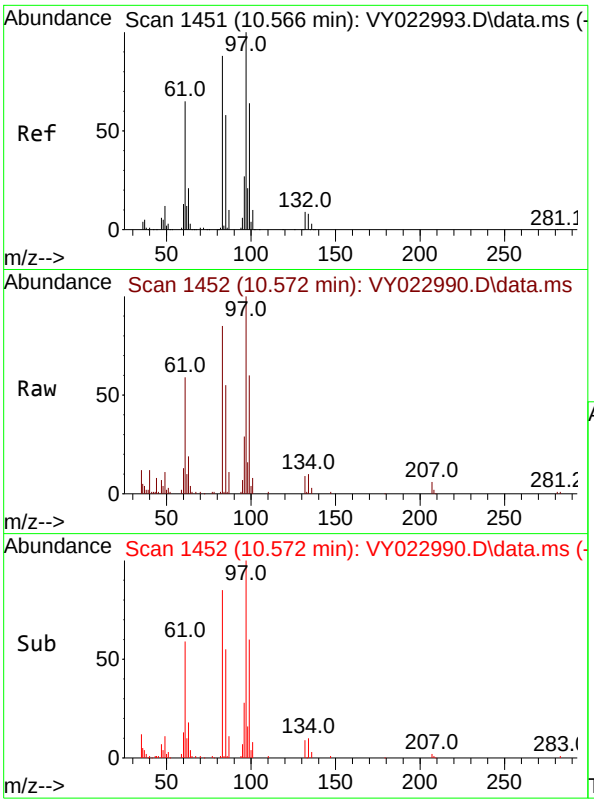


#54
cis-1,3-Dichloropropene
Concen: 4.599 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 41220

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.4	38.0
39	50.0	38.2	57.2



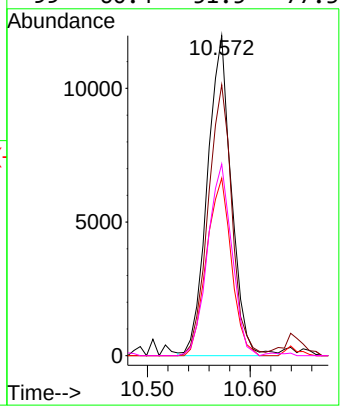


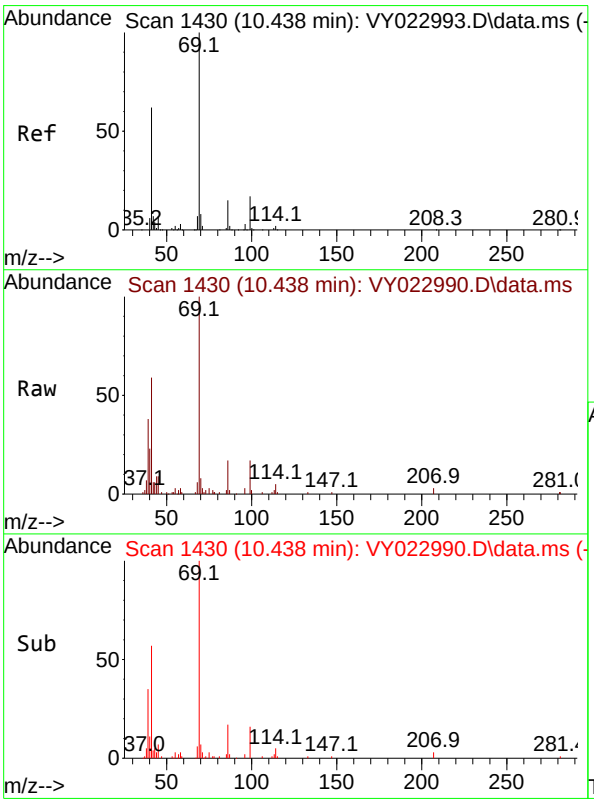
#55
1,1,2-Trichloroethane
Concen: 4.724 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 19458

Ion	Ratio	Lower	Upper
97	100		
83	85.3	70.2	105.2
85	55.9	46.2	69.2
99	60.4	51.5	77.3

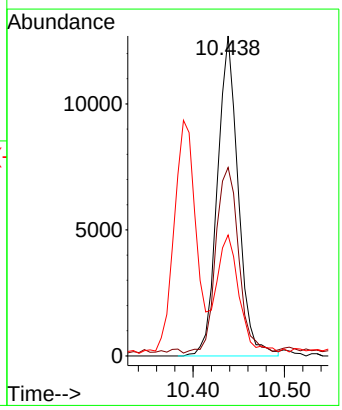


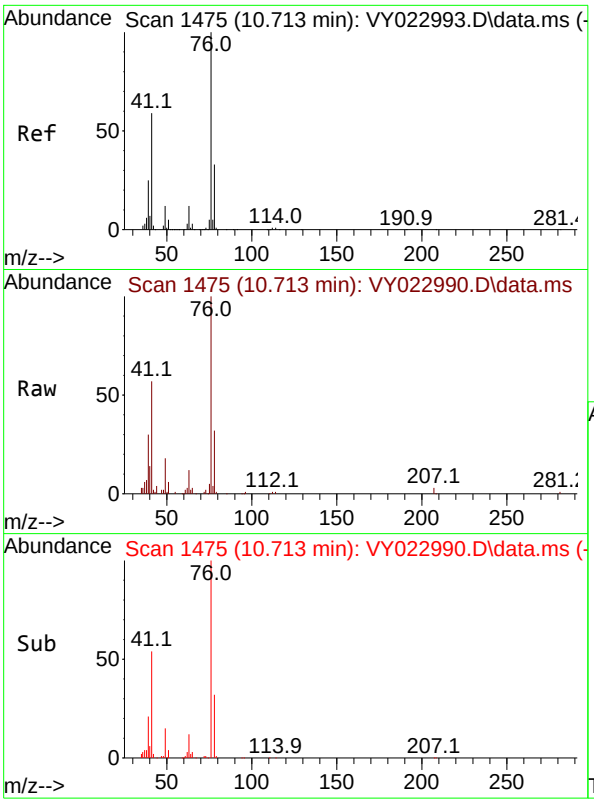


#56
Ethyl methacrylate
Concen: 3.925 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 69 Resp: 20183

Ion	Ratio	Lower	Upper
69	100		
41	63.7	51.0	76.4
39	39.5	30.6	46.0



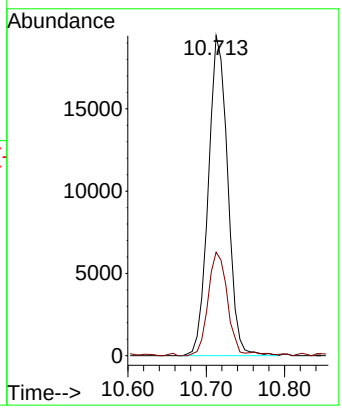


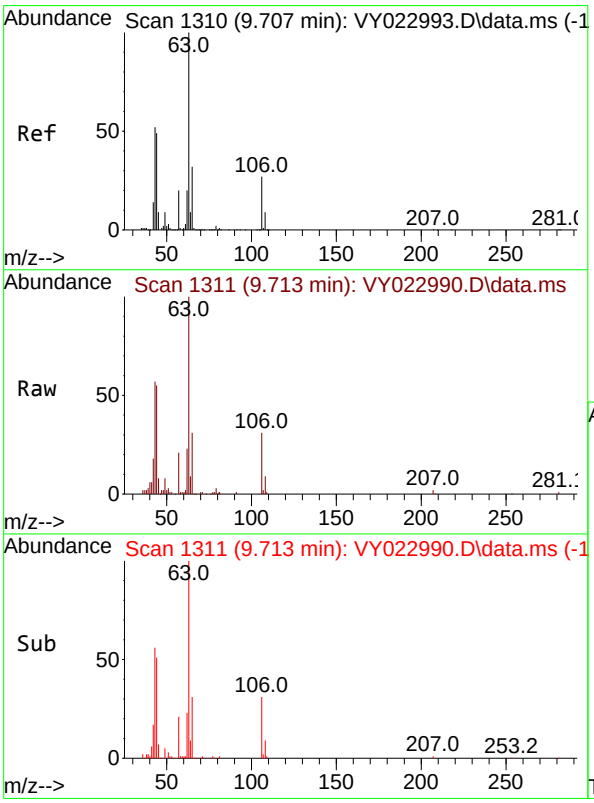
#57
1,3-Dichloropropane
Concen: 4.686 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 33346

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.6	39.8

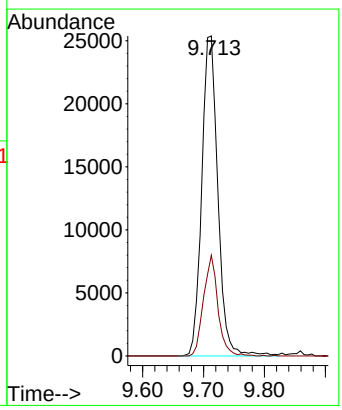


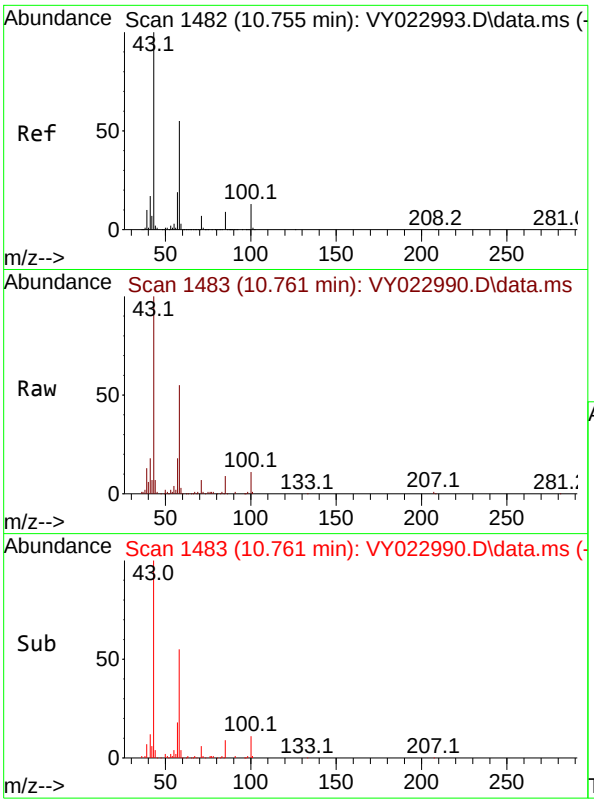


#58
2-Chloroethyl Vinyl ether
Concen: 18.550 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 63 Resp: 46689

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.6	33.8



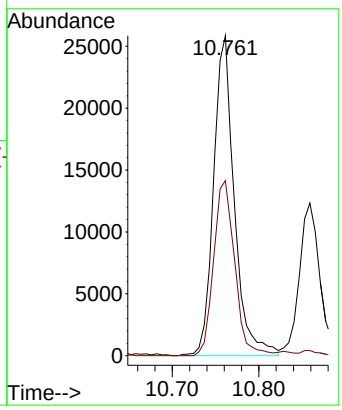


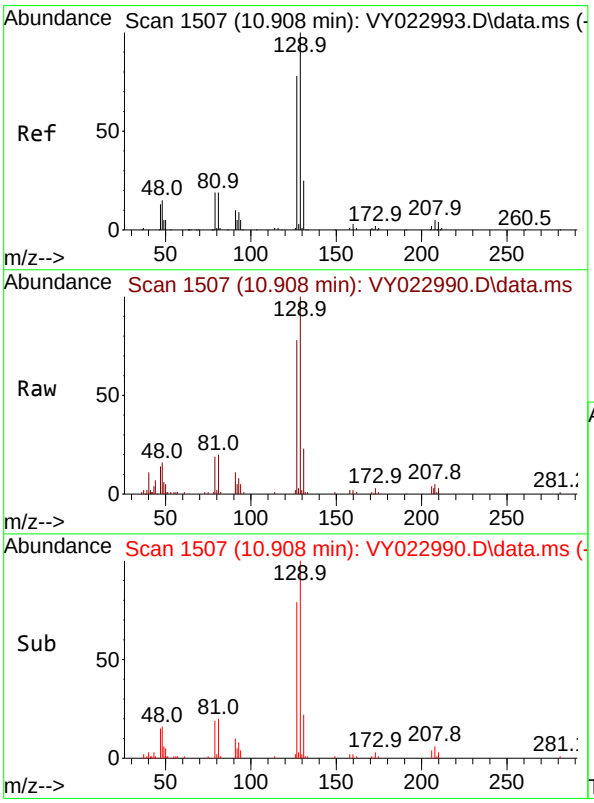
#59
2-Hexanone
Concen: 20.239 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 42954

Ion	Ratio	Lower	Upper
43	100		
58	55.5	28.1	84.3

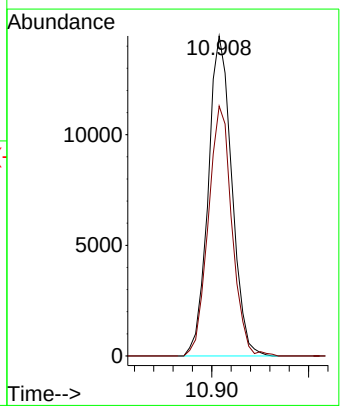


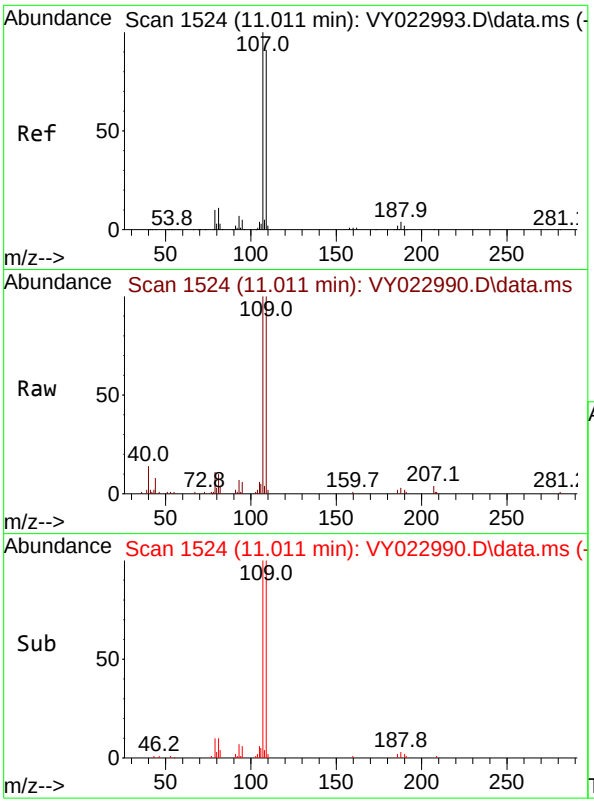


#60
Dibromochloromethane
Concen: 4.548 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:129 Resp: 24530

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.7	116.1



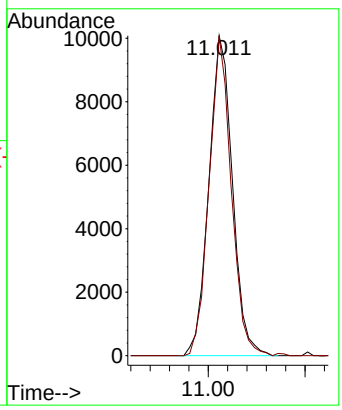


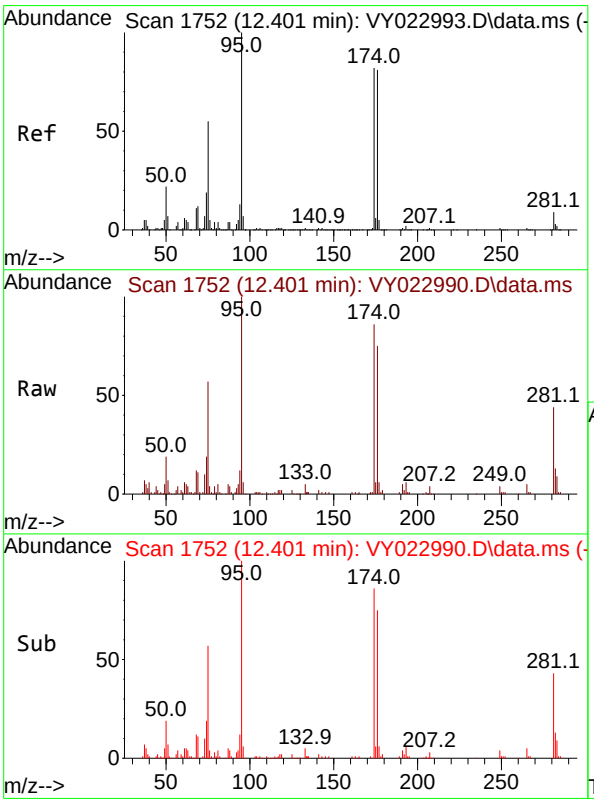
#61
1,2-Dibromoethane
Concen: 4.555 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 17039

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.1	112.7

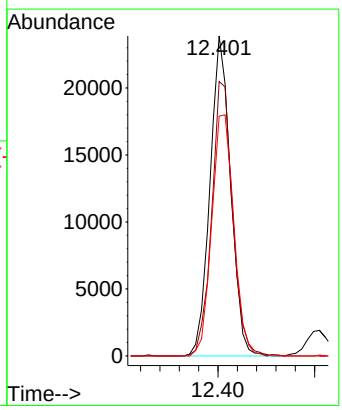


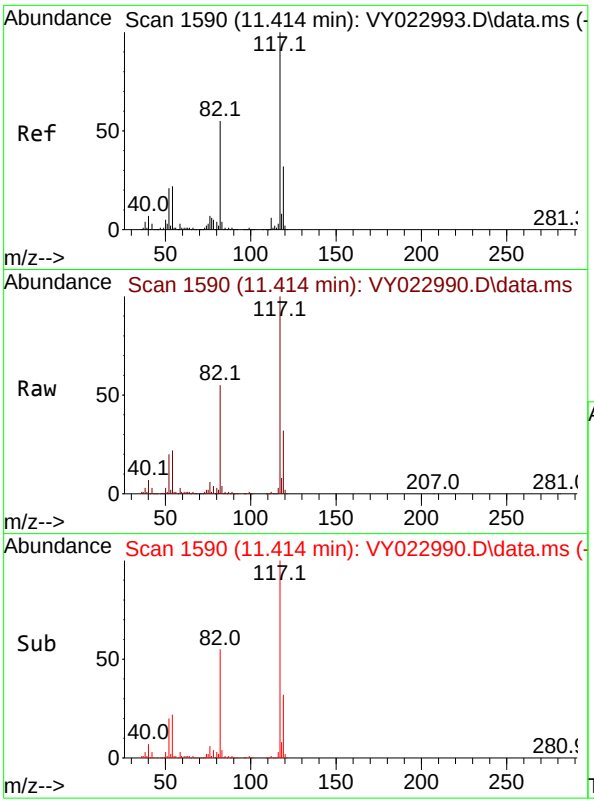


#62
4-Bromofluorobenzene
Concen: 5.165 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 95 Resp: 35295

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	170.8
176	81.0	0.0	163.6



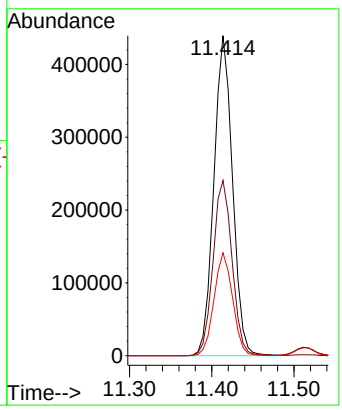


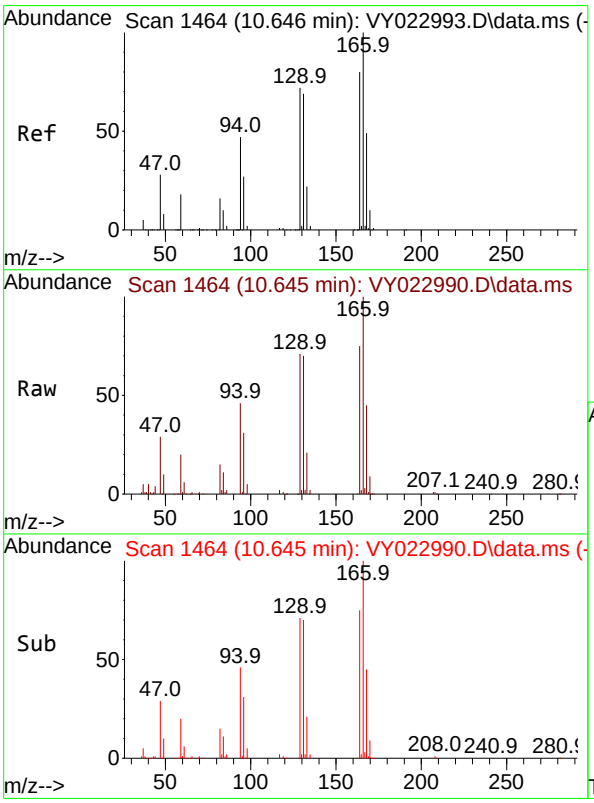
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 692947

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.3	66.5
119	32.1	25.8	38.8

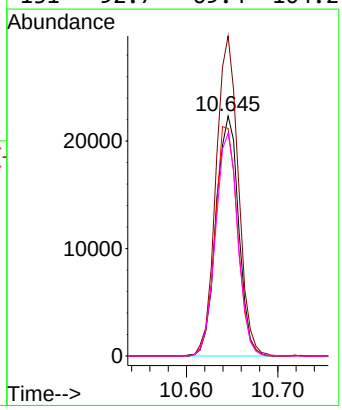


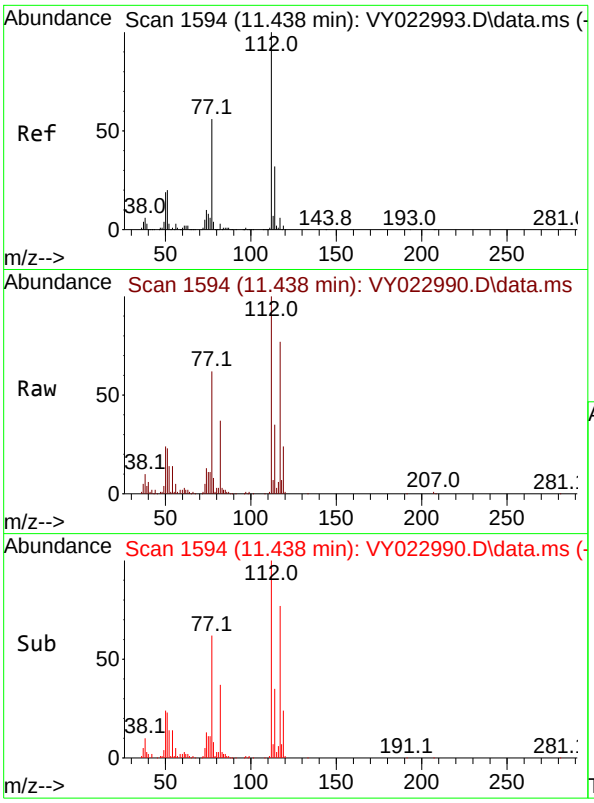


#64
Tetrachloroethene
Concen: 5.427 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:164 Resp: 38436

Ion	Ratio	Lower	Upper
164	100		
166	133.3	100.2	150.2
129	94.8	71.7	107.5
131	92.7	69.4	104.2



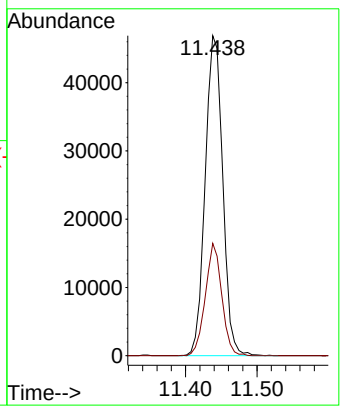


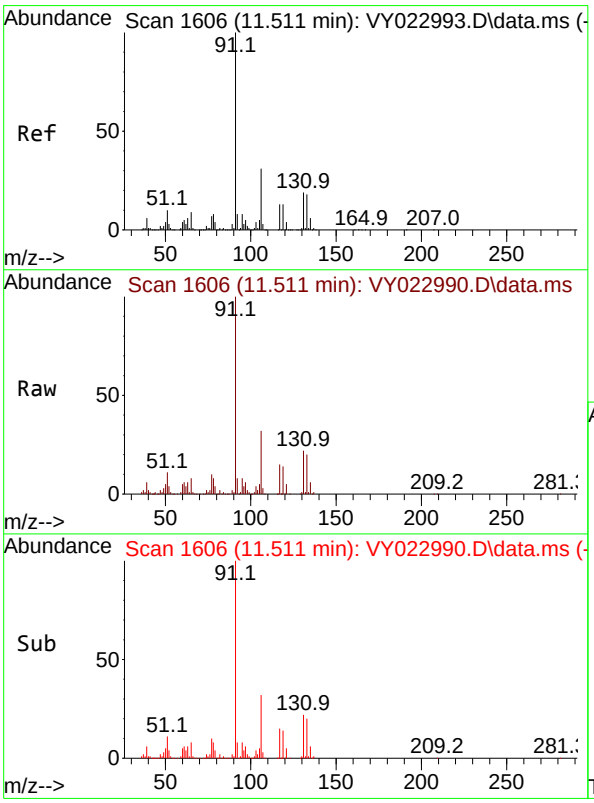
#65
Chlorobenzene
Concen: 4.877 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 79744

Ion	Ratio	Lower	Upper
112	100		
114	35.1	25.4	38.2

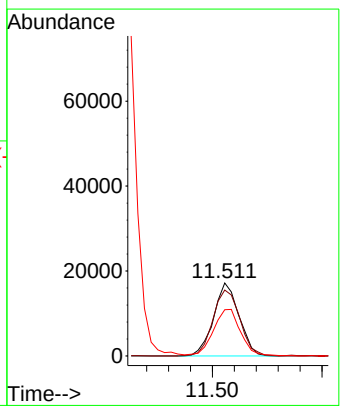


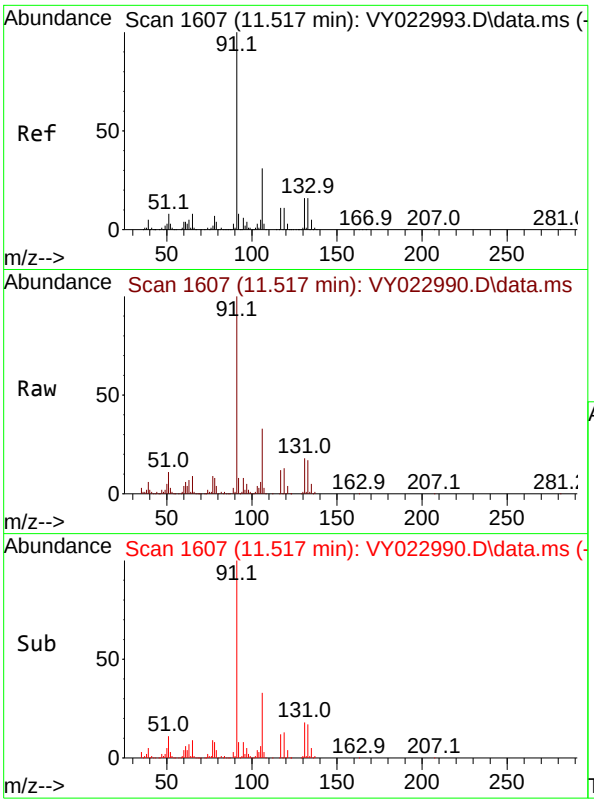


#66
1,1,1,2-Tetrachloroethane
Concen: 4.957 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:131 Resp: 27645

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.8	143.3
119	68.6	33.3	99.8



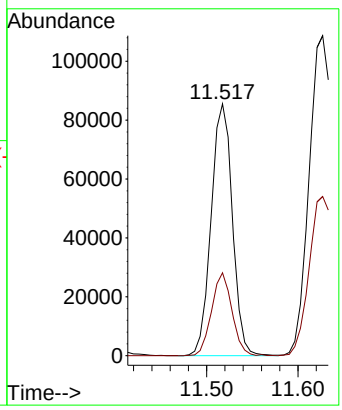


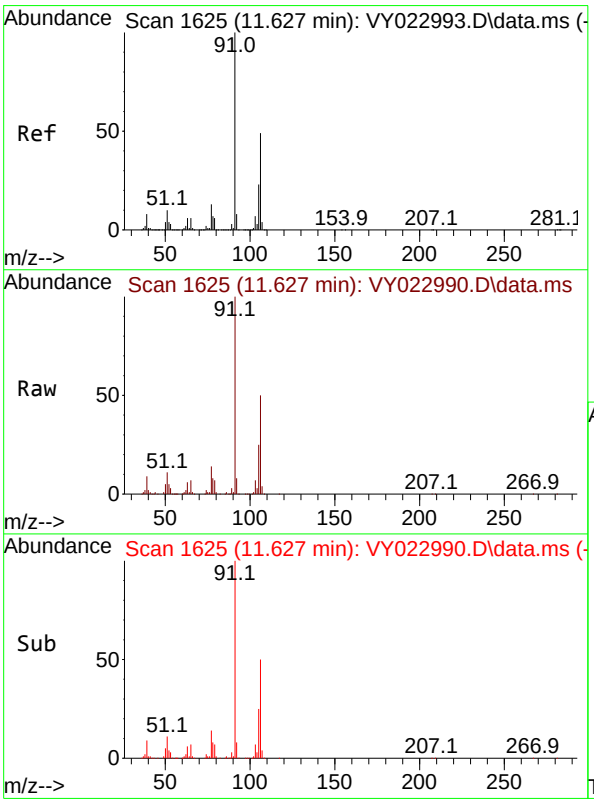
#67
Ethyl Benzene
Concen: 4.764 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 138078

Ion	Ratio	Lower	Upper
91	100		
106	32.9	24.6	37.0

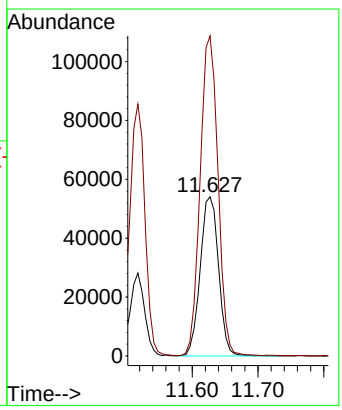


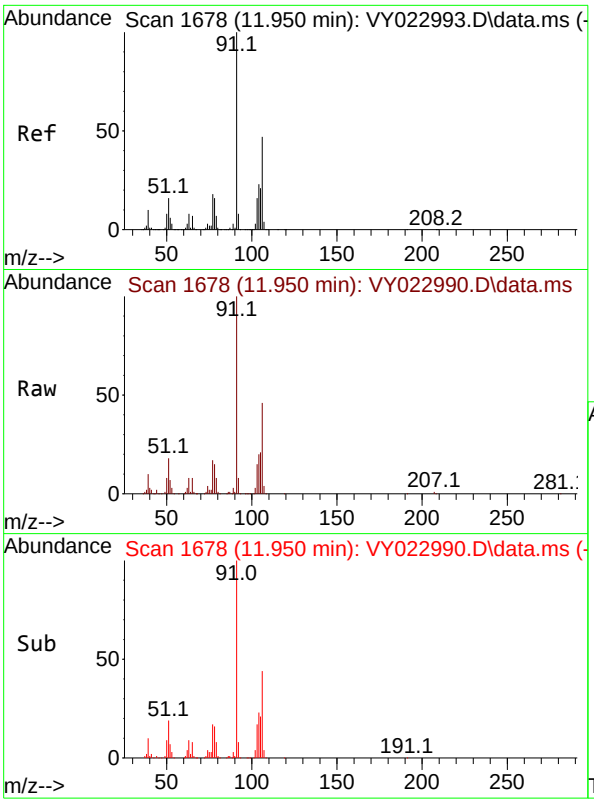


#68
m/p-Xylenes
Concen: 9.414 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:106 Resp: 104654

Ion	Ratio	Lower	Upper
106	100		
91	195.4	159.8	239.8



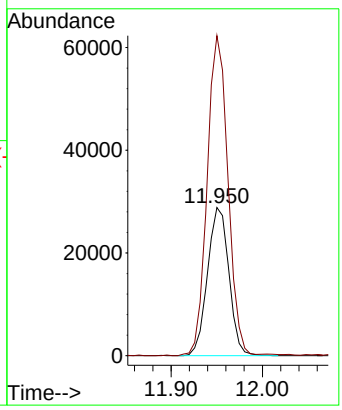


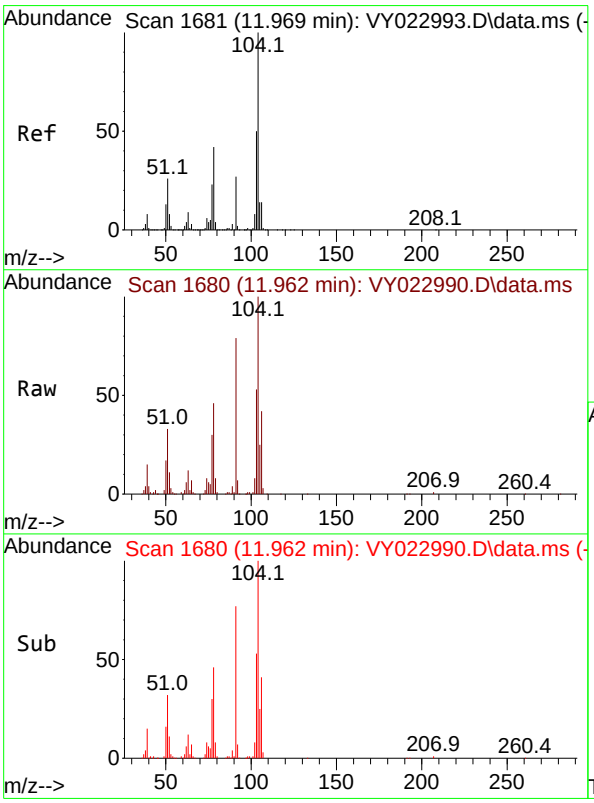
#69
o-Xylene
Concen: 4.541 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 46850

Ion	Ratio	Lower	Upper
106	100		
91	210.1	106.3	318.8

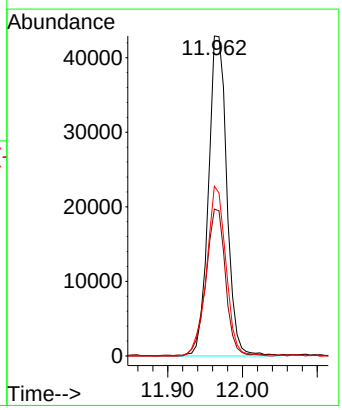


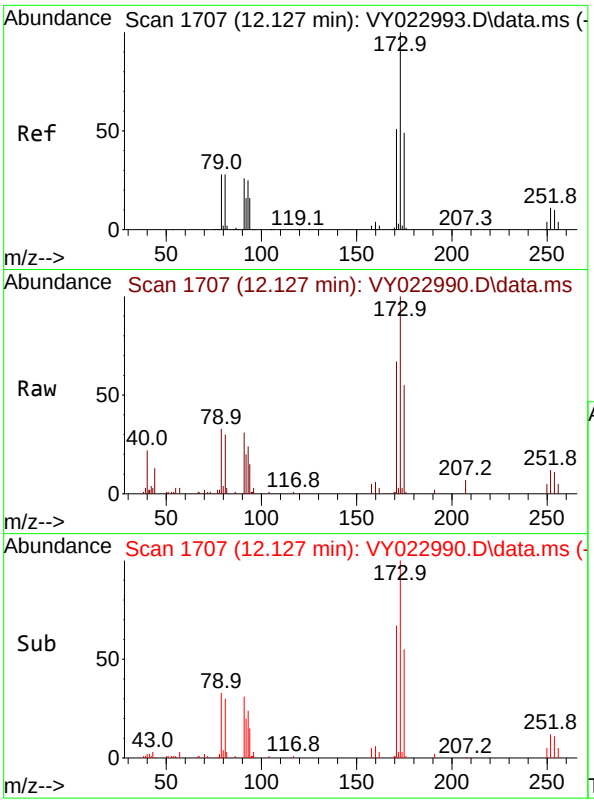


#70
Styrene
Concen: 4.345 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:104 Resp: 73426

Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.6
103	55.9	43.7	65.5



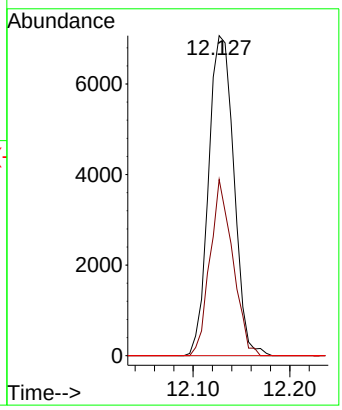


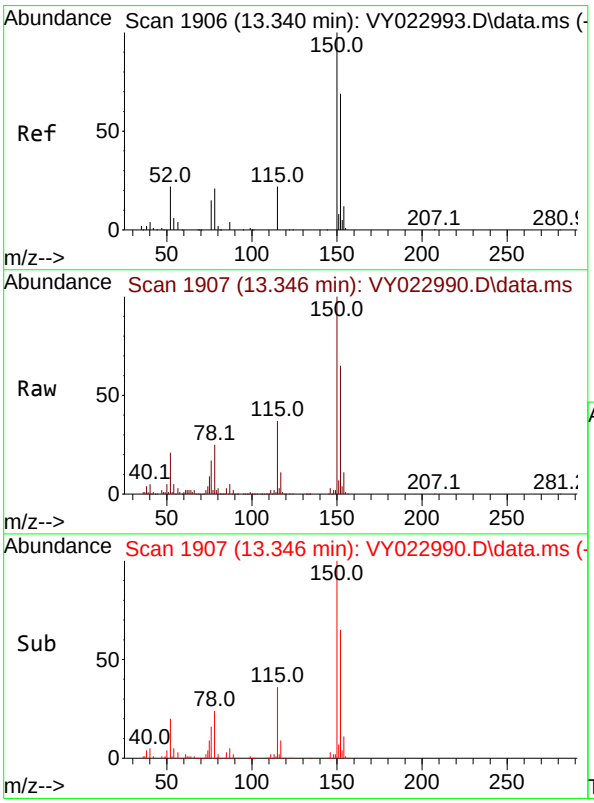
#71
Bromoform
Concen: 4.541 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 12858

Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.6	73.8
254	0.0	0.2	0.2#

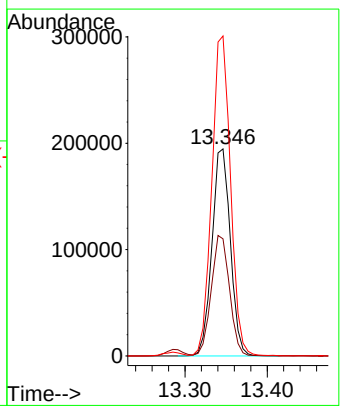


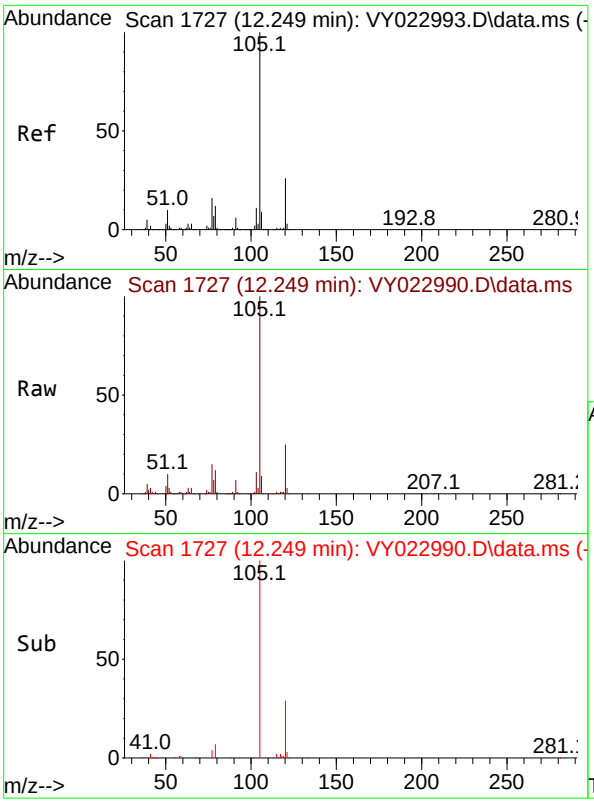


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:152 Resp: 302335

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.4	88.2
150	156.9	0.0	350.0



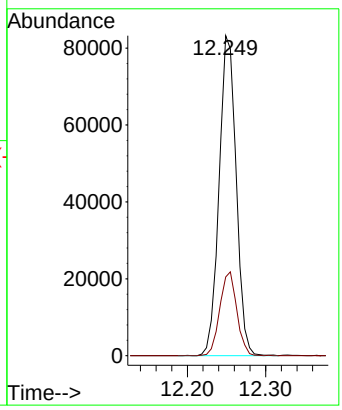


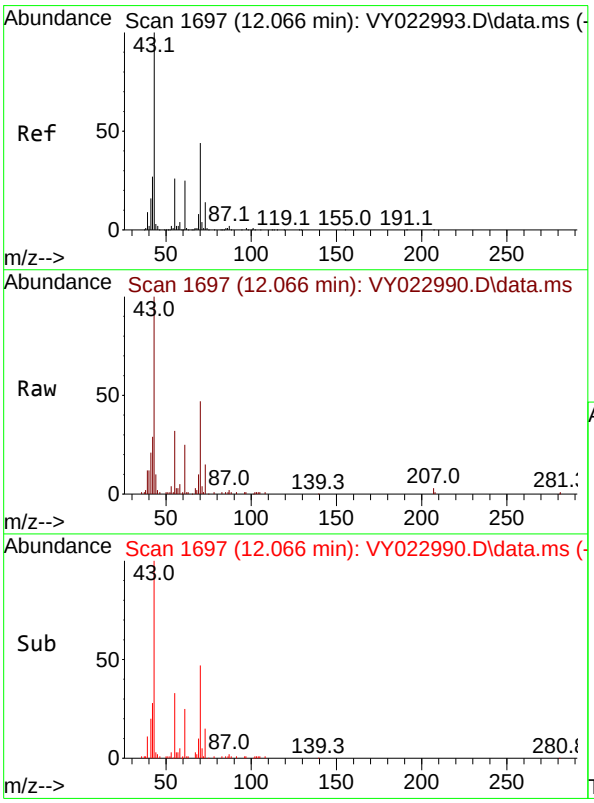
#73
Isopropylbenzene
Concen: 4.925 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 126243

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

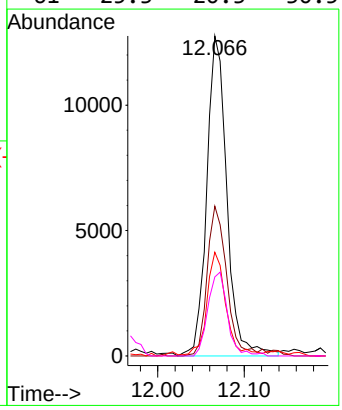


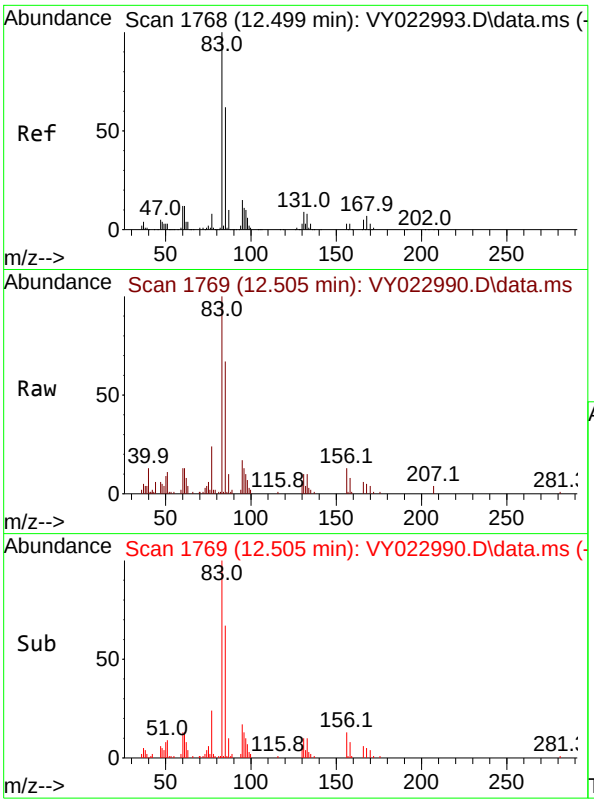


#74
N-amyl acetate
Concen: 4.269 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 43 Resp: 20632

Ion	Ratio	Lower	Upper
43	100		
70	45.9	36.2	54.2
55	29.3	20.9	31.3
61	25.3	20.3	30.5



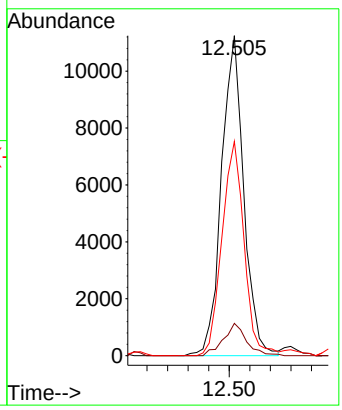


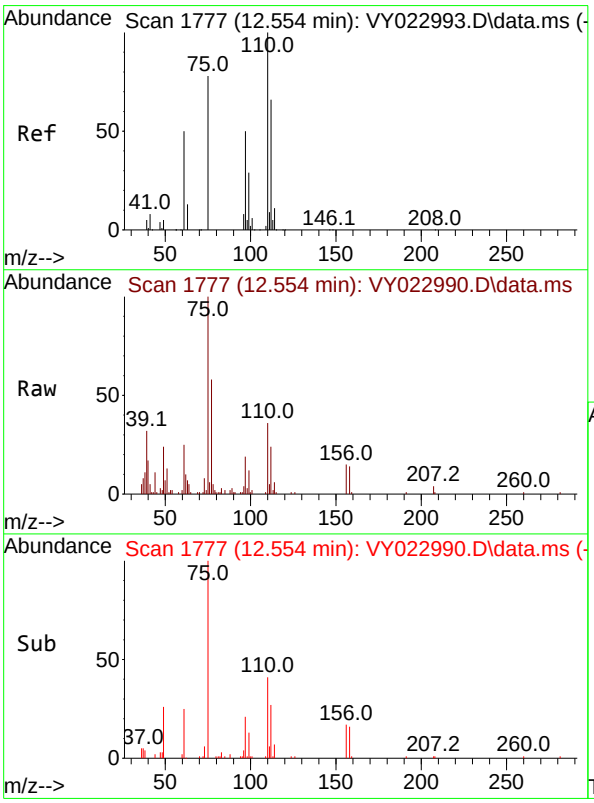
#75
1,1,2,2-Tetrachloroethane
Concen: 4.544 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 16857

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	66.5	31.9	95.7

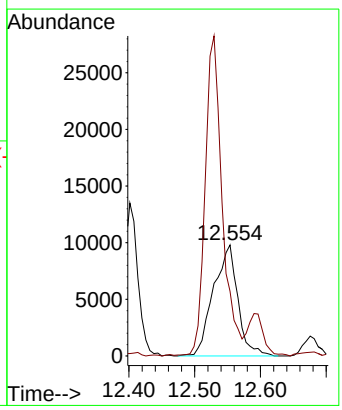


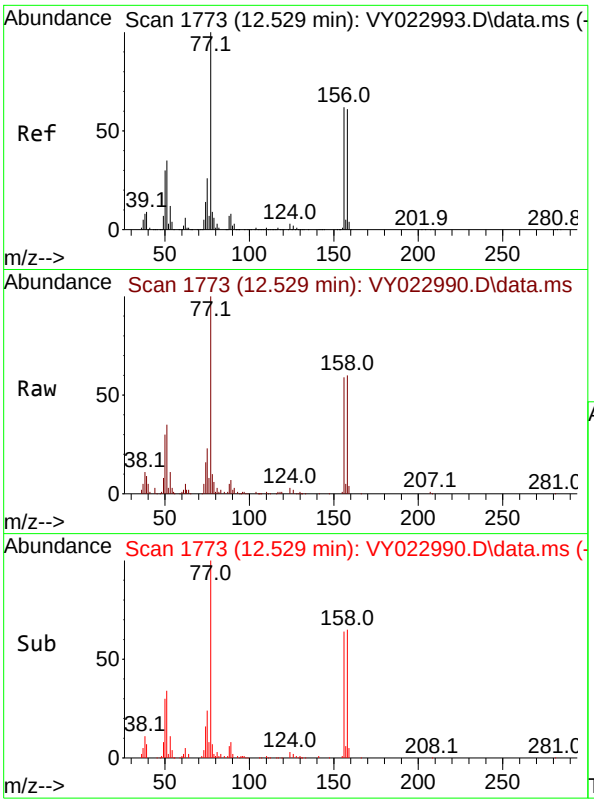


#76
1,2,3-Trichloropropane
Concen: 6.710 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 25279

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



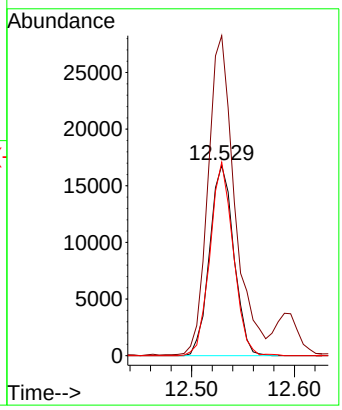


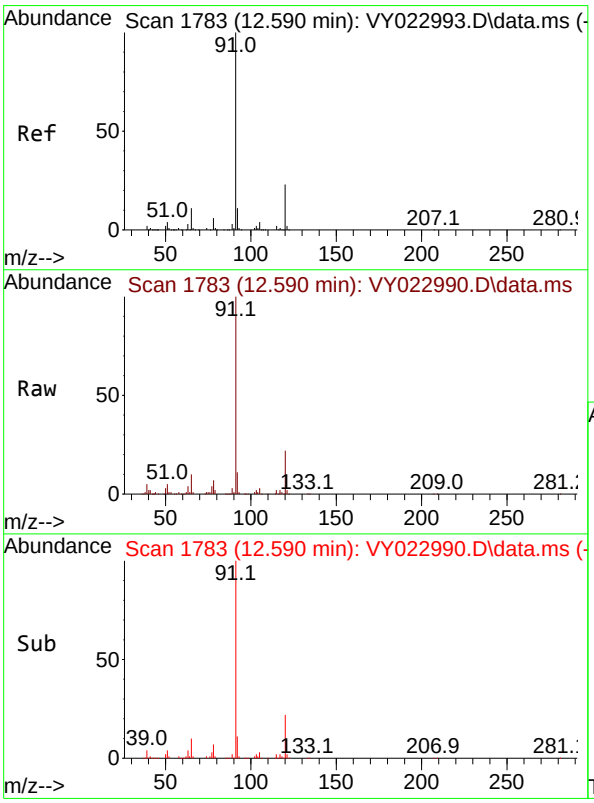
#77
Bromobenzene
Concen: 4.942 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 27477

Ion	Ratio	Lower	Upper
156	100		
77	184.8	92.0	276.1
158	97.7	48.6	145.9

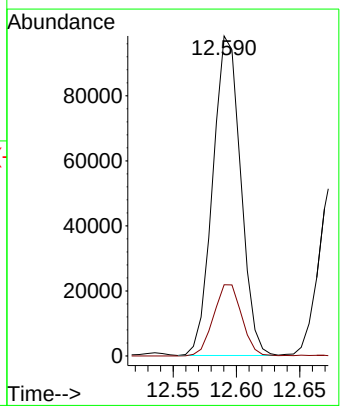


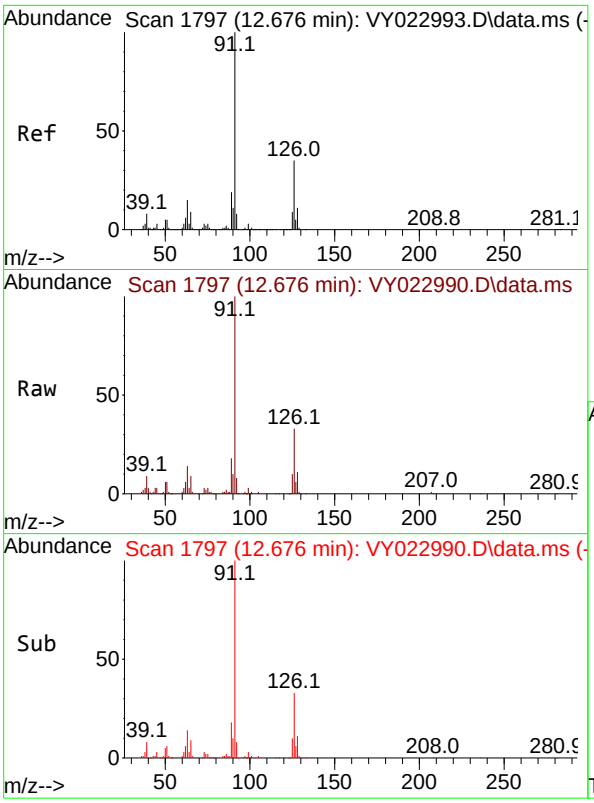


#78
n-propylbenzene
Concen: 4.939 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 91 Resp: 150755

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8



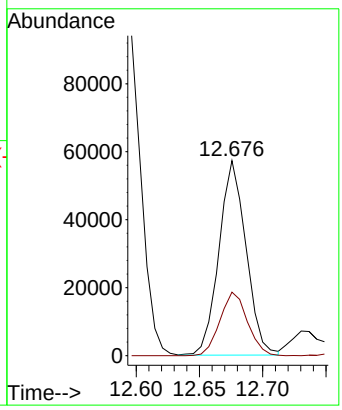


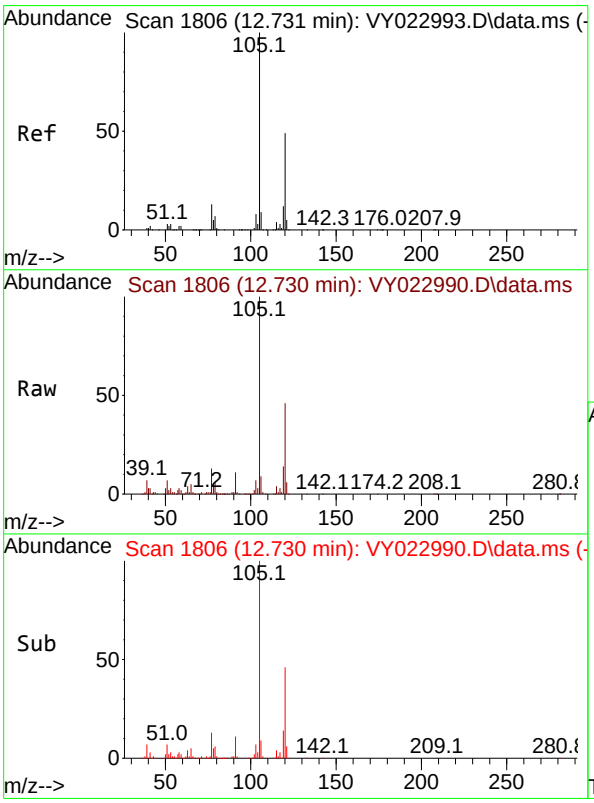
#79
2-Chlorotoluene
Concen: 4.965 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 85237

Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.0	50.9

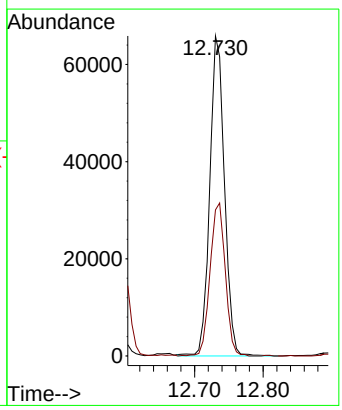


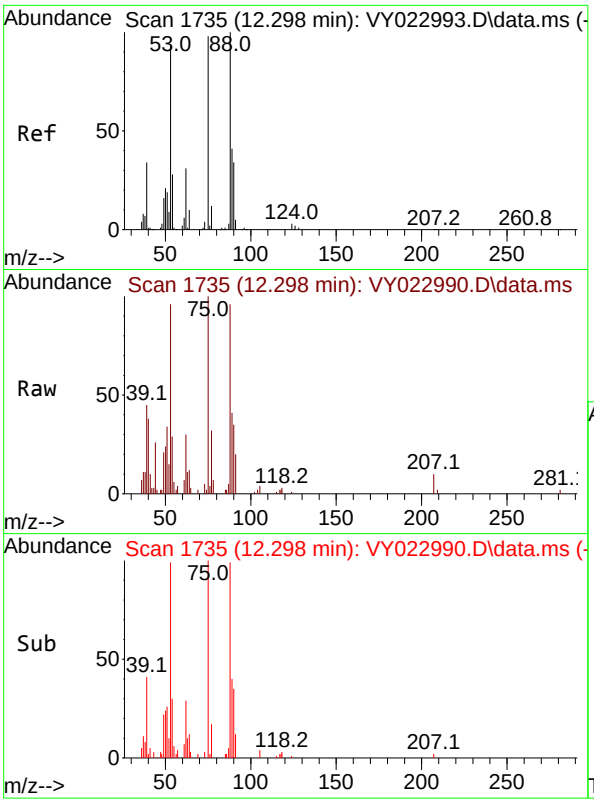


#80
1,3,5-Trimethylbenzene
Concen: 4.852 ug/l
RT: 12.730 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:105 Resp: 98096

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.6	73.8



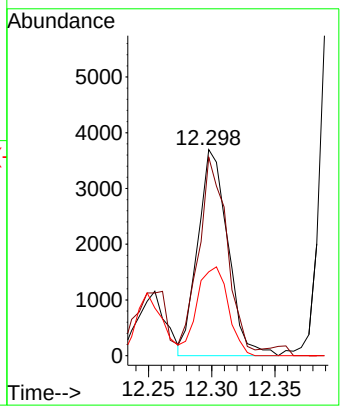


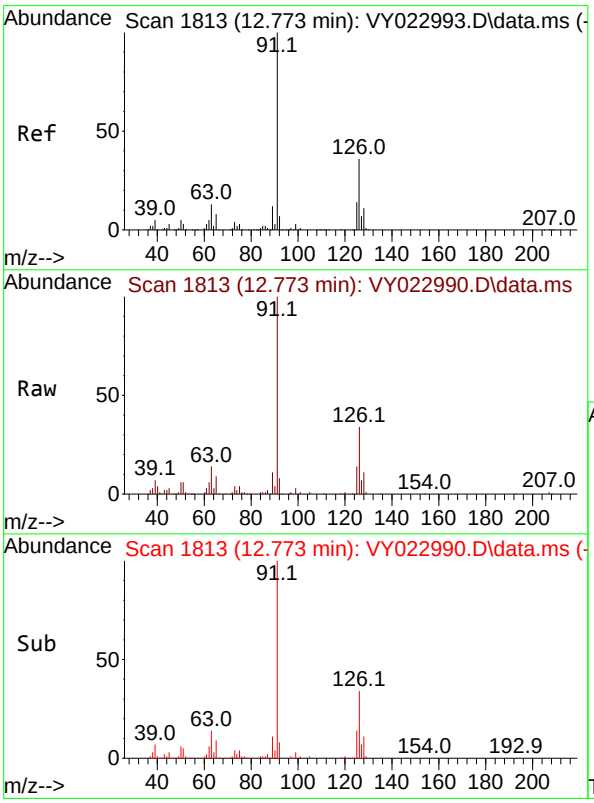
#81
trans-1,4-Dichloro-2-butene
Concen: 4.843 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 6126

Ion	Ratio	Lower	Upper
75	100		
53	91.8	76.1	114.1
89	44.8	36.1	54.1

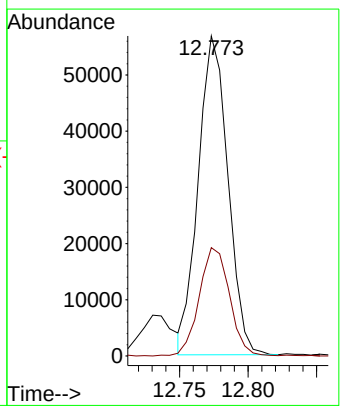


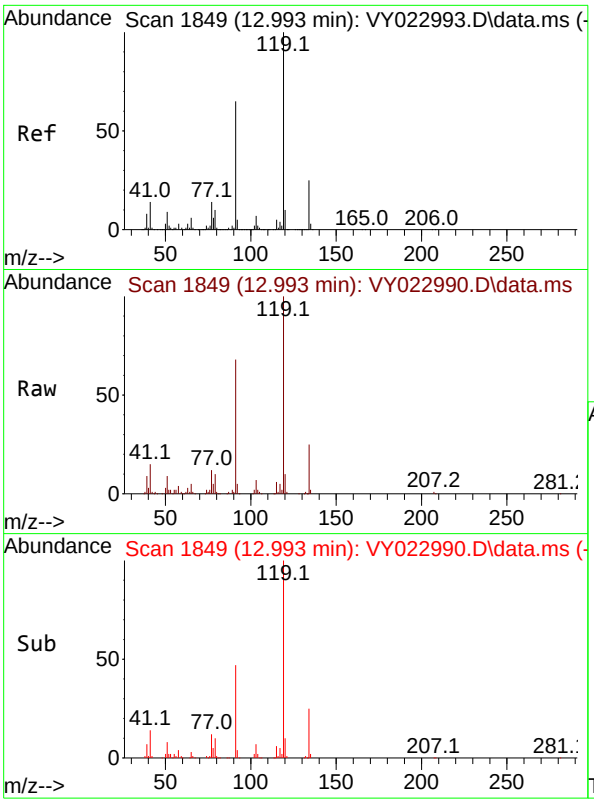


#82
4-Chlorotoluene
Concen: 4.935 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 91 Resp: 85449

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.2	51.5



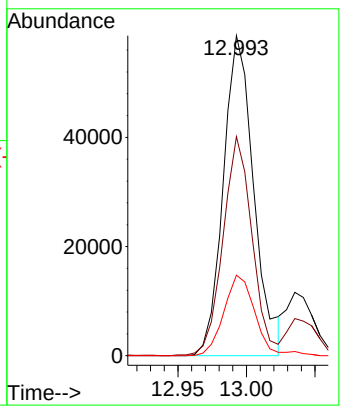


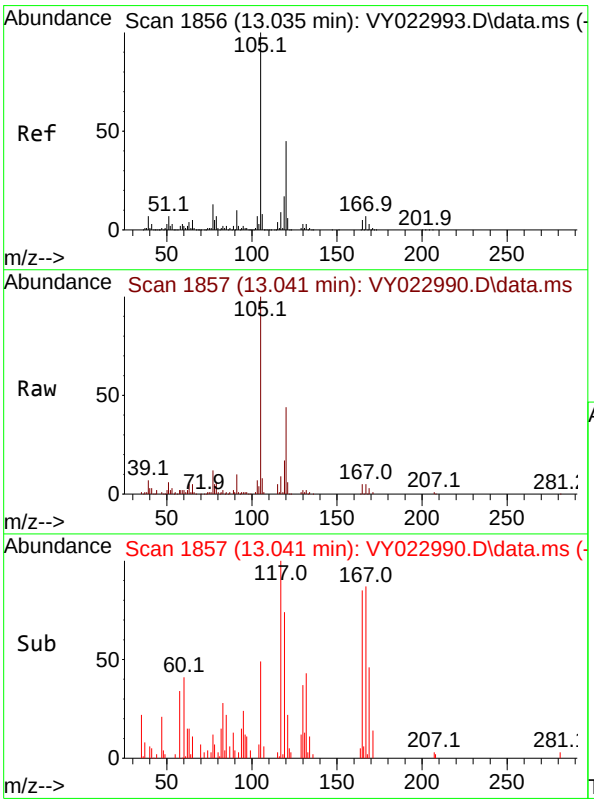
#83
tert-Butylbenzene
Concen: 4.961 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 90600

Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.0	96.2
134	25.8	12.6	37.6

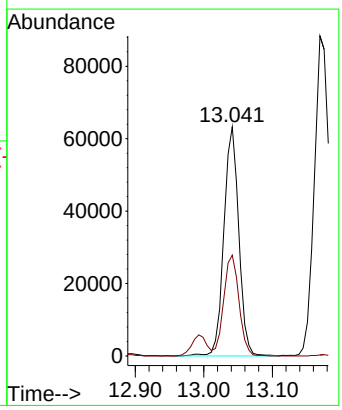


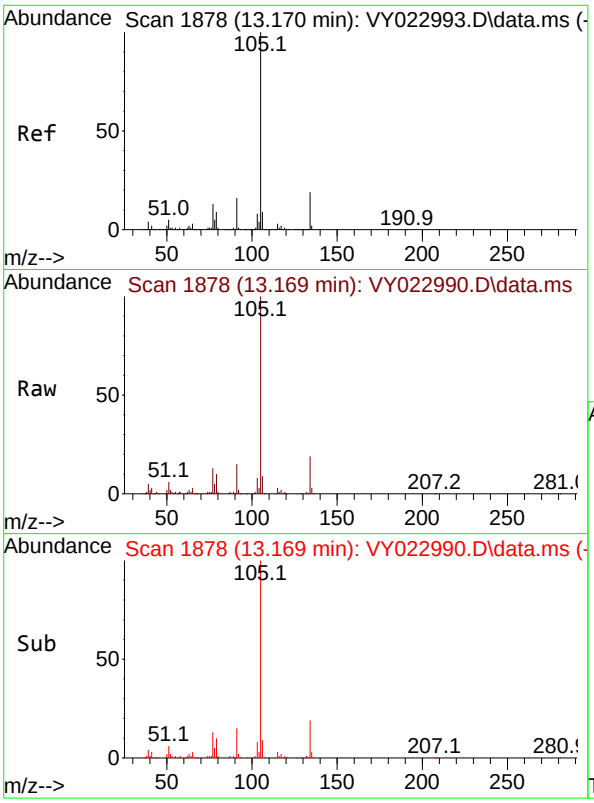


#84
1,2,4-Trimethylbenzene
Concen: 4.782 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:105 Resp: 95160

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8



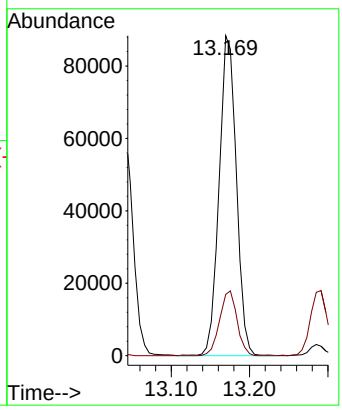


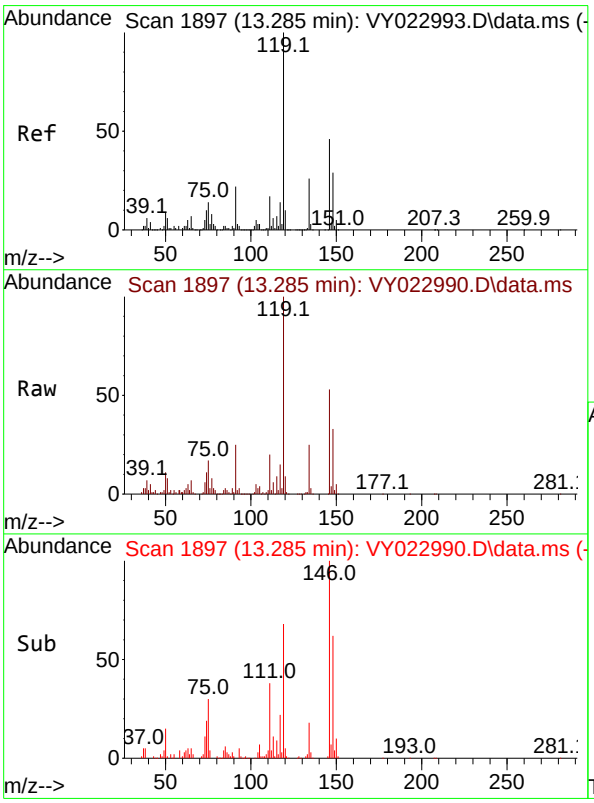
#85
sec-Butylbenzene
Concen: 4.953 ug/l
RT: 13.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 135535

Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.5

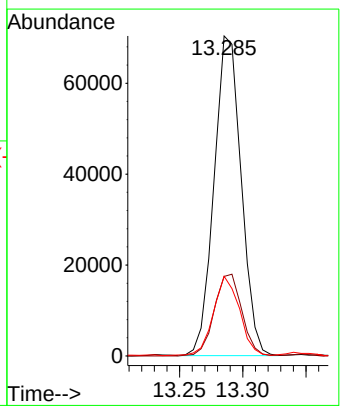


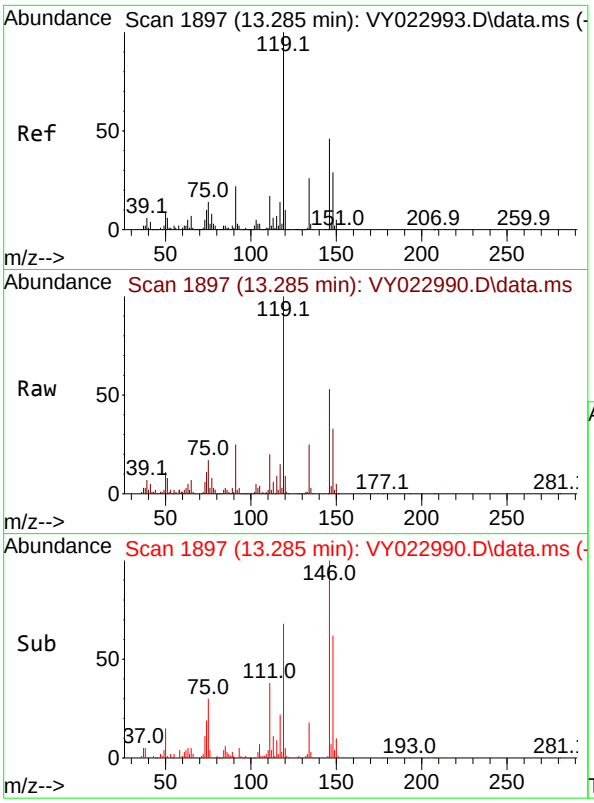


#86
p-Isopropyltoluene
Concen: 4.717 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:119 Resp: 104828

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.1	39.1
91	23.8	11.4	34.1



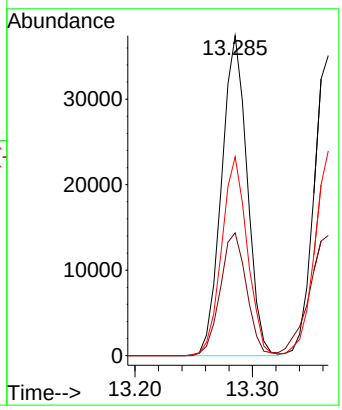


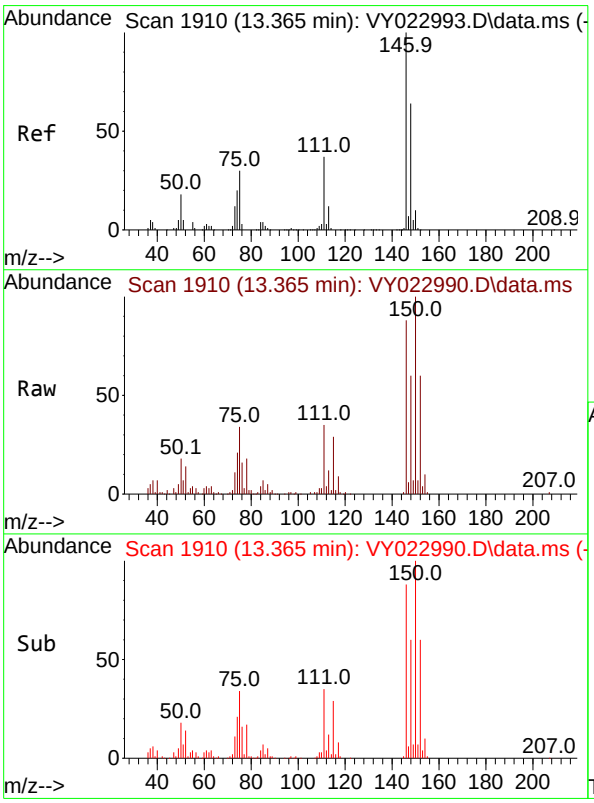
#87
1,3-Dichlorobenzene
Concen: 5.043 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 56578

Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.8	59.3
148	62.5	31.6	94.8

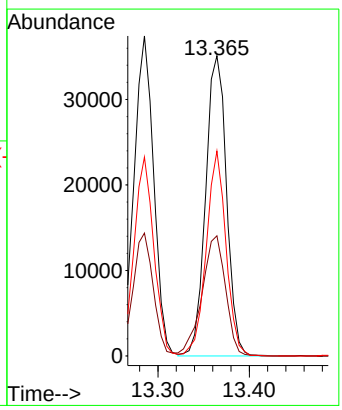


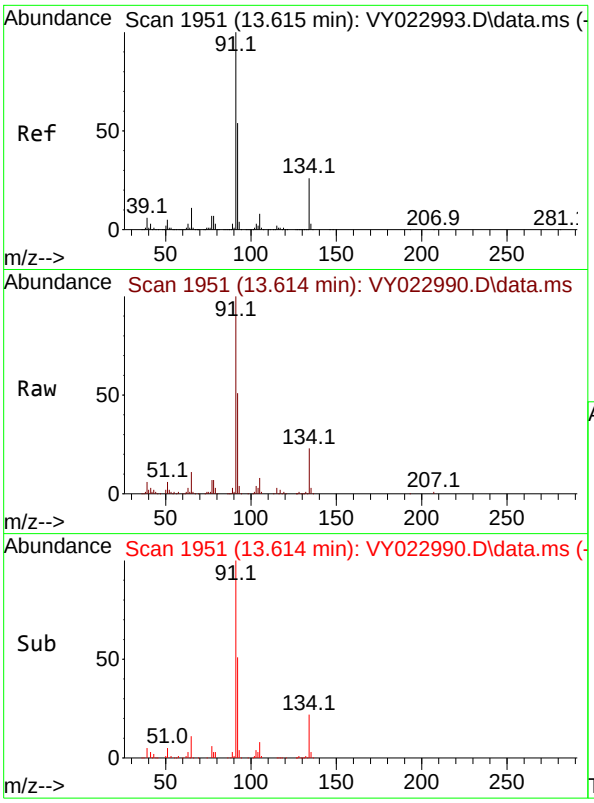


#88
1,4-Dichlorobenzene
Concen: 5.121 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:146 Resp: 55584

Ion	Ratio	Lower	Upper
146	100		
111	45.7	19.2	57.6
148	64.8	31.9	95.5



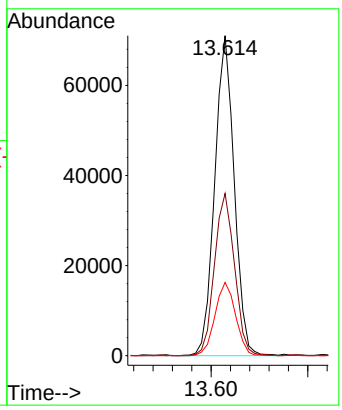


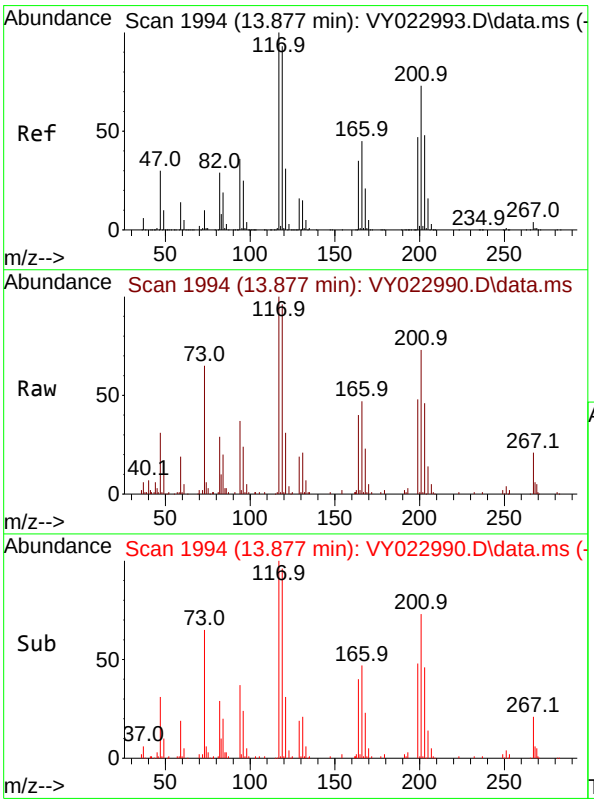
#89
n-Butylbenzene
Concen: 4.850 ug/l
RT: 13.614 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 99472

Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.6	79.7
134	24.2	12.6	37.6

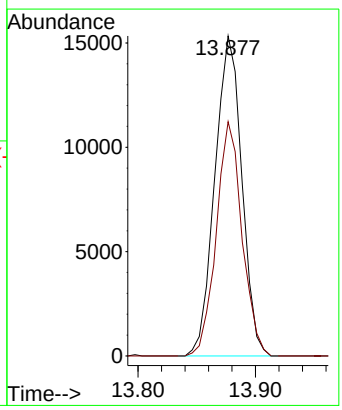


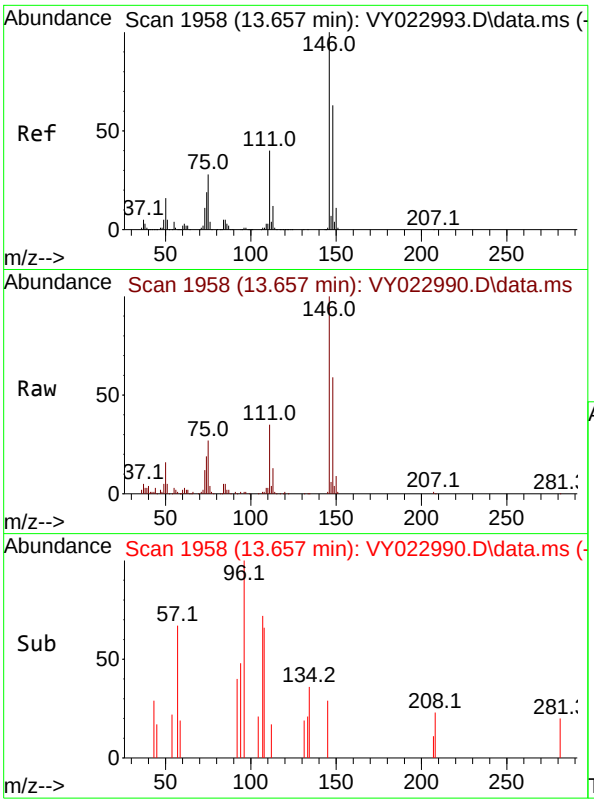


#90
Hexachloroethane
Concen: 5.310 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:117 Resp: 24435

Ion	Ratio	Lower	Upper
117	100		
201	69.9	36.1	108.5



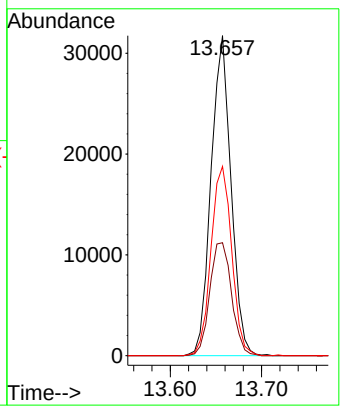


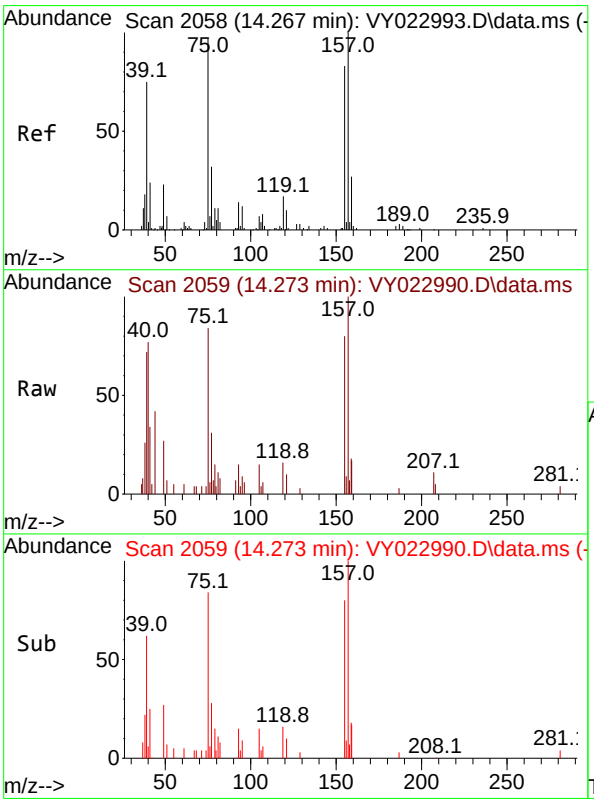
#91
1,2-Dichlorobenzene
Concen: 5.076 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 48036

Ion	Ratio	Lower	Upper
146	100		
111	38.7	20.3	61.0
148	61.6	32.0	96.2

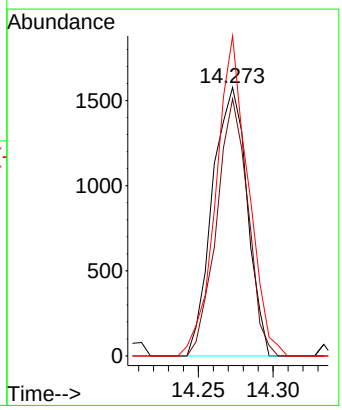


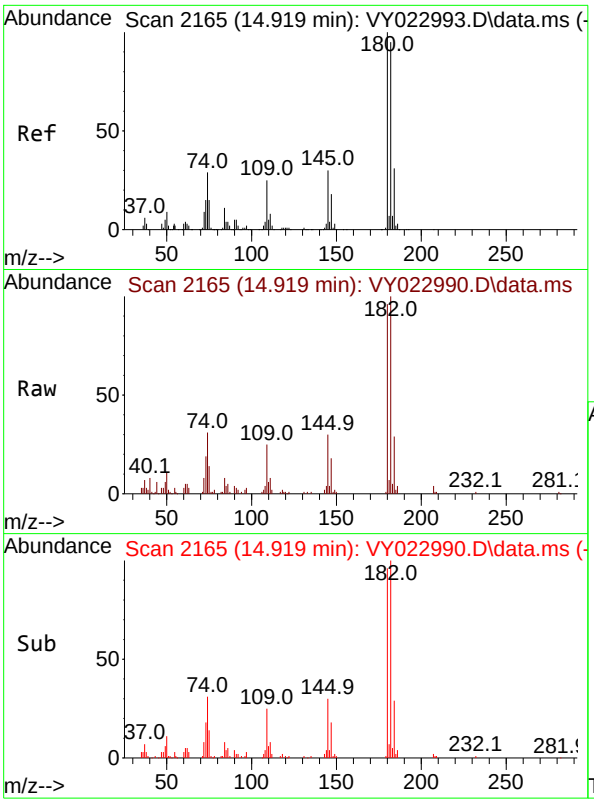


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.626 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion: 75 Resp: 2548

Ion	Ratio	Lower	Upper
75	100		
155	86.1	42.8	128.3
157	110.1	54.3	162.9



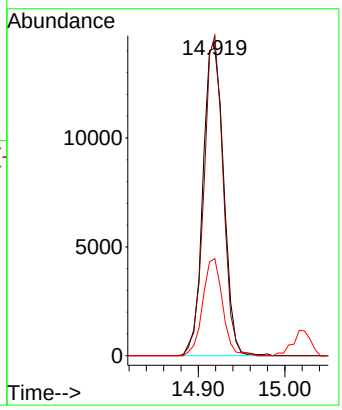


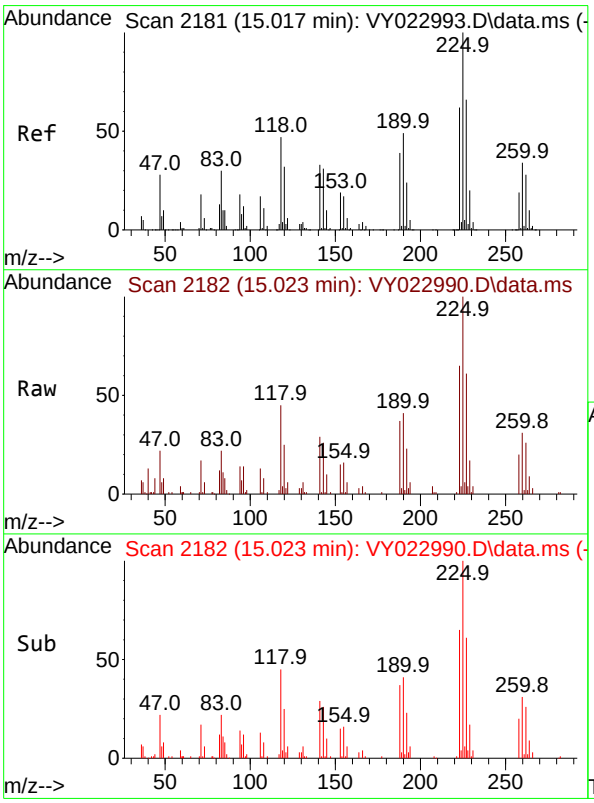
#93
1,2,4-Trichlorobenzene
Concen: 4.732 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 23607

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.5	142.5
145	30.0	14.9	44.9

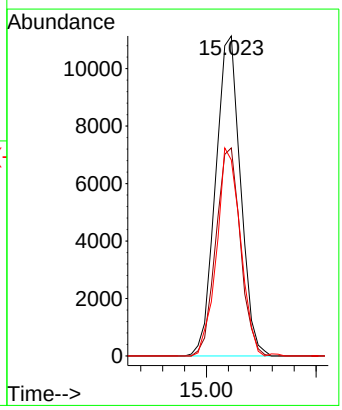


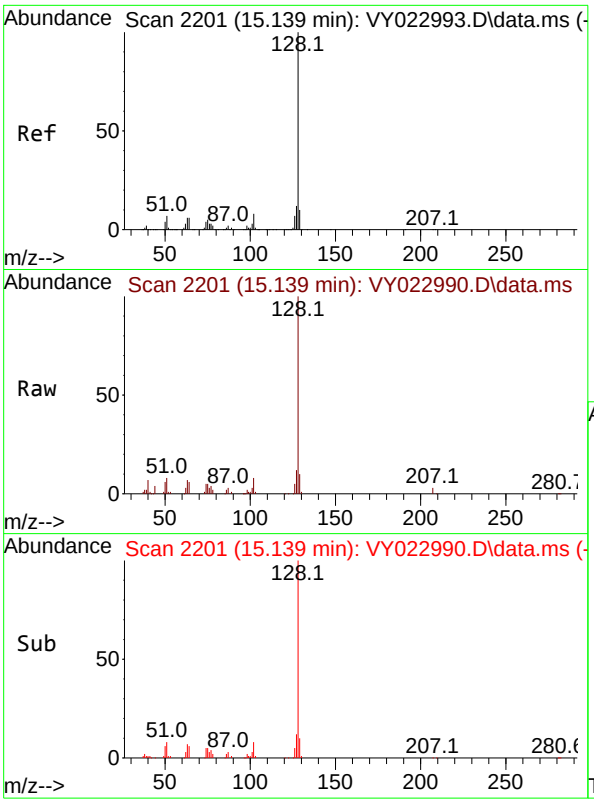


#94
Hexachlorobutadiene
Concen: 5.583 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:225 Resp: 17559

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.4	94.0
227	62.3	32.1	96.5



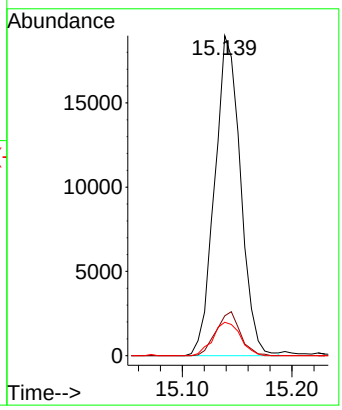


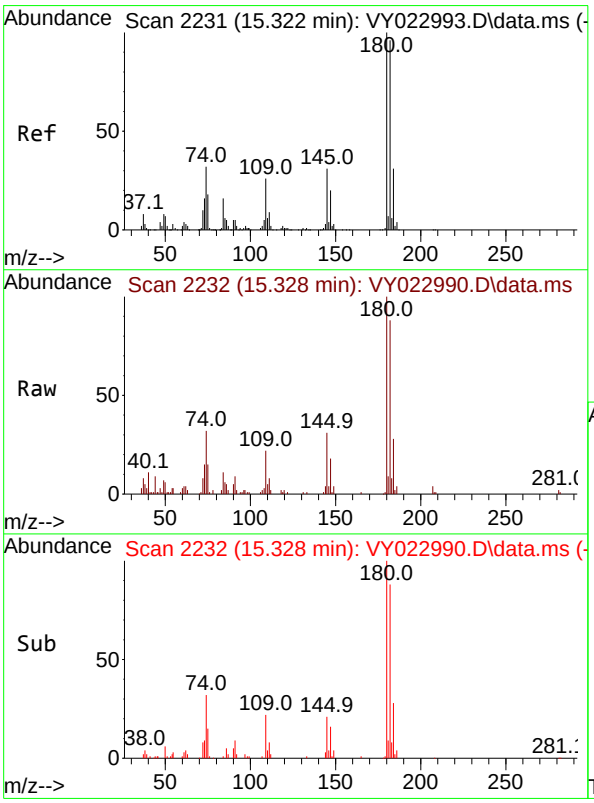
#95
Naphthalene
Concen: 3.885 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 31085

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.1	8.6	12.8

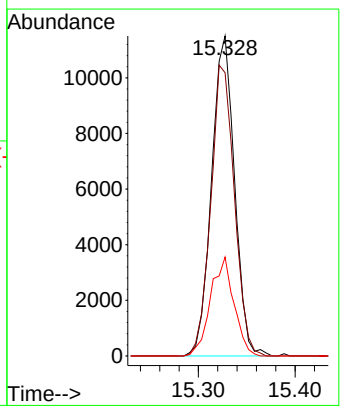




#96
1,2,3-Trichlorobenzene
Concen: 4.606 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY022990.D
Acq: 18 Jul 2025 10:08

Tgt Ion:180 Resp: 18973

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.3	142.0
145	31.5	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	486665	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	793912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	634272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	281482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	46989	9.538	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 19.080%#			
35) Dibromofluoromethane	7.640	113	47940	9.519	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 19.040%#			
50) Toluene-d8	10.103	98	191385	9.583	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 19.160%#			
62) 4-Bromofluorobenzene	12.402	95	56048	8.915	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 17.840%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	44400	10.745	ug/l	97
3) Chloromethane	2.068	50	72344	10.296	ug/l	98
4) Vinyl Chloride	2.202	62	91411	10.269	ug/l	100
5) Bromomethane	2.592	94	64771	10.082	ug/l	98
6) Chloroethane	2.733	64	61053	10.269	ug/l	98
7) Trichlorofluoromethane	3.050	101	106798	10.335	ug/l	97
8) Diethyl Ether	3.452	74	26530	9.809	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	55150	10.159	ug/l	98
10) Methyl Iodide	4.007	142	52773	9.358	ug/l	97
11) Tert butyl alcohol	4.848	59	14081	47.002	ug/l	96
12) 1,1-Dichloroethene	3.787	96	52948	10.239	ug/l	95
13) Acrolein	3.653	56	8925	66.092	ug/l	93
14) Allyl chloride	4.379	41	75202	9.545	ug/l	99
15) Acrylonitrile	5.061	53	43540	42.502	ug/l	97
16) Acetone	3.867	43	44190	49.482	ug/l	91
17) Carbon Disulfide	4.104	76	158034	10.083	ug/l	99
18) Methyl Acetate	4.391	43	24878	8.228	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	111411	8.982	ug/l	95
20) Methylene Chloride	4.616	84	101278	9.348	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	55587	9.657	ug/l	91
22) Diisopropyl ether	6.019	45	155004	9.274	ug/l	95
23) Vinyl Acetate	5.958	43	373434	44.343	ug/l	100
24) 1,1-Dichloroethane	5.915	63	103495	9.859	ug/l	98
25) 2-Butanone	6.890	43	57204	44.650	ug/l	97
26) 2,2-Dichloropropane	6.878	77	90050	9.787	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	63030	9.501	ug/l	99
28) Bromochloromethane	7.244	49	38094	9.356	ug/l	98
29) Tetrahydrofuran	7.262	42	33741	41.597	ug/l	99
30) Chloroform	7.421	83	104738	9.890	ug/l	91
31) Cyclohexane	7.701	56	98453	10.037	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	94990	9.886	ug/l	99
36) 1,1-Dichloropropene	7.835	75	76035	9.585	ug/l	99
37) Ethyl Acetate	6.982	43	26025	8.834	ug/l	99
38) Carbon Tetrachloride	7.817	117	84148	9.764	ug/l	99
39) Methylcyclohexane	9.103	83	96640	9.412	ug/l	96
40) Benzene	8.079	78	225702	9.450	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	12522	8.052	ug/l		92
42) 1,2-Dichloroethane	8.158	62	54251	9.130	ug/l		98
43) Isopropyl Acetate	8.195	43	49891	8.525	ug/l	#	85
44) Trichloroethene	8.866	130	59337	9.672	ug/l		99
45) 1,2-Dichloropropane	9.140	63	51870	9.300	ug/l		97
46) Dibromomethane	9.231	93	25659	8.900	ug/l		97
47) Bromodichloromethane	9.420	83	73468	9.219	ug/l		96
48) Methyl methacrylate	9.219	41	23583	8.347	ug/l		97
49) 1,4-Dioxane	9.225	88	5158	169.729	ug/l		97
51) 4-Methyl-2-Pentanone	10.000	43	123354	41.528	ug/l		98
52) Toluene	10.170	92	137786	9.279	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	59746	8.734	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	73674	8.935	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	33848	8.933	ug/l		95
56) Ethyl methacrylate	10.439	69	38473	8.133	ug/l		97
57) 1,3-Dichloropropane	10.713	76	58102	8.876	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	92984	40.157	ug/l		98
59) 2-Hexanone	10.756	43	79059	40.492	ug/l		100
60) Dibromochloromethane	10.908	129	43711	8.809	ug/l		99
61) 1,2-Dibromoethane	11.012	107	30636	8.903	ug/l		99
64) Tetrachloroethene	10.646	164	68560	10.575	ug/l		99
65) Chlorobenzene	11.438	112	146007	9.755	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.512	131	48542	9.509	ug/l		100
67) Ethyl Benzene	11.518	91	247552	9.331	ug/l		100
68) m/p-Xylenes	11.627	106	186725	18.350	ug/l		99
69) o-Xylene	11.950	106	86193	9.127	ug/l		100
70) Styrene	11.969	104	137633	8.898	ug/l		99
71) Bromoform	12.127	173	23193	8.949	ug/l	#	98
73) Isopropylbenzene	12.249	105	229285	9.608	ug/l		100
74) N-amyl acetate	12.066	43	39921	8.873	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.499	83	31610	9.153	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	45505	12.845	ug/l	#	100
77) Bromobenzene	12.530	156	48601	9.390	ug/l		98
78) n-propylbenzene	12.591	91	273348	9.618	ug/l		100
79) 2-Chlorotoluene	12.676	91	154267	9.652	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	178551	9.486	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	10642	9.037	ug/l		97
82) 4-Chlorotoluene	12.774	91	154131	9.561	ug/l		98
83) tert-Butylbenzene	12.993	119	157733	9.277	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	172262	9.297	ug/l		100
85) sec-Butylbenzene	13.170	105	242143	9.504	ug/l		100
86) p-Isopropyltoluene	13.286	119	190964	9.229	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	97707	9.354	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	96650	9.564	ug/l		97
89) n-Butylbenzene	13.615	91	176599	9.249	ug/l		99
90) Hexachloroethane	13.877	117	40137	9.369	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	81887	9.294	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	4700	9.166	ug/l		95
93) 1,2,4-Trichlorobenzene	14.913	180	40871	8.800	ug/l		99
94) Hexachlorobutadiene	15.017	225	27714	9.465	ug/l		98
95) Naphthalene	15.139	128	59039	7.926	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	33923	8.846	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

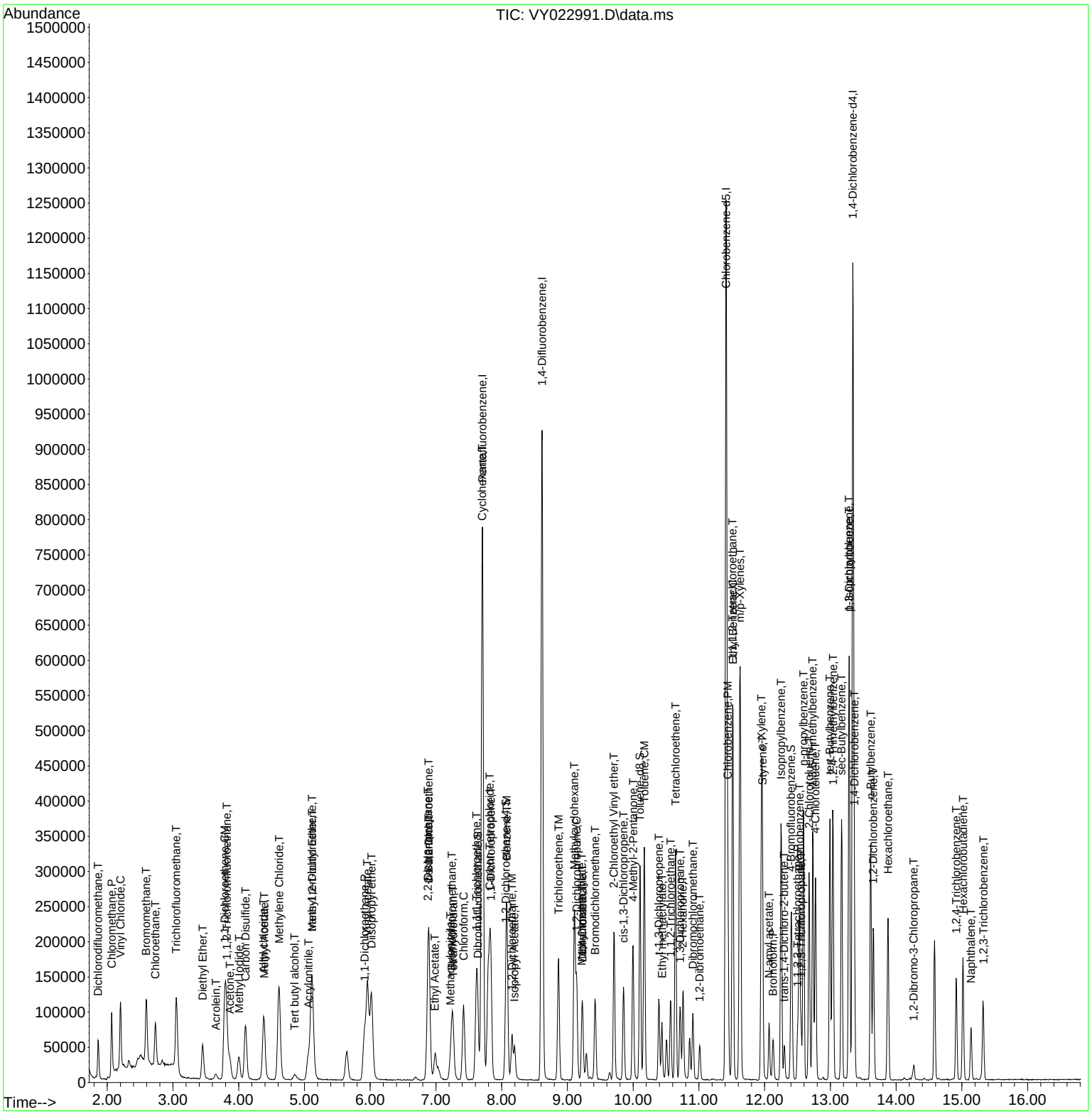
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

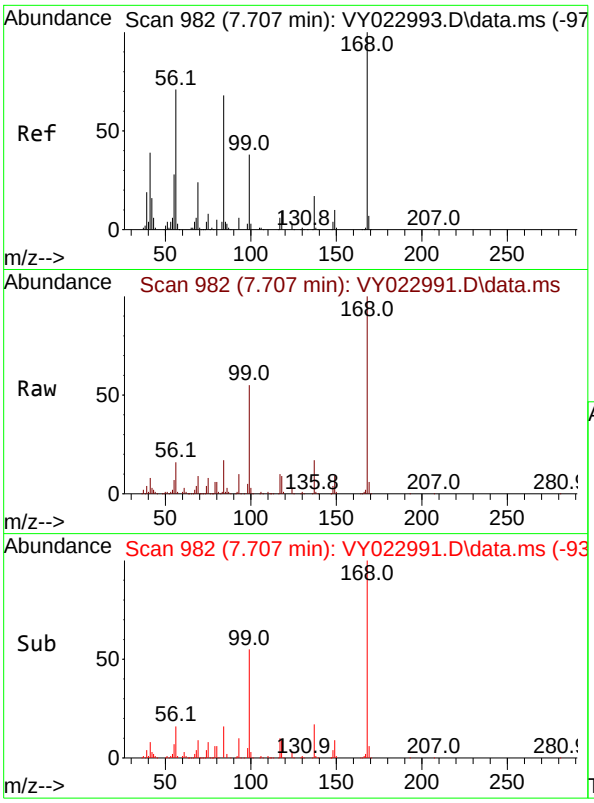
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022991.D
Acq On : 18 Jul 2025 10:54
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Jul 19 01:30:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration



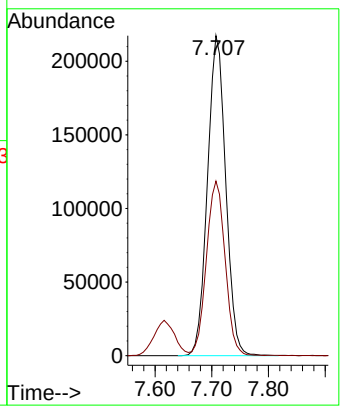


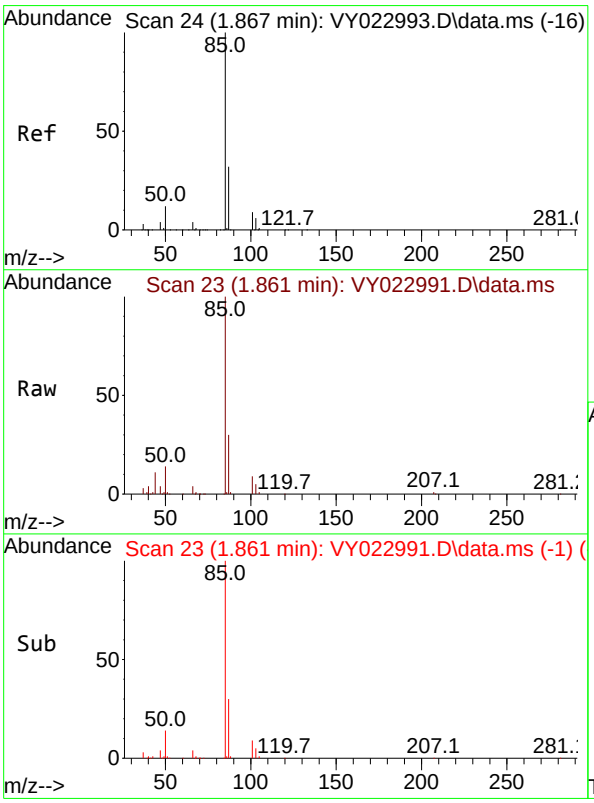
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 486665

Ion	Ratio	Lower	Upper
168	100		
99	54.5	44.4	66.6

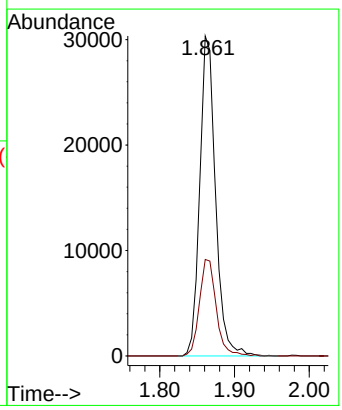


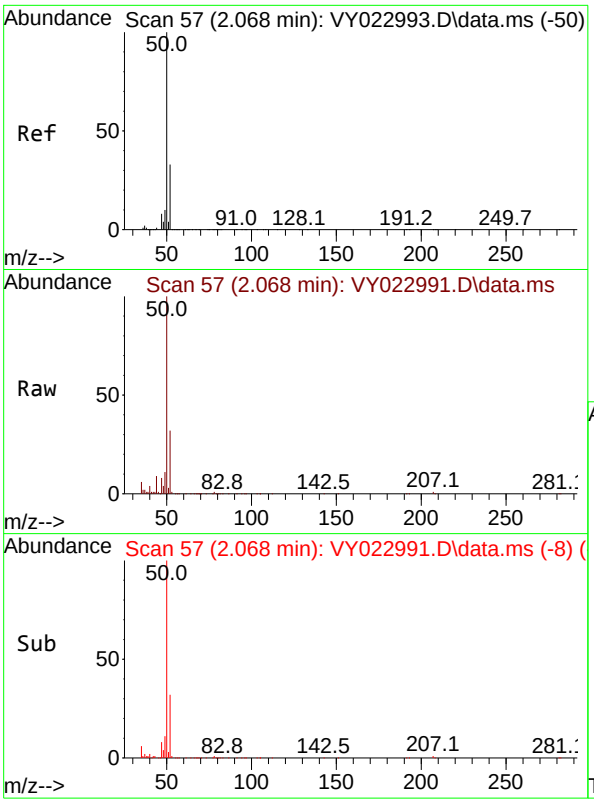


#2
Dichlorodifluoromethane
Concen: 10.745 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 85 Resp: 44400

Ion	Ratio	Lower	Upper
85	100		
87	30.2	16.0	47.9



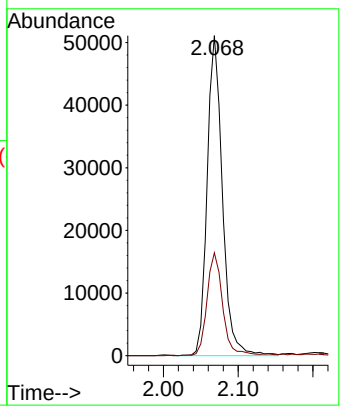


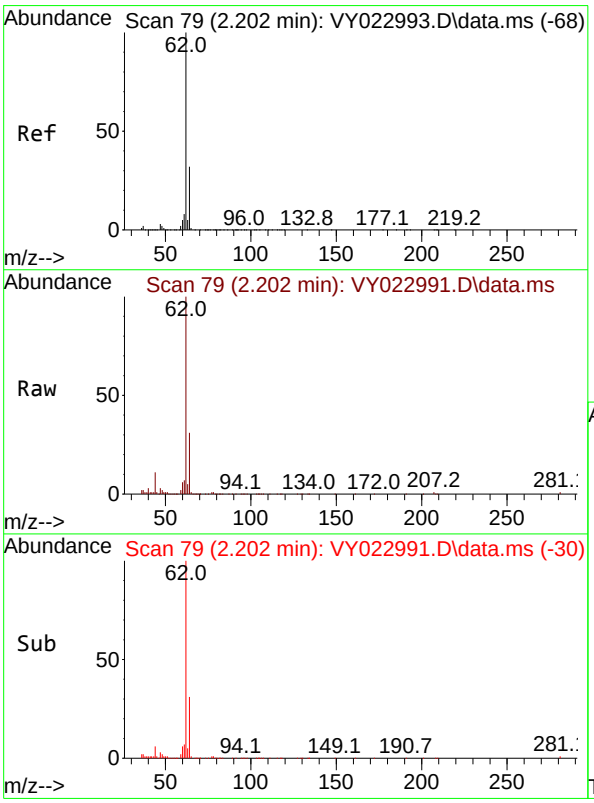
#3
Chloromethane
Concen: 10.296 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 72344

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.6	39.8

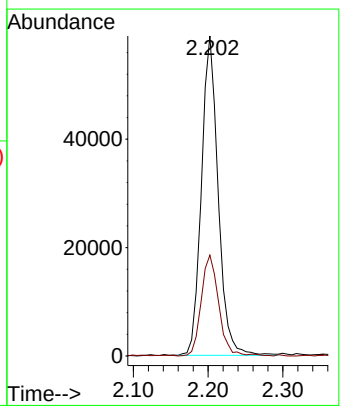


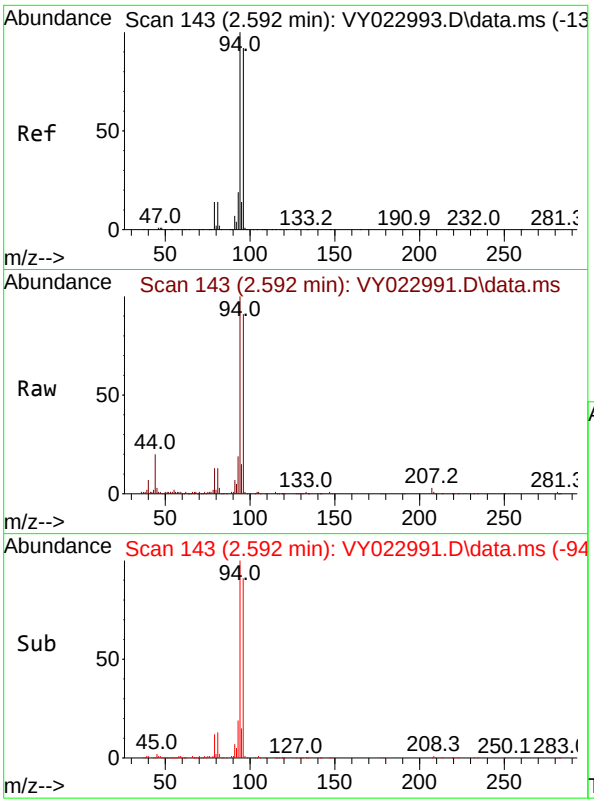


#4
Vinyl Chloride
Concen: 10.269 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 62 Resp: 91411

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.2	37.8



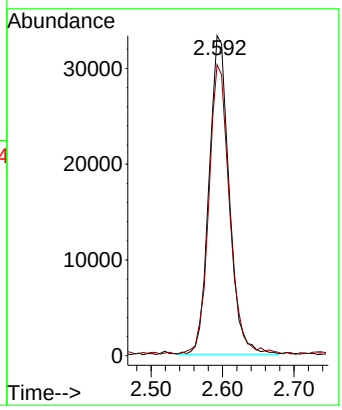


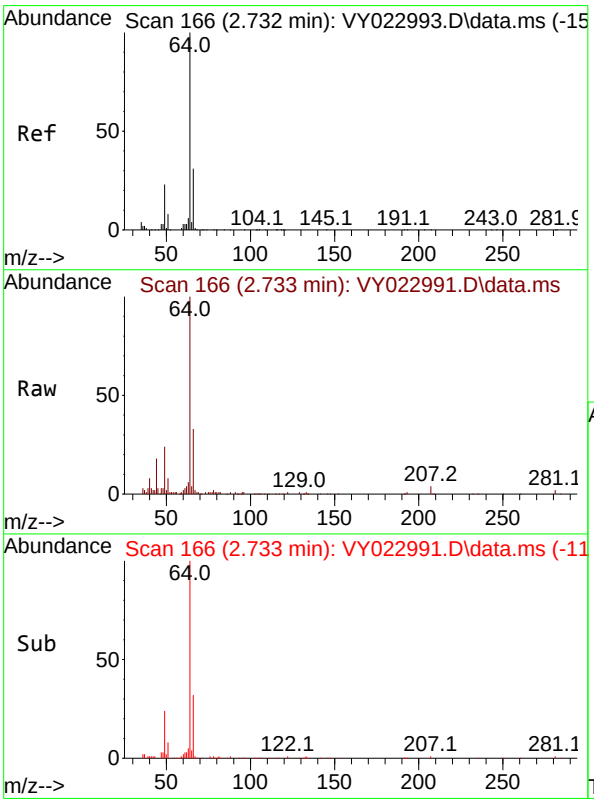
#5
Bromomethane
Concen: 10.082 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 64771

Ion	Ratio	Lower	Upper
94	100		
96	90.6	73.9	110.9

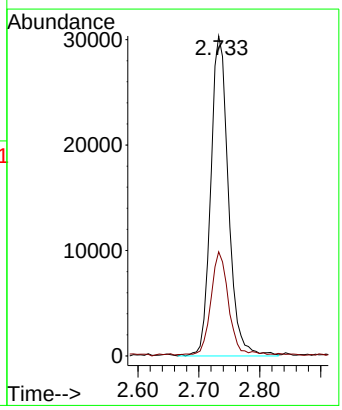


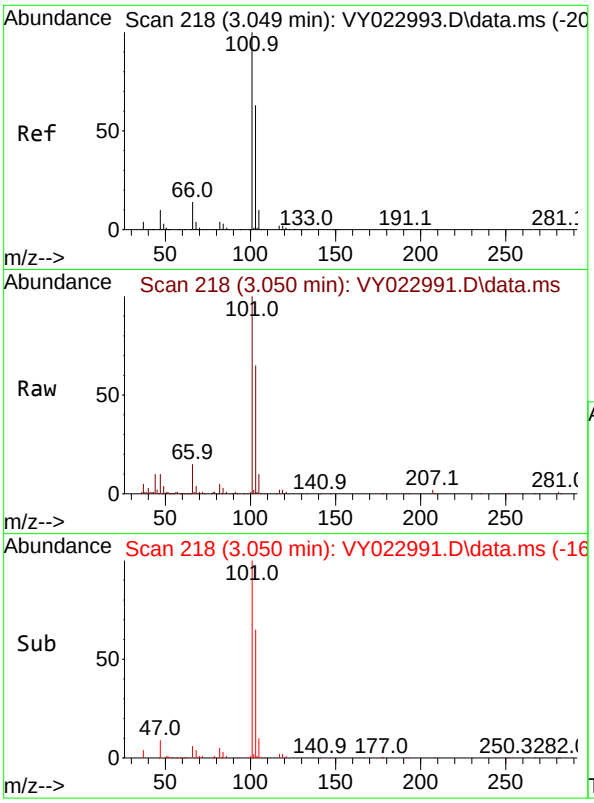


#6
Chloroethane
Concen: 10.269 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 64 Resp: 61053

Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.9	37.3



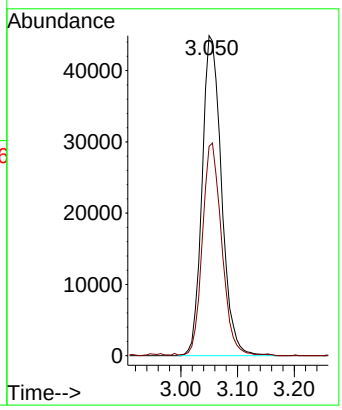


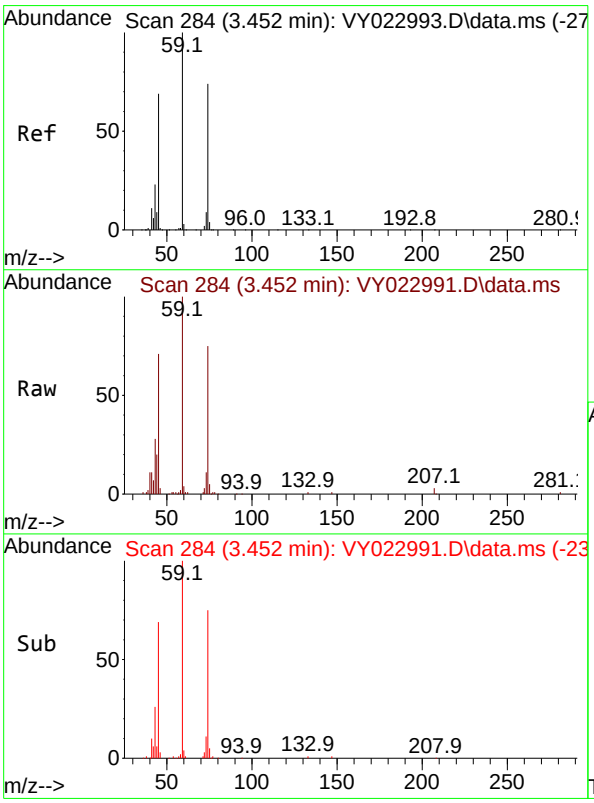
#7
Trichlorofluoromethane
Concen: 10.335 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 106798

Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.7	76.1

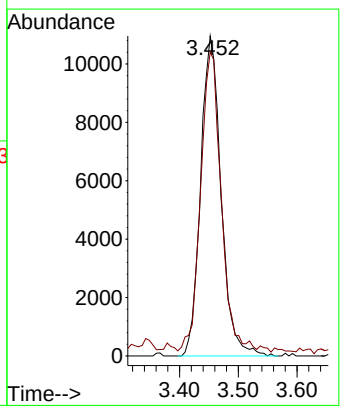


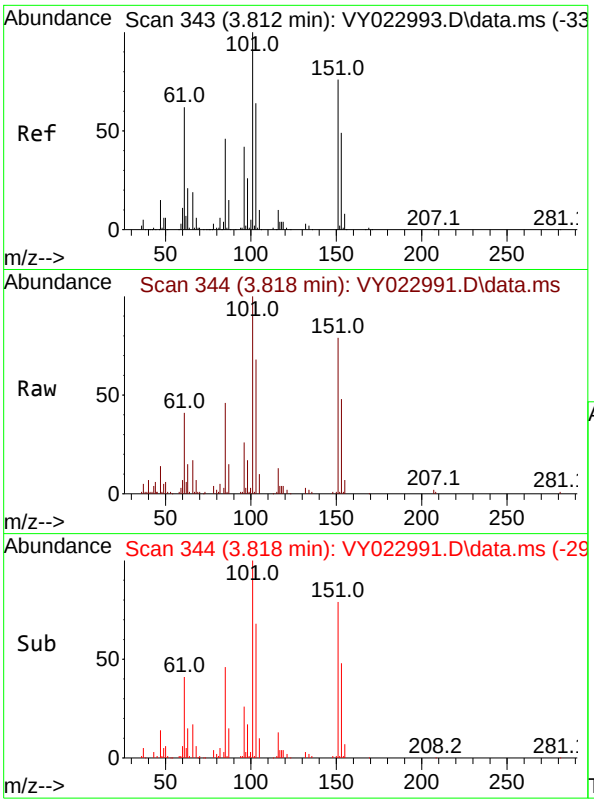


#8
Diethyl Ether
Concen: 9.809 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 74 Resp: 26530

Ion	Ratio	Lower	Upper
74	100		
45	93.0	45.1	135.2



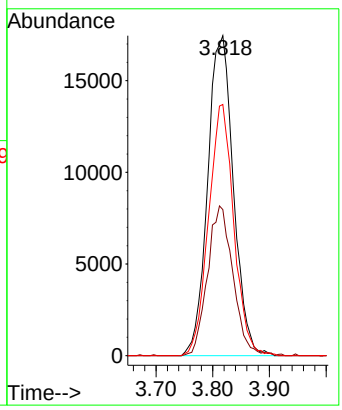


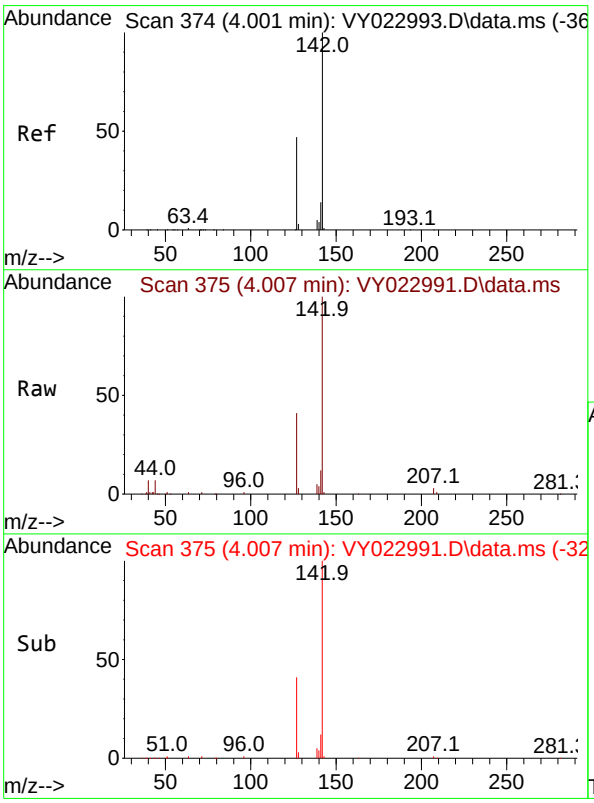
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.159 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 55150

Ion	Ratio	Lower	Upper
101	100		
85	46.3	37.2	55.8
151	76.9	59.7	89.5

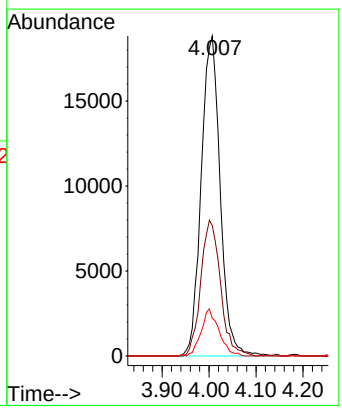


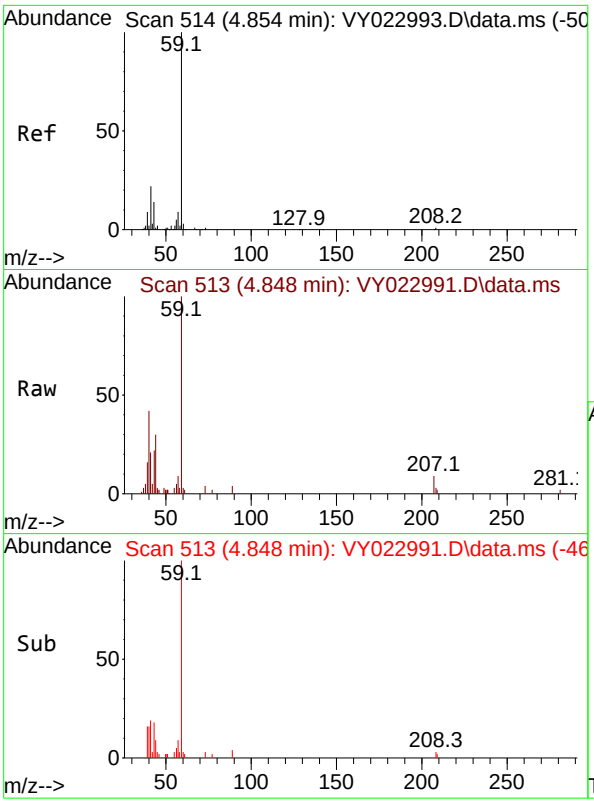


#10
Methyl Iodide
Concen: 9.358 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:142 Resp: 52773

Ion	Ratio	Lower	Upper
142	100		
127	44.0	37.0	55.6
141	13.9	11.4	17.2



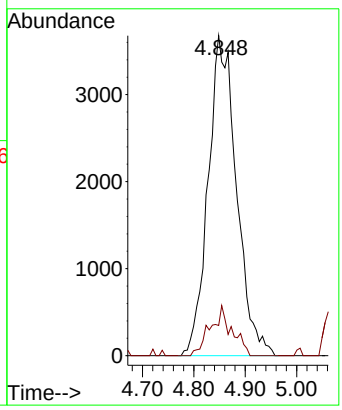


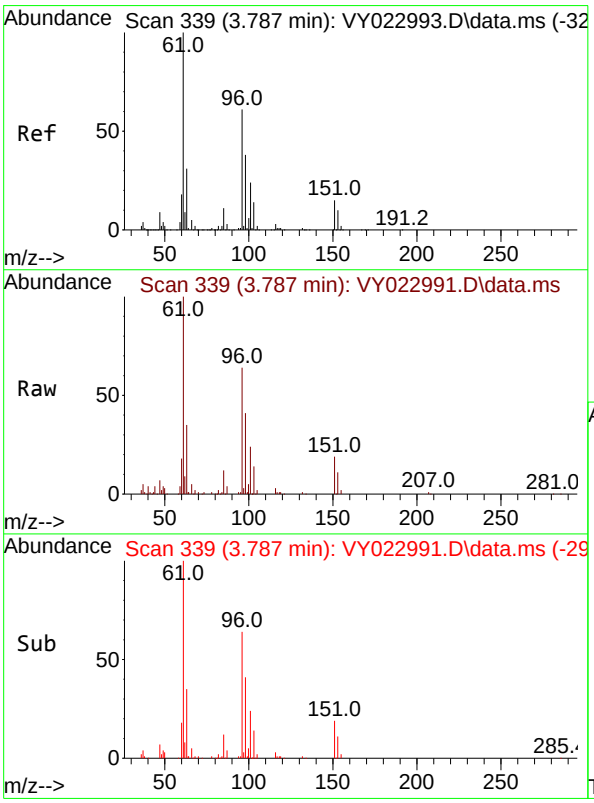
#11
Tert butyl alcohol
Concen: 47.002 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 14081

Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.2	12.2

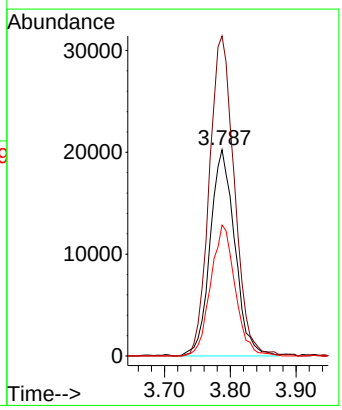


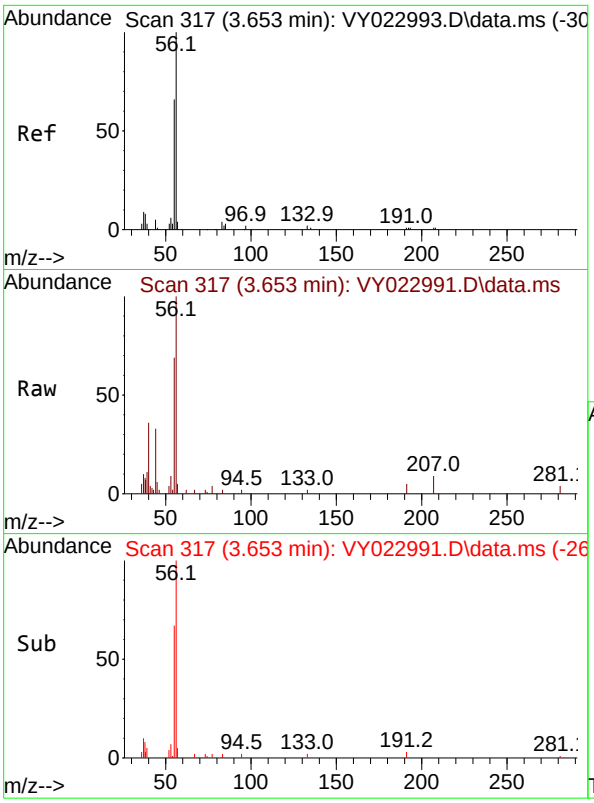


#12
1,1-Dichloroethene
Concen: 10.239 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 96 Resp: 52948

Ion	Ratio	Lower	Upper
96	100		
61	155.2	130.4	195.6
98	63.5	49.6	74.4



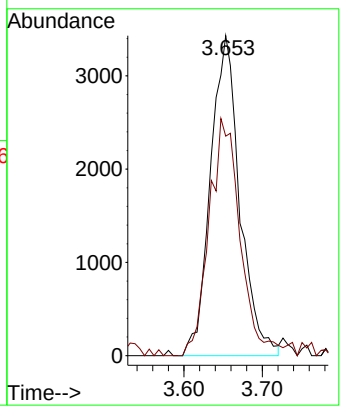


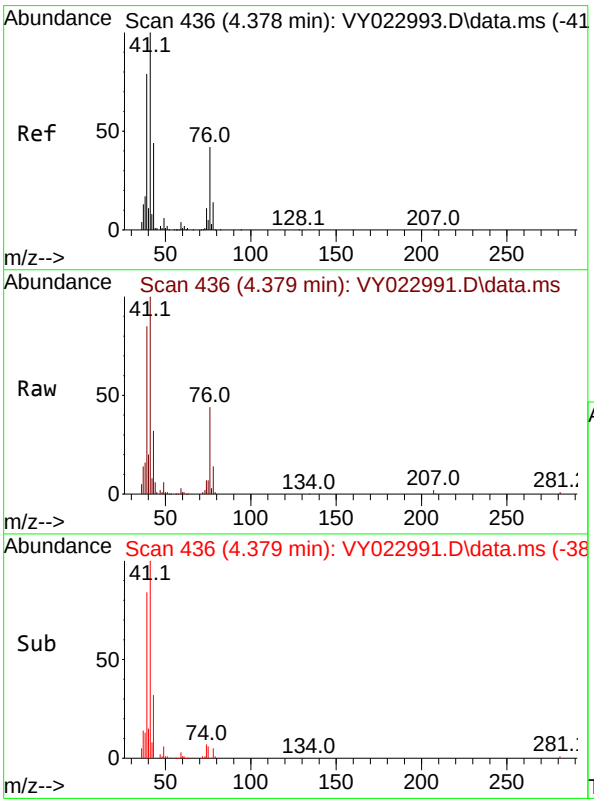
#13
Acrolein
Concen: 66.092 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 8925

Ion	Ratio	Lower	Upper
56	100		
55	78.3	57.8	86.6

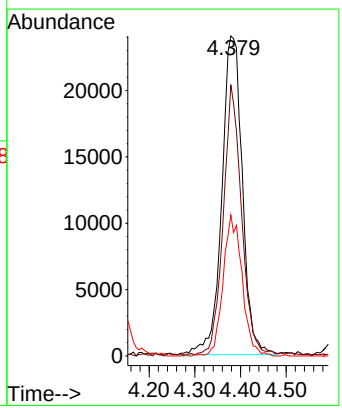


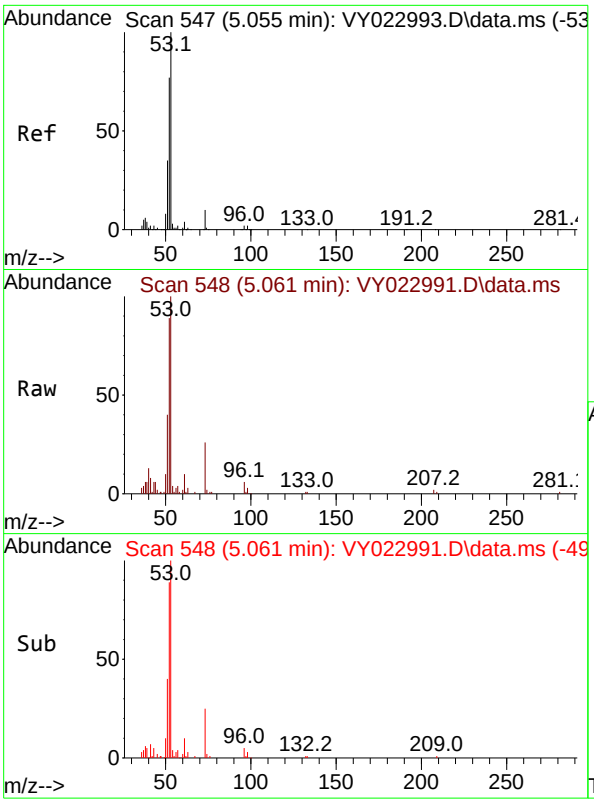


#14
Allyl chloride
Concen: 9.545 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 41 Resp: 75202

Ion	Ratio	Lower	Upper
41	100		
39	75.7	60.1	90.1
76	40.5	32.2	48.4



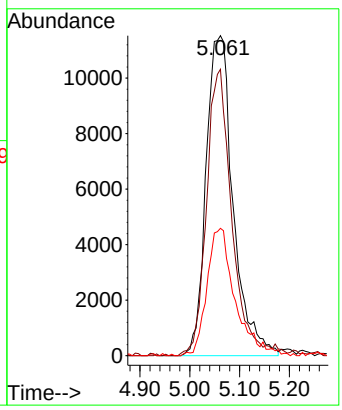


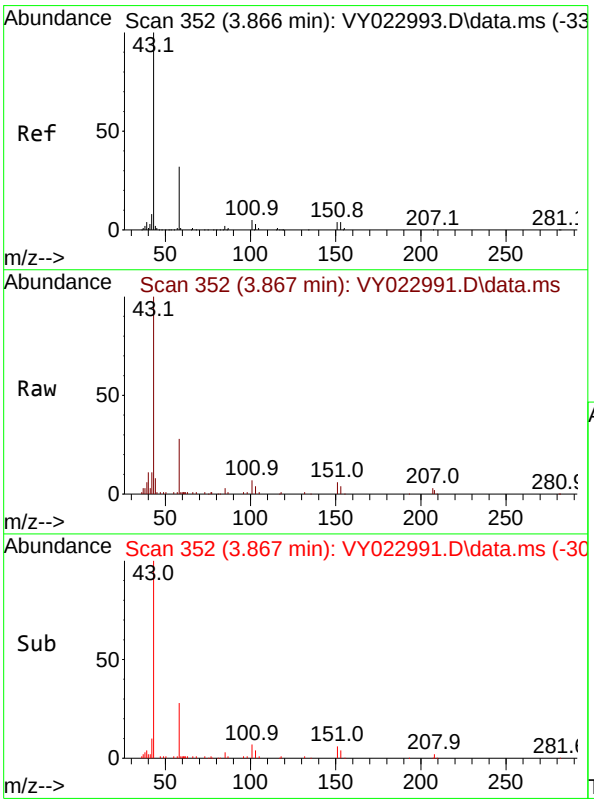
#15
Acrylonitrile
Concen: 42.502 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 43540

Ion	Ratio	Lower	Upper
53	100		
52	82.8	65.2	97.8
51	41.3	30.3	45.5

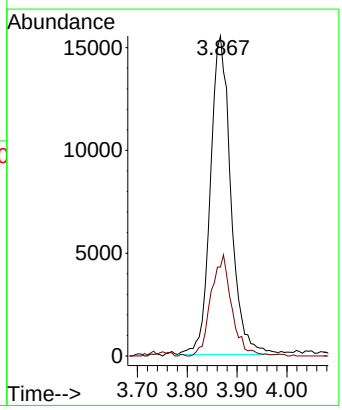


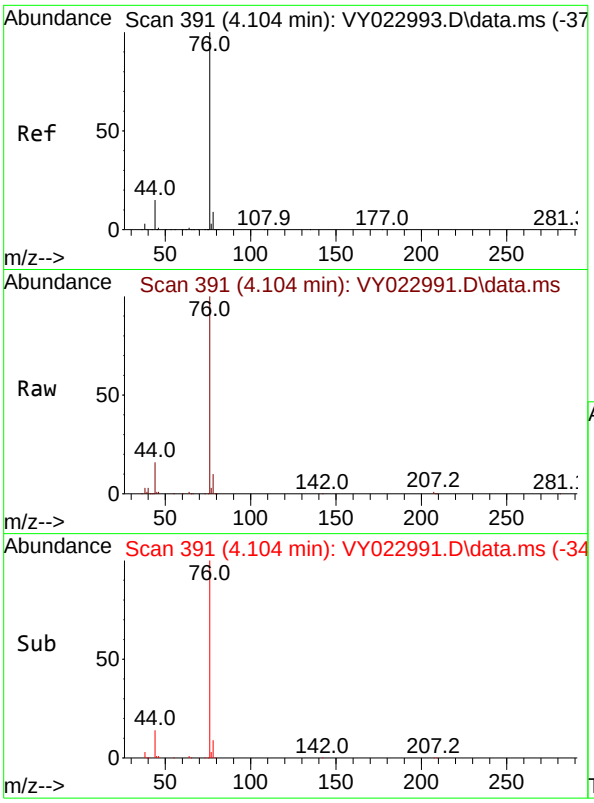


#16
Acetone
Concen: 49.482 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 44190

Ion	Ratio	Lower	Upper
43	100		
58	27.9	26.2	39.4



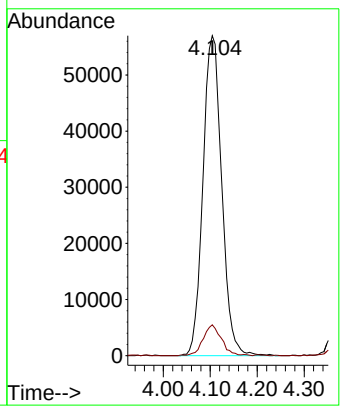


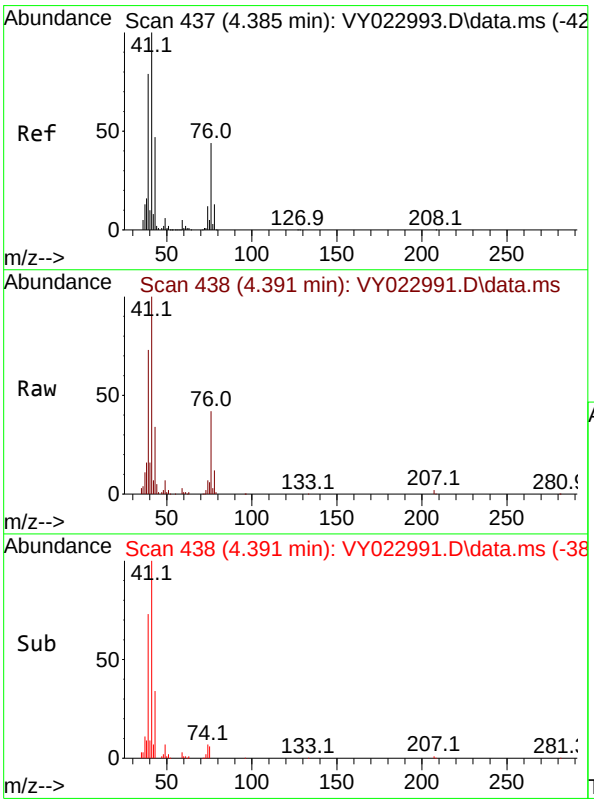
#17
Carbon Disulfide
Concen: 10.083 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 158034

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.4	11.0

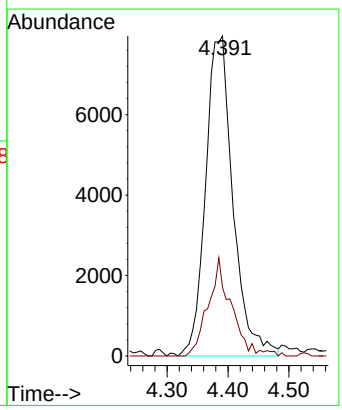


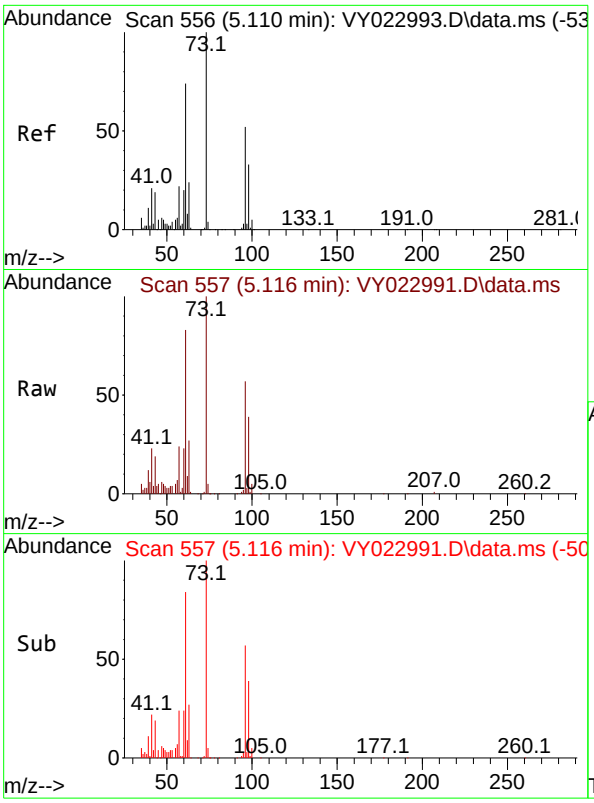


#18
Methyl Acetate
Concen: 8.228 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 24878

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.1	30.1



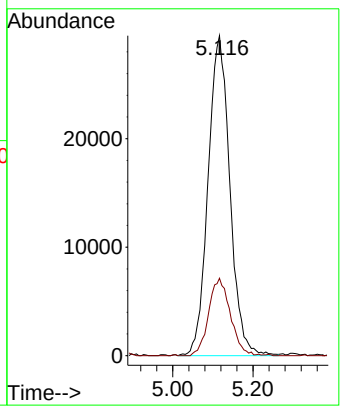


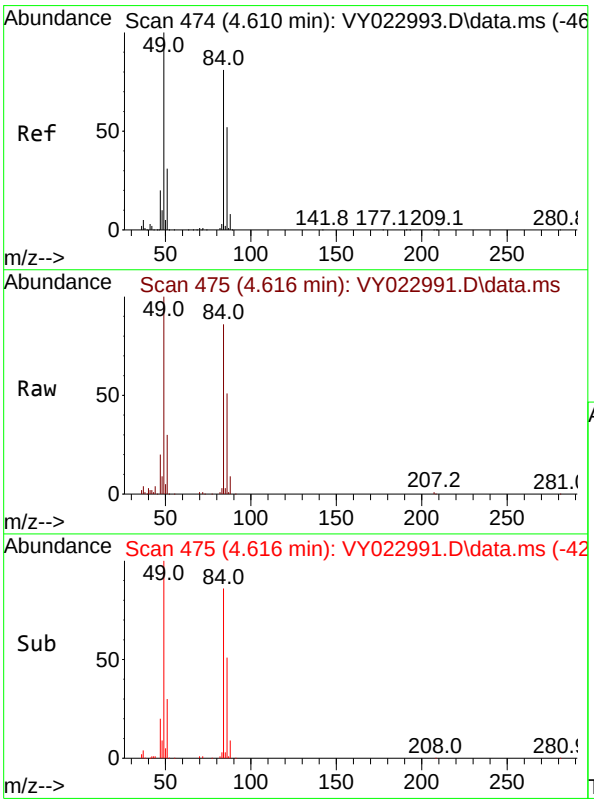
#19
Methyl tert-butyl Ether
Concen: 8.982 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 111411

Ion	Ratio	Lower	Upper
73	100		
57	24.2	17.4	26.2

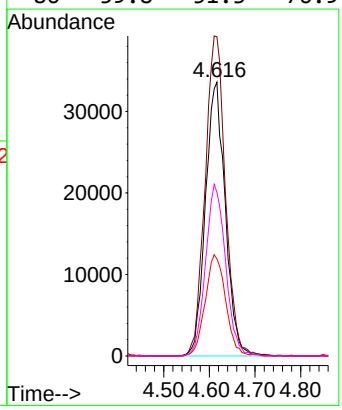


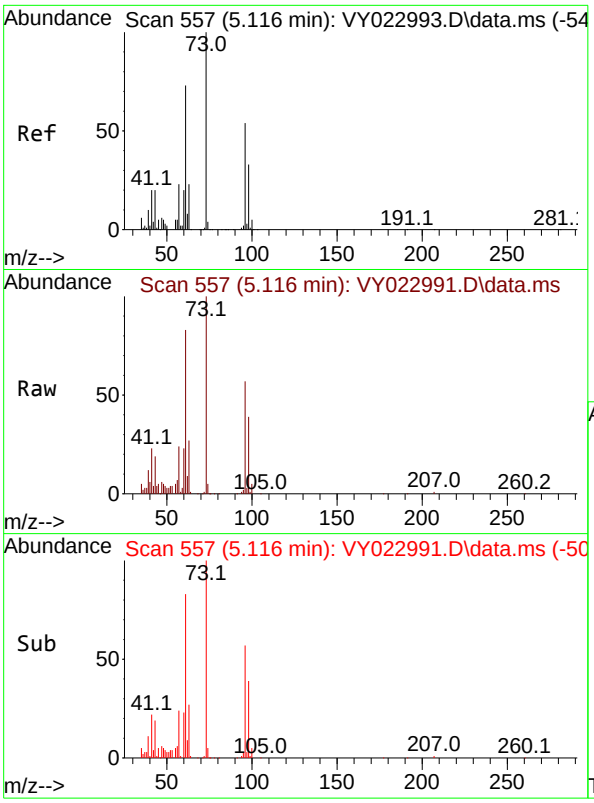


#20
Methylene Chloride
Concen: 9.348 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 84 Resp: 101278

Ion	Ratio	Lower	Upper
84	100		
49	116.6	98.2	147.4
51	35.5	30.5	45.7
86	59.8	51.3	76.9



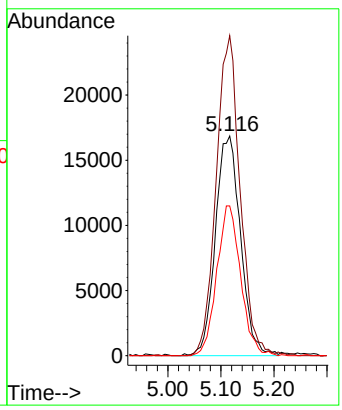


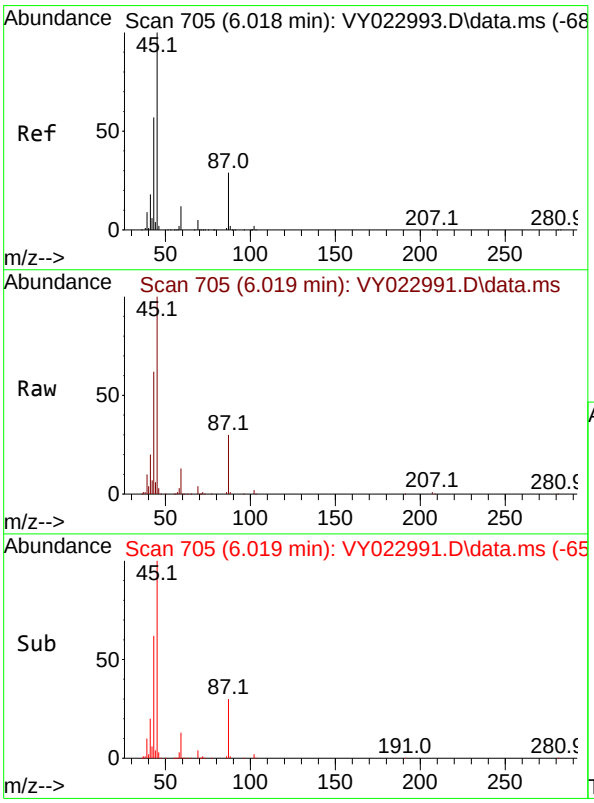
#21
trans-1,2-Dichloroethene
Concen: 9.657 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 55587

Ion	Ratio	Lower	Upper
96	100		
61	145.6	107.4	161.2
98	68.2	49.3	73.9

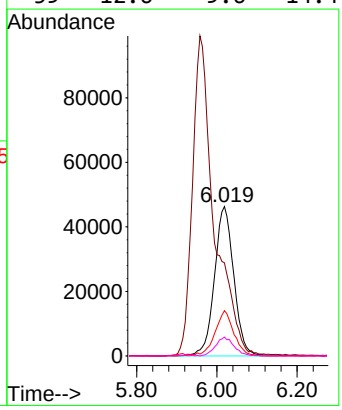


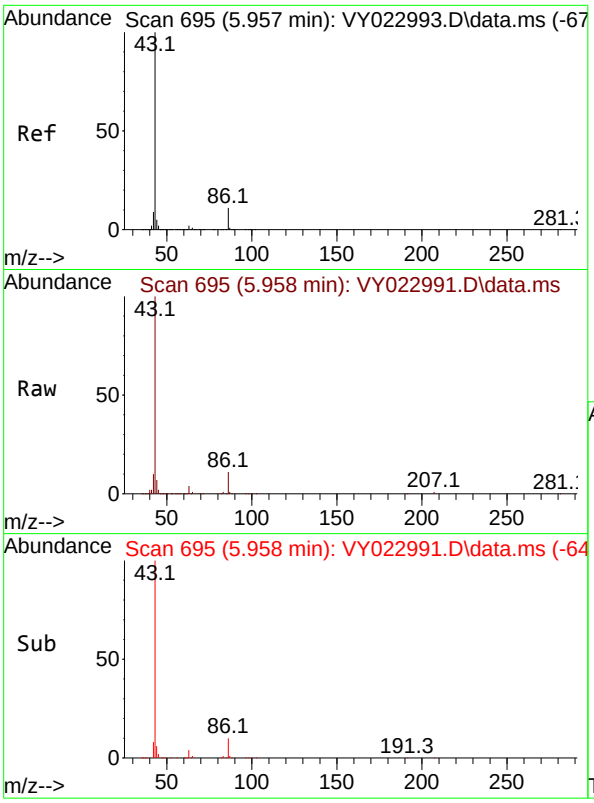


#22
Diisopropyl ether
Concen: 9.274 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 45 Resp: 155004

Ion	Ratio	Lower	Upper
45	100		
43	61.4	45.3	67.9
87	30.3	23.3	34.9
59	12.6	9.6	14.4



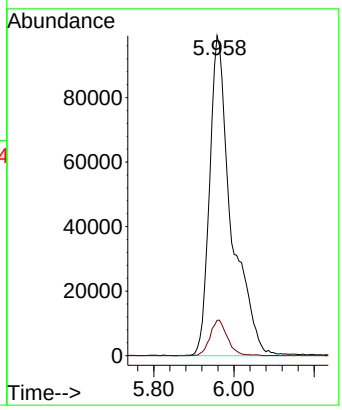


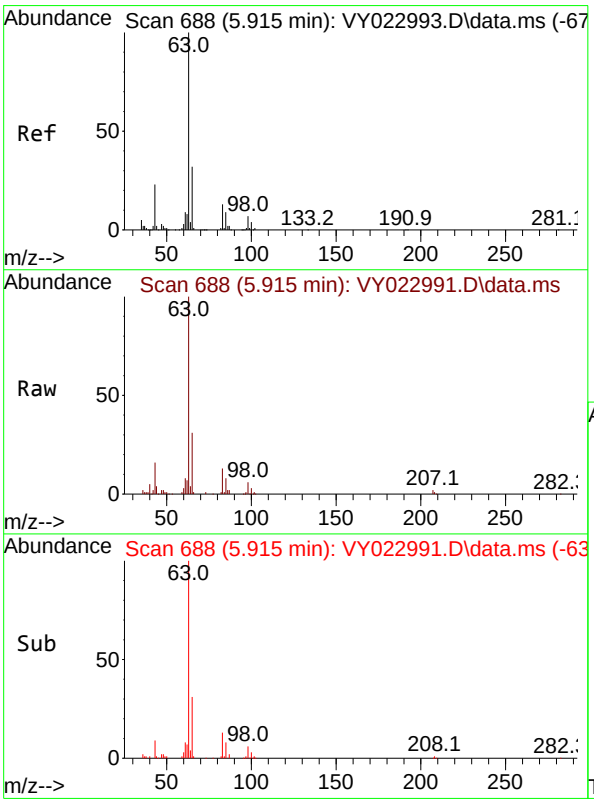
#23
Vinyl Acetate
Concen: 44.343 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 373434

Ion	Ratio	Lower	Upper
43	100		
86	11.1	9.0	13.4

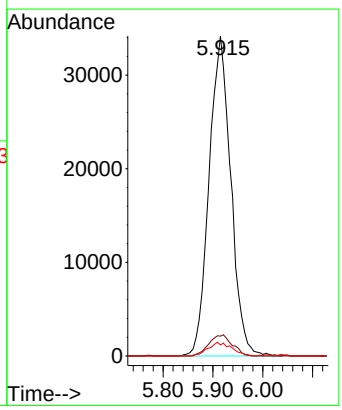


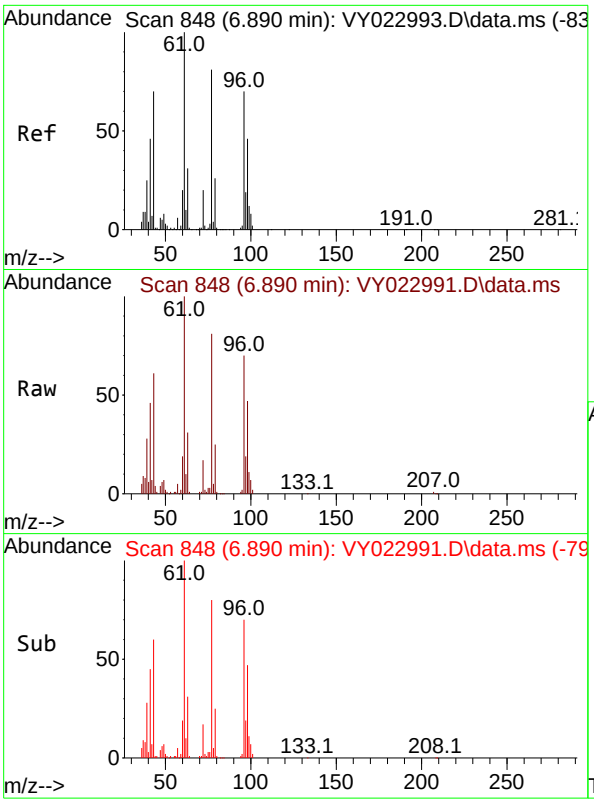


#24
1,1-Dichloroethane
Concen: 9.859 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 63 Resp: 103495

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.5	10.5
100	3.5	2.1	6.2



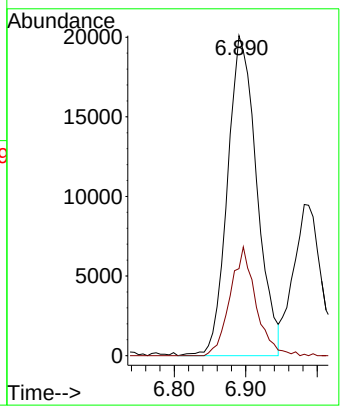


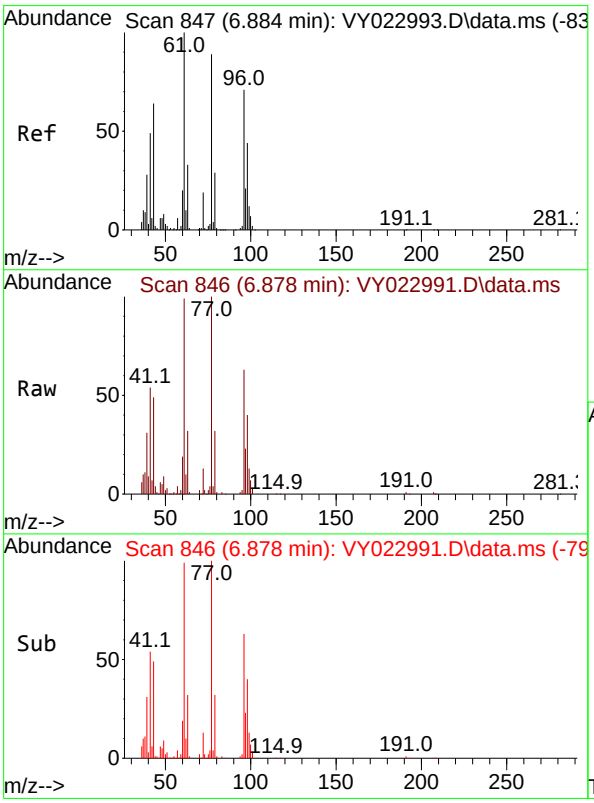
#25
2-Butanone
Concen: 44.650 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 57204

Ion	Ratio	Lower	Upper
43	100		
72	27.2	22.9	34.3

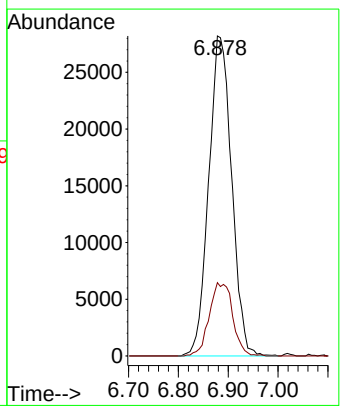


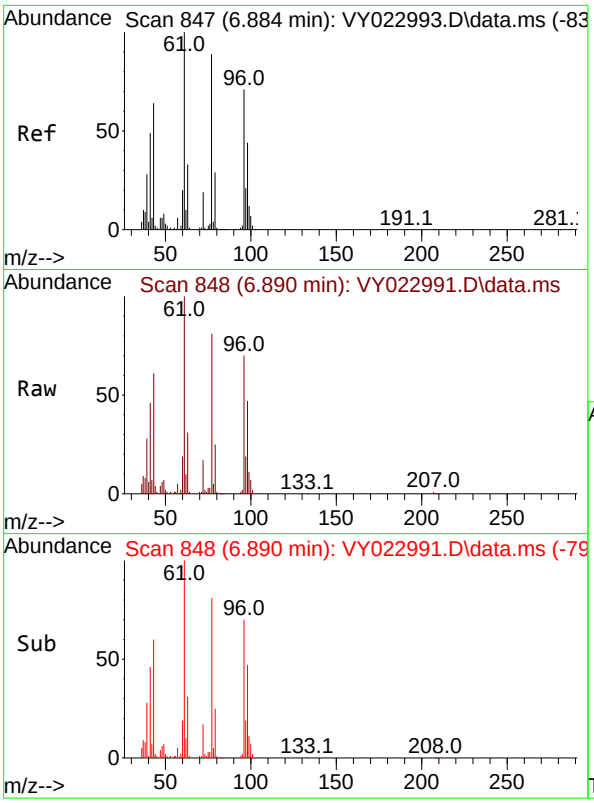


#26
2,2-Dichloropropane
Concen: 9.787 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 77 Resp: 90050

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.3	33.9



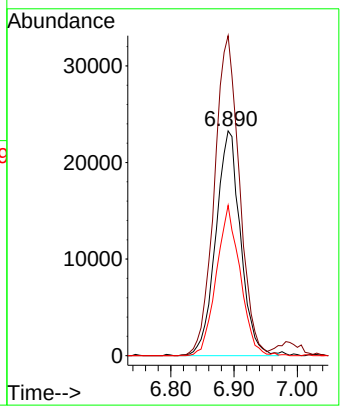


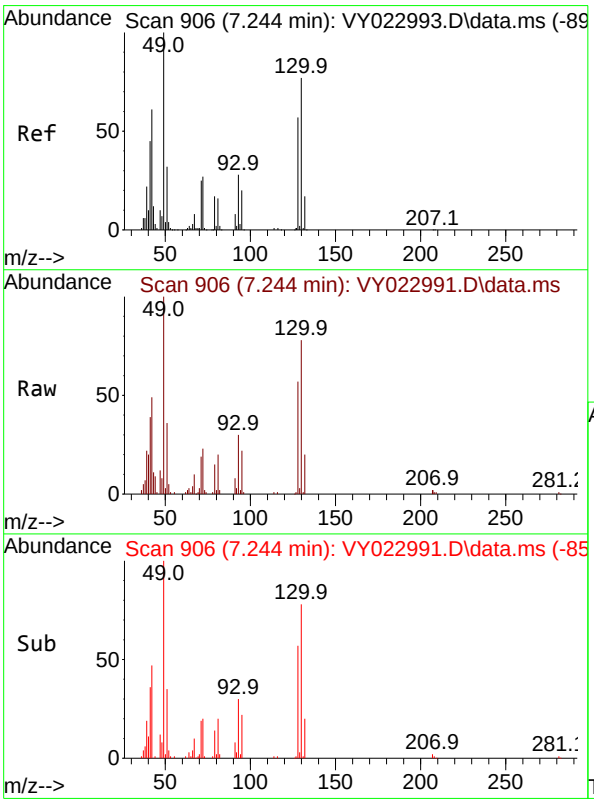
#27
cis-1,2-Dichloroethene
Concen: 9.501 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 63030

Ion	Ratio	Lower	Upper
96	100		
61	144.3	0.0	286.2
98	64.4	0.0	127.4

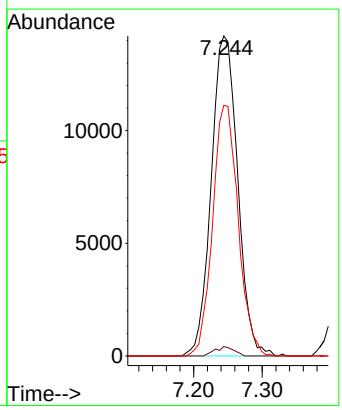


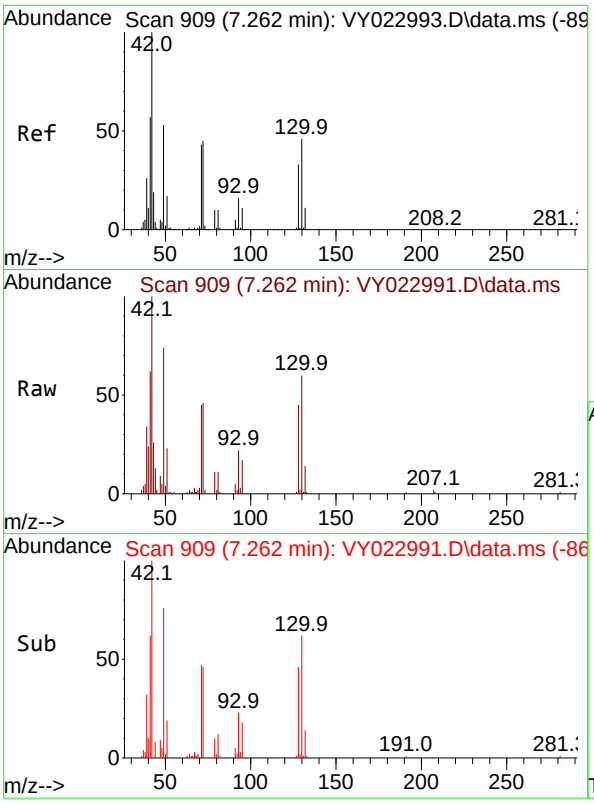


#28
Bromochloromethane
Concen: 9.356 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 49 Resp: 38094

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	75.6	61.8	92.8



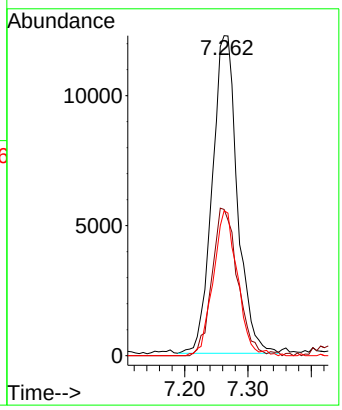


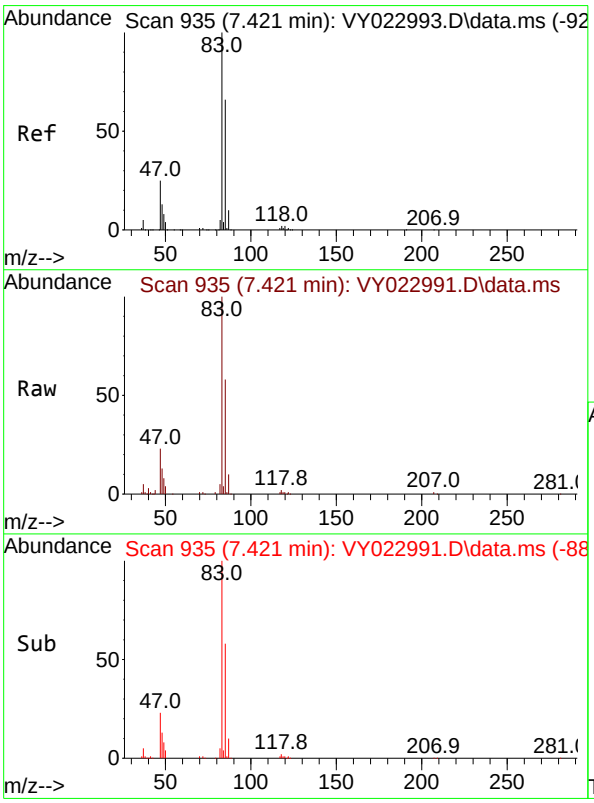
#29
Tetrahydrofuran
Concen: 41.597 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 33741

Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.5	56.3
71	44.2	34.2	51.4

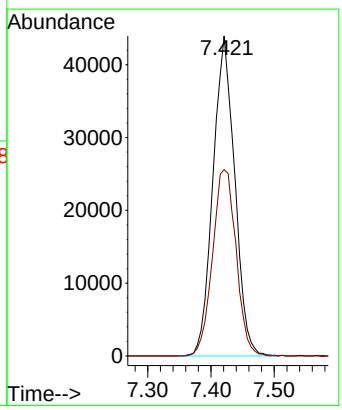


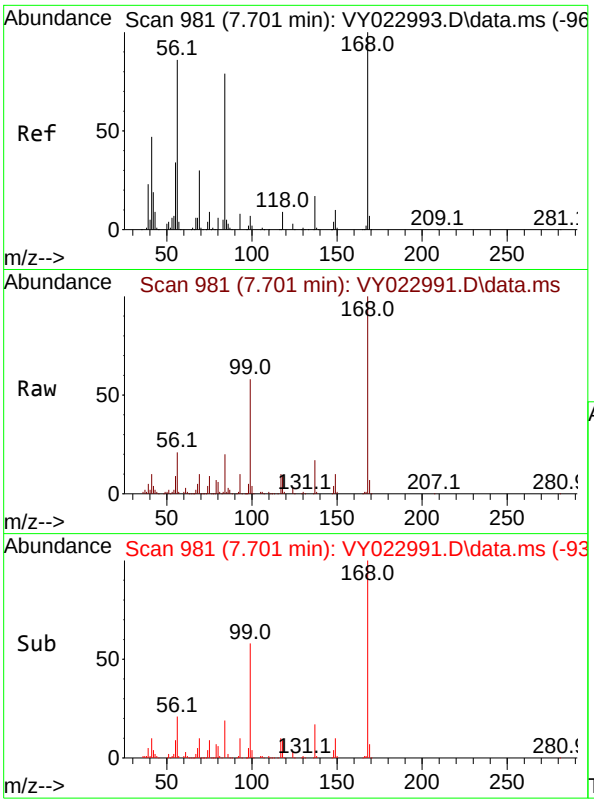


#30
Chloroform
Concen: 9.890 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 83 Resp: 104738

Ion	Ratio	Lower	Upper
83	100		
85	58.2	52.6	78.8



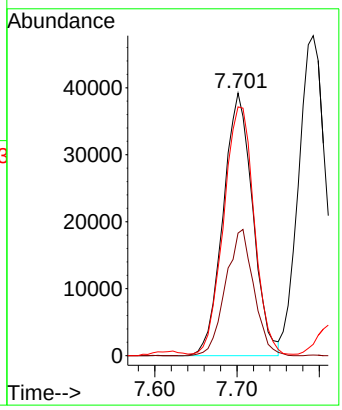


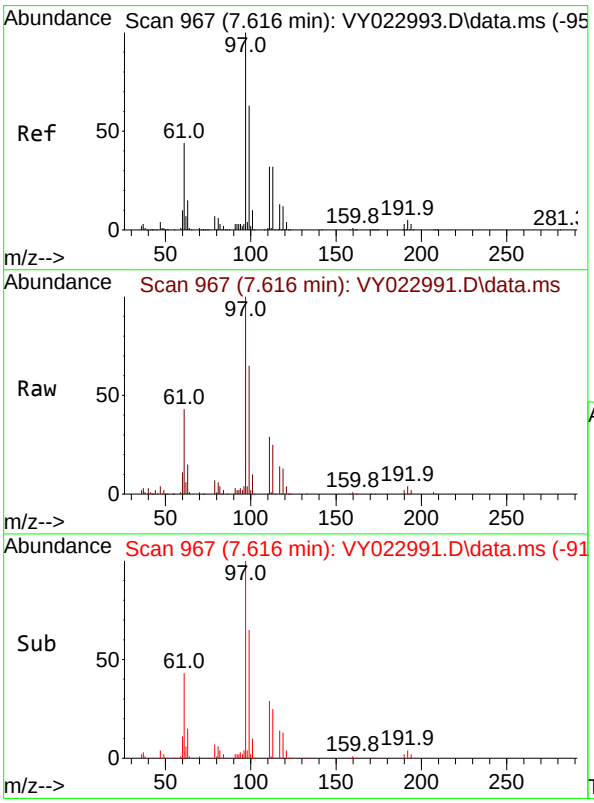
#31
Cyclohexane
Concen: 10.037 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 98453

Ion	Ratio	Lower	Upper
56	100		
69	46.7	28.1	42.1#
84	93.6	73.5	110.3

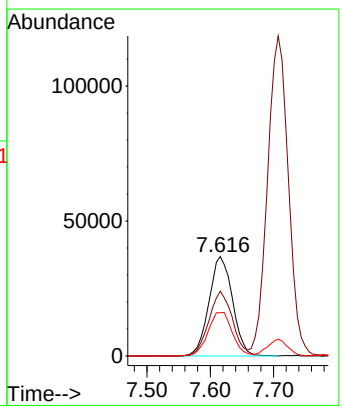


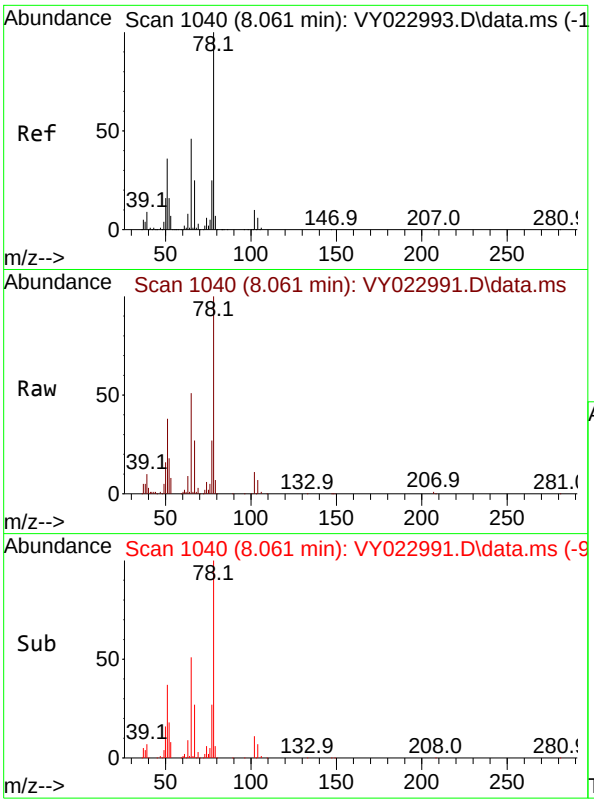


#32
1,1,1-Trichloroethane
Concen: 9.886 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 97 Resp: 94990

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.1	76.7
61	45.5	36.1	54.1



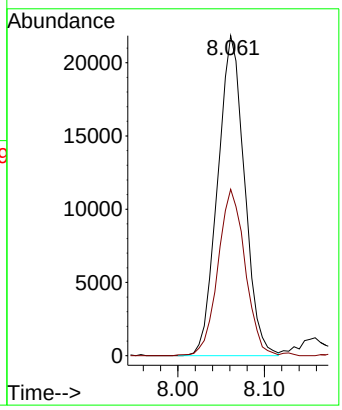


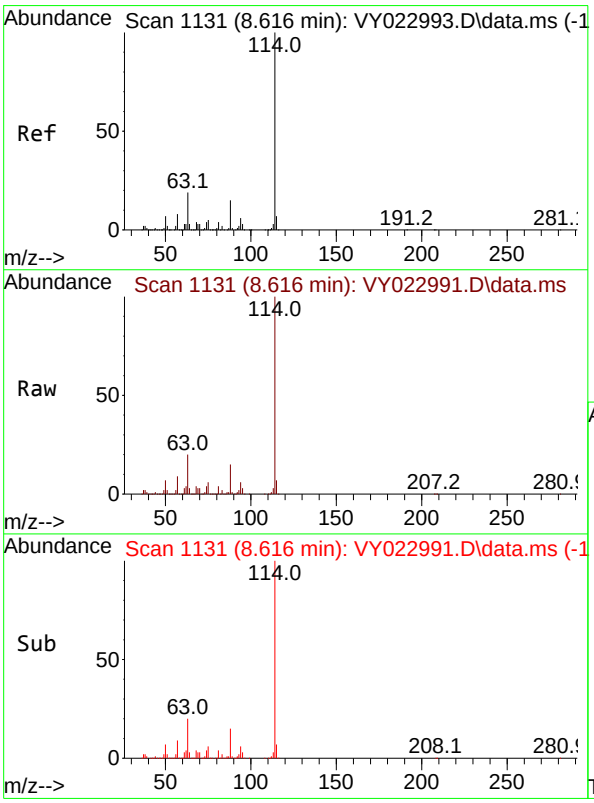
#33
1,2-Dichloroethane-d4
Concen: 9.538 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 46989

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.4

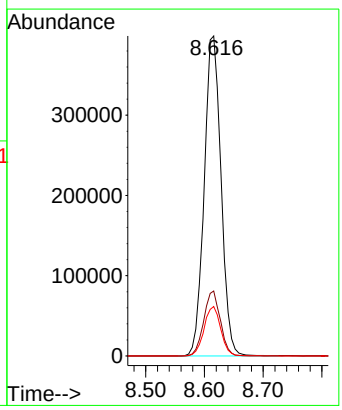


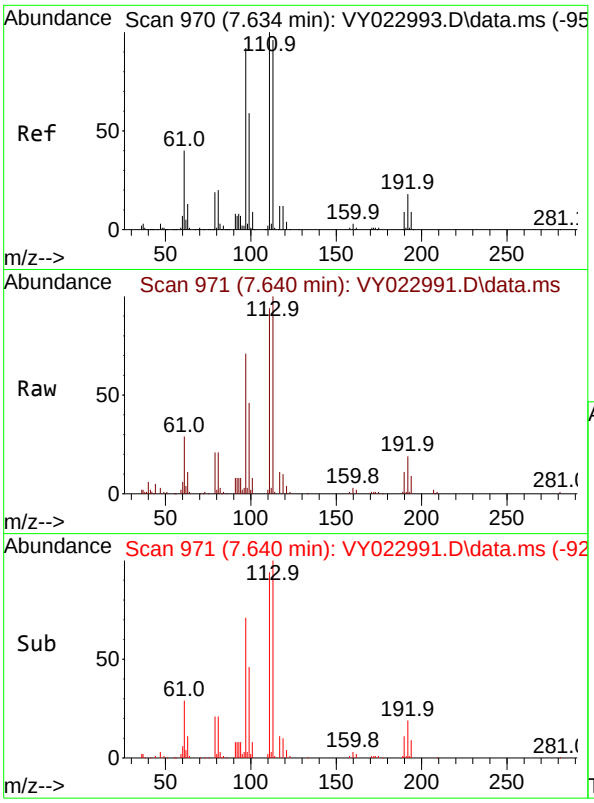


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:114 Resp: 793912

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	38.8
88	15.5	0.0	30.2



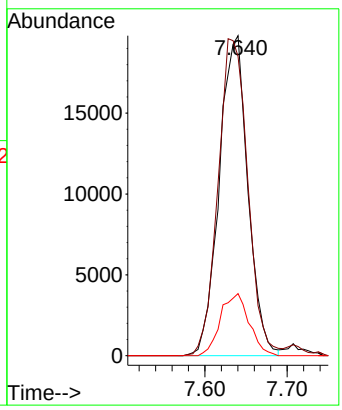


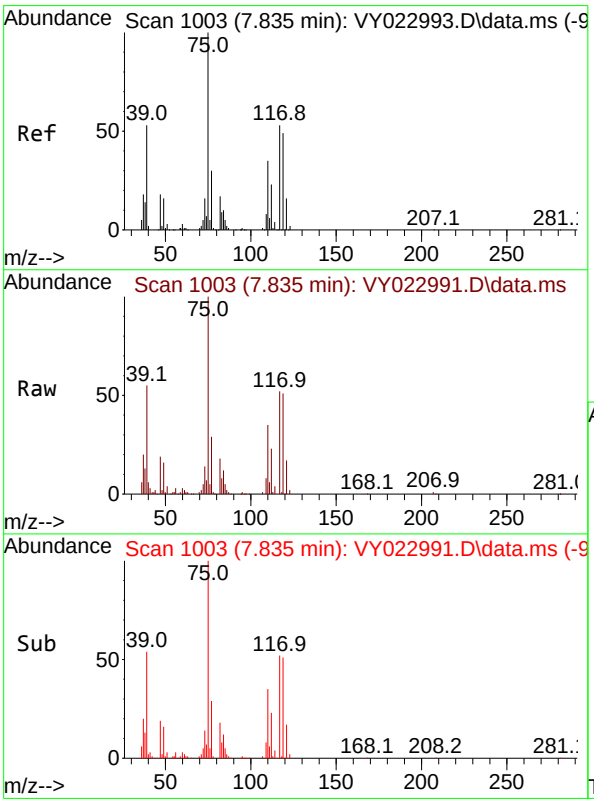
#35
Dibromofluoromethane
Concen: 9.519 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 47940

Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.2	124.8
192	19.5	15.3	22.9

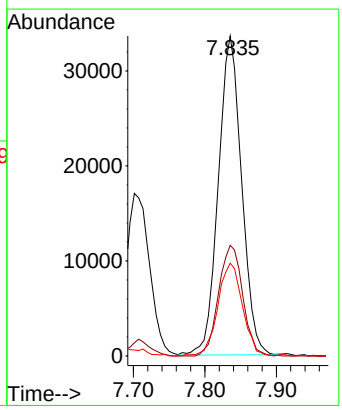


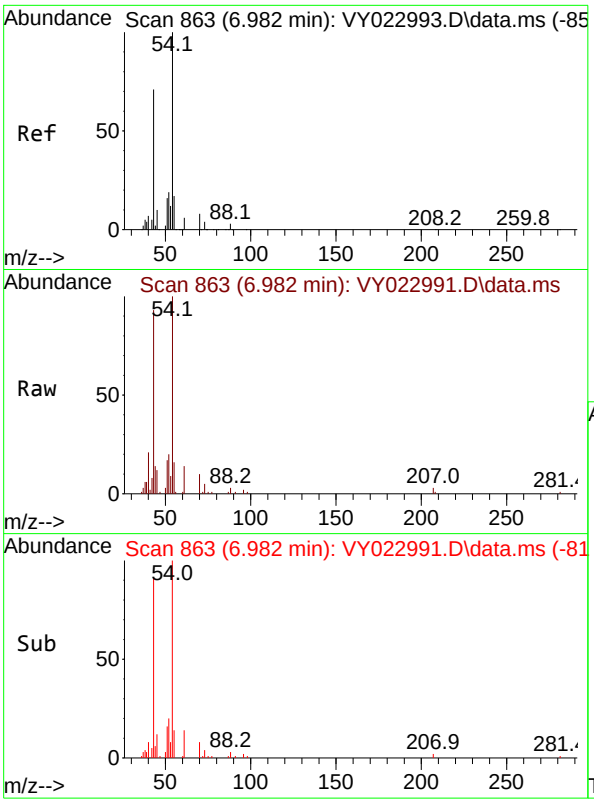


#36
1,1-Dichloropropene
Concen: 9.585 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 76035

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.3	51.9
77	30.7	24.6	37.0



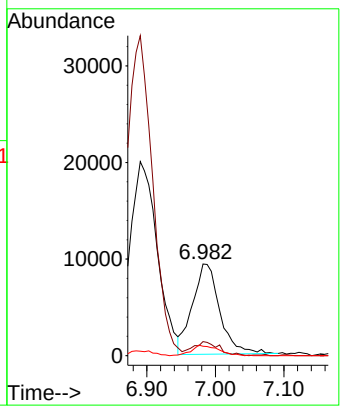


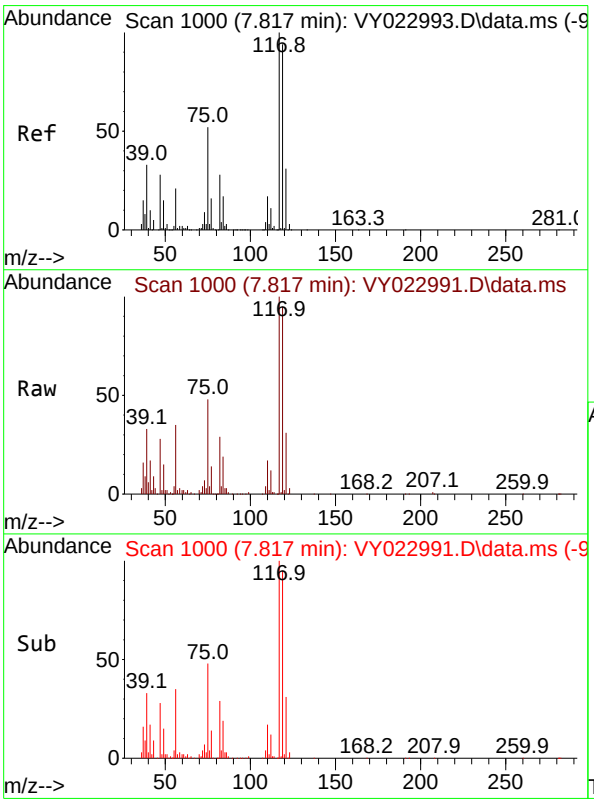
#37
Ethyl Acetate
Concen: 8.834 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 26025

Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.6	17.4
70	11.4	8.5	12.7

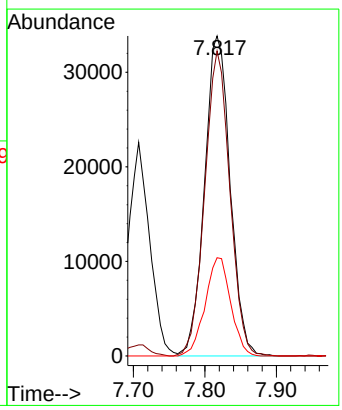


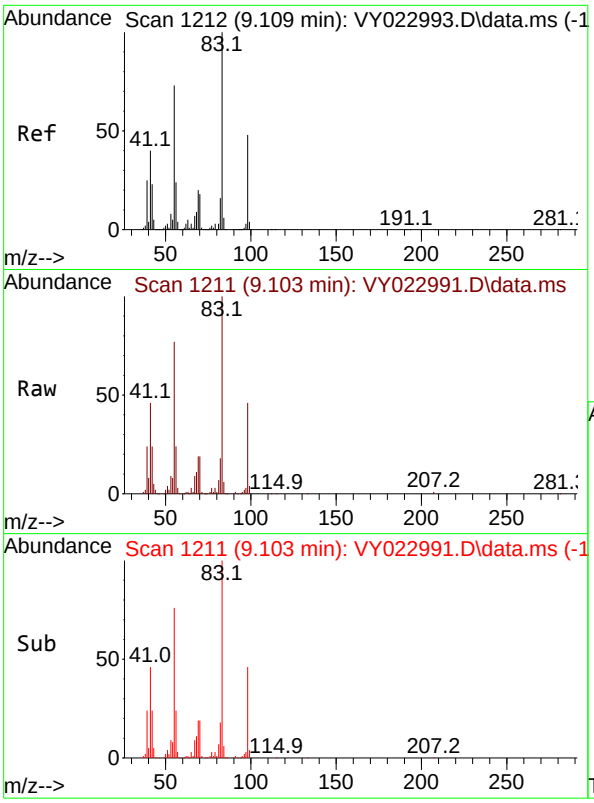


#38
Carbon Tetrachloride
Concen: 9.764 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:117 Resp: 84148

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.9	112.3
121	30.7	24.6	37.0



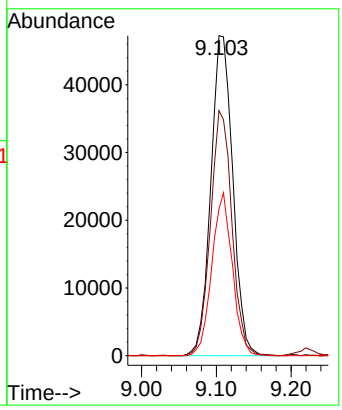


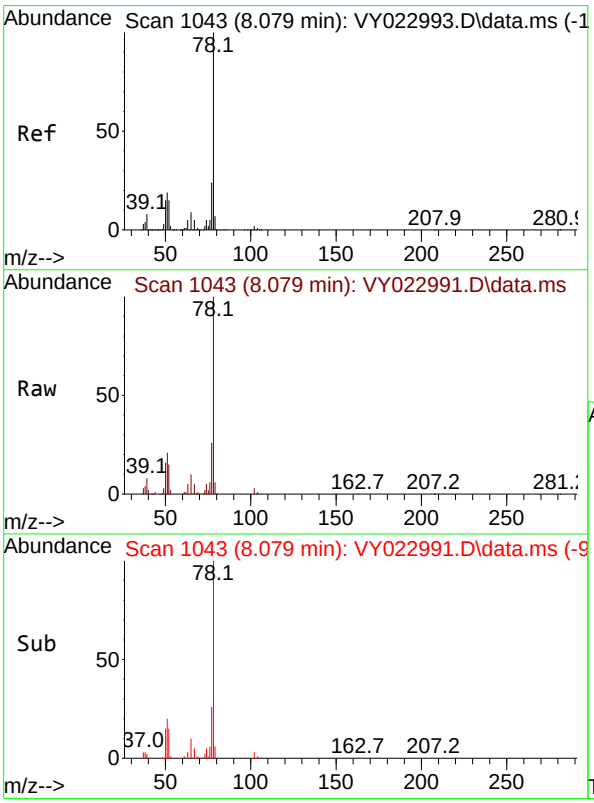
#39
Methylcyclohexane
Concen: 9.412 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 96640

Ion	Ratio	Lower	Upper
83	100		
55	76.6	58.1	87.1
98	45.9	38.5	57.7

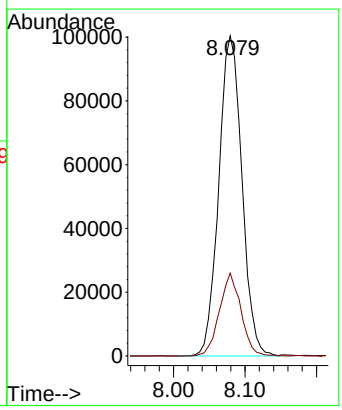


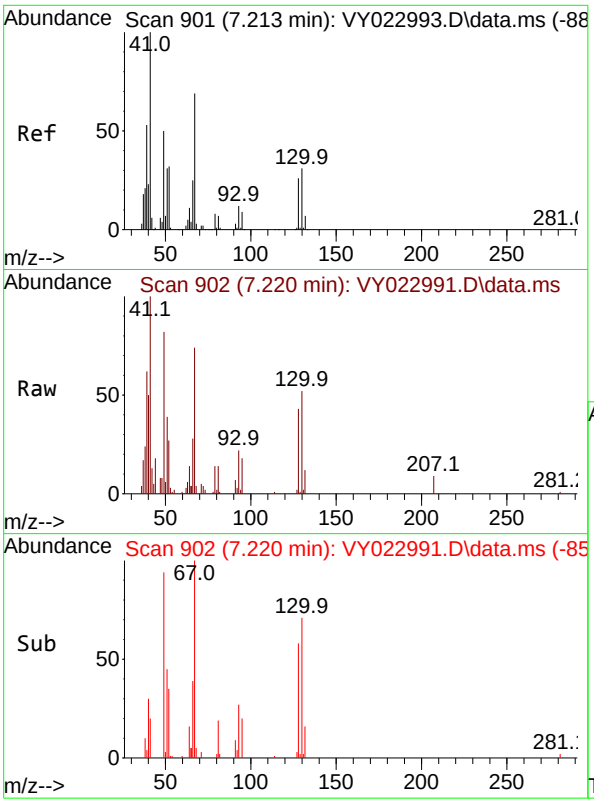


#40
Benzene
Concen: 9.450 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 78 Resp: 225702

Ion	Ratio	Lower	Upper
78	100		
77	25.9	19.0	28.4



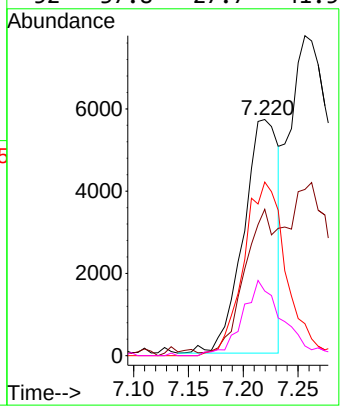


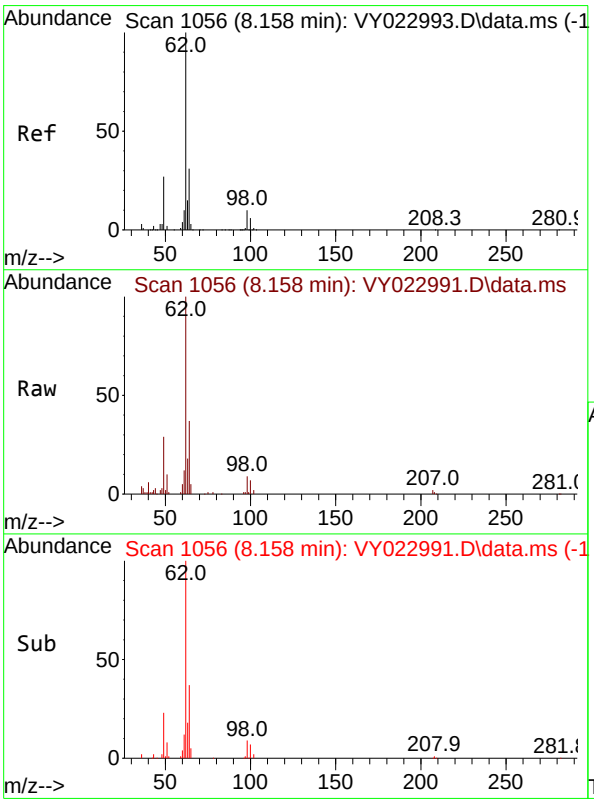
#41
Methacrylonitrile
Concen: 8.052 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 12522

Ion	Ratio	Lower	Upper
41	100		
39	57.3	50.0	75.0
67	91.5	65.4	98.2
52	37.8	27.7	41.5

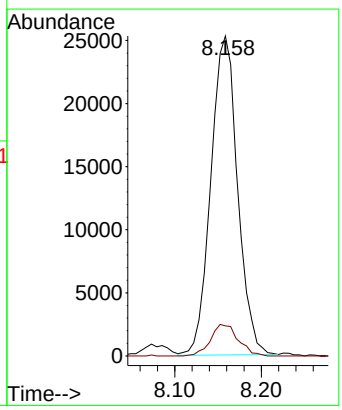


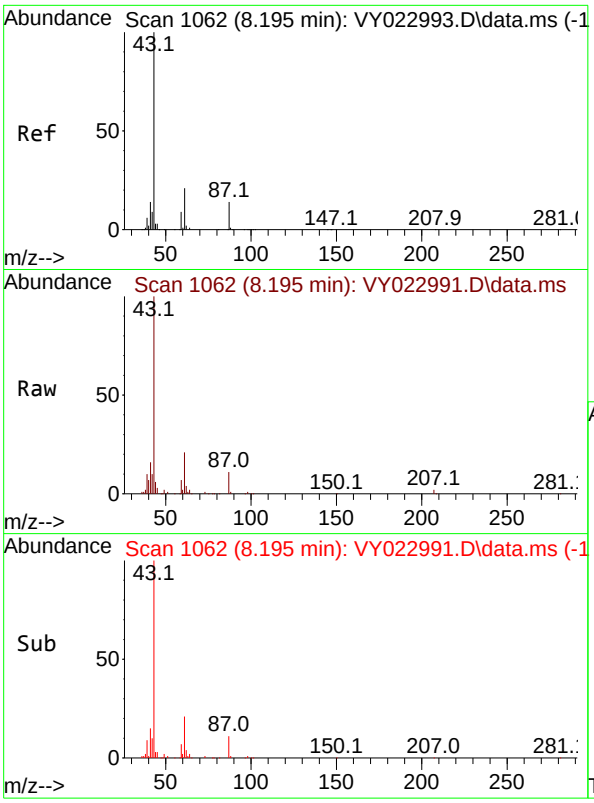


#42
1,2-Dichloroethane
Concen: 9.130 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 62 Resp: 54251

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.0



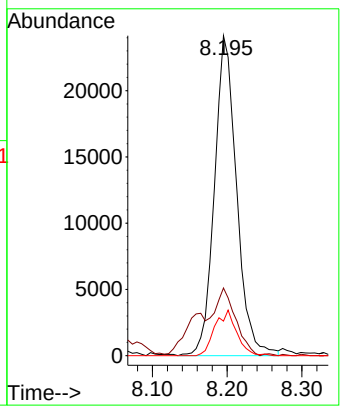


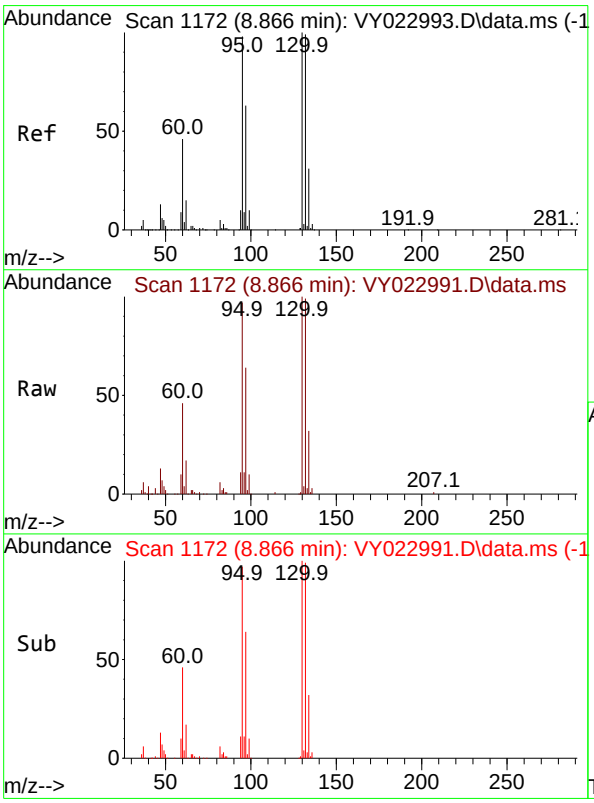
#43
Isopropyl Acetate
Concen: 8.525 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 49891

Ion	Ratio	Lower	Upper
43	100		
61	19.1	25.0	37.4#
87	14.0	11.1	16.7

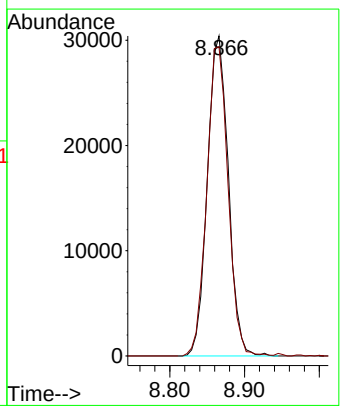


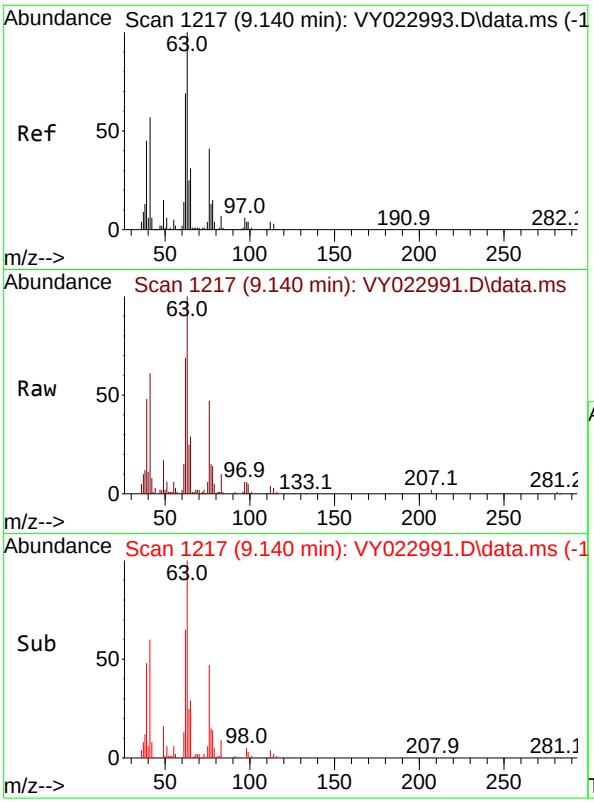


#44
Trichloroethene
Concen: 9.672 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:130 Resp: 59337

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	195.8



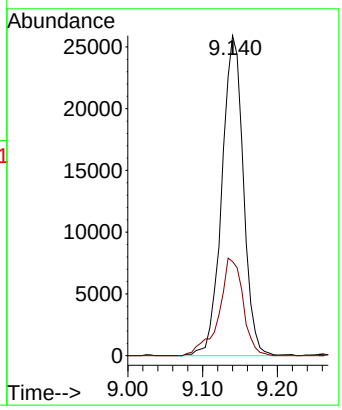


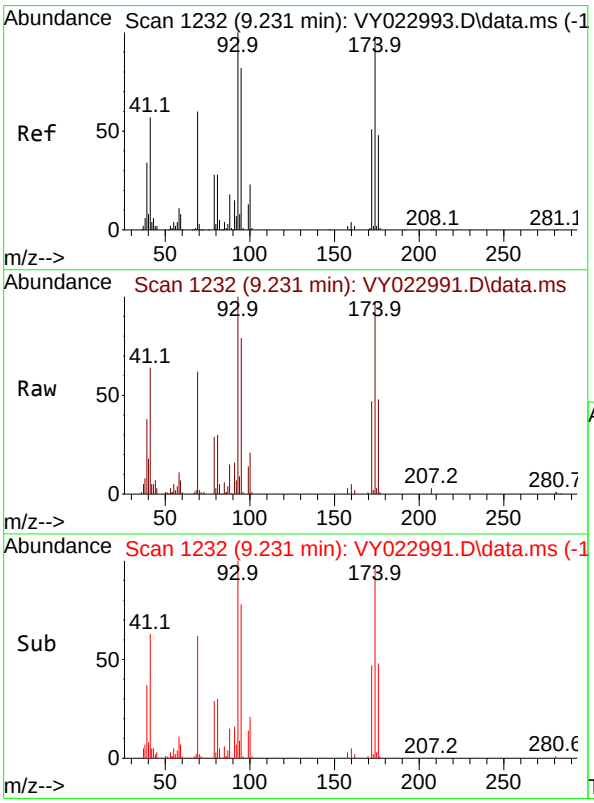
#45
1,2-Dichloropropane
Concen: 9.300 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 51870

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.6	37.0

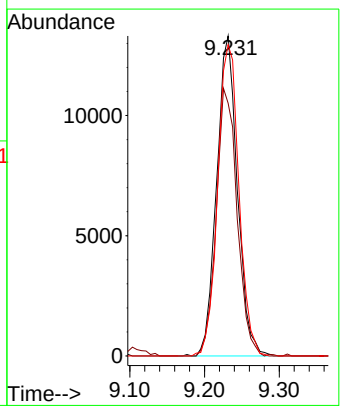


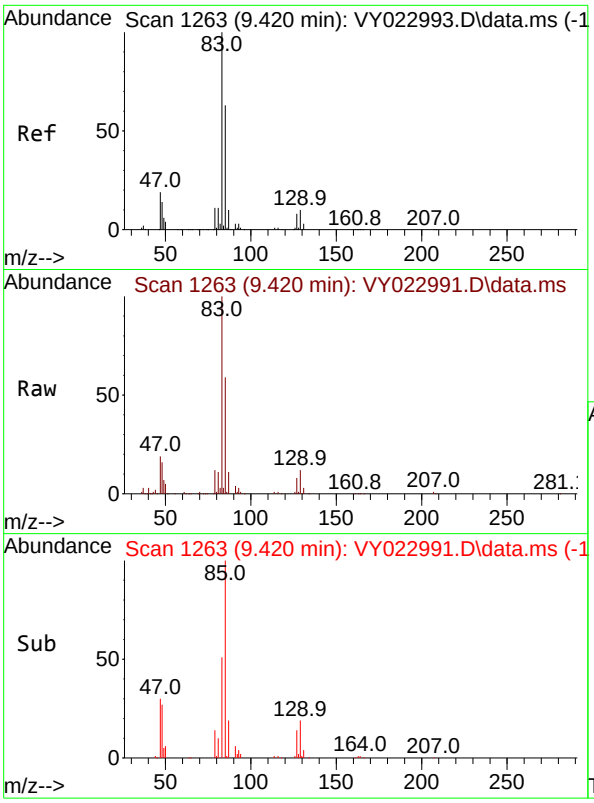


#46
Dibromomethane
Concen: 8.900 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 93 Resp: 25659

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.9	98.9
174	99.6	76.4	114.6



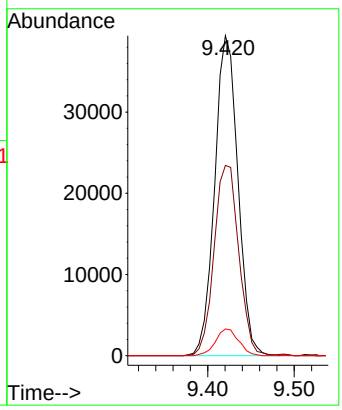


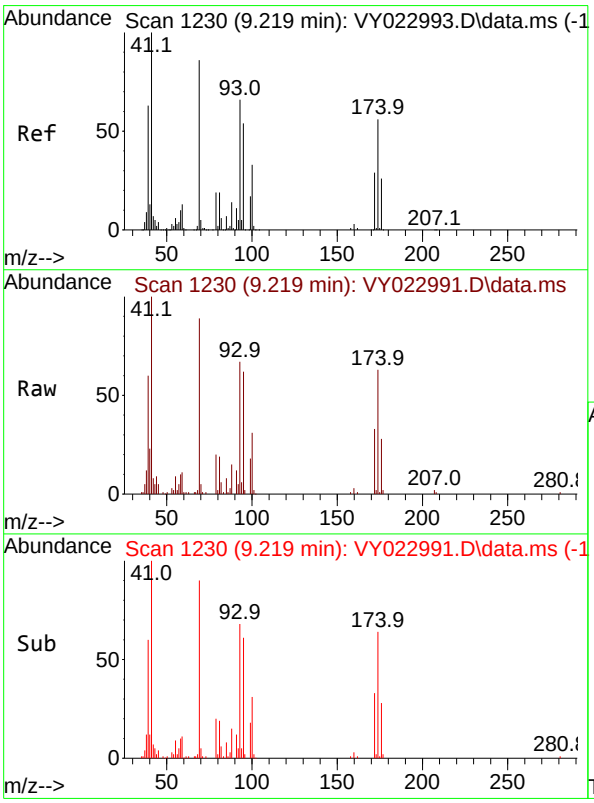
#47
Bromodichloromethane
Concen: 9.219 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 73468

Ion	Ratio	Lower	Upper
83	100		
85	59.5	50.6	75.8
127	8.4	6.5	9.7

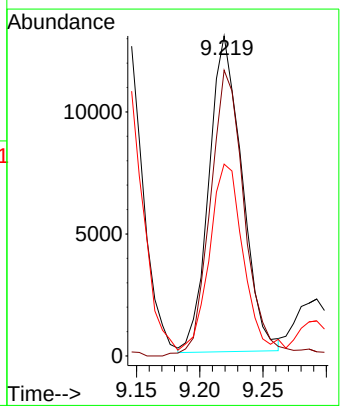


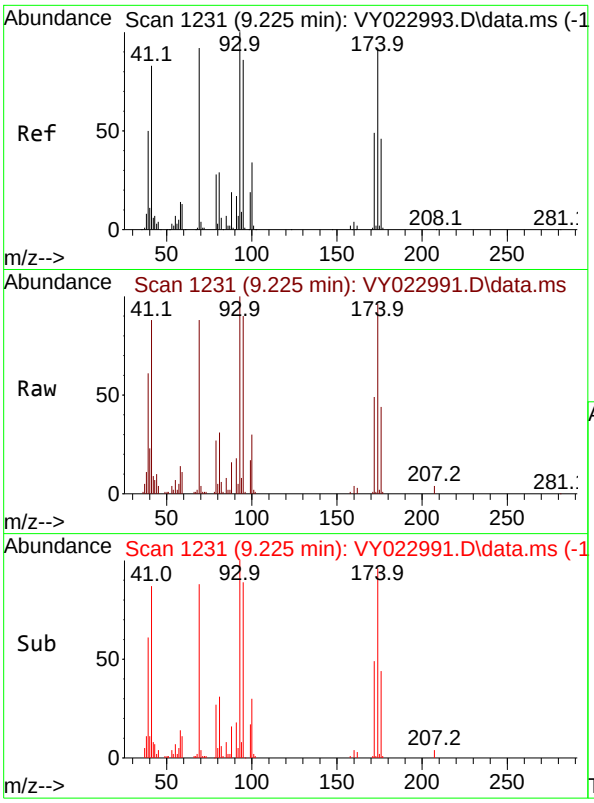


#48
Methyl methacrylate
Concen: 8.347 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 41 Resp: 23583

Ion	Ratio	Lower	Upper
41	100		
69	94.1	71.4	107.0
39	60.0	47.8	71.8



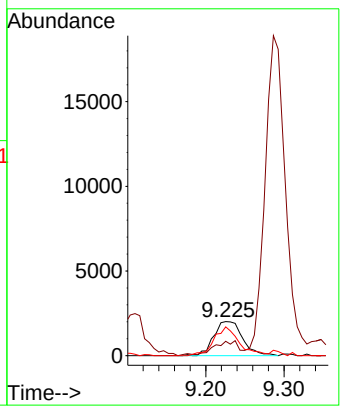


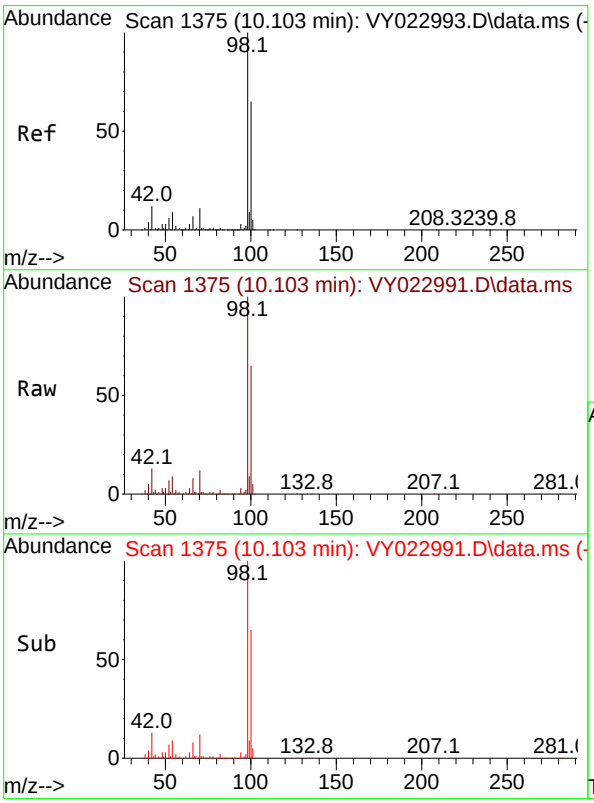
#49
1,4-Dioxane
Concen: 169.729 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 5158

Ion	Ratio	Lower	Upper
88	100		
43	31.2	28.7	43.1
58	73.8	59.8	89.6

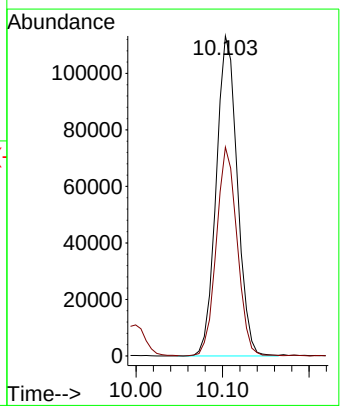


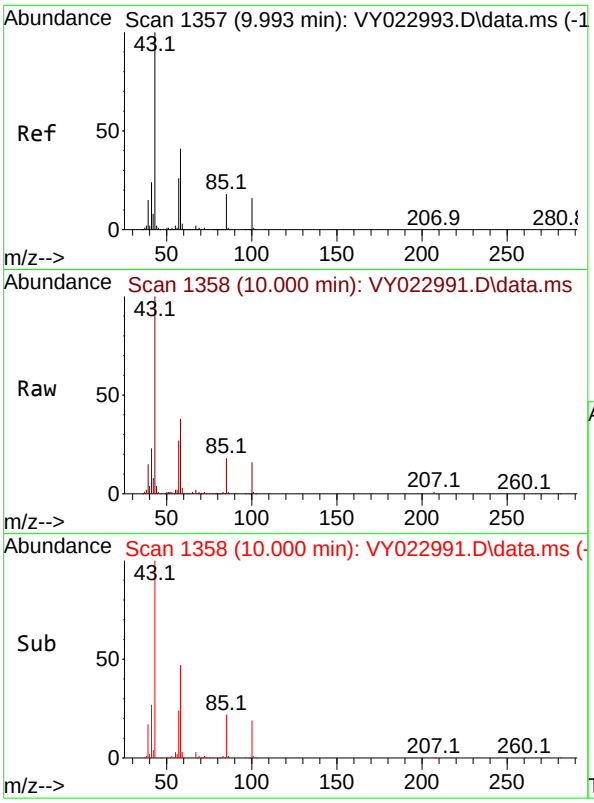


#50
Toluene-d8
Concen: 9.583 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 98 Resp: 191385

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.2



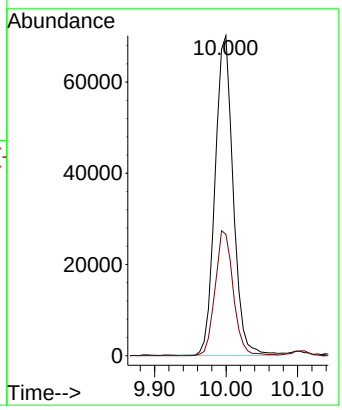


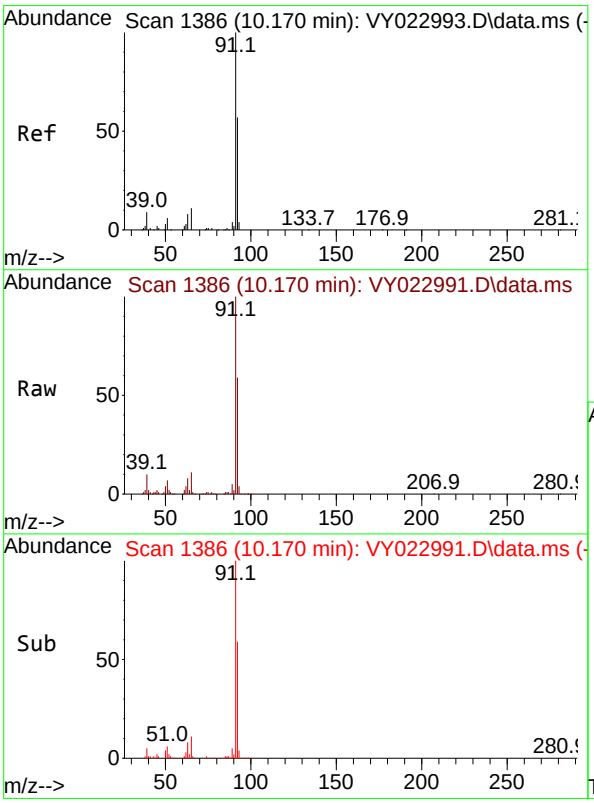
#51
4-Methyl-2-Pentanone
Concen: 41.528 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 123354

Ion	Ratio	Lower	Upper
43	100		
58	39.3	32.5	48.7

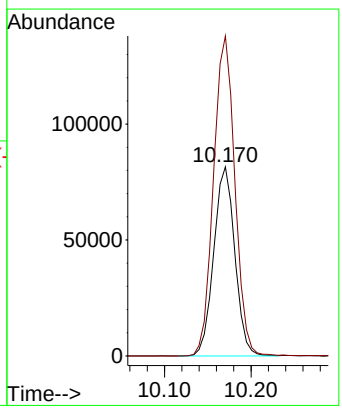


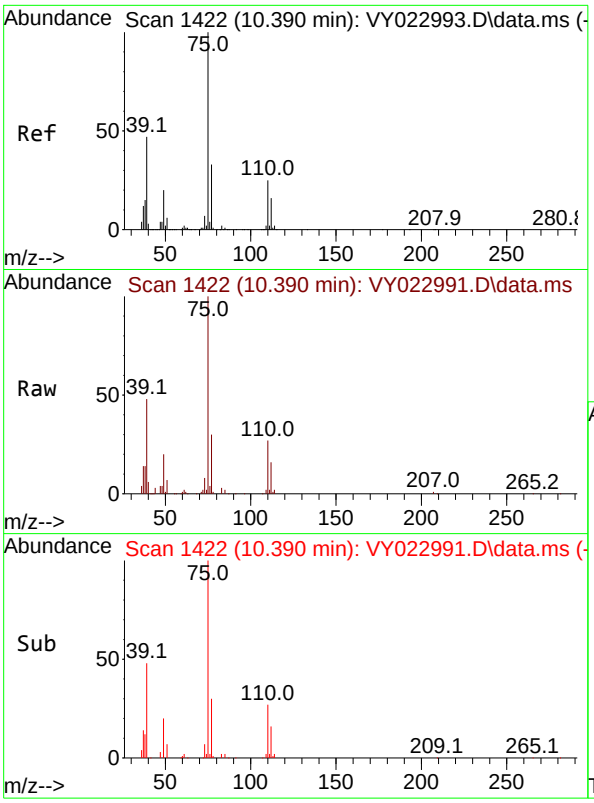


#52
Toluene
Concen: 9.279 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 92 Resp: 137786

Ion	Ratio	Lower	Upper
92	100		
91	171.7	137.8	206.6



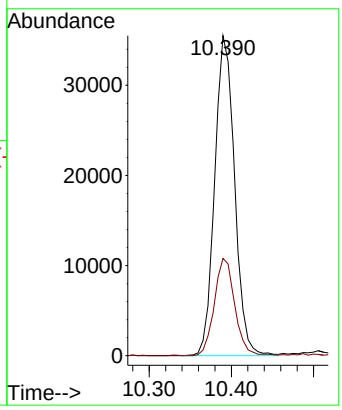


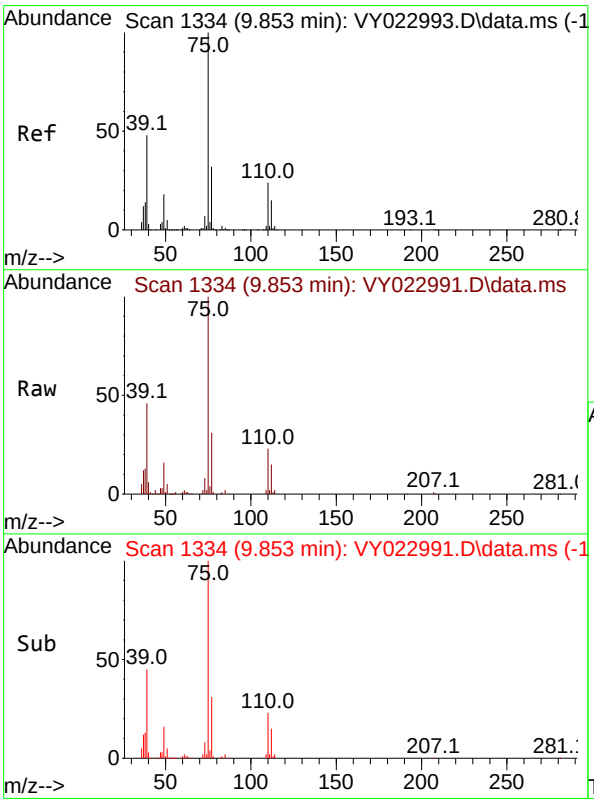
#53
t-1,3-Dichloropropene
Concen: 8.734 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 59746

Ion	Ratio	Lower	Upper
75	100		
77	30.2	26.4	39.6

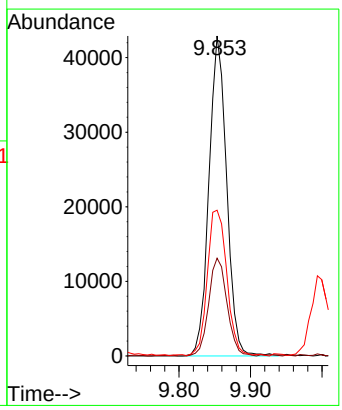


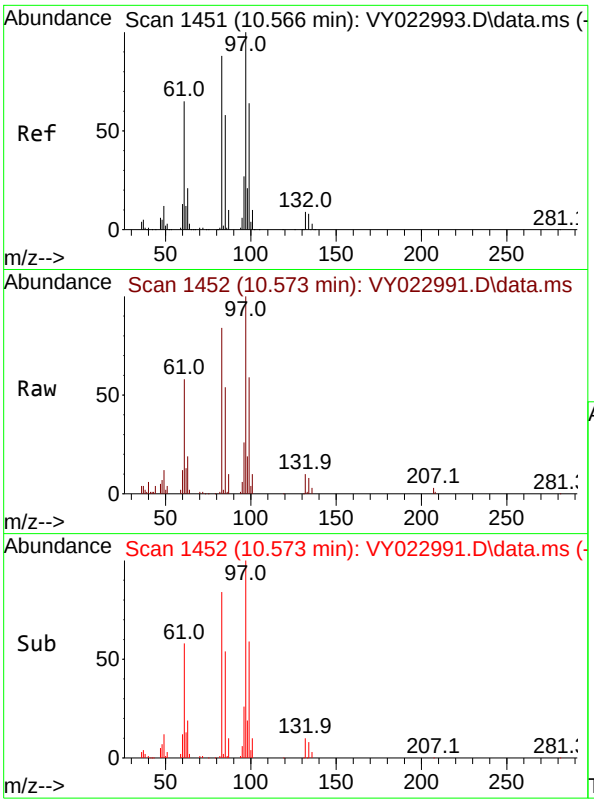


#54
cis-1,3-Dichloropropene
Concen: 8.935 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 73674

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.4	38.0
39	45.2	38.2	57.2



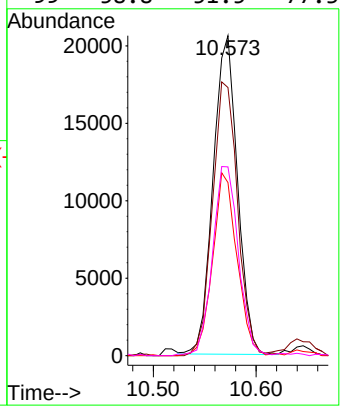


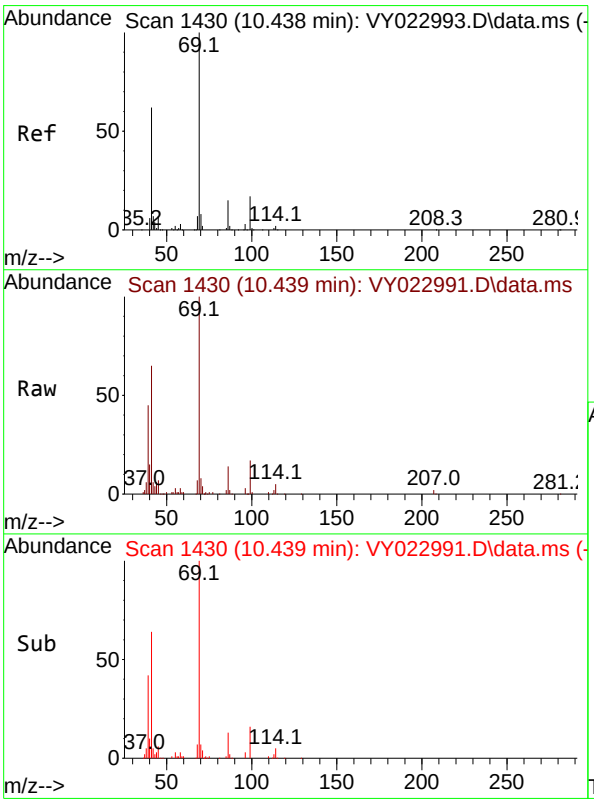
#55
1,1,2-Trichloroethane
Concen: 8.933 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 33848

Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.2	105.2
85	54.4	46.2	69.2
99	58.8	51.5	77.3

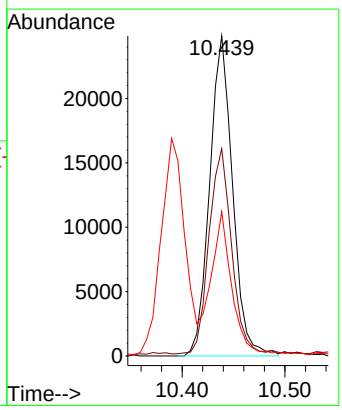


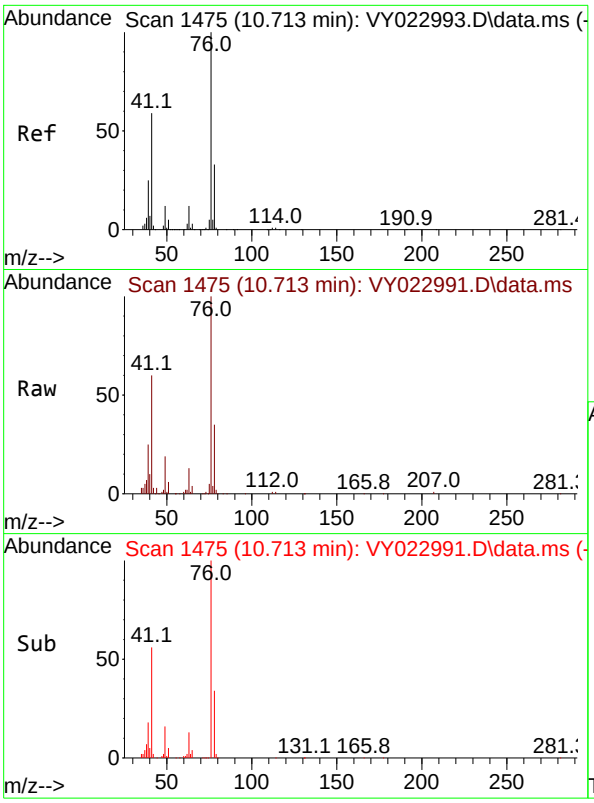


#56
Ethyl methacrylate
Concen: 8.133 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 69 Resp: 38473

Ion	Ratio	Lower	Upper
69	100		
41	62.7	51.0	76.4
39	41.5	30.6	46.0



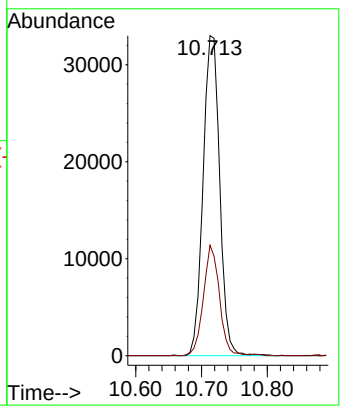


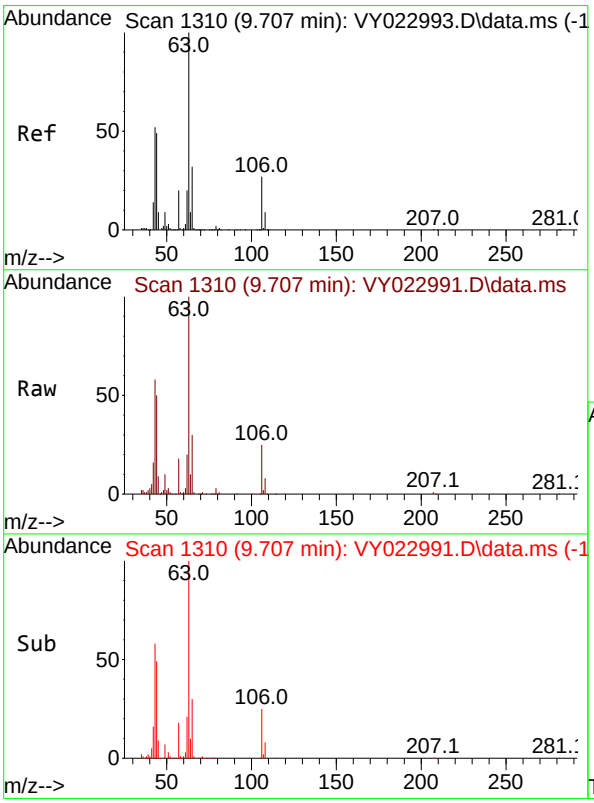
#57
1,3-Dichloropropane
Concen: 8.876 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 58102

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8

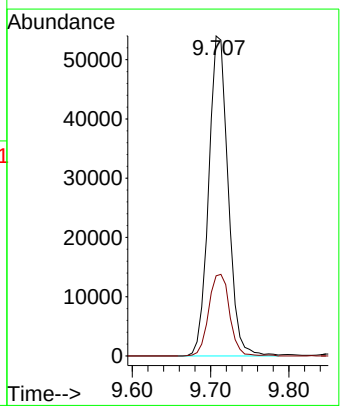


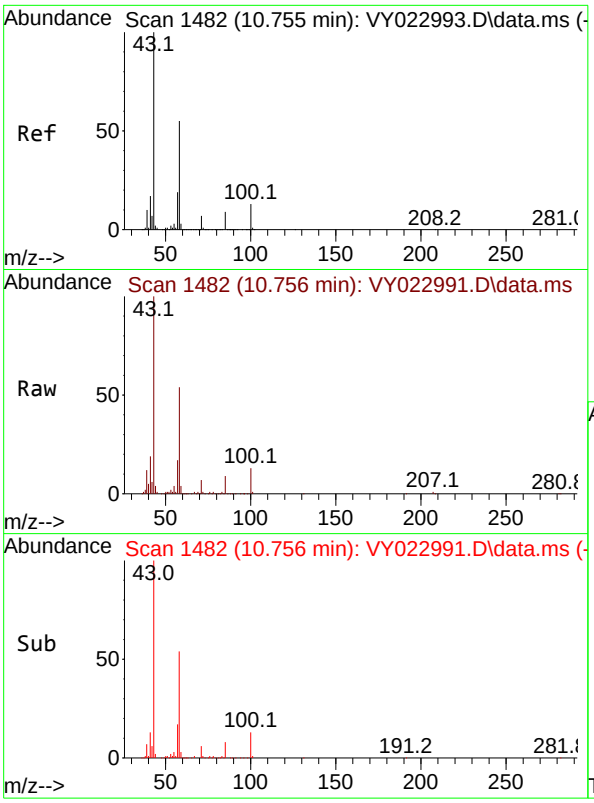


#58
2-Chloroethyl Vinyl ether
Concen: 40.157 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 63 Resp: 92984

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.6	33.8



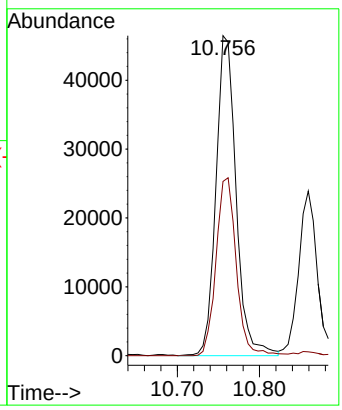


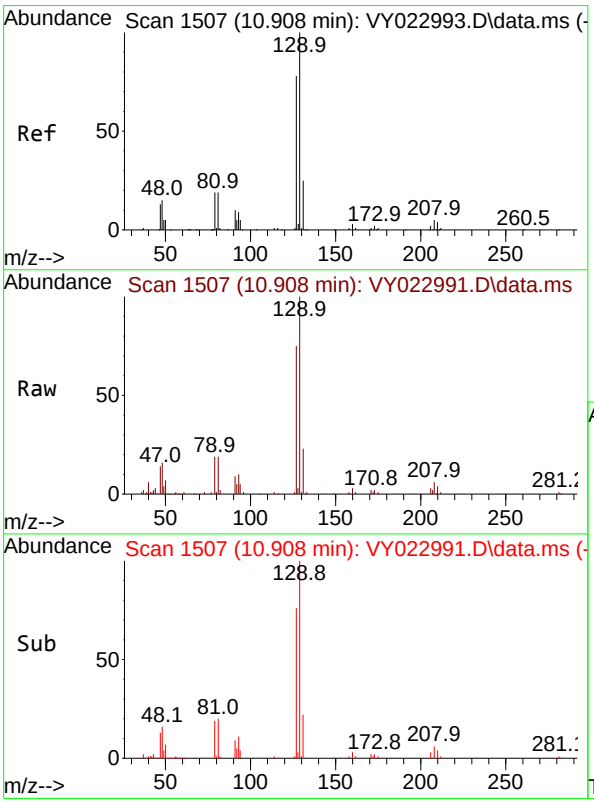
#59
2-Hexanone
Concen: 40.492 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 79059

Ion	Ratio	Lower	Upper
43	100		
58	56.0	28.1	84.3

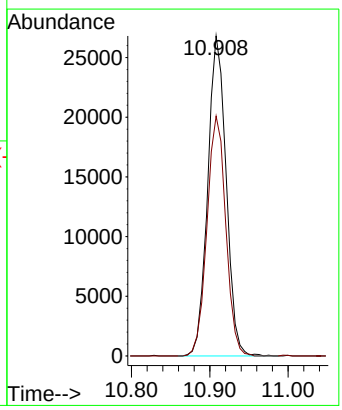


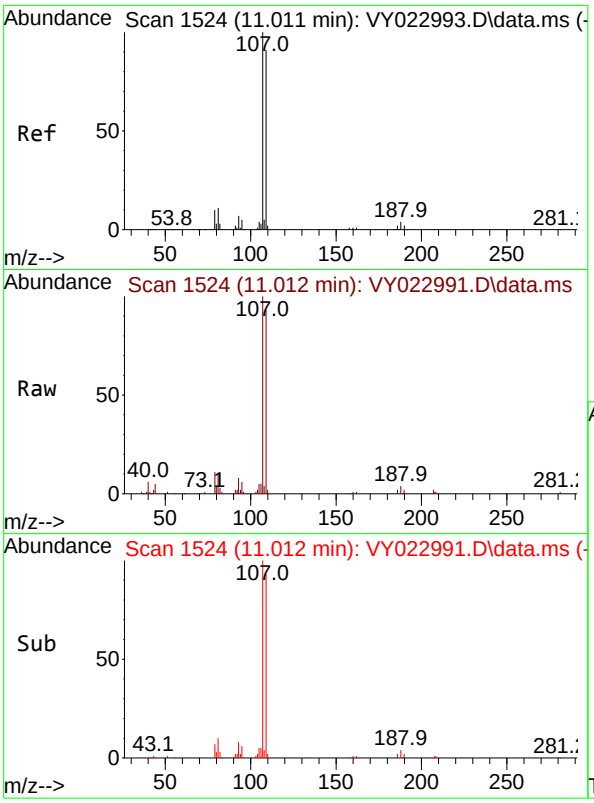


#60
Dibromochloromethane
Concen: 8.809 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:129 Resp: 43711

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.7	116.1



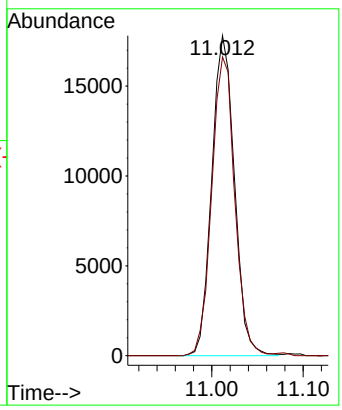


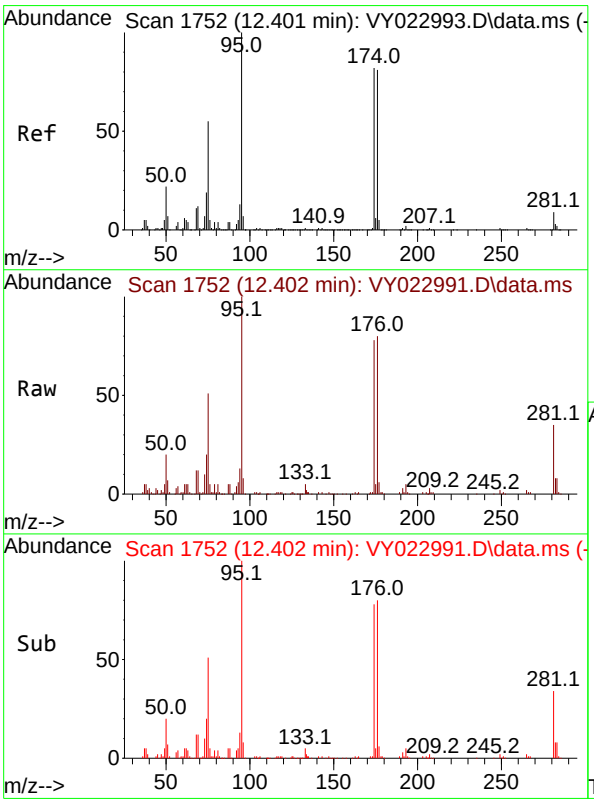
#61
1,2-Dibromoethane
Concen: 8.903 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 30636

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.1	112.7

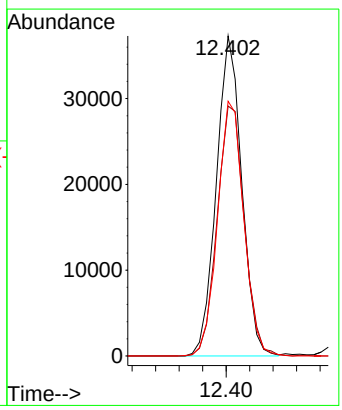


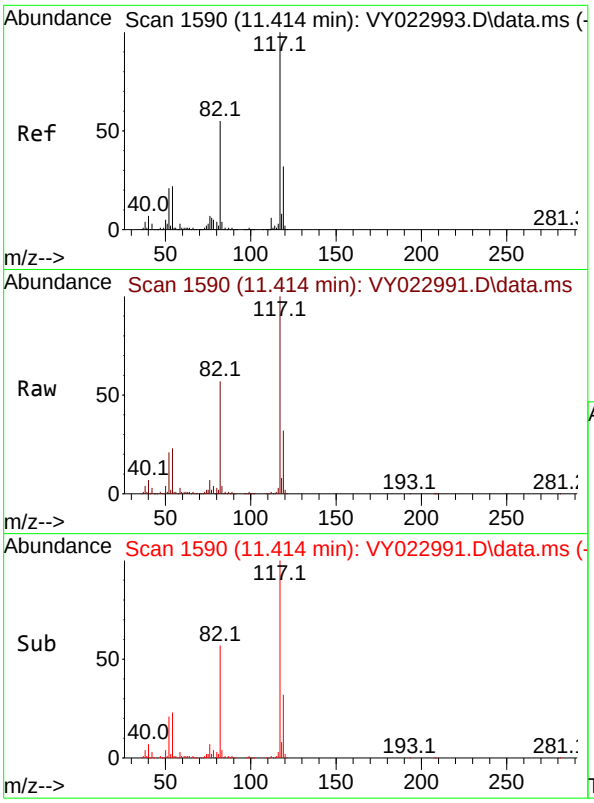


#62
4-Bromofluorobenzene
Concen: 8.915 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 95 Resp: 56048

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	170.8
176	82.1	0.0	163.6



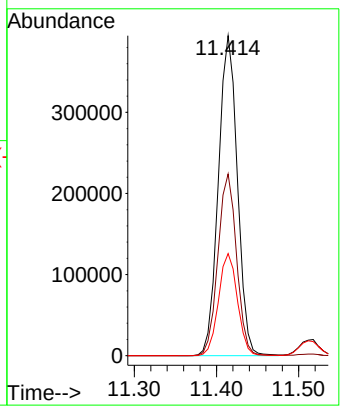


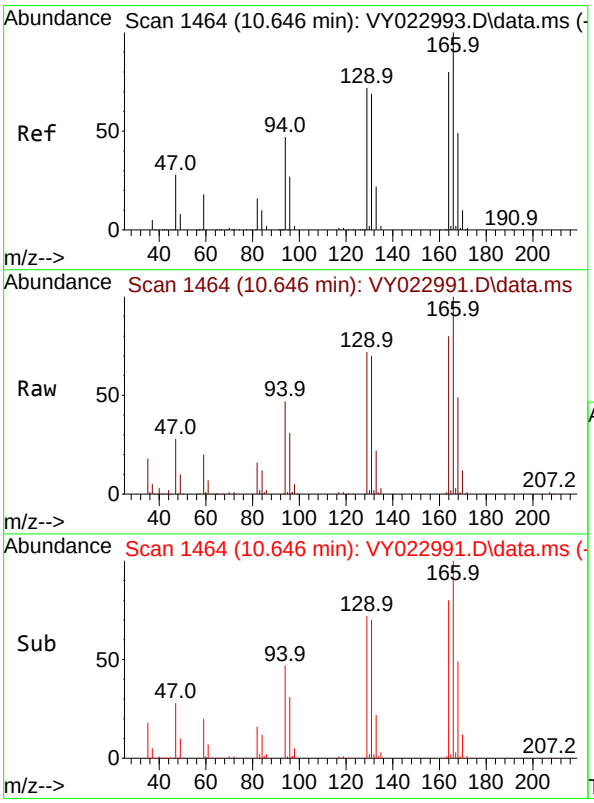
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 634272

Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.3	66.5
119	31.9	25.8	38.8

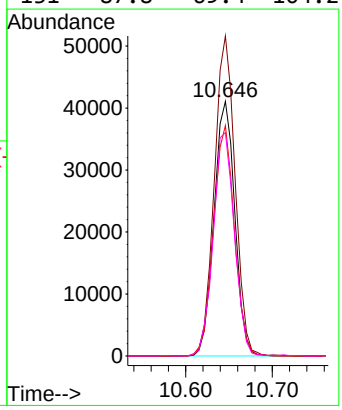


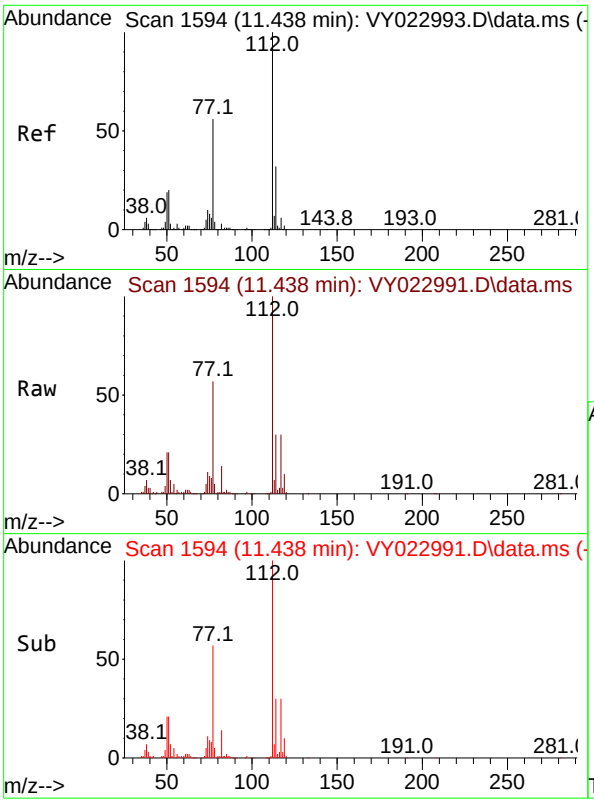


#64
Tetrachloroethene
Concen: 10.575 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:164 Resp: 68560

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.2	150.2
129	90.5	71.7	107.5
131	87.8	69.4	104.2



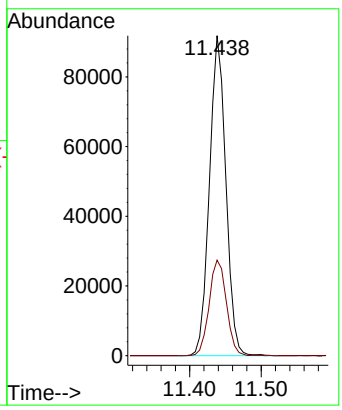


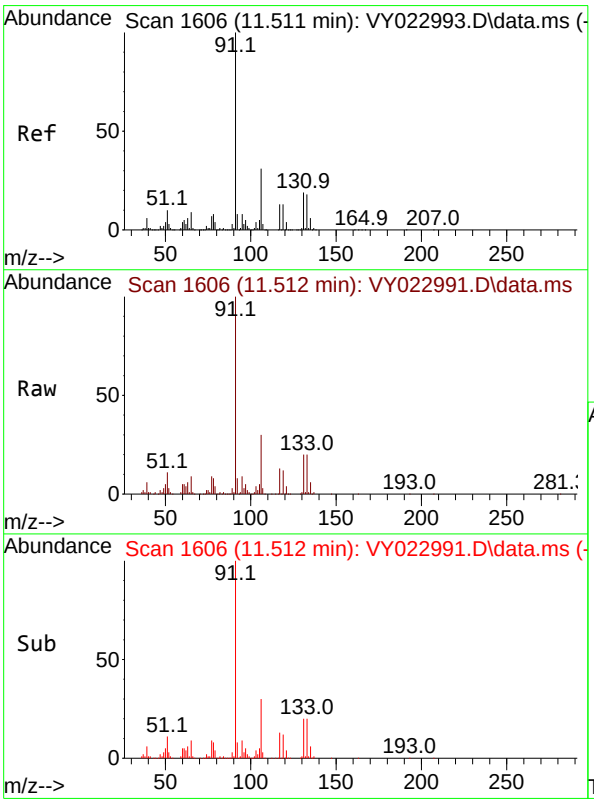
#65
Chlorobenzene
Concen: 9.755 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 146007

Ion	Ratio	Lower	Upper
112	100		
114	29.9	25.4	38.2

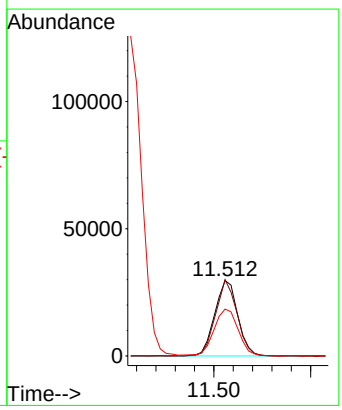


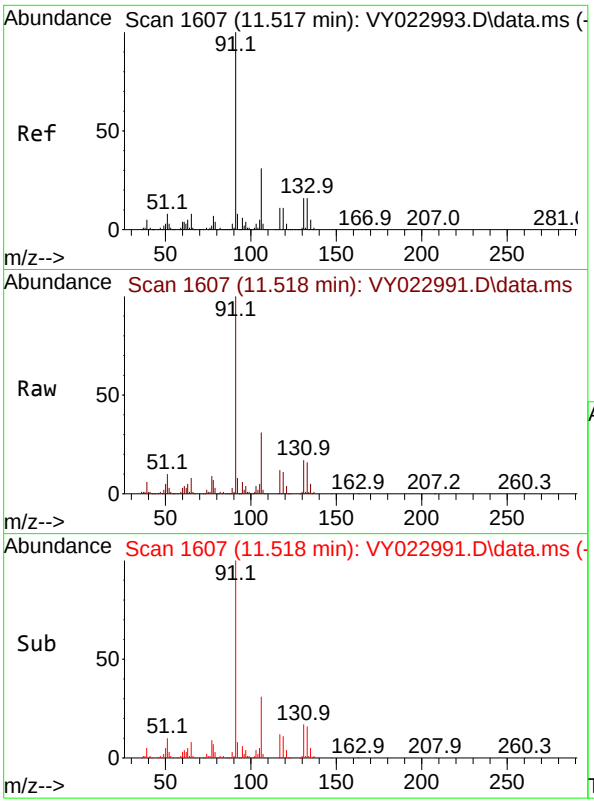


#66
1,1,1,2-Tetrachloroethane
Concen: 9.509 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:131 Resp: 48542

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.8	143.3
119	66.0	33.3	99.8



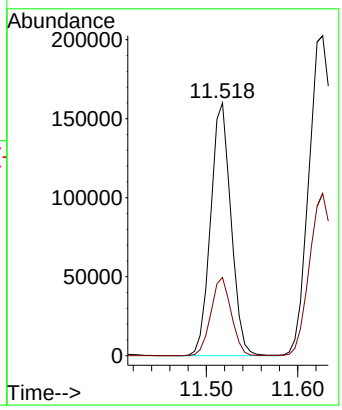


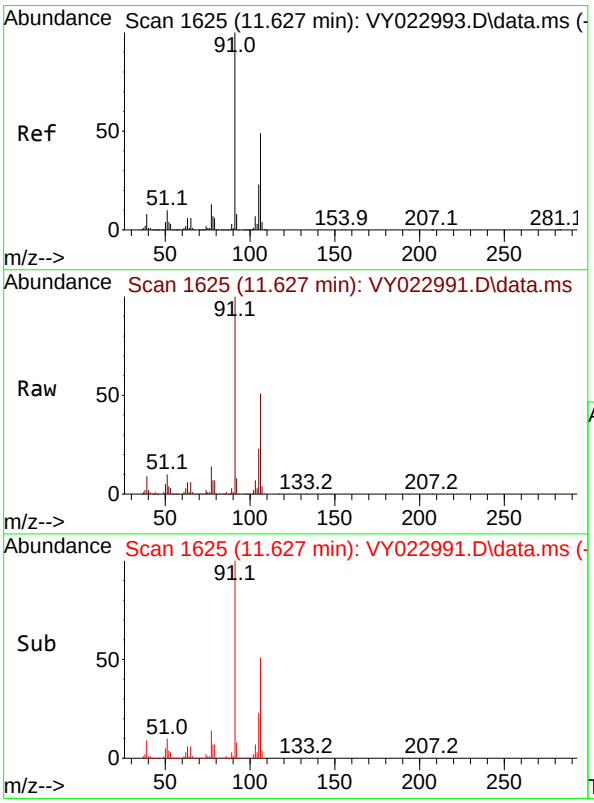
#67
Ethyl Benzene
Concen: 9.331 ug/l
RT: 11.518 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 247552

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0

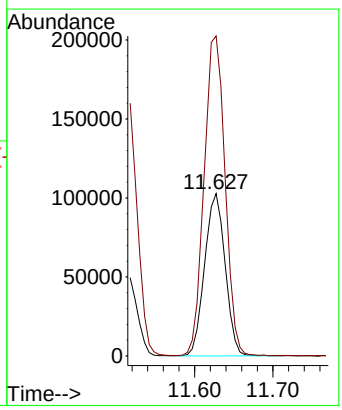


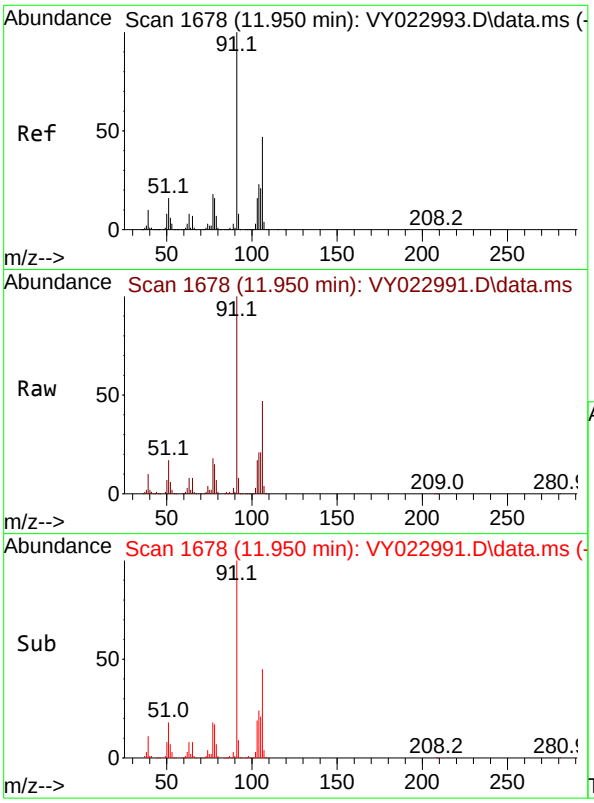


#68
m/p-Xylenes
Concen: 18.350 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:106 Resp: 186725

Ion	Ratio	Lower	Upper
106	100		
91	201.3	159.8	239.8



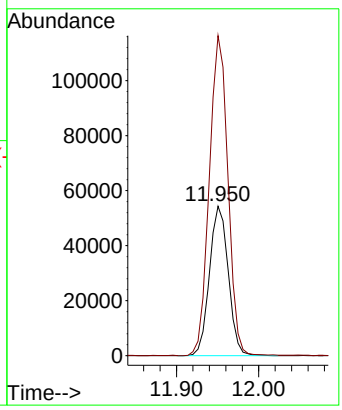


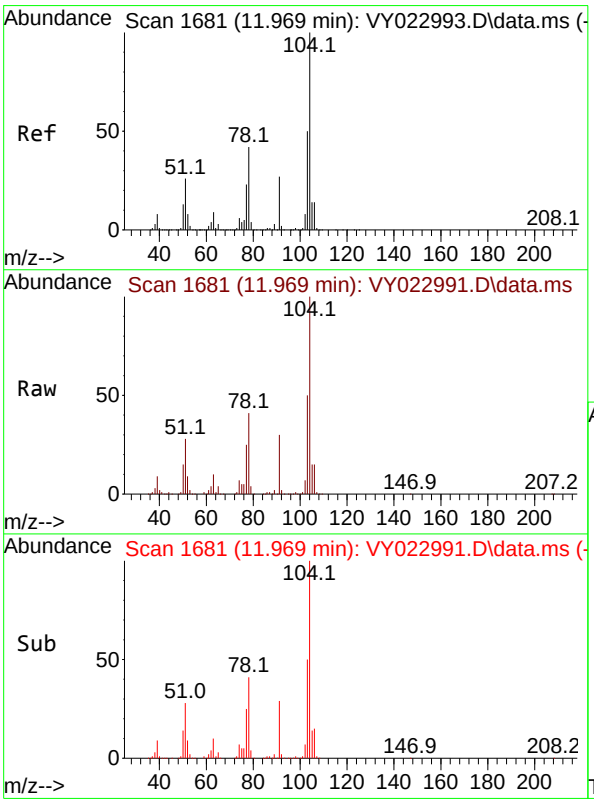
#69
o-Xylene
Concen: 9.127 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 86193

Ion	Ratio	Lower	Upper
106	100		
91	212.6	106.3	318.8

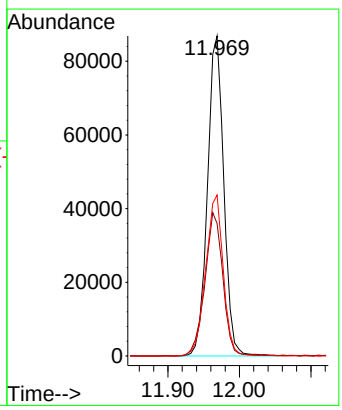


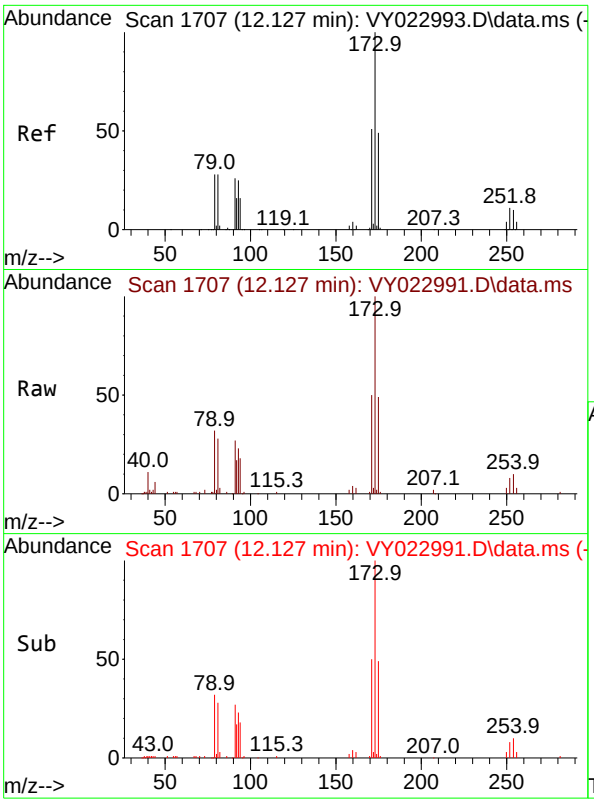


#70
Styrene
Concen: 8.898 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:104 Resp: 137633

Ion	Ratio	Lower	Upper
104	100		
78	49.5	39.0	58.6
103	54.4	43.7	65.5



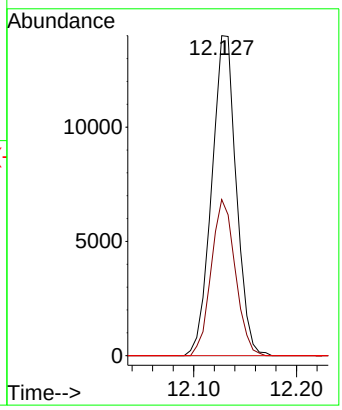


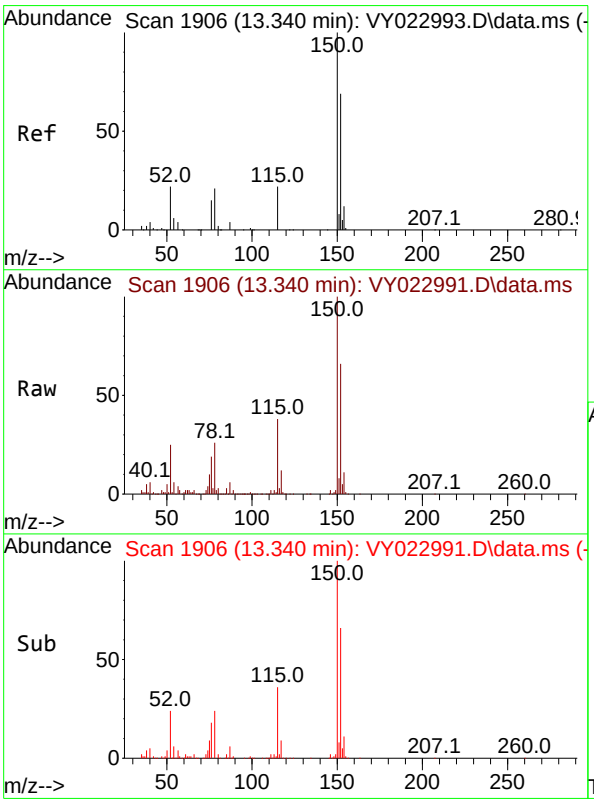
#71
Bromoform
Concen: 8.949 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 23193

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.6	73.8
254	0.0	0.2	0.2#

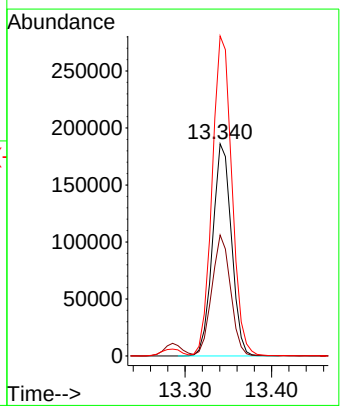


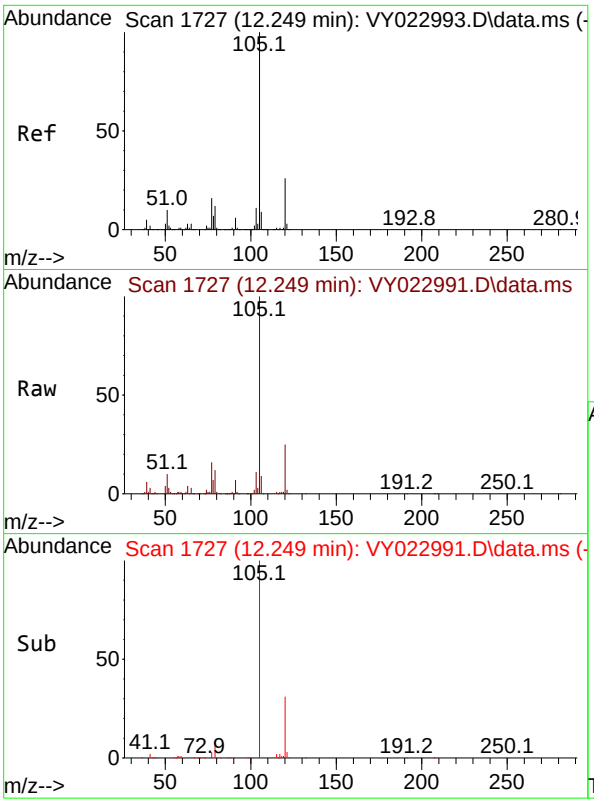


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:152 Resp: 281482

Ion	Ratio	Lower	Upper
152	100		
115	56.6	29.4	88.2
150	157.4	0.0	350.0



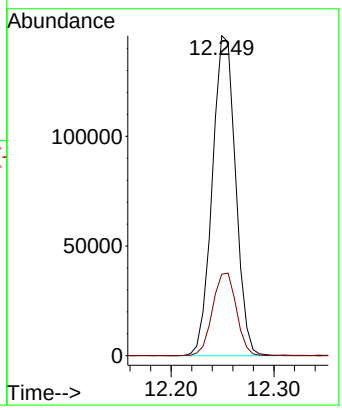


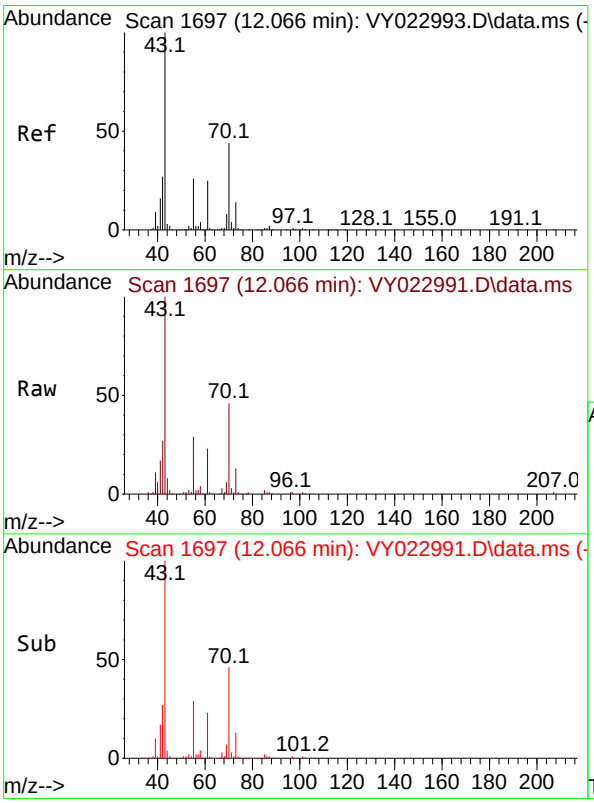
#73
Isopropylbenzene
Concen: 9.608 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 229285

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

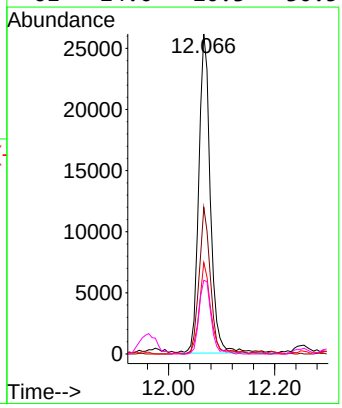


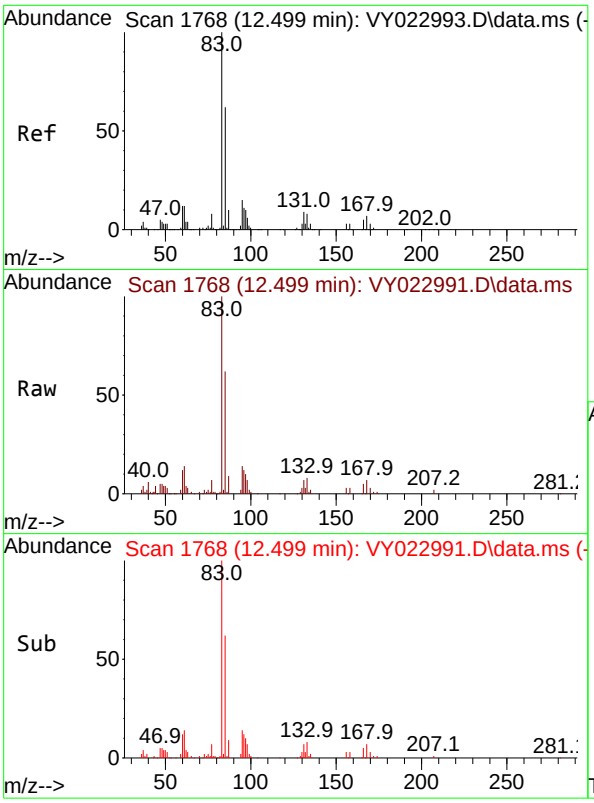


#74
N-amyl acetate
Concen: 8.873 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 43 Resp: 39921

Ion	Ratio	Lower	Upper
43	100		
70	44.1	36.2	54.2
55	28.8	20.9	31.3
61	24.0	20.3	30.5



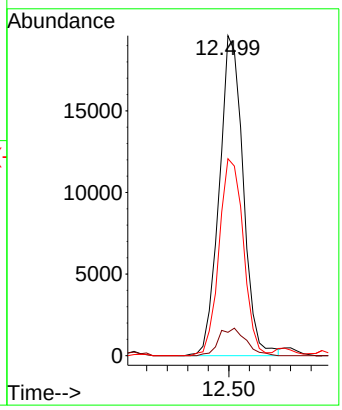


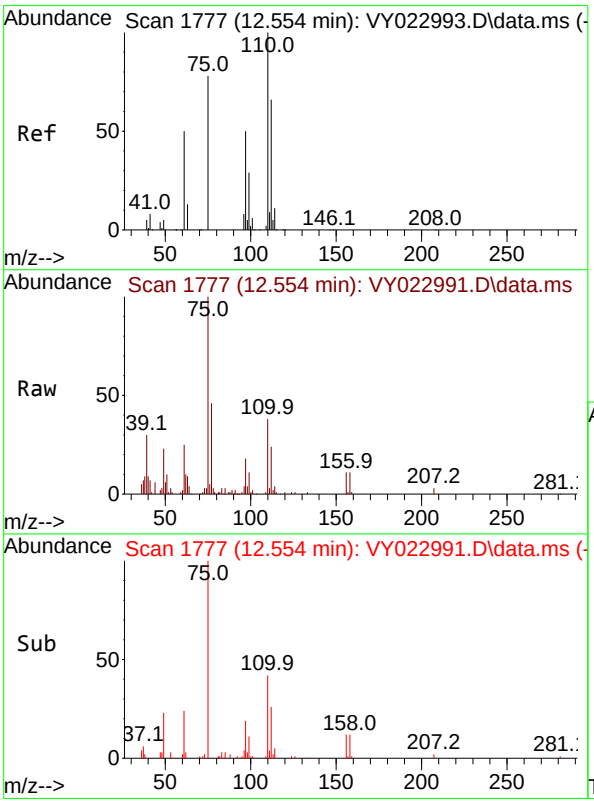
#75
1,1,2,2-Tetrachloroethane
Concen: 9.153 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 31610

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	62.5	31.9	95.7

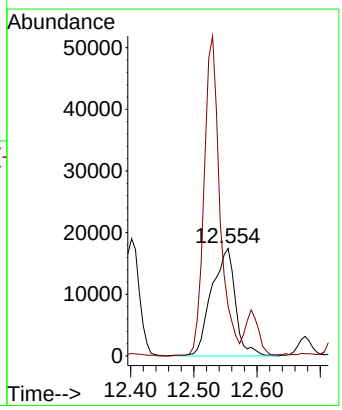


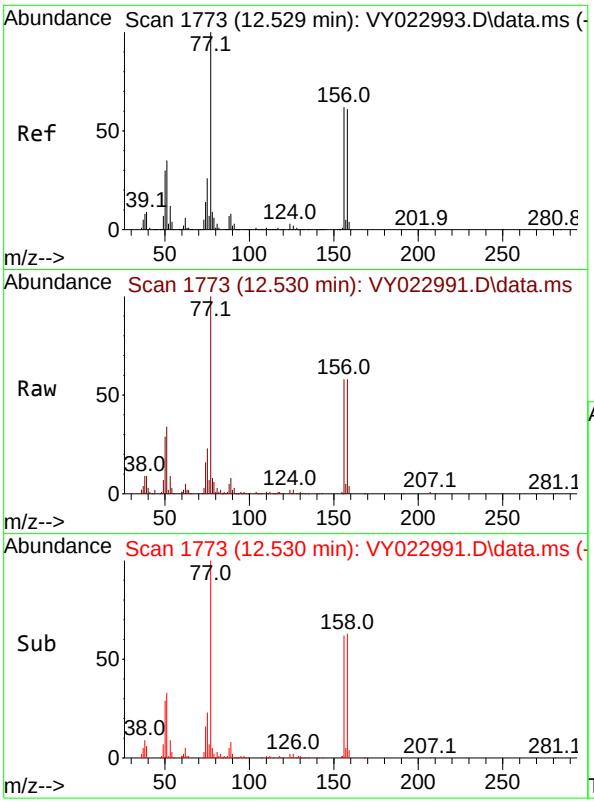


#76
1,2,3-Trichloropropane
Concen: 12.845 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 45505

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



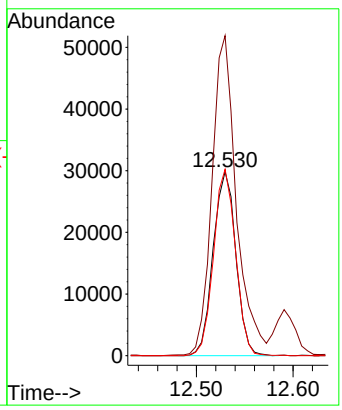


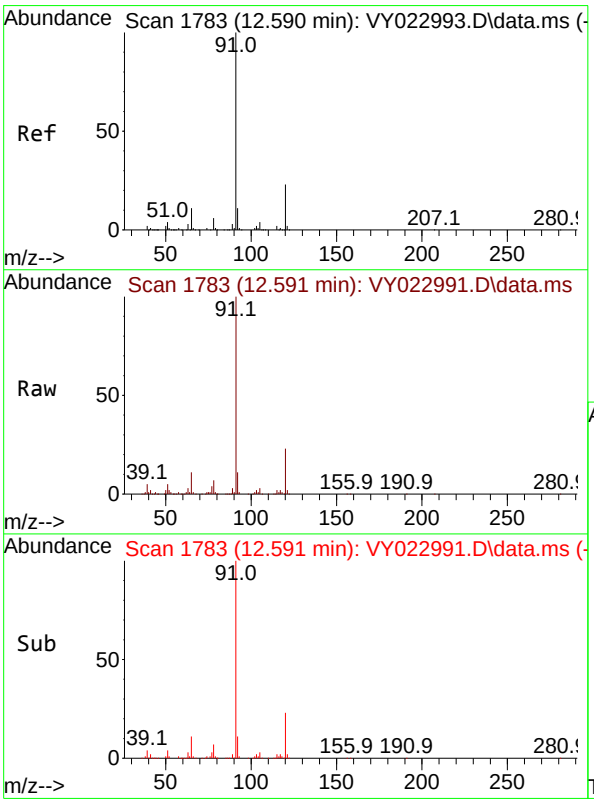
#77
Bromobenzene
Concen: 9.390 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 48601

Ion	Ratio	Lower	Upper
156	100		
77	187.0	92.0	276.1
158	98.2	48.6	145.9

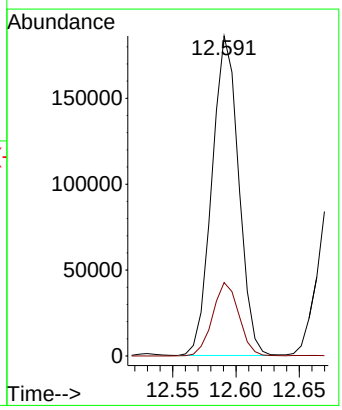


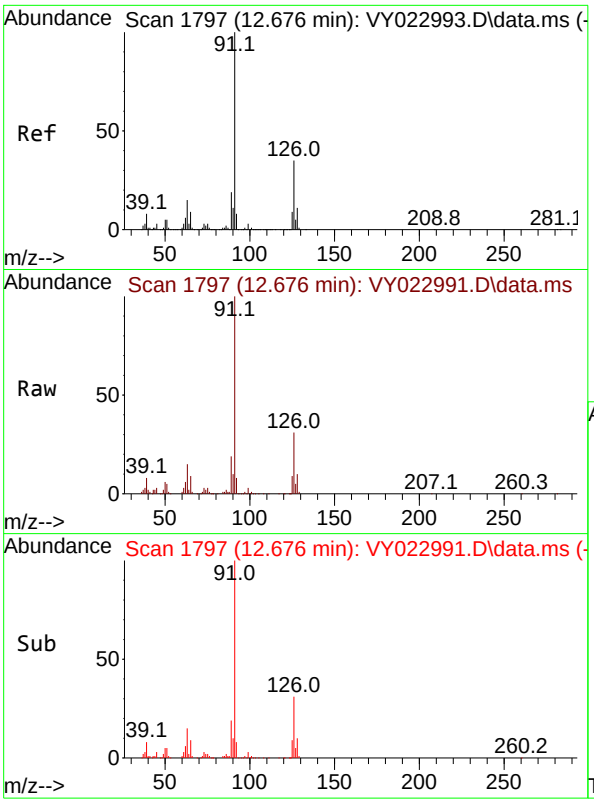


#78
n-propylbenzene
Concen: 9.618 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 91 Resp: 273348

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.8



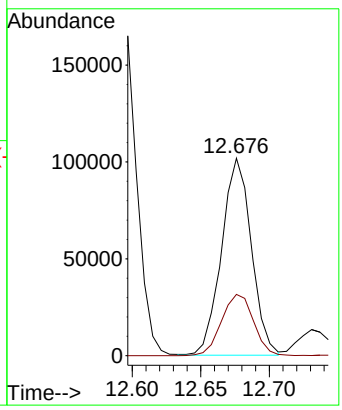


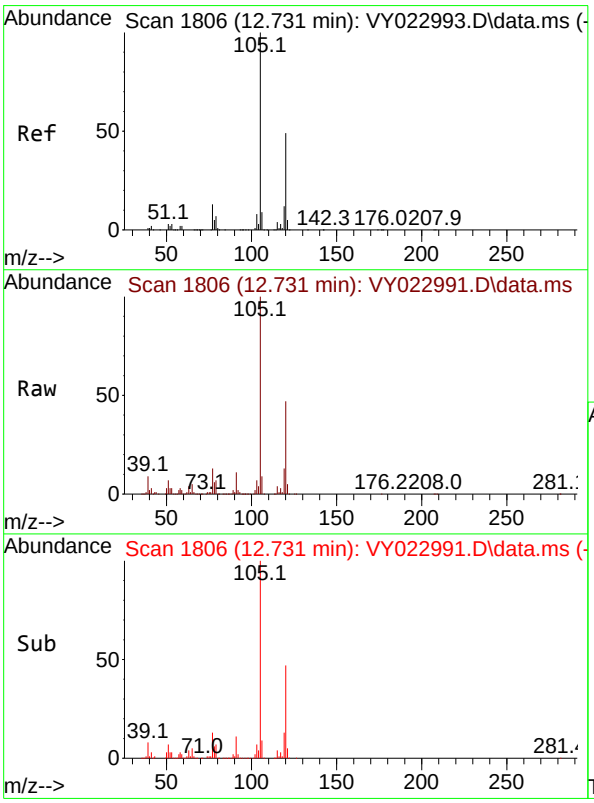
#79
2-Chlorotoluene
Concen: 9.652 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 154267

Ion	Ratio	Lower	Upper
91	100		
126	33.3	17.0	50.9

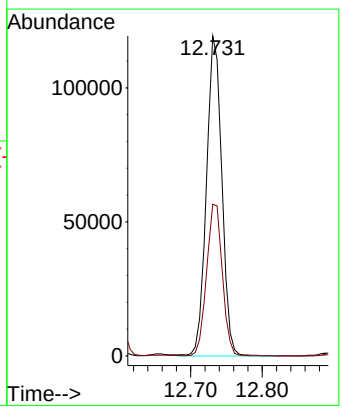


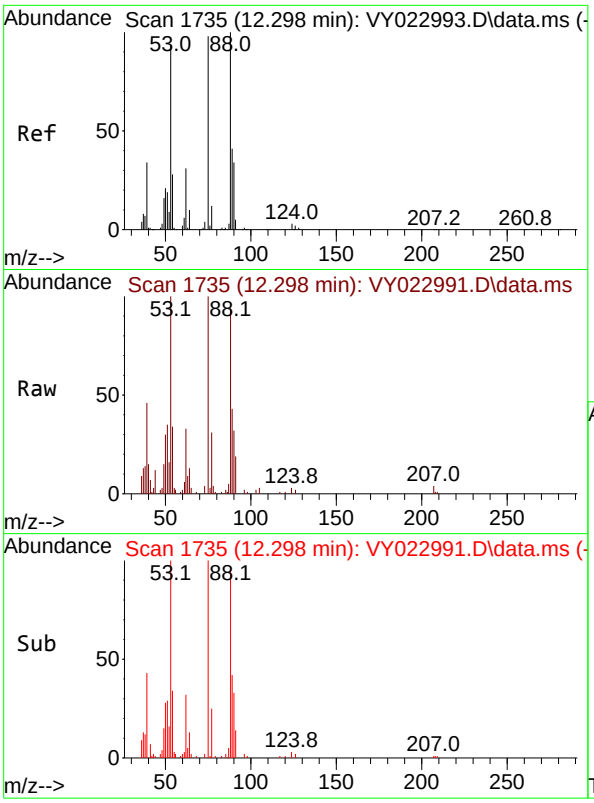


#80
1,3,5-Trimethylbenzene
Concen: 9.486 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:105 Resp: 178551

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.6	73.8



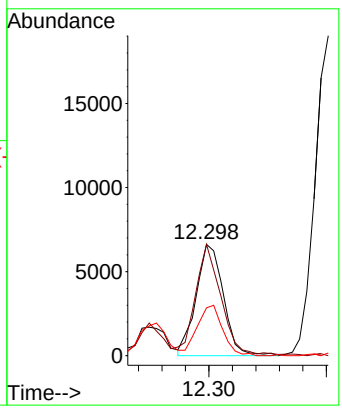


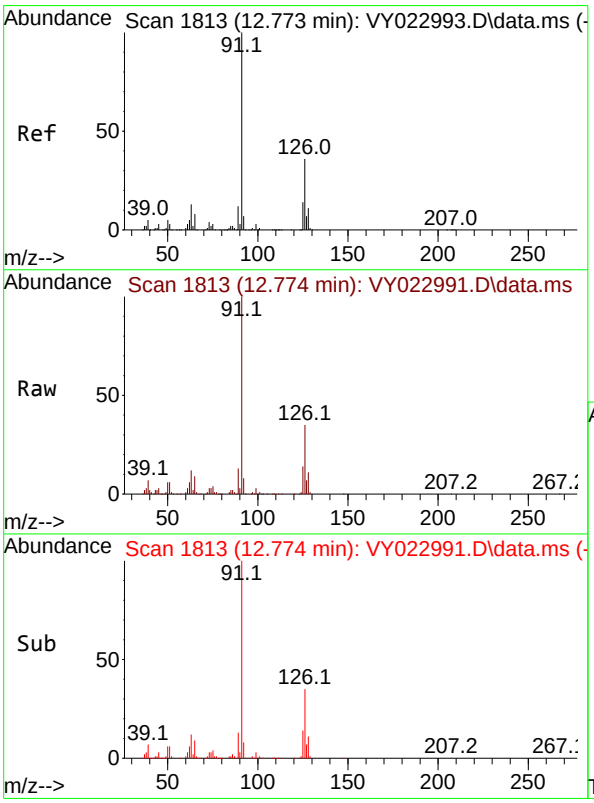
#81
trans-1,4-Dichloro-2-butene
Concen: 9.037 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 10642

Ion	Ratio	Lower	Upper
75	100		
53	96.3	76.1	114.1
89	41.6	36.1	54.1

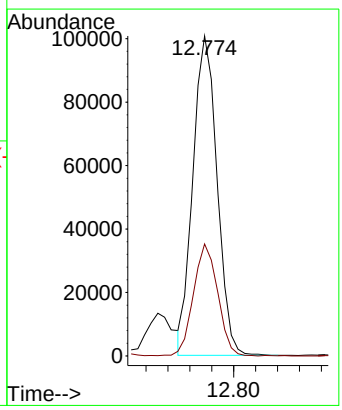


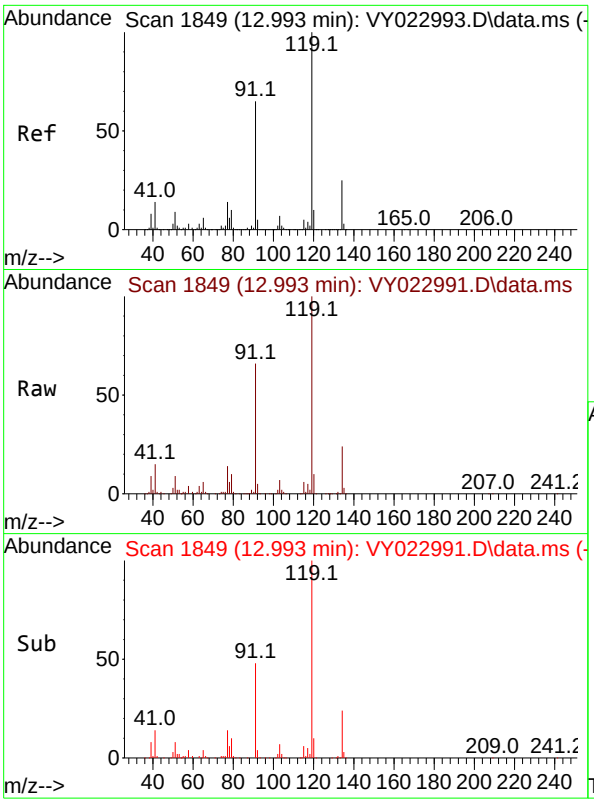


#82
4-Chlorotoluene
Concen: 9.561 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 91 Resp: 154131

Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.2	51.5



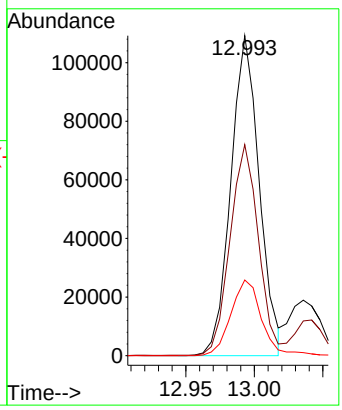


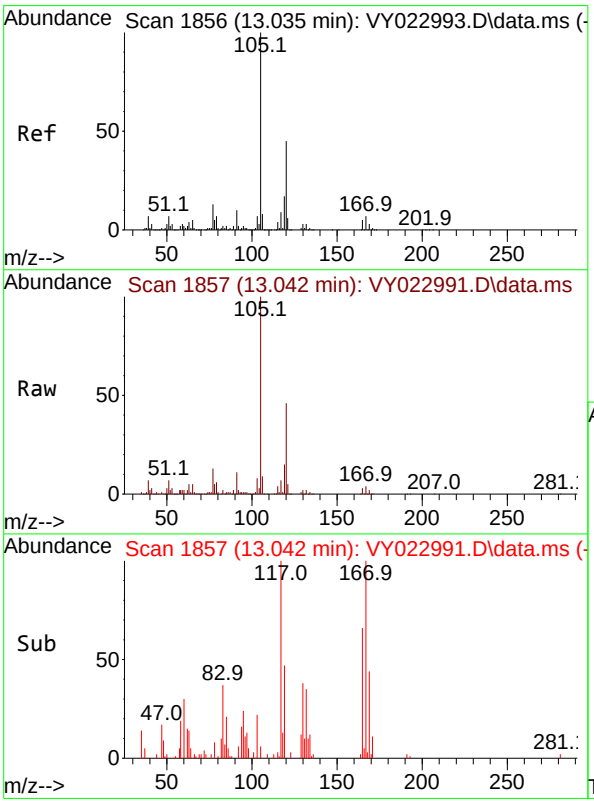
#83
tert-Butylbenzene
Concen: 9.277 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 157733

Ion	Ratio	Lower	Upper
119	100		
91	65.6	32.0	96.2
134	25.7	12.6	37.6

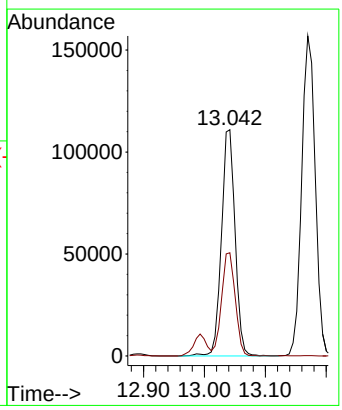


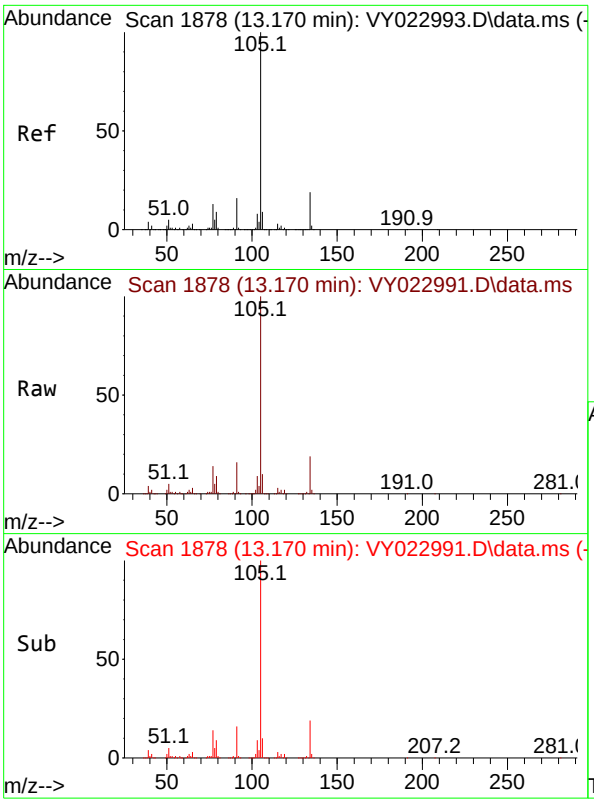


#84
1,2,4-Trimethylbenzene
Concen: 9.297 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:105 Resp: 172262

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.8



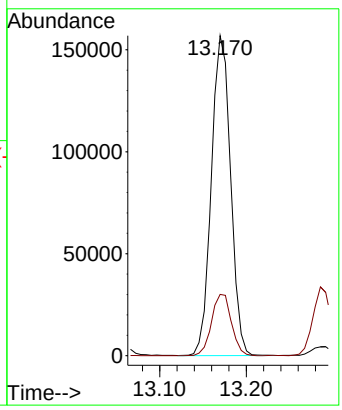


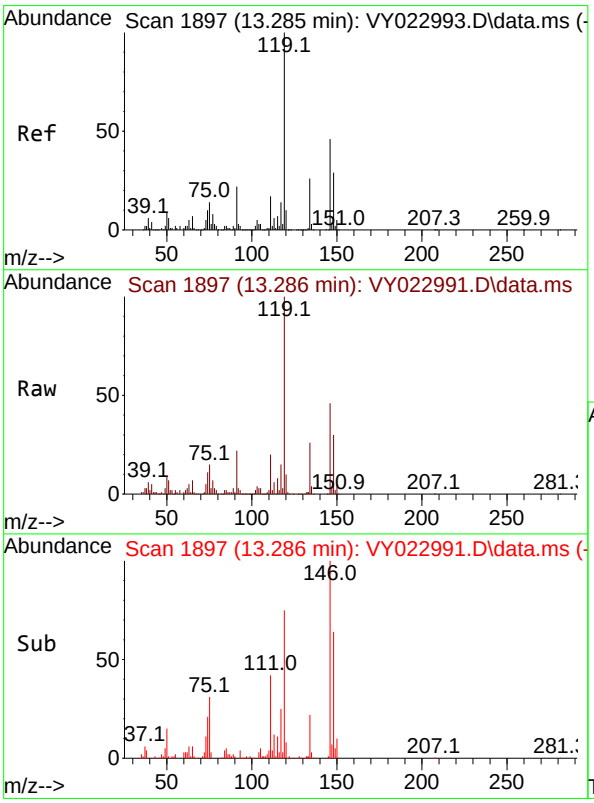
#85
sec-Butylbenzene
Concen: 9.504 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 242143

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

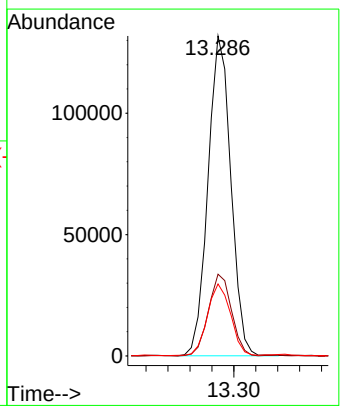


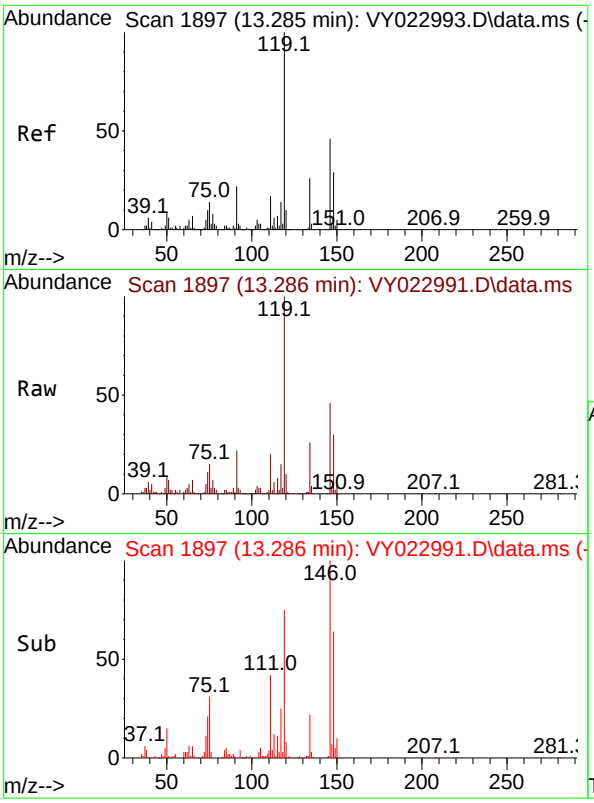


#86
p-Isopropyltoluene
Concen: 9.229 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:119 Resp: 190964

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.1	39.1
91	22.7	11.4	34.1



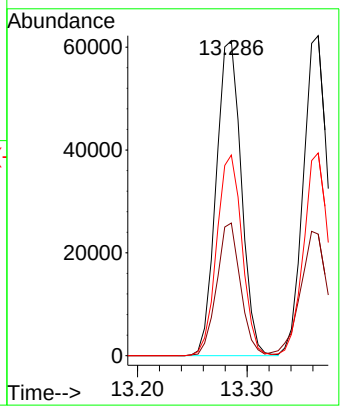


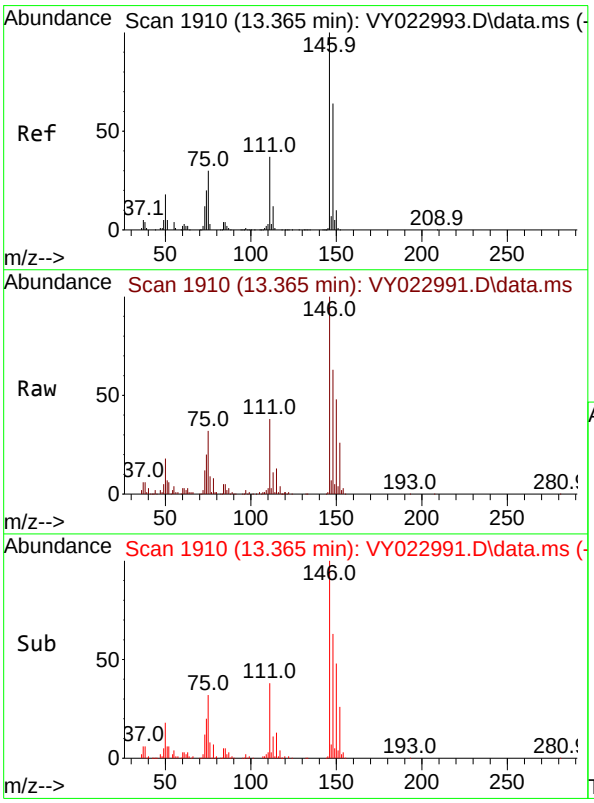
#87
1,3-Dichlorobenzene
Concen: 9.354 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 97707

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.8	59.3
148	64.0	31.6	94.8

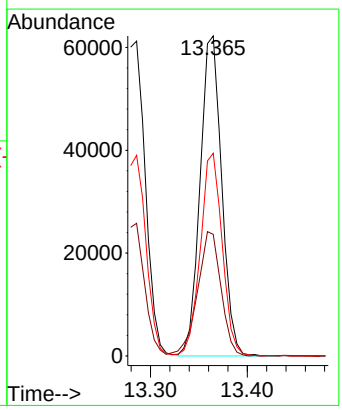


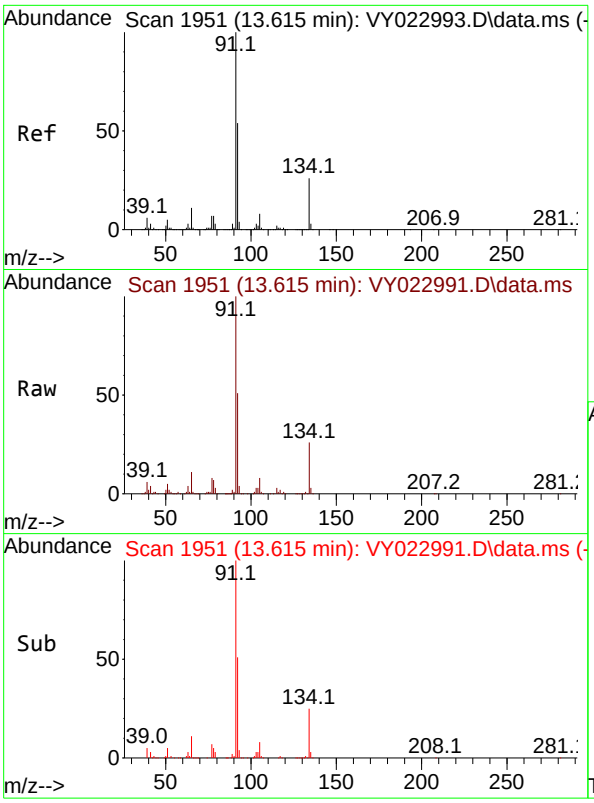


#88
1,4-Dichlorobenzene
Concen: 9.564 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:146 Resp: 96650

Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.2	57.6
148	64.3	31.9	95.5



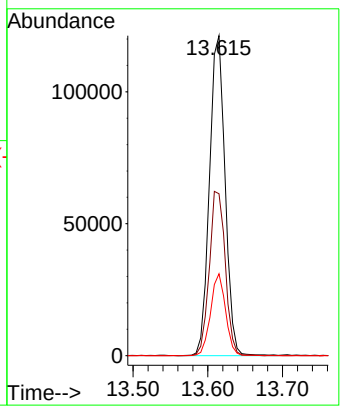


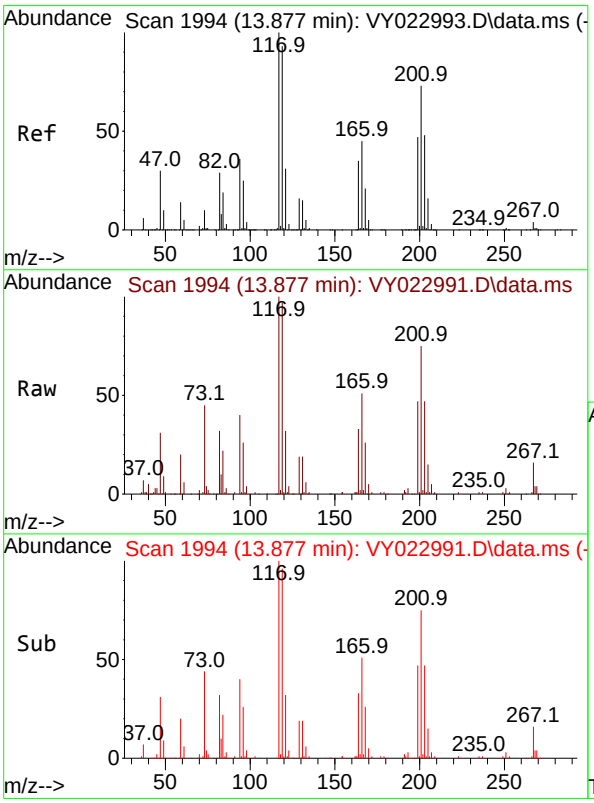
#89
n-Butylbenzene
Concen: 9.249 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 176599

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	24.6	12.6	37.6

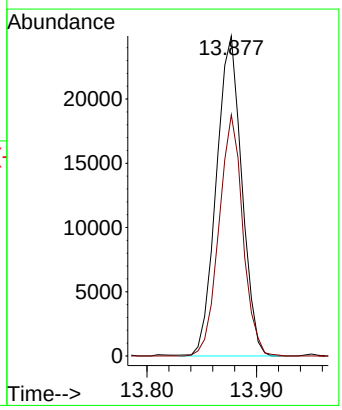


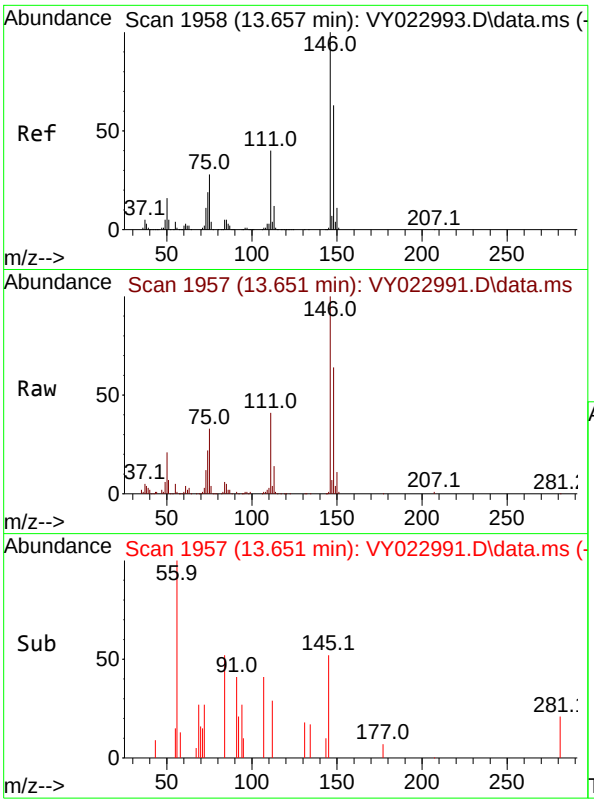


#90
Hexachloroethane
Concen: 9.369 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:117 Resp: 40137

Ion	Ratio	Lower	Upper
117	100		
201	70.6	36.1	108.5



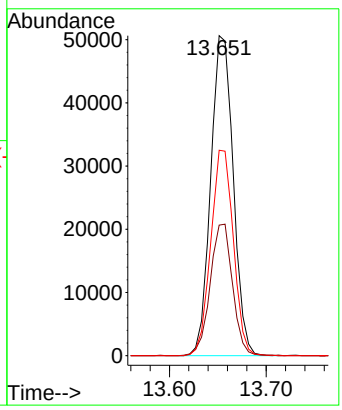


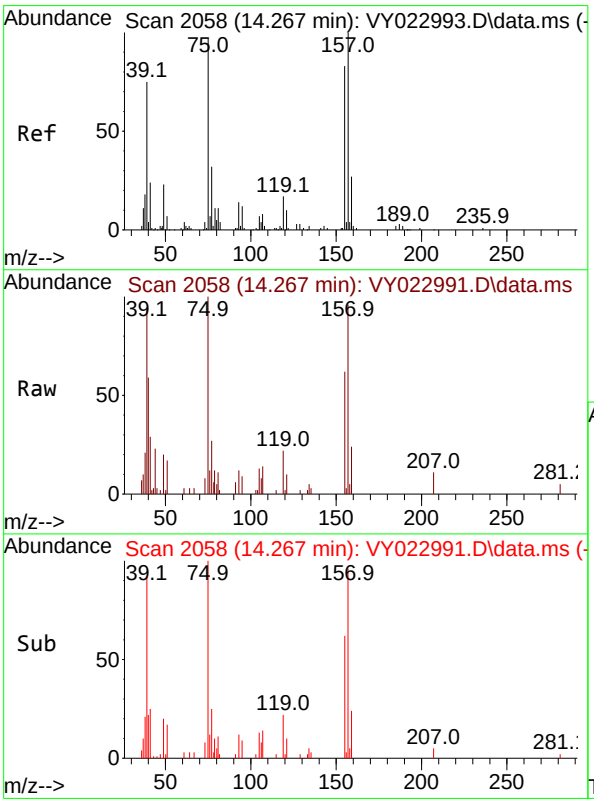
#91
1,2-Dichlorobenzene
Concen: 9.294 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 81887

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	61.0
148	64.5	32.0	96.2

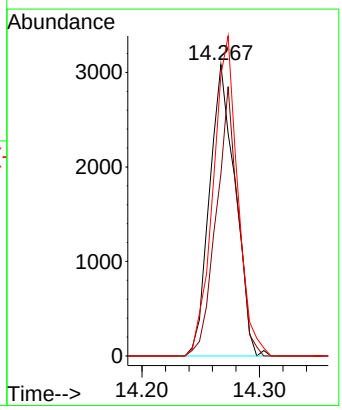


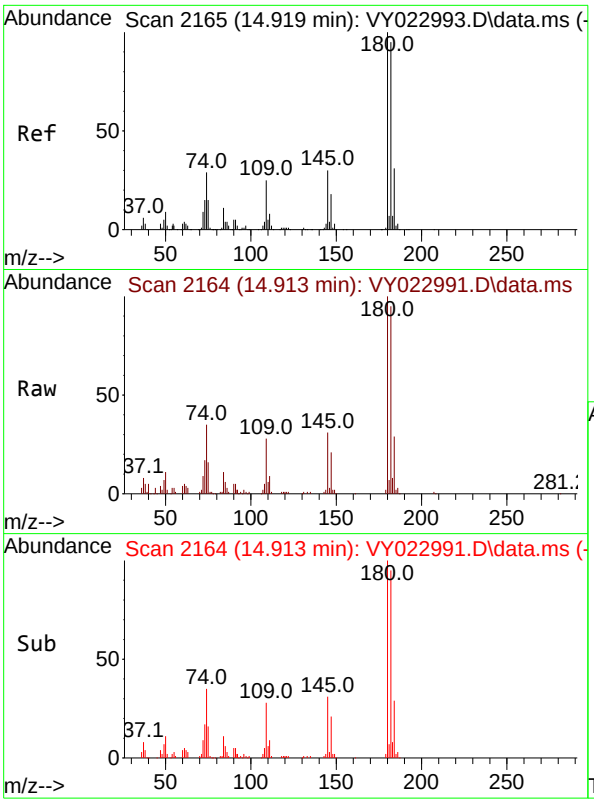


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.166 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion: 75 Resp: 4700

Ion	Ratio	Lower	Upper
75	100		
155	78.3	42.8	128.3
157	105.1	54.3	162.9



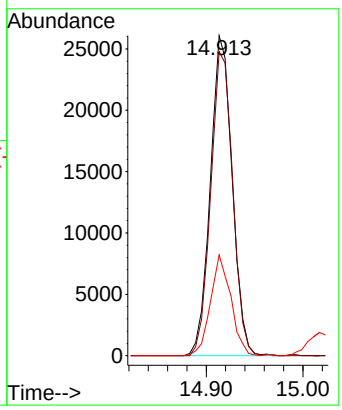


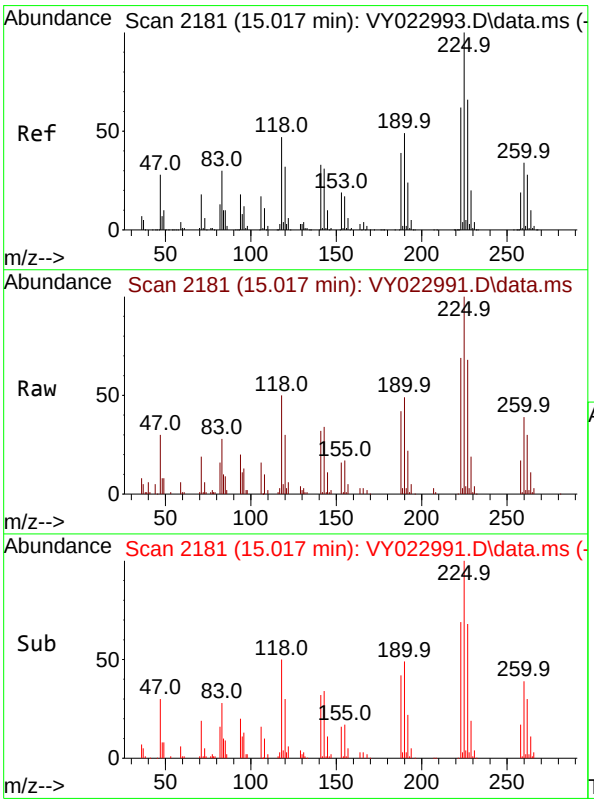
#93
1,2,4-Trichlorobenzene
Concen: 8.800 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 40871

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.5	142.5
145	29.4	14.9	44.9

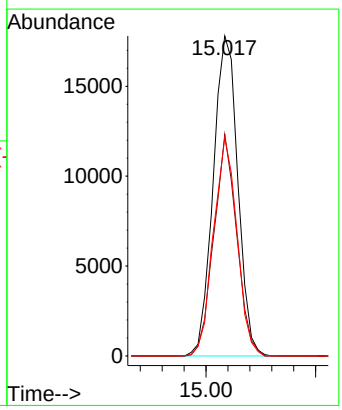


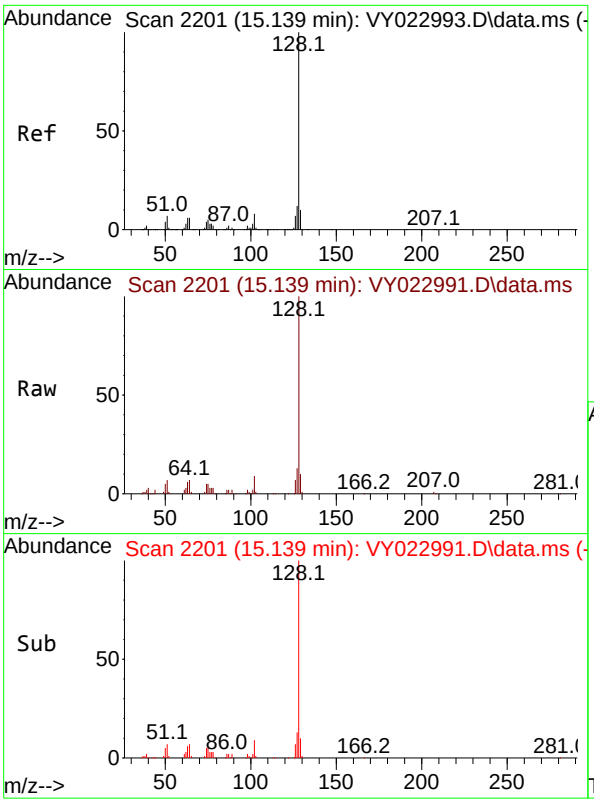


#94
Hexachlorobutadiene
Concen: 9.465 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:225 Resp: 27714

Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.4	94.0
227	65.3	32.1	96.5



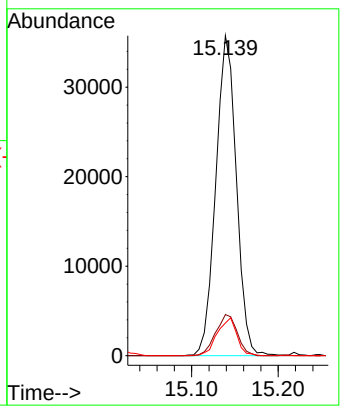


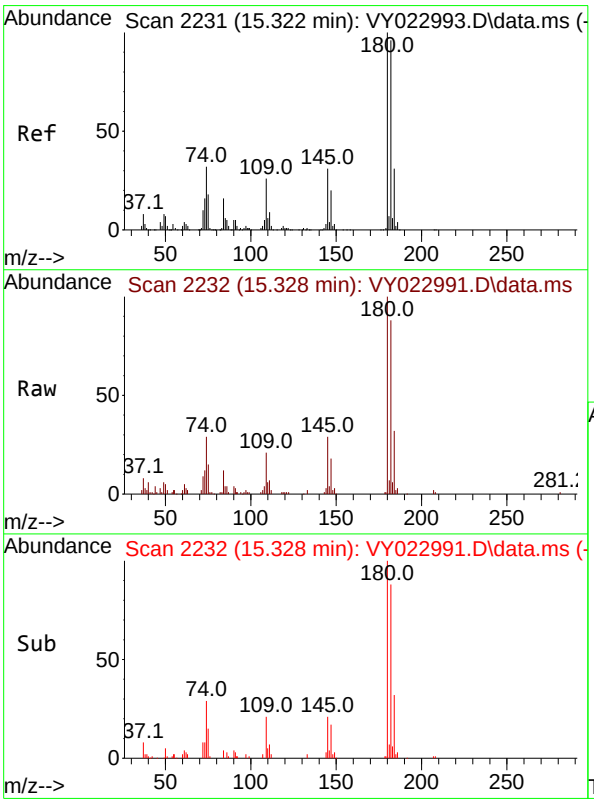
#95
Naphthalene
Concen: 7.926 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 59039

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.2
129	11.3	8.6	12.8

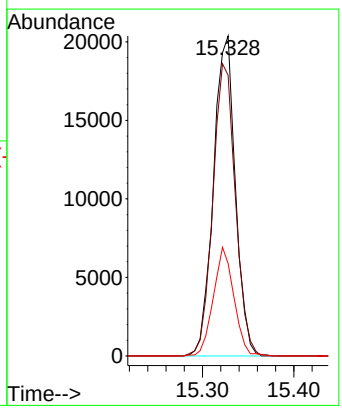




#96
1,2,3-Trichlorobenzene
Concen: 8.846 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY022991.D
Acq: 18 Jul 2025 10:54

Tgt Ion:180 Resp: 33923

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	142.0
145	31.9	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	408920	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	651408	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	541736	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	248244	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	96238	23.248	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 46.500%#			
35) Dibromofluoromethane	7.634	113	97474	23.589	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 47.180%#			
50) Toluene-d8	10.103	98	385999	23.556	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 47.120%#			
62) 4-Bromofluorobenzene	12.402	95	114873	22.270	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 44.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	83107	23.935	ug/l	95
3) Chloromethane	2.074	50	144975	24.556	ug/l	98
4) Vinyl Chloride	2.208	62	185061	24.741	ug/l	100
5) Bromomethane	2.592	94	129537	23.996	ug/l	98
6) Chloroethane	2.739	64	119604	23.942	ug/l	95
7) Trichlorofluoromethane	3.056	101	204047	23.500	ug/l	100
8) Diethyl Ether	3.452	74	51301	22.575	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	111028	24.342	ug/l	100
10) Methyl Iodide	4.007	142	113170	23.883	ug/l	98
11) Tert butyl alcohol	4.860	59	28061	111.476	ug/l	96
12) 1,1-Dichloroethene	3.793	96	102333	23.551	ug/l	99
13) Acrolein	3.653	56	19800	174.501	ug/l	100
14) Allyl chloride	4.385	41	153543	23.195	ug/l	97
15) Acrylonitrile	5.055	53	96516	112.128	ug/l	99
16) Acetone	3.873	43	88498	117.937	ug/l	97
17) Carbon Disulfide	4.104	76	320990	24.374	ug/l	100
18) Methyl Acetate	4.391	43	57450	22.614	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	237393	22.778	ug/l	97
20) Methylene Chloride	4.616	84	152623	24.700	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	115595	23.899	ug/l	98
22) Diisopropyl ether	6.019	45	325183	23.155	ug/l	99
23) Vinyl Acetate	5.958	43	808683	114.282	ug/l	100
24) 1,1-Dichloroethane	5.915	63	206224	23.379	ug/l	99
25) 2-Butanone	6.890	43	119127	110.662	ug/l	99
26) 2,2-Dichloropropane	6.884	77	181752	23.510	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	128882	23.120	ug/l	97
28) Bromochloromethane	7.244	49	79854	23.340	ug/l	98
29) Tetrahydrofuran	7.262	42	78302	114.888	ug/l	98
30) Chloroform	7.415	83	207172	23.282	ug/l	97
31) Cyclohexane	7.701	56	192200	23.319	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	190105	23.546	ug/l	99
36) 1,1-Dichloropropene	7.835	75	156287	24.012	ug/l	99
37) Ethyl Acetate	6.988	43	53987	22.333	ug/l	99
38) Carbon Tetrachloride	7.817	117	168861	23.880	ug/l	97
39) Methylcyclohexane	9.109	83	199123	23.636	ug/l	97
40) Benzene	8.079	78	462756	23.613	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	23752	18.616	ug/l	#	83
42) 1,2-Dichloroethane	8.158	62	113164	23.210	ug/l		98
43) Isopropyl Acetate	8.195	43	109734	22.853	ug/l	#	86
44) Trichloroethene	8.866	130	117248	23.293	ug/l		96
45) 1,2-Dichloropropane	9.140	63	107925	23.583	ug/l		100
46) Dibromomethane	9.231	93	54583	23.074	ug/l		99
47) Bromodichloromethane	9.420	83	153091	23.413	ug/l		100
48) Methyl methacrylate	9.219	41	52108	22.478	ug/l		99
49) 1,4-Dioxane	9.231	88	10878	436.257	ug/l		95
51) 4-Methyl-2-Pentanone	9.993	43	276366	113.395	ug/l		98
52) Toluene	10.170	92	283471	23.265	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	128369	22.870	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	157554	23.288	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	71370	22.955	ug/l		95
56) Ethyl methacrylate	10.438	69	84006	21.644	ug/l		99
57) 1,3-Dichloropropane	10.713	76	124222	23.129	ug/l		97
58) 2-Chloroethyl Vinyl ether	9.707	63	199993	105.265	ug/l		98
59) 2-Hexanone	10.762	43	176582	110.226	ug/l		100
60) Dibromochloromethane	10.908	129	93599	22.990	ug/l		99
61) 1,2-Dibromoethane	11.012	107	64601	22.880	ug/l		100
64) Tetrachloroethene	10.646	164	122138	22.057	ug/l		92
65) Chlorobenzene	11.438	112	293874	22.989	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.511	131	99114	22.732	ug/l		99
67) Ethyl Benzene	11.518	91	522955	23.080	ug/l		97
68) m/p-Xylenes	11.627	106	402055	46.261	ug/l		99
69) o-Xylene	11.950	106	186047	23.067	ug/l		98
70) Styrene	11.969	104	303236	22.952	ug/l		100
71) Bromoform	12.127	173	48429	21.879	ug/l	#	100
73) Isopropylbenzene	12.255	105	497888	23.656	ug/l		100
74) N-amyl acetate	12.066	43	86729	21.857	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	74385	24.423	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	98962	31.675	ug/l	#	100
77) Bromobenzene	12.530	156	105553	23.124	ug/l		99
78) n-propylbenzene	12.591	91	596905	23.816	ug/l		99
79) 2-Chlorotoluene	12.676	91	331602	23.524	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	389641	23.473	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	23253	22.390	ug/l		97
82) 4-Chlorotoluene	12.773	91	330802	23.268	ug/l		99
83) tert-Butylbenzene	12.993	119	352211	23.490	ug/l		97
84) 1,2,4-Trimethylbenzene	13.042	105	382534	23.411	ug/l		99
85) sec-Butylbenzene	13.170	105	534996	23.809	ug/l		100
86) p-Isopropyltoluene	13.286	119	428741	23.494	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	210649	22.867	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	204733	22.973	ug/l		100
89) n-Butylbenzene	13.615	91	396249	23.531	ug/l		100
90) Hexachloroethane	13.877	117	88795	23.502	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	177792	22.880	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10028	22.174	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	93971	22.942	ug/l		98
94) Hexachlorobutadiene	15.017	225	62599	24.242	ug/l		98
95) Naphthalene	15.139	128	139330	21.209	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	75143	22.219	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

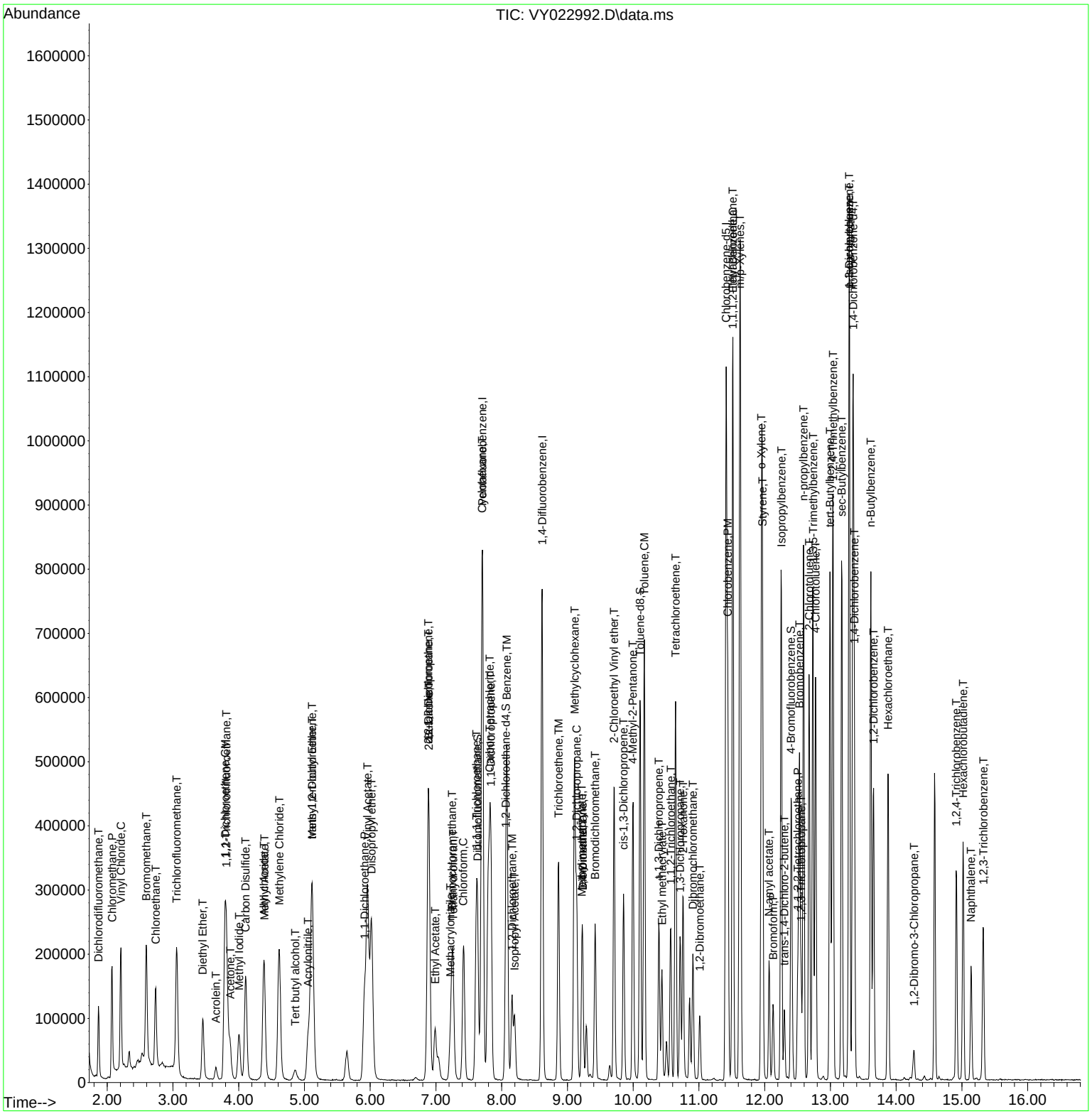
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

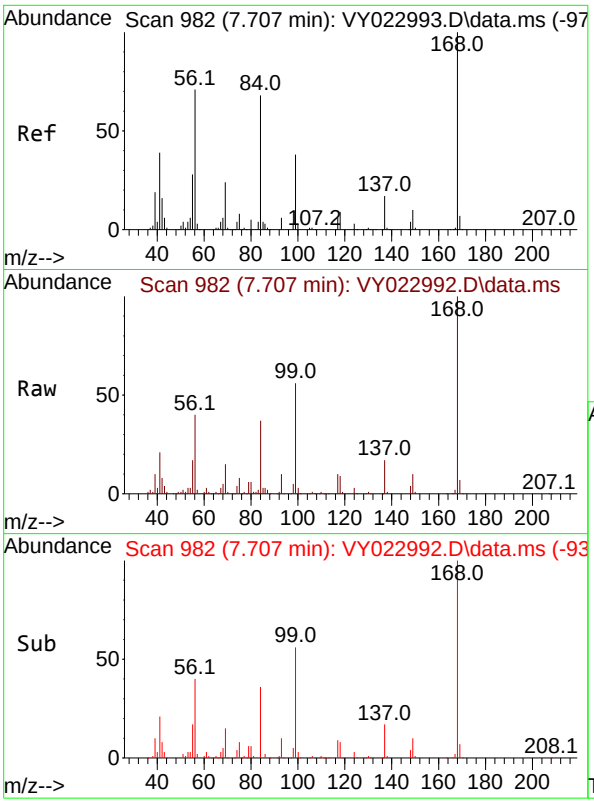
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022992.D
Acq On : 18 Jul 2025 11:41
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Jul 19 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration



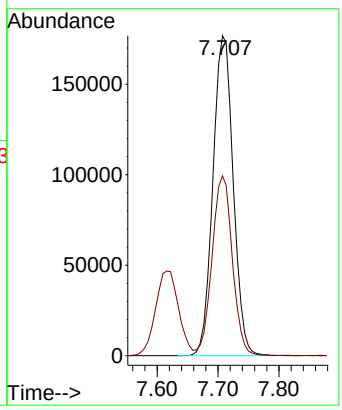


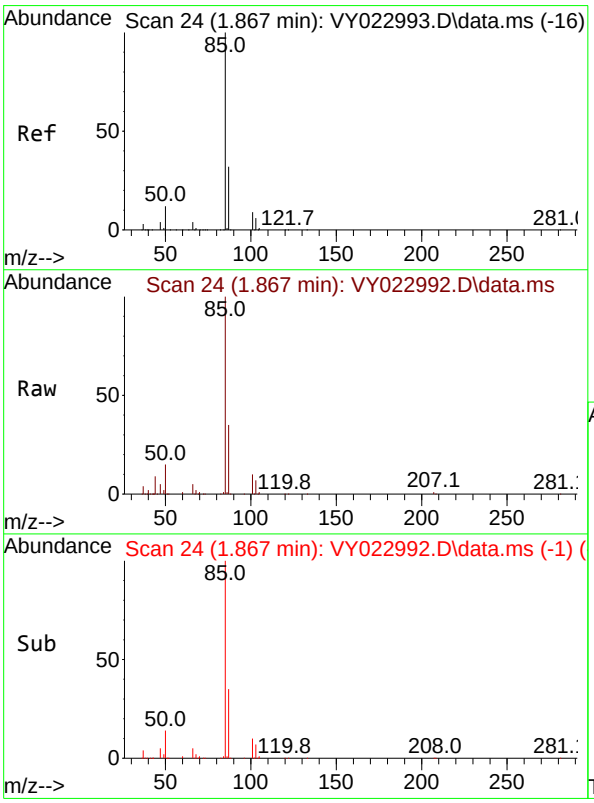
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 408920

Ion	Ratio	Lower	Upper
168	100		
99	56.1	44.4	66.6

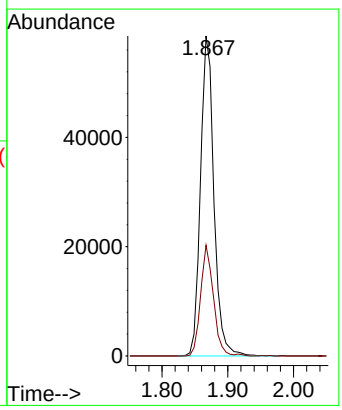


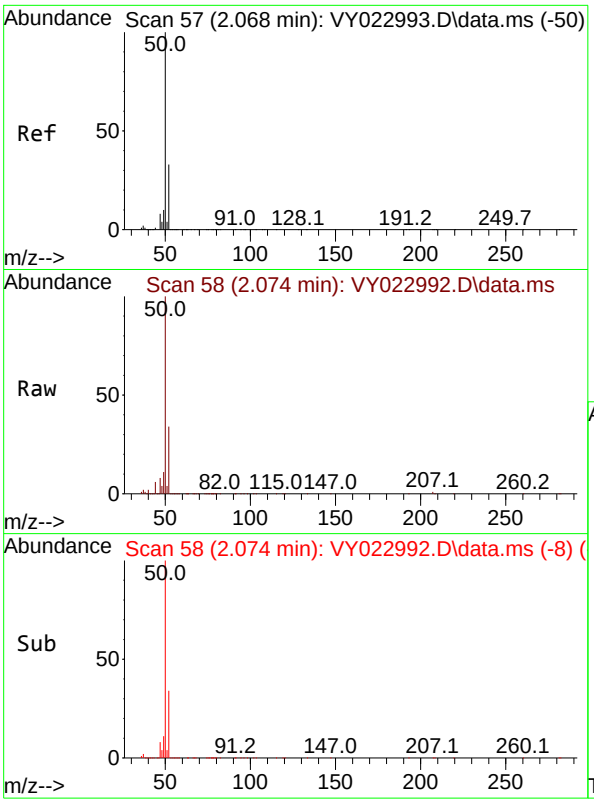


#2
Dichlorodifluoromethane
Concen: 23.935 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 85 Resp: 83107

Ion	Ratio	Lower	Upper
85	100		
87	34.6	16.0	47.9



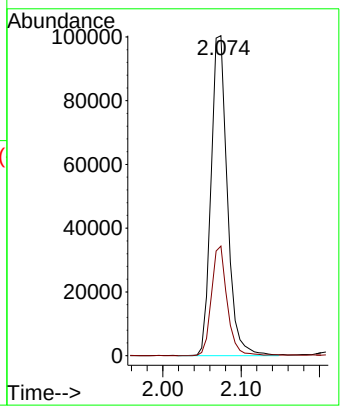


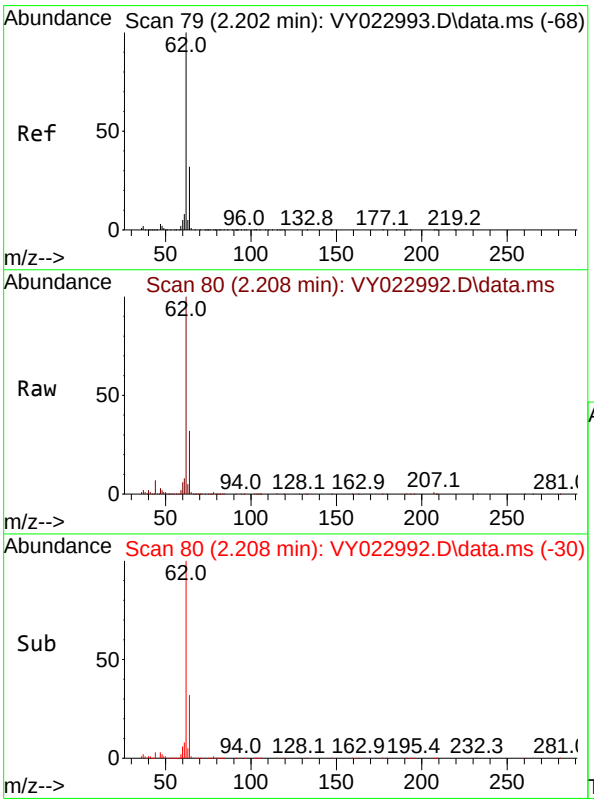
#3
Chloromethane
Concen: 24.556 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 144975

Ion	Ratio	Lower	Upper
50	100		
52	34.2	26.6	39.8

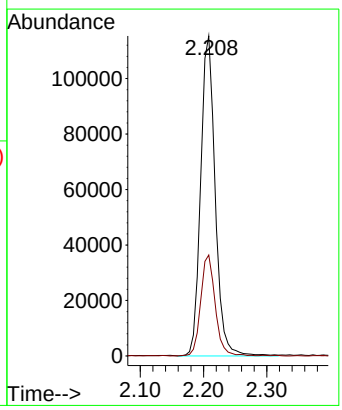


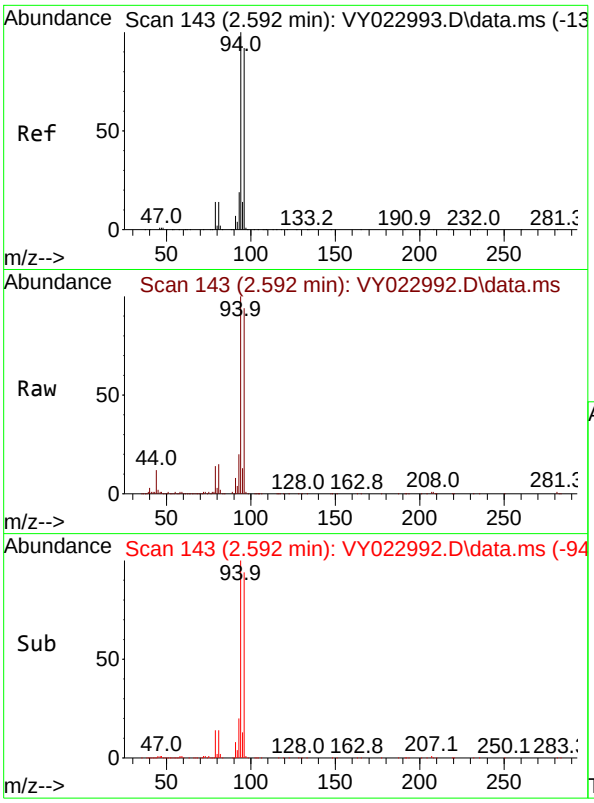


#4
Vinyl Chloride
Concen: 24.741 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 62 Resp: 185061

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8



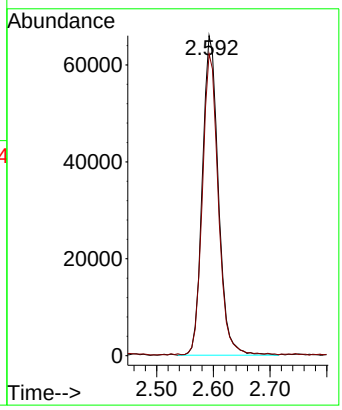


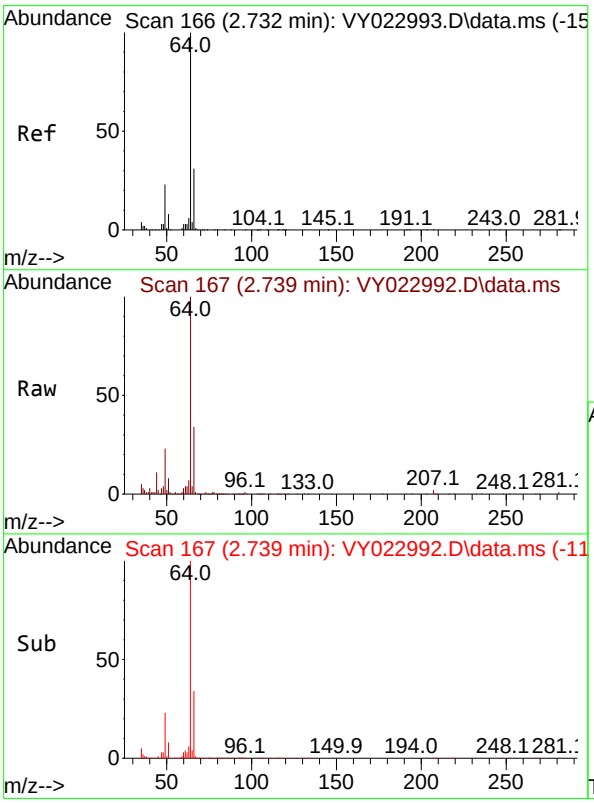
#5
Bromomethane
Concen: 23.996 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 129537

Ion	Ratio	Lower	Upper
94	100		
96	94.2	73.9	110.9

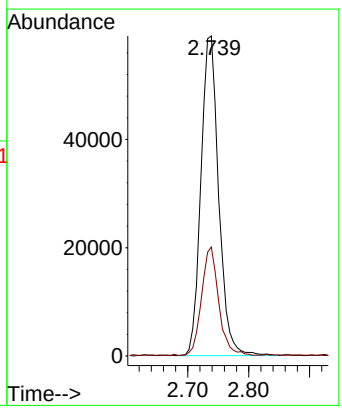


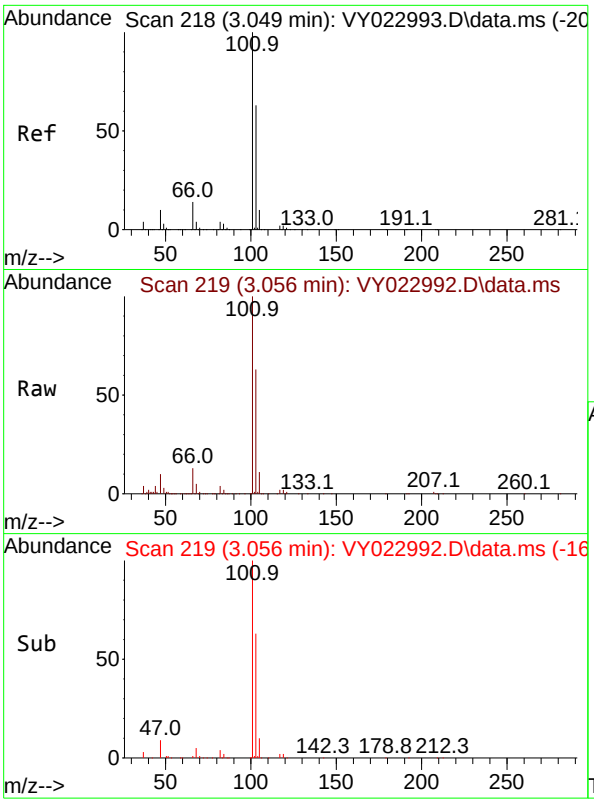


#6
Chloroethane
Concen: 23.942 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 64 Resp: 119604

Ion	Ratio	Lower	Upper
64	100		
66	33.9	24.9	37.3



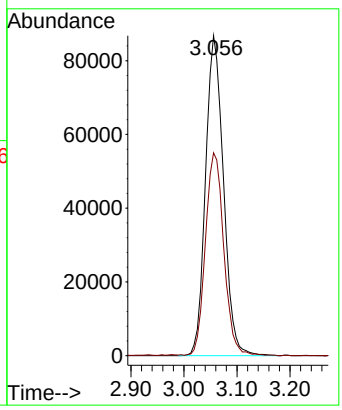


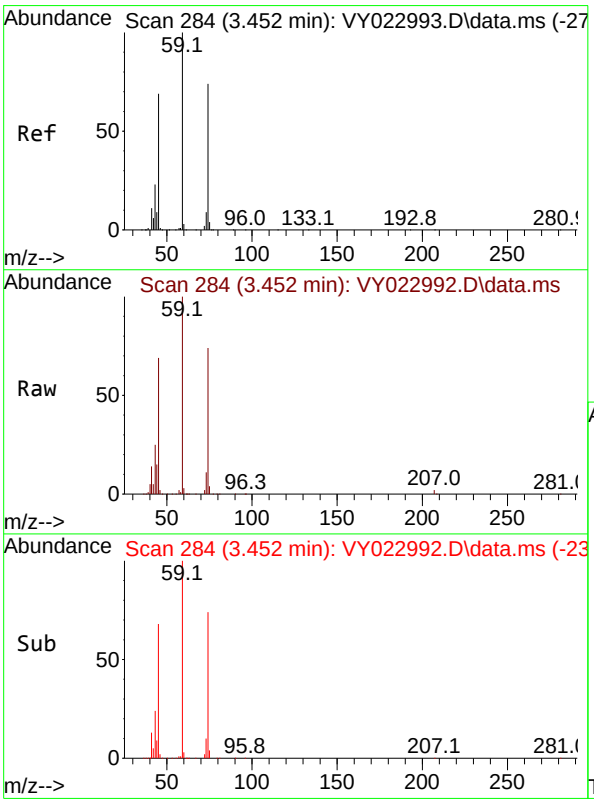
#7
Trichlorofluoromethane
Concen: 23.500 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 204047

Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.7	76.1

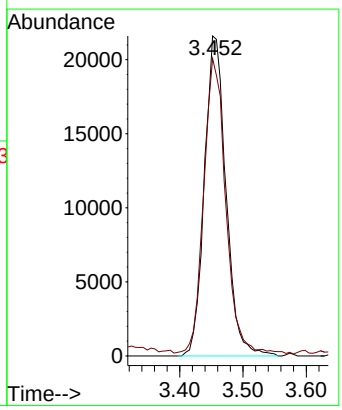


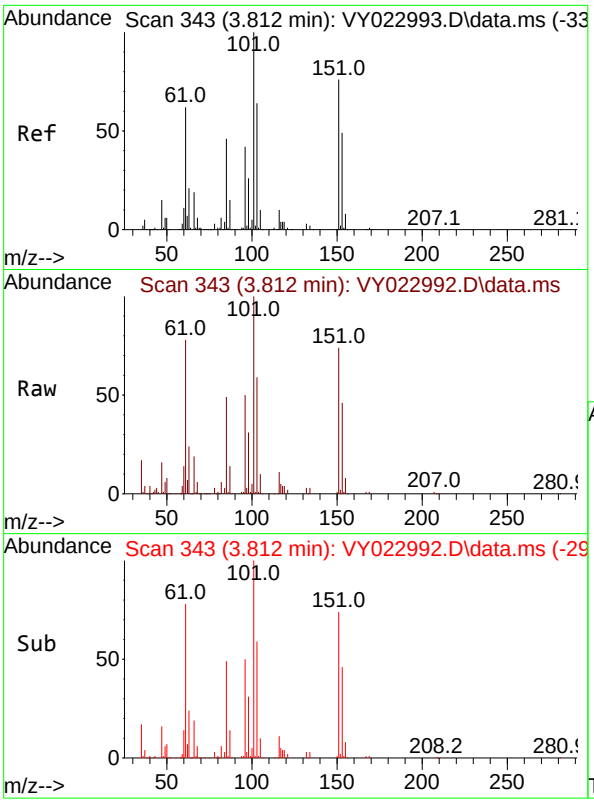


#8
Diethyl Ether
Concen: 22.575 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 74 Resp: 51301

Ion	Ratio	Lower	Upper
74	100		
45	94.4	45.1	135.2



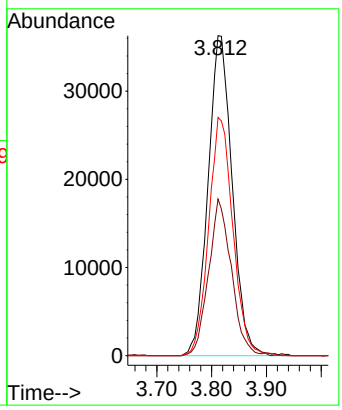


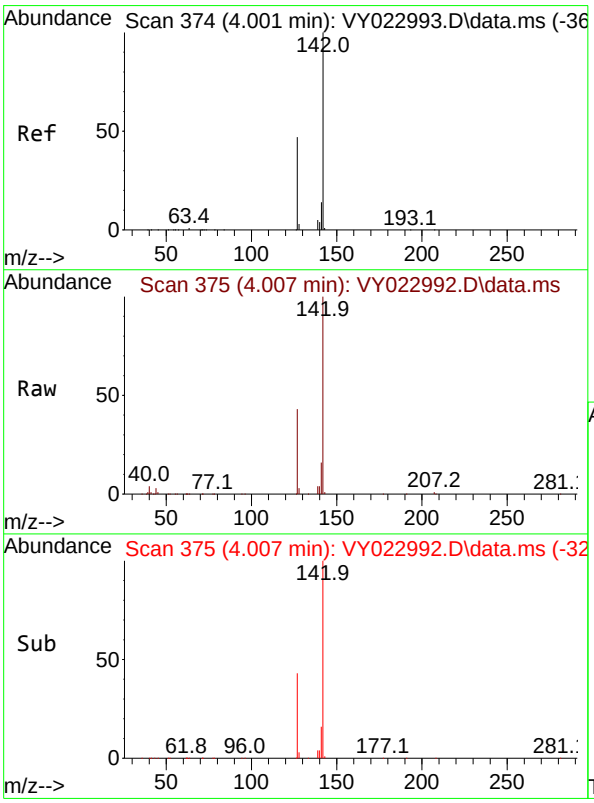
#9
1,1,2-Trichlorotrifluoroethane
Concen: 24.342 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 111028

Ion	Ratio	Lower	Upper
101	100		
85	46.3	37.2	55.8
151	74.7	59.7	89.5

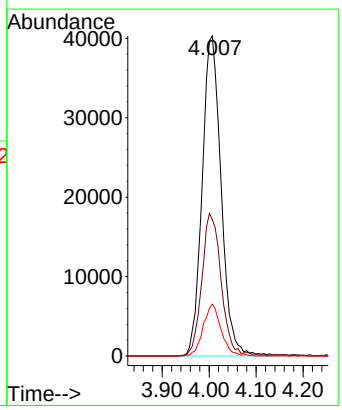


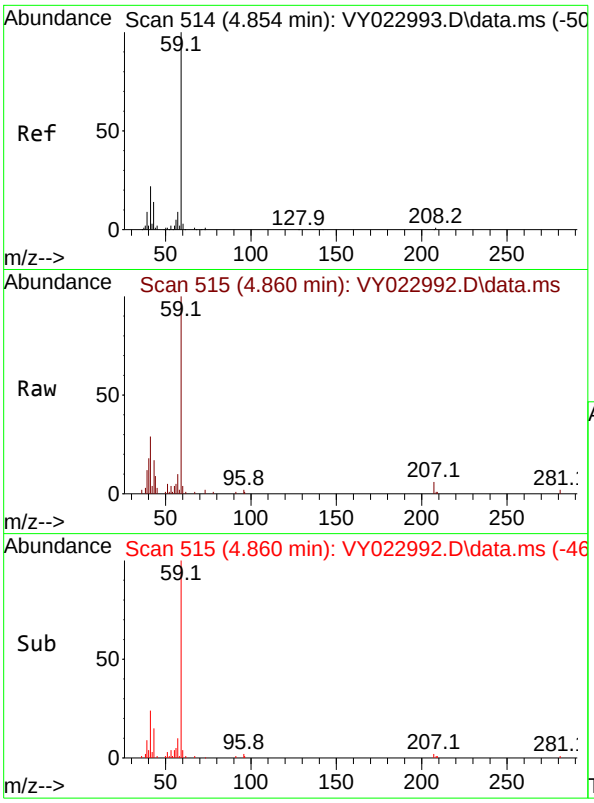


#10
Methyl Iodide
Concen: 23.883 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:142 Resp: 113170

Ion	Ratio	Lower	Upper
142	100		
127	44.8	37.0	55.6
141	15.2	11.4	17.2



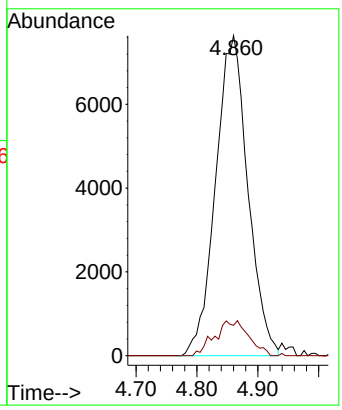


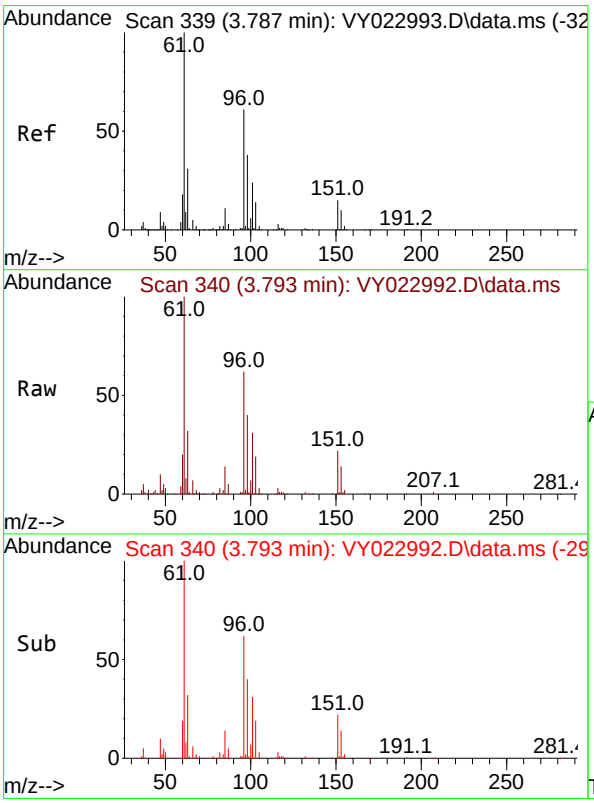
#11
Tert butyl alcohol
Concen: 111.476 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 28061

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.2	12.2

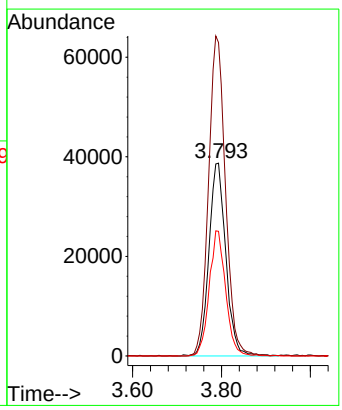


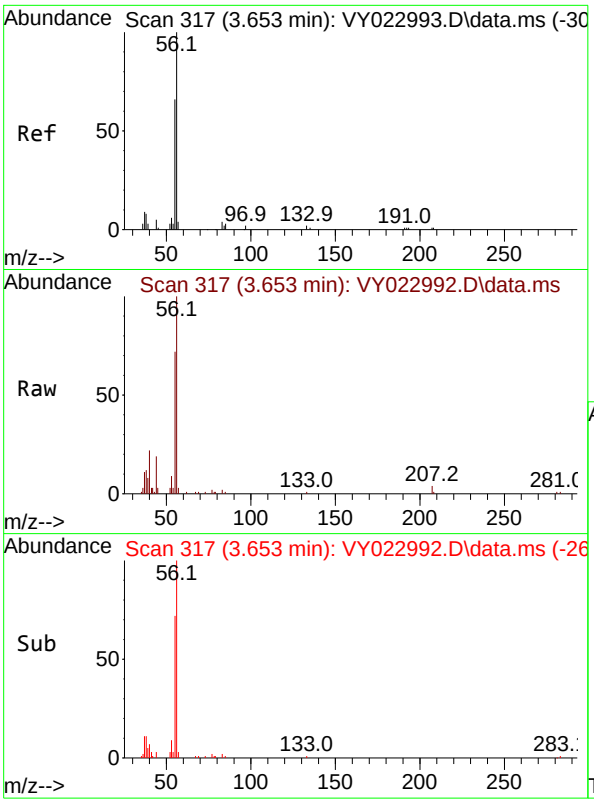


#12
1,1-Dichloroethene
Concen: 23.551 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 96 Resp: 102333

Ion	Ratio	Lower	Upper
96	100		
61	162.5	130.4	195.6
98	64.6	49.6	74.4



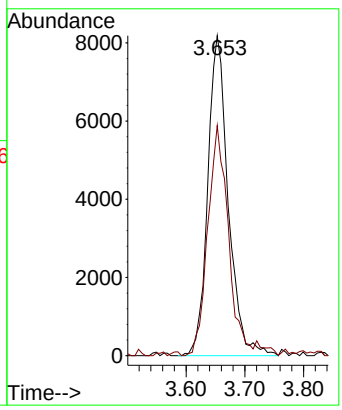


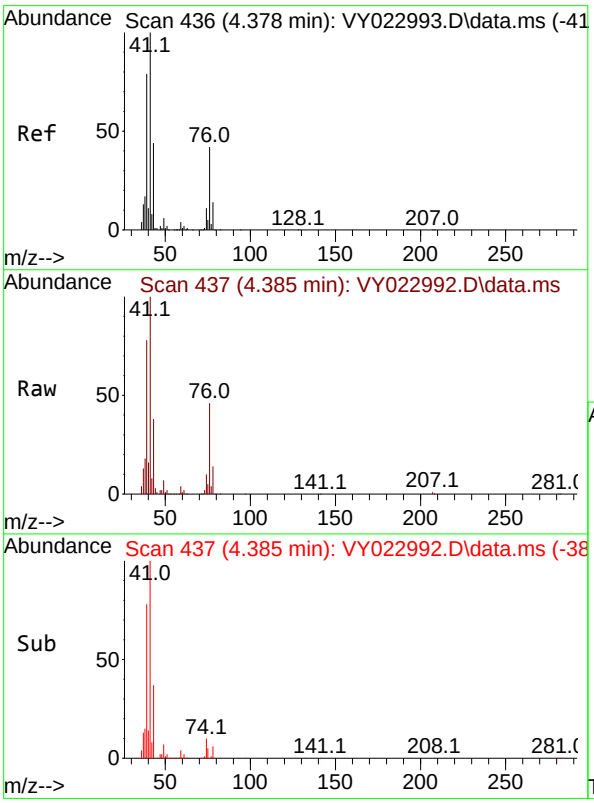
#13
Acrolein
Concen: 174.501 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 19800

Ion	Ratio	Lower	Upper
56	100		
55	71.9	57.8	86.6

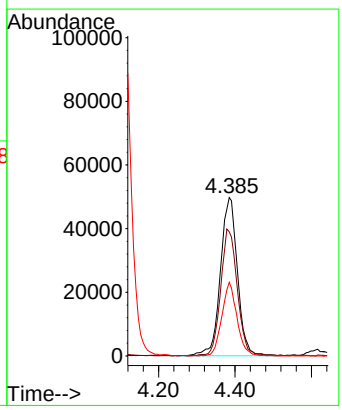


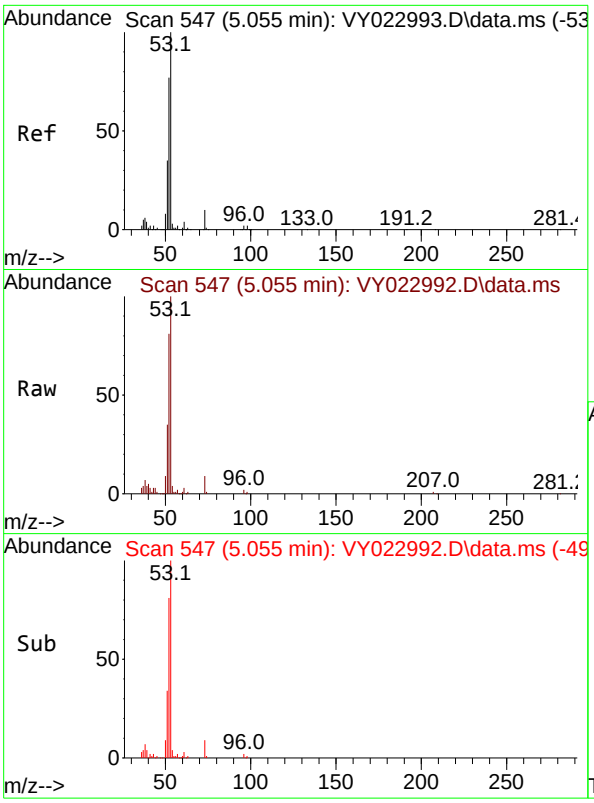


#14
Allyl chloride
Concen: 23.195 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 41 Resp: 153543

Ion	Ratio	Lower	Upper
41	100		
39	78.5	60.1	90.1
76	41.5	32.2	48.4



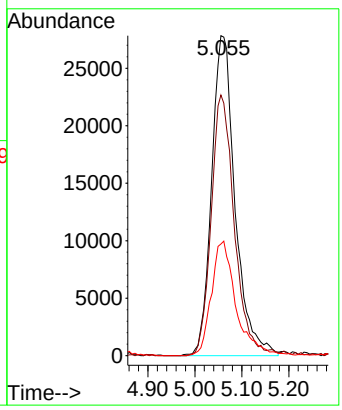


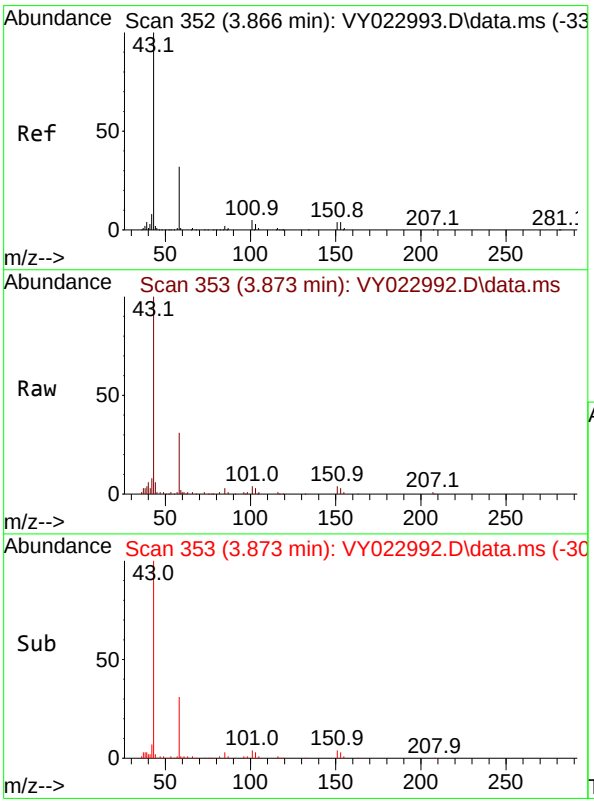
#15
Acrylonitrile
Concen: 112.128 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 96516

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.2	97.8
51	37.7	30.3	45.5

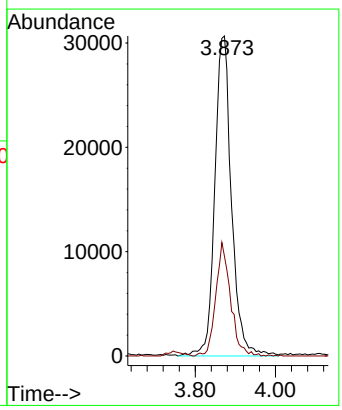


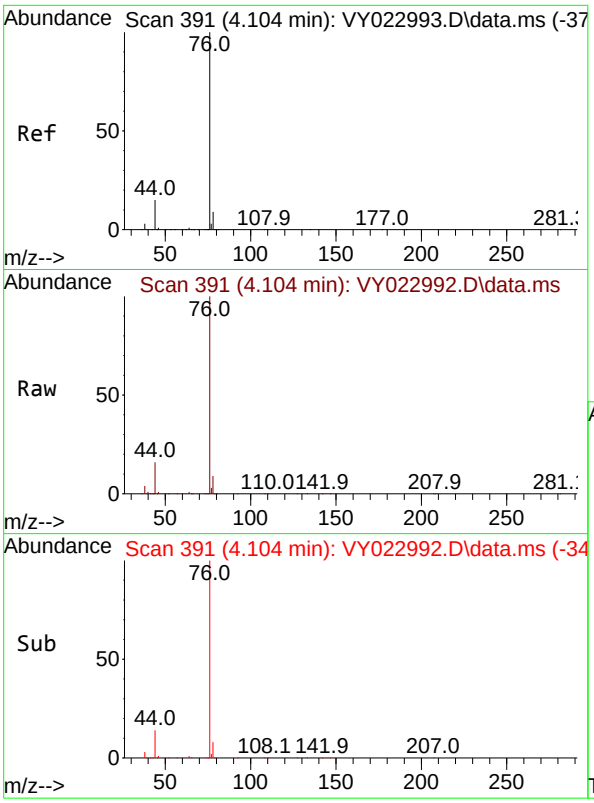


#16
Acetone
Concen: 117.937 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 88498

Ion	Ratio	Lower	Upper
43	100		
58	31.2	26.2	39.4



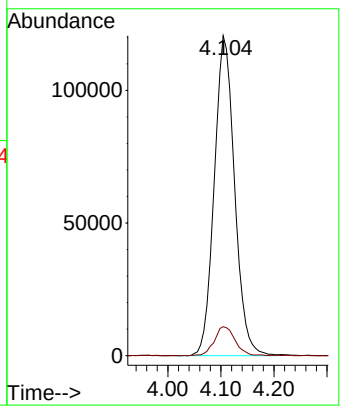


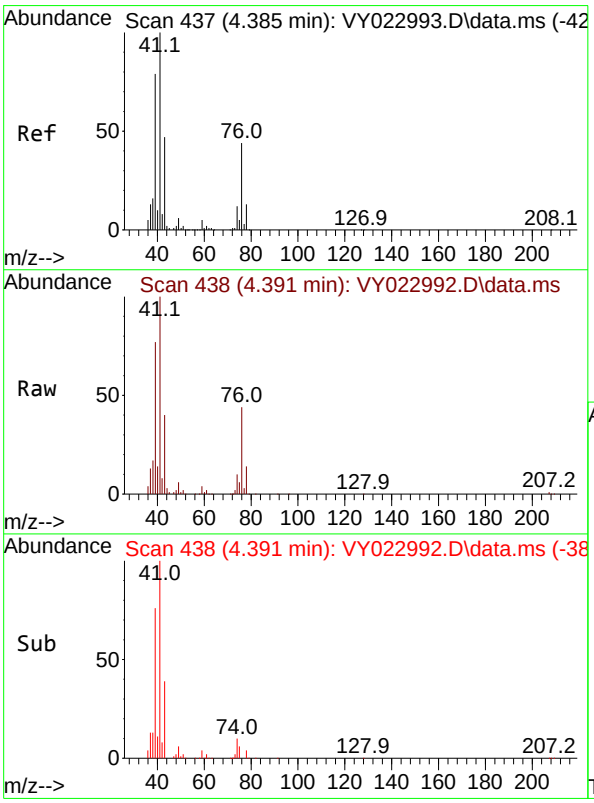
#17
Carbon Disulfide
Concen: 24.374 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 320990

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

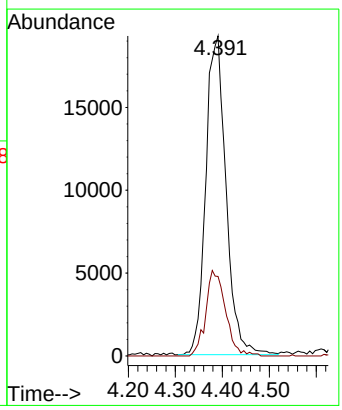


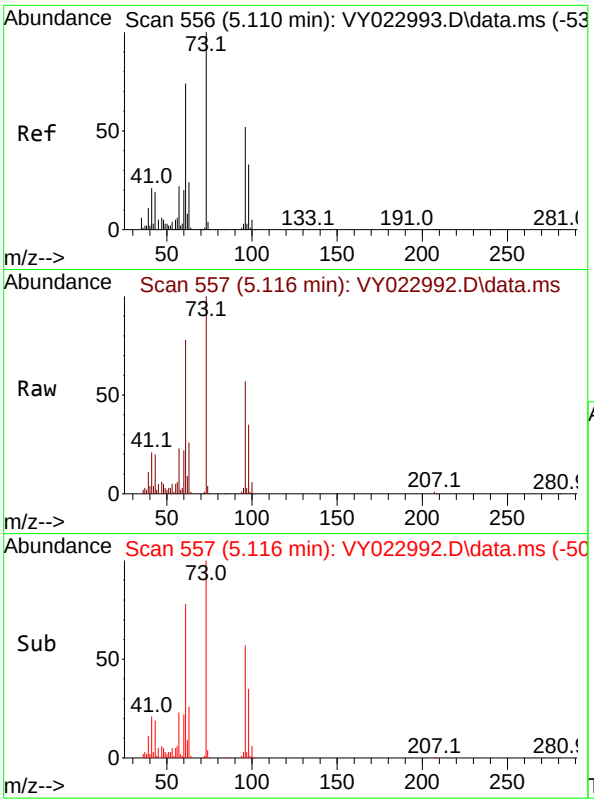


#18
Methyl Acetate
Concen: 22.614 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 57450

Ion	Ratio	Lower	Upper
43	100		
74	26.3	20.1	30.1



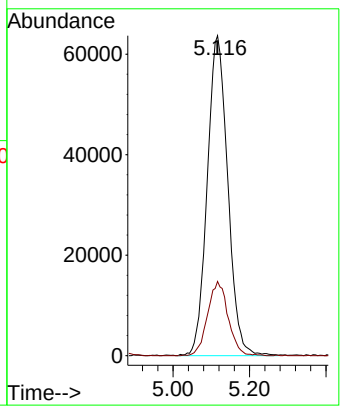


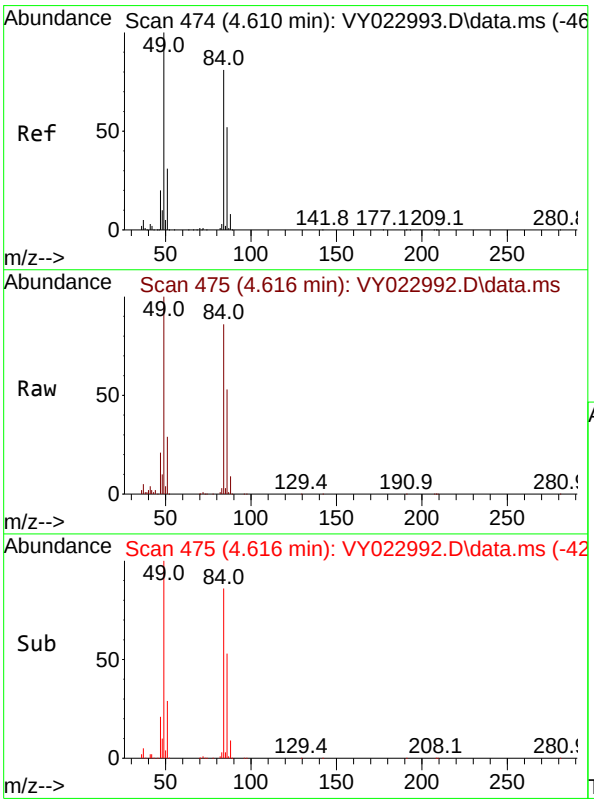
#19
Methyl tert-butyl Ether
Concen: 22.778 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 237393

Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.4	26.2

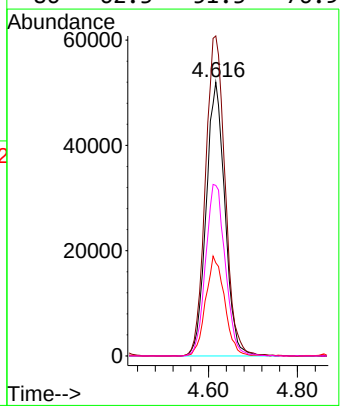


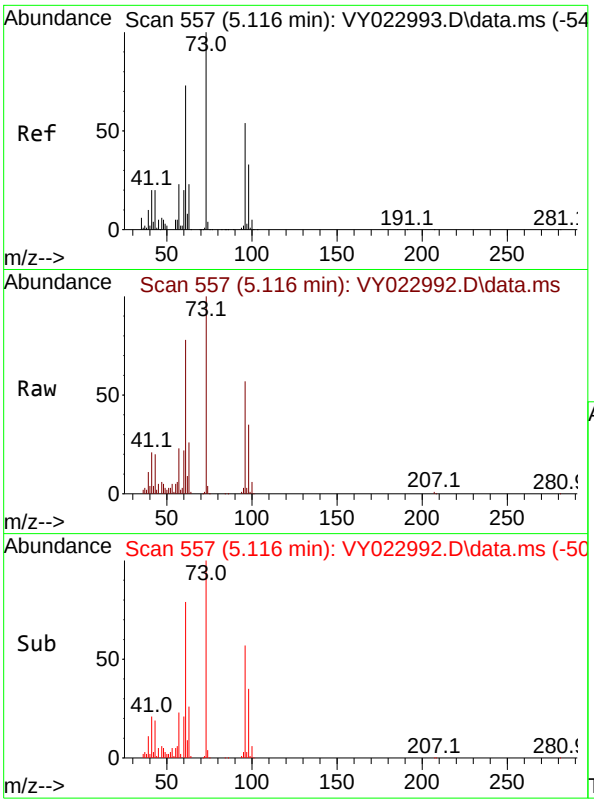


#20
Methylene Chloride
Concen: 24.700 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 84 Resp: 152623

Ion	Ratio	Lower	Upper
84	100		
49	116.9	98.2	147.4
51	34.0	30.5	45.7
86	62.3	51.3	76.9



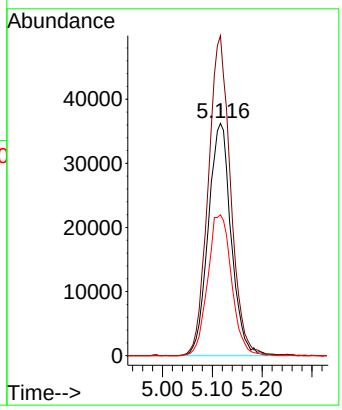


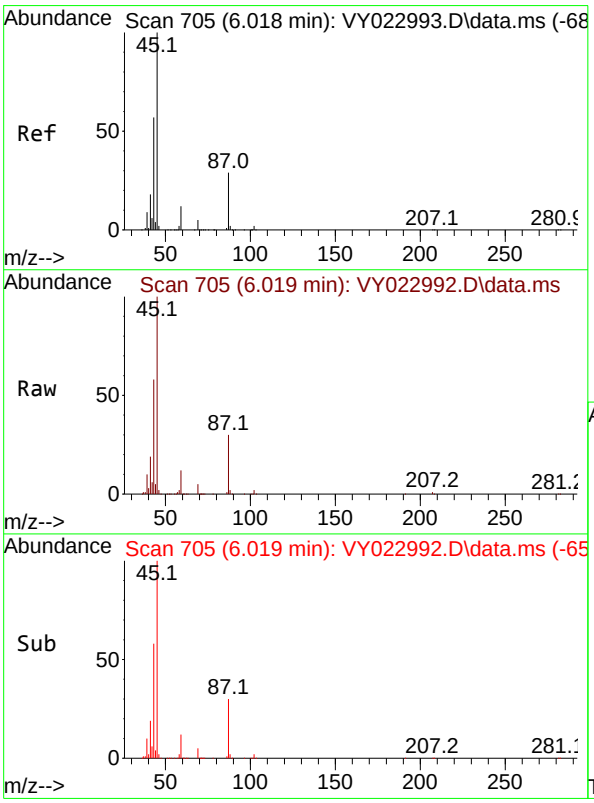
#21
trans-1,2-Dichloroethene
Concen: 23.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 115595

Ion	Ratio	Lower	Upper
96	100		
61	137.7	107.4	161.2
98	60.6	49.3	73.9

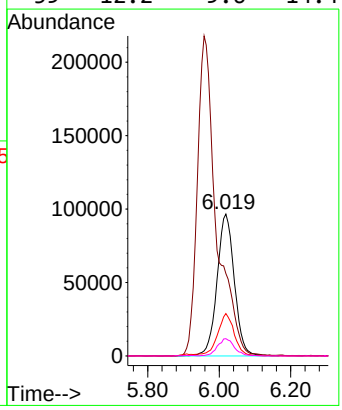


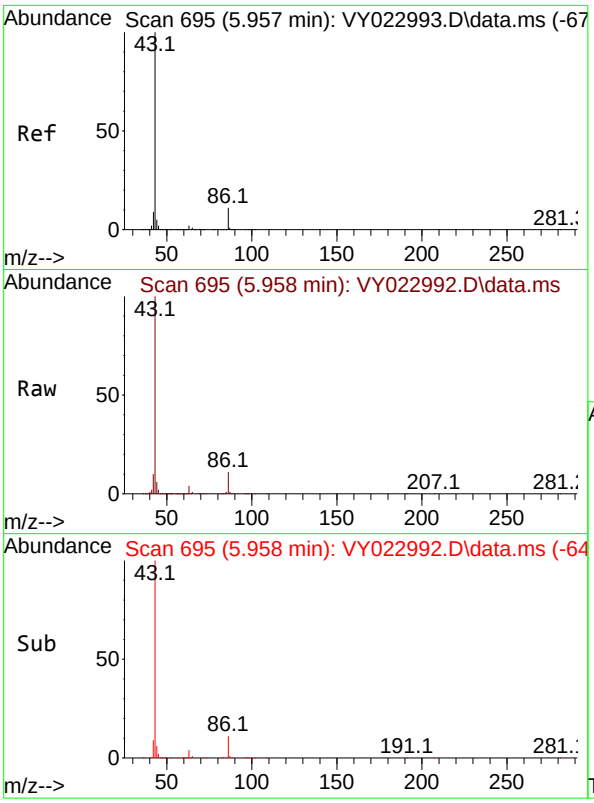


#22
Diisopropyl ether
Concen: 23.155 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 45 Resp: 325183

Ion	Ratio	Lower	Upper
45	100		
43	57.8	45.3	67.9
87	29.8	23.3	34.9
59	12.2	9.6	14.4



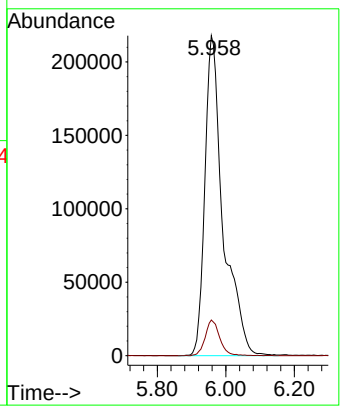


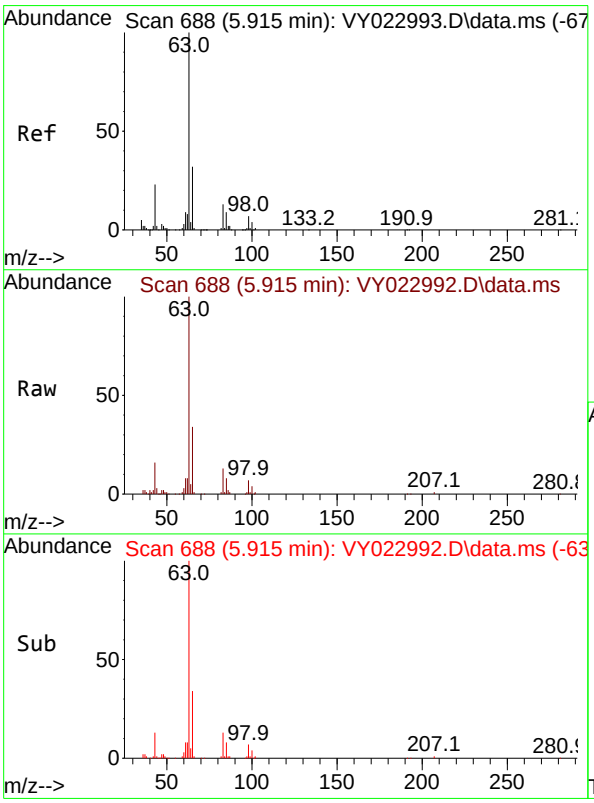
#23
Vinyl Acetate
Concen: 114.282 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 808683

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.0	13.4

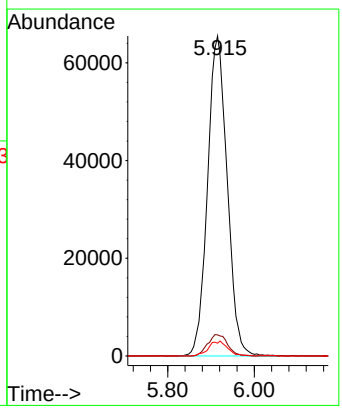


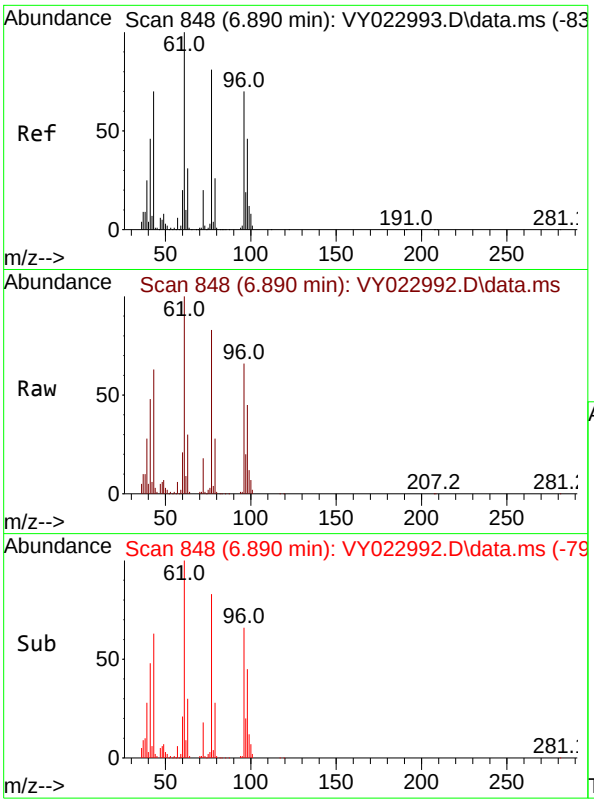


#24
1,1-Dichloroethane
Concen: 23.379 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 63 Resp: 206224

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	4.0	2.1	6.2



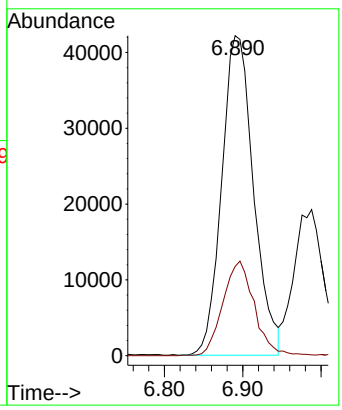


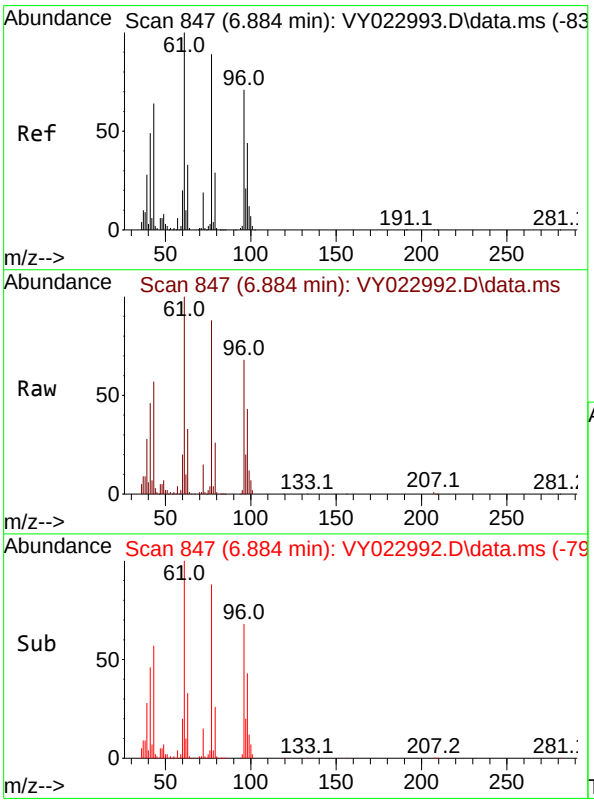
#25
2-Butanone
Concen: 110.662 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 119127

Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.9	34.3

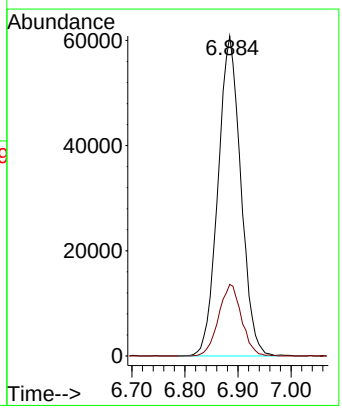


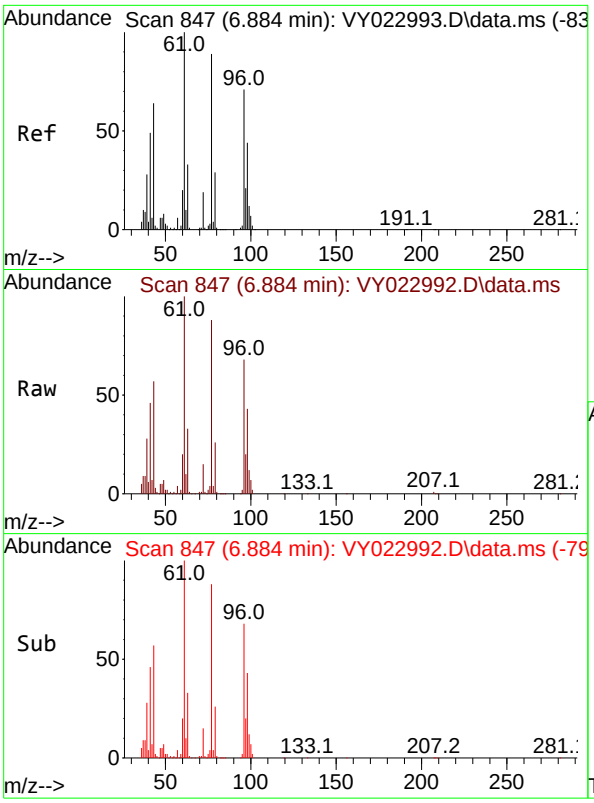


#26
2,2-Dichloropropane
Concen: 23.510 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 77 Resp: 181752

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.3	33.9



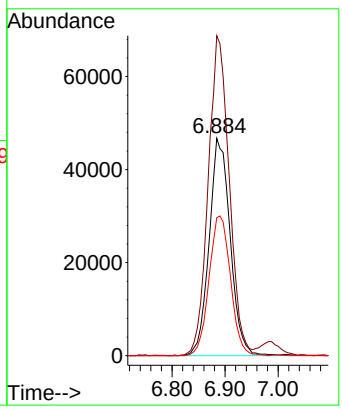


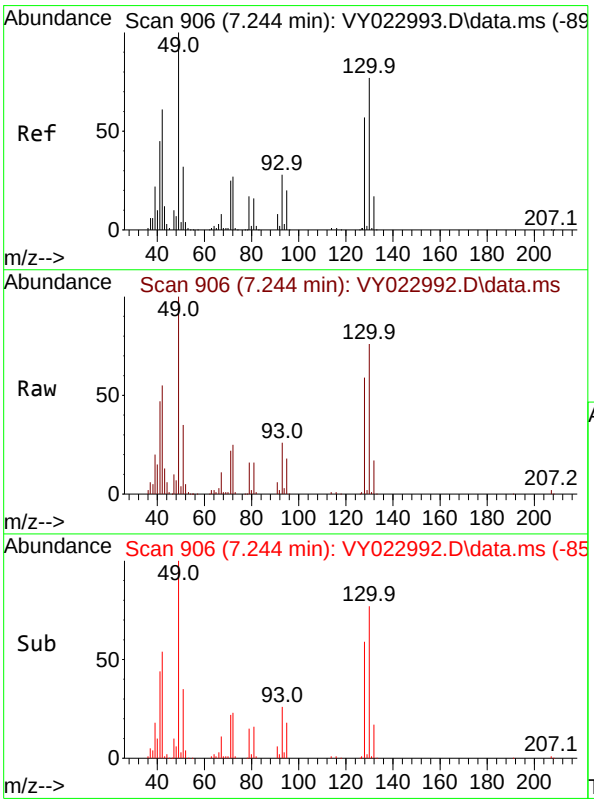
#27
cis-1,2-Dichloroethene
Concen: 23.120 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 128882

Ion	Ratio	Lower	Upper
96	100		
61	146.8	0.0	286.2
98	65.5	0.0	127.4

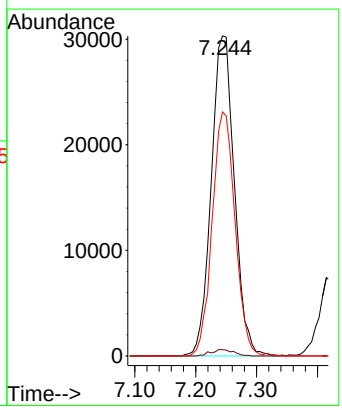


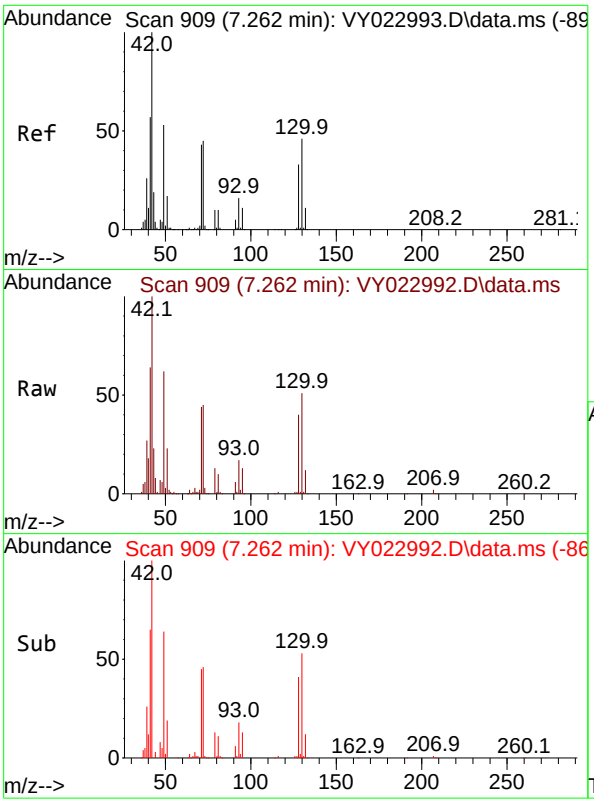


#28
Bromochloromethane
Concen: 23.340 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 49 Resp: 79854

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	75.2	61.8	92.8



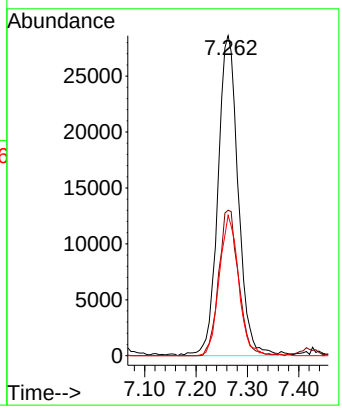


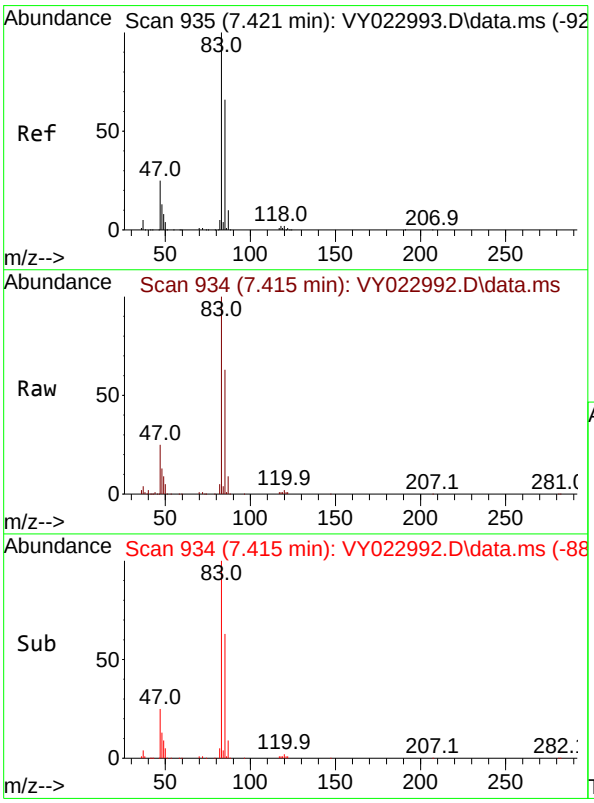
#29
Tetrahydrofuran
Concen: 114.888 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 78302

Ion	Ratio	Lower	Upper
42	100		
72	44.5	37.5	56.3
71	42.0	34.2	51.4

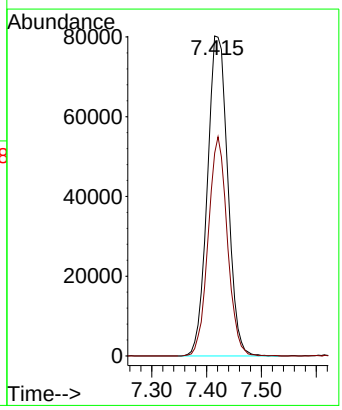


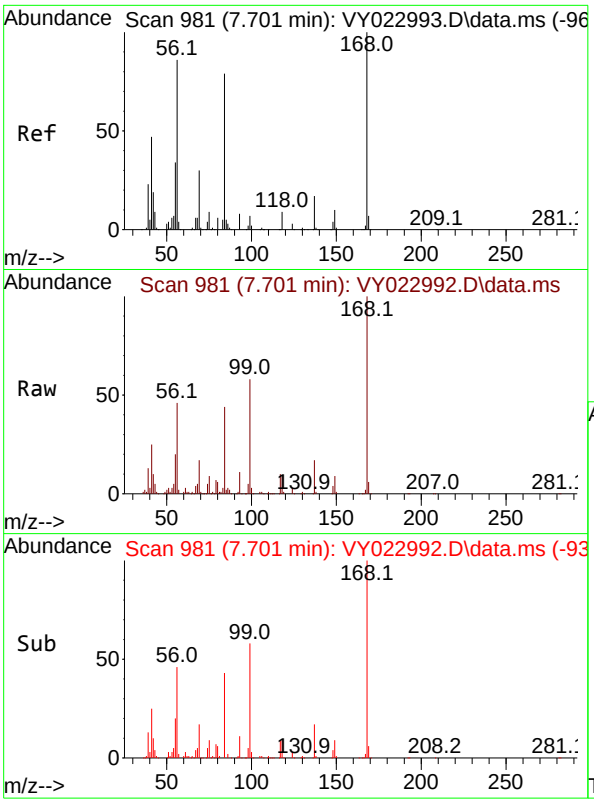


#30
Chloroform
Concen: 23.282 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 83 Resp: 207172

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.6	78.8



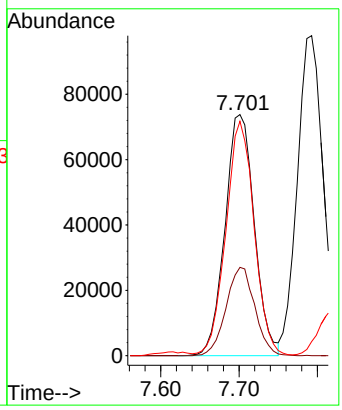


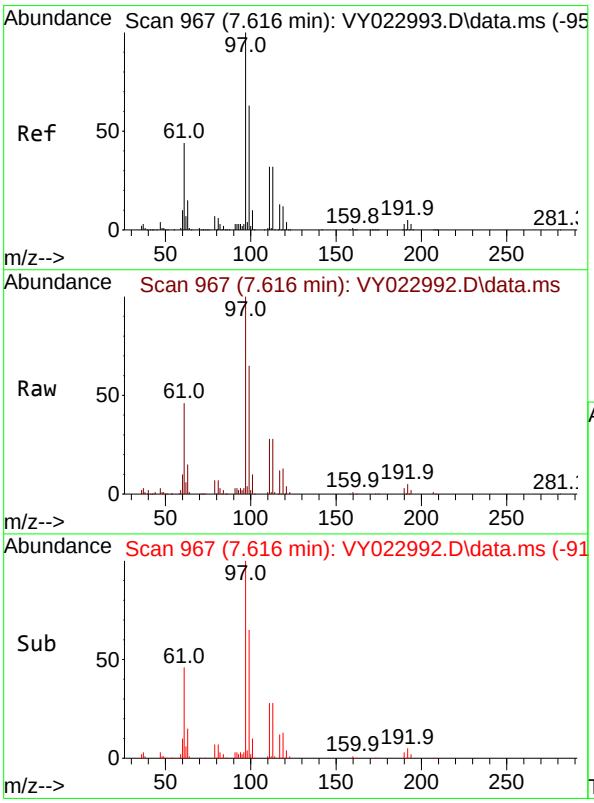
#31
Cyclohexane
Concen: 23.319 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 192200

Ion	Ratio	Lower	Upper
56	100		
69	36.6	28.1	42.1
84	96.1	73.5	110.3

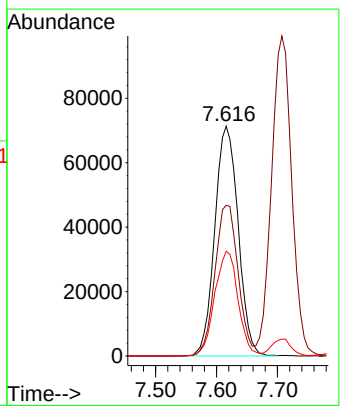


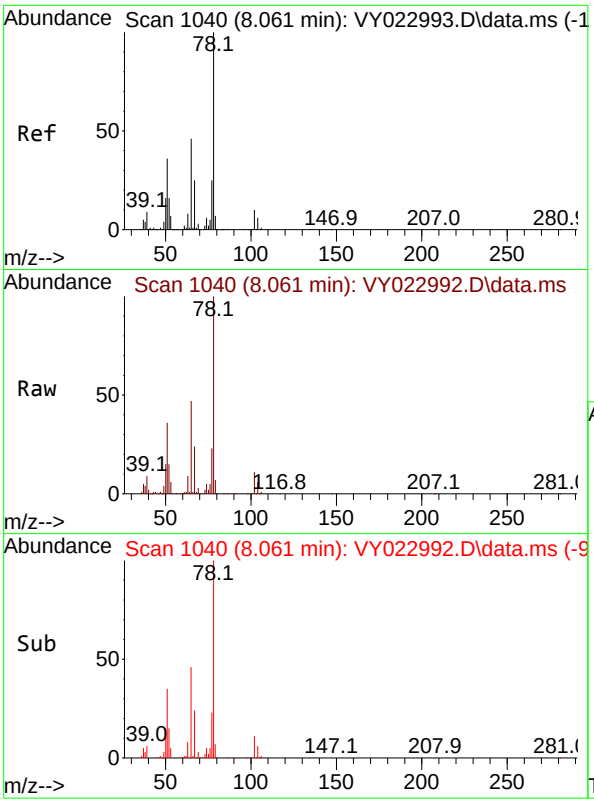


#32
1,1,1-Trichloroethane
Concen: 23.546 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 97 Resp: 190105

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	45.5	36.1	54.1



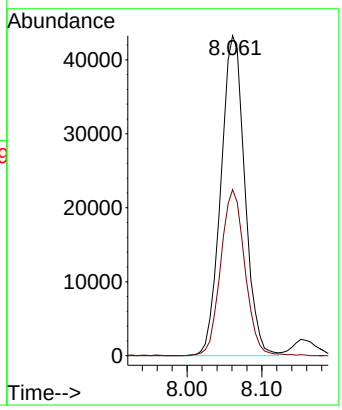


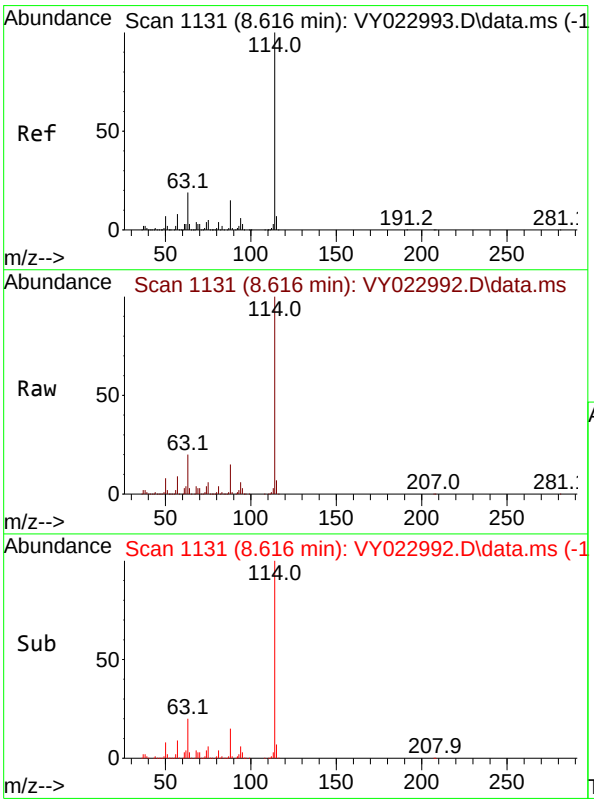
#33
1,2-Dichloroethane-d4
Concen: 23.248 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 96238

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.4

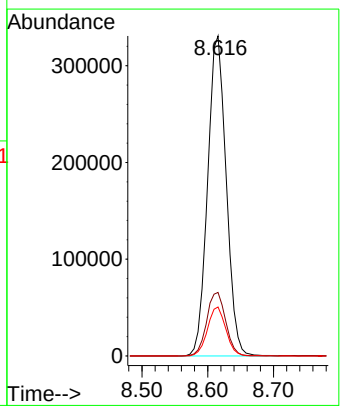


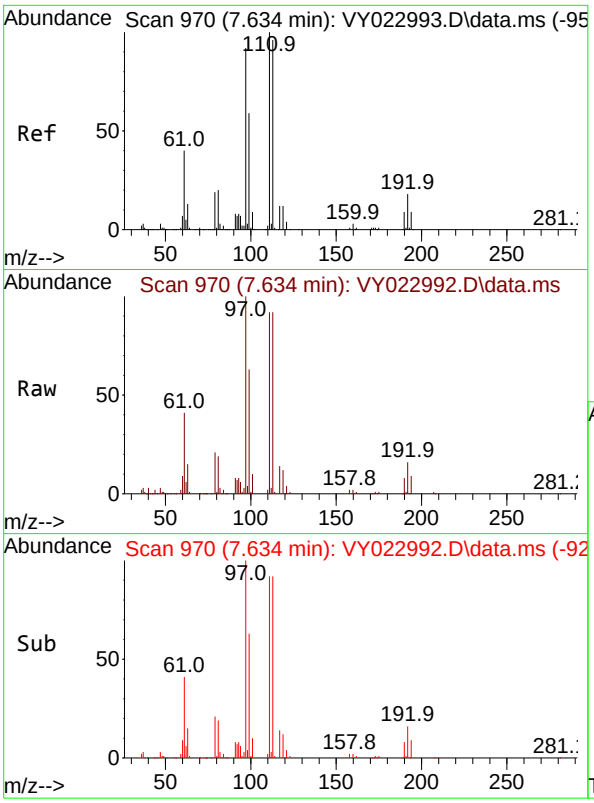


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:114 Resp: 651408

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	38.8
88	15.3	0.0	30.2



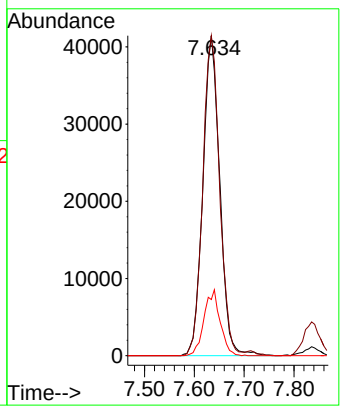


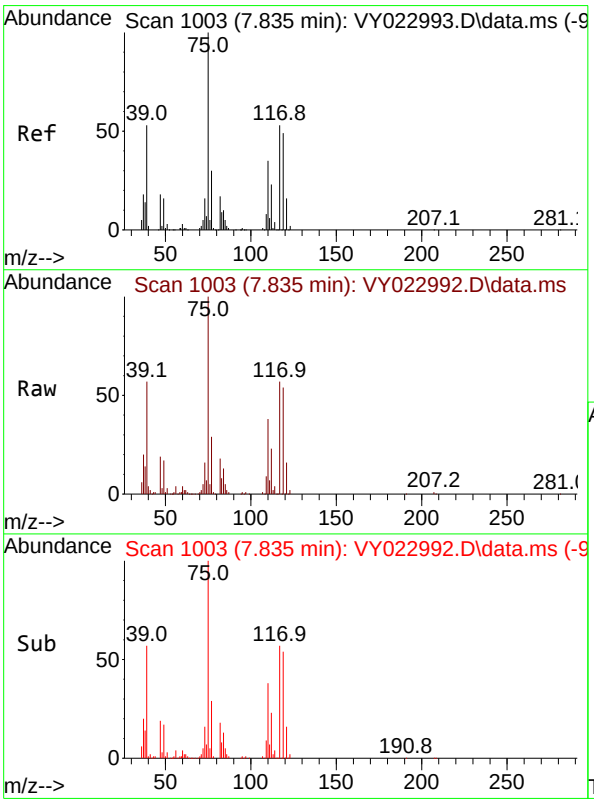
#35
Dibromofluoromethane
Concen: 23.589 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 97474

Ion	Ratio	Lower	Upper
113	100		
111	99.8	83.2	124.8
192	19.6	15.3	22.9

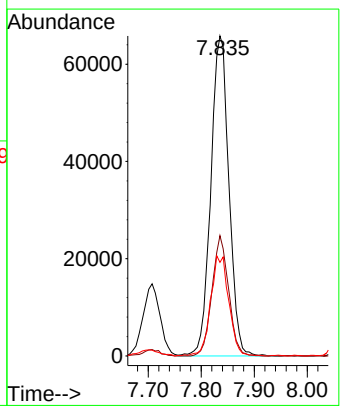


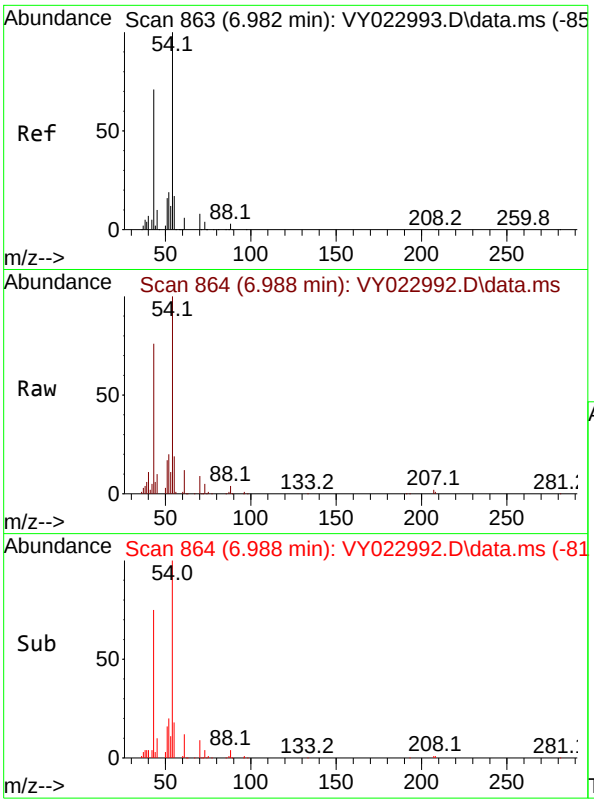


#36
1,1-Dichloropropene
Concen: 24.012 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 156287

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.3	51.9
77	31.4	24.6	37.0



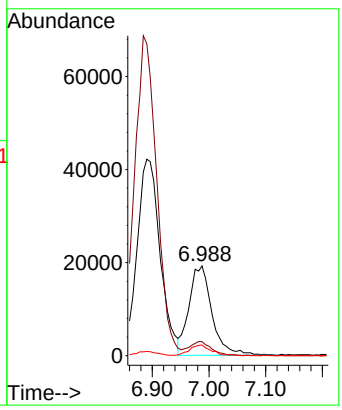


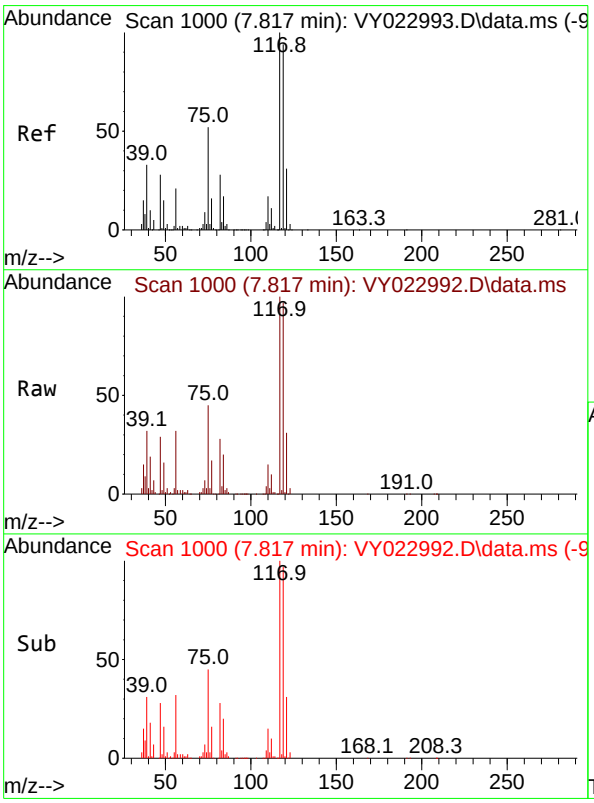
#37
Ethyl Acetate
Concen: 22.333 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 53987

Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.6	17.4
70	10.1	8.5	12.7

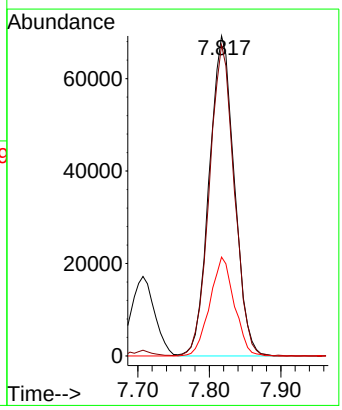


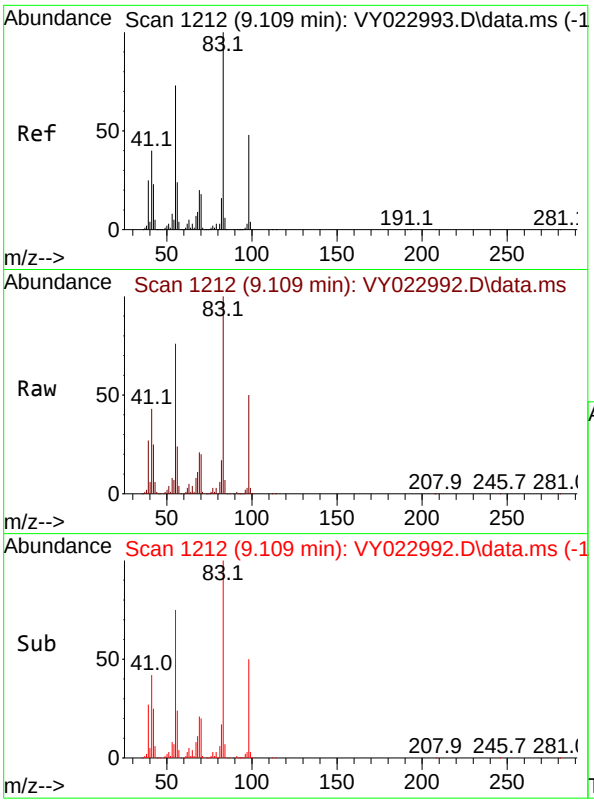


#38
Carbon Tetrachloride
Concen: 23.880 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:117 Resp: 168861

Ion	Ratio	Lower	Upper
117	100		
119	97.0	74.9	112.3
121	30.9	24.6	37.0



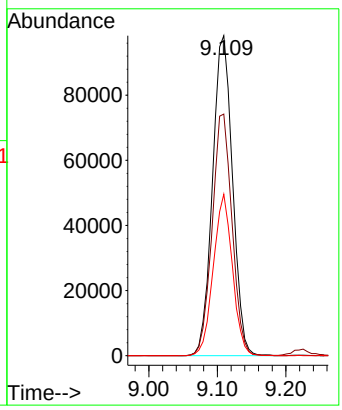


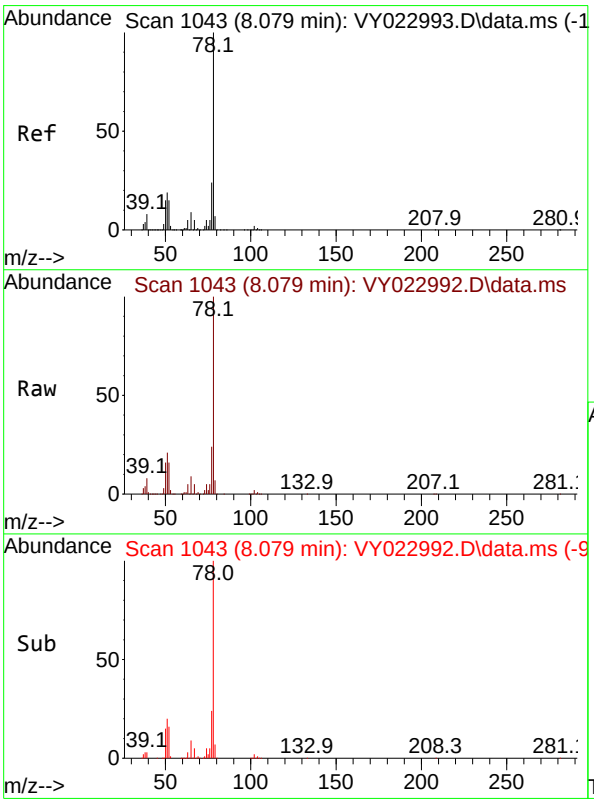
#39
Methylcyclohexane
Concen: 23.636 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 199123

Ion	Ratio	Lower	Upper
83	100		
55	75.5	58.1	87.1
98	50.4	38.5	57.7

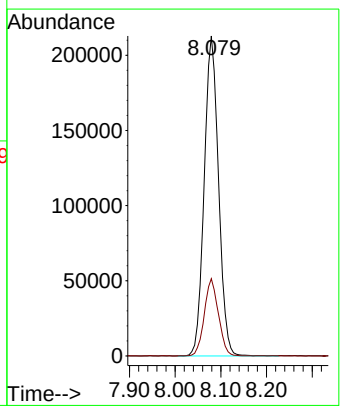


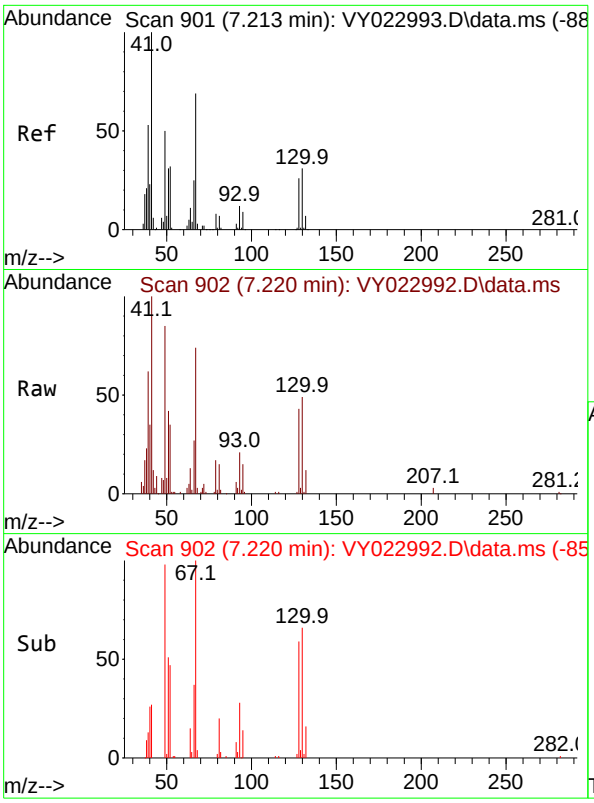


#40
Benzene
Concen: 23.613 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 78 Resp: 462756

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4



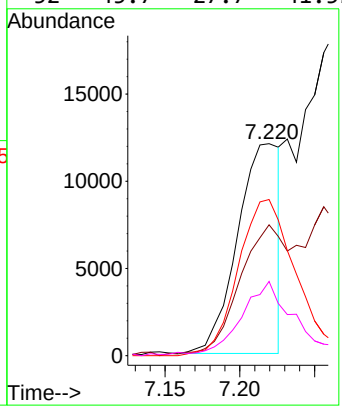


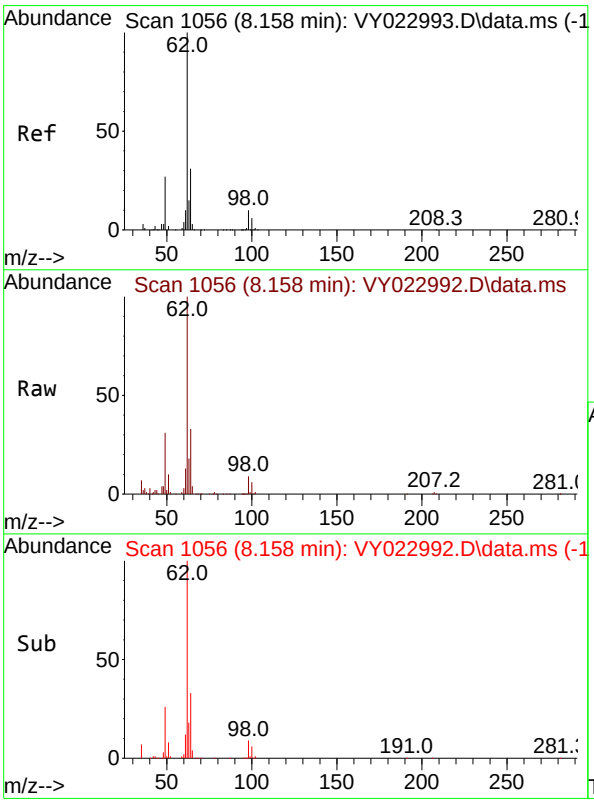
#41
Methacrylonitrile
Concen: 18.616 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 23752

Ion	Ratio	Lower	Upper
41	100		
39	68.5	50.0	75.0
67	101.7	65.4	98.2#
52	45.7	27.7	41.5#

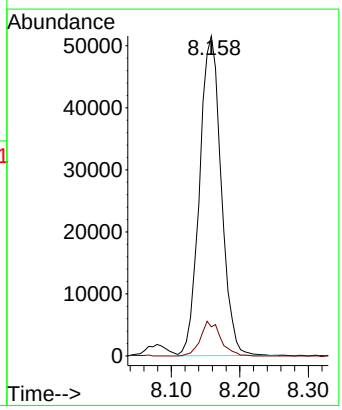


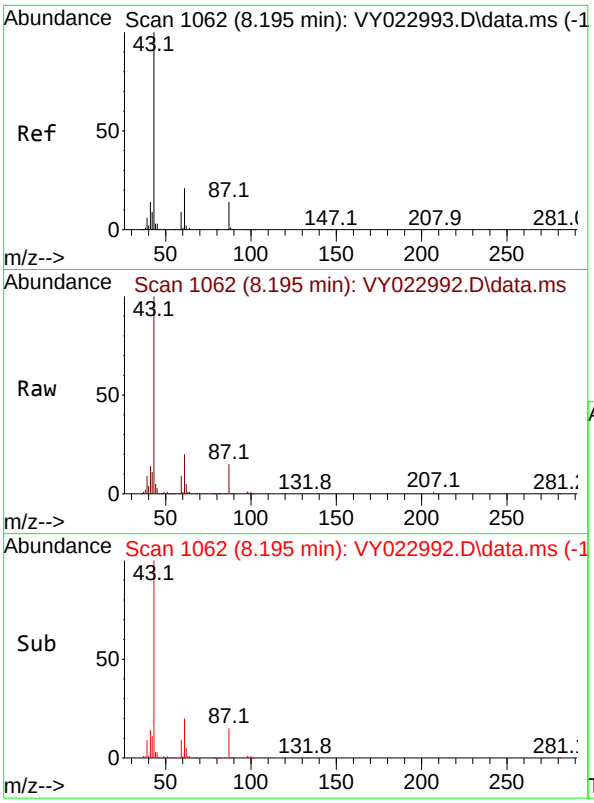


#42
1,2-Dichloroethane
Concen: 23.210 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 62 Resp: 113164

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.0



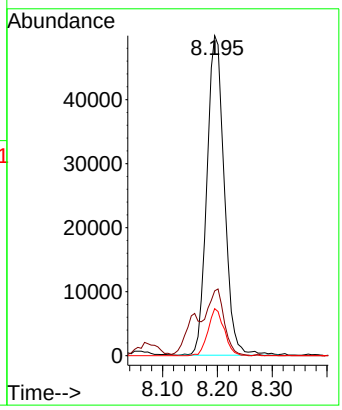


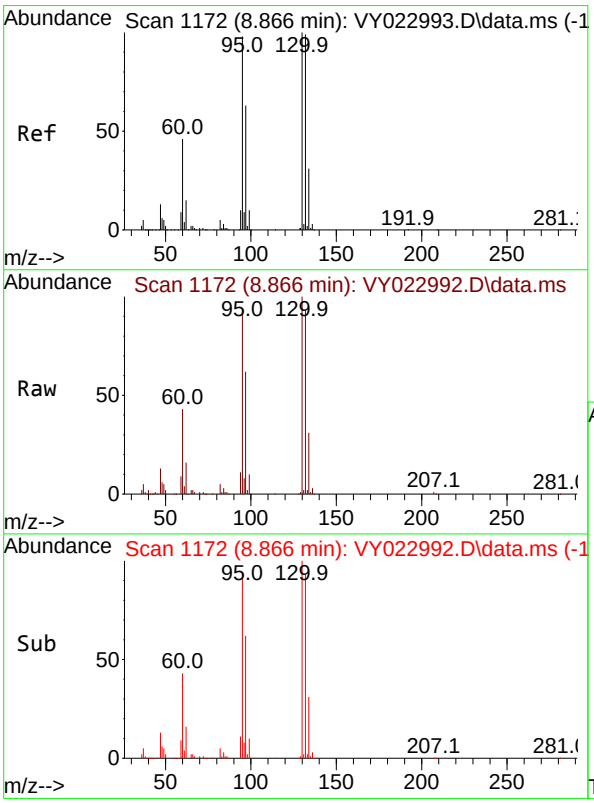
#43
Isopropyl Acetate
Concen: 22.853 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 109734

Ion	Ratio	Lower	Upper
43	100		
61	20.4	25.0	37.4#
87	13.7	11.1	16.7

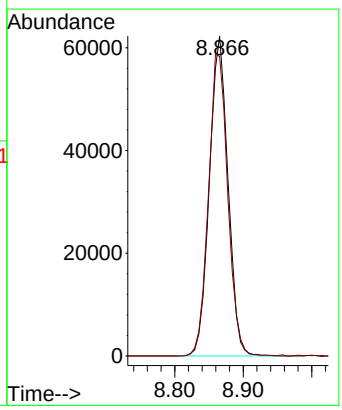


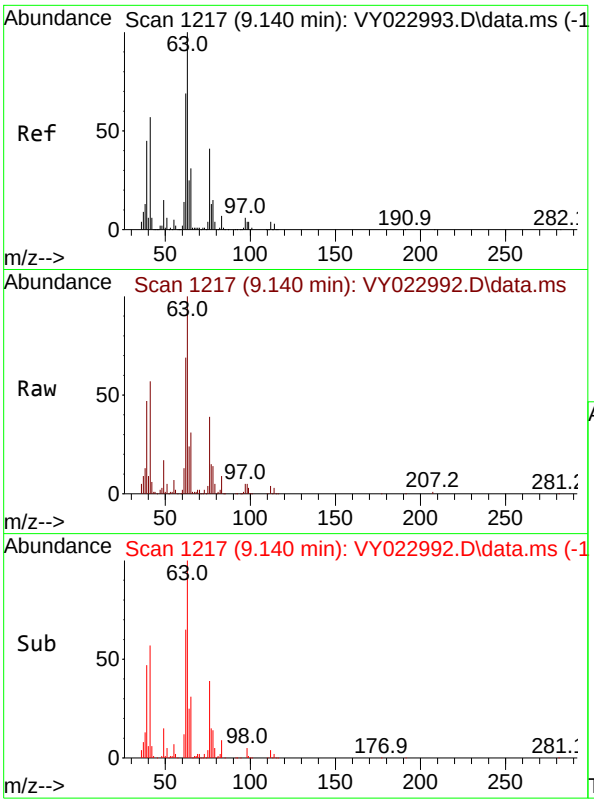


#44
Trichloroethene
Concen: 23.293 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:130 Resp: 117248

Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	195.8



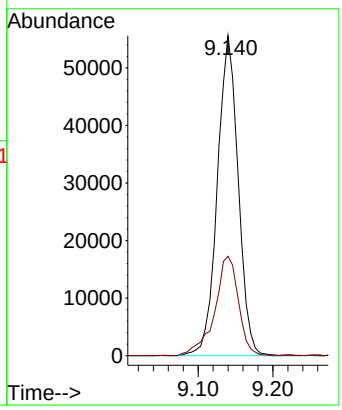


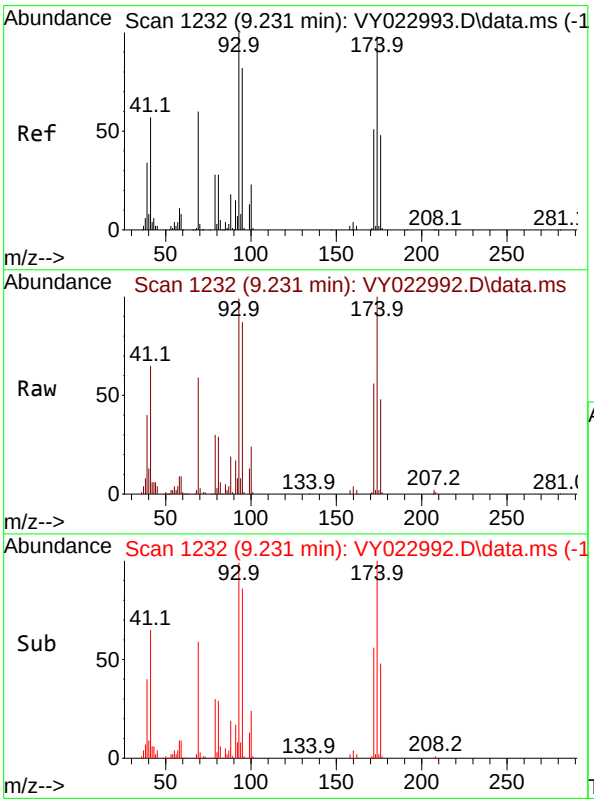
#45
1,2-Dichloropropane
Concen: 23.583 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 107925

Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.6	37.0

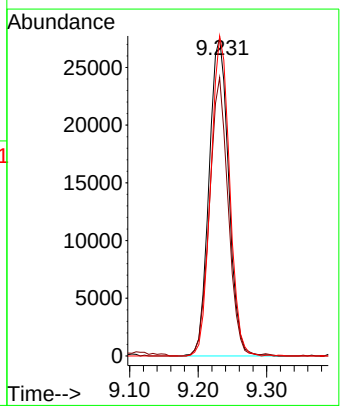


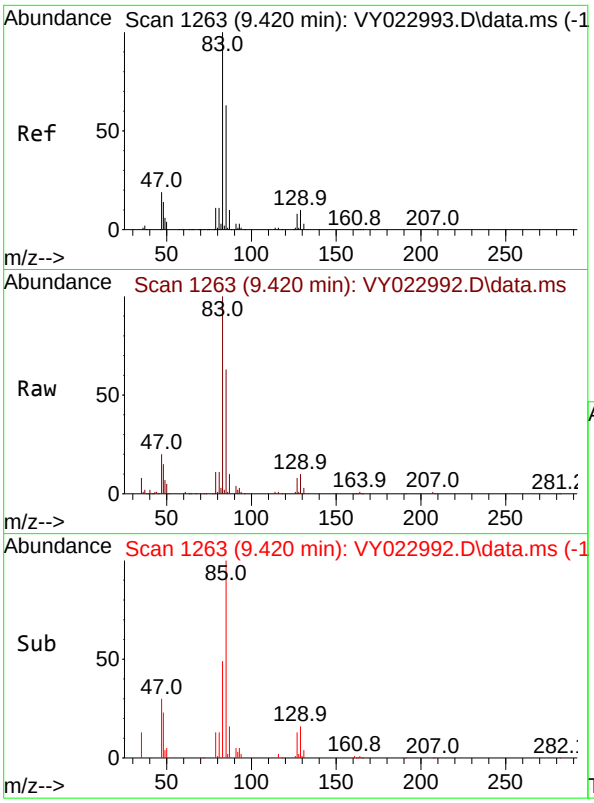


#46
Dibromomethane
Concen: 23.074 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 93 Resp: 54583

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.9	98.9
174	96.7	76.4	114.6



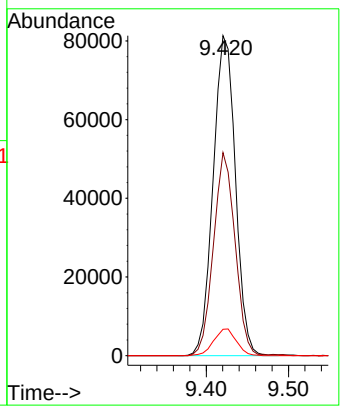


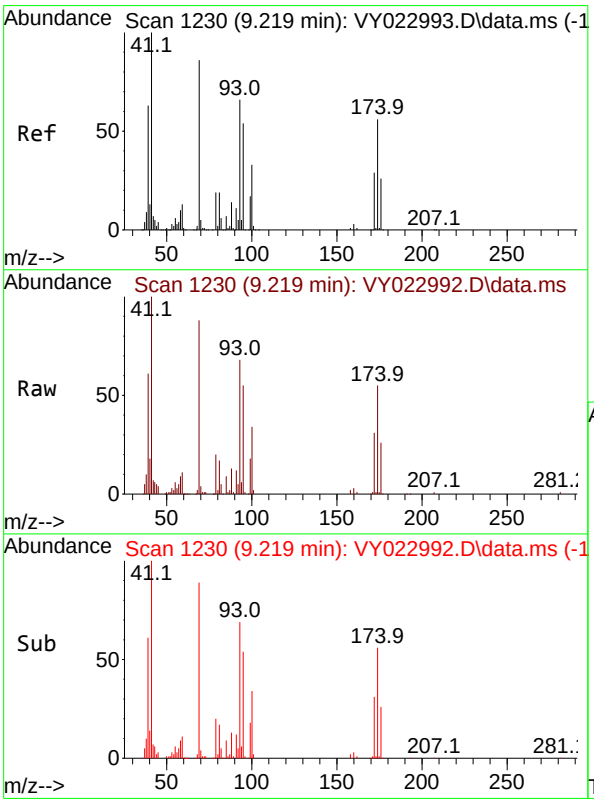
#47
Bromodichloromethane
Concen: 23.413 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 153091

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	8.2	6.5	9.7

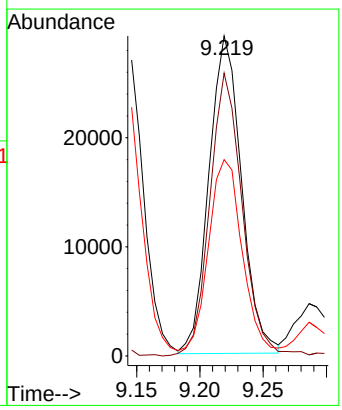


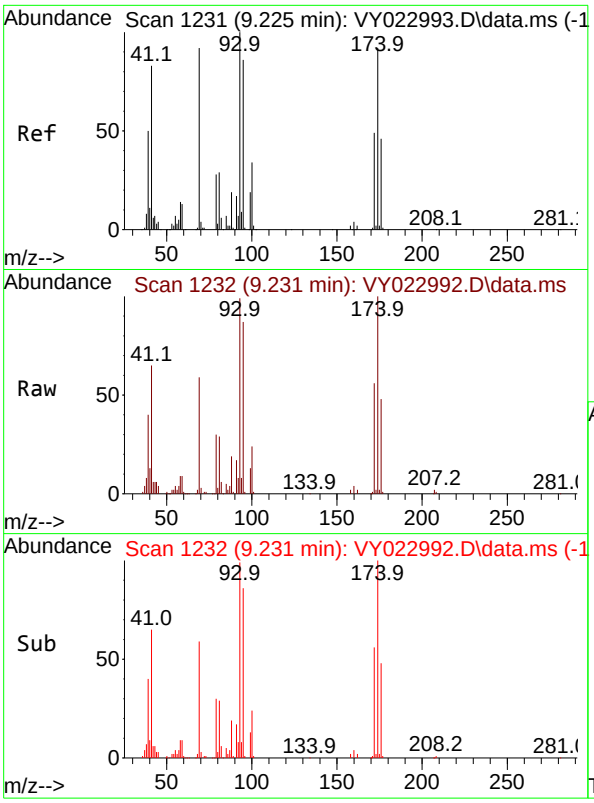


#48
Methyl methacrylate
Concen: 22.478 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 41 Resp: 52108

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	61.2	47.8	71.8



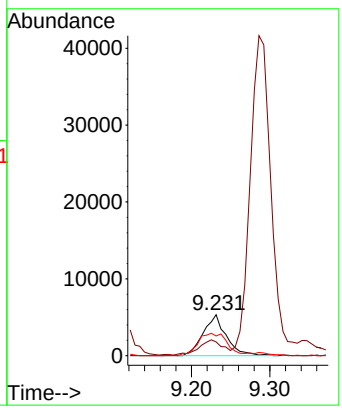


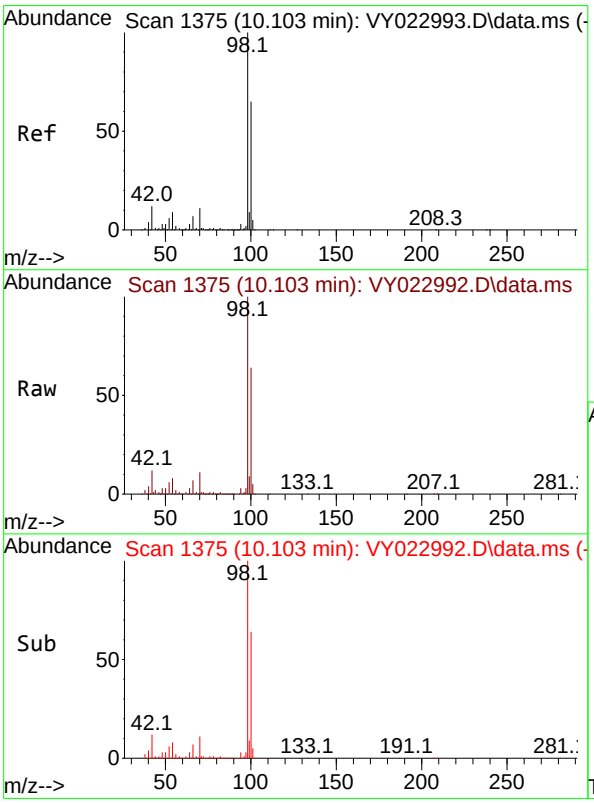
#49
1,4-Dioxane
Concen: 436.257 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 10878

Ion	Ratio	Lower	Upper
88	100		
43	38.0	28.7	43.1
58	69.6	59.8	89.6

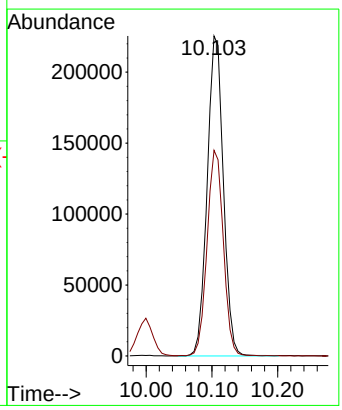


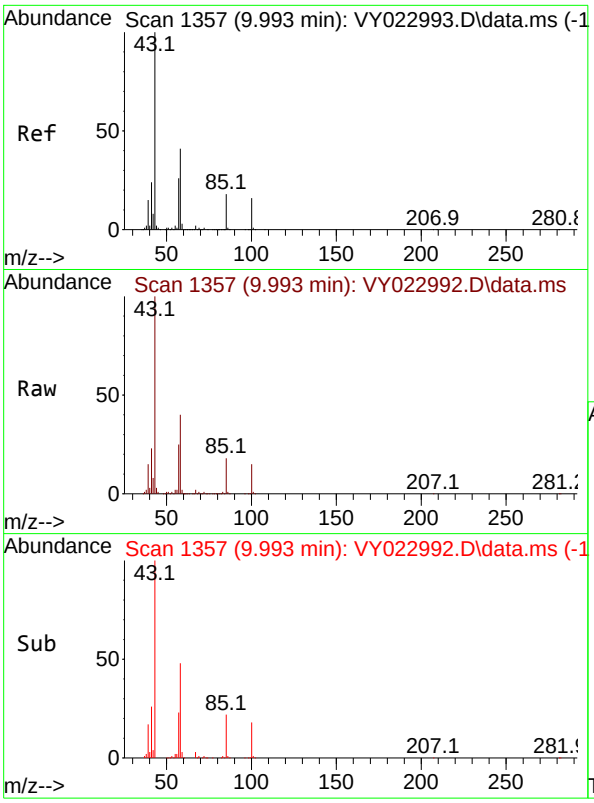


#50
Toluene-d8
Concen: 23.556 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 98 Resp: 385999

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2



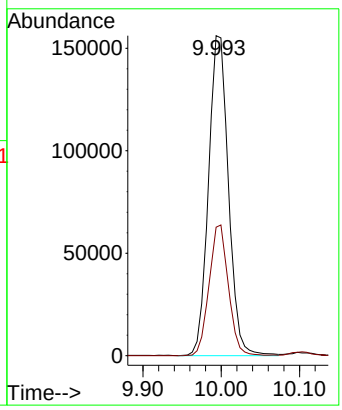


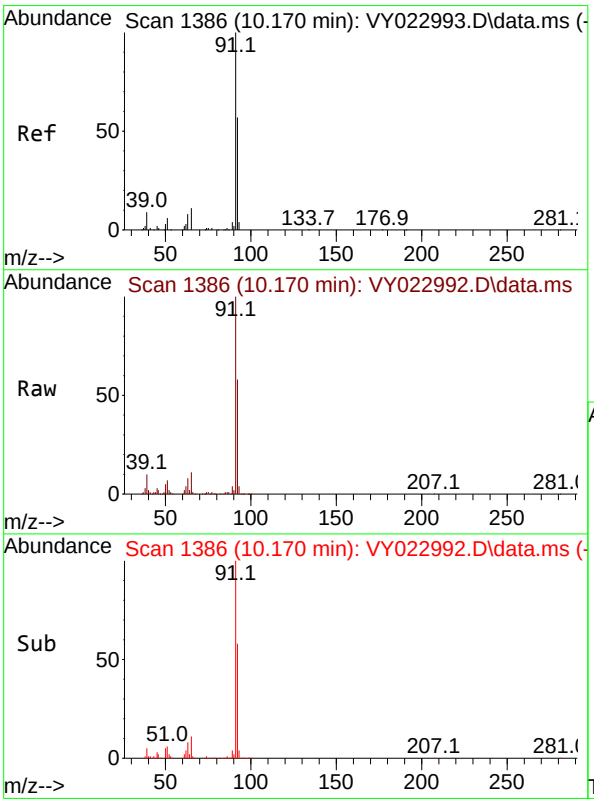
#51
4-Methyl-2-Pentanone
Concen: 113.395 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 276366

Ion	Ratio	Lower	Upper
43	100		
58	39.5	32.5	48.7

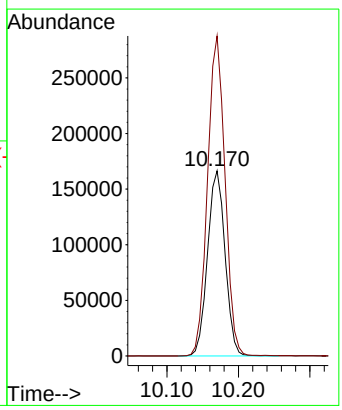


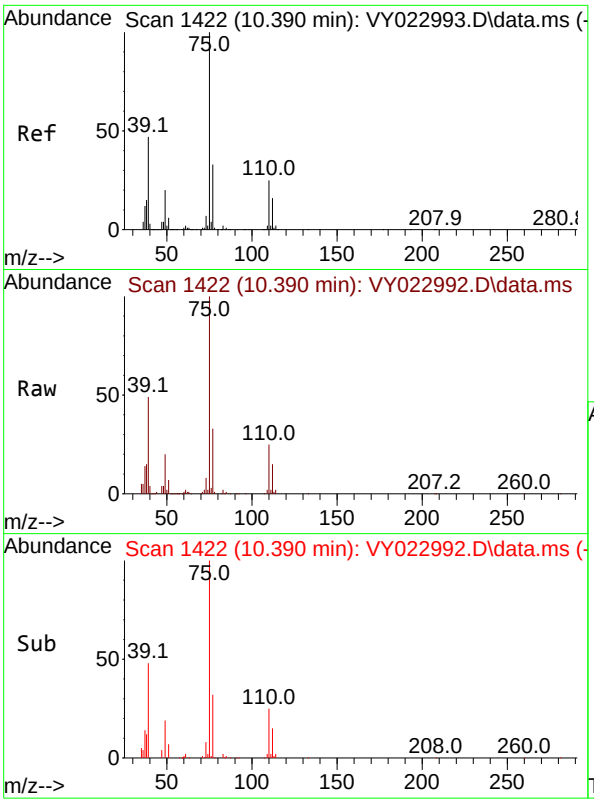


#52
Toluene
Concen: 23.265 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 92 Resp: 283471

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.8	206.6



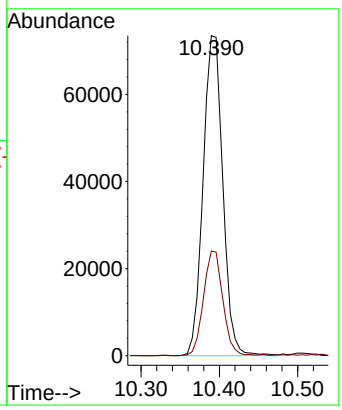


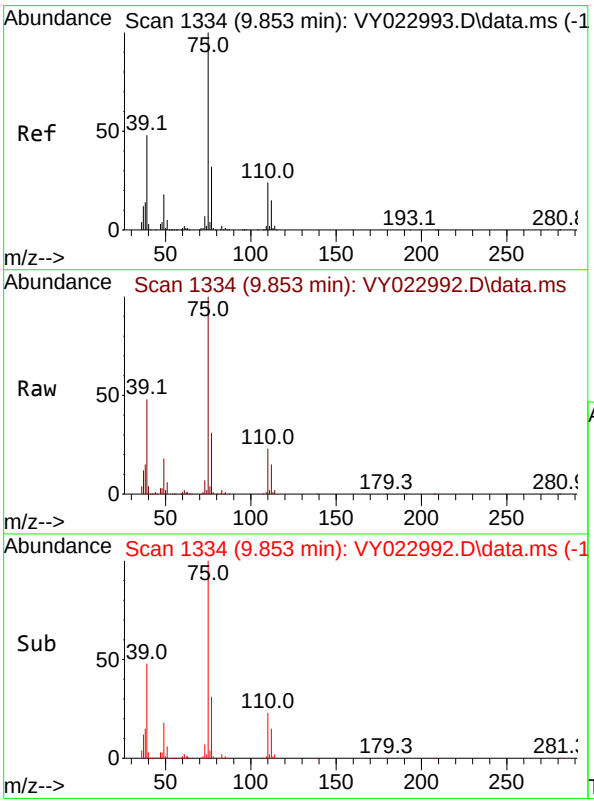
#53
t-1,3-Dichloropropene
Concen: 22.870 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 128369

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6

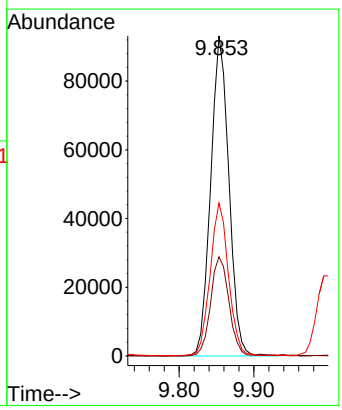


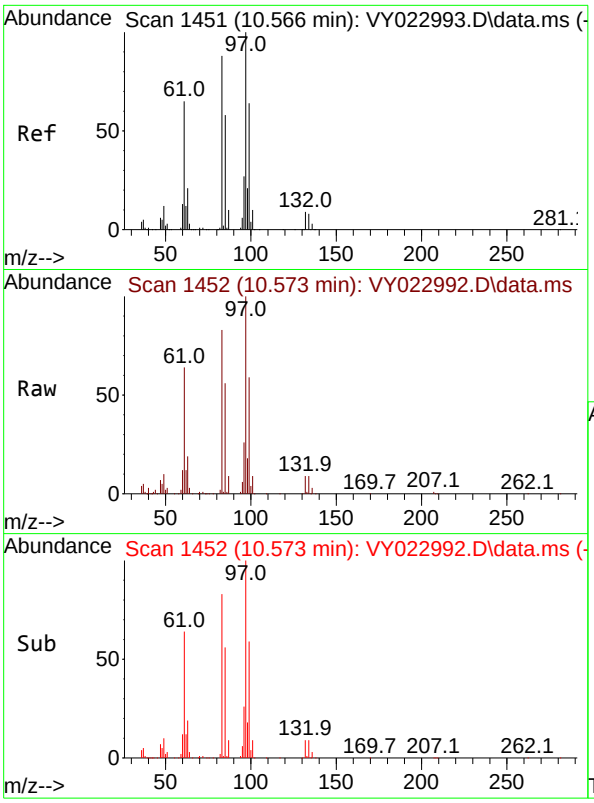


#54
cis-1,3-Dichloropropene
Concen: 23.288 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 157554

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0
39	47.6	38.2	57.2



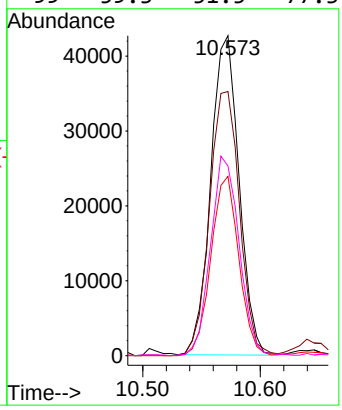


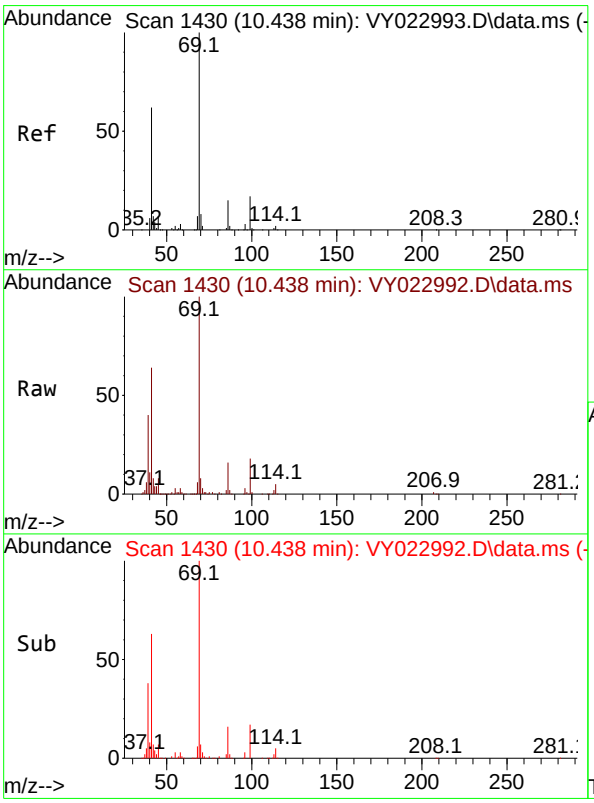
#55
1,1,2-Trichloroethane
Concen: 22.955 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 71370

Ion	Ratio	Lower	Upper
97	100		
83	82.7	70.2	105.2
85	56.2	46.2	69.2
99	59.3	51.5	77.3

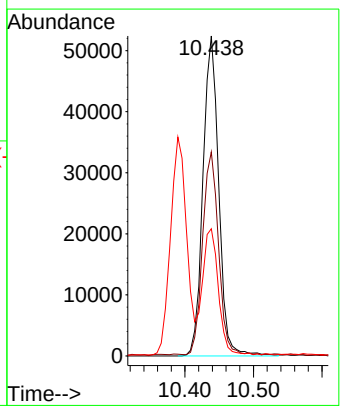


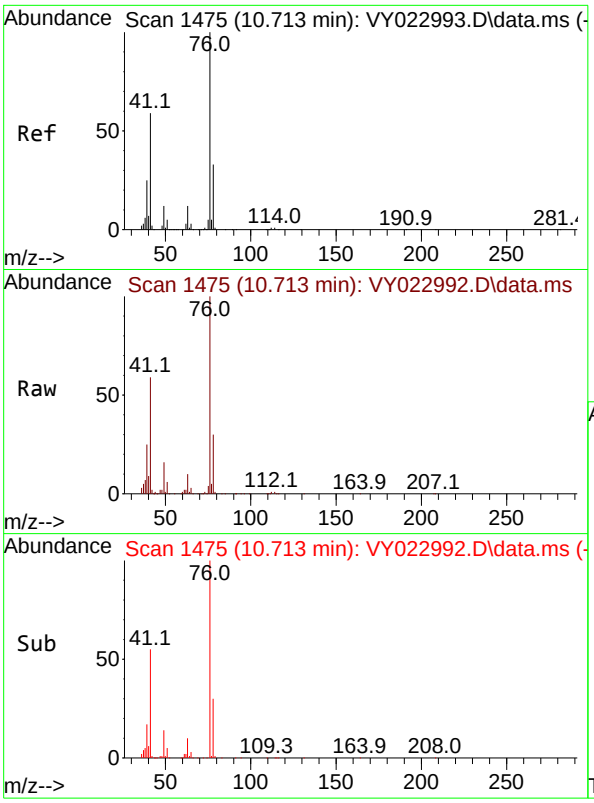


#56
Ethyl methacrylate
Concen: 21.644 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 69 Resp: 84006

Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.0	76.4
39	39.8	30.6	46.0



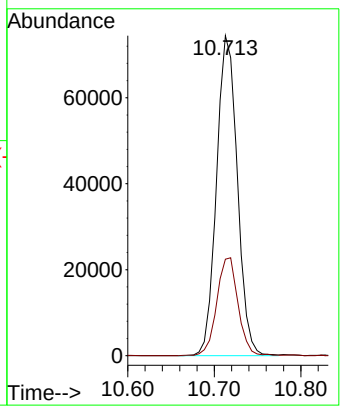


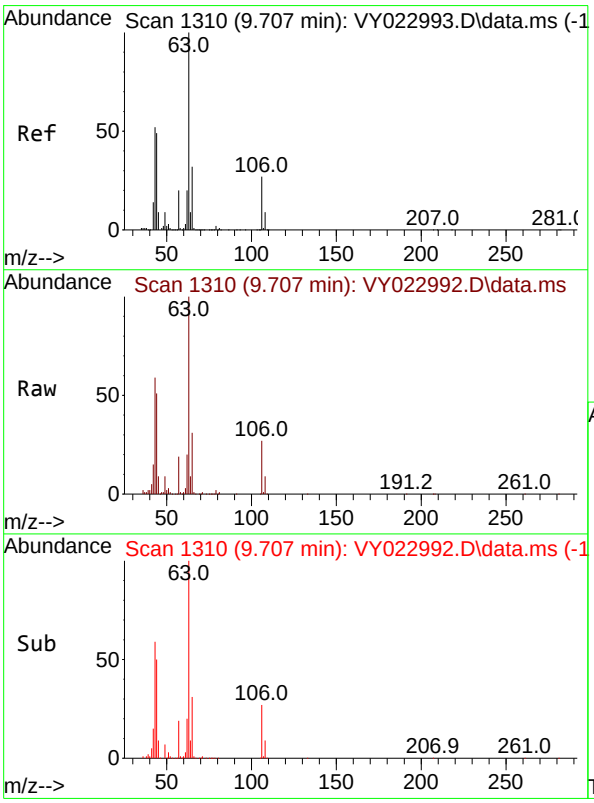
#57
1,3-Dichloropropane
Concen: 23.129 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 124222

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.6	39.8

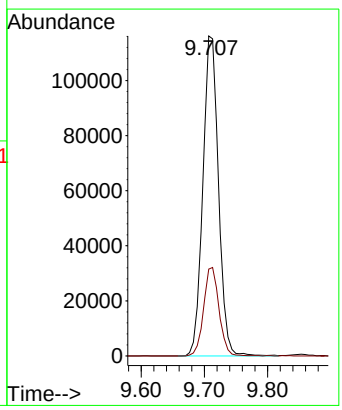


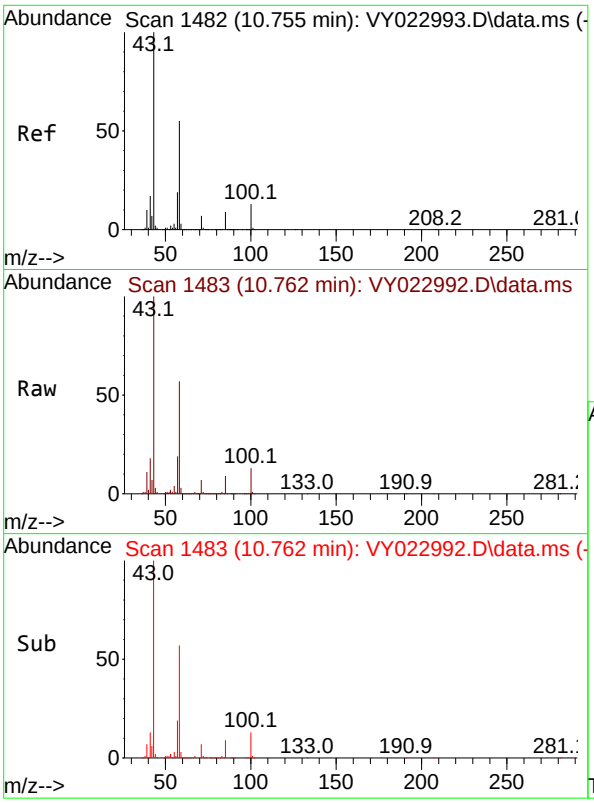


#58
2-Chloroethyl Vinyl ether
Concen: 105.265 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 63 Resp: 199993

Ion	Ratio	Lower	Upper
63	100		
106	27.2	22.6	33.8



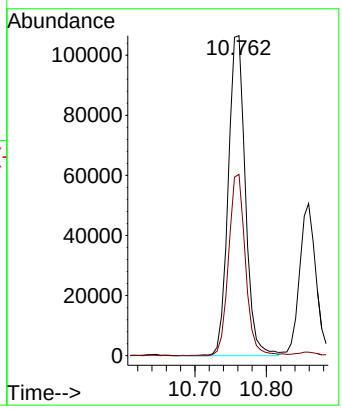


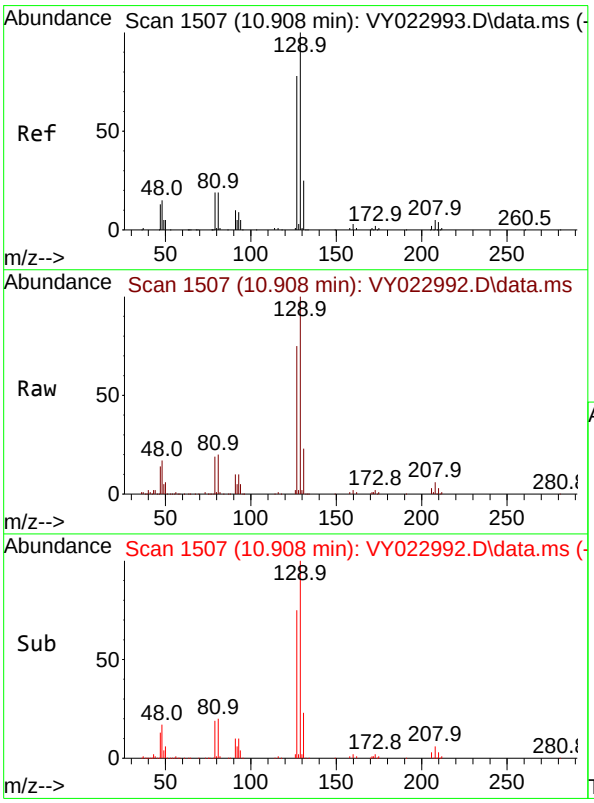
#59
2-Hexanone
Concen: 110.226 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 176582

Ion	Ratio	Lower	Upper
43	100		
58	55.9	28.1	84.3

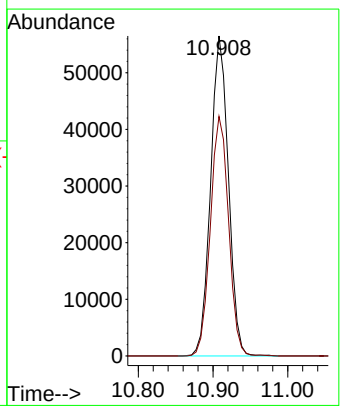


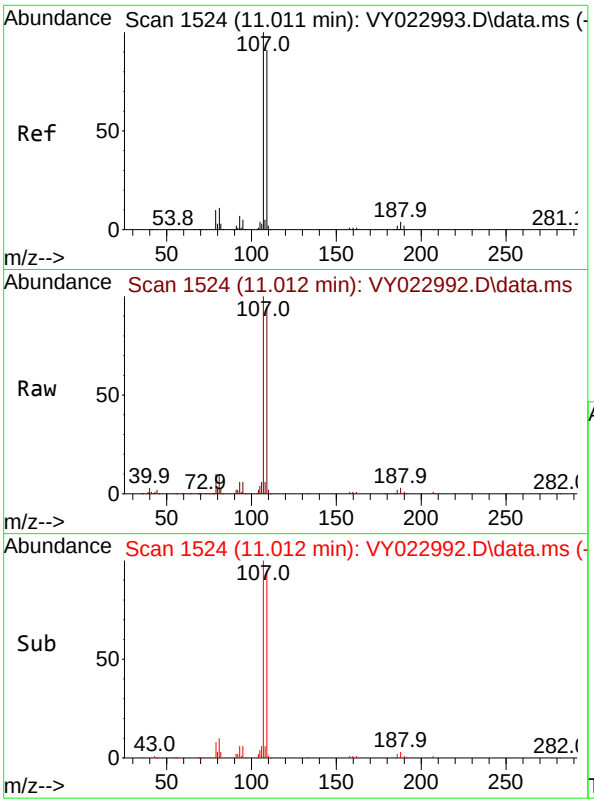


#60
Dibromochloromethane
Concen: 22.990 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:129 Resp: 93599

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.7	116.1



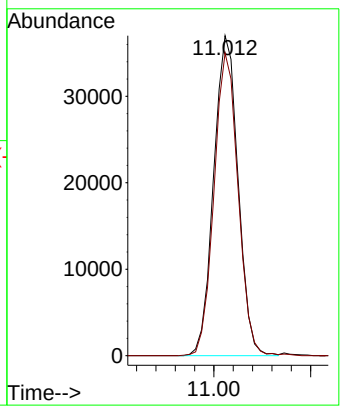


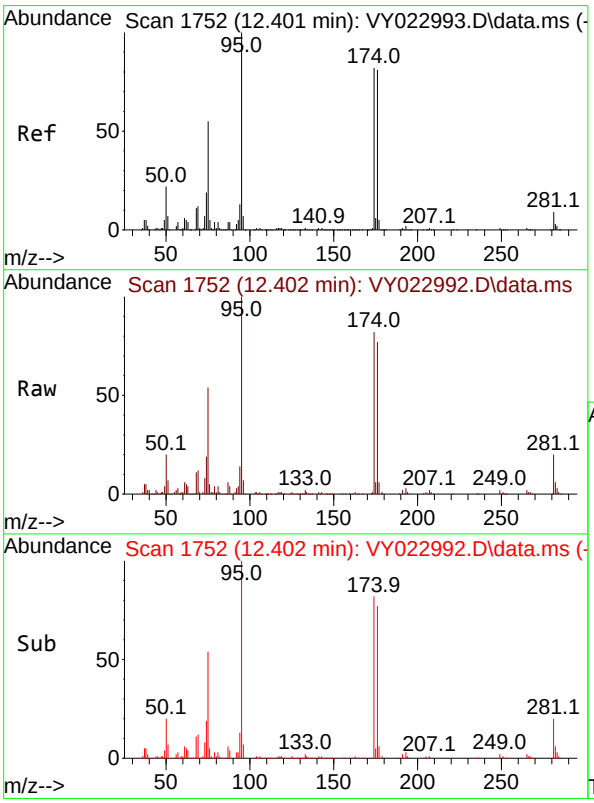
#61
1,2-Dibromoethane
Concen: 22.880 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 64601

Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.1	112.7

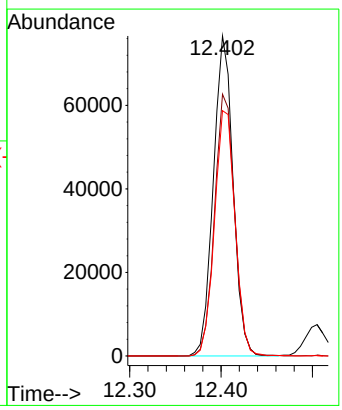


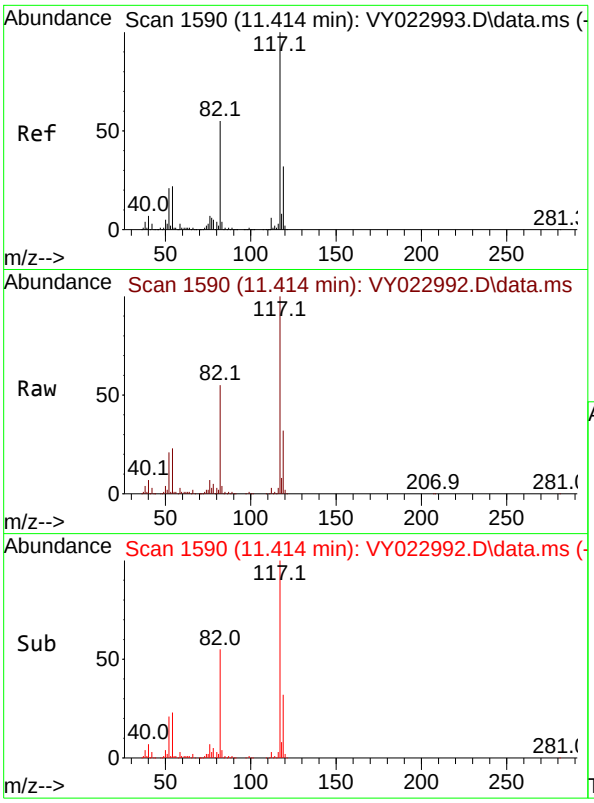


#62
4-Bromofluorobenzene
Concen: 22.270 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 95 Resp: 114873

Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	170.8
176	80.0	0.0	163.6



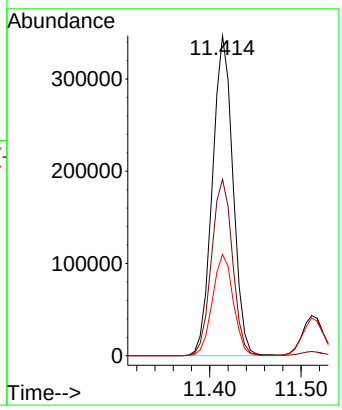


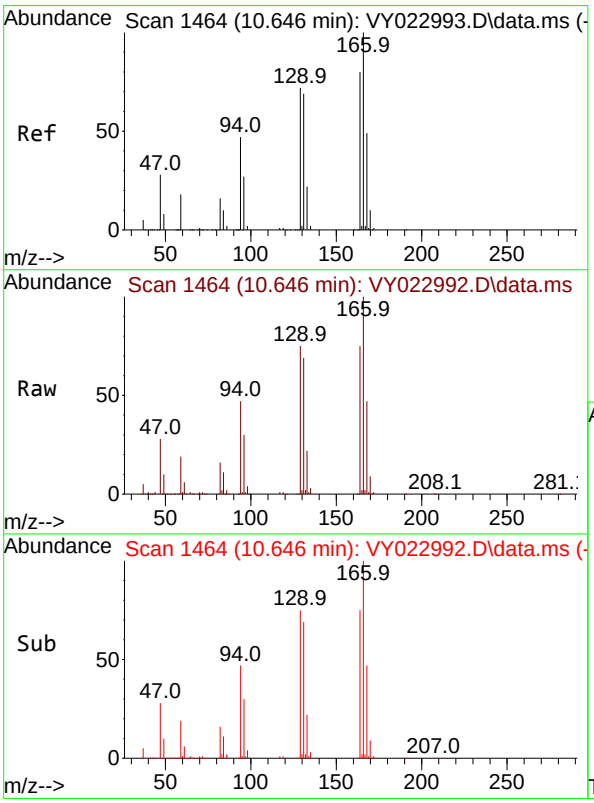
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 541736

Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.3	66.5
119	31.7	25.8	38.8

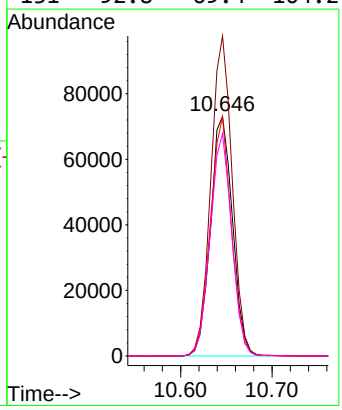


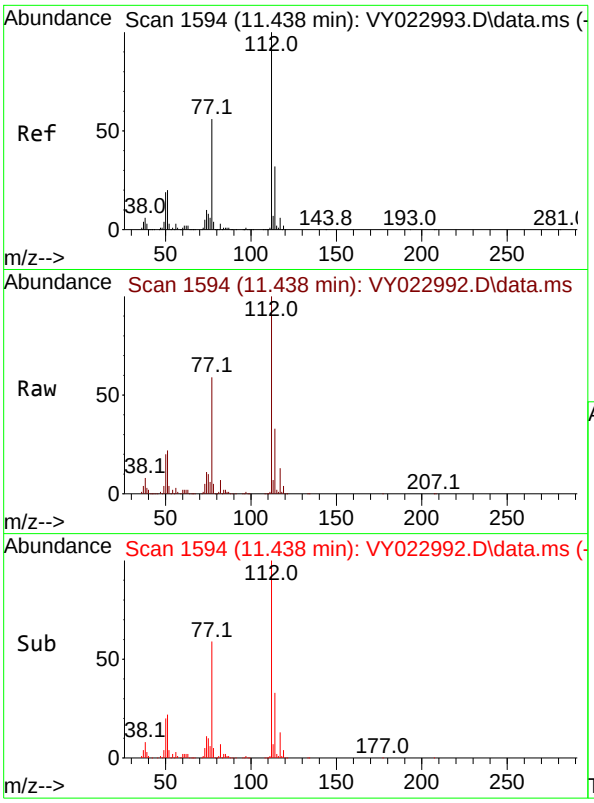


#64
Tetrachloroethene
Concen: 22.057 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:164 Resp: 122138

Ion	Ratio	Lower	Upper
164	100		
166	133.6	100.2	150.2
129	99.9	71.7	107.5
131	92.8	69.4	104.2



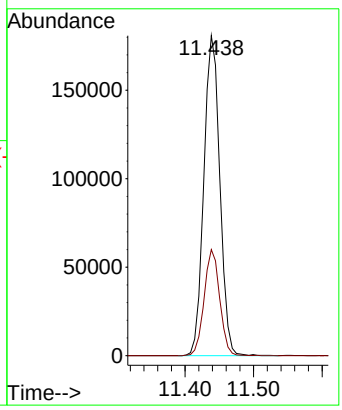


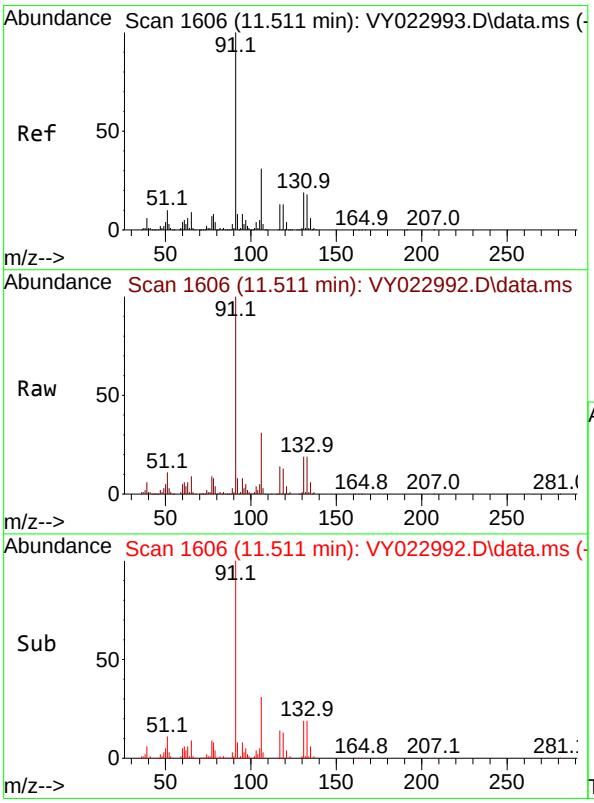
#65
Chlorobenzene
Concen: 22.989 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 293874

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.4	38.2

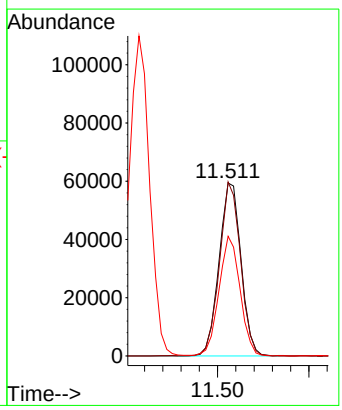


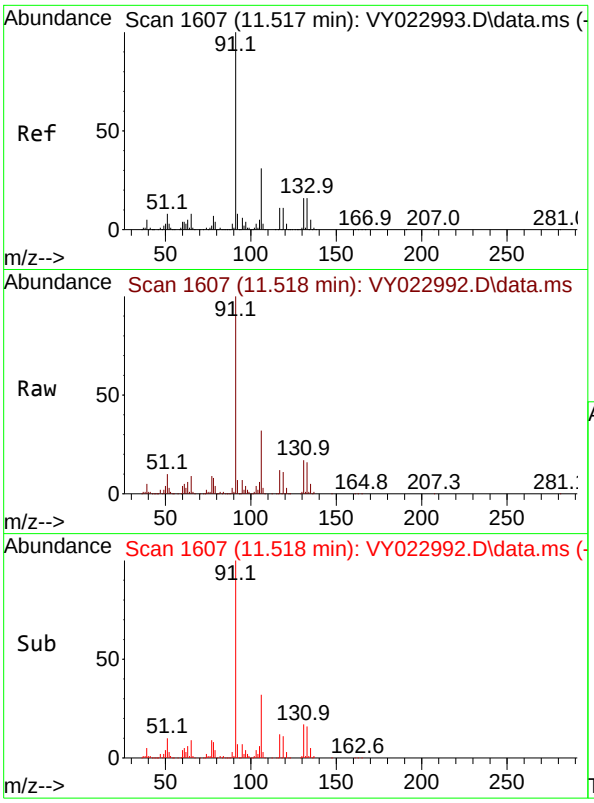


#66
1,1,1,2-Tetrachloroethane
Concen: 22.732 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:131 Resp: 99114

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.8	143.3
119	66.6	33.3	99.8



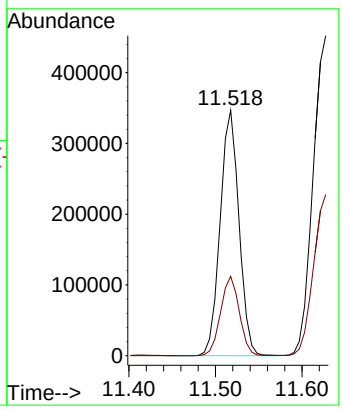


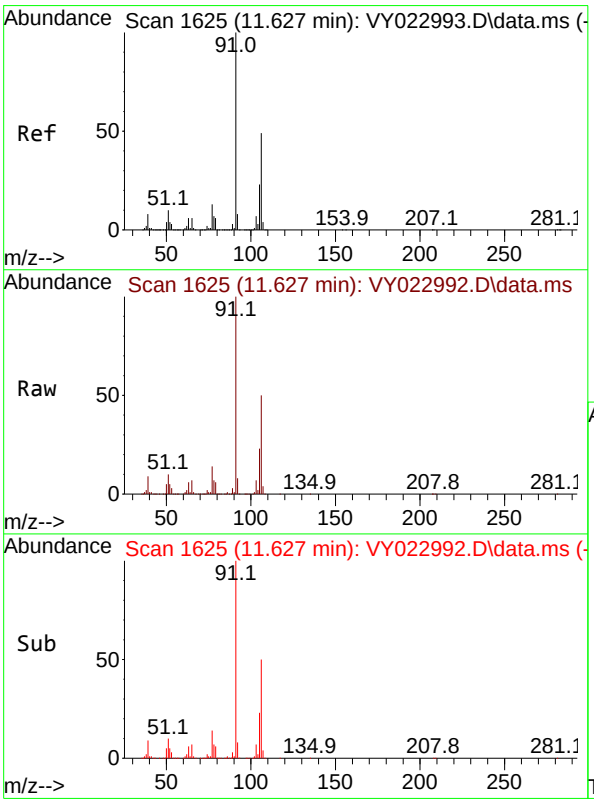
#67
Ethyl Benzene
Concen: 23.080 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 522955

Ion	Ratio	Lower	Upper
91	100		
106	32.4	24.6	37.0

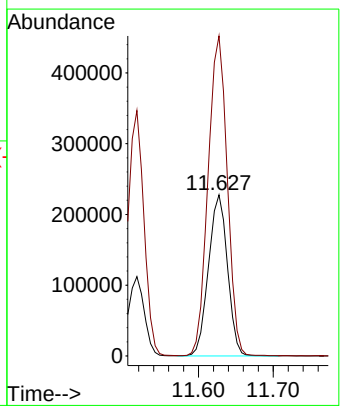


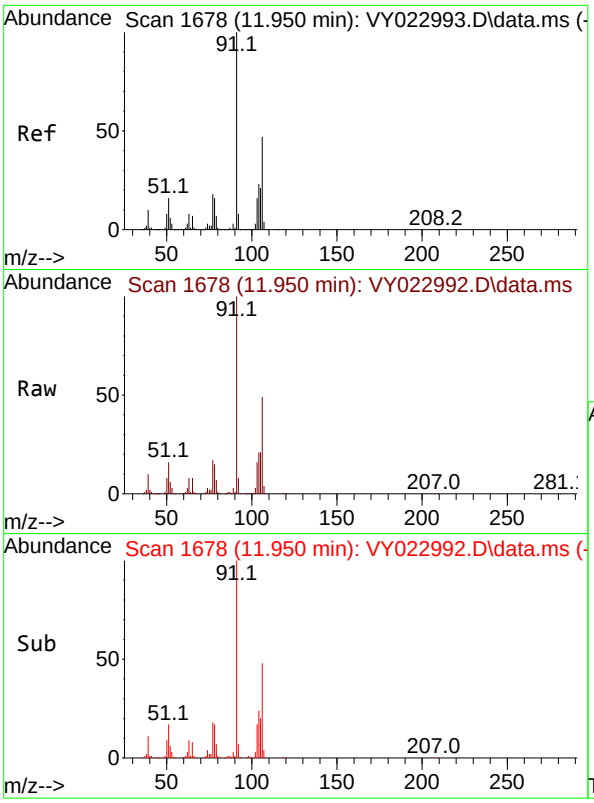


#68
m/p-Xylenes
Concen: 46.261 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:106 Resp: 402055

Ion	Ratio	Lower	Upper
106	100		
91	201.1	159.8	239.8



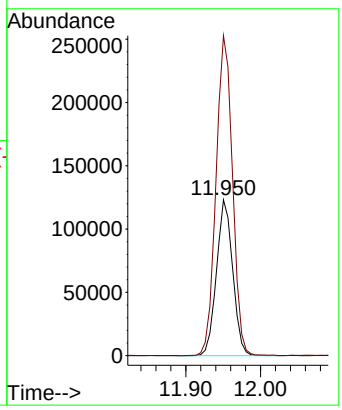


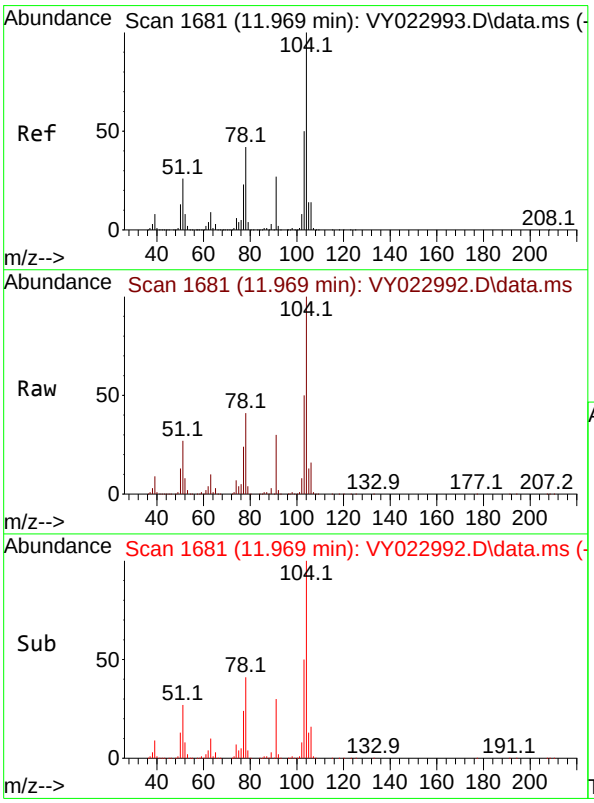
#69
o-Xylene
Concen: 23.067 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 186047

Ion	Ratio	Lower	Upper
106	100		
91	209.5	106.3	318.8

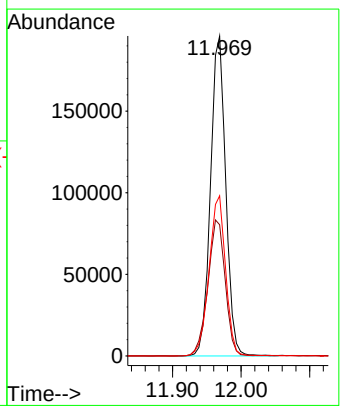


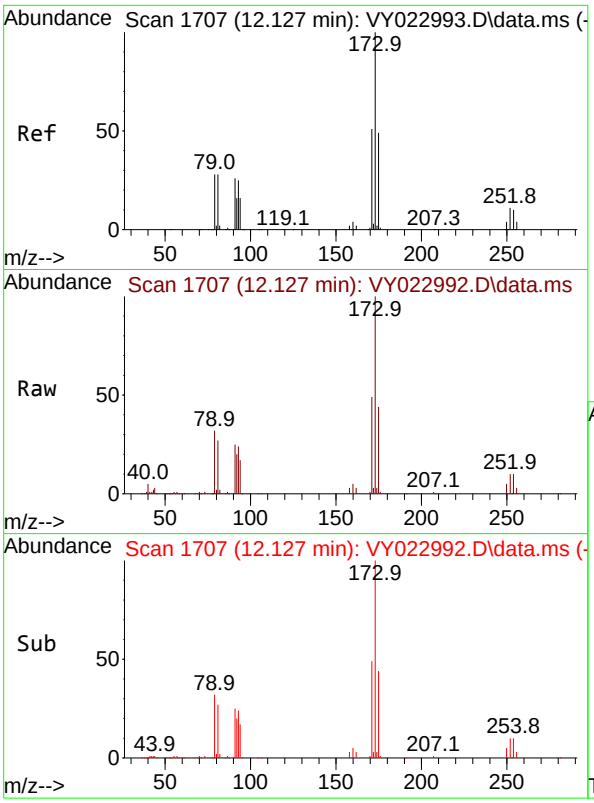


#70
Styrene
Concen: 22.952 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:104 Resp: 303236

Ion	Ratio	Lower	Upper
104	100		
78	48.4	39.0	58.6
103	54.4	43.7	65.5



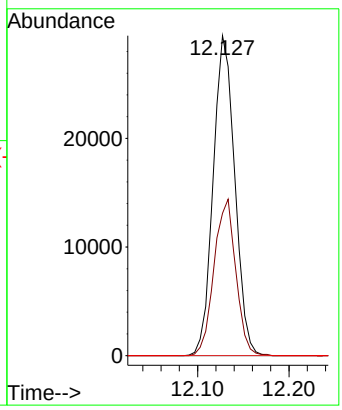


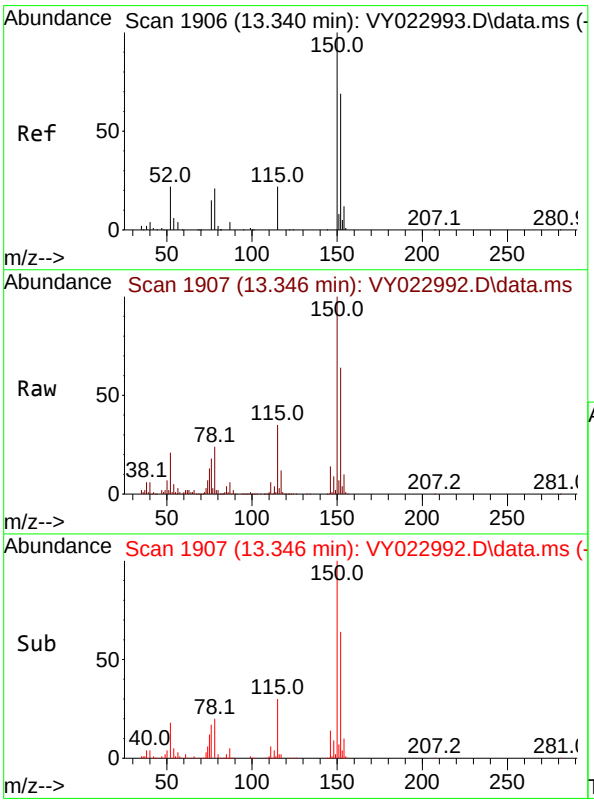
#71
Bromoform
Concen: 21.879 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 48429

Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.0	0.2	0.2#

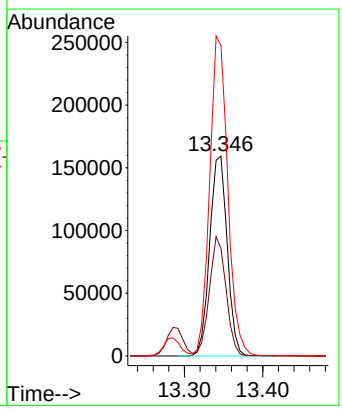


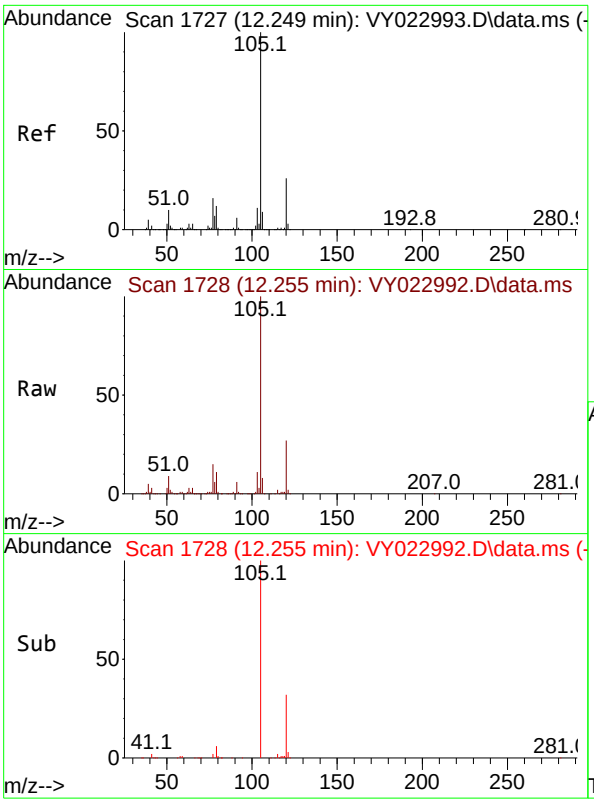


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:152 Resp: 248244

Ion	Ratio	Lower	Upper
152	100		
115	56.4	29.4	88.2
150	164.8	0.0	350.0



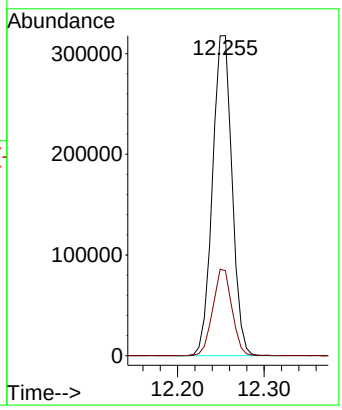


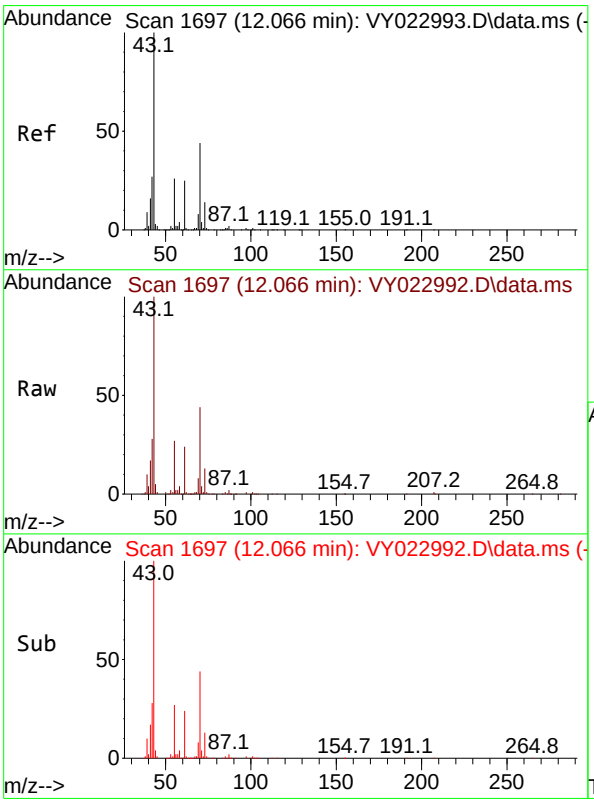
#73
Isopropylbenzene
Concen: 23.656 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 497888

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.6

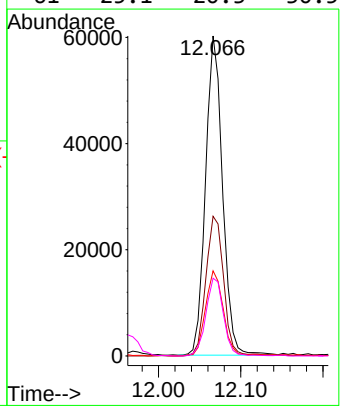


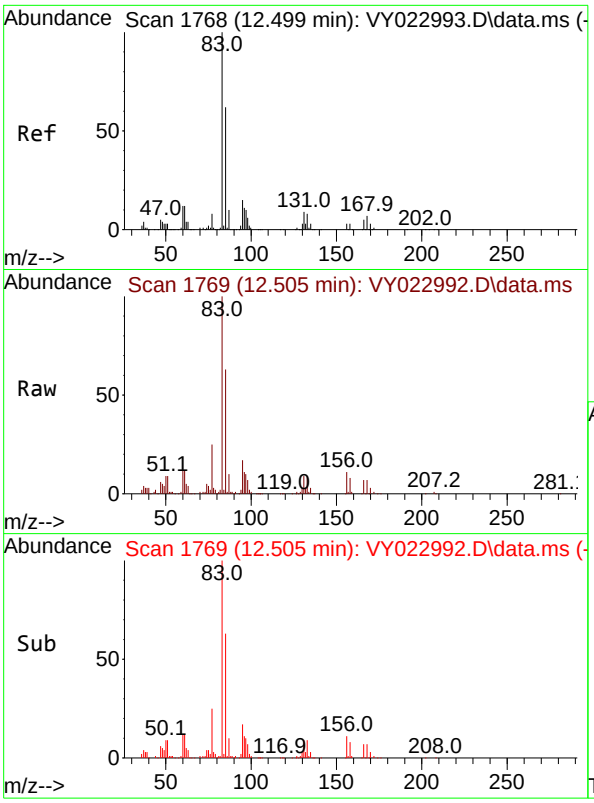


#74
N-amyl acetate
Concen: 21.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 43 Resp: 86729

Ion	Ratio	Lower	Upper
43	100		
70	46.0	36.2	54.2
55	28.1	20.9	31.3
61	25.1	20.3	30.5



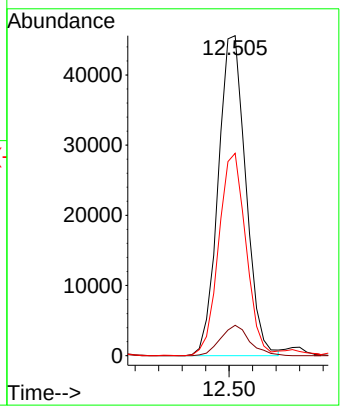


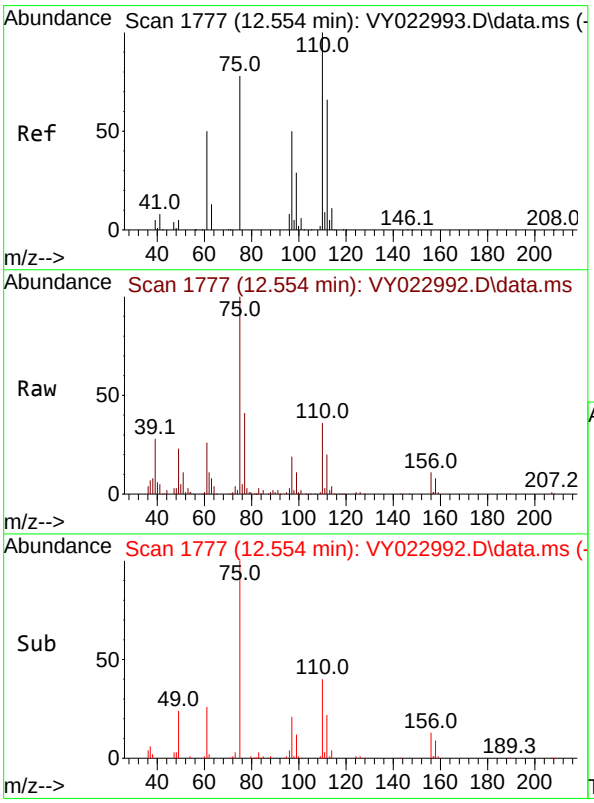
#75
1,1,2,2-Tetrachloroethane
Concen: 24.423 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 74385

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	62.7	31.9	95.7

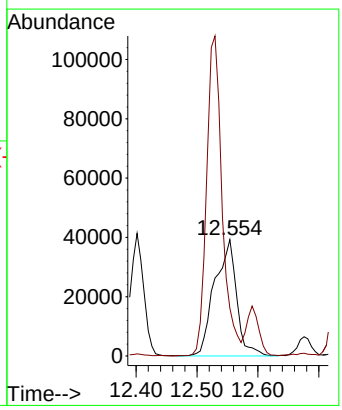


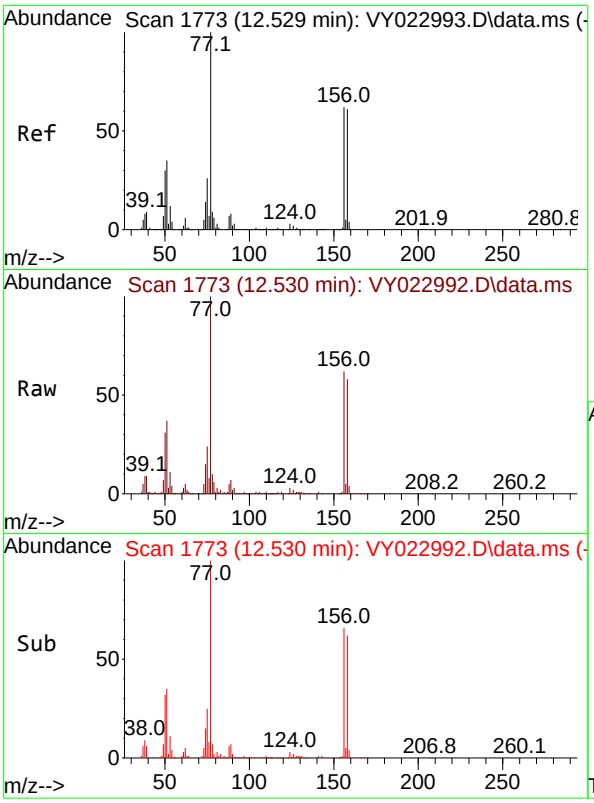


#76
1,2,3-Trichloropropane
Concen: 31.675 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 98962

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



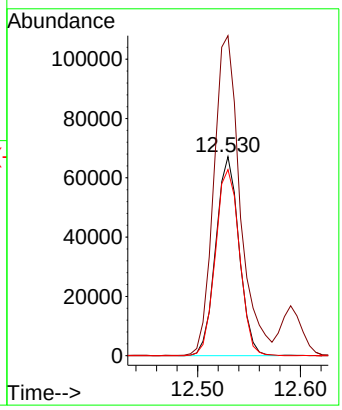


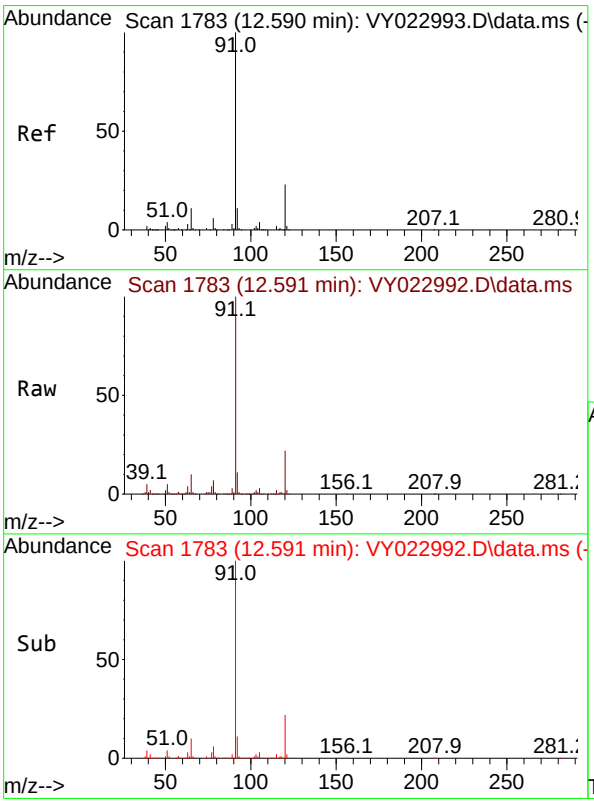
#77
Bromobenzene
Concen: 23.124 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 105553

Ion	Ratio	Lower	Upper
156	100		
77	182.2	92.0	276.1
158	96.5	48.6	145.9

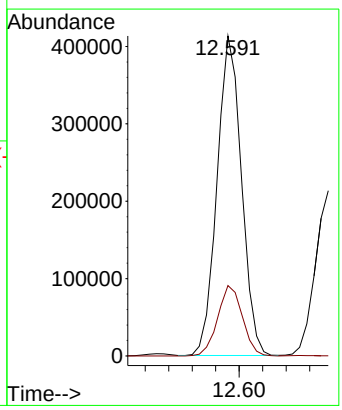


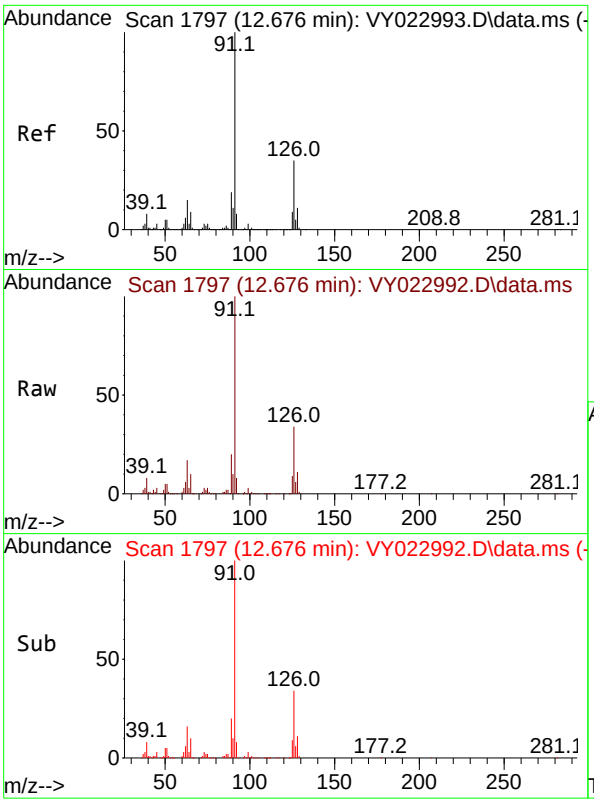


#78
n-propylbenzene
Concen: 23.816 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 91 Resp: 596905

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.8



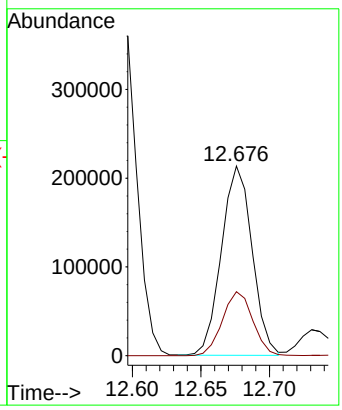


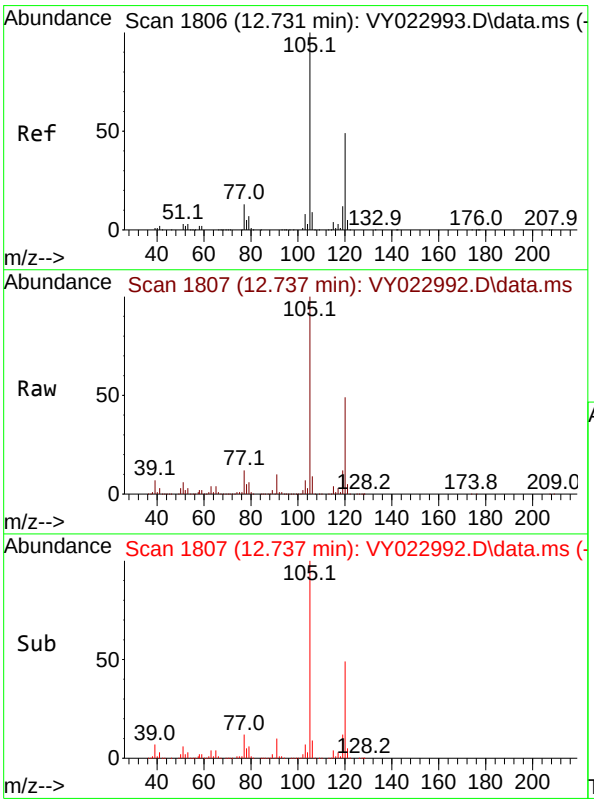
#79
2-Chlorotoluene
Concen: 23.524 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 331602

Ion	Ratio	Lower	Upper
91	100		
126	33.5	17.0	50.9

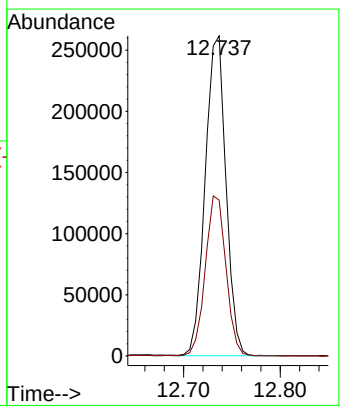


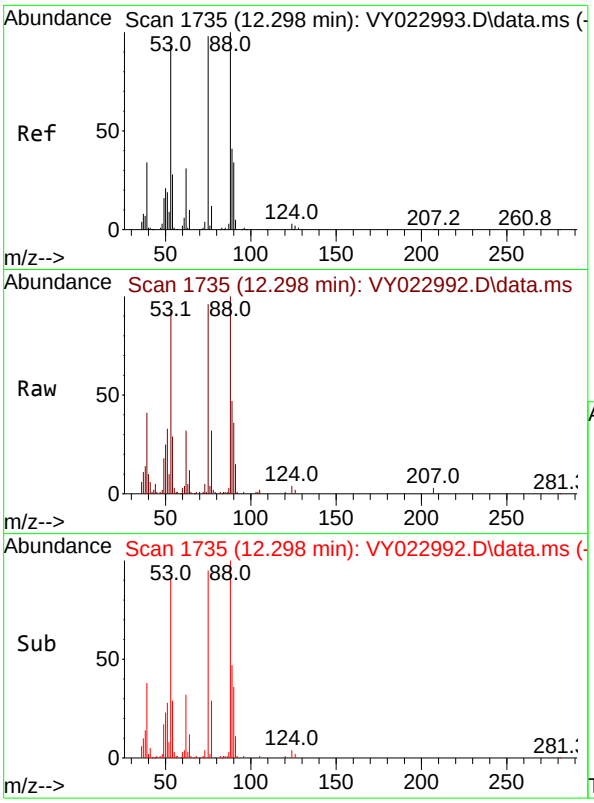


#80
1,3,5-Trimethylbenzene
Concen: 23.473 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:105 Resp: 389641

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.6	73.8



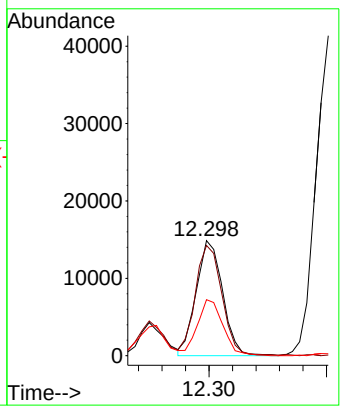


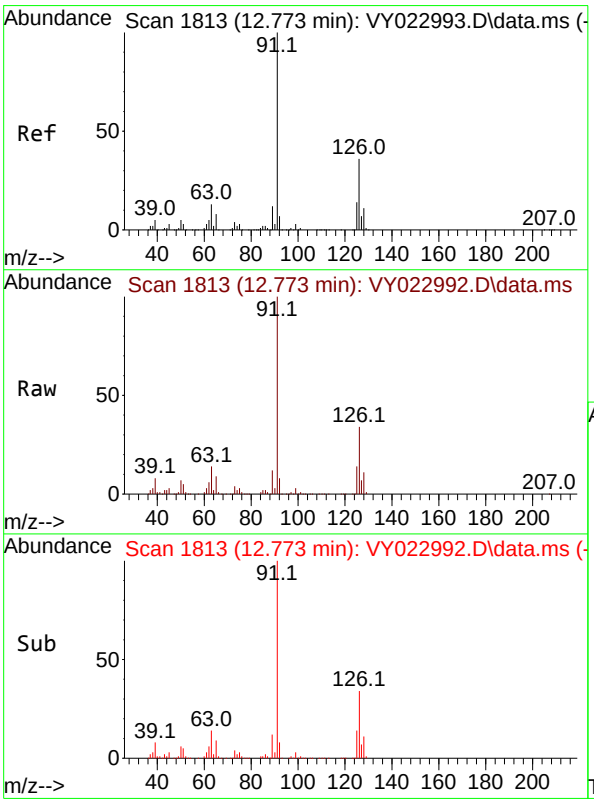
#81
trans-1,4-Dichloro-2-butene
Concen: 22.390 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 23253

Ion	Ratio	Lower	Upper
75	100		
53	97.5	76.1	114.1
89	47.4	36.1	54.1

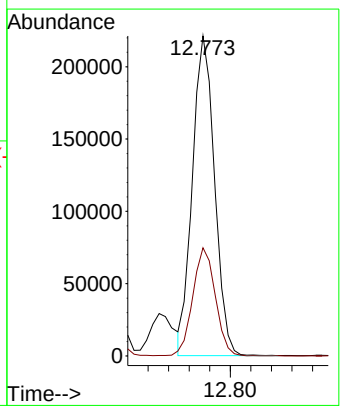


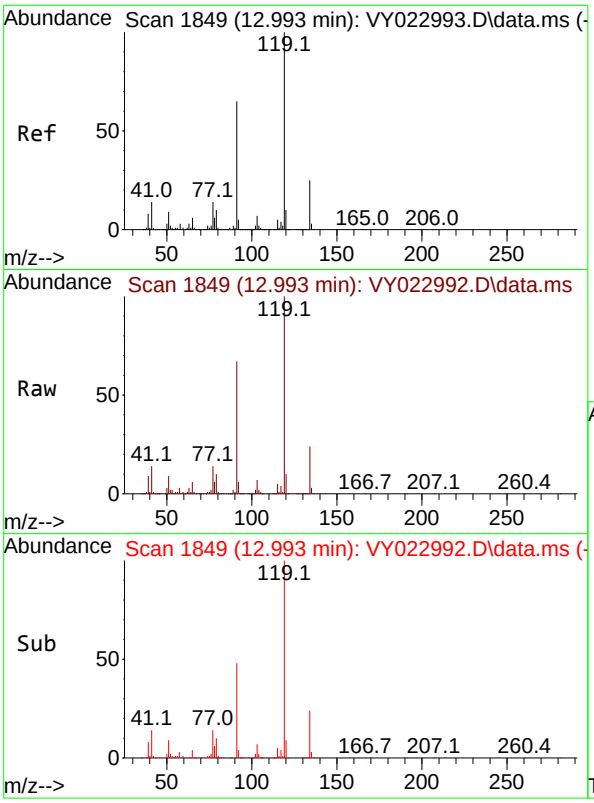


#82
4-Chlorotoluene
Concen: 23.268 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 91 Resp: 330802

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.2	51.5



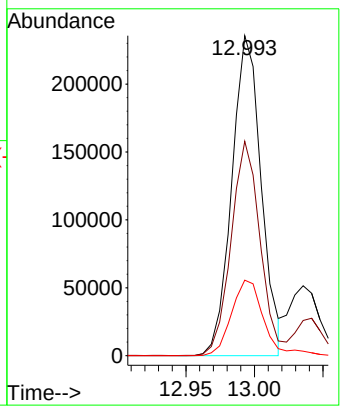


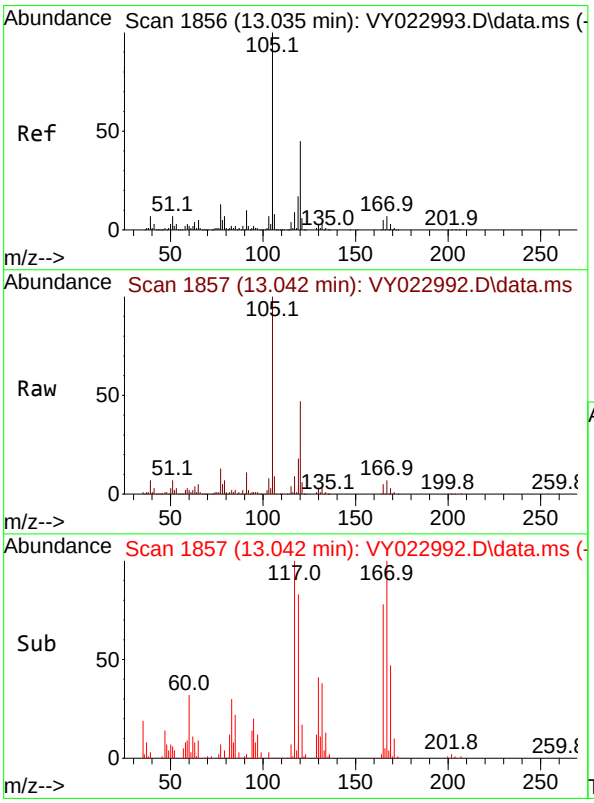
#83
tert-Butylbenzene
Concen: 23.490 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 352211

Ion	Ratio	Lower	Upper
119	100		
91	66.4	32.0	96.2
134	26.0	12.6	37.6

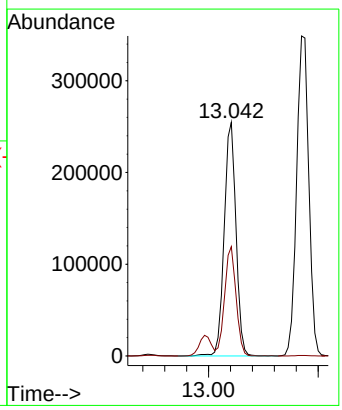


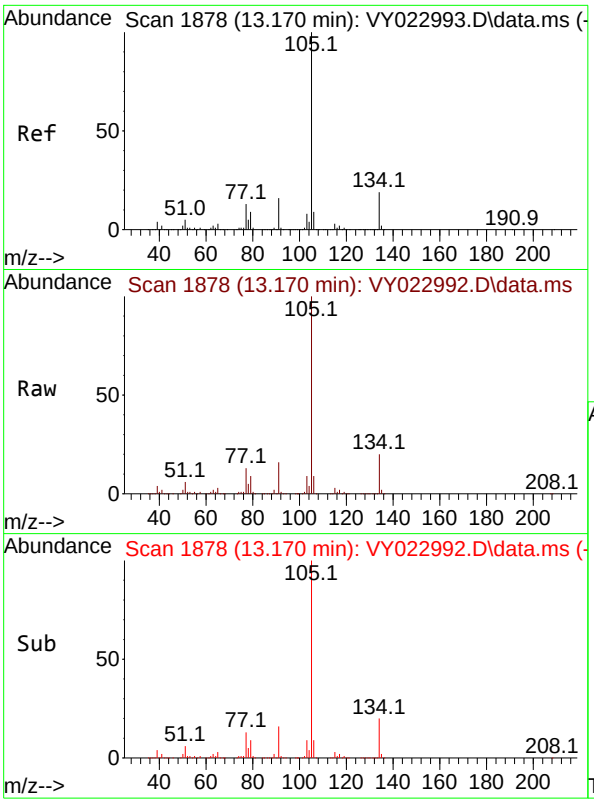


#84
1,2,4-Trimethylbenzene
Concen: 23.411 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:105 Resp: 382534

Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.9	68.8



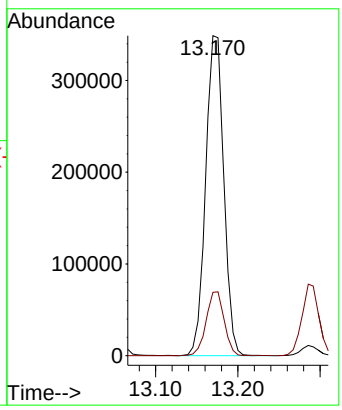


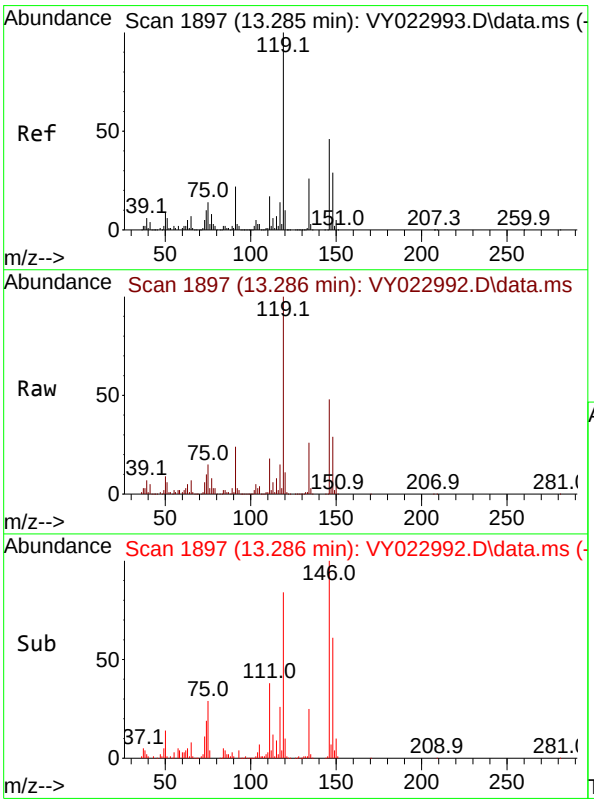
#85
sec-Butylbenzene
Concen: 23.809 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 534996

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

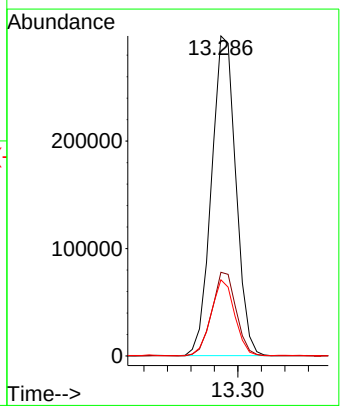


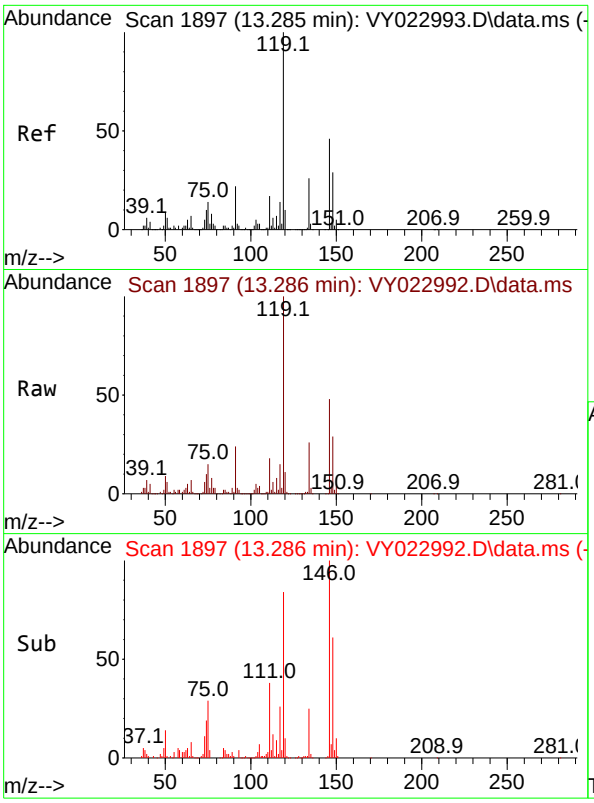


#86
p-Isopropyltoluene
Concen: 23.494 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:119 Resp: 428741

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	22.9	11.4	34.1



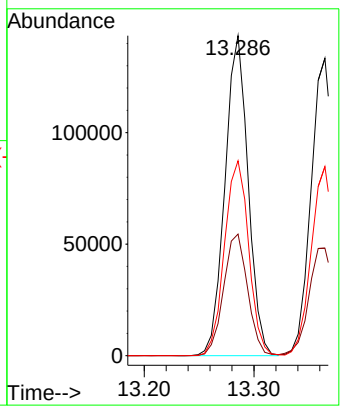


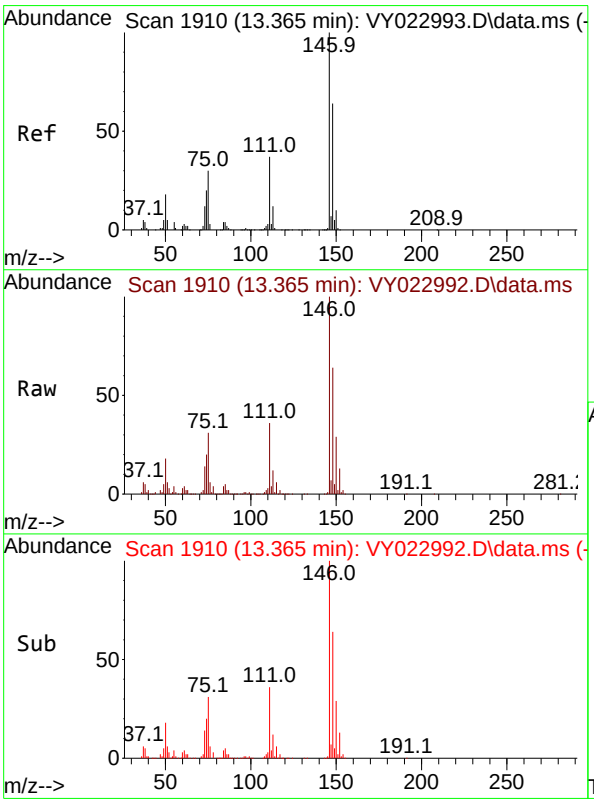
#87
1,3-Dichlorobenzene
Concen: 22.867 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 210649

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.7	31.6	94.8

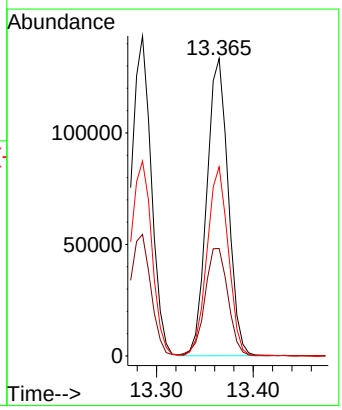


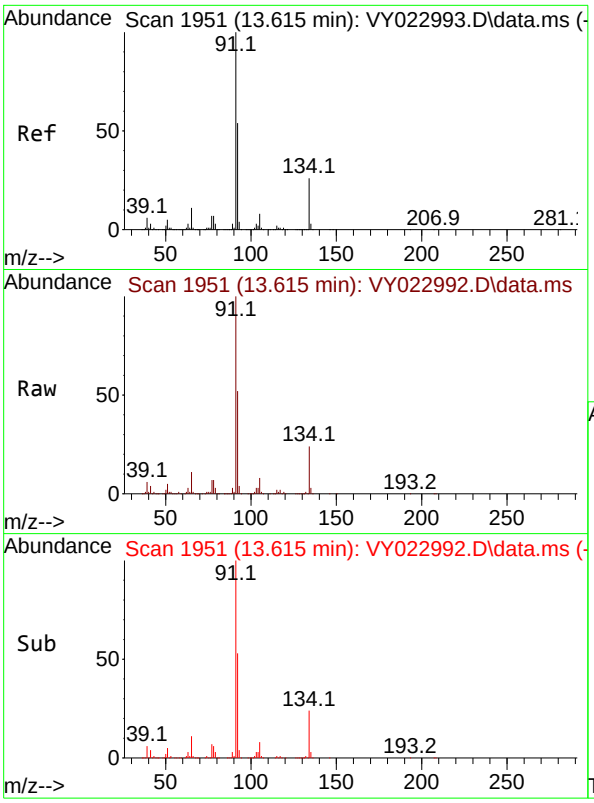


#88
1,4-Dichlorobenzene
Concen: 22.973 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:146 Resp: 204733

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.2	57.6
148	63.5	31.9	95.5



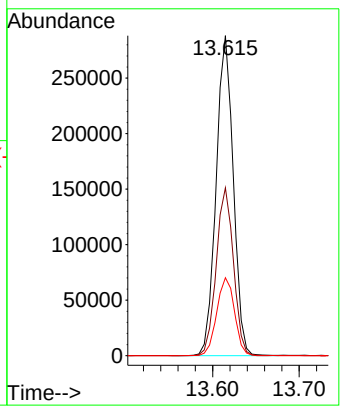


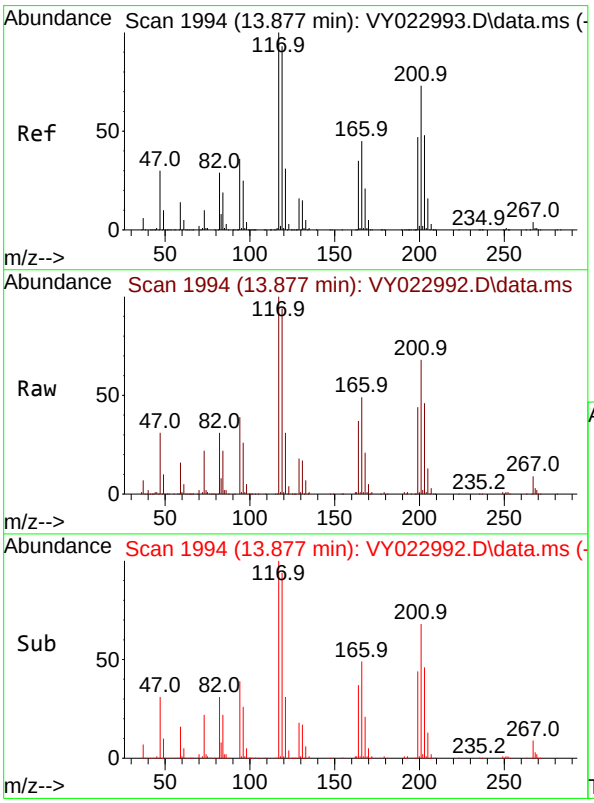
#89
n-Butylbenzene
Concen: 23.531 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 396249

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.6	79.7
134	25.3	12.6	37.6

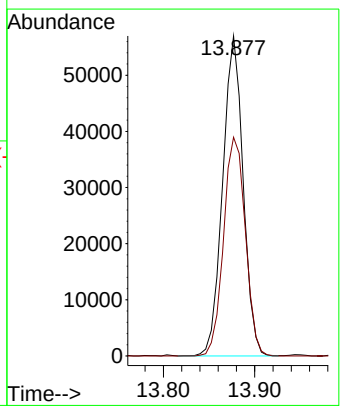


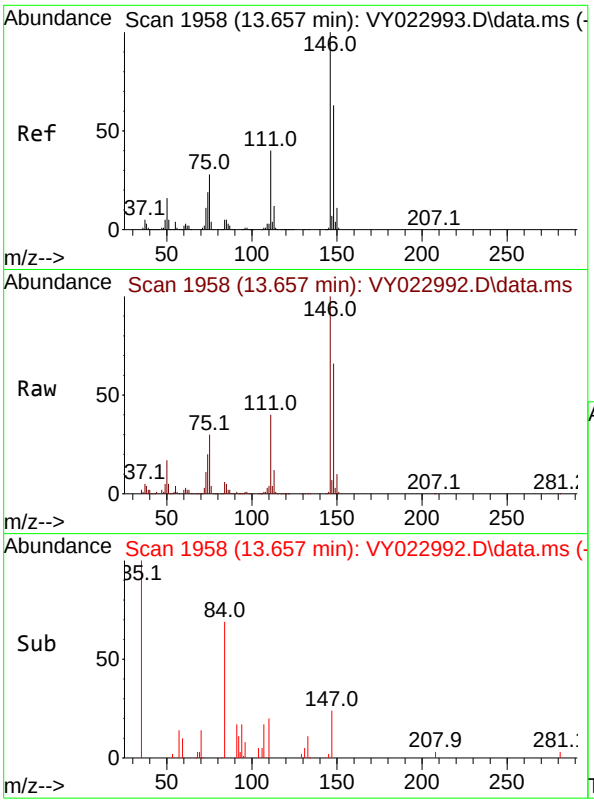


#90
Hexachloroethane
Concen: 23.502 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:117 Resp: 88795

Ion	Ratio	Lower	Upper
117	100		
201	72.6	36.1	108.5



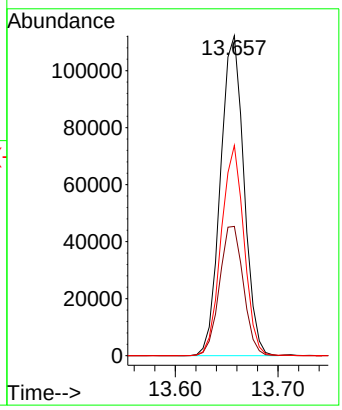


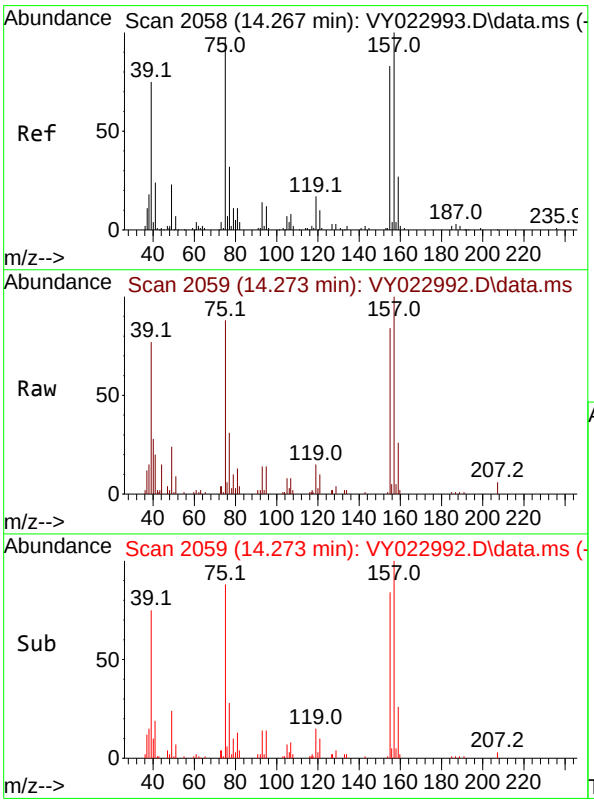
#91
1,2-Dichlorobenzene
Concen: 22.880 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 177792

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.3	61.0
148	63.8	32.0	96.2

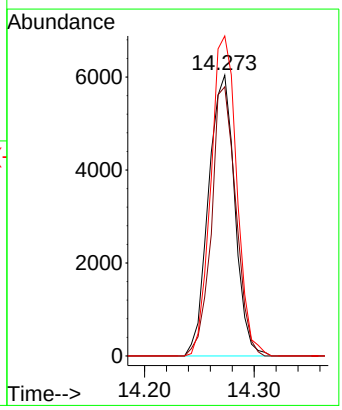


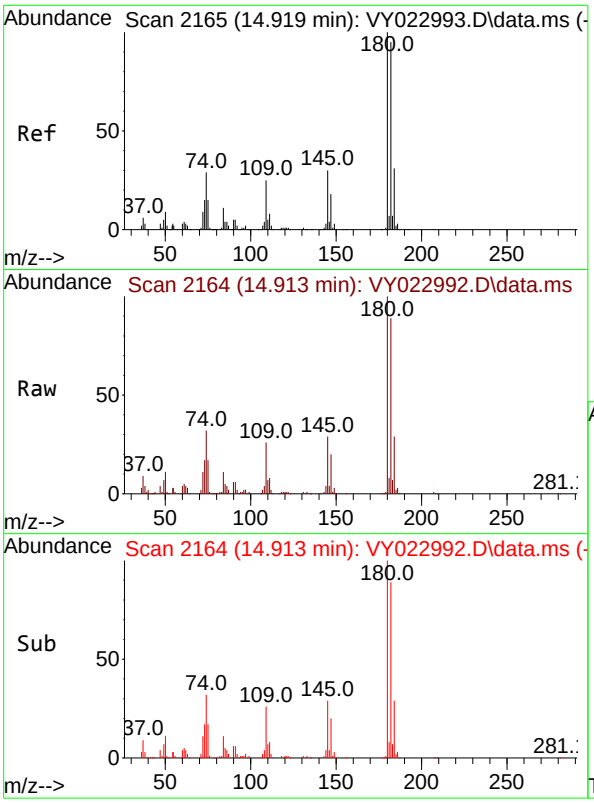


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.174 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion: 75 Resp: 10028

Ion	Ratio	Lower	Upper
75	100		
155	89.3	42.8	128.3
157	112.7	54.3	162.9



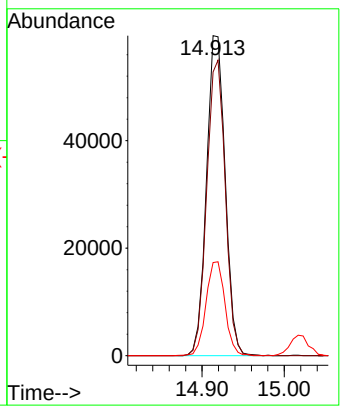


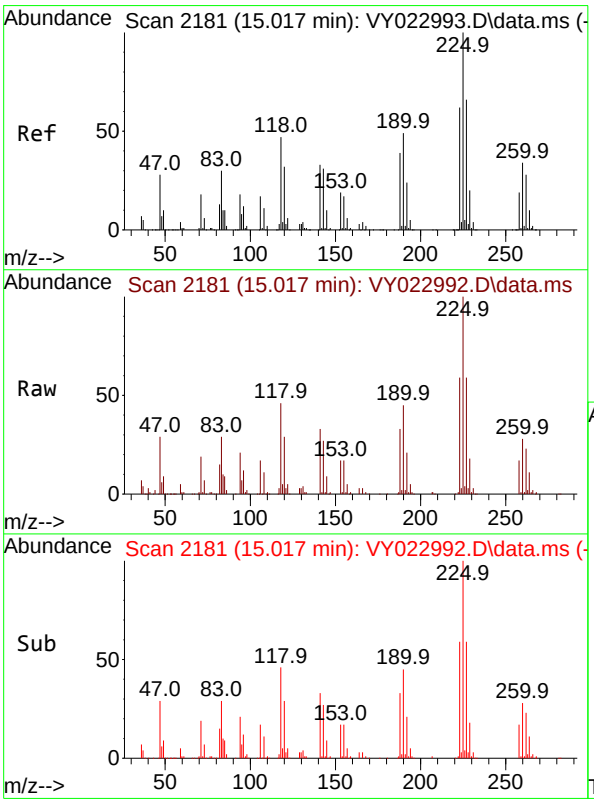
#93
1,2,4-Trichlorobenzene
Concen: 22.942 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 93971

Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.5	142.5
145	29.8	14.9	44.9

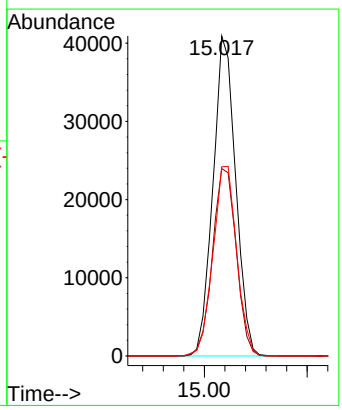


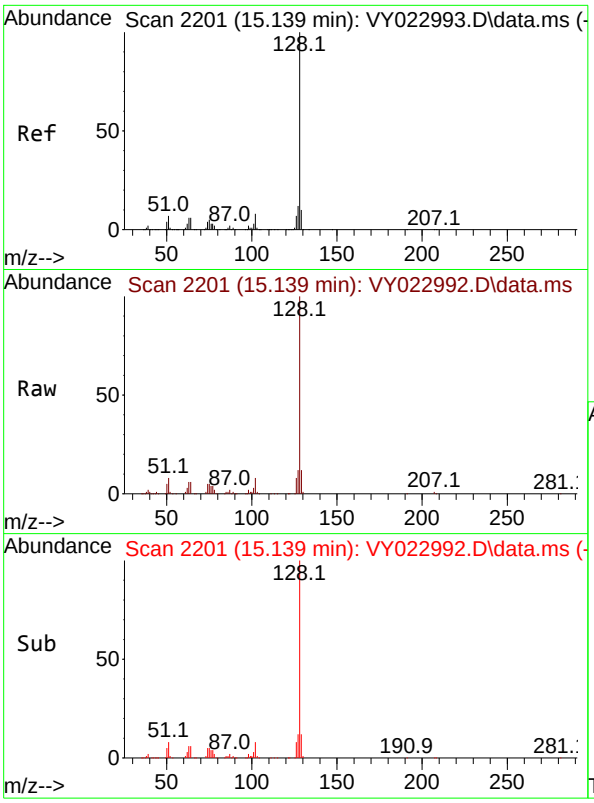


#94
Hexachlorobutadiene
Concen: 24.242 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:225 Resp: 62599

Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.4	94.0
227	62.2	32.1	96.5



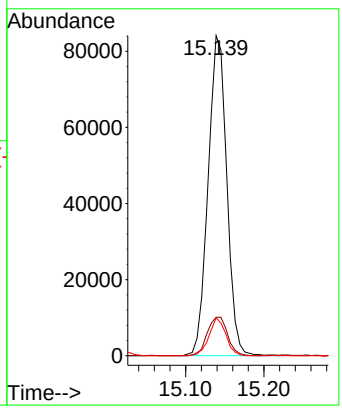


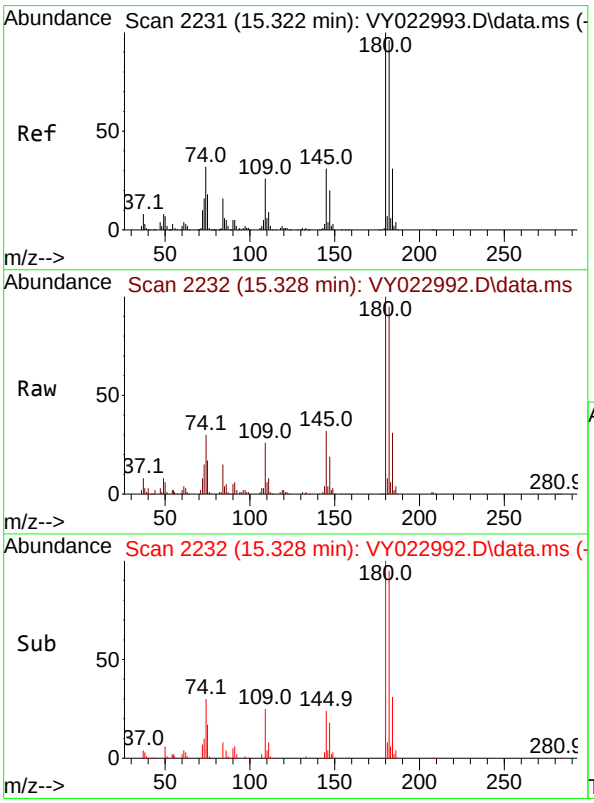
#95
Naphthalene
Concen: 21.209 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 139330

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.6	8.6	12.8

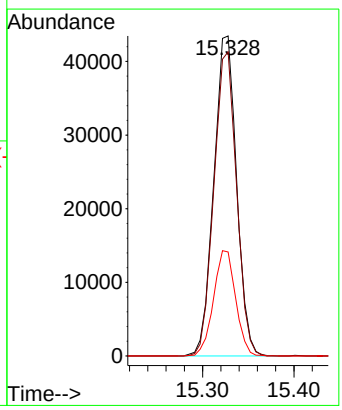




#96
1,2,3-Trichlorobenzene
Concen: 22.219 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY022992.D
Acq: 18 Jul 2025 11:41

Tgt Ion:180 Resp: 75143

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	142.0
145	32.0	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	501817	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	789191	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	664286	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	311329	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	239014	47.050	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.100%			
35) Dibromofluoromethane	7.634	113	238242	47.590	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.180%			
50) Toluene-d8	10.103	98	950656	47.886	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.780%			
62) 4-Bromofluorobenzene	12.401	95	291196	46.597	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 93.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	184397	43.276	ug/l	100
3) Chloromethane	2.068	50	310189	42.813	ug/l	100
4) Vinyl Chloride	2.202	62	413768	45.077	ug/l	100
5) Bromomethane	2.592	94	278011	41.966	ug/l	100
6) Chloroethane	2.732	64	279256	45.553	ug/l	100
7) Trichlorofluoromethane	3.049	101	488462	45.842	ug/l	100
8) Diethyl Ether	3.452	74	124617	44.685	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	252620	45.131	ug/l	100
10) Methyl Iodide	4.001	142	285736	49.138	ug/l	100
11) Tert butyl alcohol	4.854	59	73810	238.938	ug/l	100
12) 1,1-Dichloroethene	3.787	96	239058	44.832	ug/l	100
13) Acrolein	3.653	56	18455	132.538	ug/l	100
14) Allyl chloride	4.378	41	371772	45.764	ug/l	100
15) Acrylonitrile	5.055	53	247093	233.921	ug/l	100
16) Acetone	3.866	43	194159	210.847	ug/l	100
17) Carbon Disulfide	4.104	76	721811	44.664	ug/l	100
18) Methyl Acetate	4.385	43	162254	52.045	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	597847	46.744	ug/l	100
20) Methylene Chloride	4.610	84	304504	46.415	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	267267	45.028	ug/l	100
22) Diisopropyl ether	6.018	45	800264	46.434	ug/l	100
23) Vinyl Acetate	5.957	43	2025238	233.221	ug/l	100
24) 1,1-Dichloroethane	5.915	63	494896	45.718	ug/l	100
25) 2-Butanone	6.890	43	309076	233.963	ug/l	100
26) 2,2-Dichloropropane	6.884	77	430578	45.386	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	316409	46.253	ug/l	100
28) Bromochloromethane	7.244	49	199840	47.598	ug/l	100
29) Tetrahydrofuran	7.262	42	204304	244.270	ug/l	100
30) Chloroform	7.421	83	497058	45.518	ug/l	100
31) Cyclohexane	7.701	56	441500	43.650	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	453173	45.738	ug/l	100
36) 1,1-Dichloropropene	7.835	75	372166	47.196	ug/l	100
37) Ethyl Acetate	6.982	43	138948	47.445	ug/l	100
38) Carbon Tetrachloride	7.817	117	400589	46.760	ug/l	100
39) Methylcyclohexane	9.109	83	482312	47.256	ug/l	100
40) Benzene	8.079	78	1113790	46.911	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	78701	50.913	ug/l		100
42) 1,2-Dichloroethane	8.158	62	282749	47.867	ug/l		100
43) Isopropyl Acetate	8.195	43	288097	49.524	ug/l		100
44) Trichloroethene	8.866	130	288157	47.253	ug/l		100
45) 1,2-Dichloropropane	9.140	63	258018	46.536	ug/l		100
46) Dibromomethane	9.231	93	137104	47.840	ug/l		100
47) Bromodichloromethane	9.420	83	373011	47.086	ug/l		100
48) Methyl methacrylate	9.219	41	141851	50.507	ug/l		100
49) 1,4-Dioxane	9.225	88	30004	993.216	ug/l		100
51) 4-Methyl-2-Pentanone	9.993	43	754317	255.467	ug/l		100
52) Toluene	10.170	92	703655	47.669	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	326909	48.074	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	388343	47.380	ug/l		100
55) 1,1,2-Trichloroethane	10.566	97	179703	47.708	ug/l		100
56) Ethyl methacrylate	10.438	69	237585	50.527	ug/l		100
57) 1,3-Dichloropropane	10.713	76	309762	47.605	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	618691	268.792	ug/l		100
59) 2-Hexanone	10.755	43	499848	257.540	ug/l		100
60) Dibromochloromethane	10.908	129	239431	48.542	ug/l		100
61) 1,2-Dibromoethane	11.011	107	165428	48.362	ug/l		100
64) Tetrachloroethene	10.646	164	340698	50.177	ug/l		100
65) Chlorobenzene	11.438	112	739951	47.205	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	249587	46.683	ug/l		100
67) Ethyl Benzene	11.517	91	1333383	47.990	ug/l		100
68) m/p-Xylenes	11.627	106	1025693	96.245	ug/l		100
69) o-Xylene	11.950	106	473669	47.893	ug/l		100
70) Styrene	11.969	104	788910	48.697	ug/l		100
71) Bromoform	12.127	173	128589	47.377	ug/l		100
73) Isopropylbenzene	12.249	105	1261366	47.788	ug/l		100
74) N-amyl acetate	12.066	43	247232	49.681	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	174373	45.650	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	261721	66.795	ug/l	#	100
77) Bromobenzene	12.529	156	270964	47.332	ug/l		100
78) n-propylbenzene	12.590	91	1513613	48.154	ug/l		100
79) 2-Chlorotoluene	12.676	91	834869	47.226	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	999303	48.002	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	62367	47.883	ug/l		100
82) 4-Chlorotoluene	12.773	91	849887	47.667	ug/l		100
83) tert-Butylbenzene	12.993	119	911526	48.474	ug/l		100
84) 1,2,4-Trimethylbenzene	13.035	105	987090	48.169	ug/l		100
85) sec-Butylbenzene	13.170	105	1351665	47.965	ug/l		100
86) p-Isopropyltoluene	13.285	119	1110110	48.505	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	544923	47.167	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	525144	46.985	ug/l		100
89) n-Butylbenzene	13.615	91	1021282	48.359	ug/l		100
90) Hexachloroethane	13.877	117	221864	46.822	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	460252	47.229	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	28006	49.379	ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	247288	48.140	ug/l		100
94) Hexachlorobutadiene	15.017	225	147284	45.479	ug/l		100
95) Naphthalene	15.139	128	429845	52.172	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	208782	49.224	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

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

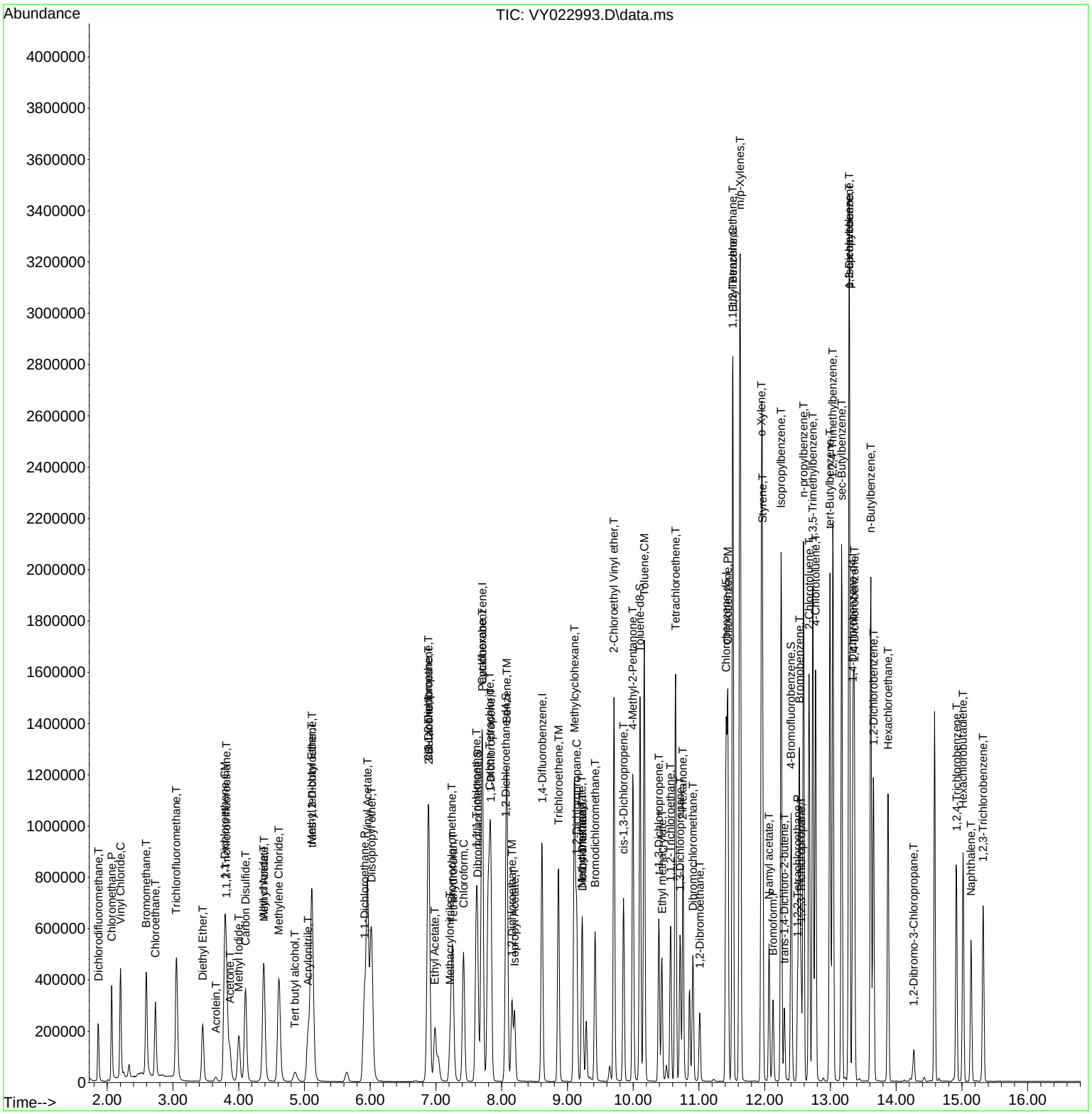
(#) = qualifier out of range (m) = manual integration (+) = signals summed

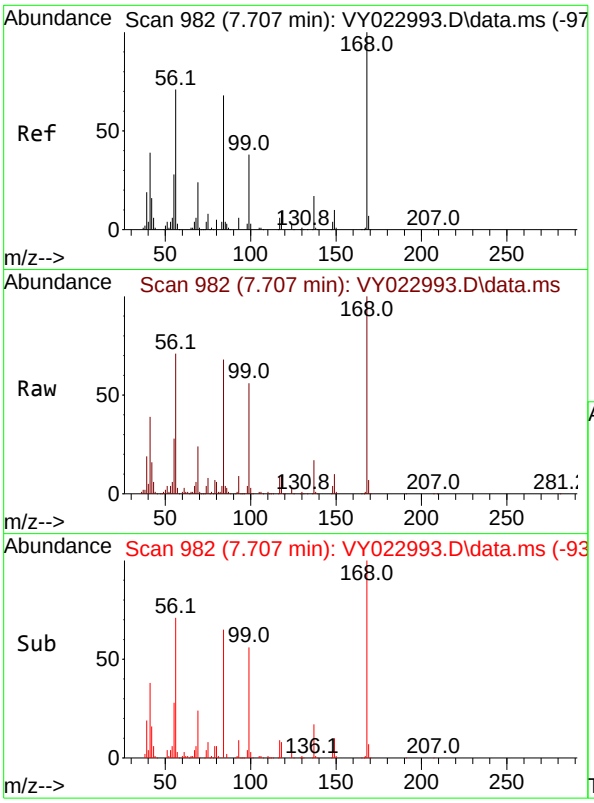
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022993.D
Acq On : 18 Jul 2025 12:04
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Jul 19 01:32:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration



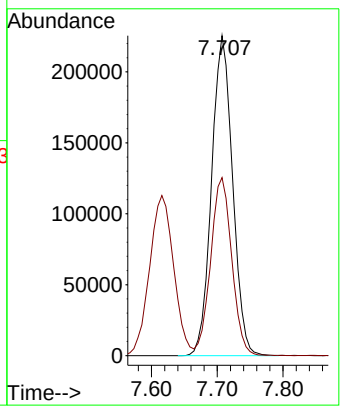


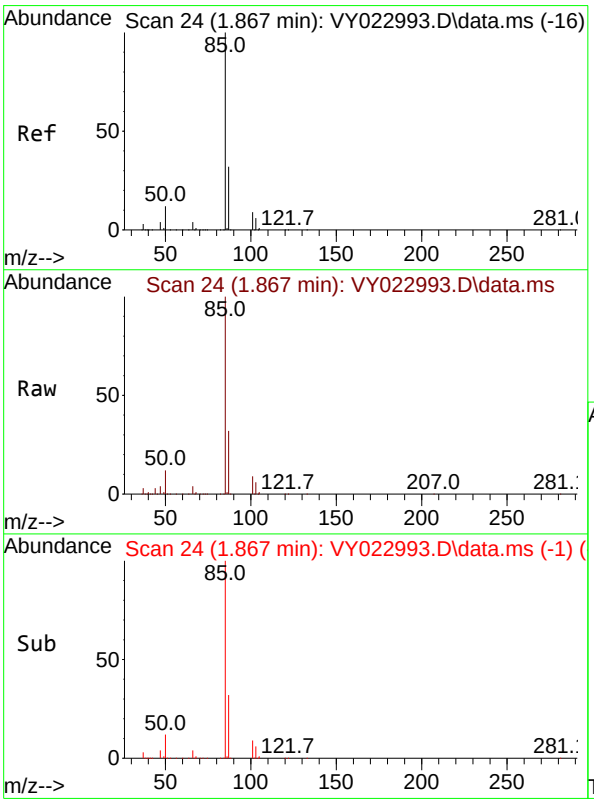
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 501817

Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.4	66.6

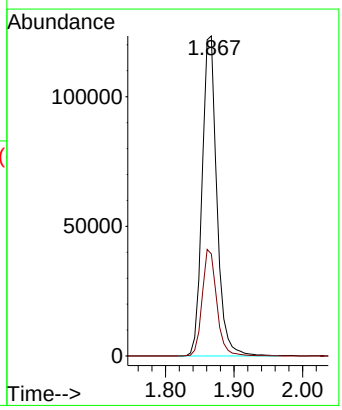


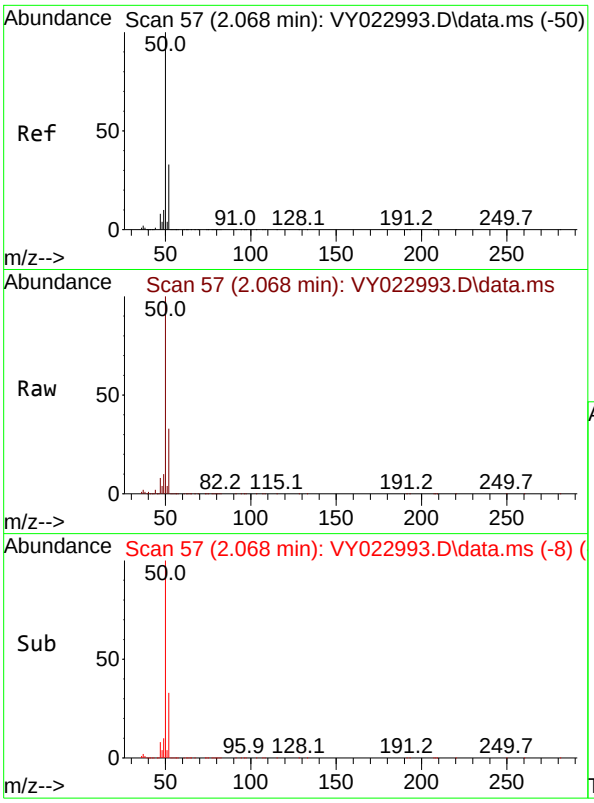


#2
Dichlorodifluoromethane
Concen: 43.276 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 85 Resp: 184397

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.0	47.9



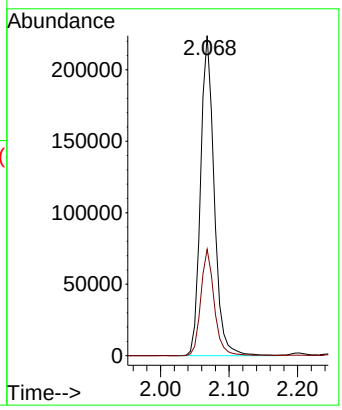


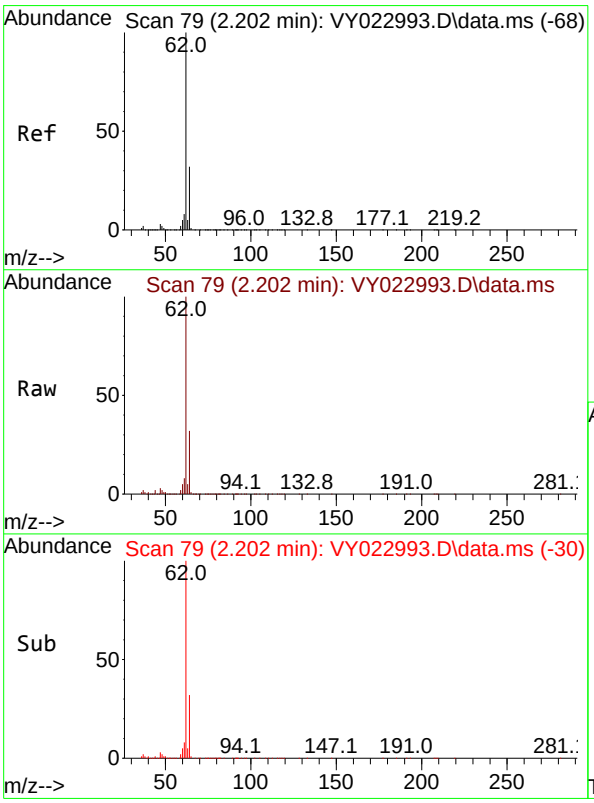
#3
Chloromethane
Concen: 42.813 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 310189

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8

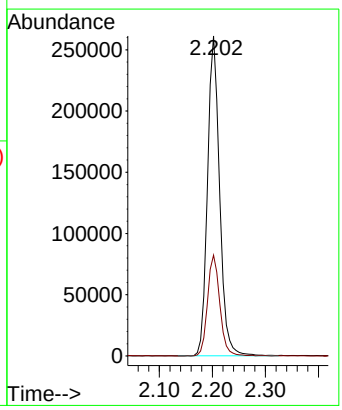


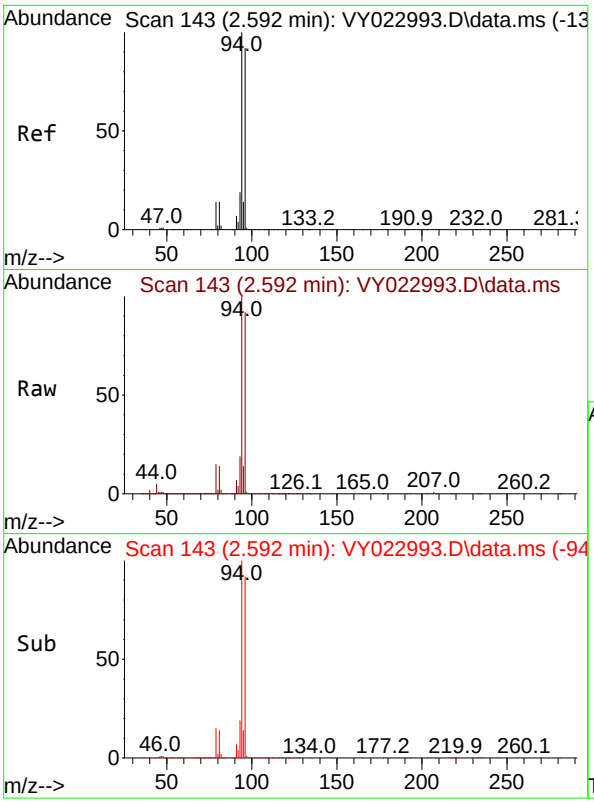


#4
Vinyl Chloride
Concen: 45.077 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 62 Resp: 413768

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8



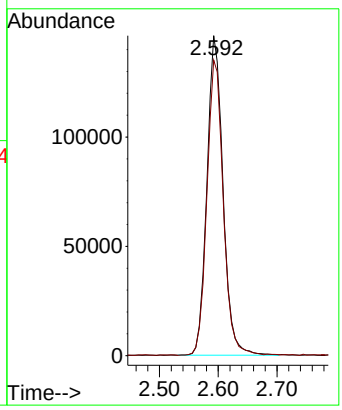


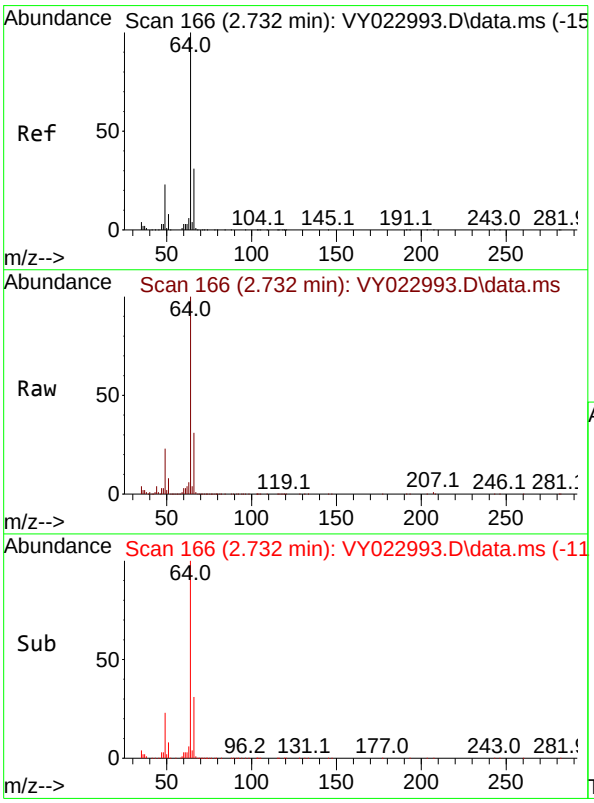
#5
Bromomethane
Concen: 41.966 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 278011

Ion	Ratio	Lower	Upper
94	100		
96	92.4	73.9	110.9

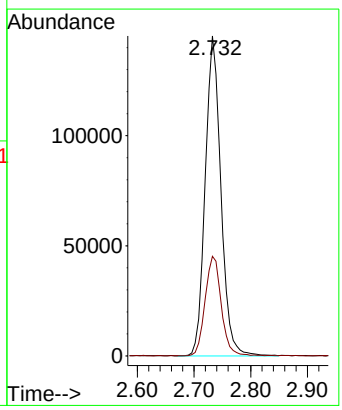


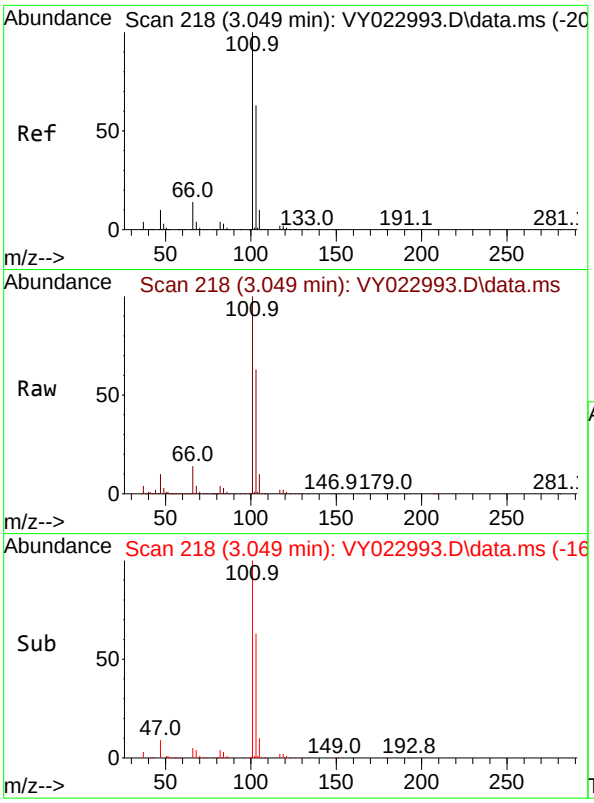


#6
Chloroethane
Concen: 45.553 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 64 Resp: 279256

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.9	37.3



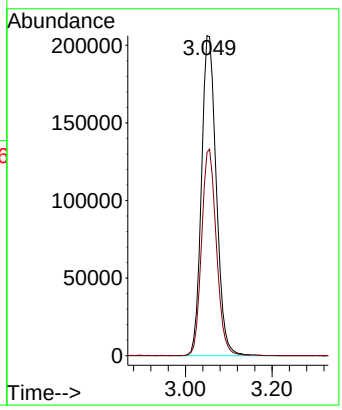


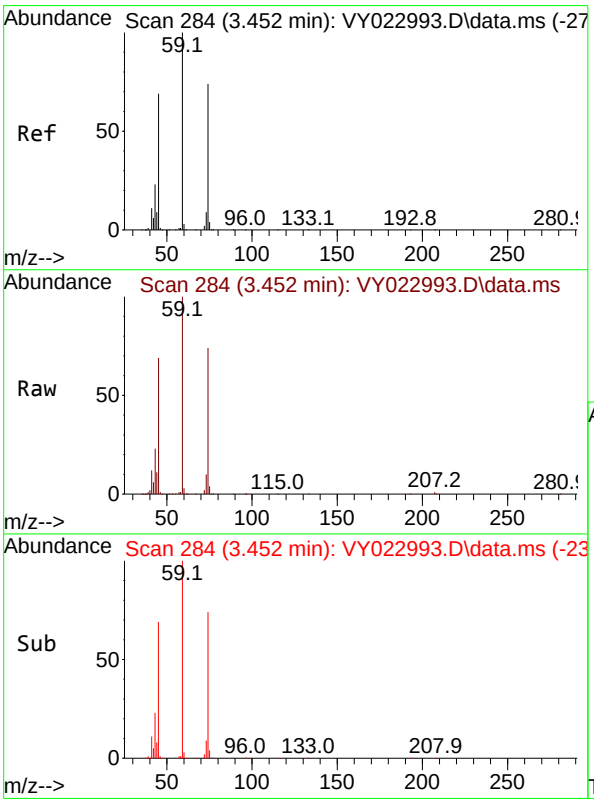
#7
Trichlorofluoromethane
Concen: 45.842 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 488462

Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.7	76.1

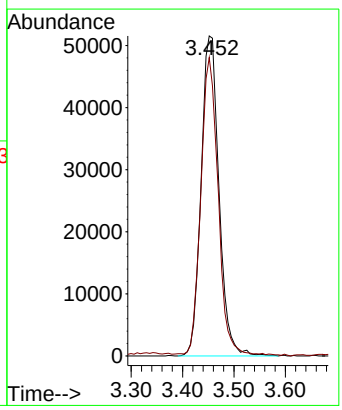


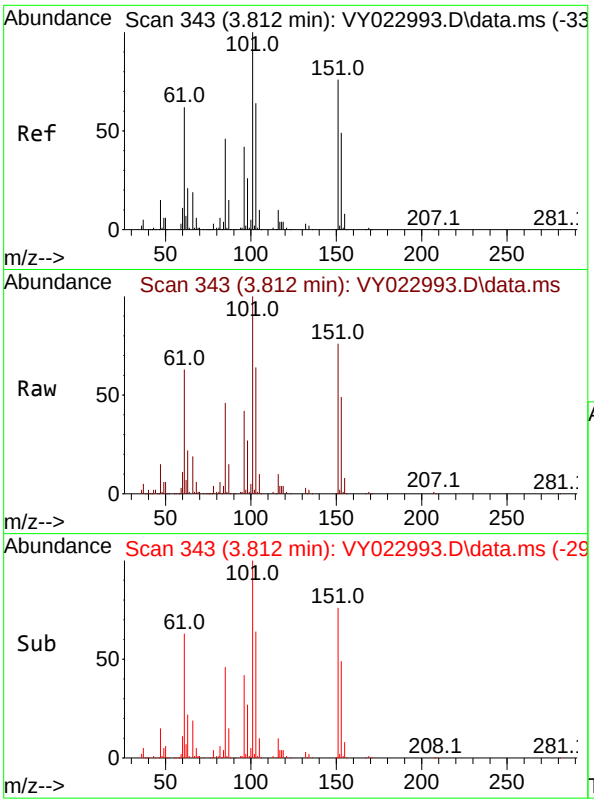


#8
Diethyl Ether
Concen: 44.685 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 74 Resp: 124617

Ion	Ratio	Lower	Upper
74	100		
45	90.1	45.1	135.2



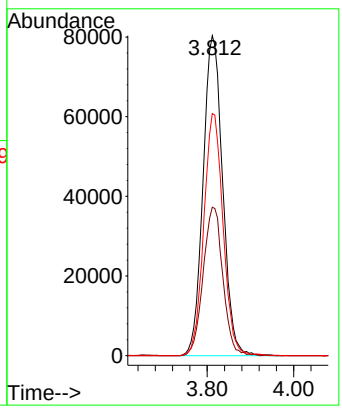


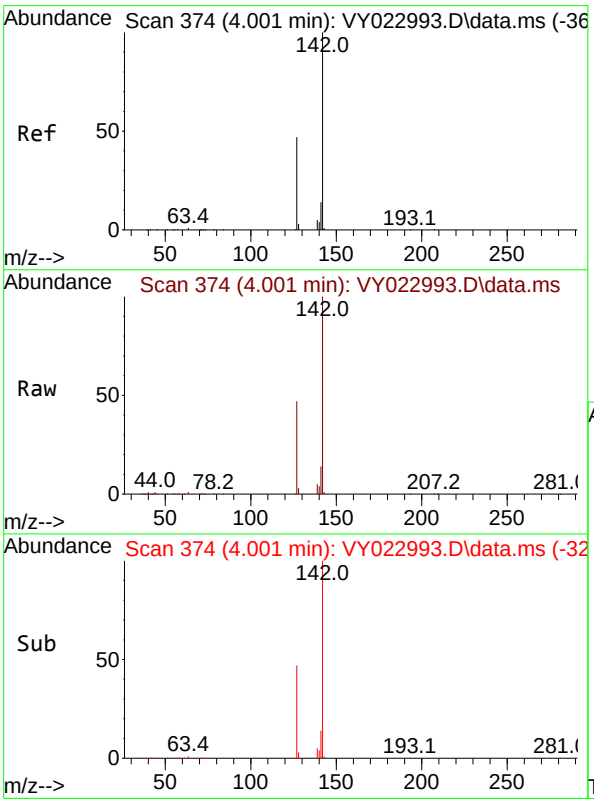
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.131 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 252620

Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.2	55.8
151	74.6	59.7	89.5

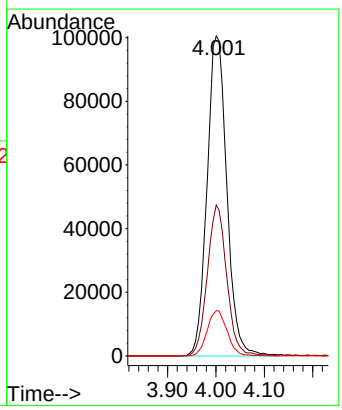


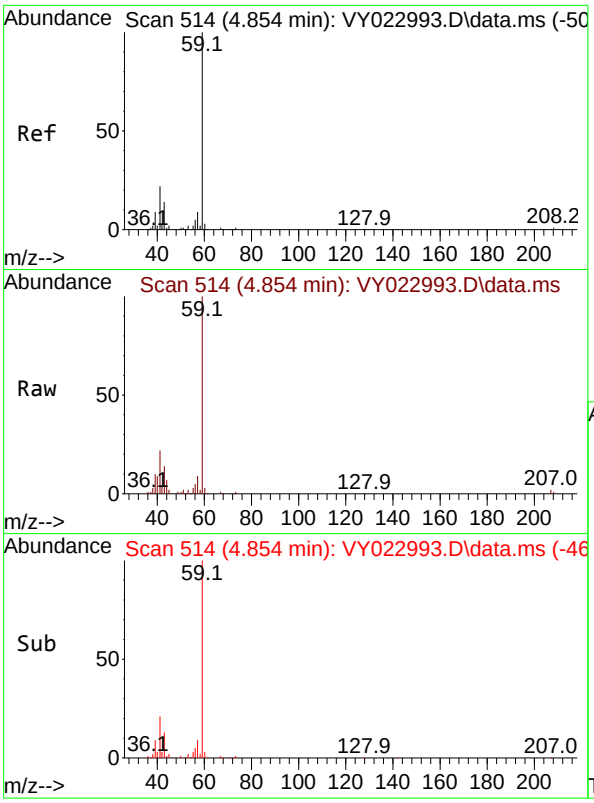


#10
Methyl Iodide
Concen: 49.138 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:142 Resp: 285736

Ion	Ratio	Lower	Upper
142	100		
127	46.3	37.0	55.6
141	14.3	11.4	17.2



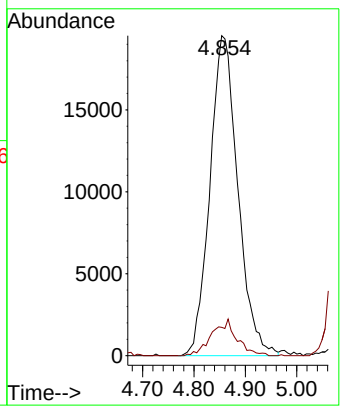


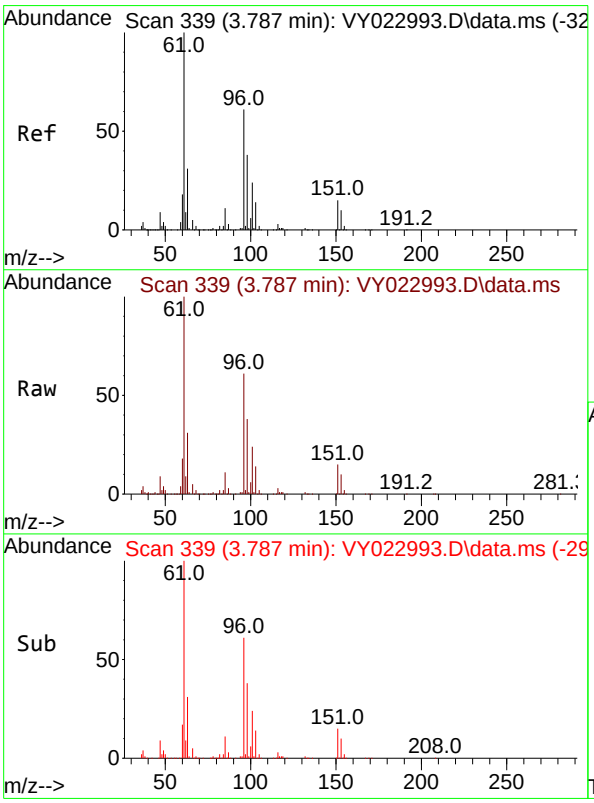
#11
Tert butyl alcohol
Concen: 238.938 ug/l
RT: 4.854 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 73810

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.2	12.2

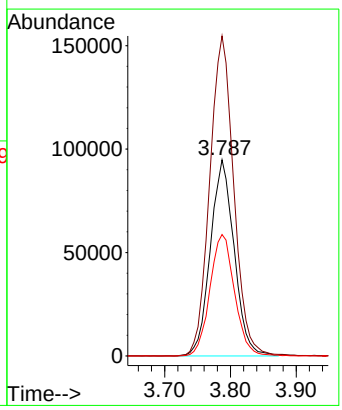


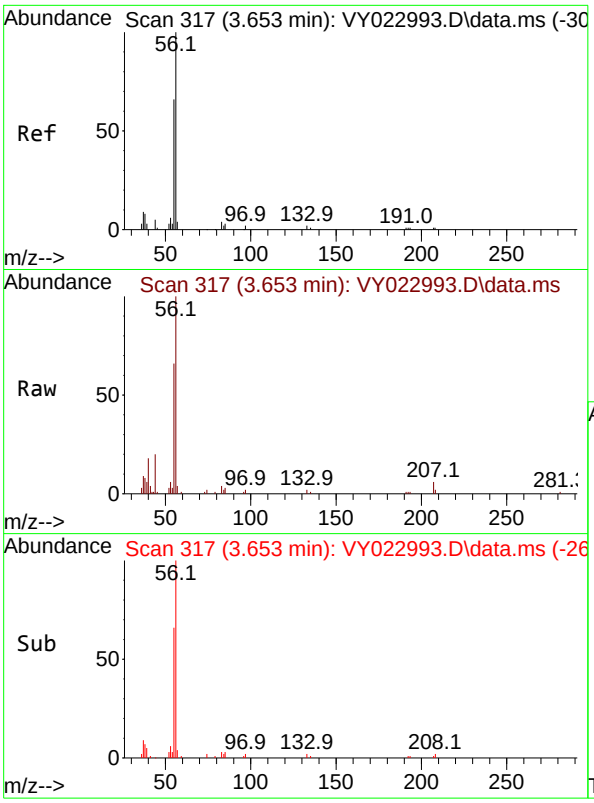


#12
1,1-Dichloroethene
Concen: 44.832 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 96 Resp: 239058

Ion	Ratio	Lower	Upper
96	100		
61	163.0	130.4	195.6
98	62.0	49.6	74.4



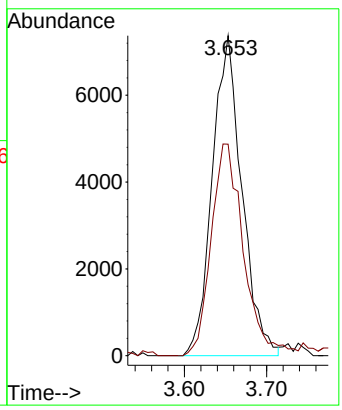


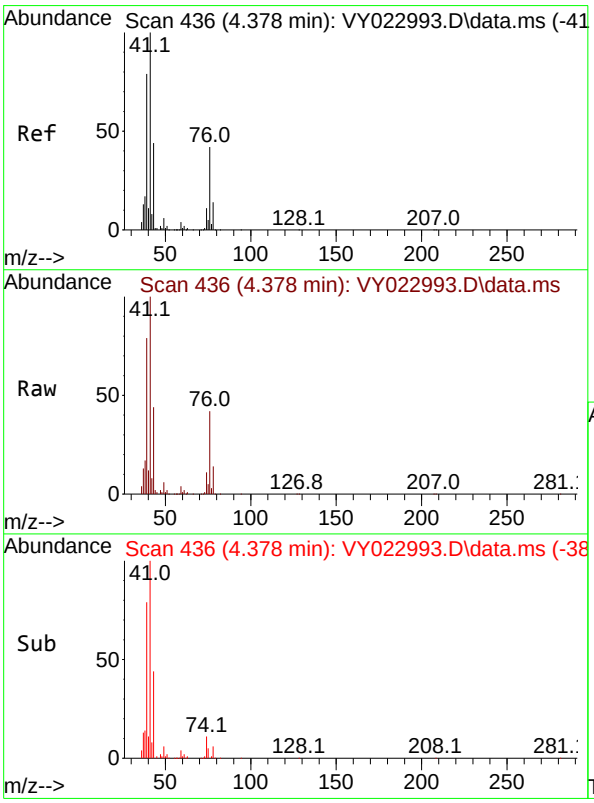
#13
Acrolein
Concen: 132.538 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 18455

Ion	Ratio	Lower	Upper
56	100		
55	72.2	57.8	86.6

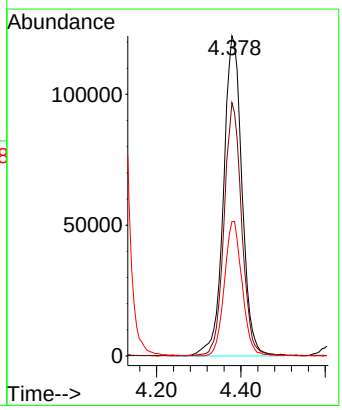


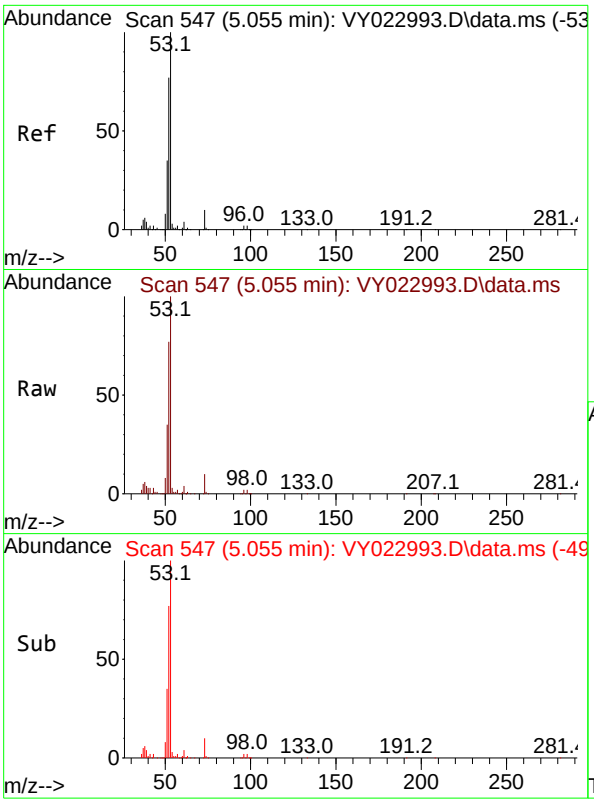


#14
Allyl chloride
Concen: 45.764 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 41 Resp: 371772

Ion	Ratio	Lower	Upper
41	100		
39	75.1	60.1	90.1
76	40.3	32.2	48.4



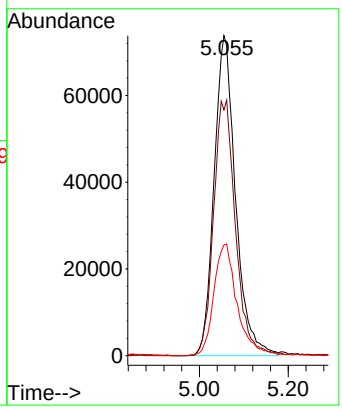


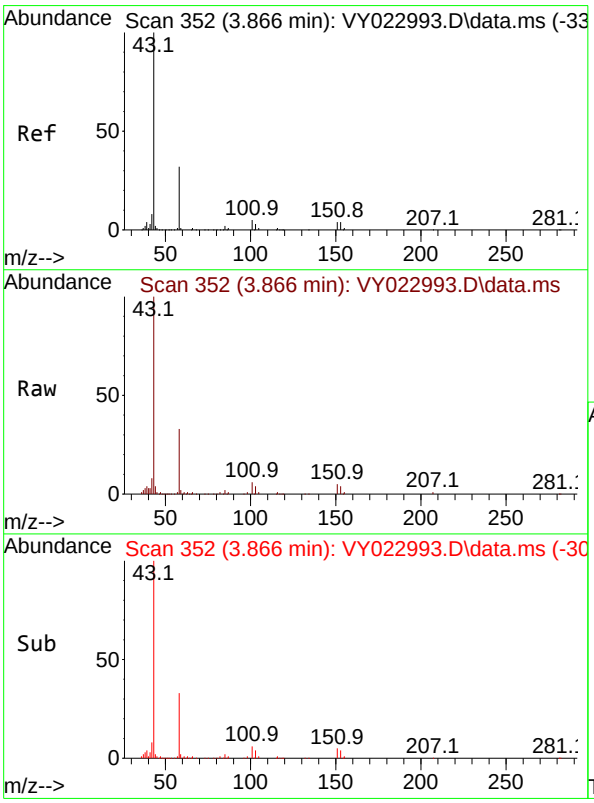
#15
Acrylonitrile
Concen: 233.921 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 247093

Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.2	97.8
51	37.9	30.3	45.5

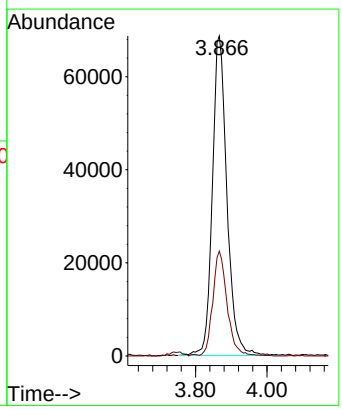


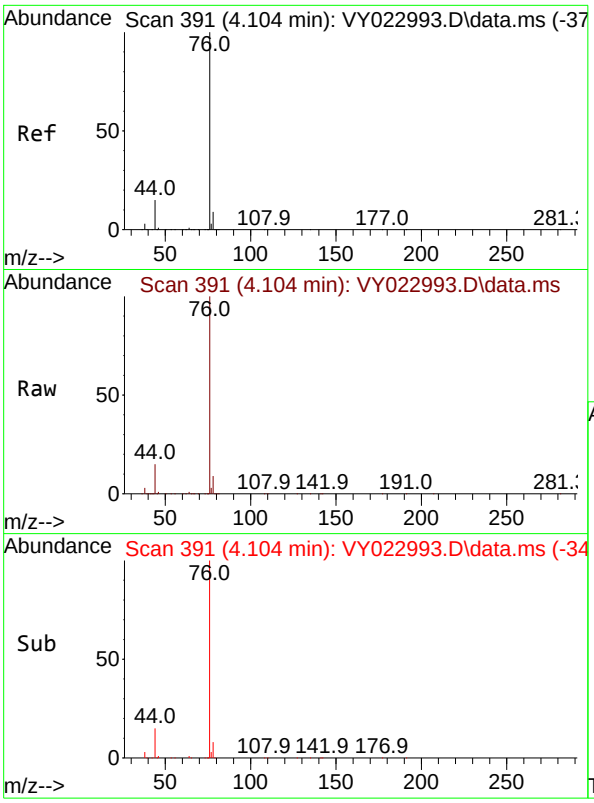


#16
Acetone
Concen: 210.847 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 194159

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.2	39.4



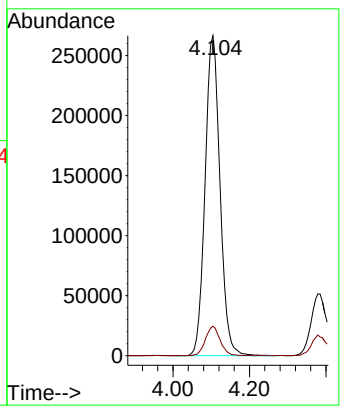


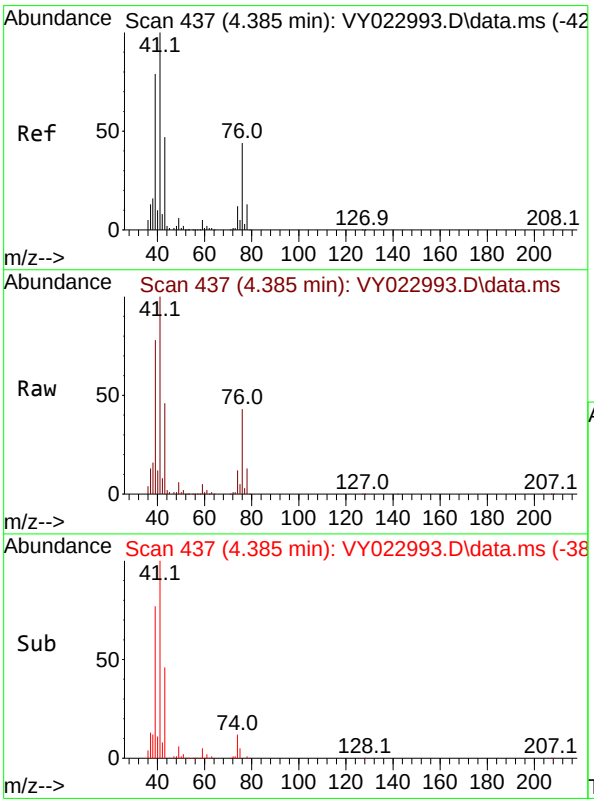
#17
Carbon Disulfide
Concen: 44.664 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 721811

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

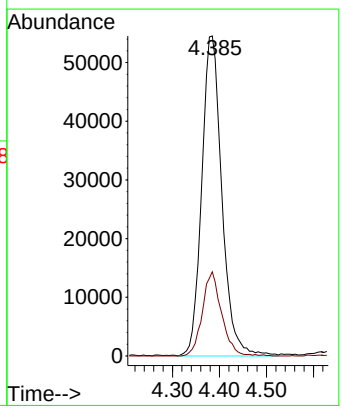


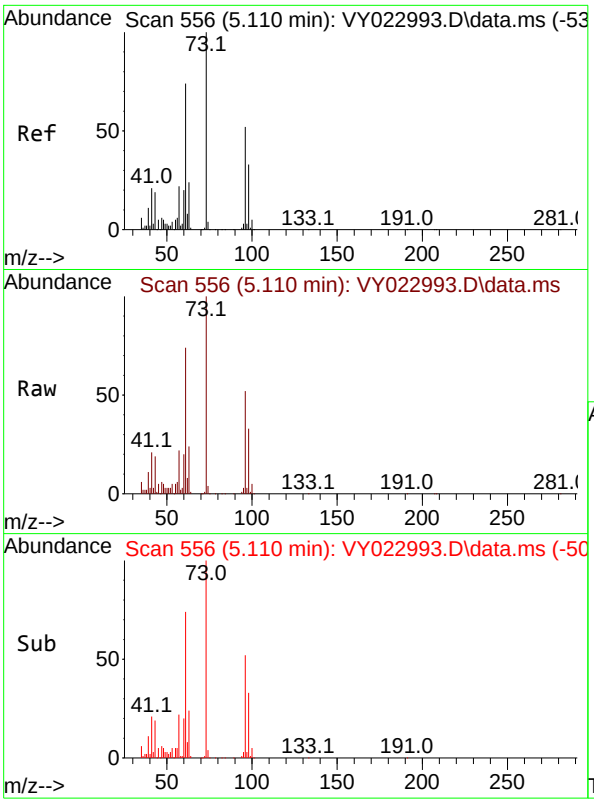


#18
Methyl Acetate
Concen: 52.045 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 162254

Ion	Ratio	Lower	Upper
43	100		
74	25.1	20.1	30.1



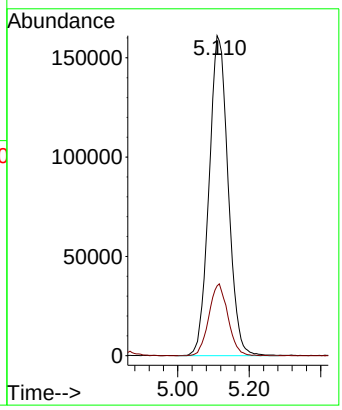


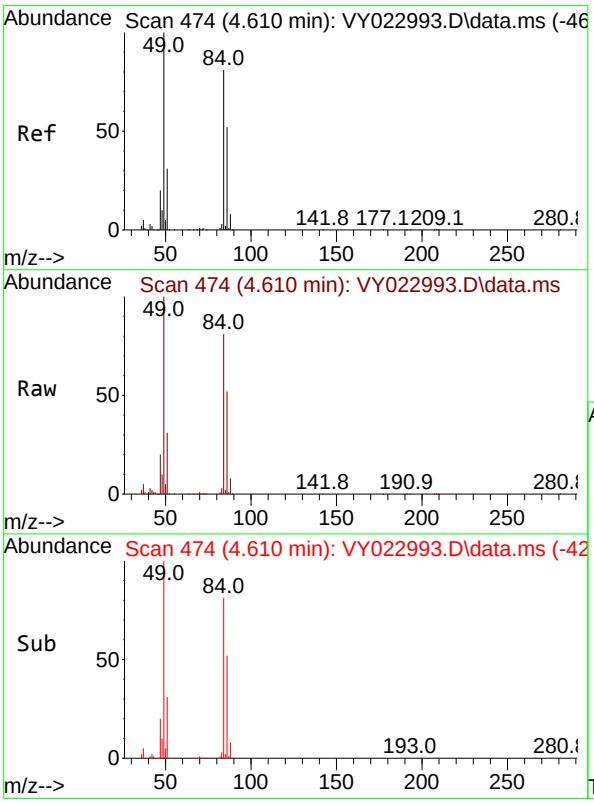
#19
Methyl tert-butyl Ether
Concen: 46.744 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 597847

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

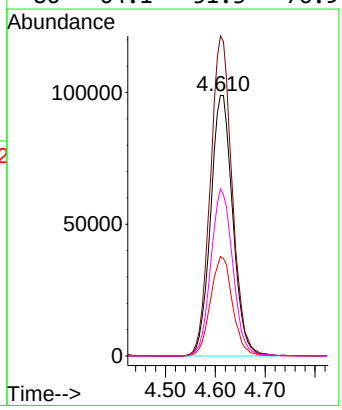


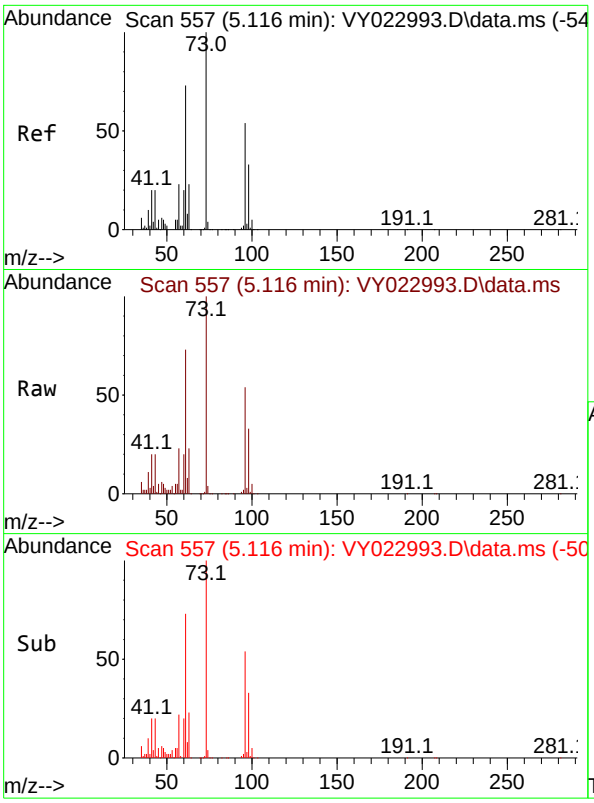


#20
Methylene Chloride
Concen: 46.415 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 84 Resp: 304504

Ion	Ratio	Lower	Upper
84	100		
49	122.8	98.2	147.4
51	38.1	30.5	45.7
86	64.1	51.3	76.9



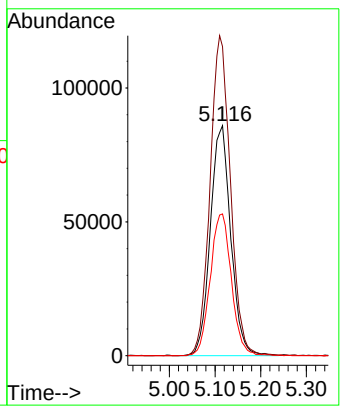


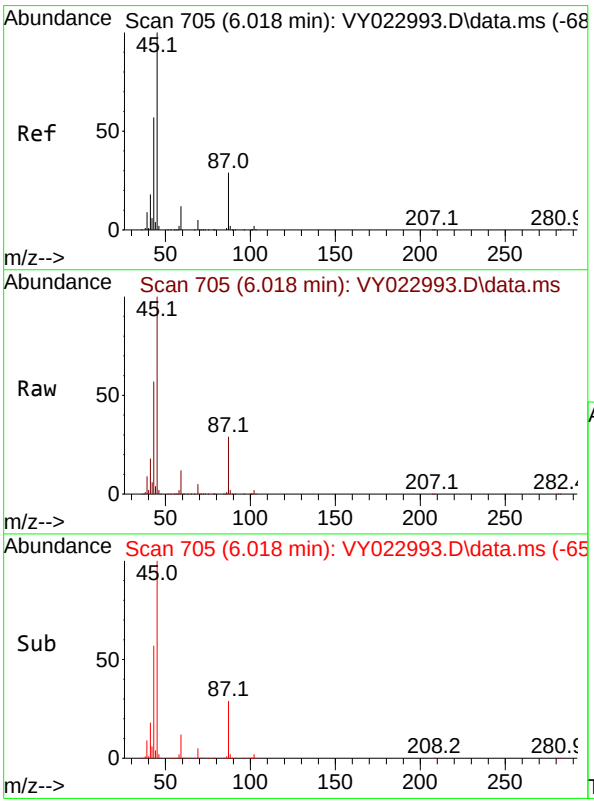
#21
trans-1,2-Dichloroethene
Concen: 45.028 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 267267

Ion	Ratio	Lower	Upper
96	100		
61	134.3	107.4	161.2
98	61.6	49.3	73.9

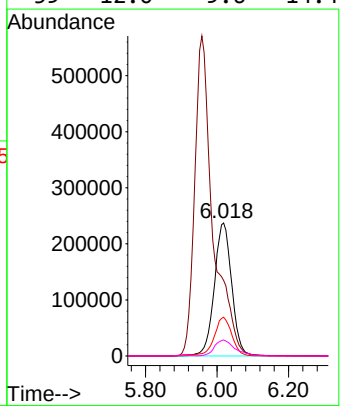


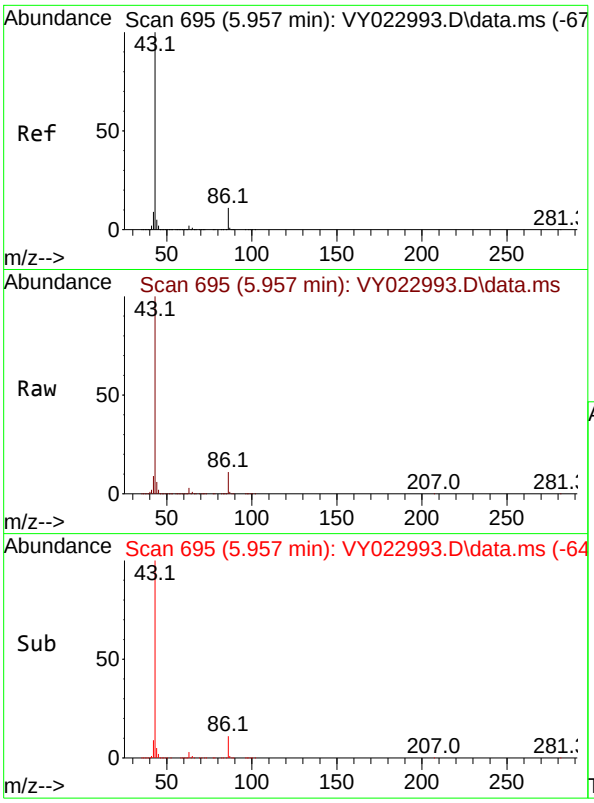


#22
Diisopropyl ether
Concen: 46.434 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 45 Resp: 800264

Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.3	67.9
87	29.1	23.3	34.9
59	12.0	9.6	14.4



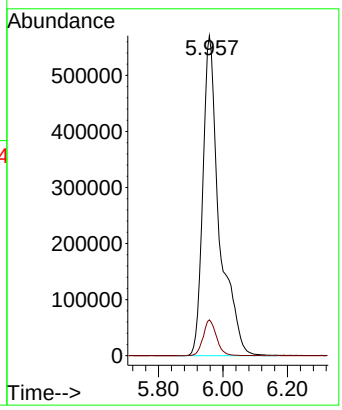


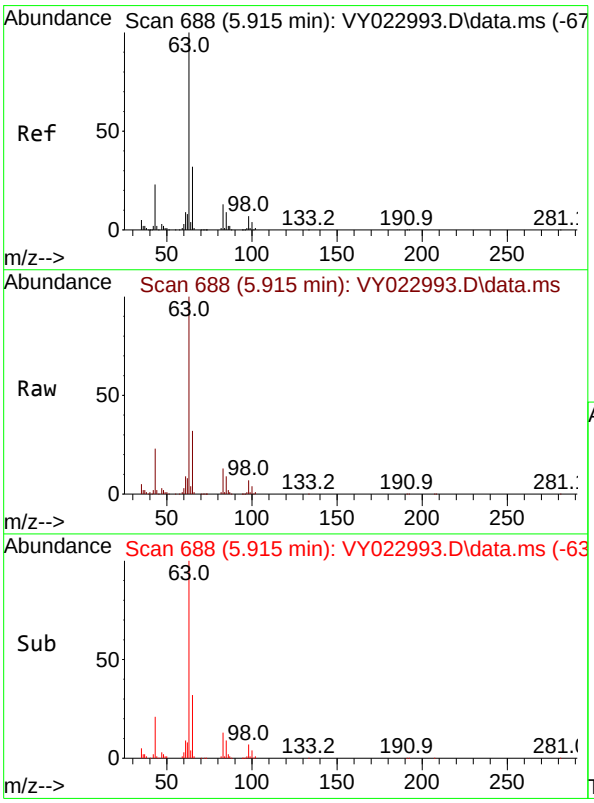
#23
Vinyl Acetate
Concen: 233.221 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2025238

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.0	13.4

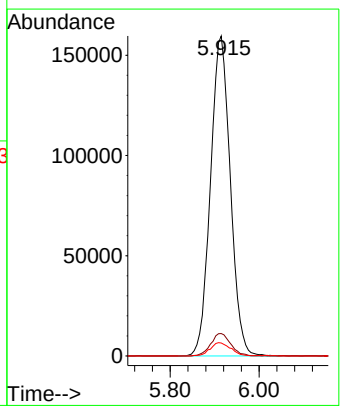


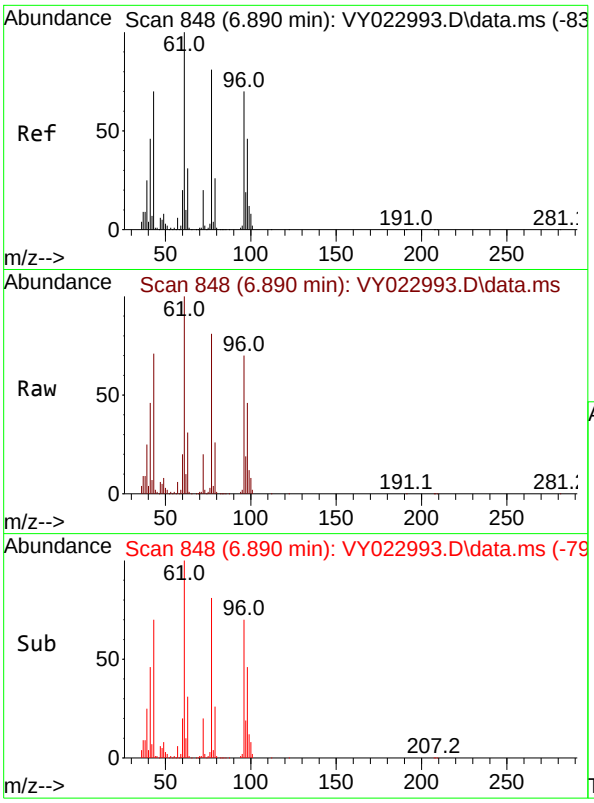


#24
1,1-Dichloroethane
Concen: 45.718 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 63 Resp: 494896

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.1	2.1	6.2



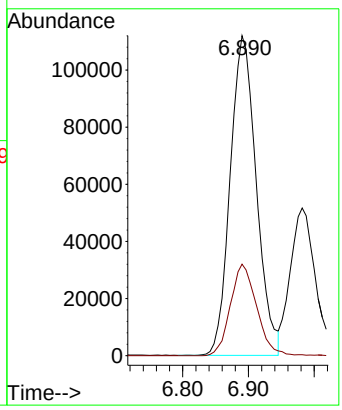


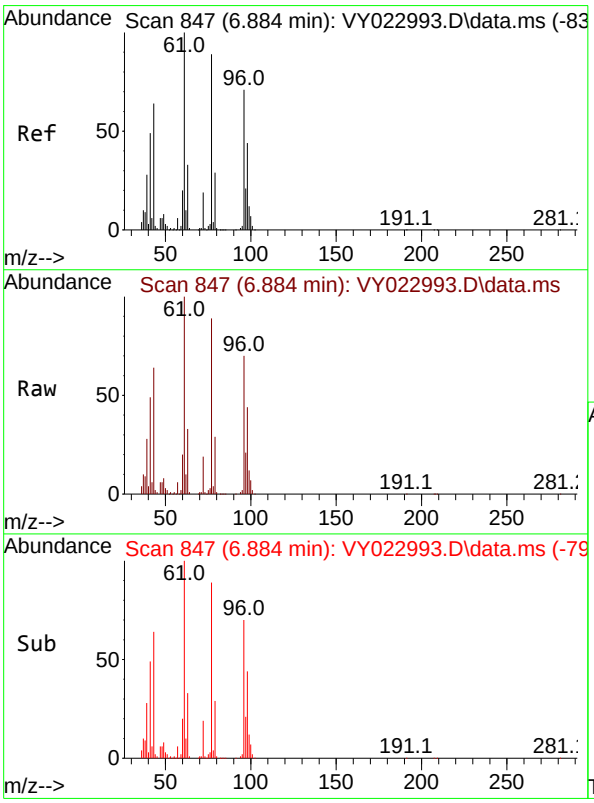
#25
2-Butanone
Concen: 233.963 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 309076

Ion	Ratio	Lower	Upper
43	100		
72	28.6	22.9	34.3

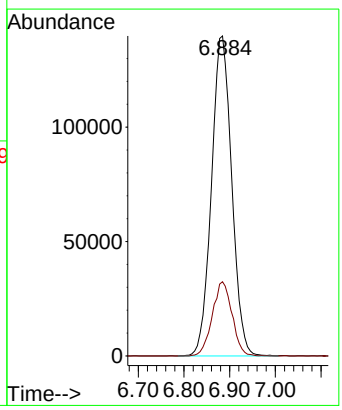


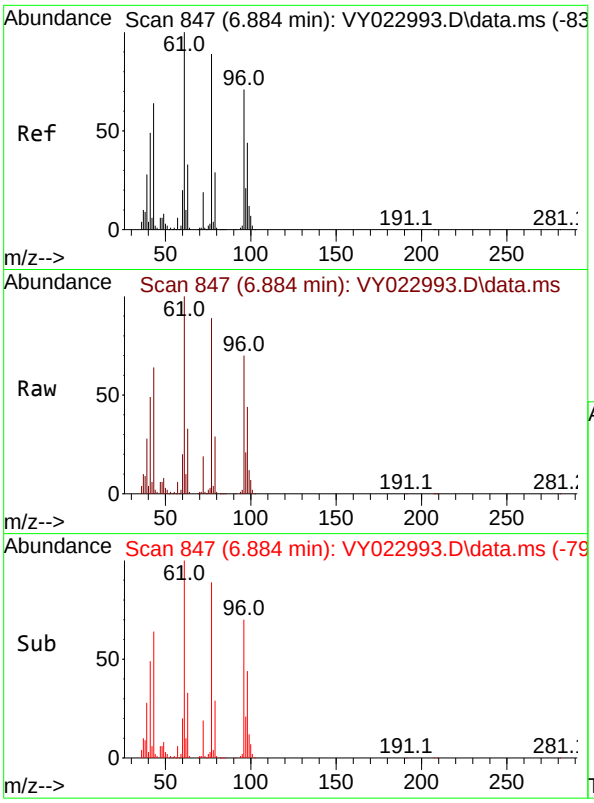


#26
2,2-Dichloropropane
Concen: 45.386 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 77 Resp: 430578

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.3	33.9



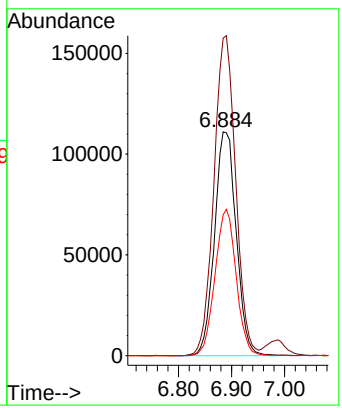


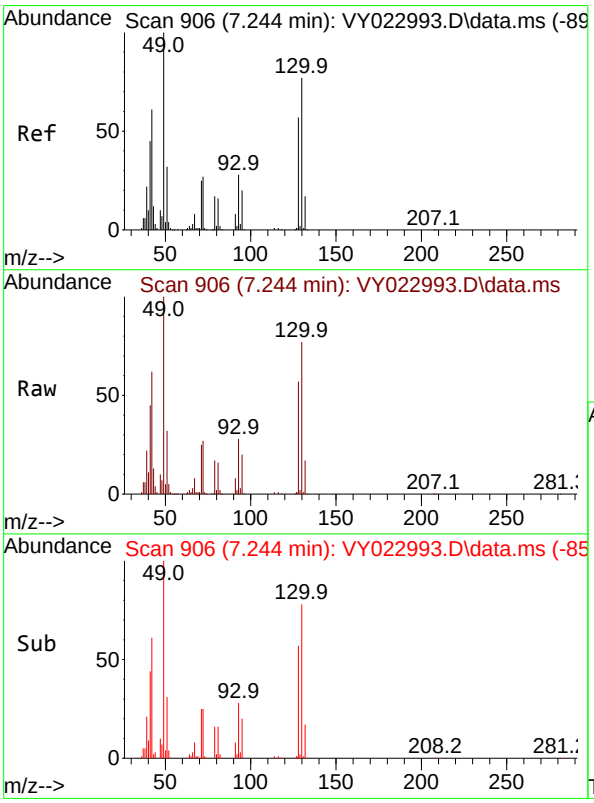
#27
cis-1,2-Dichloroethene
Concen: 46.253 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 316409

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	286.2
98	63.7	0.0	127.4

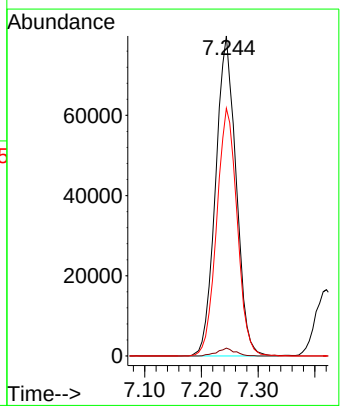


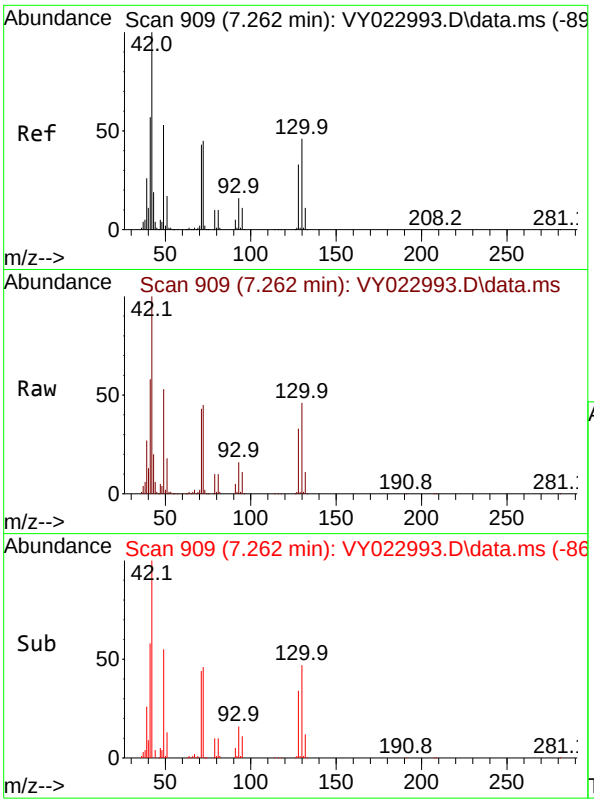


#28
Bromochloromethane
Concen: 47.598 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 49 Resp: 199840

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	77.3	61.8	92.8



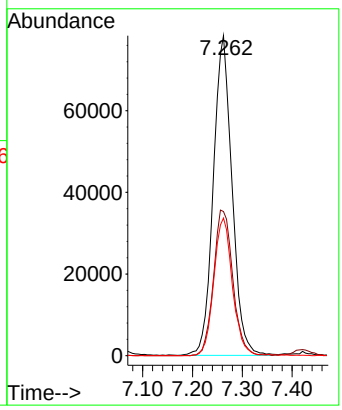


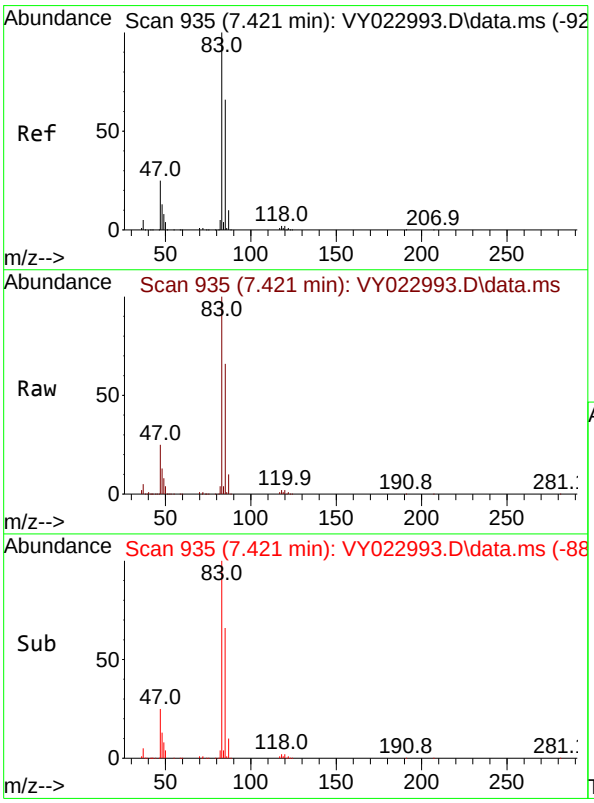
#29
Tetrahydrofuran
Concen: 244.270 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 204304

Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.5	56.3
71	42.8	34.2	51.4

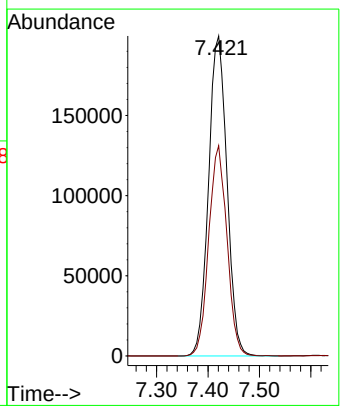


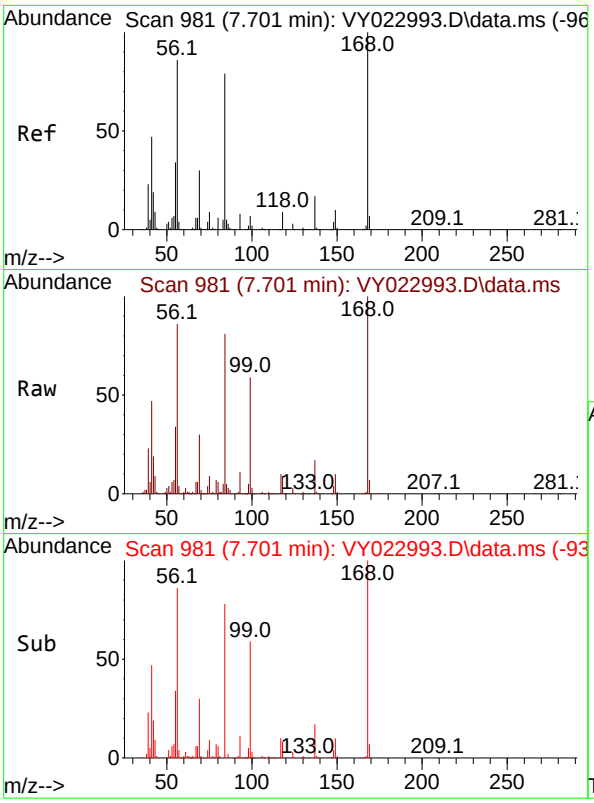


#30
Chloroform
Concen: 45.518 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 83 Resp: 497058

Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.6	78.8



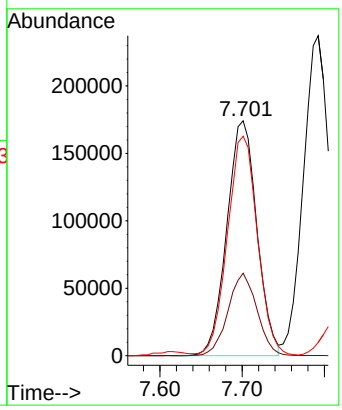


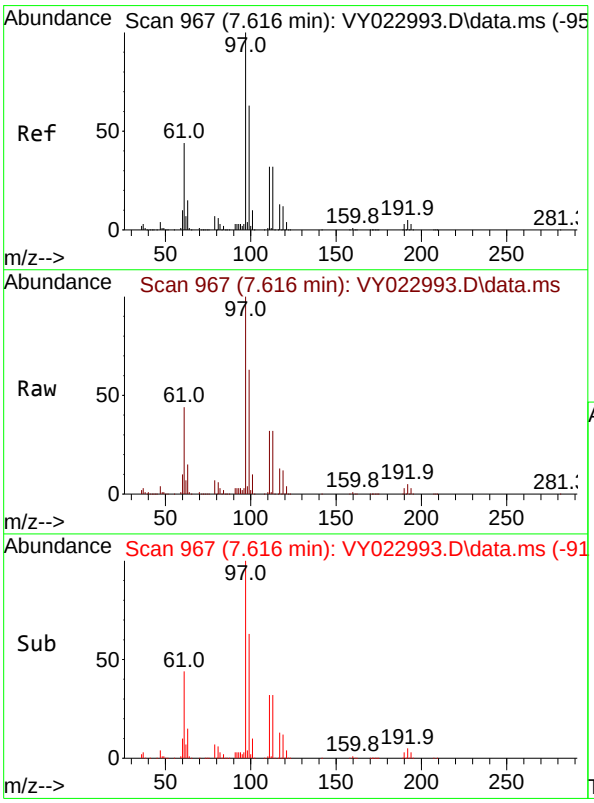
#31
Cyclohexane
Concen: 43.650 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 441500

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.1	42.1
84	91.9	73.5	110.3

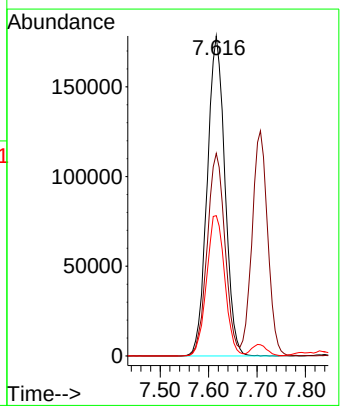


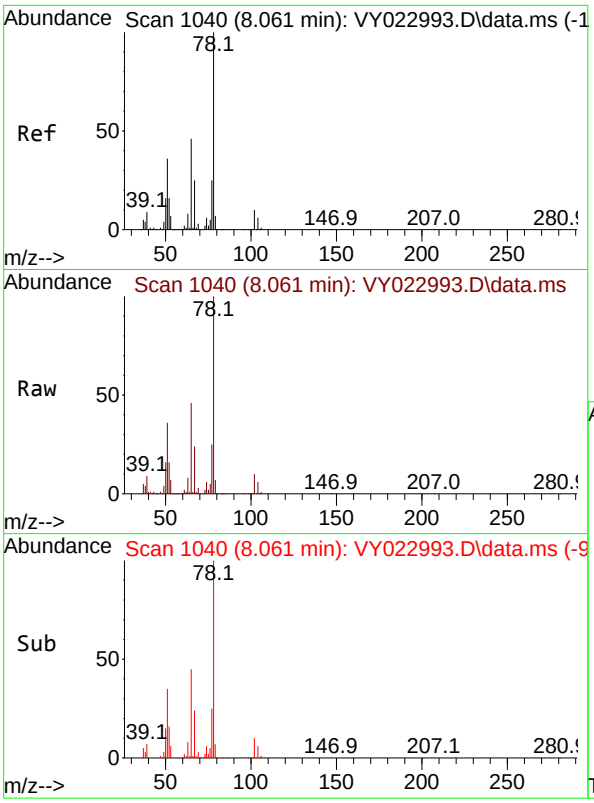


#32
1,1,1-Trichloroethane
Concen: 45.738 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 97 Resp: 453173

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	45.1	36.1	54.1



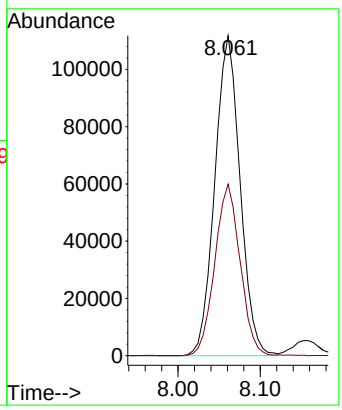


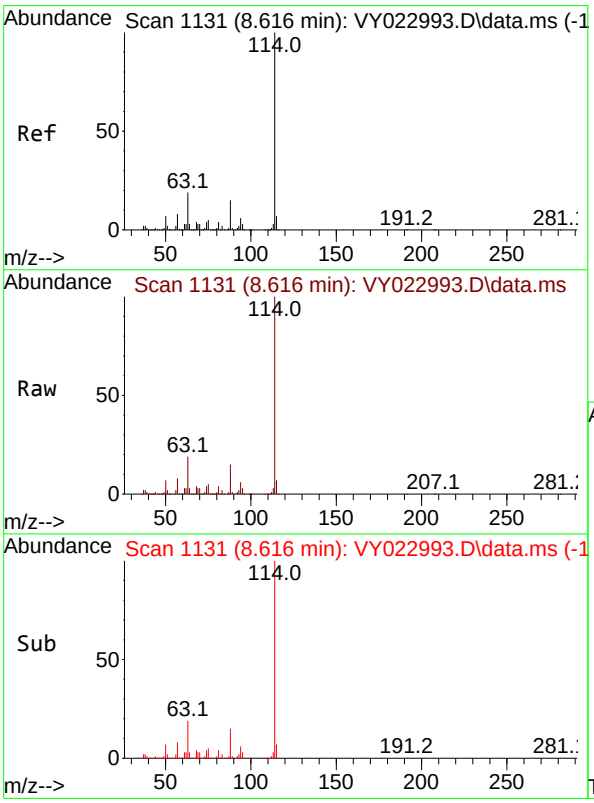
#33
1,2-Dichloroethane-d4
Concen: 47.050 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 239014

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.4

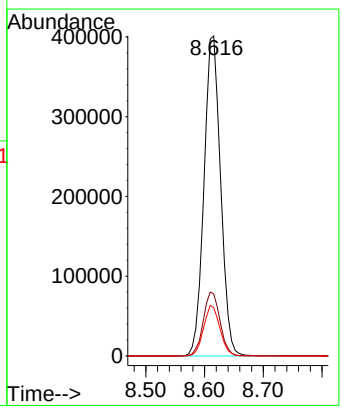


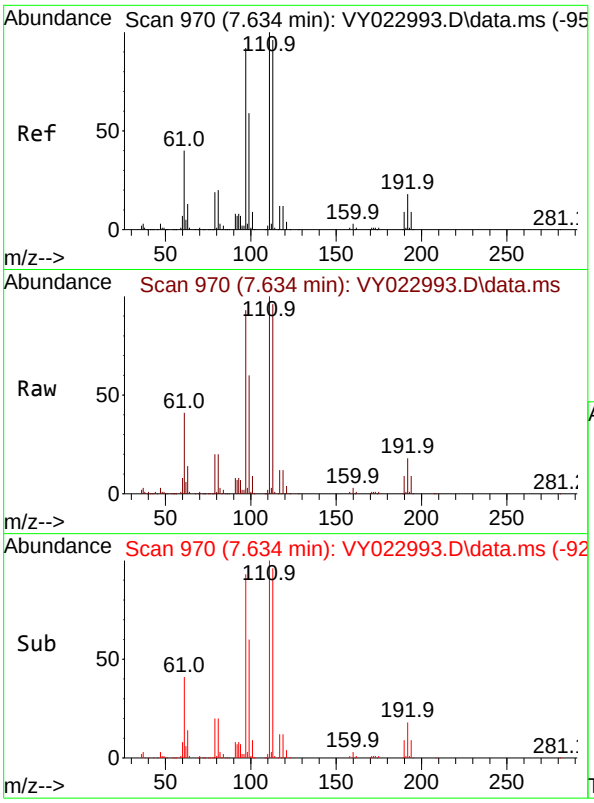


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:114 Resp: 789191

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.8
88	15.1	0.0	30.2



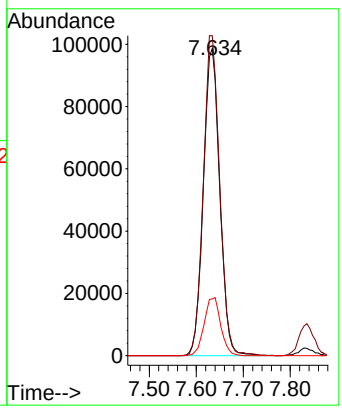


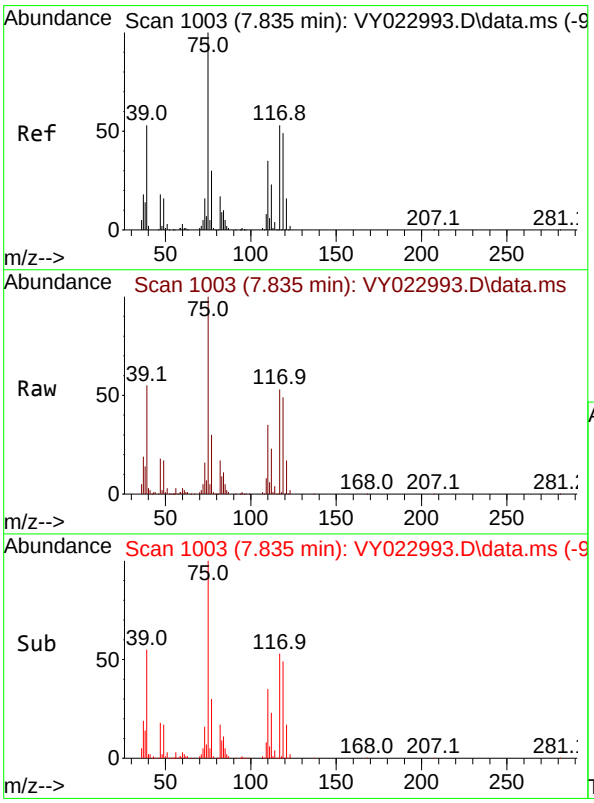
#35
Dibromofluoromethane
Concen: 47.590 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 238242

Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.2	124.8
192	19.1	15.3	22.9

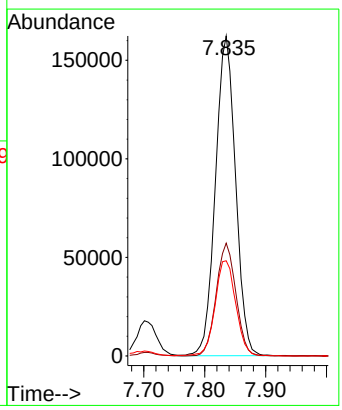


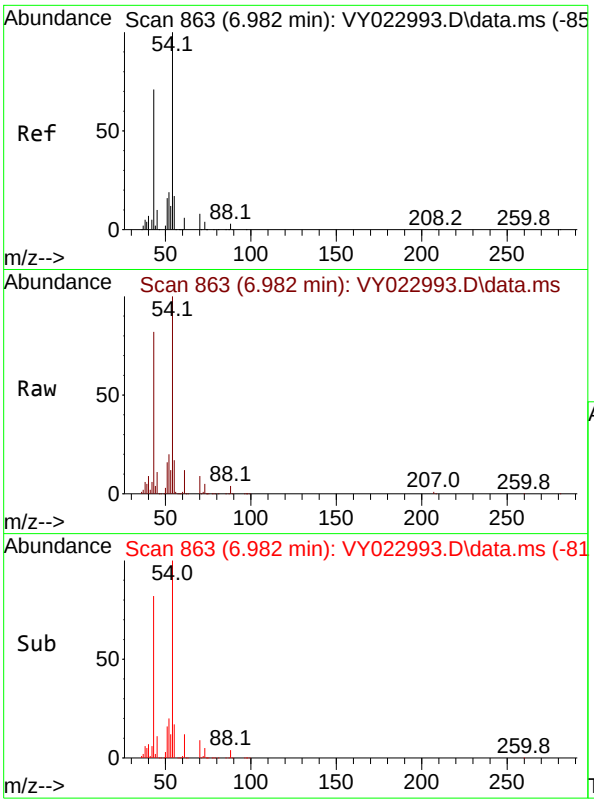


#36
1,1-Dichloropropene
Concen: 47.196 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 372166

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	30.8	24.6	37.0



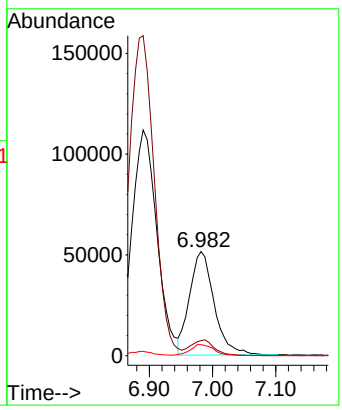


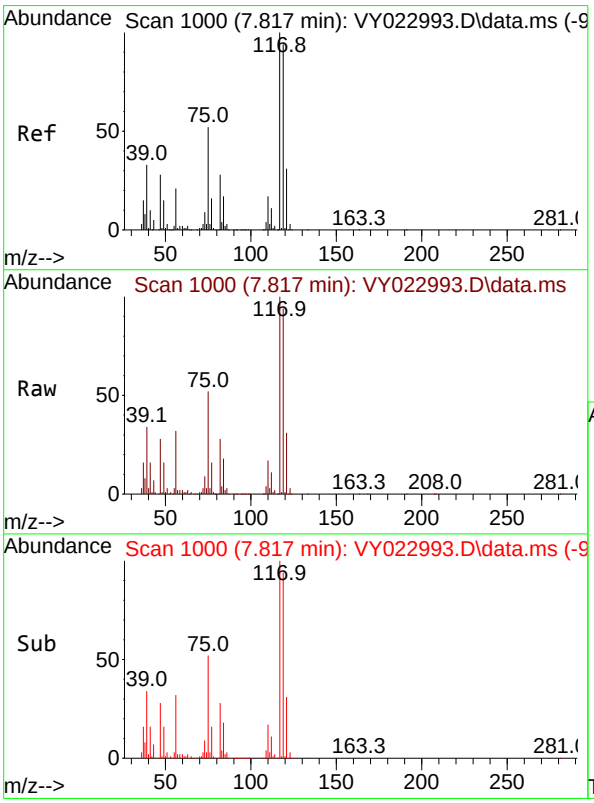
#37
Ethyl Acetate
Concen: 47.445 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 138948

Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	10.6	8.5	12.7

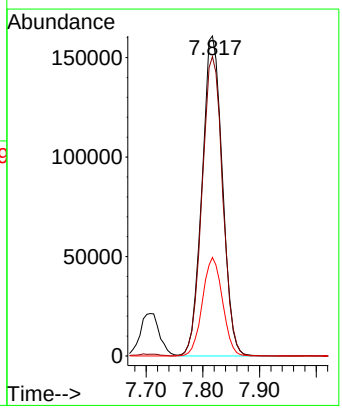


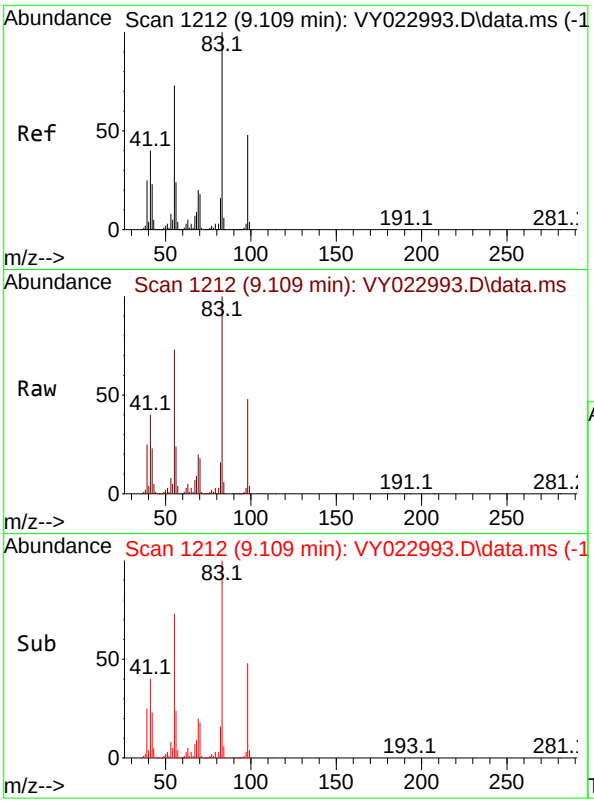


#38
Carbon Tetrachloride
Concen: 46.760 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:117 Resp: 400589

Ion	Ratio	Lower	Upper
117	100		
119	93.6	74.9	112.3
121	30.8	24.6	37.0



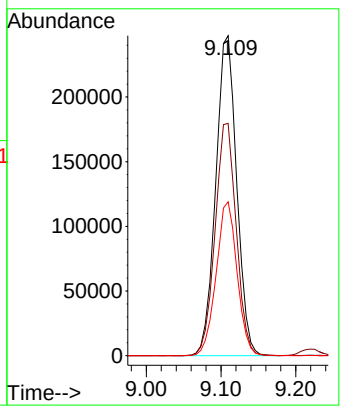


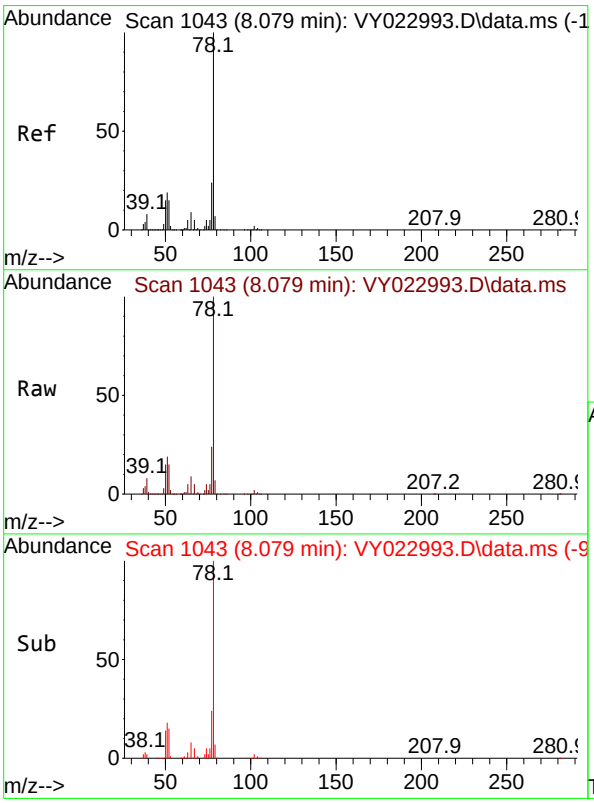
#39
Methylcyclohexane
Concen: 47.256 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 482312

Ion	Ratio	Lower	Upper
83	100		
55	72.6	58.1	87.1
98	48.1	38.5	57.7

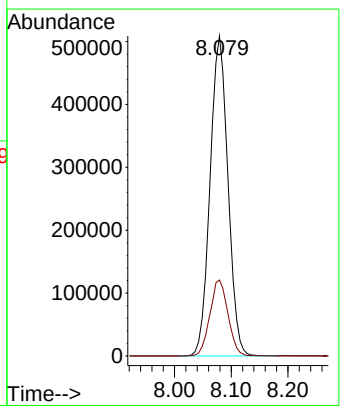


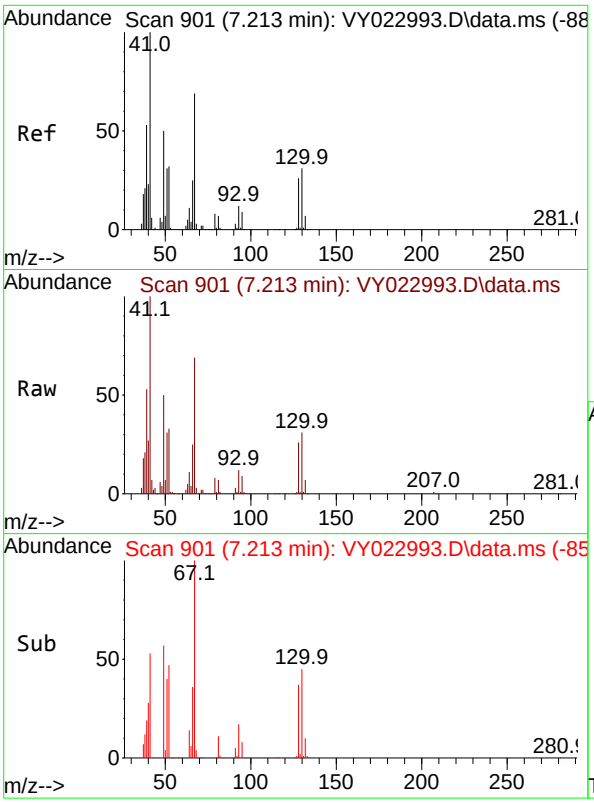


#40
Benzene
Concen: 46.911 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 78 Resp: 1113790

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4



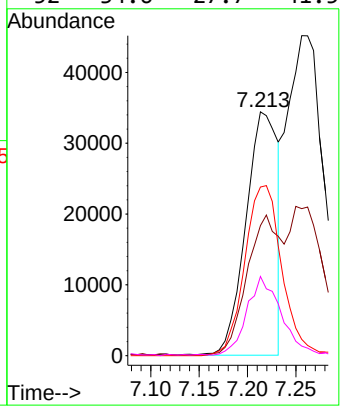


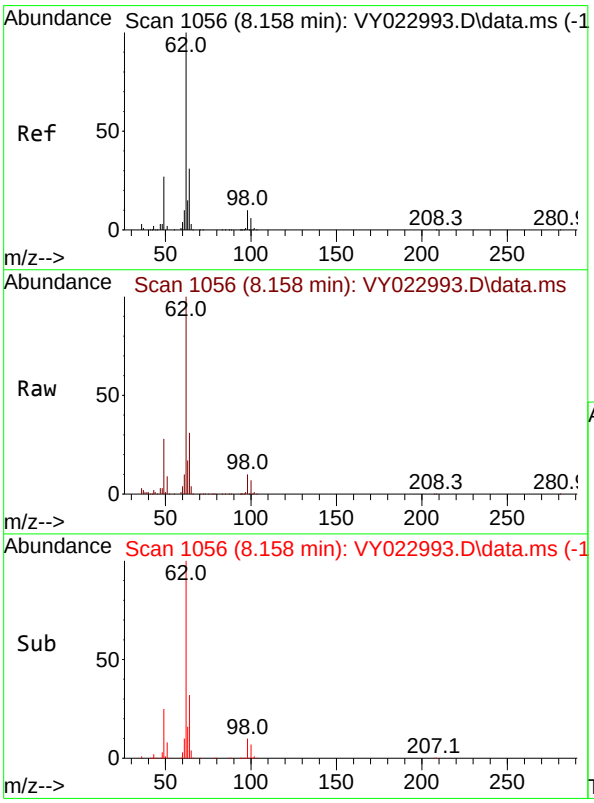
#41
Methacrylonitrile
Concen: 50.913 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 78701

Ion	Ratio	Lower	Upper
41	100		
39	62.5	50.0	75.0
67	81.8	65.4	98.2
52	34.6	27.7	41.5

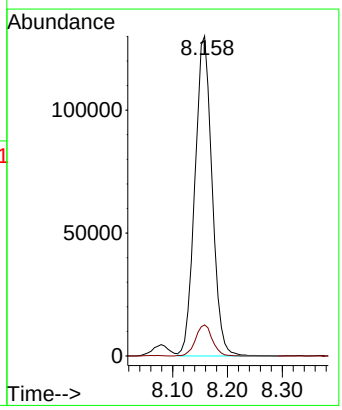


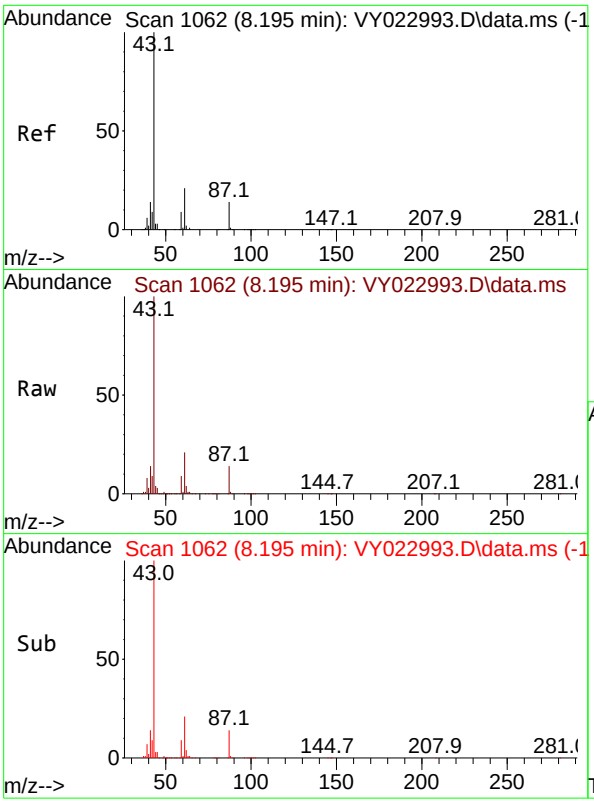


#42
1,2-Dichloroethane
Concen: 47.867 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 62 Resp: 282749

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0



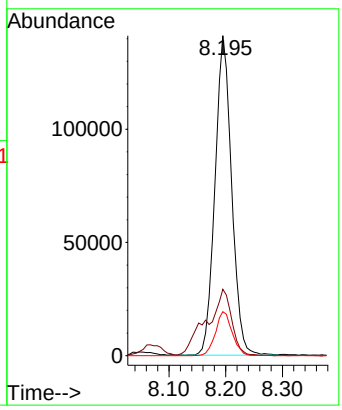


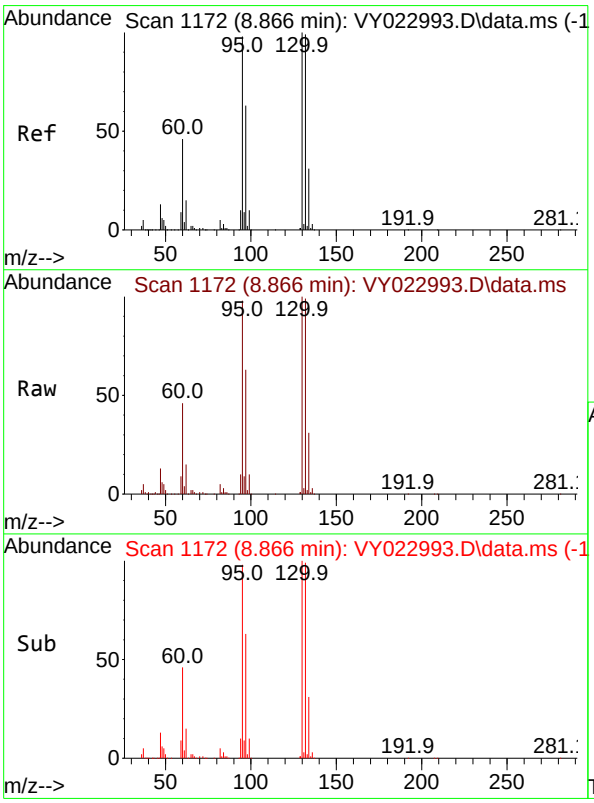
#43
Isopropyl Acetate
Concen: 49.524 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 288097

Ion	Ratio	Lower	Upper
43	100		
61	31.2	25.0	37.4
87	13.9	11.1	16.7

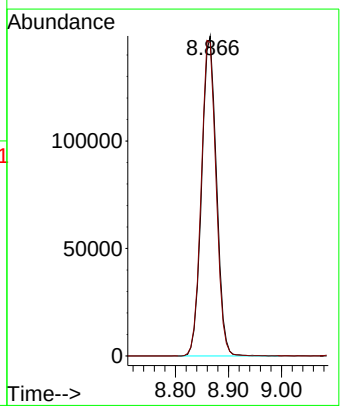


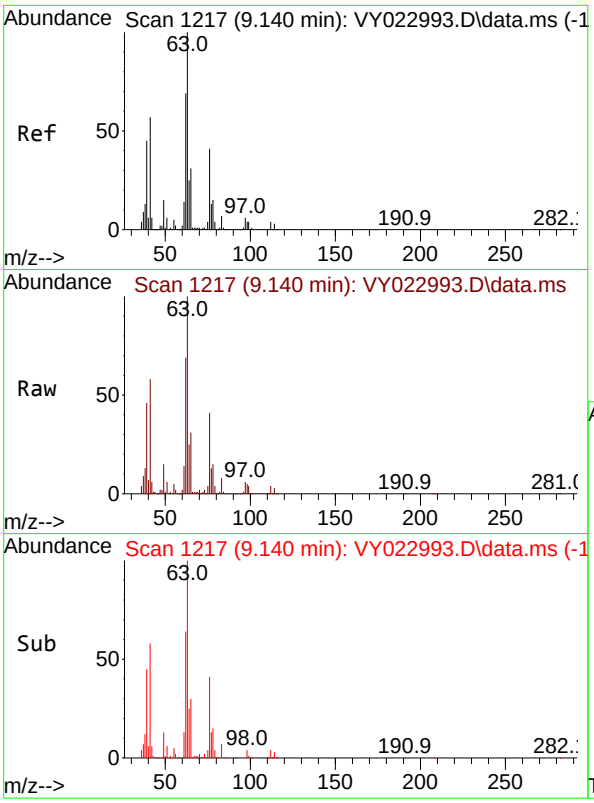


#44
Trichloroethene
Concen: 47.253 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:130 Resp: 288157

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	195.8



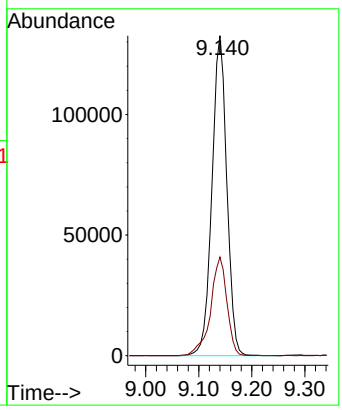


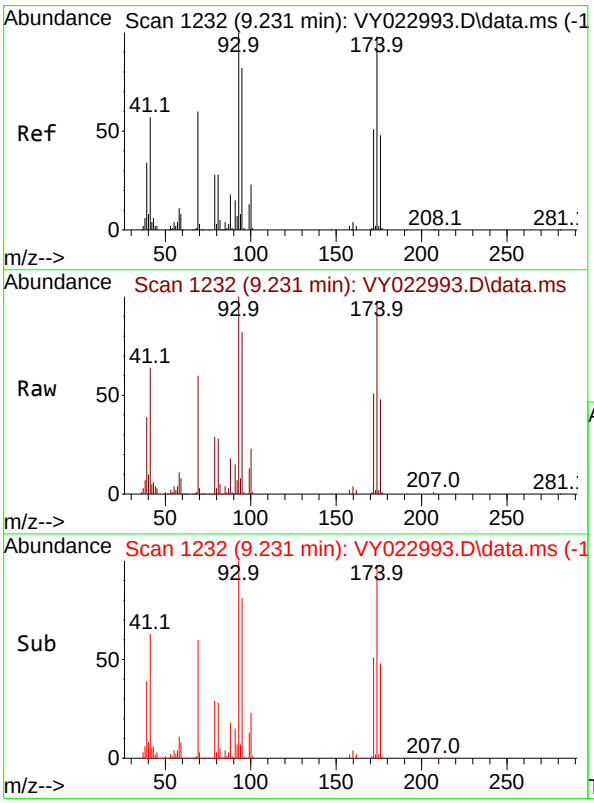
#45
1,2-Dichloropropane
Concen: 46.536 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 258018

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

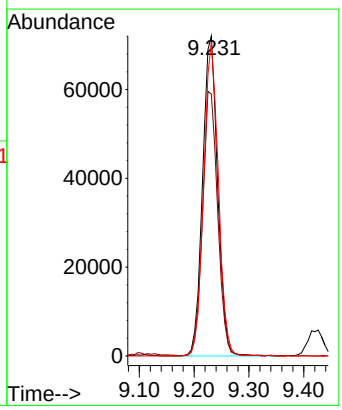


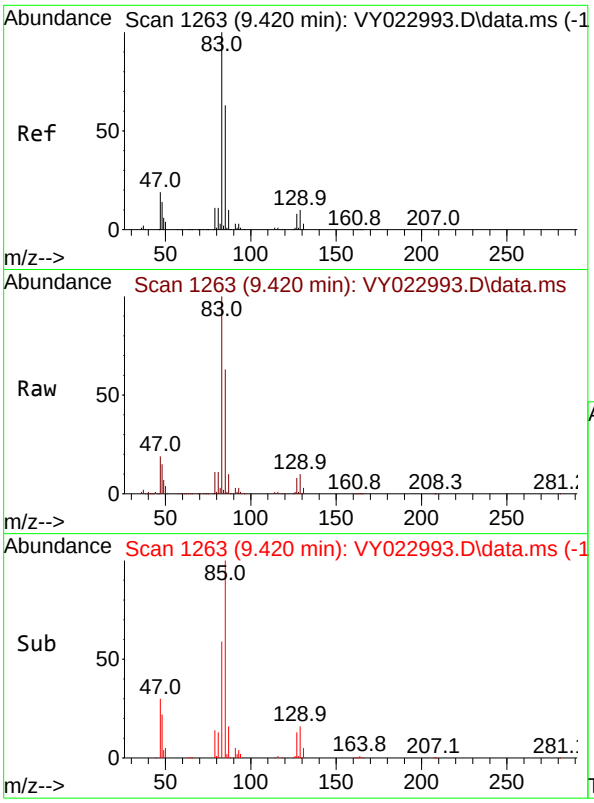


#46
Dibromomethane
Concen: 47.840 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 93 Resp: 137104

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.9	98.9
174	95.5	76.4	114.6



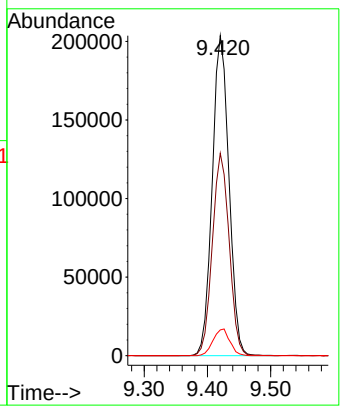


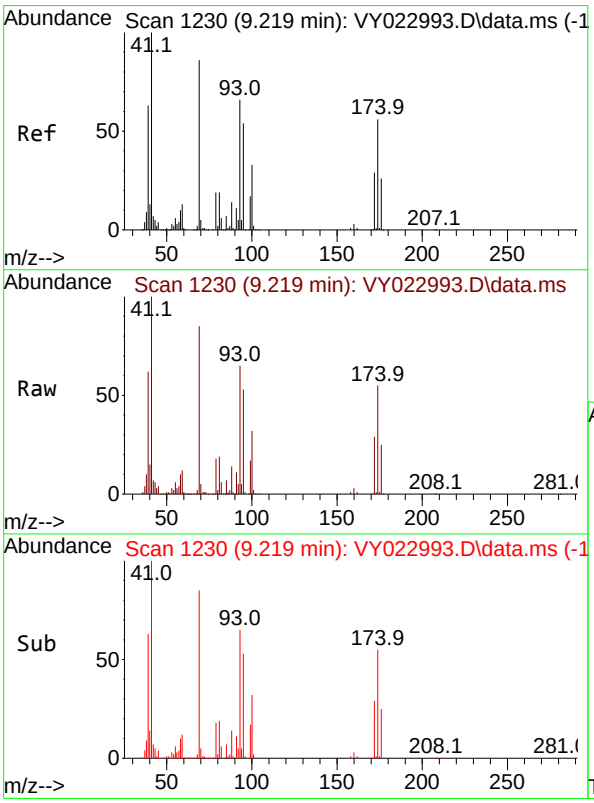
#47
Bromodichloromethane
Concen: 47.086 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 373011

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.1	6.5	9.7

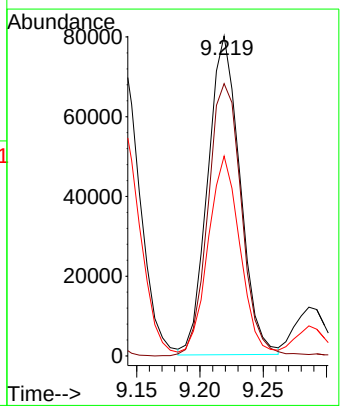


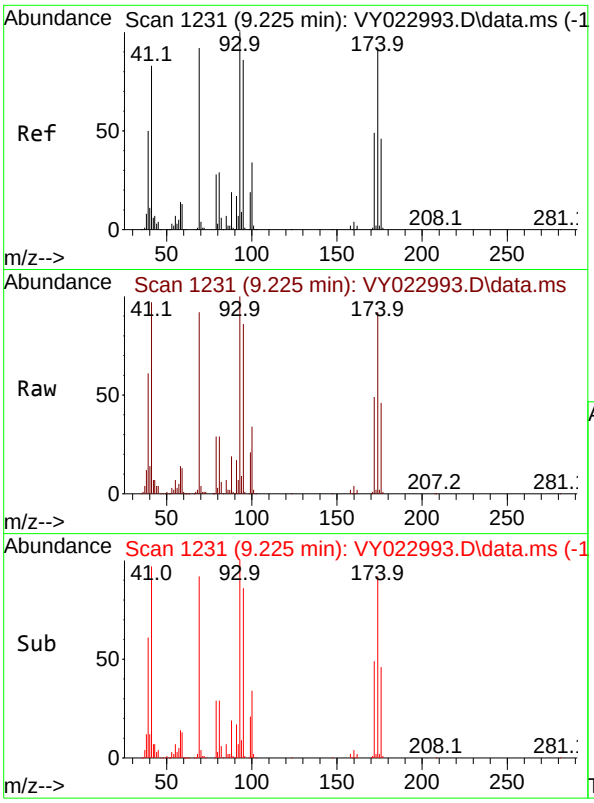


#48
Methyl methacrylate
Concen: 50.507 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 41 Resp: 141851

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	59.8	47.8	71.8



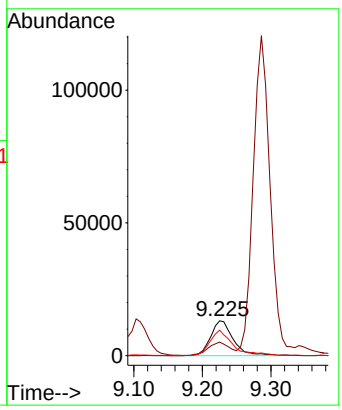


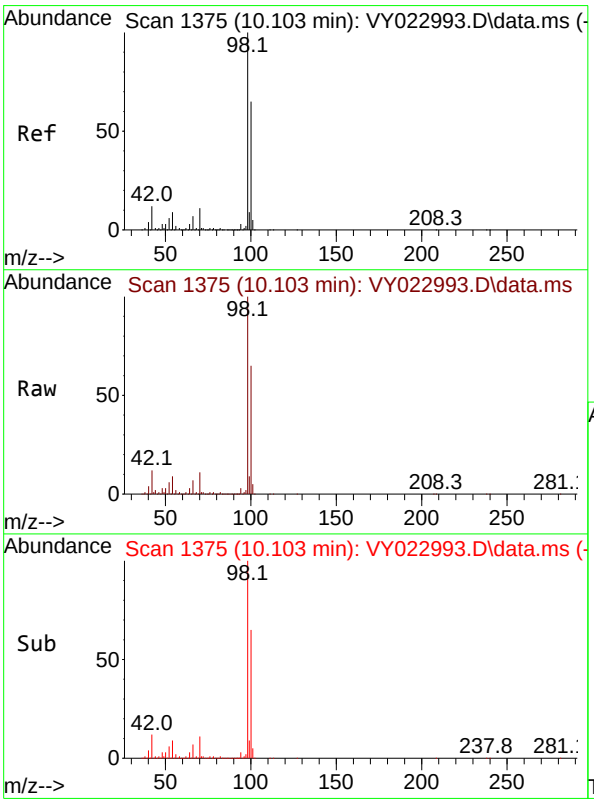
#49
1,4-Dioxane
Concen: 993.216 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 30004

Ion	Ratio	Lower	Upper
88	100		
43	35.9	28.7	43.1
58	74.7	59.8	89.6

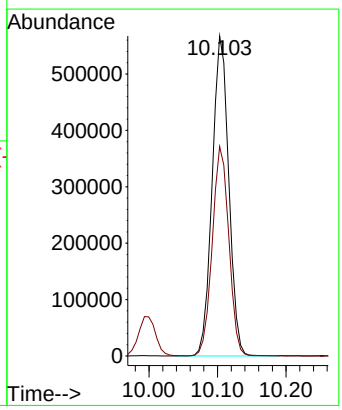


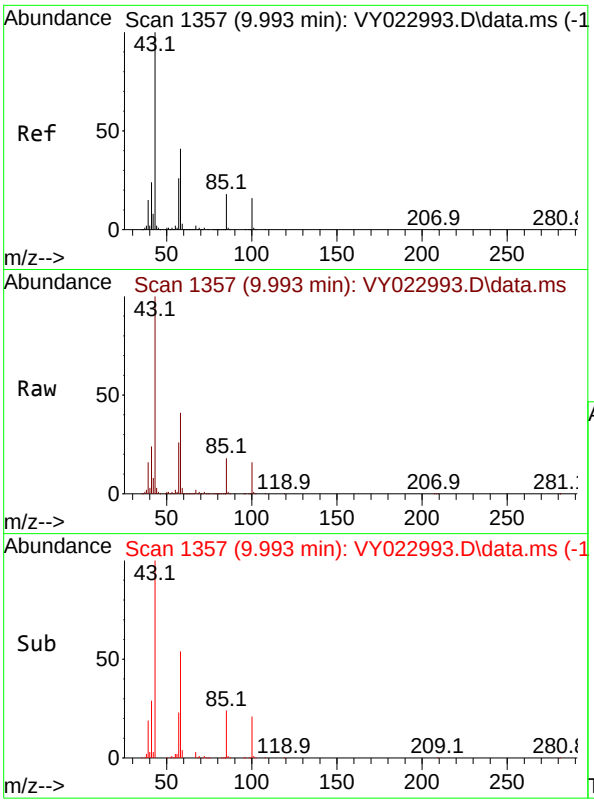


#50
Toluene-d8
Concen: 47.886 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 98 Resp: 950656

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2



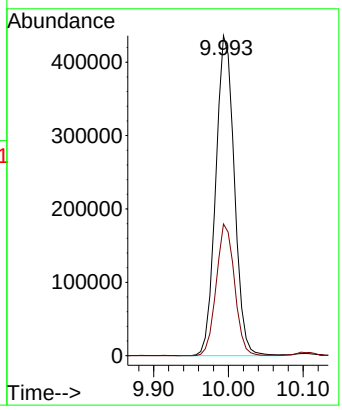


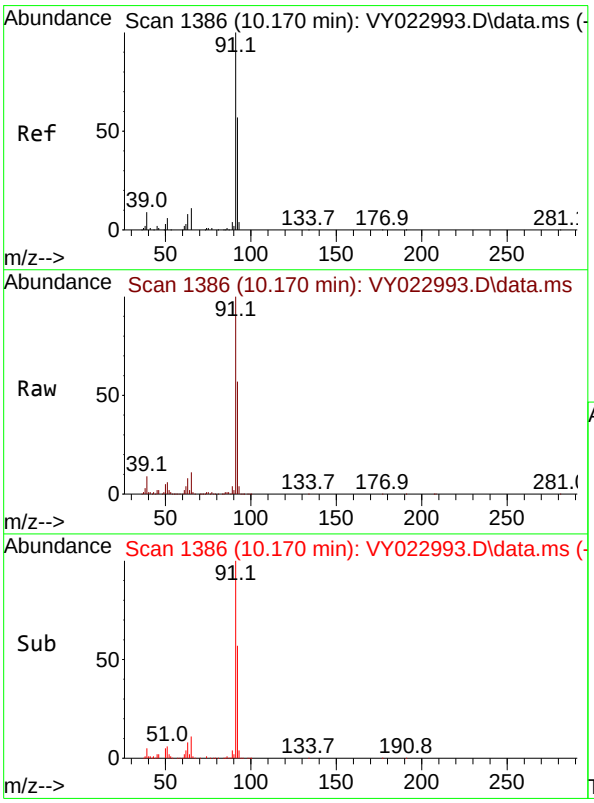
#51
4-Methyl-2-Pentanone
Concen: 255.467 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 754317

Ion	Ratio	Lower	Upper
43	100		
58	40.6	32.5	48.7

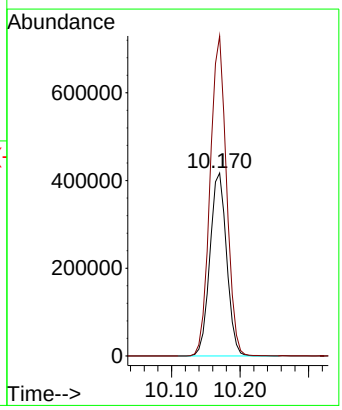


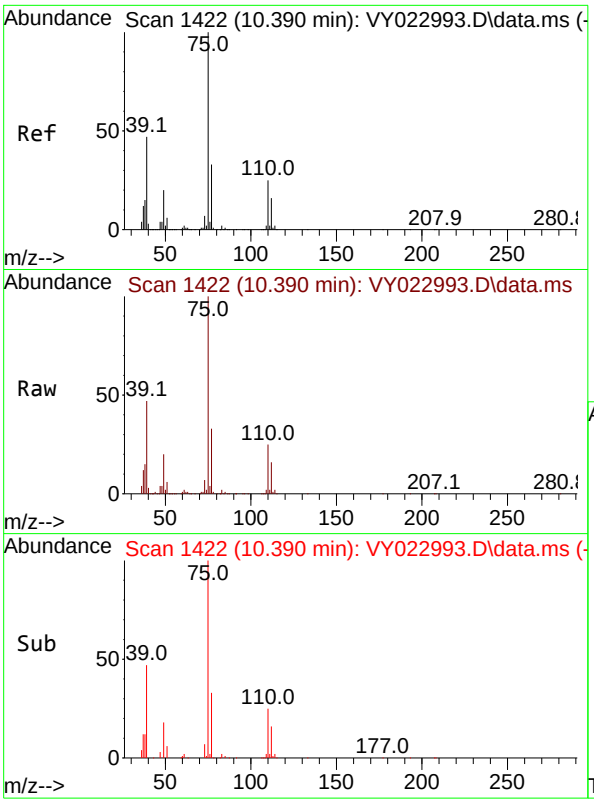


#52
Toluene
Concen: 47.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 92 Resp: 703655

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.8	206.6



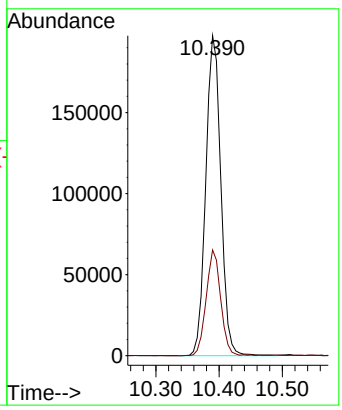


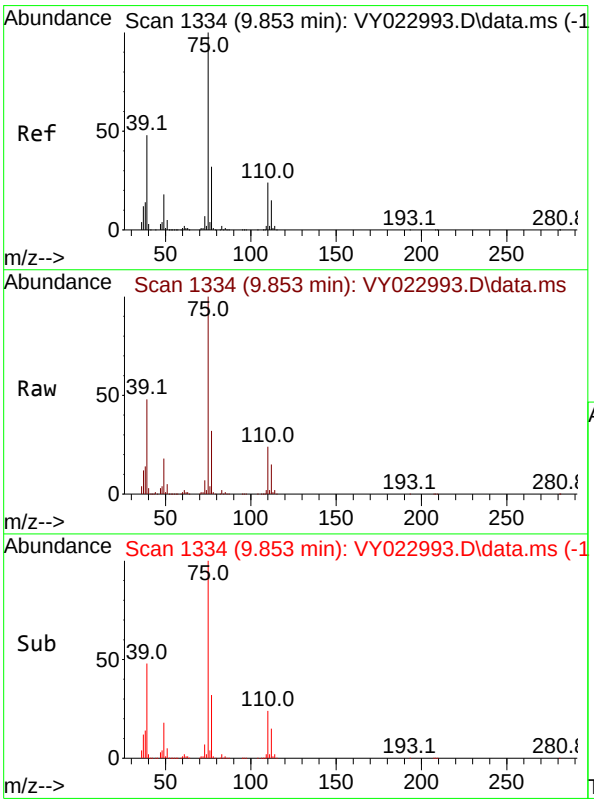
#53
t-1,3-Dichloropropene
Concen: 48.074 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 326909

Ion	Ratio	Lower	Upper
75	100		
77	33.0	26.4	39.6

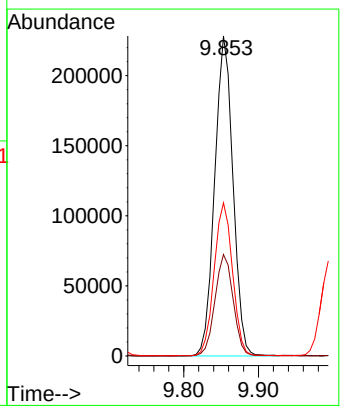


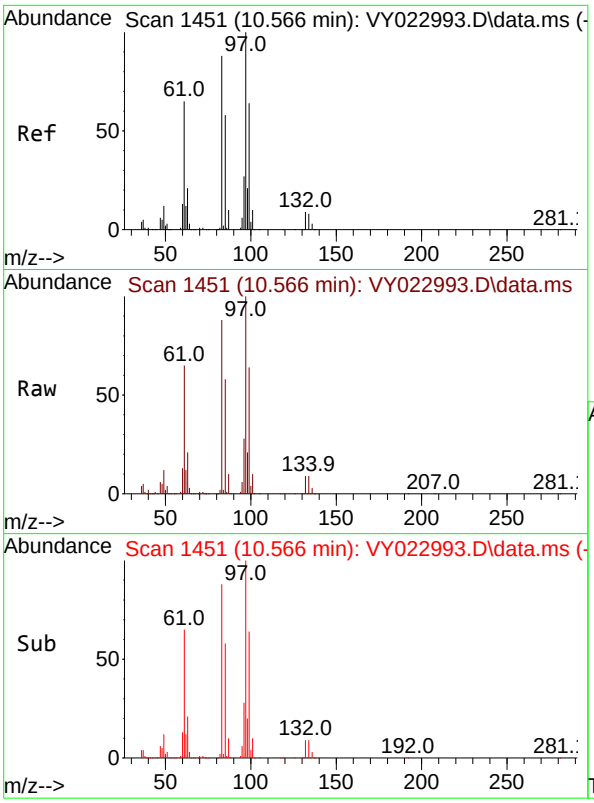


#54
cis-1,3-Dichloropropene
Concen: 47.380 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 388343

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	47.7	38.2	57.2



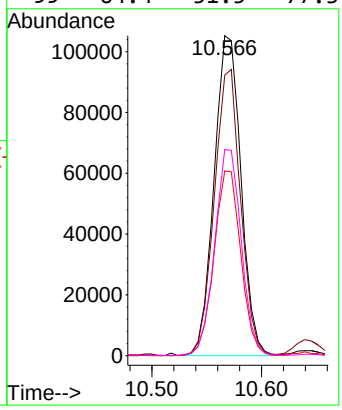


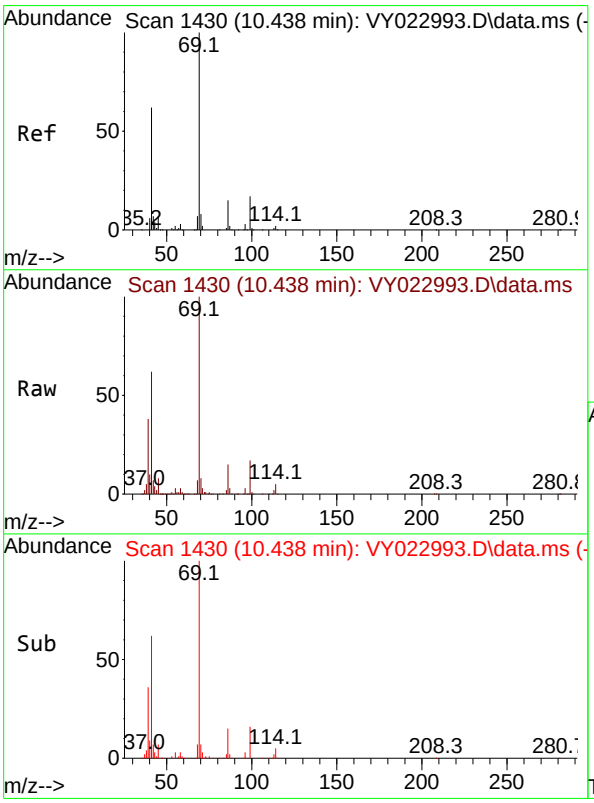
#55
1,1,2-Trichloroethane
Concen: 47.708 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 179703

Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.2	105.2
85	57.7	46.2	69.2
99	64.4	51.5	77.3

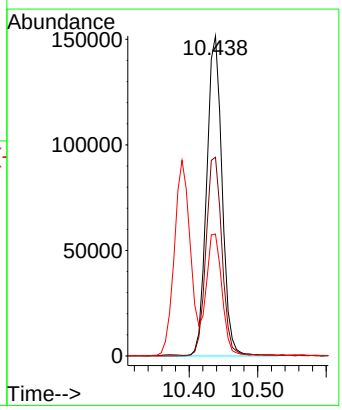


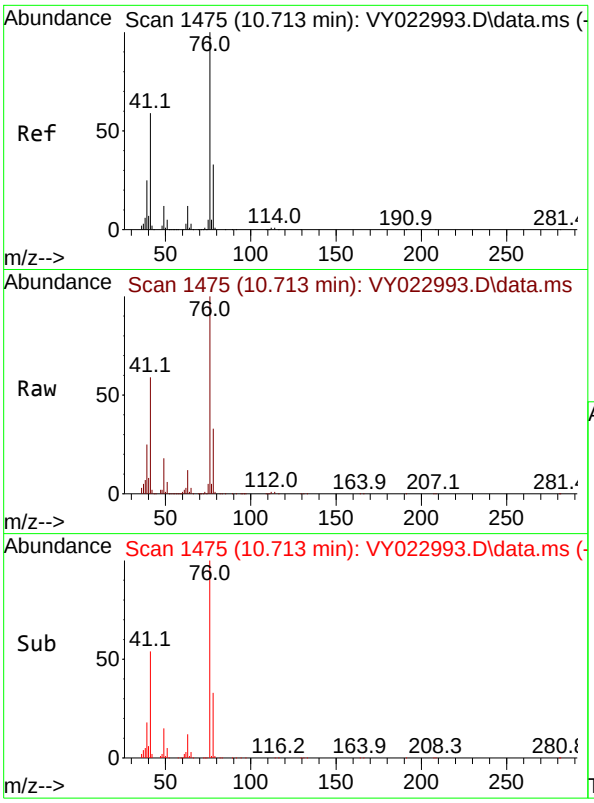


#56
Ethyl methacrylate
Concen: 50.527 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 69 Resp: 237585

Ion	Ratio	Lower	Upper
69	100		
41	63.7	51.0	76.4
39	38.3	30.6	46.0



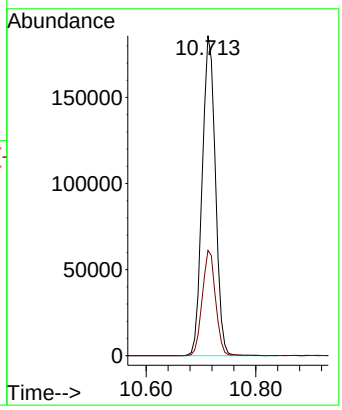


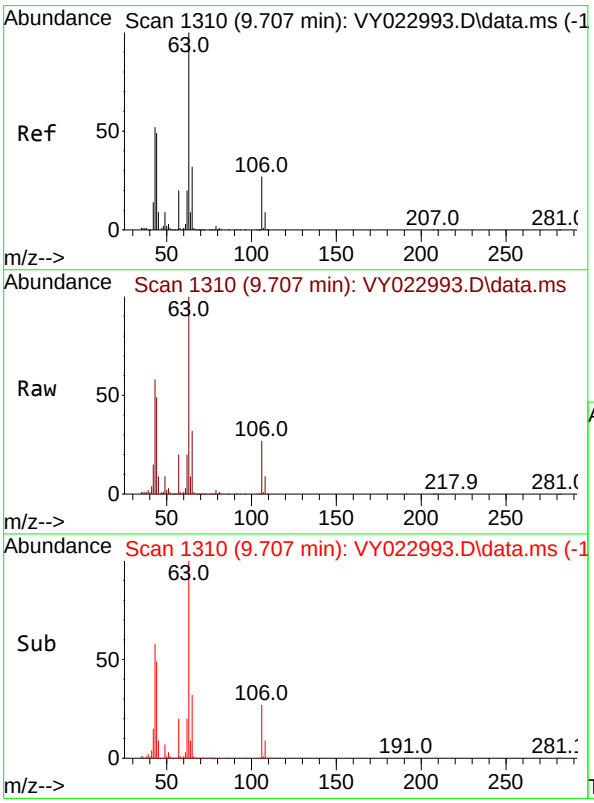
#57
1,3-Dichloropropane
Concen: 47.605 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 309762

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8

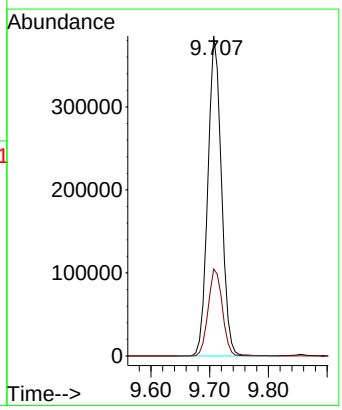


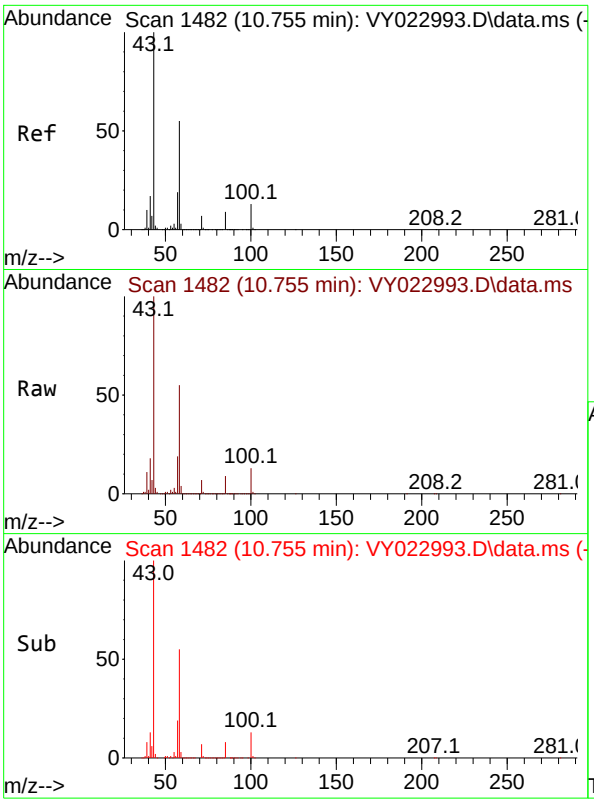


#58
2-Chloroethyl Vinyl ether
Concen: 268.792 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 63 Resp: 618691

Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.6	33.8



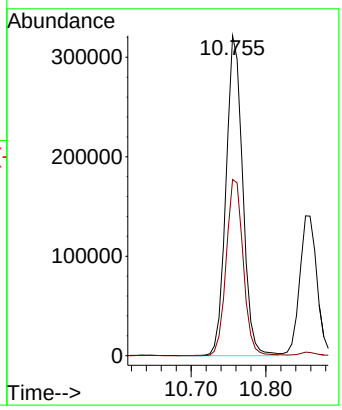


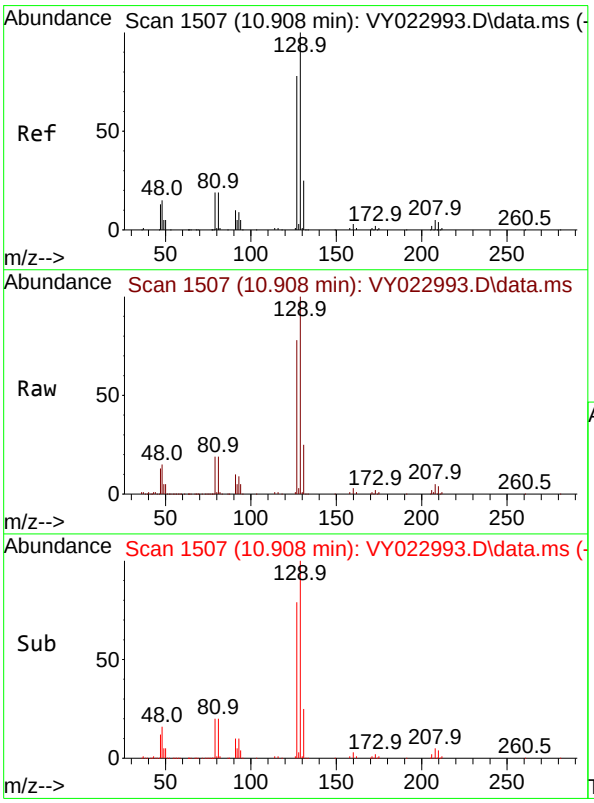
#59
2-Hexanone
Concen: 257.540 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 499848

Ion	Ratio	Lower	Upper
43	100		
58	56.2	28.1	84.3

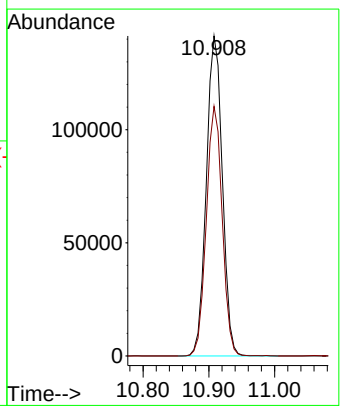


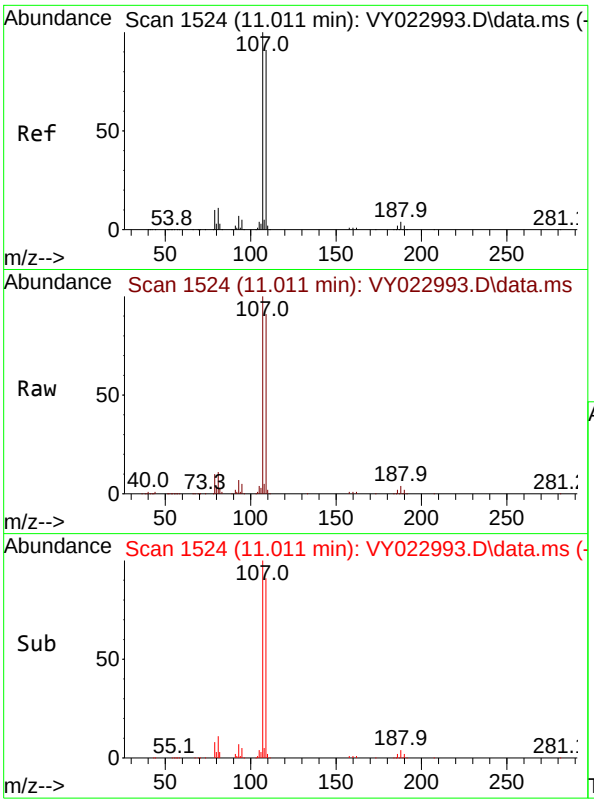


#60
Dibromochloromethane
Concen: 48.542 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:129 Resp: 239431

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.7	116.1



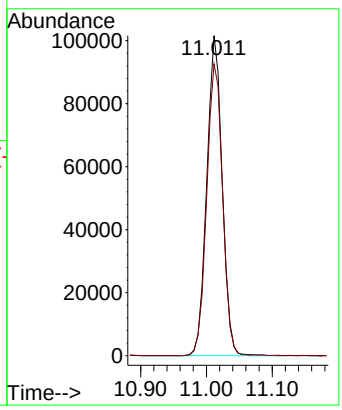


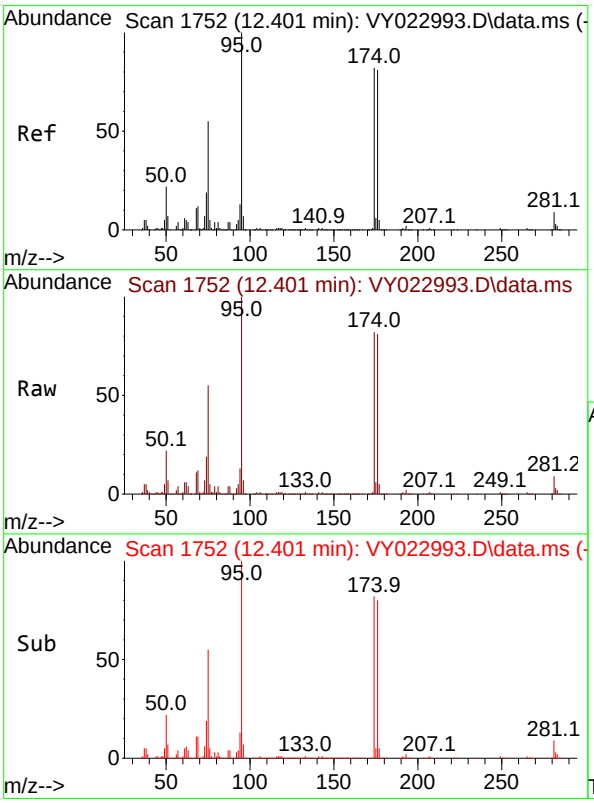
#61
1,2-Dibromoethane
Concen: 48.362 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 165428

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.1	112.7

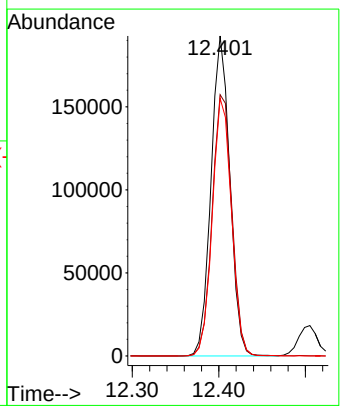


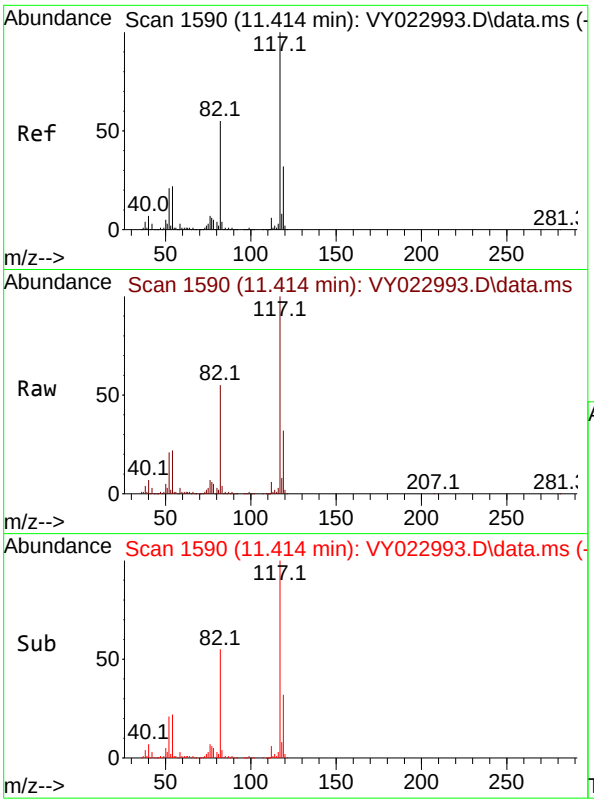


#62
4-Bromofluorobenzene
Concen: 46.597 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 95 Resp: 291196

Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	170.8
176	81.8	0.0	163.6



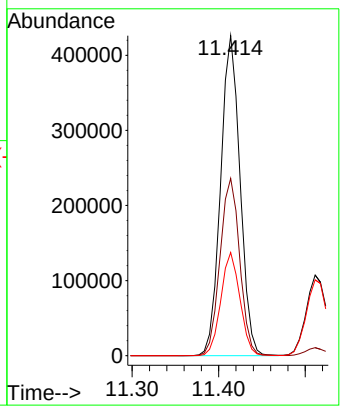


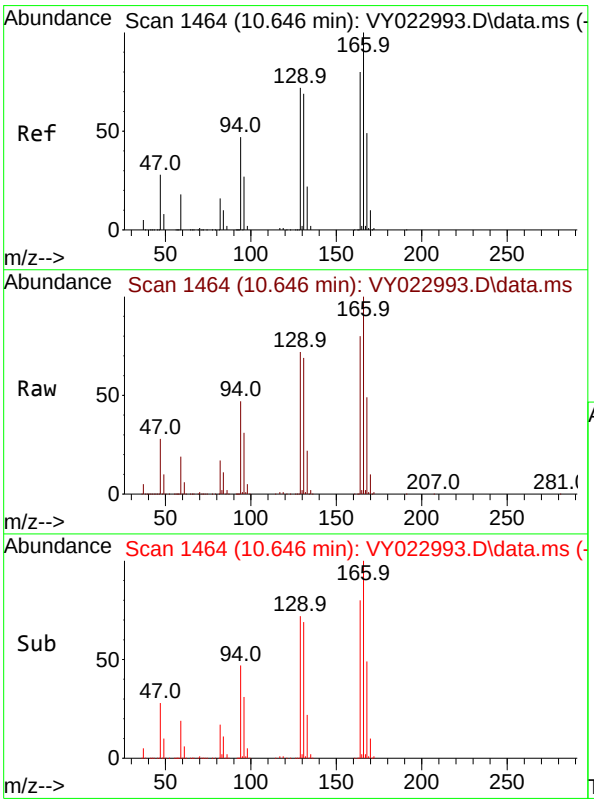
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 664286

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.3	66.5
119	32.3	25.8	38.8

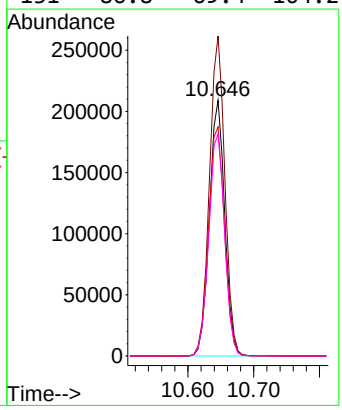


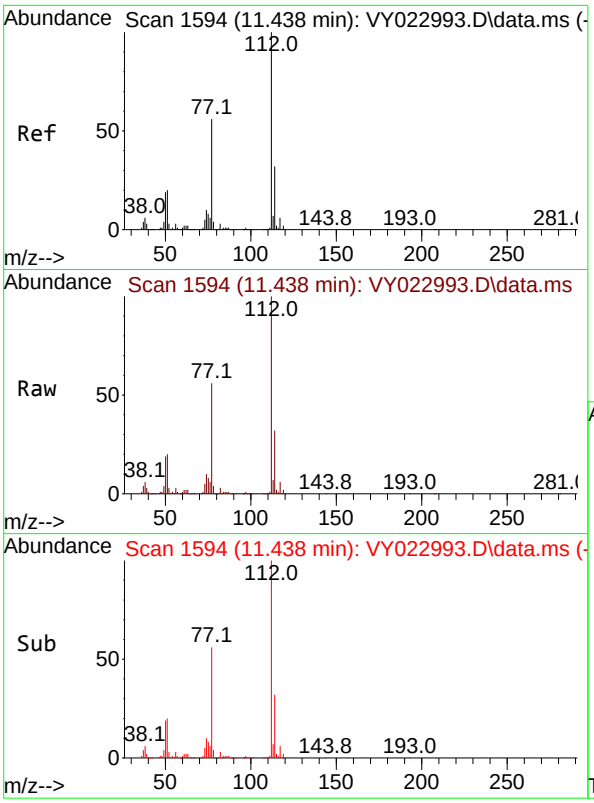


#64
Tetrachloroethene
Concen: 50.177 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:164 Resp: 340698

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	89.6	71.7	107.5
131	86.8	69.4	104.2



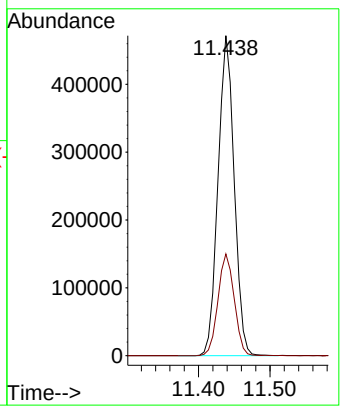


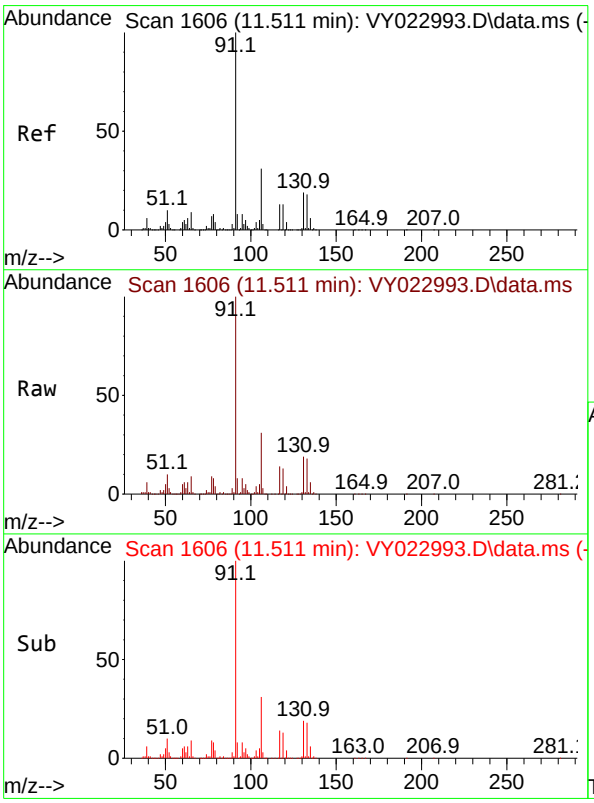
#65
Chlorobenzene
Concen: 47.205 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 739951

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2

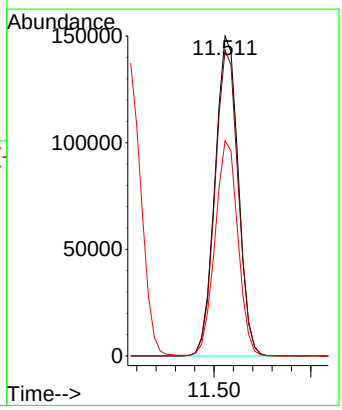


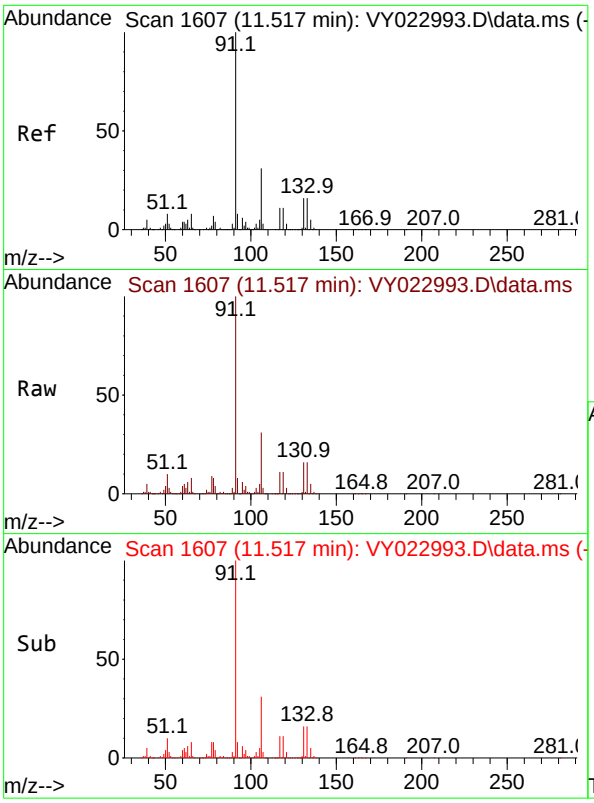


#66
1,1,1,2-Tetrachloroethane
Concen: 46.683 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:131 Resp: 249587

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.8	143.3
119	66.5	33.3	99.8



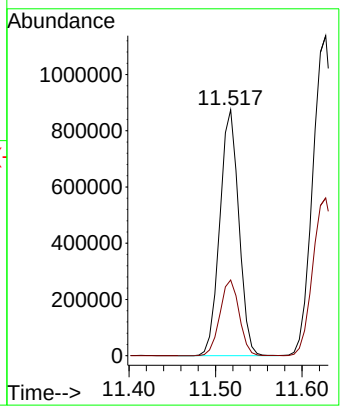


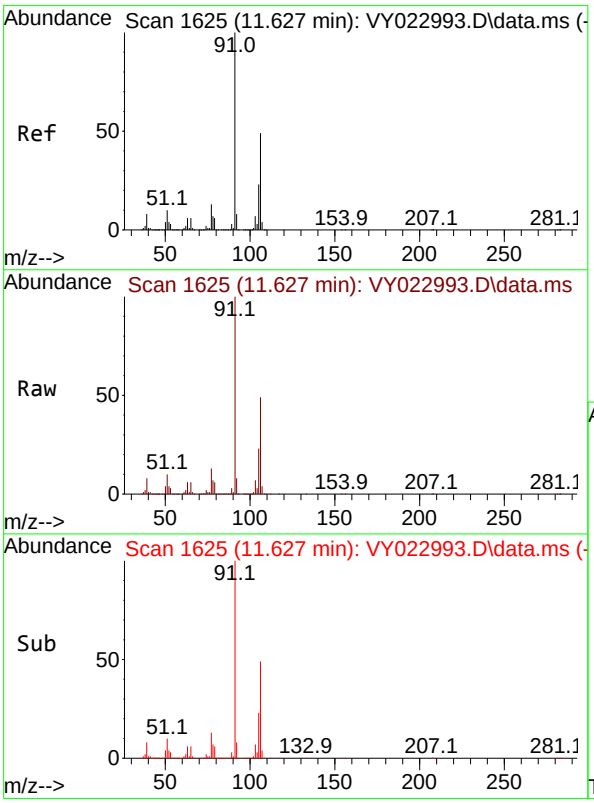
#67
Ethyl Benzene
Concen: 47.990 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1333383

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	37.0

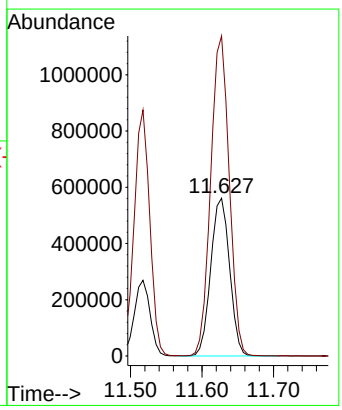


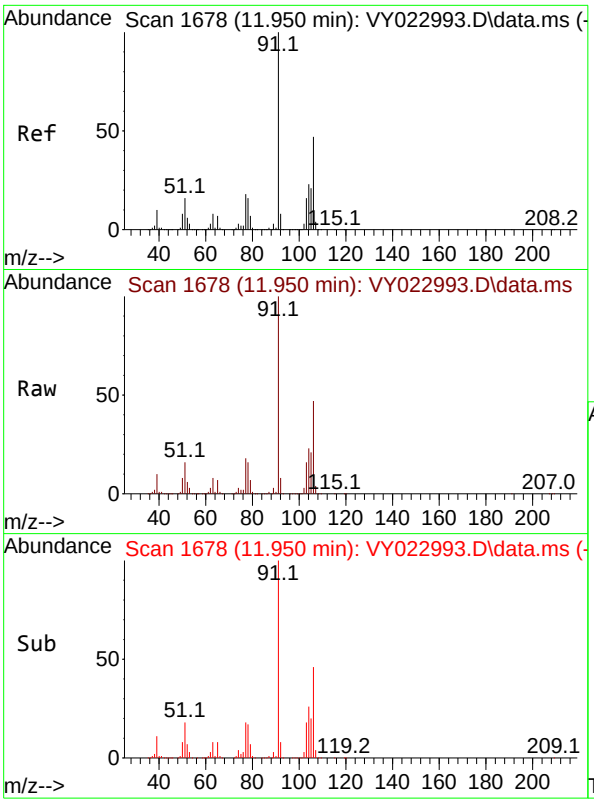


#68
m/p-Xylenes
Concen: 96.245 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:106 Resp: 1025693

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8



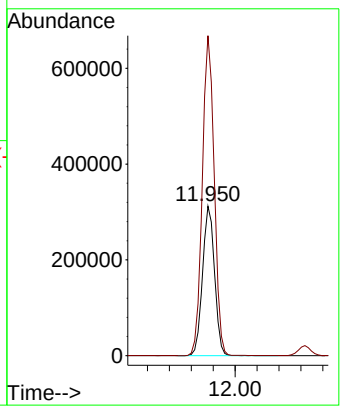


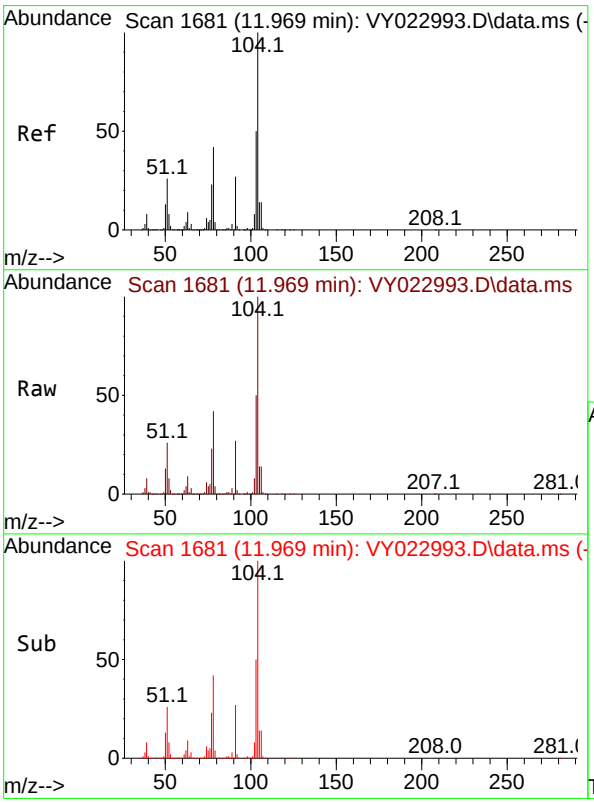
#69
o-Xylene
Concen: 47.893 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 473669

Ion	Ratio	Lower	Upper
106	100		
91	212.5	106.3	318.8

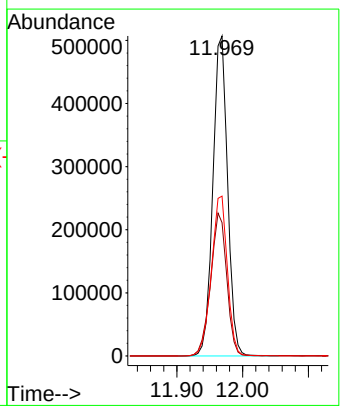


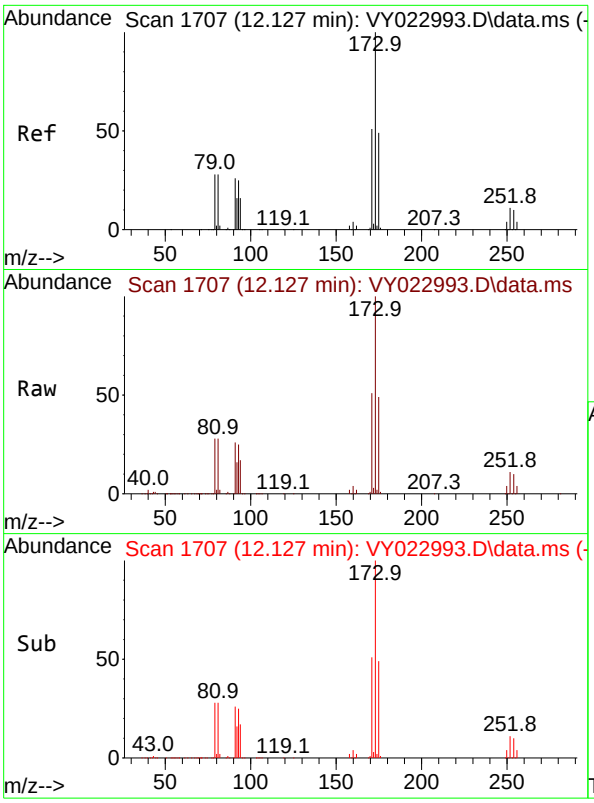


#70
Styrene
Concen: 48.697 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:104 Resp: 788910

Ion	Ratio	Lower	Upper
104	100		
78	48.8	39.0	58.6
103	54.6	43.7	65.5



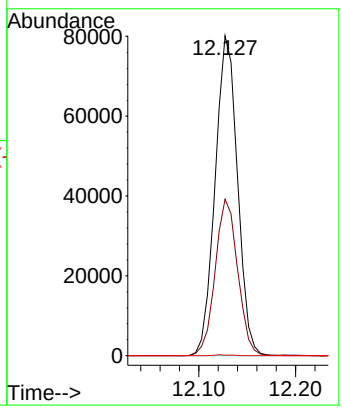


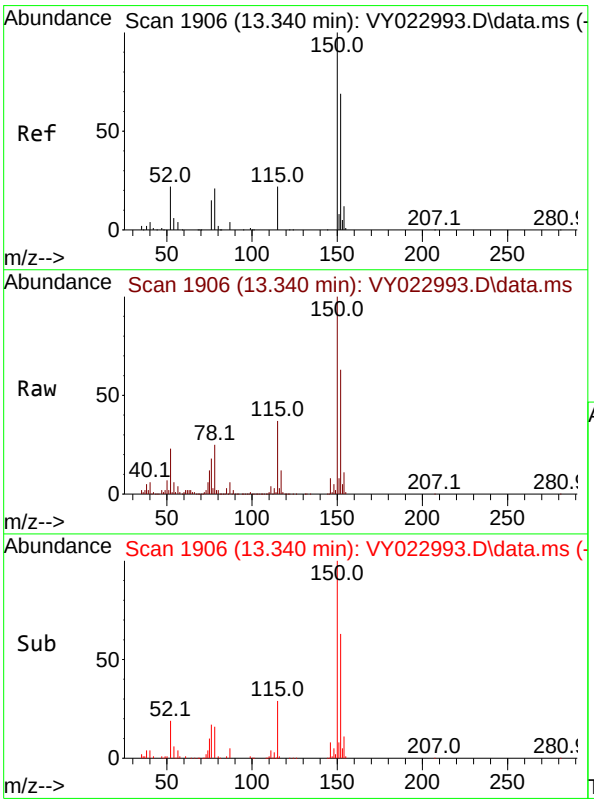
#71
Bromoform
Concen: 47.377 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 128589

Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.2	0.2	0.2

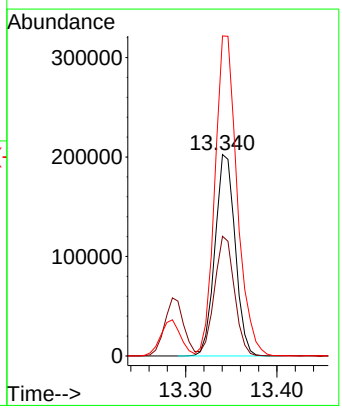


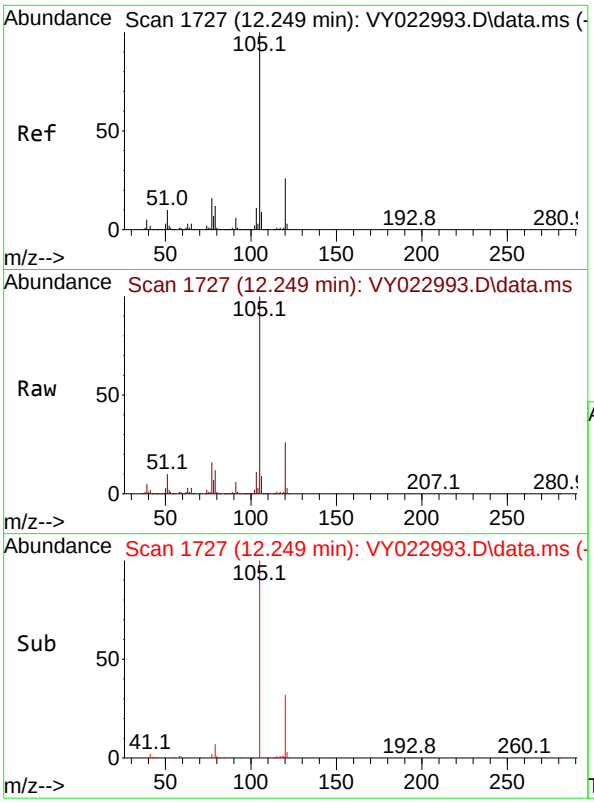


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:152 Resp: 311329

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.4	88.2
150	175.0	0.0	350.0



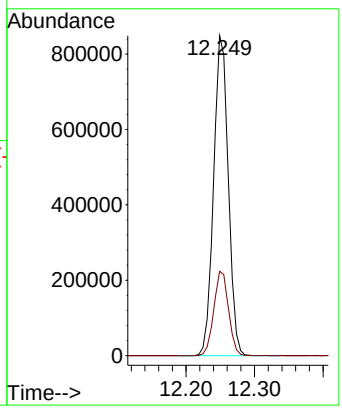


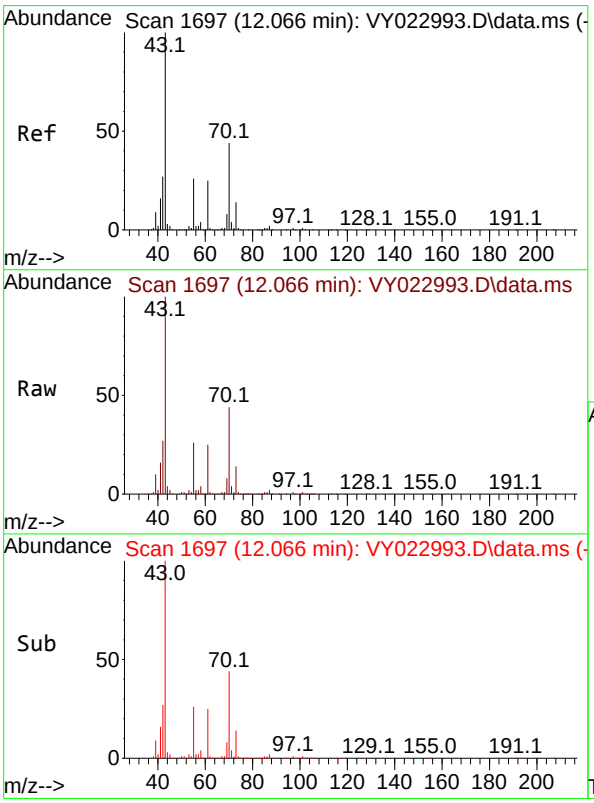
#73
Isopropylbenzene
Concen: 47.788 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 1261366

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

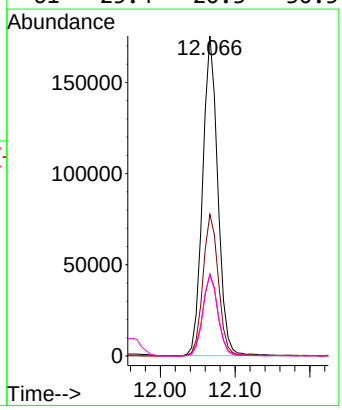


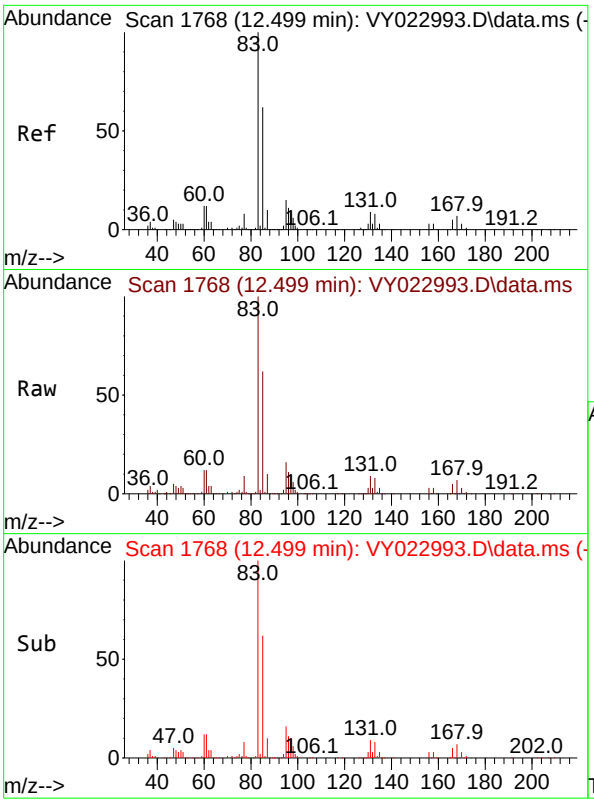


#74
N-amyl acetate
Concen: 49.681 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 43 Resp: 247232

Ion	Ratio	Lower	Upper
43	100		
70	45.2	36.2	54.2
55	26.1	20.9	31.3
61	25.4	20.3	30.5



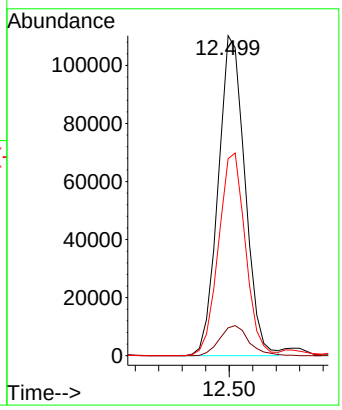


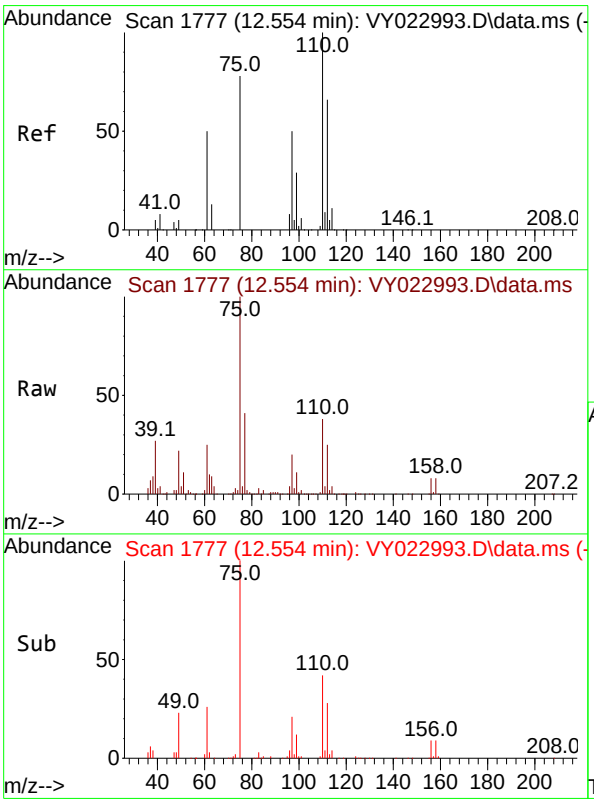
#75
1,1,2,2-Tetrachloroethane
Concen: 45.650 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 174373

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.8	31.9	95.7

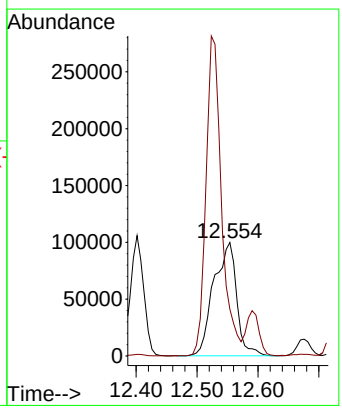


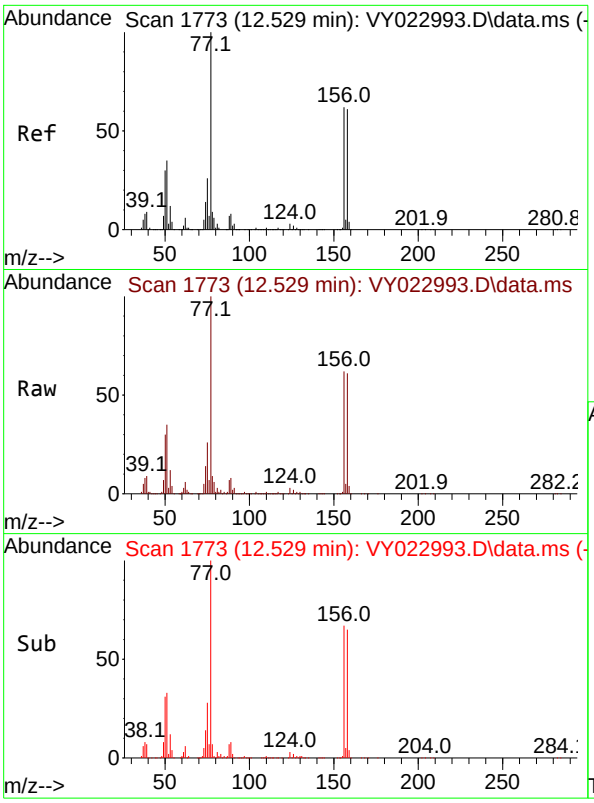


#76
1,2,3-Trichloropropane
Concen: 66.795 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 261721

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



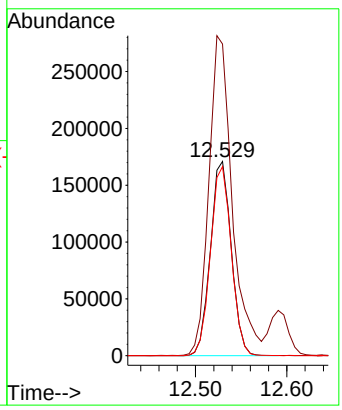


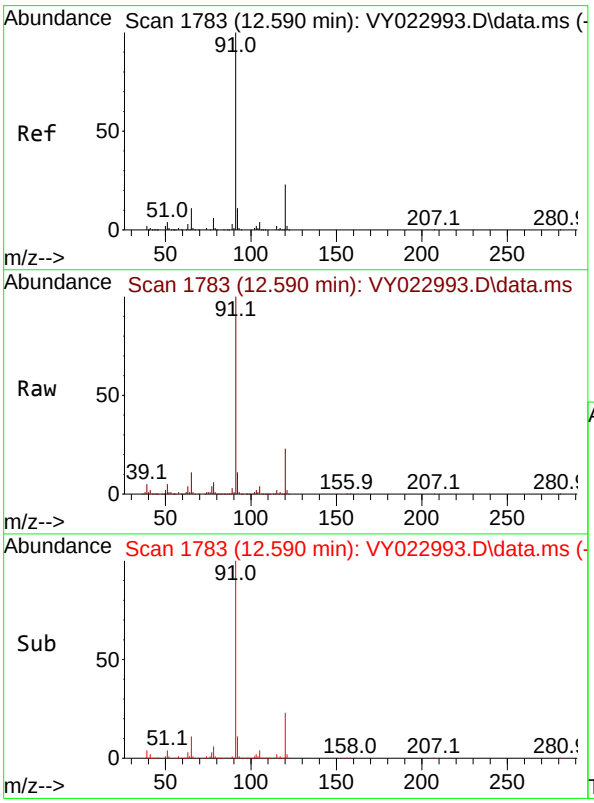
#77
Bromobenzene
Concen: 47.332 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 270964

Ion	Ratio	Lower	Upper
156	100		
77	184.1	92.0	276.1
158	97.3	48.6	145.9

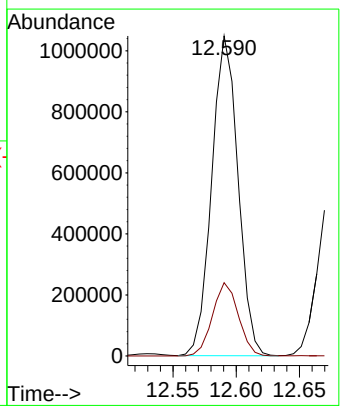


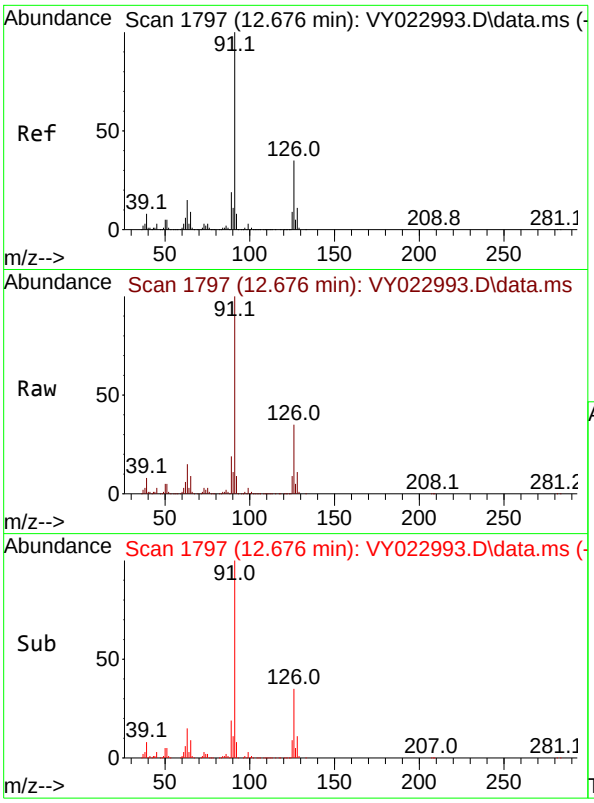


#78
n-propylbenzene
Concen: 48.154 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 91 Resp: 1513613

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8



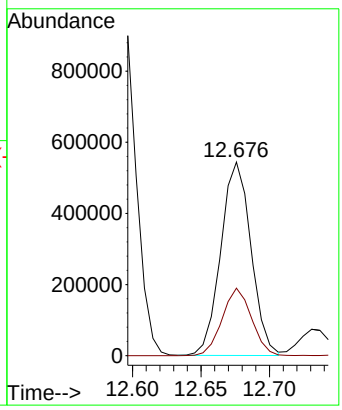


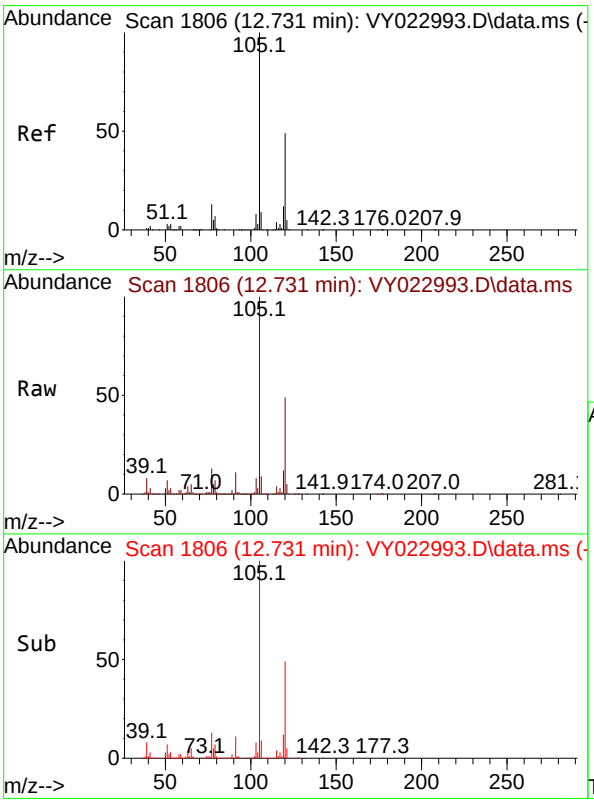
#79
2-Chlorotoluene
Concen: 47.226 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 834869

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

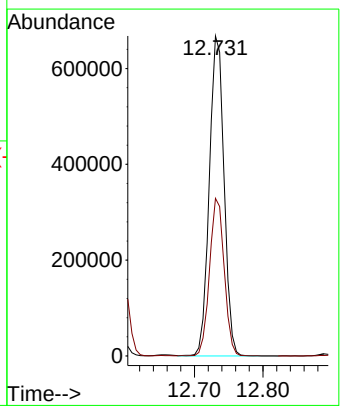


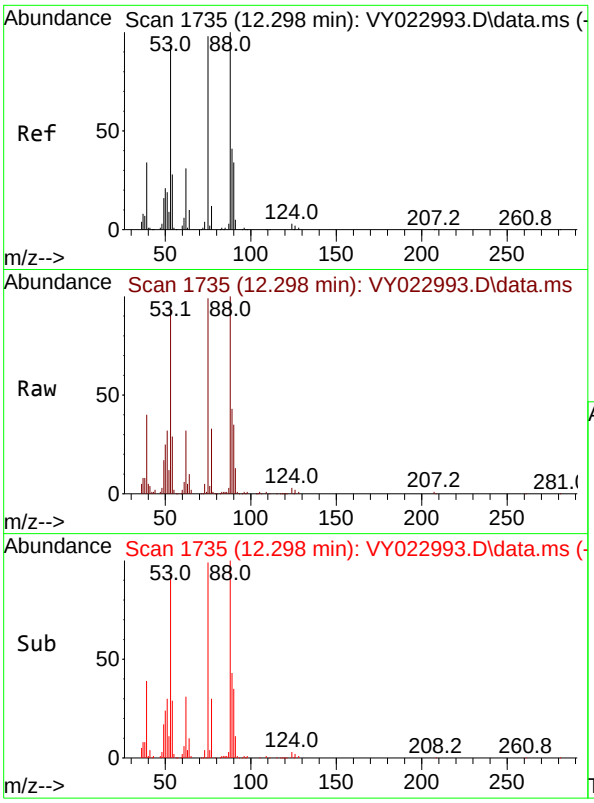


#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:105 Resp: 999303

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.6	73.8



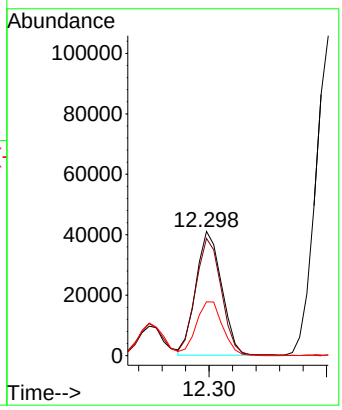


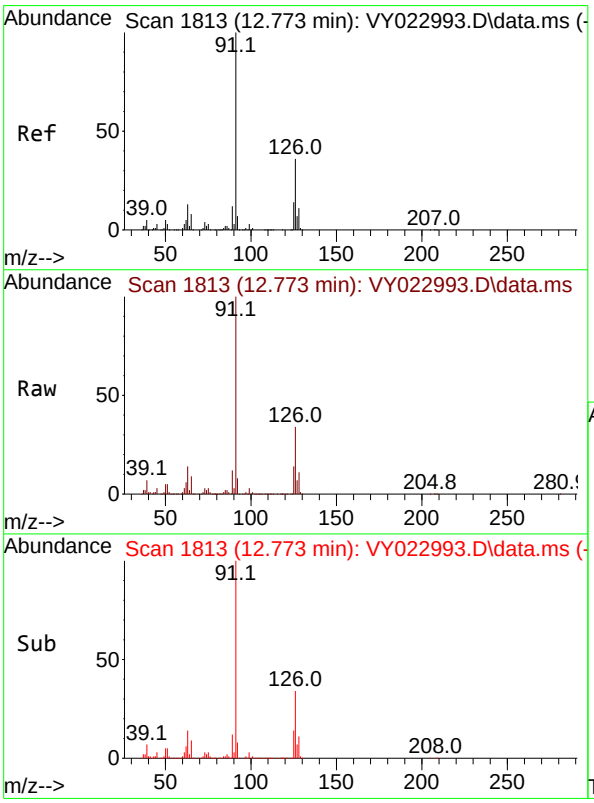
#81
trans-1,4-Dichloro-2-butene
Concen: 47.883 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 62367

Ion	Ratio	Lower	Upper
75	100		
53	95.1	76.1	114.1
89	45.1	36.1	54.1

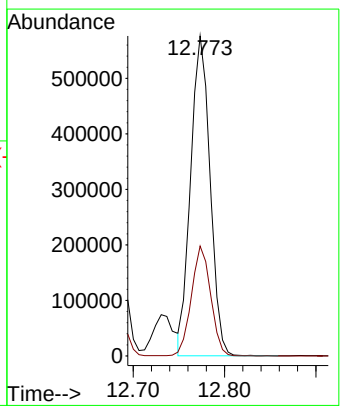


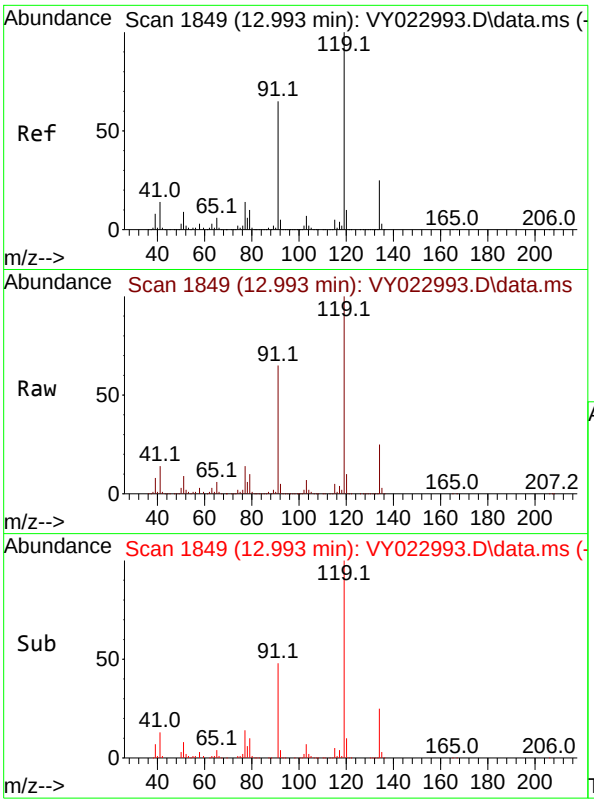


#82
4-Chlorotoluene
Concen: 47.667 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 91 Resp: 849887

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.2	51.5



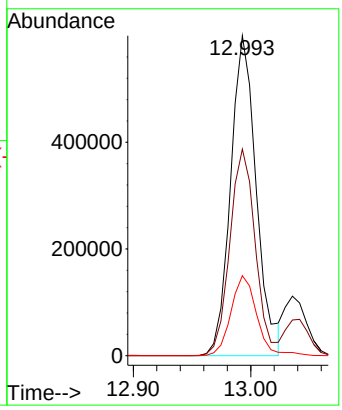


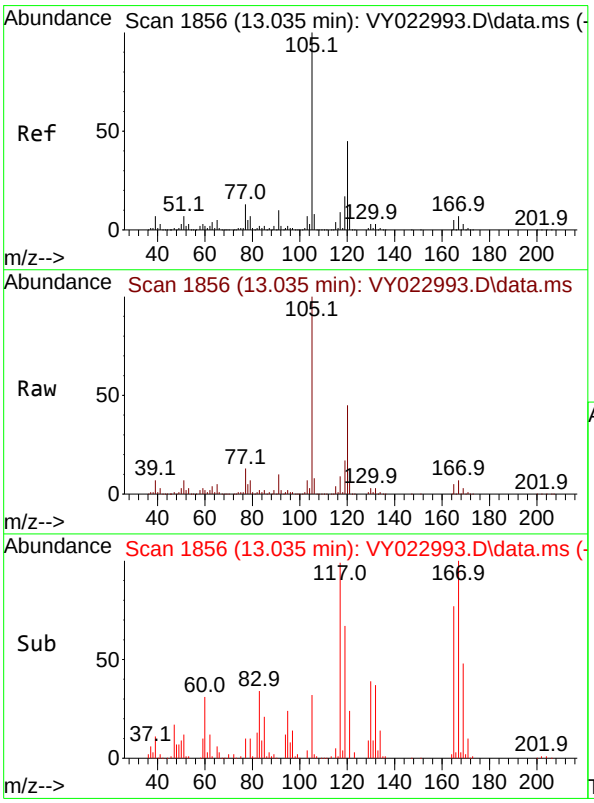
#83
tert-Butylbenzene
Concen: 48.474 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 911526

Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.0	96.2
134	25.1	12.6	37.6

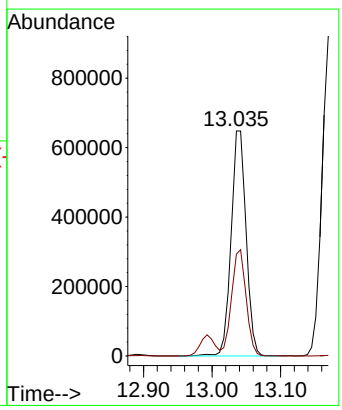


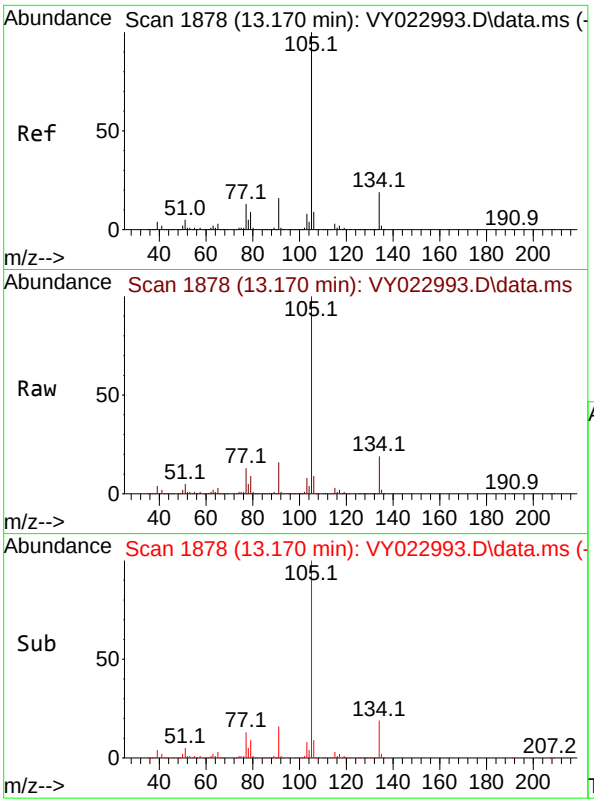


#84
1,2,4-Trimethylbenzene
Concen: 48.169 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:105 Resp: 987090

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.8



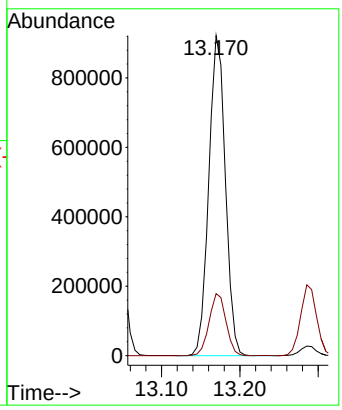


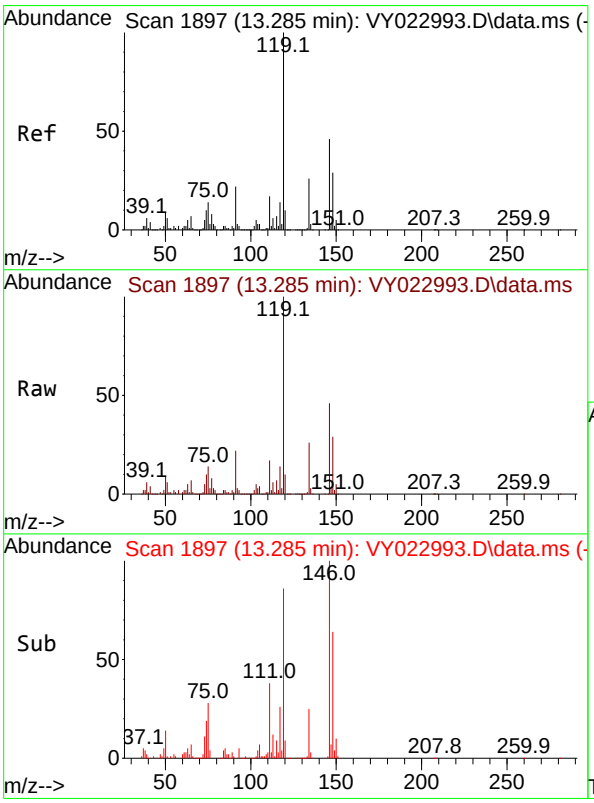
#85
sec-Butylbenzene
Concen: 47.965 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 1351665

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

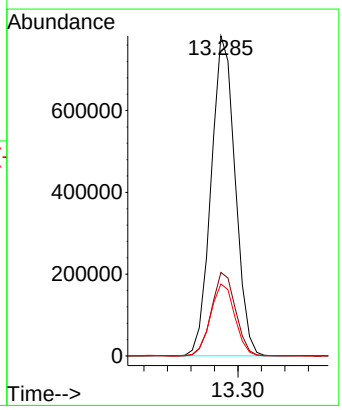


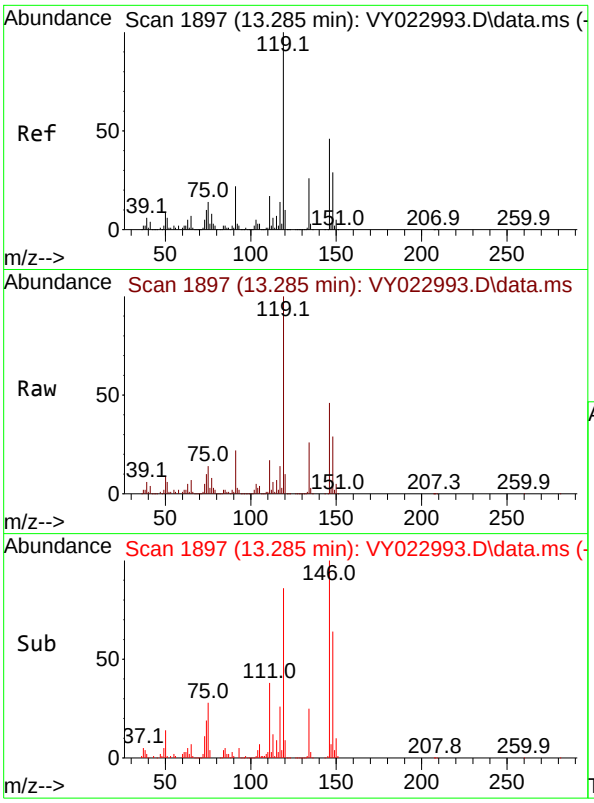


#86
p-Isopropyltoluene
Concen: 48.505 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:119 Resp: 1110110

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	22.7	11.4	34.1



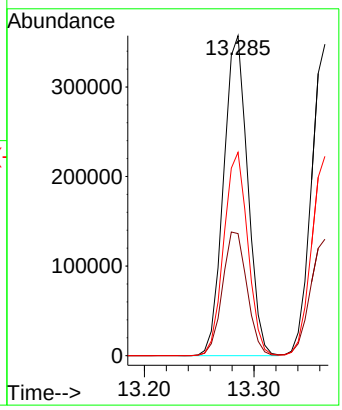


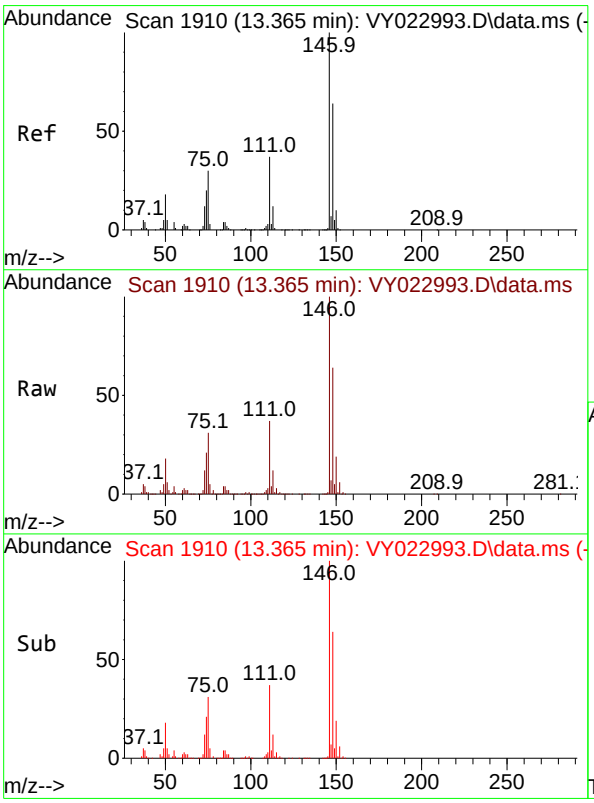
#87
1,3-Dichlorobenzene
Concen: 47.167 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 544923

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.2	31.6	94.8

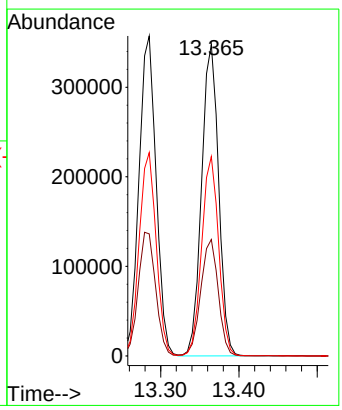


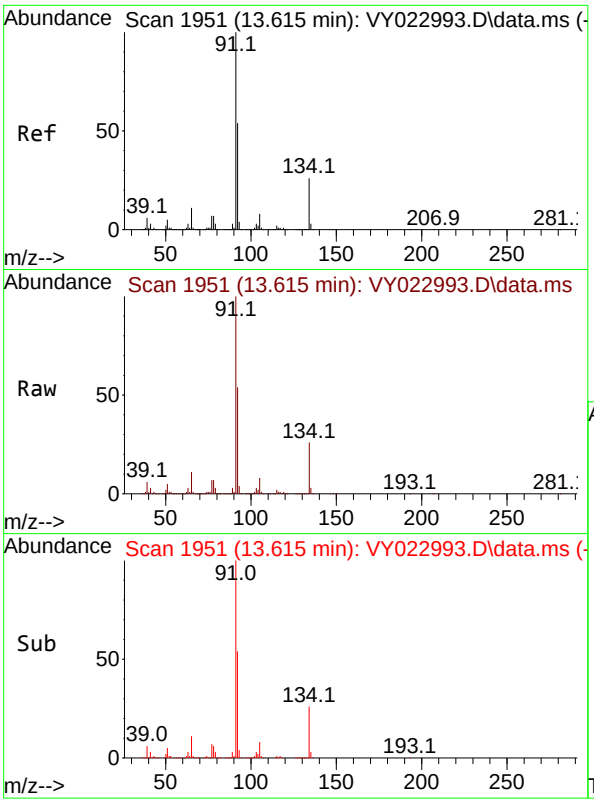


#88
1,4-Dichlorobenzene
Concen: 46.985 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:146 Resp: 525144

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	63.7	31.9	95.5



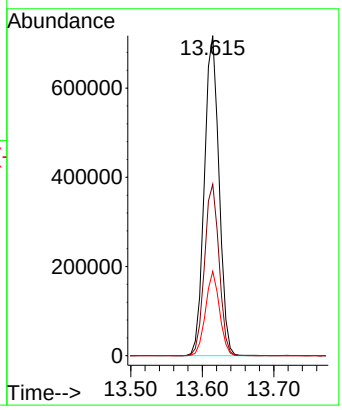


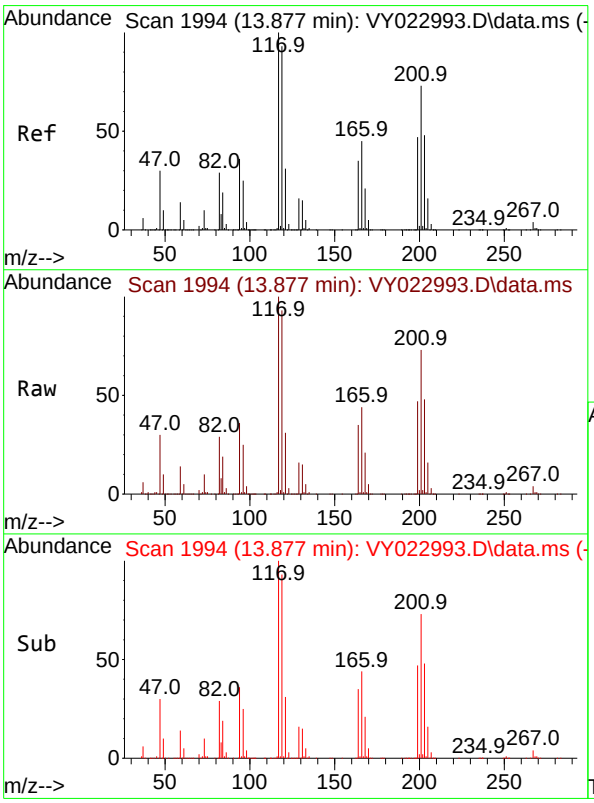
#89
n-Butylbenzene
Concen: 48.359 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1021282

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.1	12.6	37.6

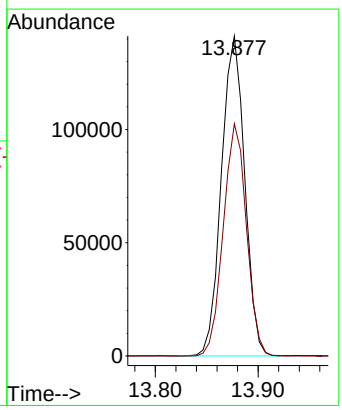


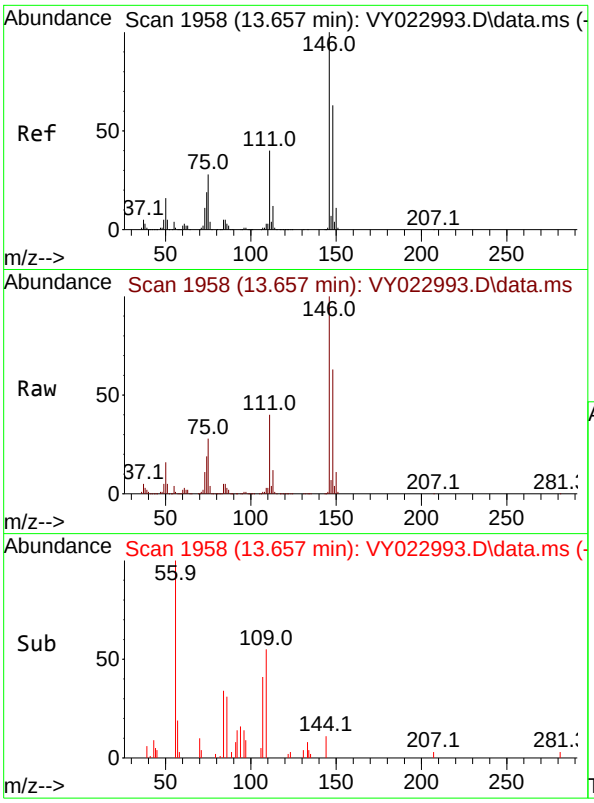


#90
Hexachloroethane
Concen: 46.822 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:117 Resp: 221864

Ion	Ratio	Lower	Upper
117	100		
201	72.3	36.1	108.5



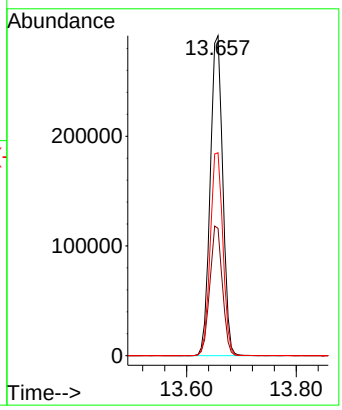


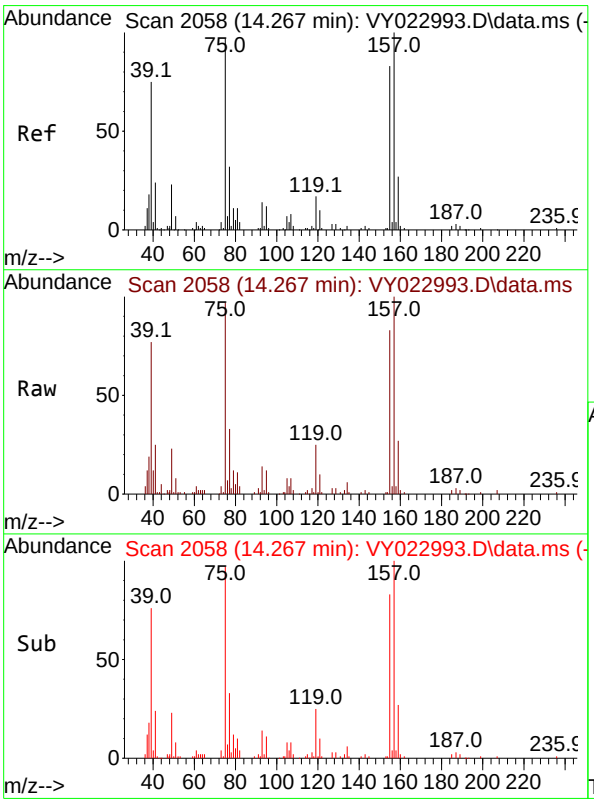
#91
1,2-Dichlorobenzene
Concen: 47.229 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 460252

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	64.1	32.0	96.2

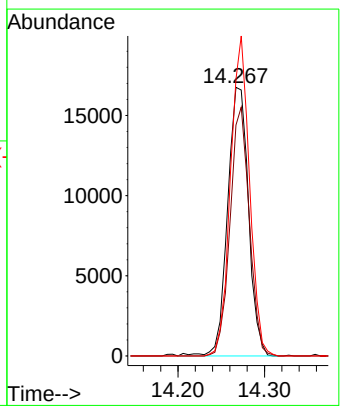


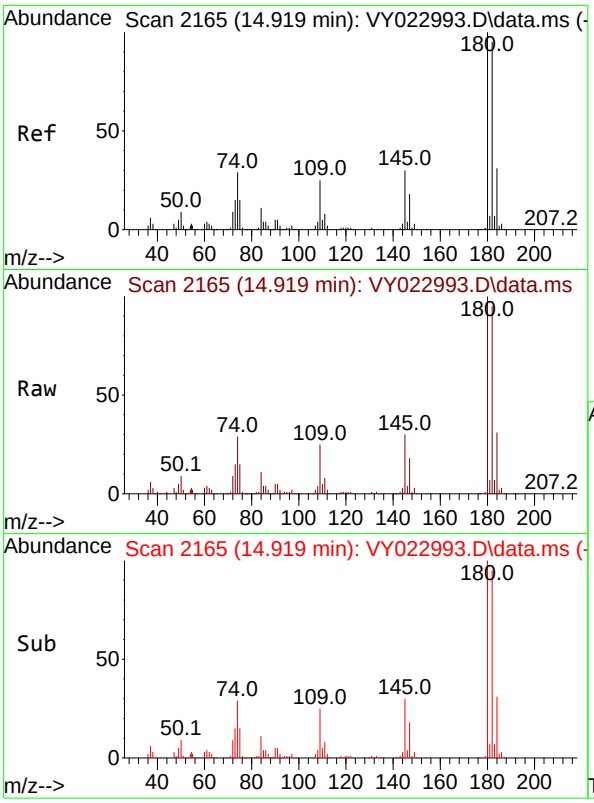


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.379 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion: 75 Resp: 28006

Ion	Ratio	Lower	Upper
75	100		
155	85.5	42.8	128.3
157	108.6	54.3	162.9



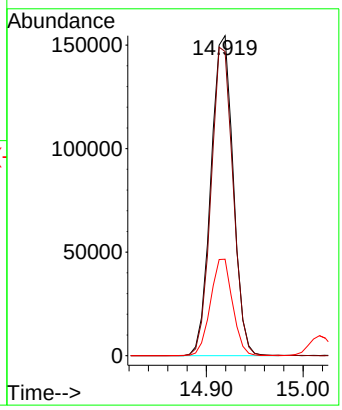


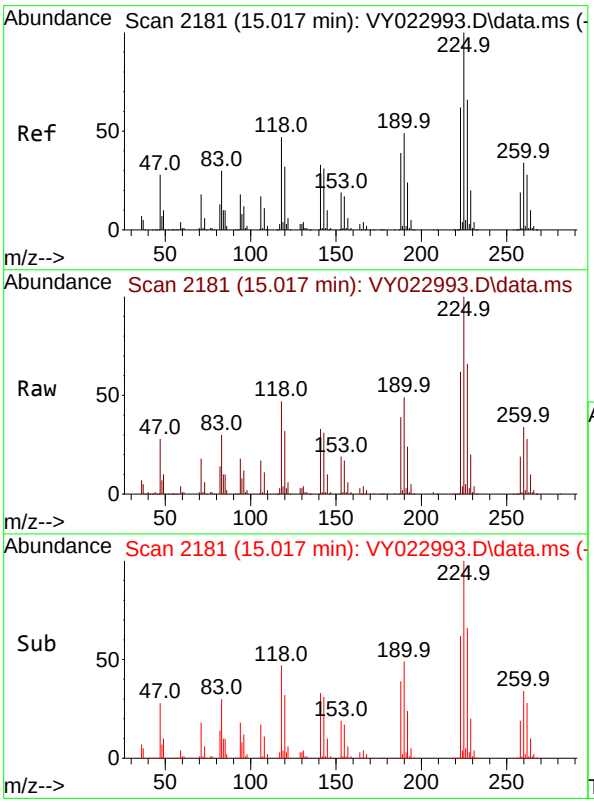
#93
1,2,4-Trichlorobenzene
Concen: 48.140 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 247288

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.5	142.5
145	29.9	14.9	44.9

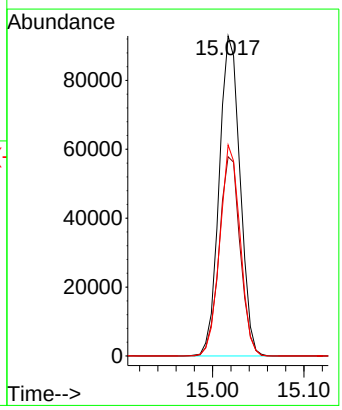


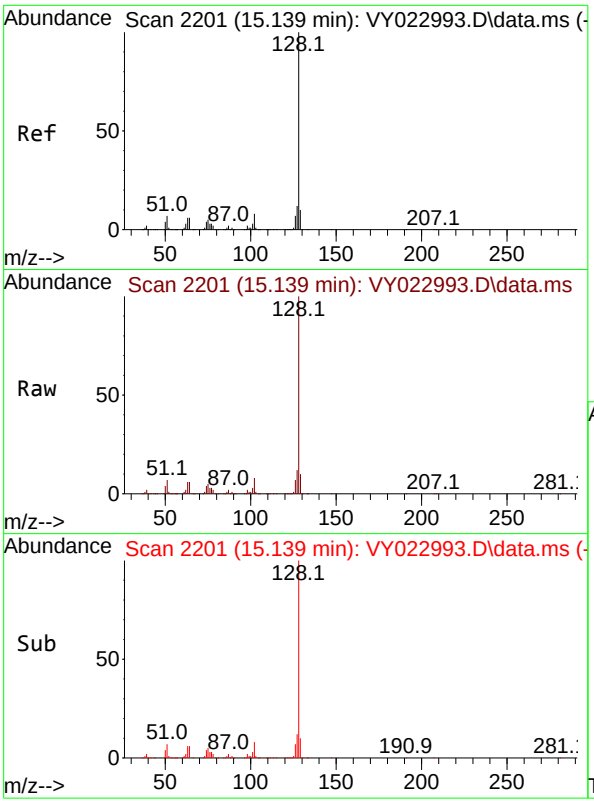


#94
Hexachlorobutadiene
Concen: 45.479 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:225 Resp: 147284

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.0
227	64.3	32.1	96.5



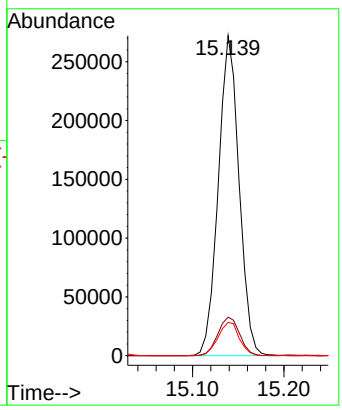


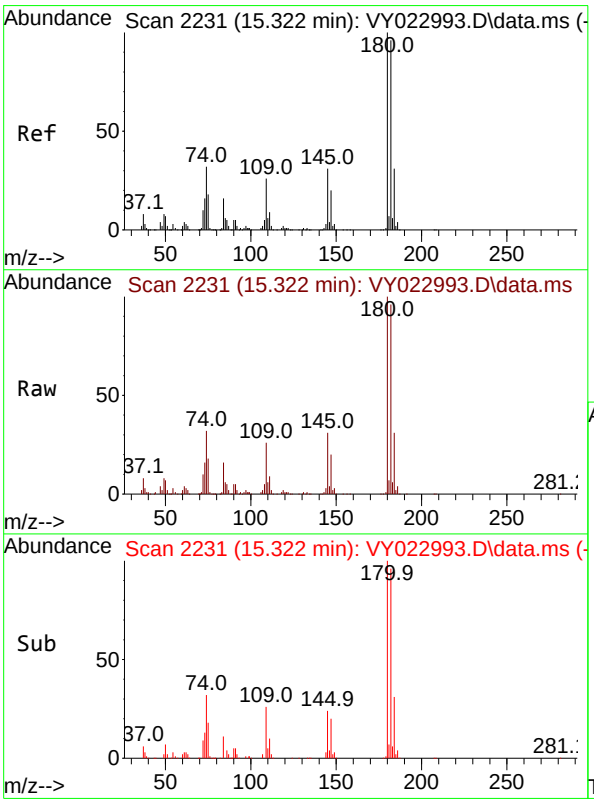
#95
Naphthalene
Concen: 52.172 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 429845

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.7	8.6	12.8

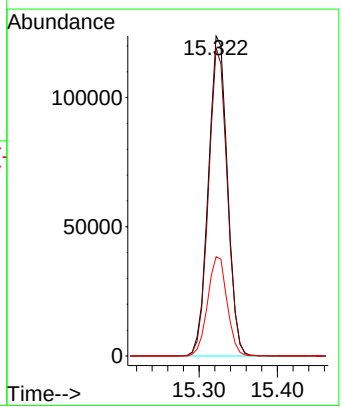




#96
1,2,3-Trichlorobenzene
Concen: 49.224 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY022993.D
Acq: 18 Jul 2025 12:04

Tgt Ion:180 Resp: 208782

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.3	142.0
145	31.6	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	475954	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	780876	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	678532	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	336381	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	493933	102.513	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 205.020%#			
35) Dibromofluoromethane	7.634	113	482657	97.440	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 194.880%#			
50) Toluene-d8	10.103	98	1910579	97.264	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 194.520%#			
62) 4-Bromofluorobenzene	12.402	95	621212	100.465	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 200.920%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	343933	85.103	ug/l	99
3) Chloromethane	2.068	50	601188	87.486	ug/l	99
4) Vinyl Chloride	2.202	62	785743	90.253	ug/l	98
5) Bromomethane	2.586	94	577639	91.932	ug/l	98
6) Chloroethane	2.733	64	535701	92.133	ug/l	99
7) Trichlorofluoromethane	3.050	101	909366	89.982	ug/l	97
8) Diethyl Ether	3.452	74	255324	96.529	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	469718	88.476	ug/l	100
10) Methyl Iodide	4.001	142	575669	104.378	ug/l	99
11) Tert butyl alcohol	4.860	59	147261	502.619	ug/l	98
12) 1,1-Dichloroethene	3.787	96	460202	90.995	ug/l	97
13) Acrolein	3.653	56	39471	298.871	ug/l	95
14) Allyl chloride	4.379	41	750900	97.457	ug/l	100
15) Acrylonitrile	5.055	53	520028	519.058	ug/l	99
16) Acetone	3.867	43	381982	437.355	ug/l	98
17) Carbon Disulfide	4.104	76	1399893	91.330	ug/l	100
18) Methyl Acetate	4.385	43	307662	104.049	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1256898	103.613	ug/l	99
20) Methylene Chloride	4.610	84	565355	100.432	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	539769	95.878	ug/l	99
22) Diisopropyl ether	6.019	45	1674257	102.426	ug/l	99
23) Vinyl Acetate	5.958	43	4415435	536.099	ug/l	100
24) 1,1-Dichloroethane	5.909	63	998111	97.216	ug/l	99
25) 2-Butanone	6.890	43	637358	508.682	ug/l	99
26) 2,2-Dichloropropane	6.884	77	850357	94.504	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	647185	99.748	ug/l	99
28) Bromochloromethane	7.244	49	404739	101.639	ug/l	99
29) Tetrahydrofuran	7.262	42	419926	529.354	ug/l	99
30) Chloroform	7.421	83	1018437	98.332	ug/l	98
31) Cyclohexane	7.701	56	844759	88.057	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	884489	94.120	ug/l	100
36) 1,1-Dichloropropene	7.835	75	722234	92.565	ug/l	99
37) Ethyl Acetate	6.982	43	288448	99.541	ug/l	100
38) Carbon Tetrachloride	7.817	117	778082	91.791	ug/l	98
39) Methylcyclohexane	9.110	83	943130	93.389	ug/l	98
40) Benzene	8.079	78	2269537	96.608	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	164406	107.489	ug/l		97
42) 1,2-Dichloroethane	8.158	62	585330	100.148	ug/l		100
43) Isopropyl Acetate	8.195	43	607757	105.586	ug/l	#	86
44) Trichloroethene	8.866	130	563155	93.331	ug/l		98
45) 1,2-Dichloropropane	9.140	63	533997	97.337	ug/l		100
46) Dibromomethane	9.225	93	284227	100.232	ug/l		99
47) Bromodichloromethane	9.420	83	781857	99.747	ug/l		99
48) Methyl methacrylate	9.219	41	295029	106.166	ug/l		98
49) 1,4-Dioxane	9.225	88	65215	2181.786	ug/l		93
51) 4-Methyl-2-Pentanone	9.994	43	1565020	535.675	ug/l		98
52) Toluene	10.170	92	1466593	100.411	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	705883	104.909	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	825037	101.731	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	379653	101.863	ug/l		98
56) Ethyl methacrylate	10.439	69	525284	112.902	ug/l		99
57) 1,3-Dichloropropane	10.713	76	659240	102.392	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	1299087	570.401	ug/l		100
59) 2-Hexanone	10.756	43	1036463	539.710	ug/l		98
60) Dibromochloromethane	10.908	129	502369	102.935	ug/l		100
61) 1,2-Dibromoethane	11.012	107	348166	102.869	ug/l		100
64) Tetrachloroethene	10.646	164	642694	92.667	ug/l		99
65) Chlorobenzene	11.438	112	1553437	97.021	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.512	131	534070	97.795	ug/l		100
67) Ethyl Benzene	11.518	91	2801373	98.709	ug/l		99
68) m/p-Xylenes	11.621	106	2176388	199.933	ug/l		98
69) o-Xylene	11.950	106	1029408	101.898	ug/l		98
70) Styrene	11.963	104	1721270	104.018	ug/l		100
71) Bromoform	12.127	173	291448	105.125	ug/l	#	99
73) Isopropylbenzene	12.249	105	2633517	92.342	ug/l		99
74) N-amyl acetate	12.066	43	559798	104.113	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	391508	94.863	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	560868	132.482	ug/l	#	100
77) Bromobenzene	12.530	156	591382	95.609	ug/l		100
78) n-propylbenzene	12.591	91	3128958	92.131	ug/l		98
79) 2-Chlorotoluene	12.676	91	1787847	93.601	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	2134216	94.884	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	136910	97.286	ug/l		96
82) 4-Chlorotoluene	12.774	91	1819454	94.446	ug/l		99
83) tert-Butylbenzene	12.993	119	1906177	93.818	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	2136779	96.506	ug/l		99
85) sec-Butylbenzene	13.170	105	2845557	93.457	ug/l		99
86) p-Isopropyltoluene	13.286	119	2393335	96.785	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	1199663	96.105	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	1147484	95.021	ug/l		100
89) n-Butylbenzene	13.615	91	2202992	96.545	ug/l		100
90) Hexachloroethane	13.877	117	471548	92.105	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	1014265	96.328	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	60444	98.636	ug/l		99
93) 1,2,4-Trichlorobenzene	14.913	180	563754	101.574	ug/l		99
94) Hexachlorobutadiene	15.017	225	318528	91.031	ug/l		99
95) Naphthalene	15.139	128	998336	112.148	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	477101	104.109	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

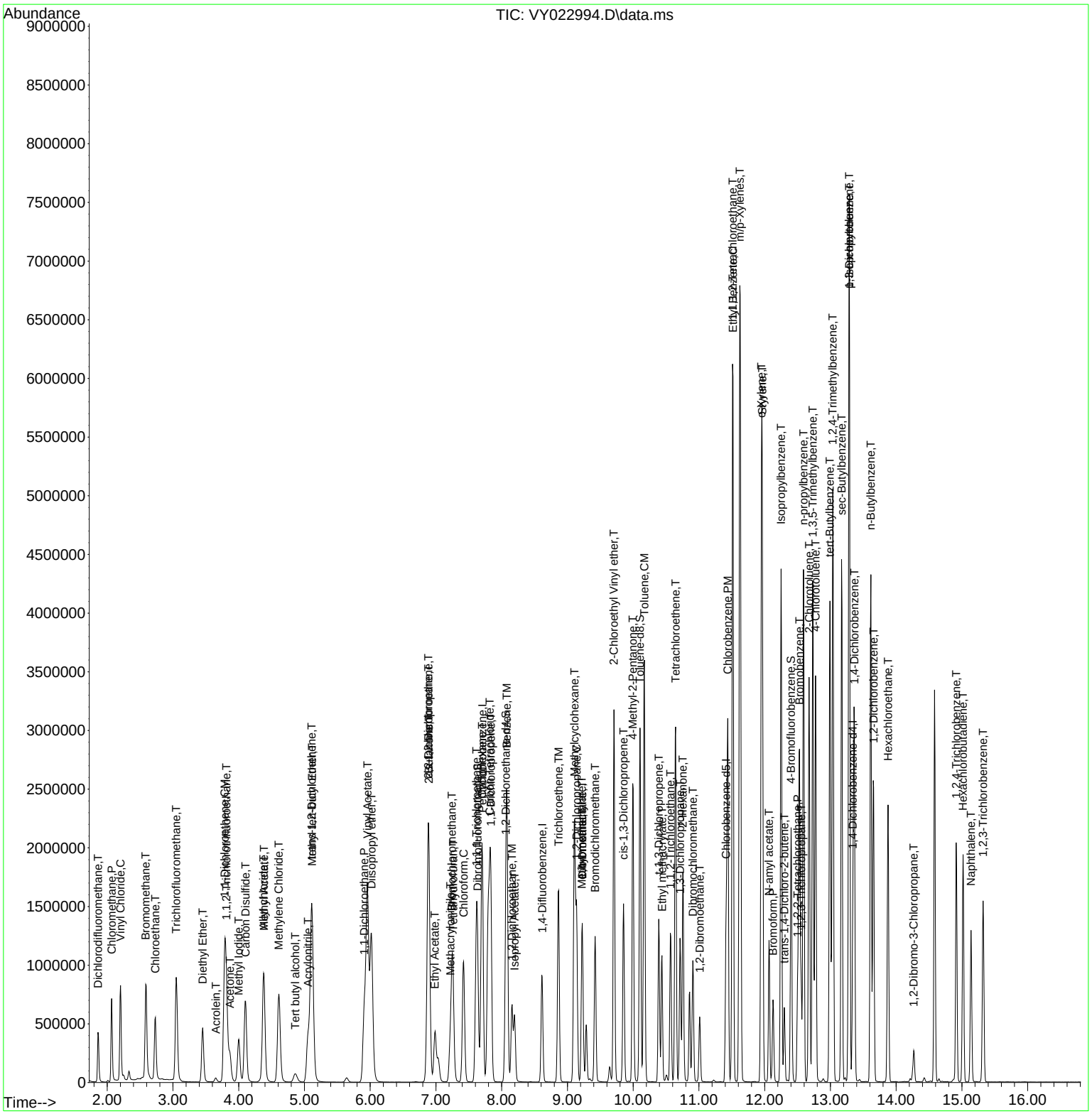
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

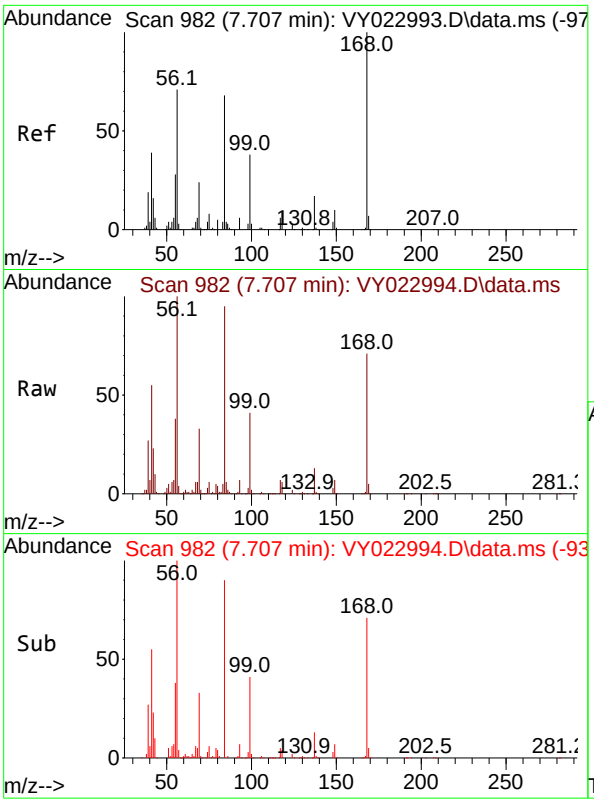
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022994.D
Acq On : 18 Jul 2025 12:27
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Jul 19 01:33:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration



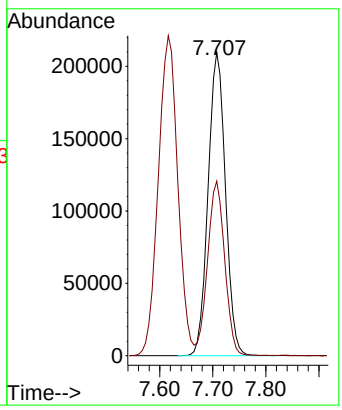


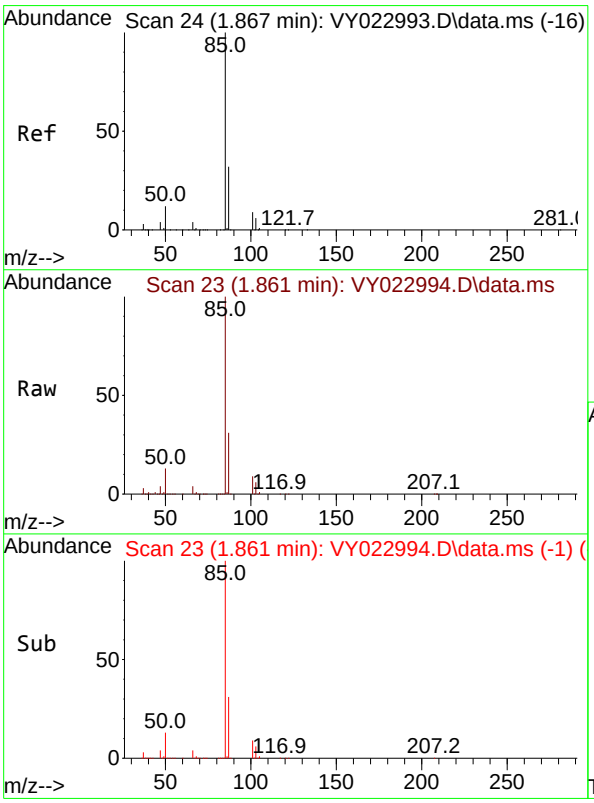
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 475954

Ion	Ratio	Lower	Upper
168	100		
99	57.4	44.4	66.6

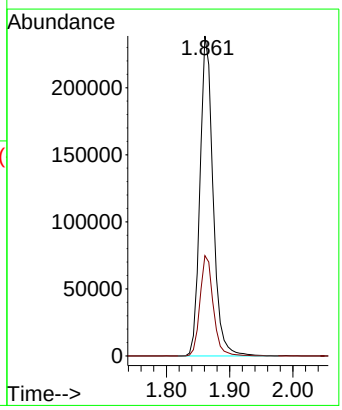


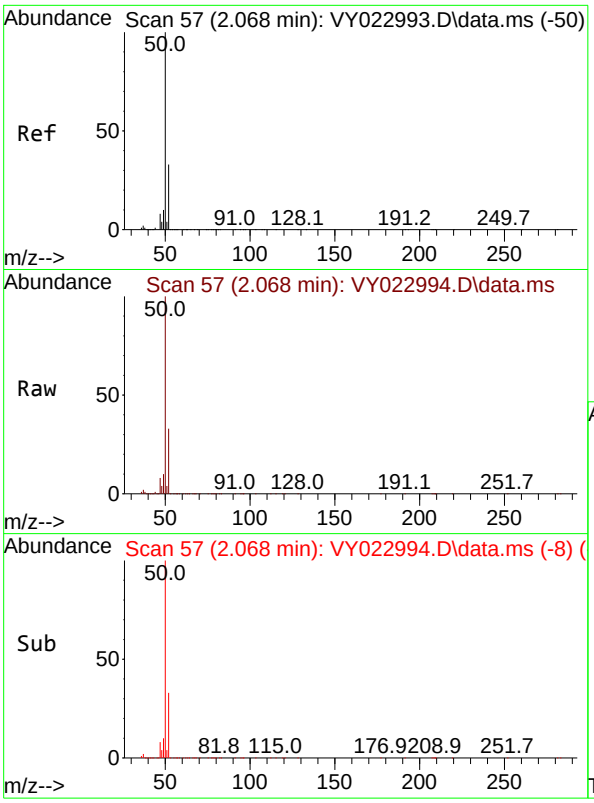


#2
Dichlorodifluoromethane
Concen: 85.103 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 85 Resp: 343933

Ion	Ratio	Lower	Upper
85	100		
87	31.4	16.0	47.9



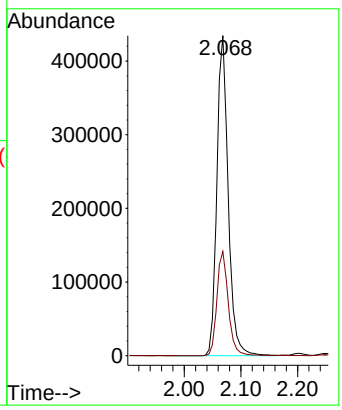


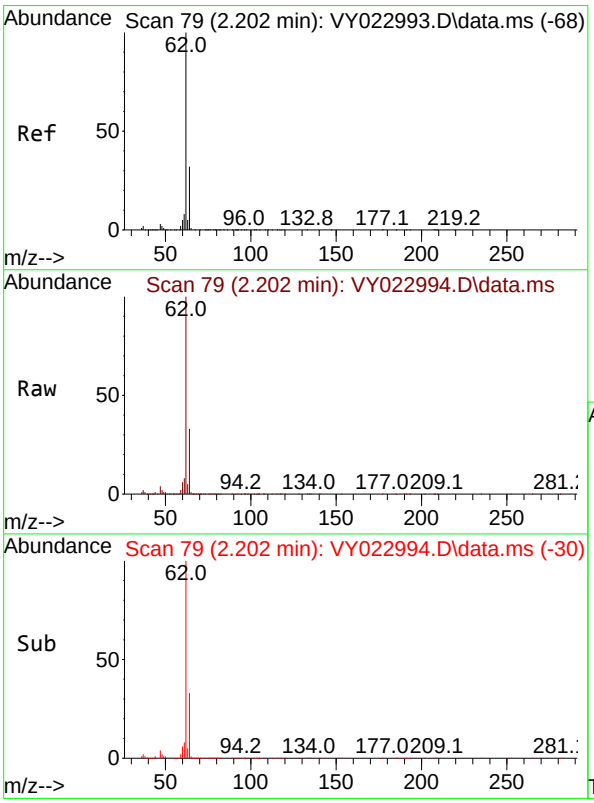
#3
Chloromethane
Concen: 87.486 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 601188

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.6	39.8

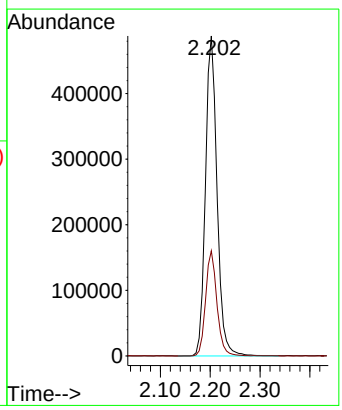


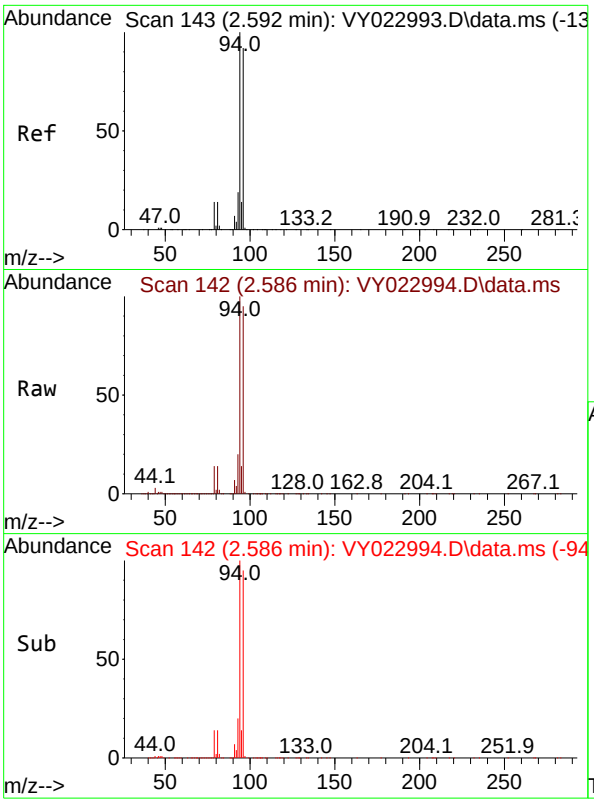


#4
Vinyl Chloride
Concen: 90.253 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 62 Resp: 785743

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.2	37.8



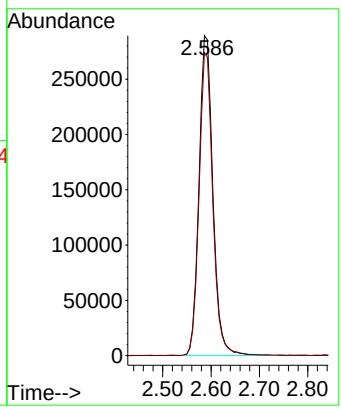


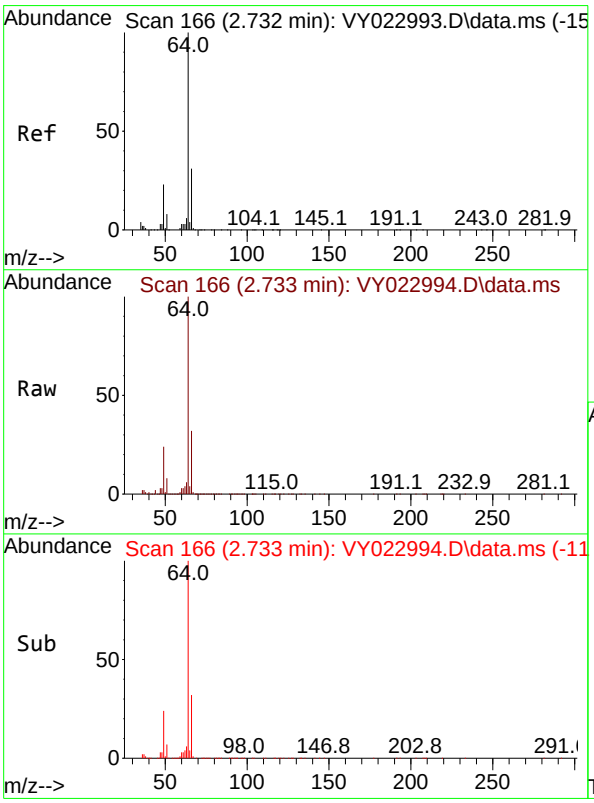
#5
Bromomethane
Concen: 91.932 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 577639

Ion	Ratio	Lower	Upper
94	100		
96	94.7	73.9	110.9

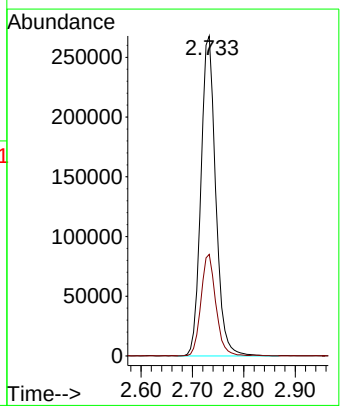


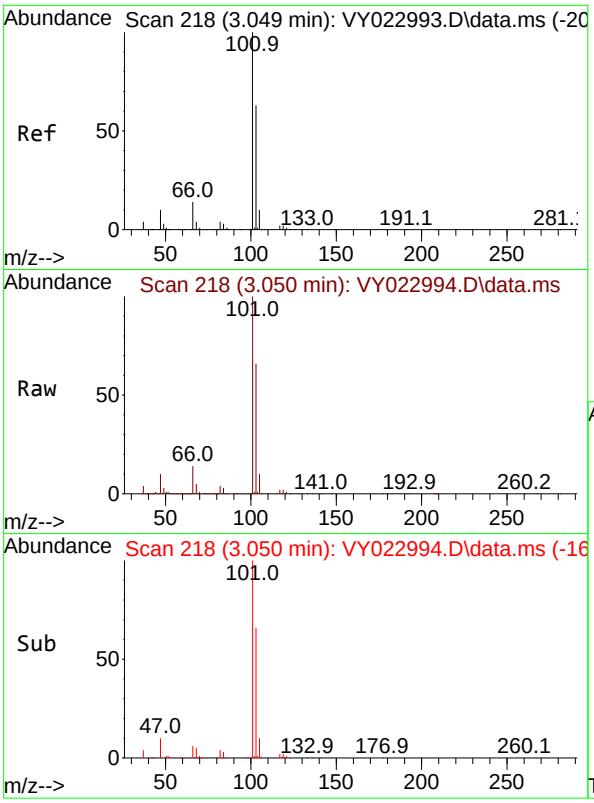


#6
Chloroethane
Concen: 92.133 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 64 Resp: 535701

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.9	37.3



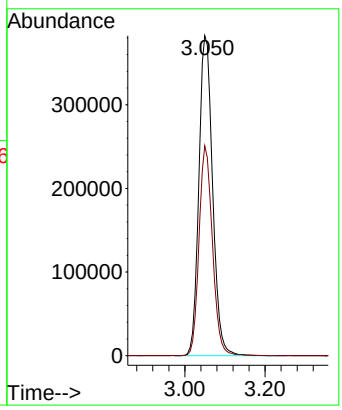


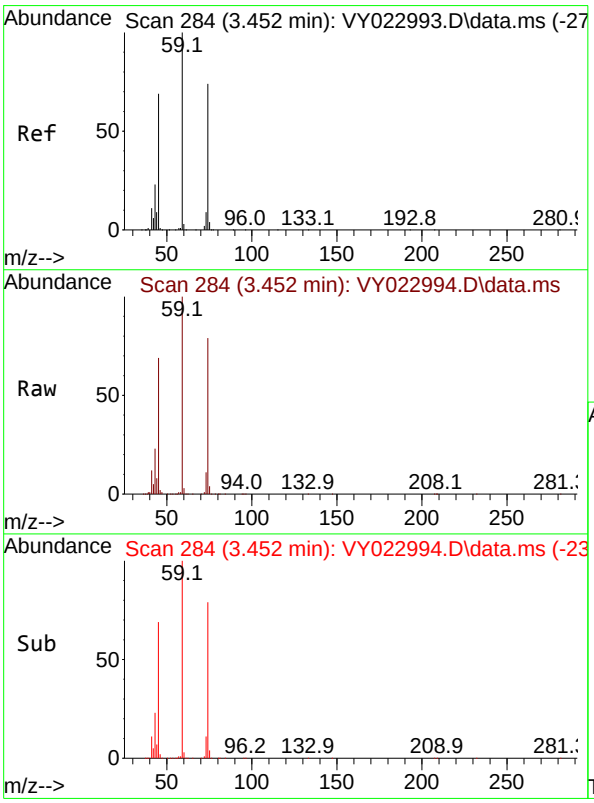
#7
Trichlorofluoromethane
Concen: 89.982 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 909366

Ion	Ratio	Lower	Upper
101	100		
103	65.6	50.7	76.1

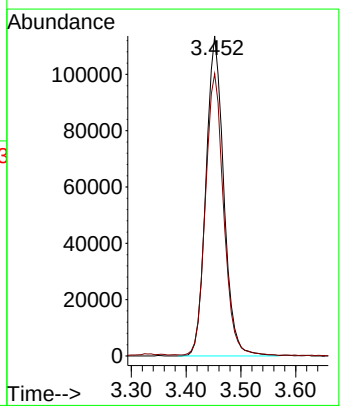


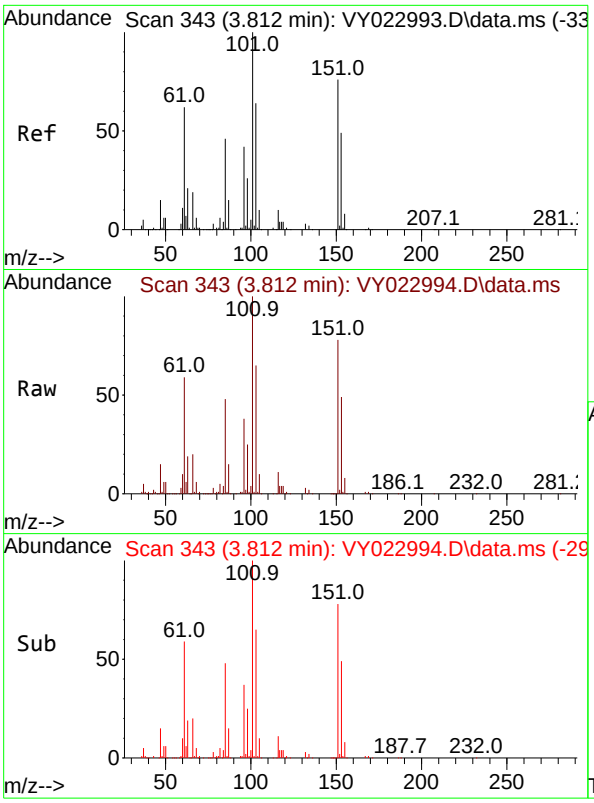


#8
Diethyl Ether
Concen: 96.529 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 74 Resp: 255324

Ion	Ratio	Lower	Upper
74	100		
45	90.0	45.1	135.2



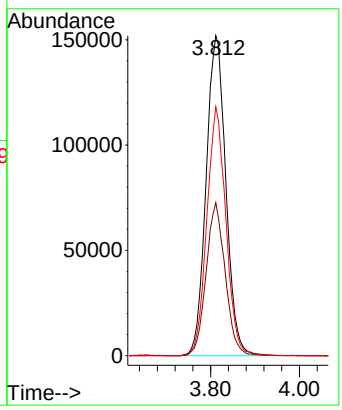


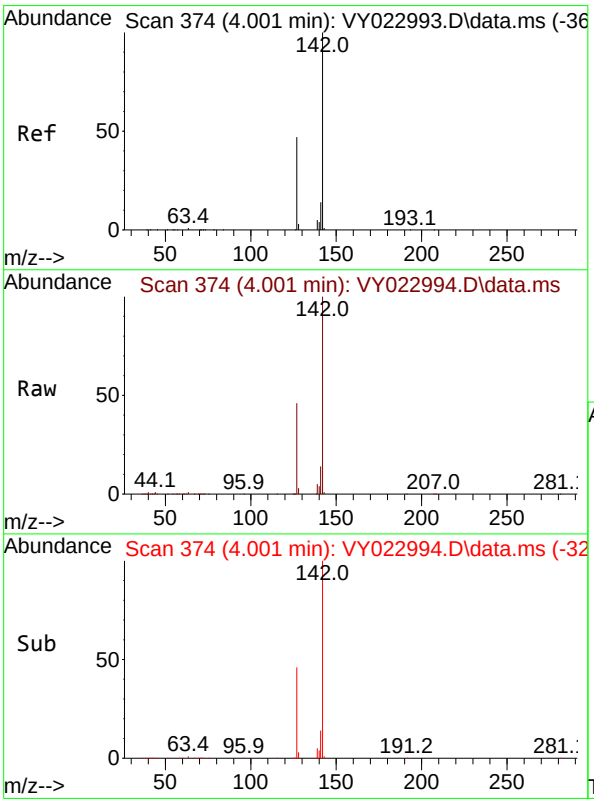
#9
1,1,2-Trichlorotrifluoroethane
Concen: 88.476 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 469718

Ion	Ratio	Lower	Upper
101	100		
85	46.2	37.2	55.8
151	75.0	59.7	89.5

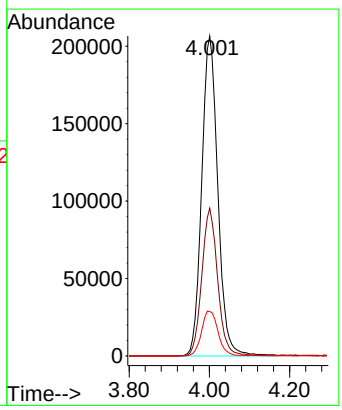


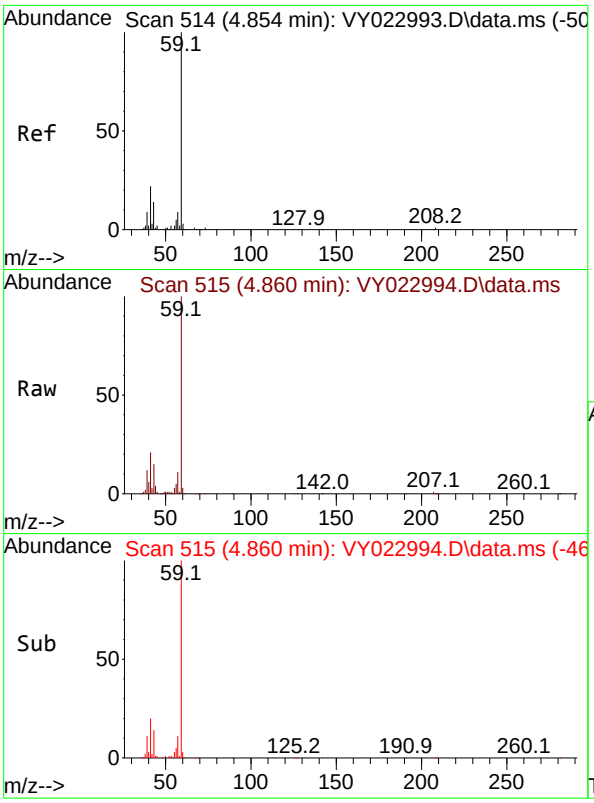


#10
Methyl Iodide
Concen: 104.378 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:142 Resp: 575669

Ion	Ratio	Lower	Upper
142	100		
127	45.5	37.0	55.6
141	14.4	11.4	17.2



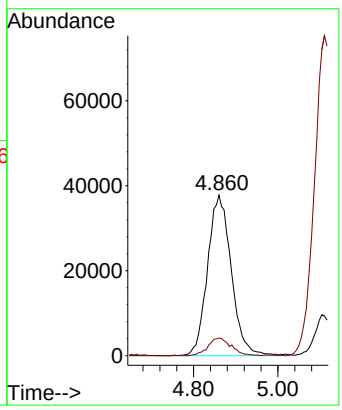


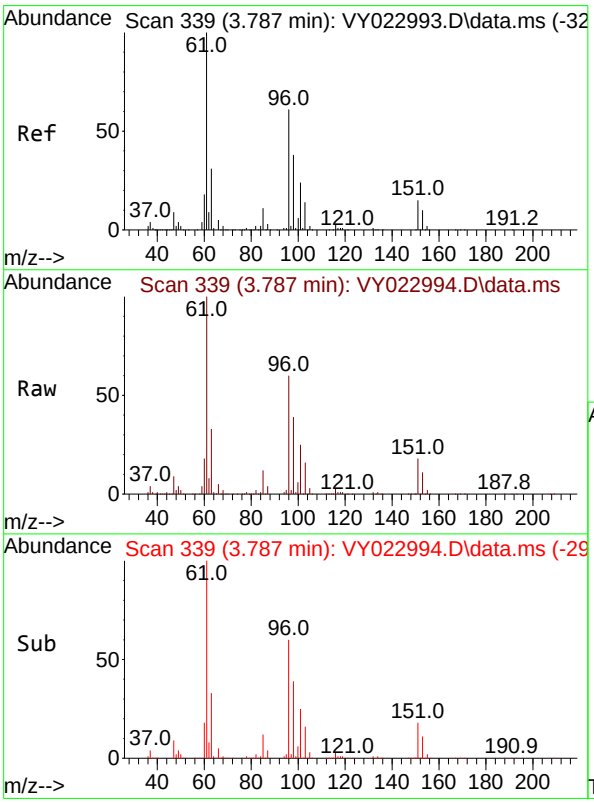
#11
Tert butyl alcohol
Concen: 502.619 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 147261

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.2

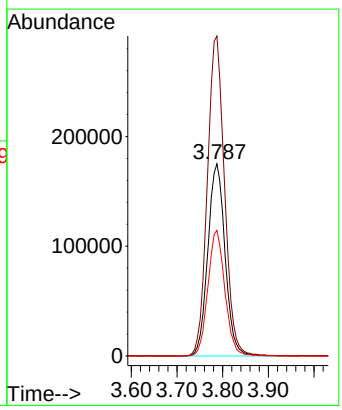


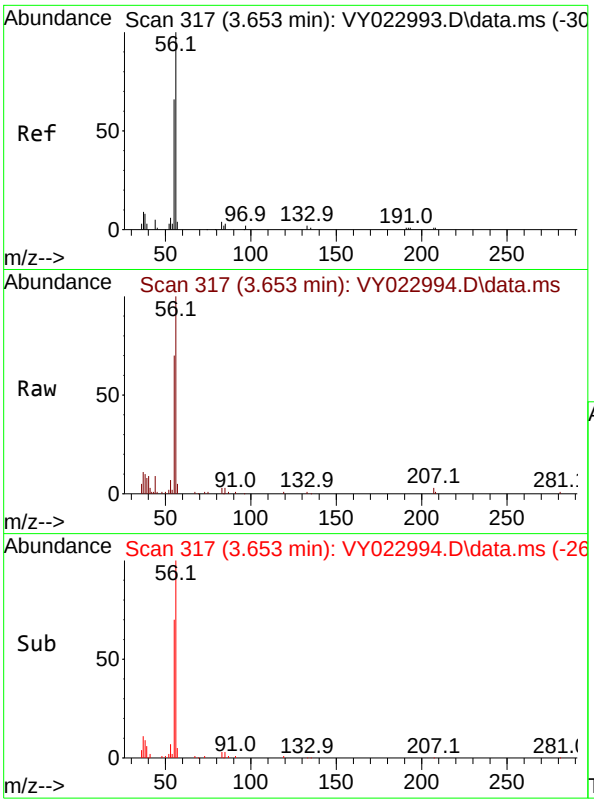


#12
1,1-Dichloroethene
Concen: 90.995 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 96 Resp: 460202

Ion	Ratio	Lower	Upper
96	100		
61	166.4	130.4	195.6
98	65.3	49.6	74.4



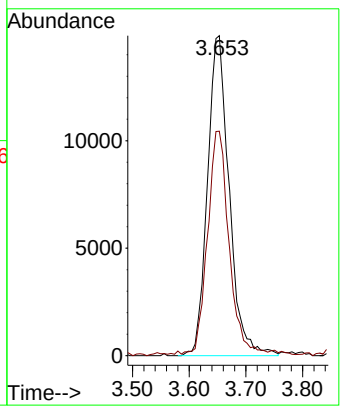


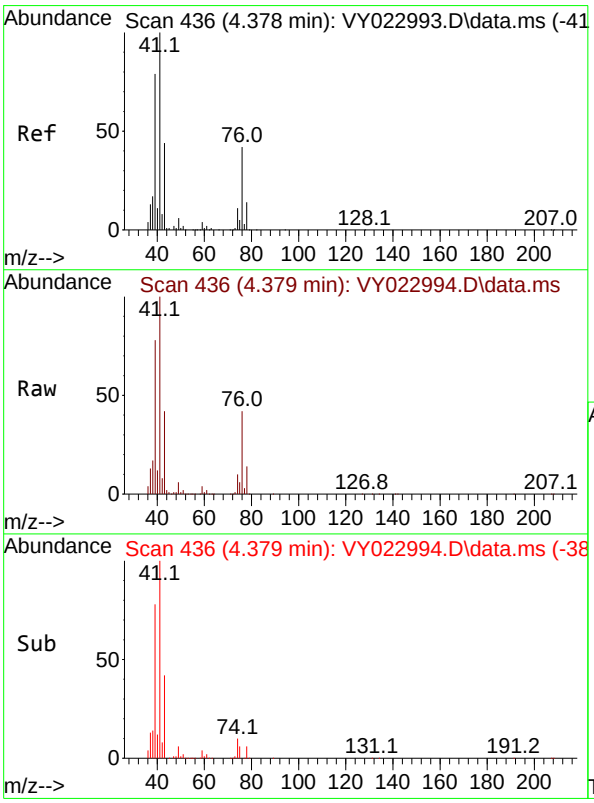
#13
Acrolein
Concen: 298.871 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 39471

Ion	Ratio	Lower	Upper
56	100		
55	68.4	57.8	86.6

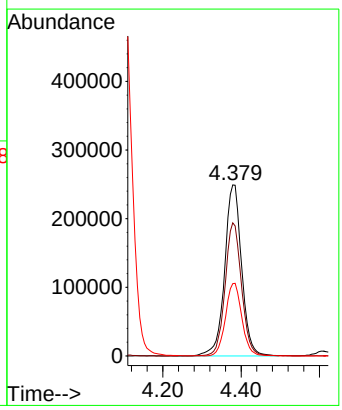


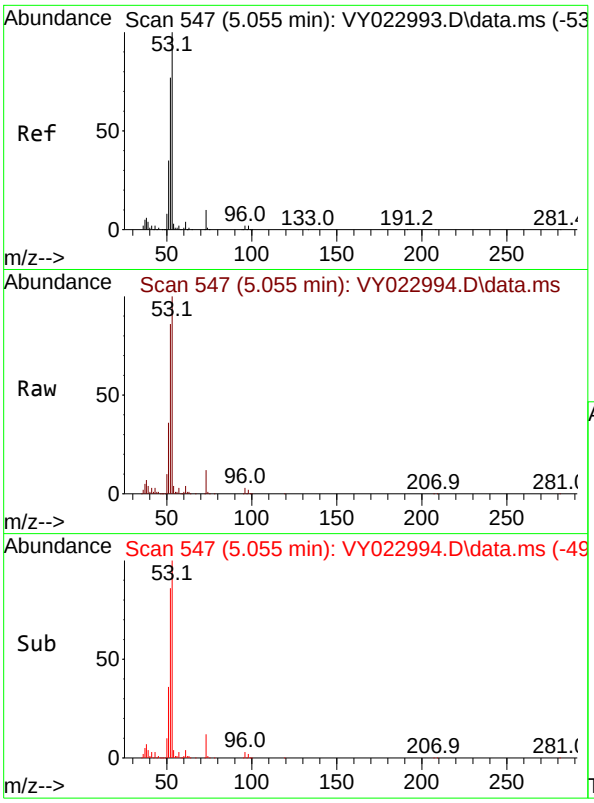


#14
Allyl chloride
Concen: 97.457 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 41 Resp: 750900

Ion	Ratio	Lower	Upper
41	100		
39	75.3	60.1	90.1
76	40.9	32.2	48.4



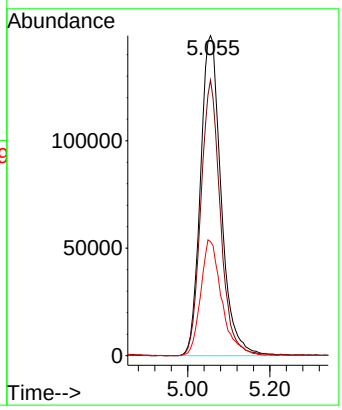


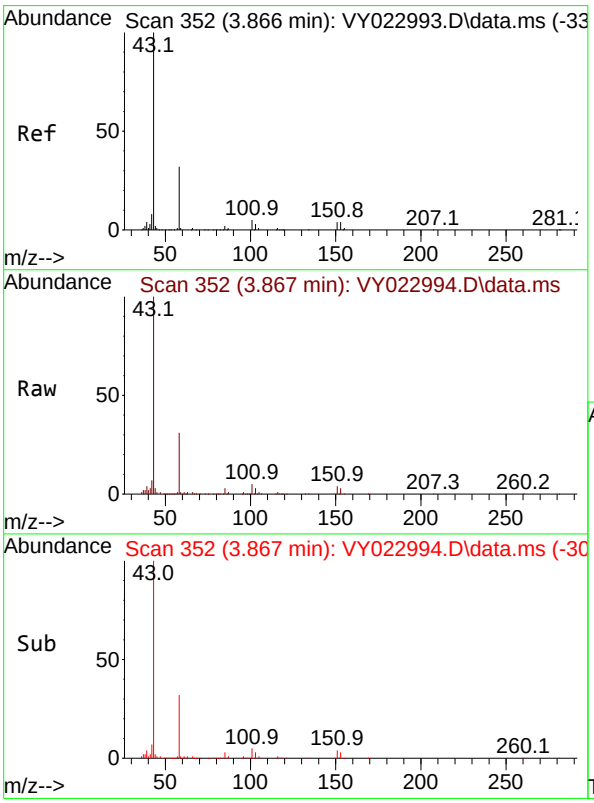
#15
Acrylonitrile
Concen: 519.058 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 520028

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.2	97.8
51	37.0	30.3	45.5

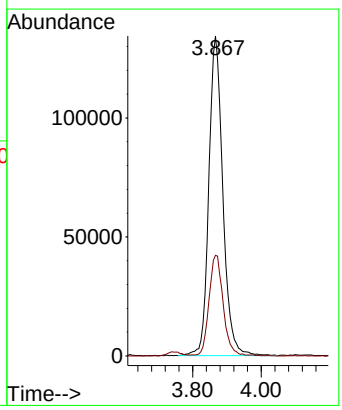


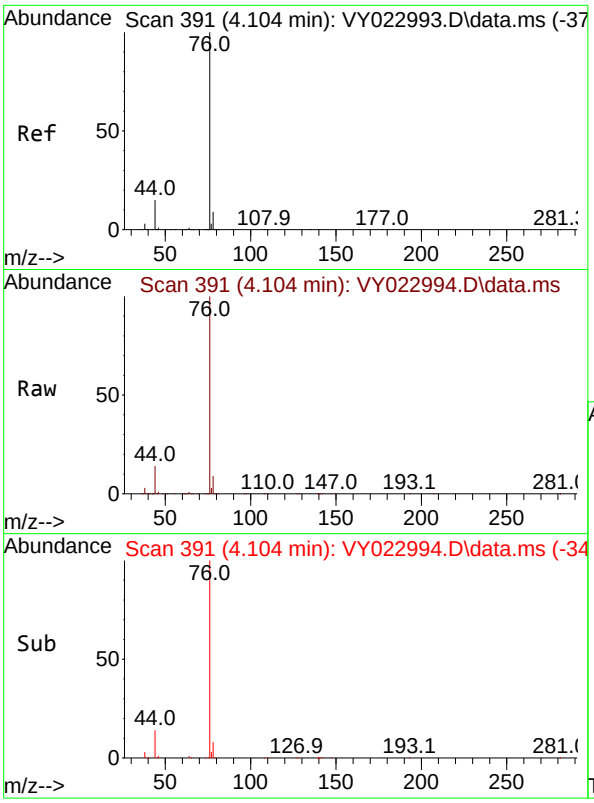


#16
Acetone
Concen: 437.355 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 381982

Ion	Ratio	Lower	Upper
43	100		
58	31.5	26.2	39.4



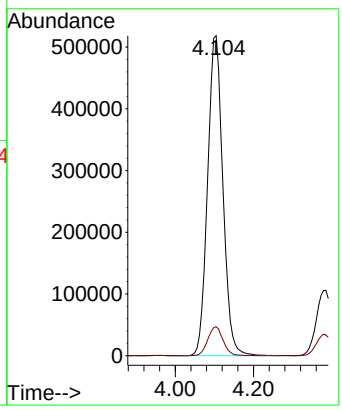


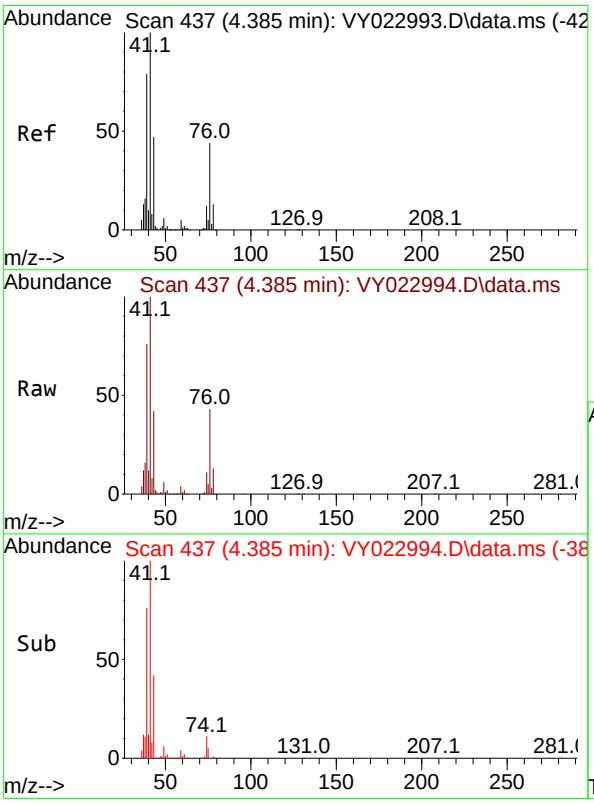
#17
Carbon Disulfide
Concen: 91.330 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 1399893

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

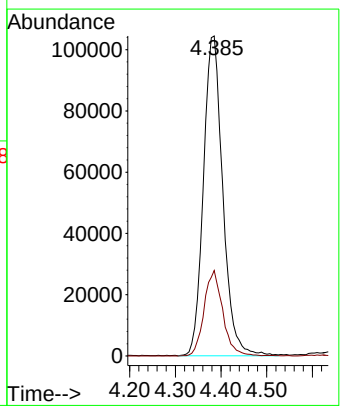


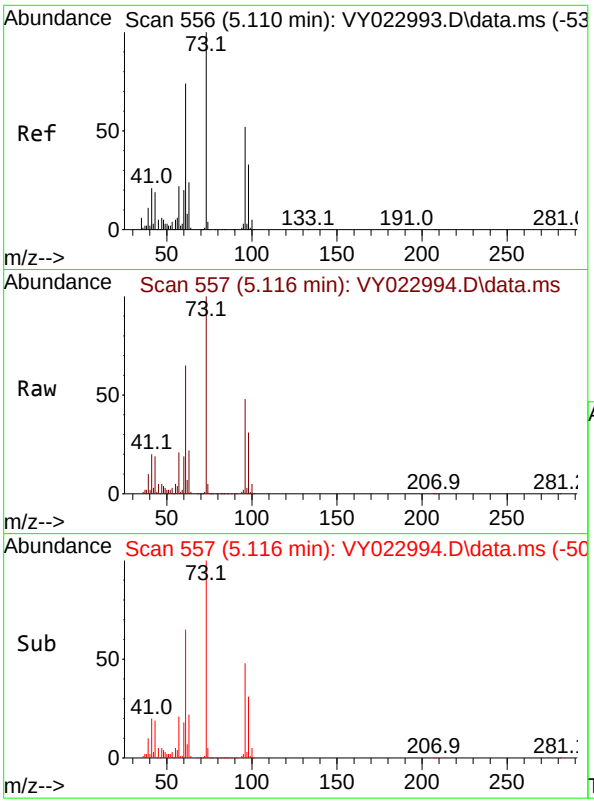


#18
Methyl Acetate
Concen: 104.049 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 307662

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.1	30.1



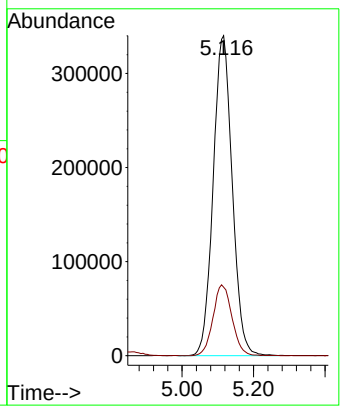


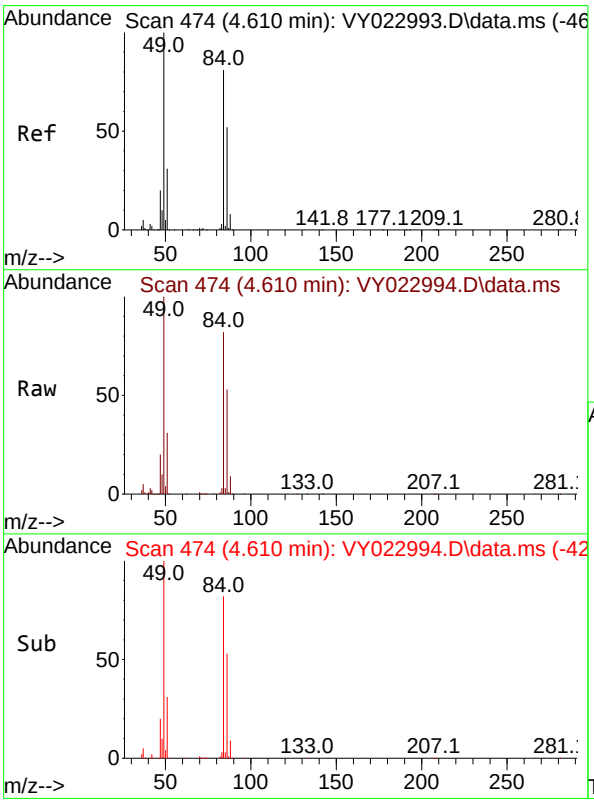
#19
Methyl tert-butyl Ether
Concen: 103.613 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 1256898

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.4	26.2

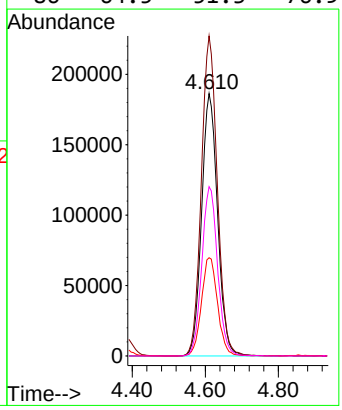


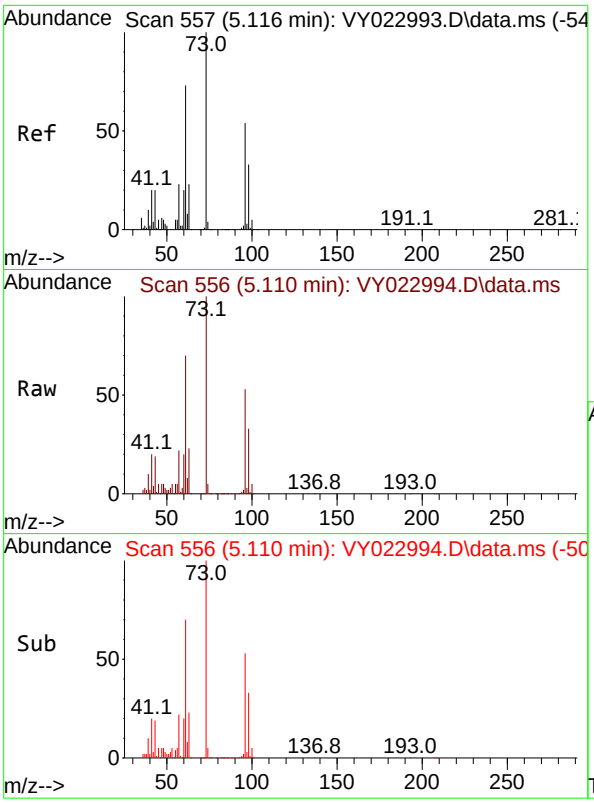


#20
Methylene Chloride
Concen: 100.432 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 84 Resp: 565355

Ion	Ratio	Lower	Upper
84	100		
49	121.9	98.2	147.4
51	37.5	30.5	45.7
86	64.5	51.3	76.9



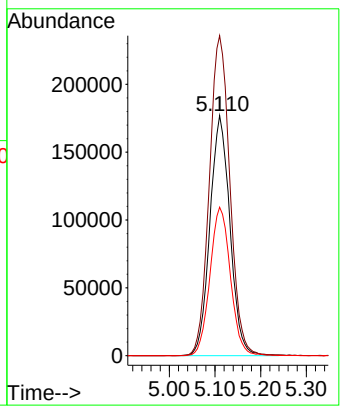


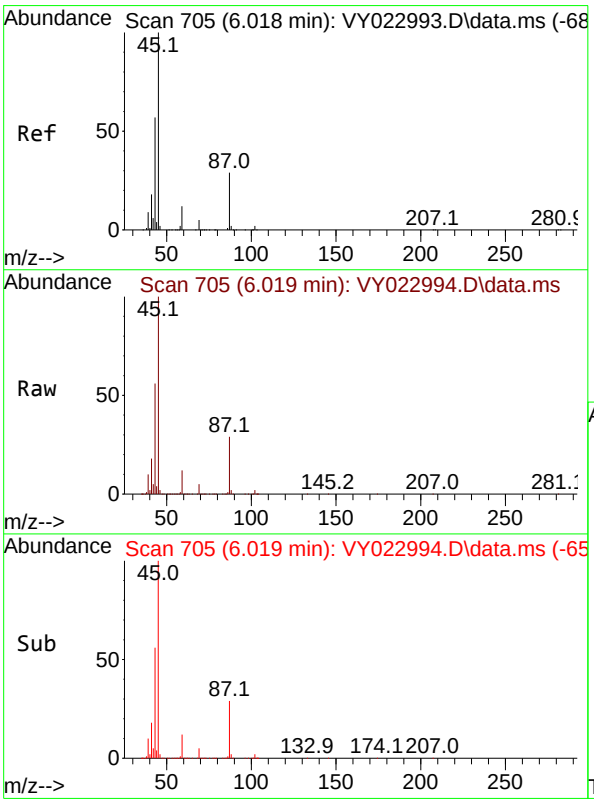
#21
trans-1,2-Dichloroethene
Concen: 95.878 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 539769

Ion	Ratio	Lower	Upper
96	100		
61	133.2	107.4	161.2
98	61.8	49.3	73.9

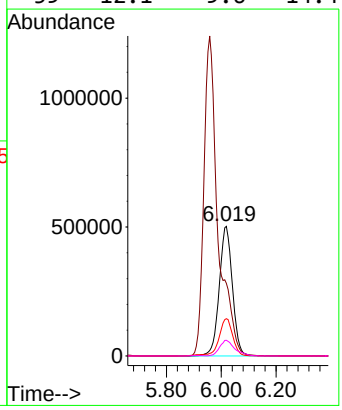


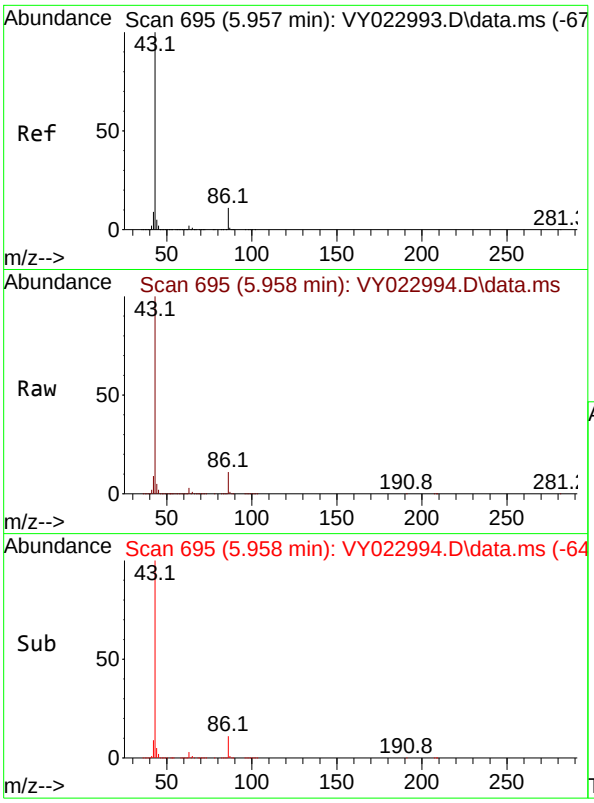


#22
Diisopropyl ether
Concen: 102.426 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 45 Resp: 1674257

Ion	Ratio	Lower	Upper
45	100		
43	56.0	45.3	67.9
87	28.8	23.3	34.9
59	12.1	9.6	14.4



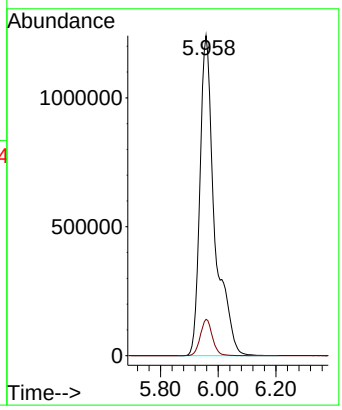


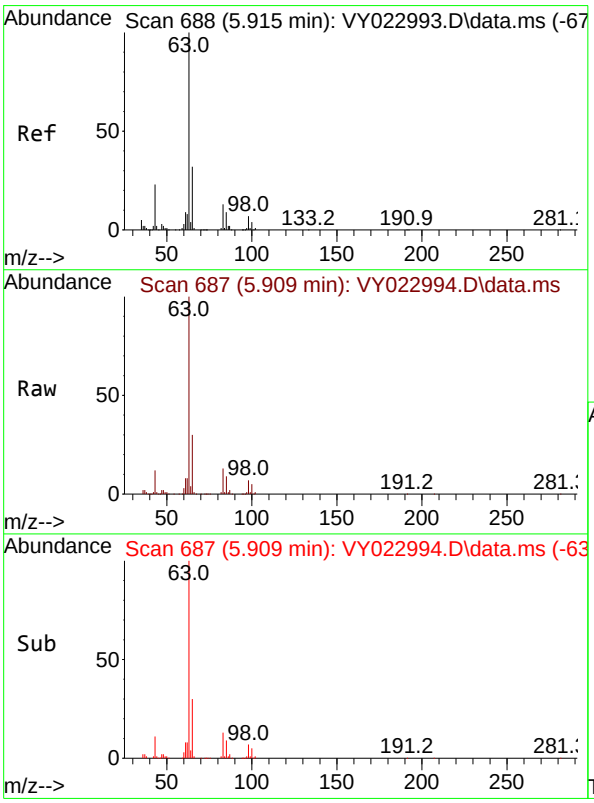
#23
Vinyl Acetate
Concen: 536.099 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 4415435

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.0	13.4

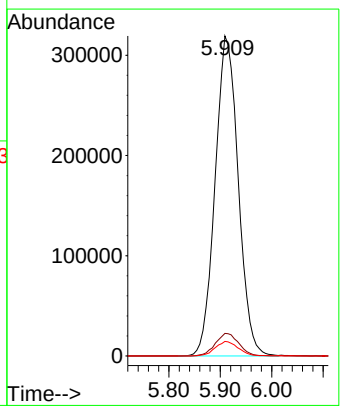


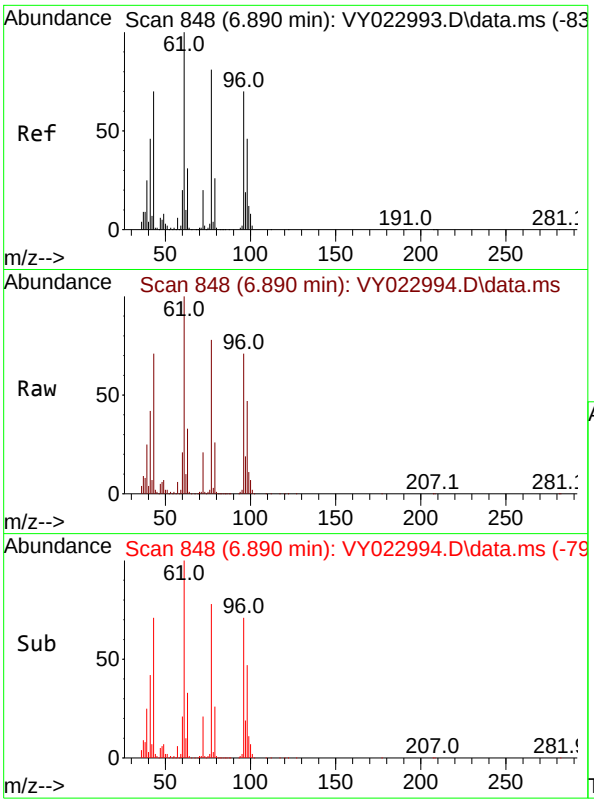


#24
1,1-Dichloroethane
Concen: 97.216 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 63 Resp: 998111

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.5
100	4.6	2.1	6.2



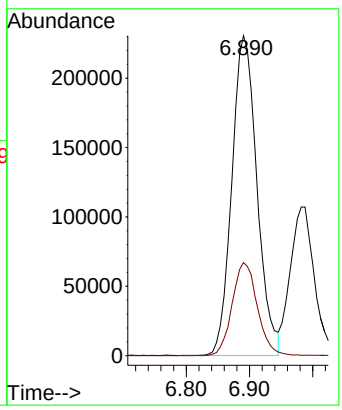


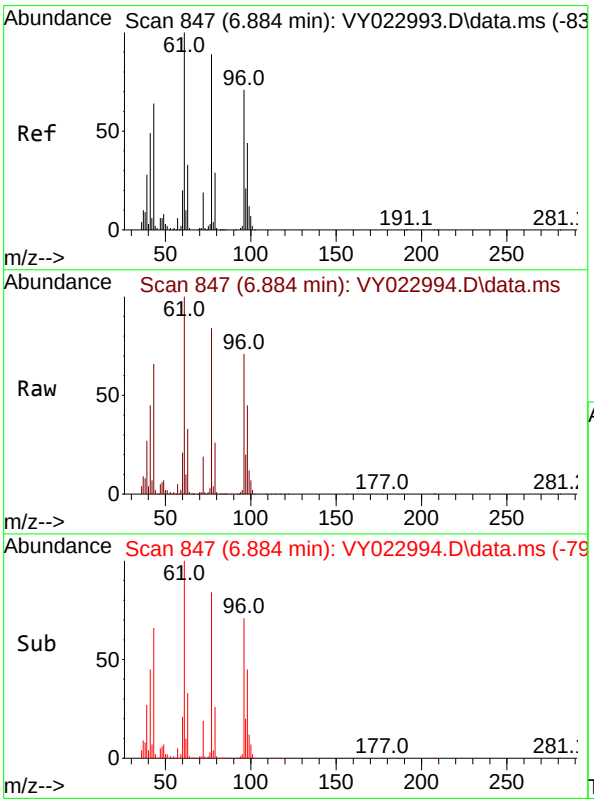
#25
2-Butanone
Concen: 508.682 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 637358

Ion	Ratio	Lower	Upper
43	100		
72	29.1	22.9	34.3

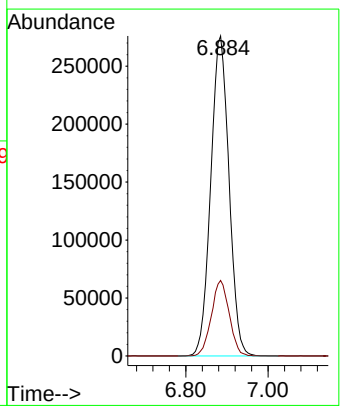


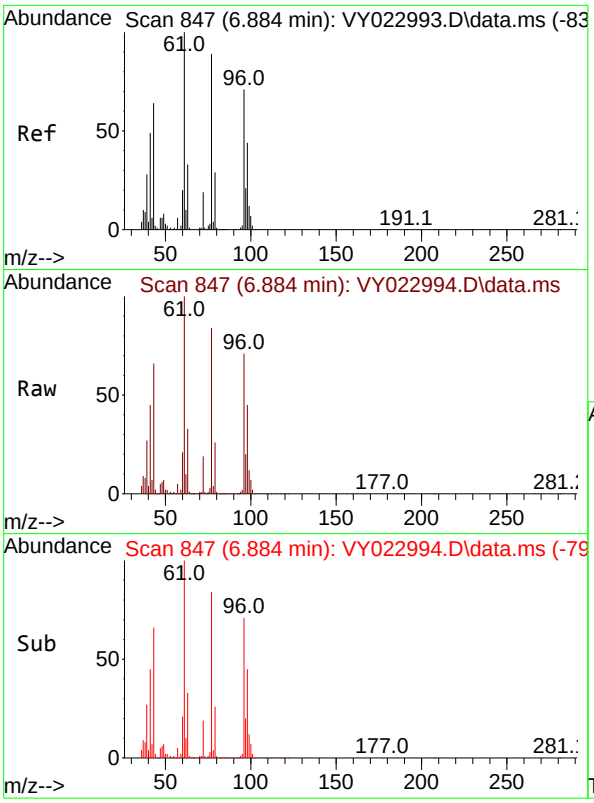


#26
2,2-Dichloropropane
Concen: 94.504 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 77 Resp: 850357

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.3	33.9



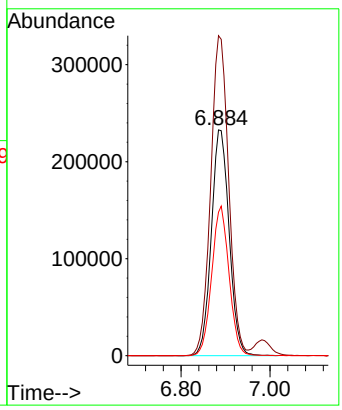


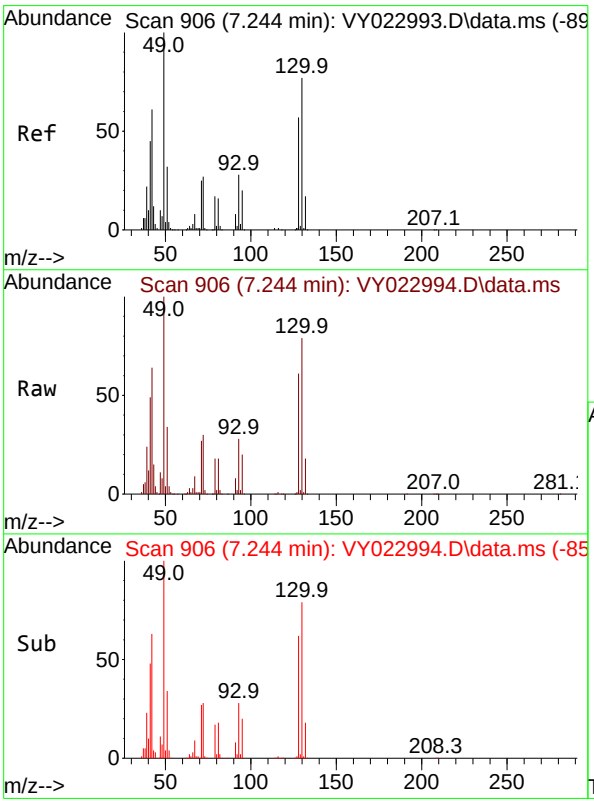
#27
cis-1,2-Dichloroethene
Concen: 99.748 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 647185

Ion	Ratio	Lower	Upper
96	100		
61	143.5	0.0	286.2
98	64.5	0.0	127.4

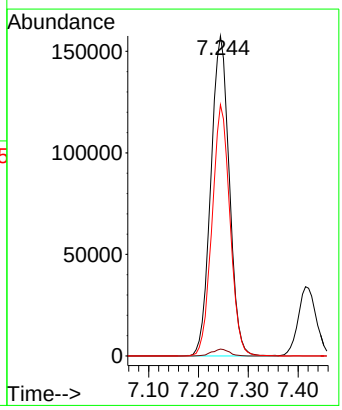


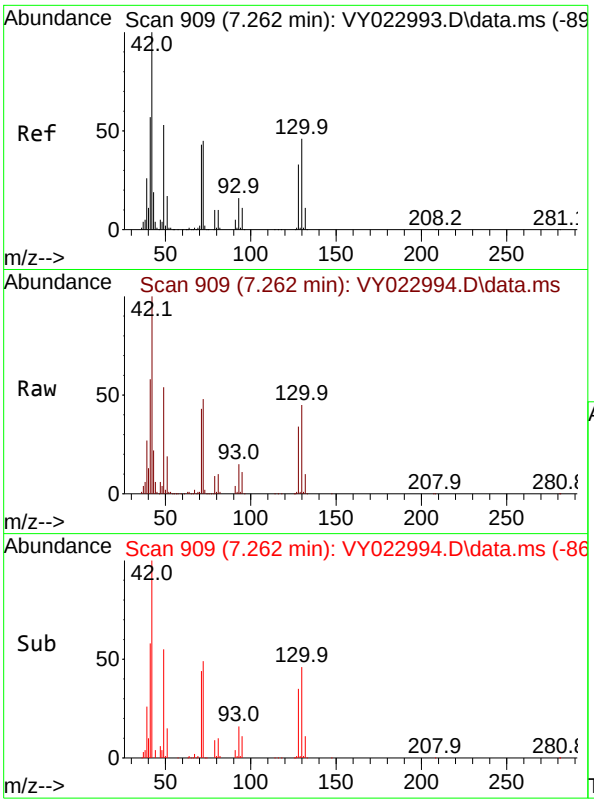


#28
Bromochloromethane
Concen: 101.639 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 49 Resp: 404739

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	76.3	61.8	92.8



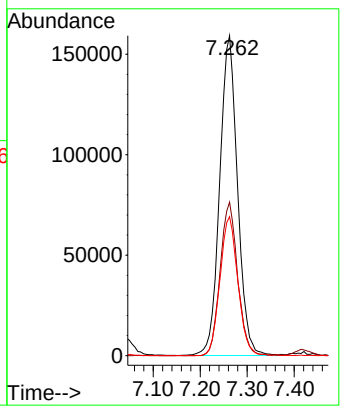


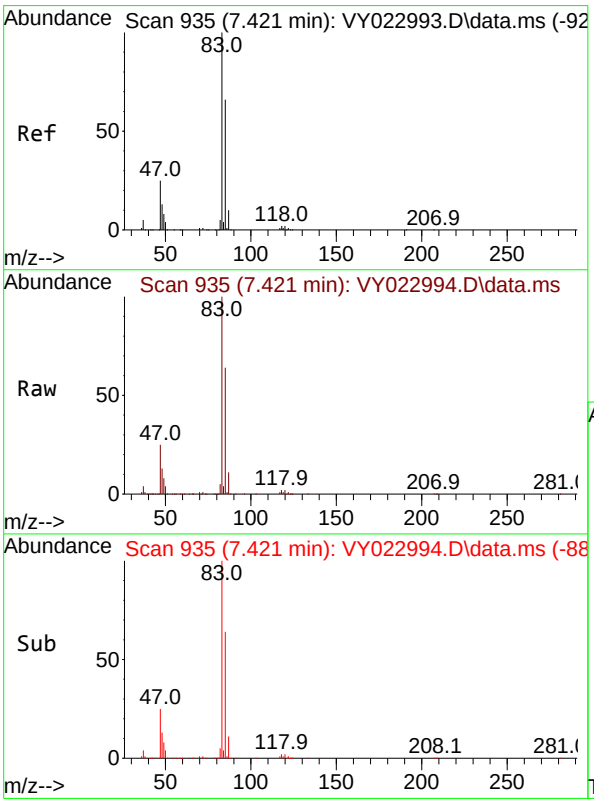
#29
Tetrahydrofuran
Concen: 529.354 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 419926

Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.5	56.3
71	43.6	34.2	51.4

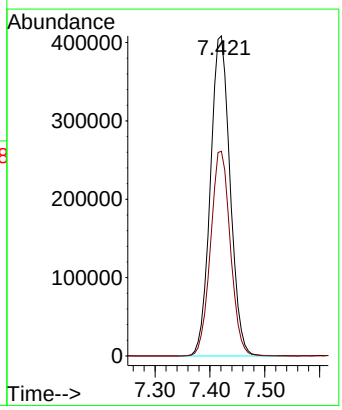


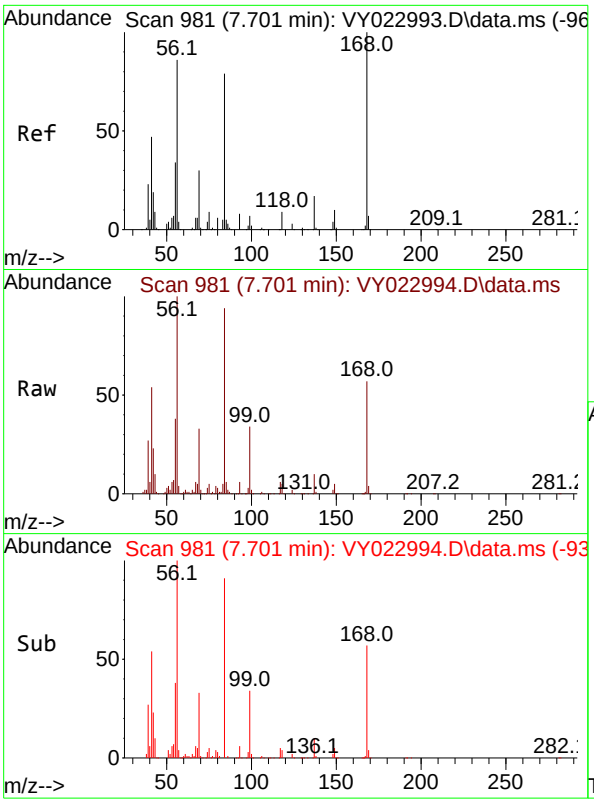


#30
Chloroform
Concen: 98.332 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 83 Resp: 1018437

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	78.8



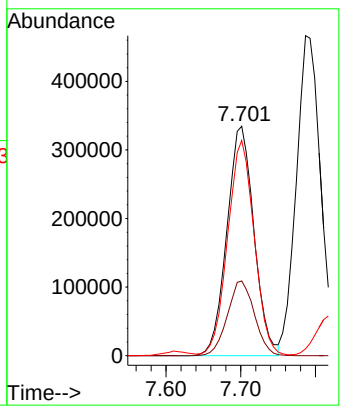


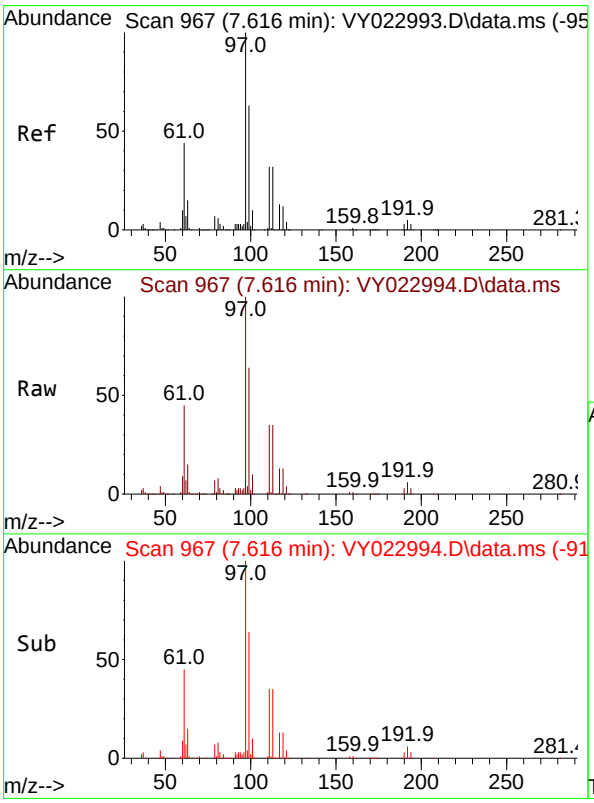
#31
Cyclohexane
Concen: 88.057 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 844759

Ion	Ratio	Lower	Upper
56	100		
69	32.5	28.1	42.1
84	92.2	73.5	110.3

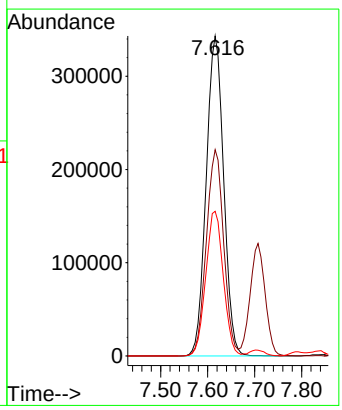


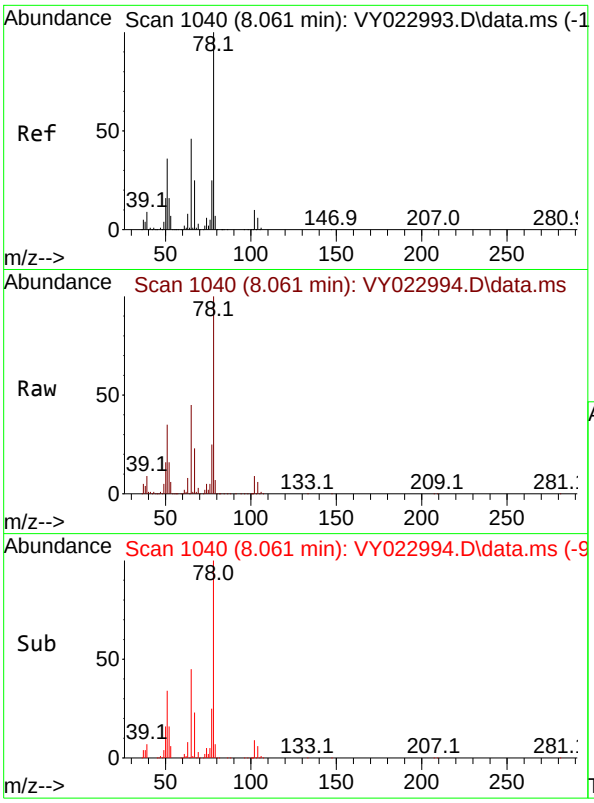


#32
1,1,1-Trichloroethane
Concen: 94.120 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 97 Resp: 884489

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.1	76.7
61	45.5	36.1	54.1



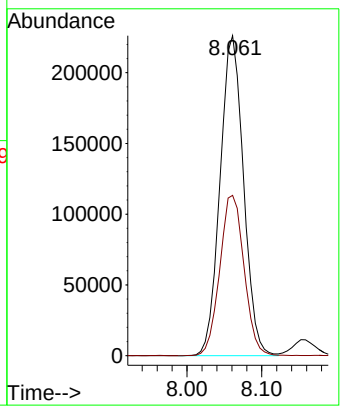


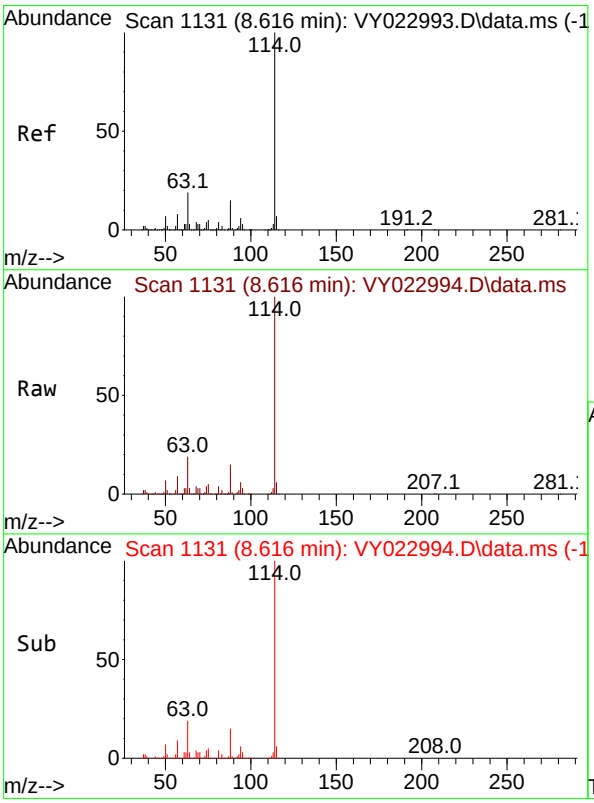
#33
1,2-Dichloroethane-d4
Concen: 102.513 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 493933

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	107.4

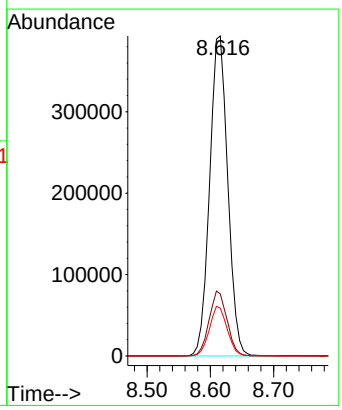


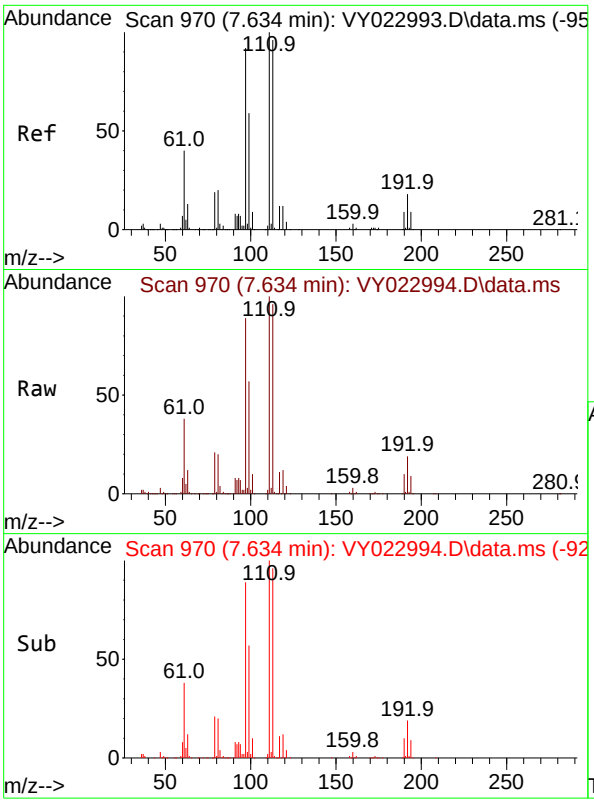


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:114 Resp: 780876

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.8
88	15.0	0.0	30.2



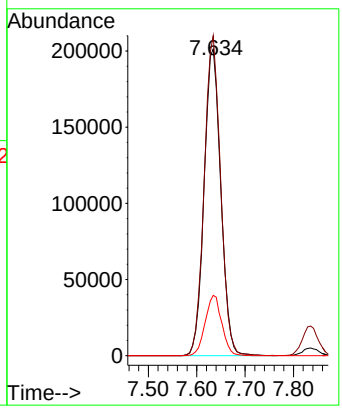


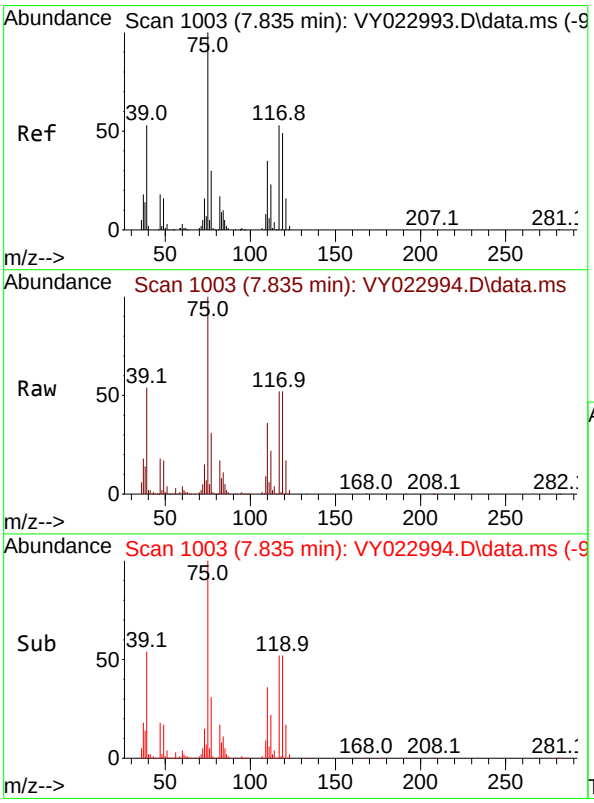
#35
Dibromofluoromethane
Concen: 97.440 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 482657

Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.2	124.8
192	19.5	15.3	22.9

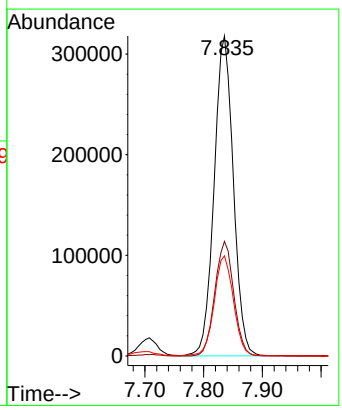


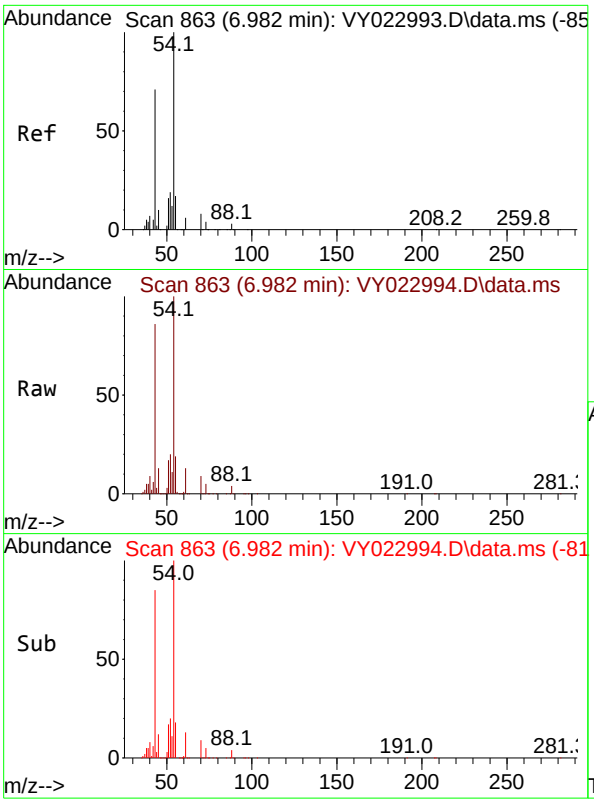


#36
1,1-Dichloropropene
Concen: 92.565 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 722234

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.3	51.9
77	31.4	24.6	37.0



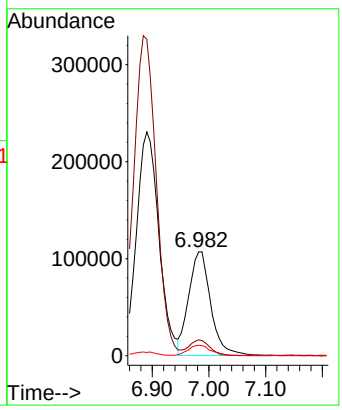


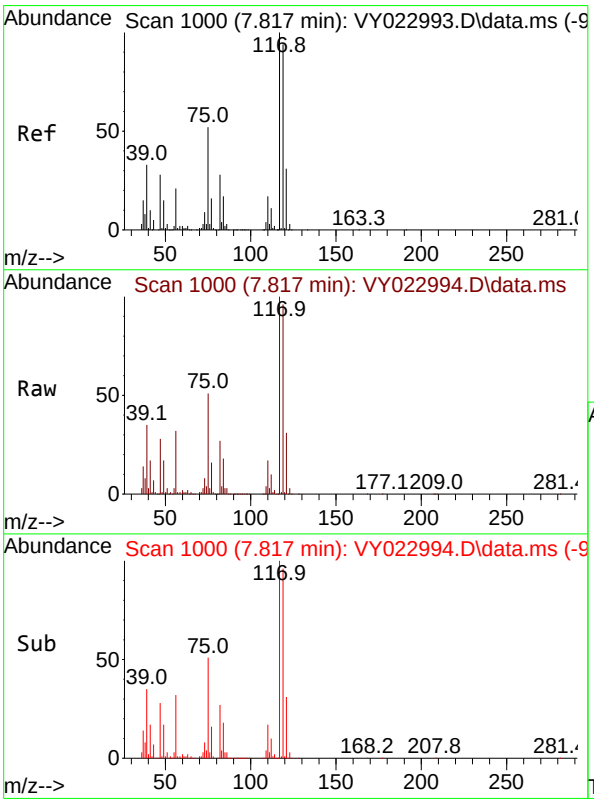
#37
Ethyl Acetate
Concen: 99.541 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 288448

Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	10.3	8.5	12.7

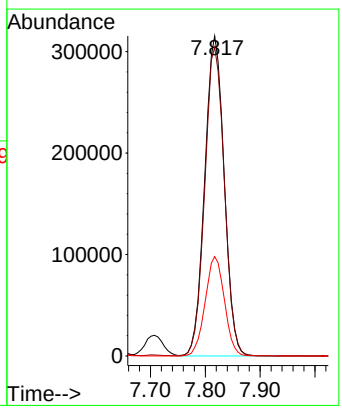


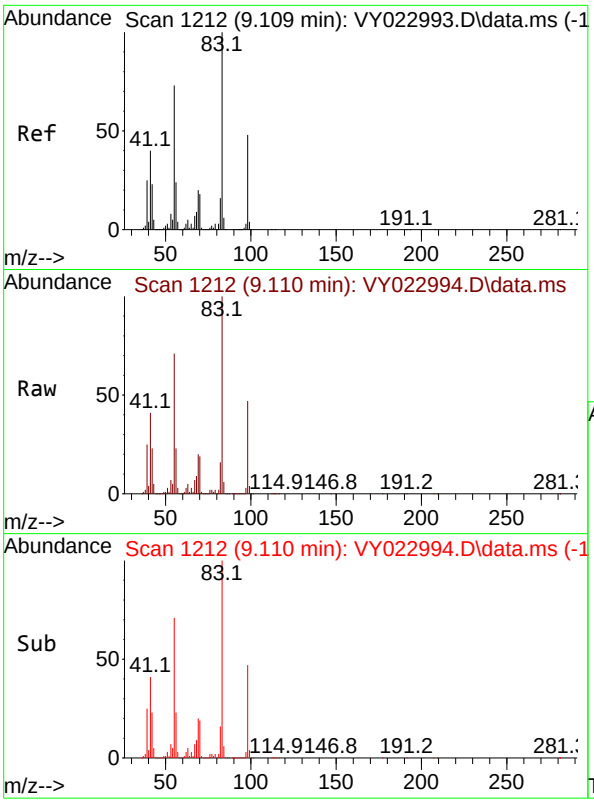


#38
Carbon Tetrachloride
Concen: 91.791 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:117 Resp: 778082

Ion	Ratio	Lower	Upper
117	100		
119	96.4	74.9	112.3
121	31.0	24.6	37.0



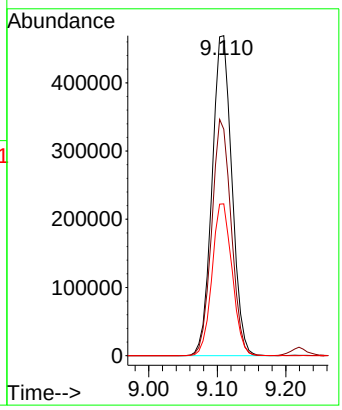


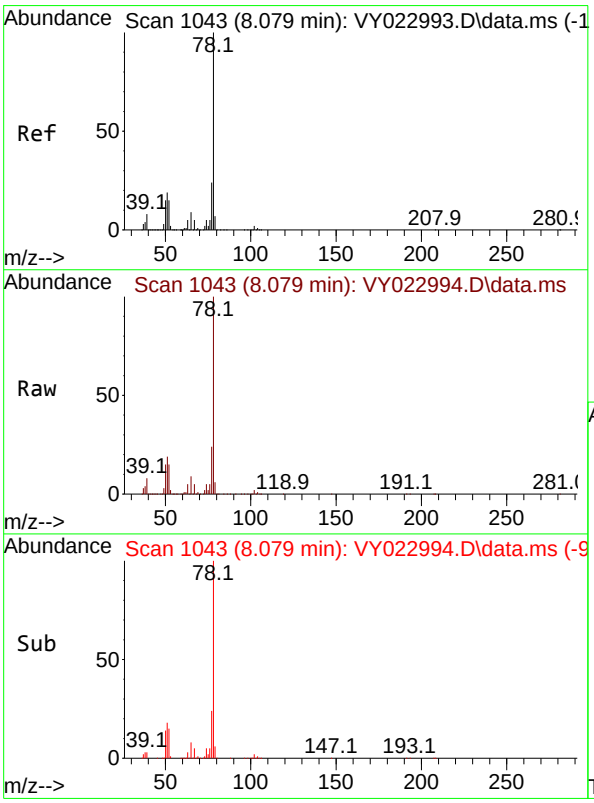
#39
Methylcyclohexane
Concen: 93.389 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 943130

Ion	Ratio	Lower	Upper
83	100		
55	70.7	58.1	87.1
98	47.4	38.5	57.7

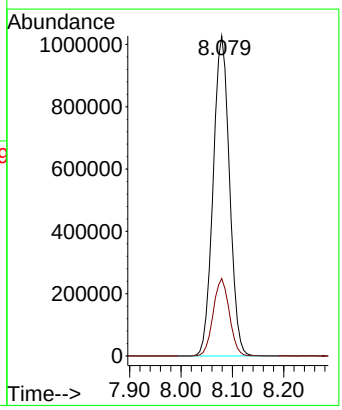


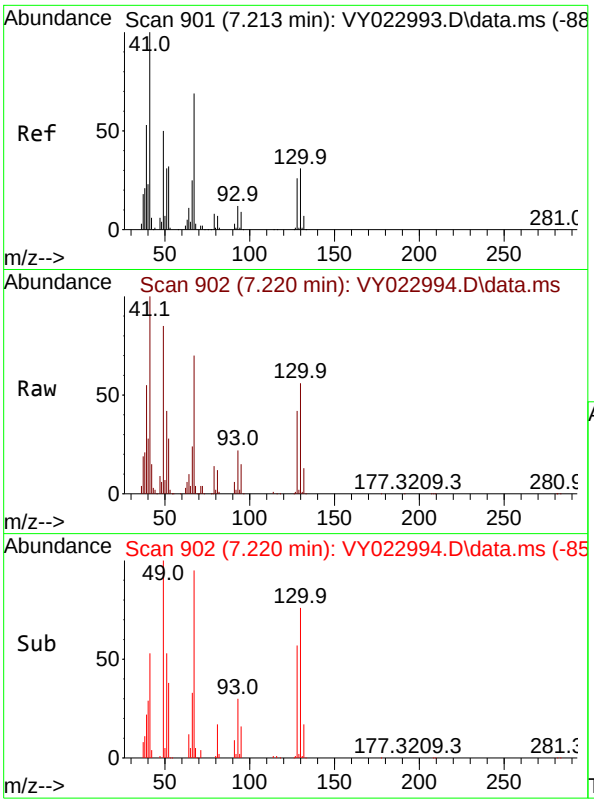


#40
Benzene
Concen: 96.608 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 78 Resp: 2269537

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4



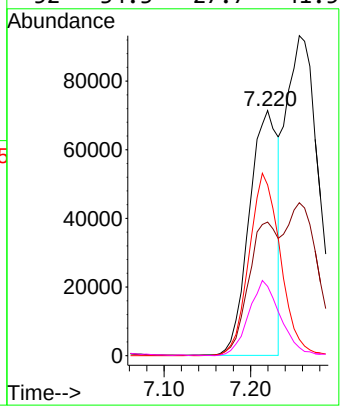


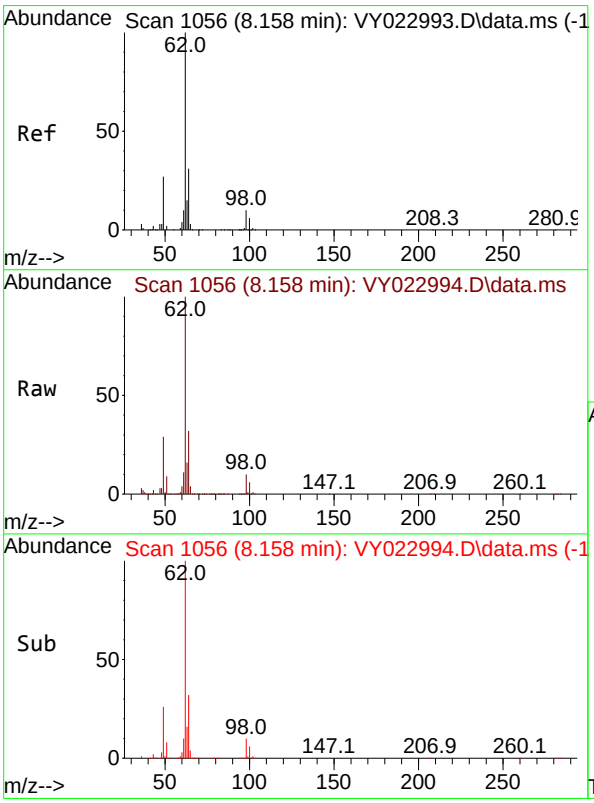
#41
Methacrylonitrile
Concen: 107.489 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 164406

Ion	Ratio	Lower	Upper
41	100		
39	55.5	50.0	75.0
67	81.6	65.4	98.2
52	34.3	27.7	41.5

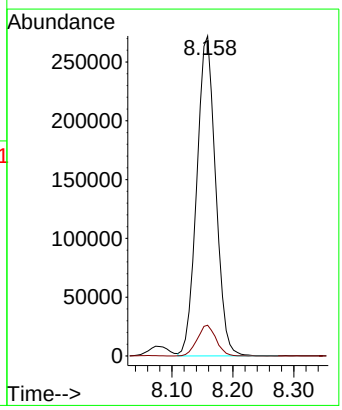


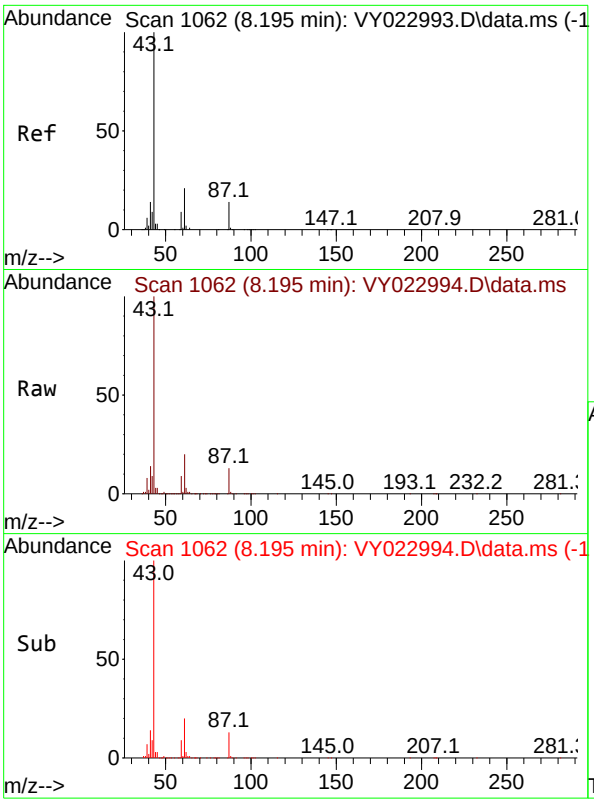


#42
1,2-Dichloroethane
Concen: 100.148 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 62 Resp: 585330

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.0



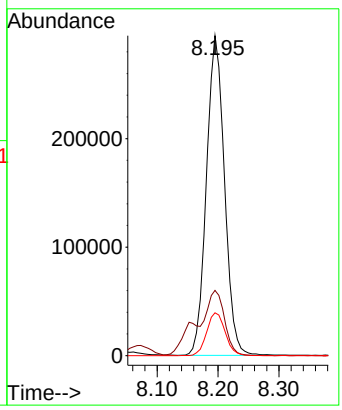


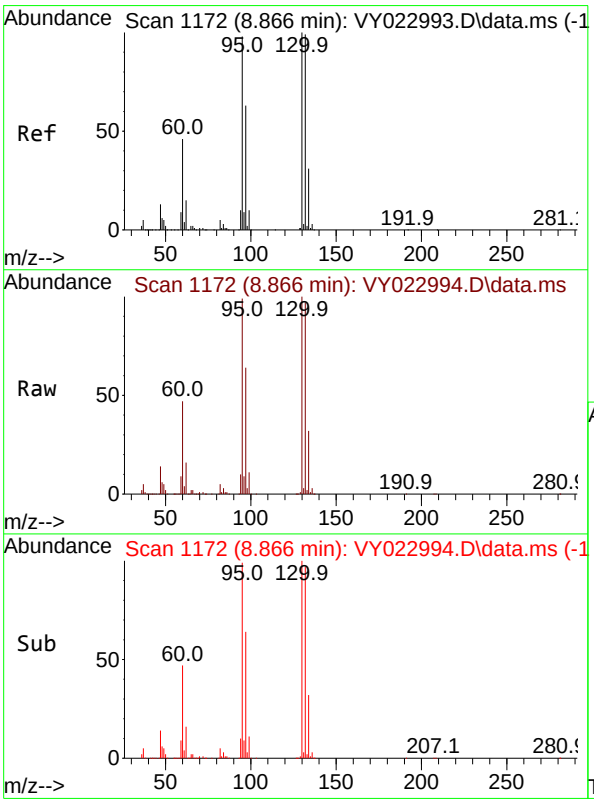
#43
Isopropyl Acetate
Concen: 105.586 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 607757

Ion	Ratio	Lower	Upper
43	100		
61	20.5	25.0	37.4#
87	13.8	11.1	16.7

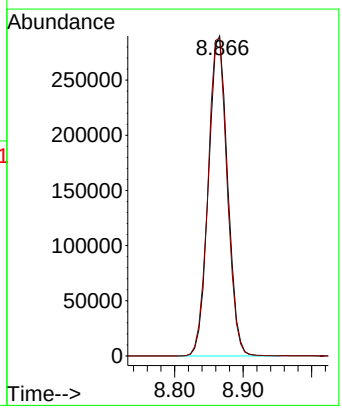


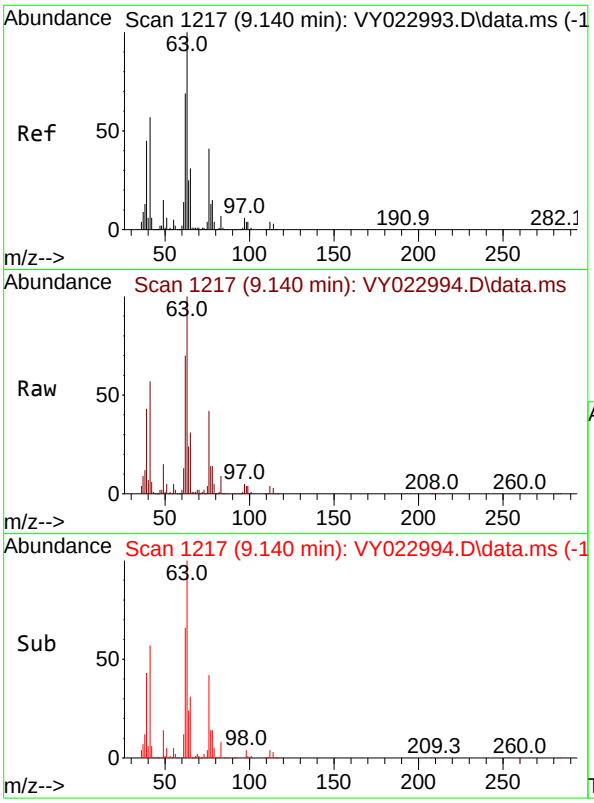


#44
Trichloroethene
Concen: 93.331 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:130 Resp: 563155

Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	195.8



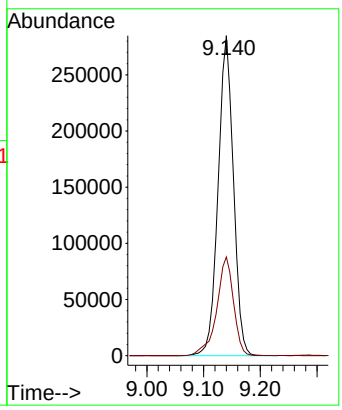


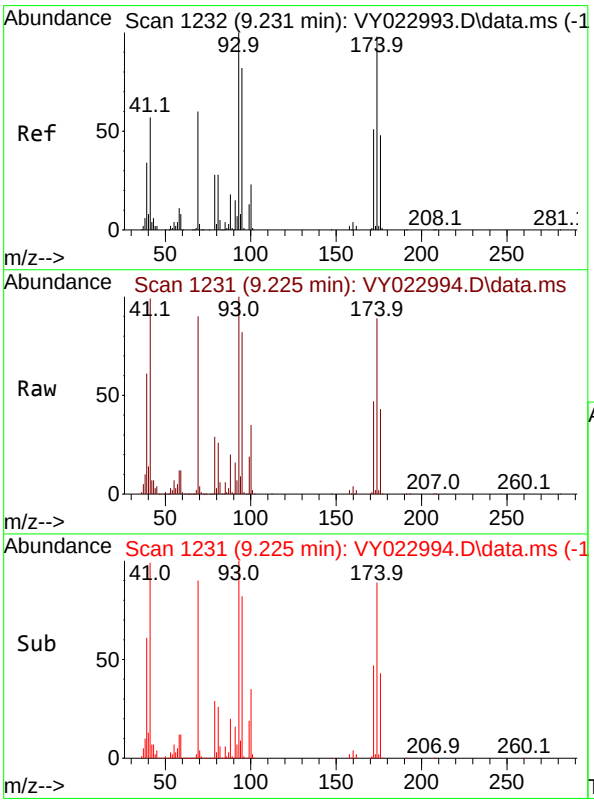
#45
1,2-Dichloropropane
Concen: 97.337 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 533997

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

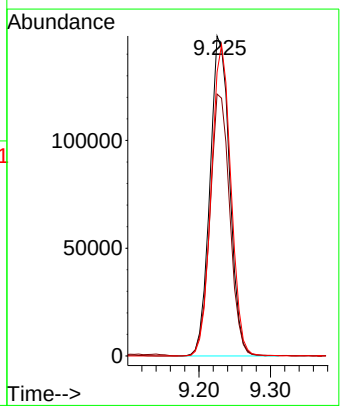


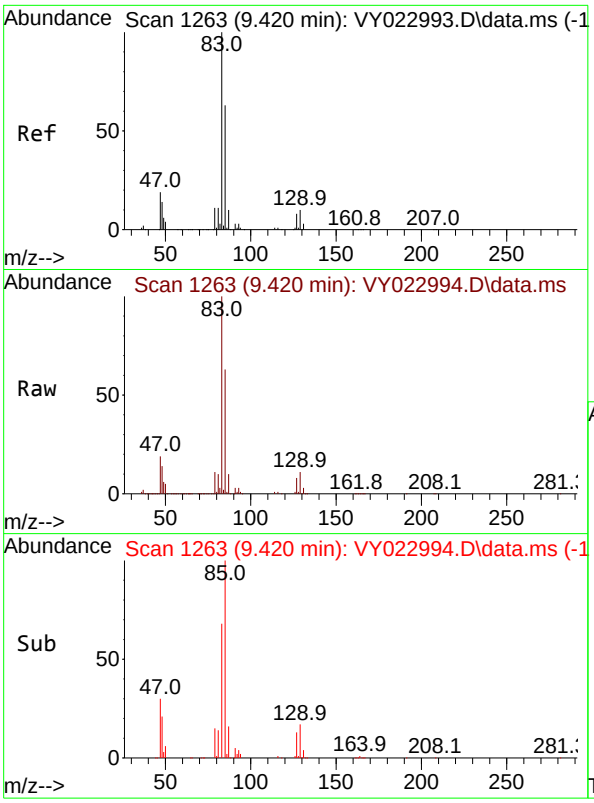


#46
Dibromomethane
Concen: 100.232 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 93 Resp: 284227

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.9	98.9
174	96.9	76.4	114.6



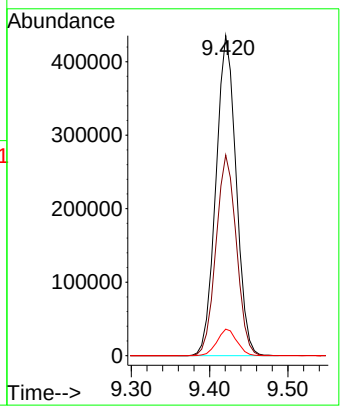


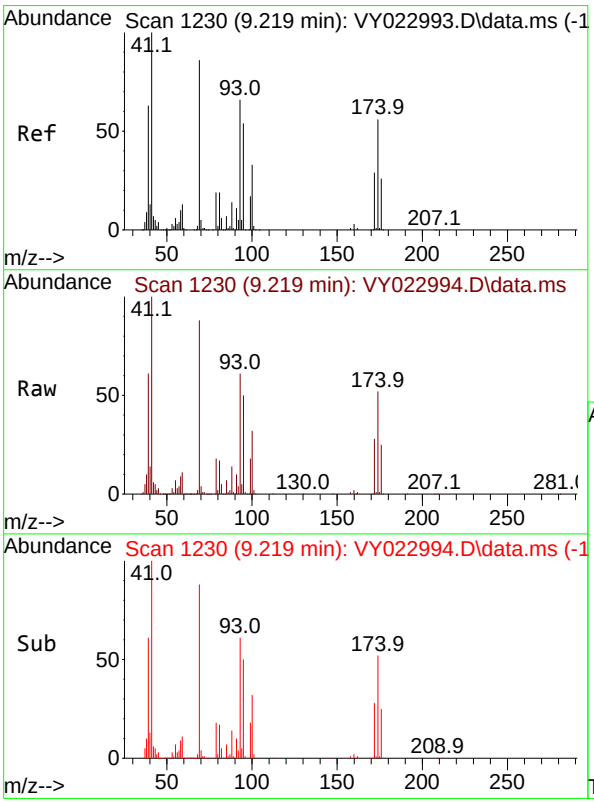
#47
Bromodichloromethane
Concen: 99.747 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 781857

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.6	75.8
127	8.3	6.5	9.7

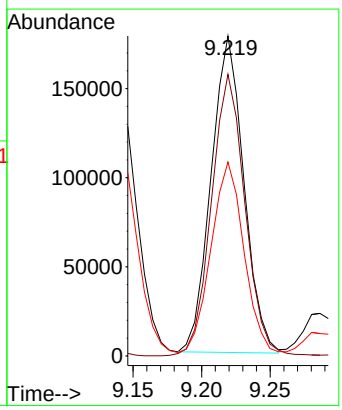


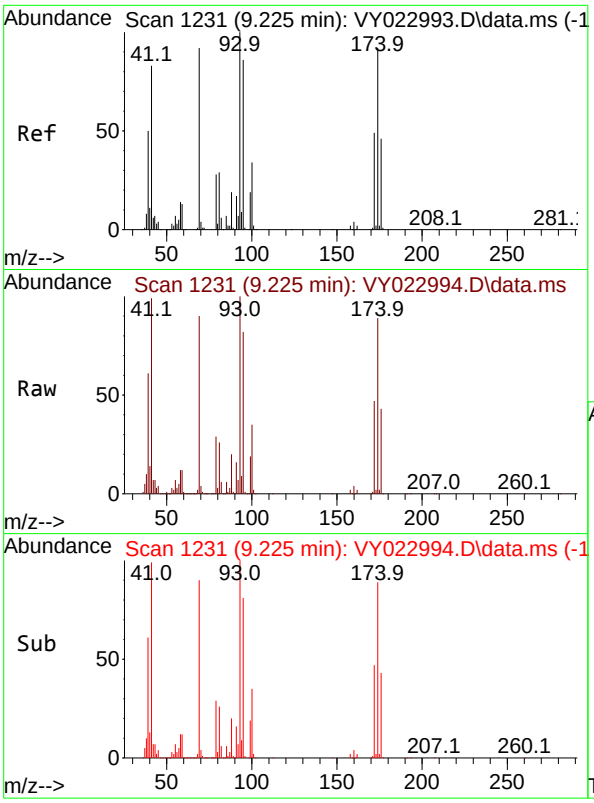


#48
Methyl methacrylate
Concen: 106.166 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 41 Resp: 295029

Ion	Ratio	Lower	Upper
41	100		
69	91.2	71.4	107.0
39	60.5	47.8	71.8



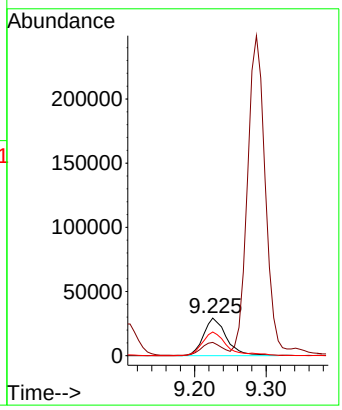


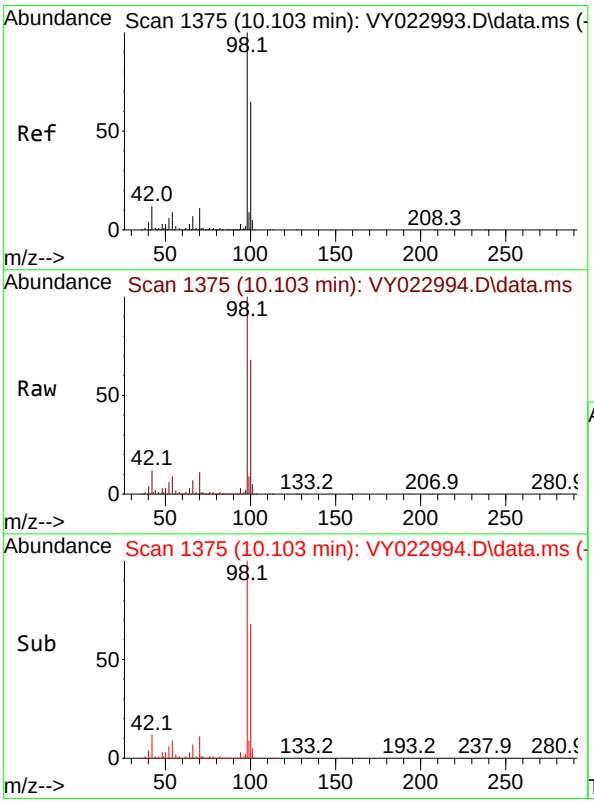
#49
1,4-Dioxane
Concen: 2181.786 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 65215

Ion	Ratio	Lower	Upper
88	100		
43	31.9	28.7	43.1
58	68.7	59.8	89.6

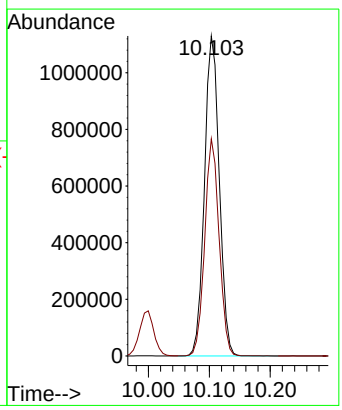


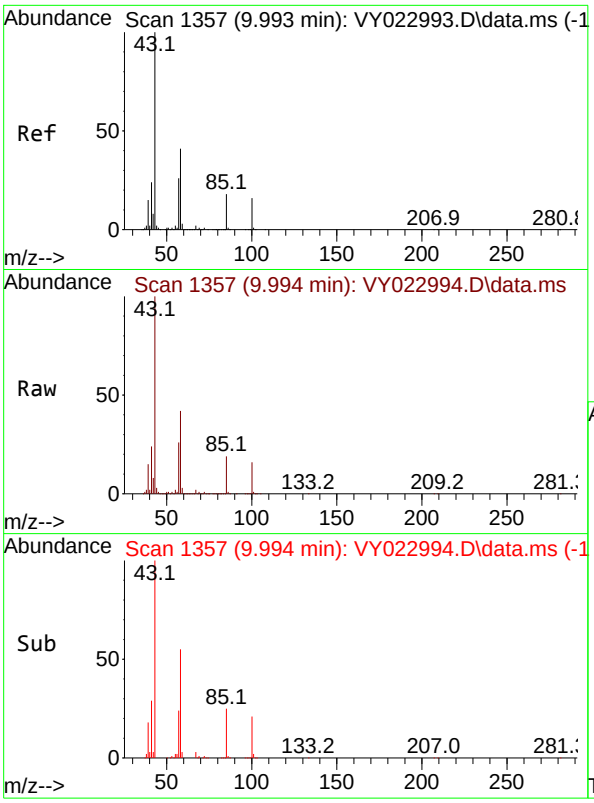


#50
Toluene-d8
Concen: 97.264 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 98 Resp: 1910579

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2



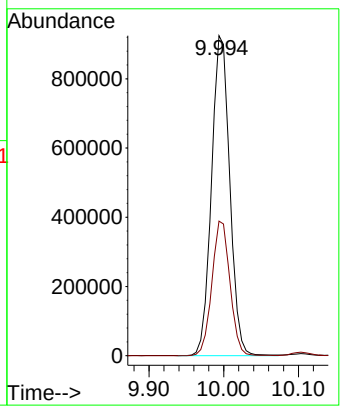


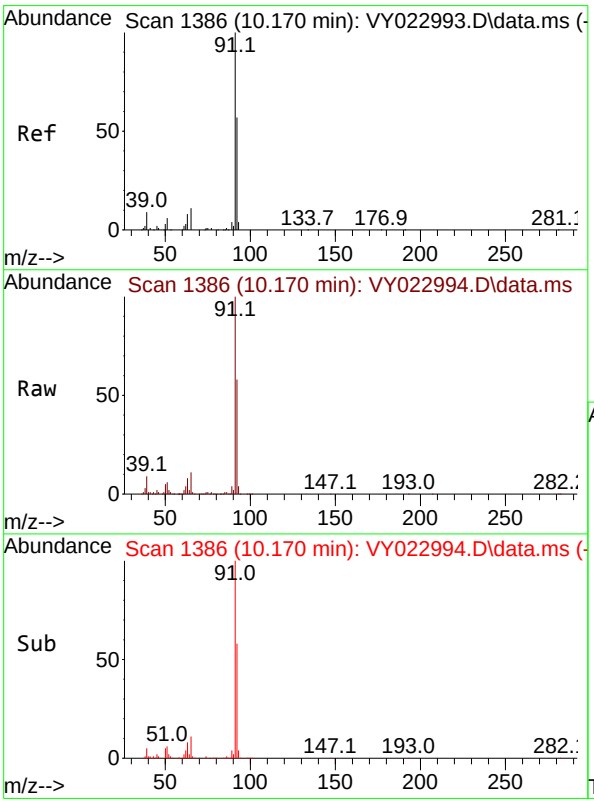
#51
4-Methyl-2-Pentanone
Concen: 535.675 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1565020

Ion	Ratio	Lower	Upper
43	100		
58	41.7	32.5	48.7

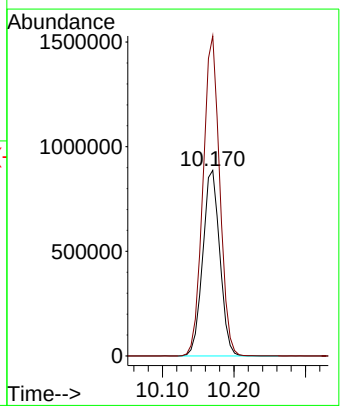


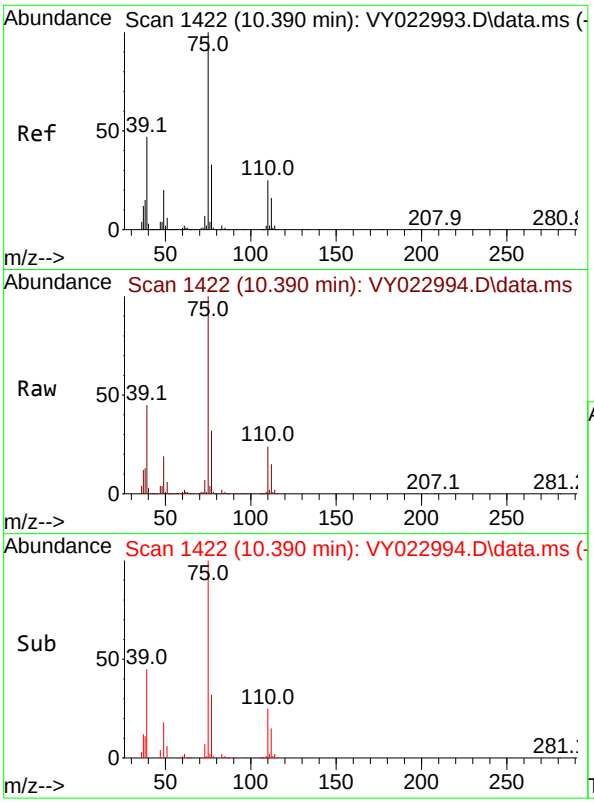


#52
Toluene
Concen: 100.411 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 92 Resp: 1466593

Ion	Ratio	Lower	Upper
92	100		
91	169.2	137.8	206.6



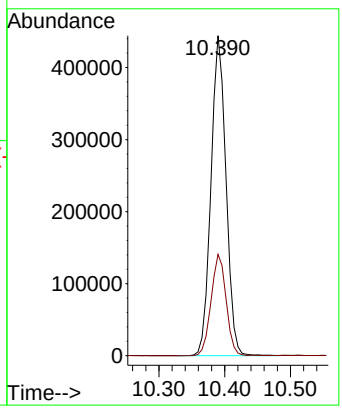


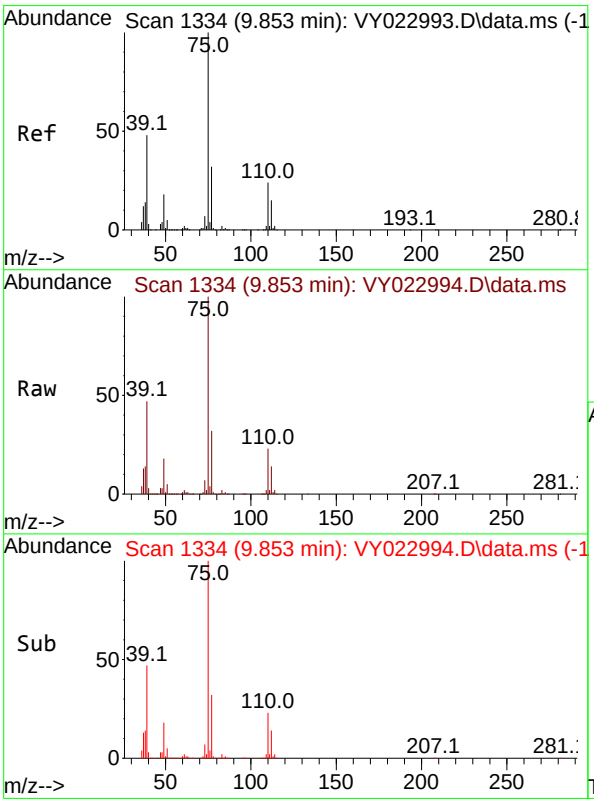
#53
t-1,3-Dichloropropene
Concen: 104.909 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 705883

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.4	39.6

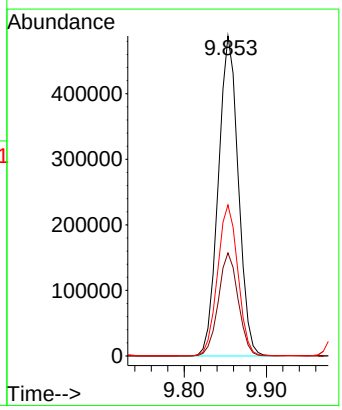


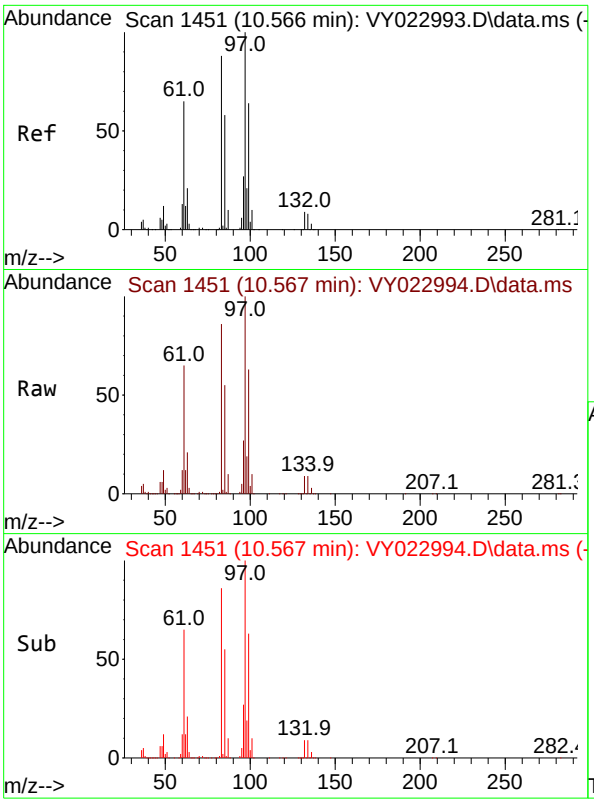


#54
cis-1,3-Dichloropropene
Concen: 101.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 825037

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	47.2	38.2	57.2



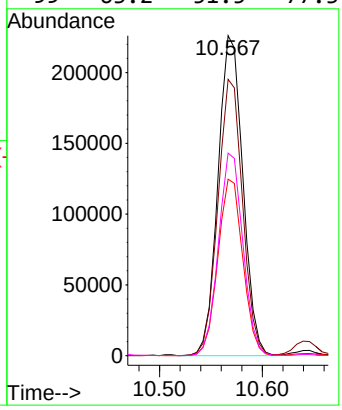


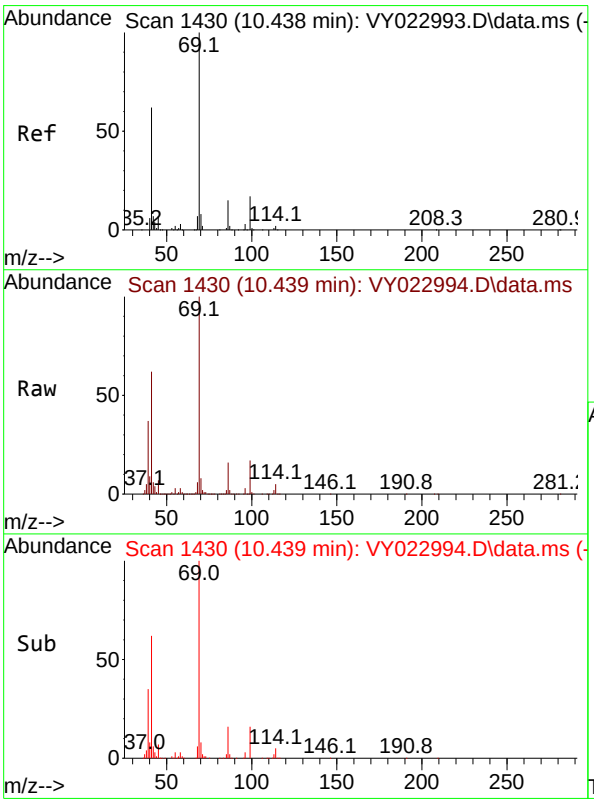
#55
1,1,2-Trichloroethane
Concen: 101.863 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 379653

Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.2	105.2
85	55.2	46.2	69.2
99	63.2	51.5	77.3

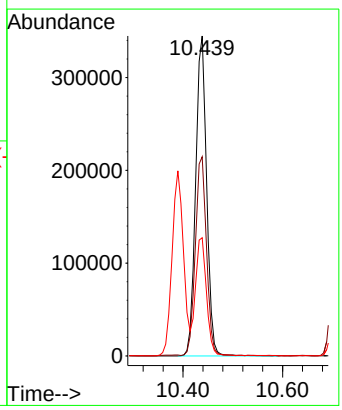


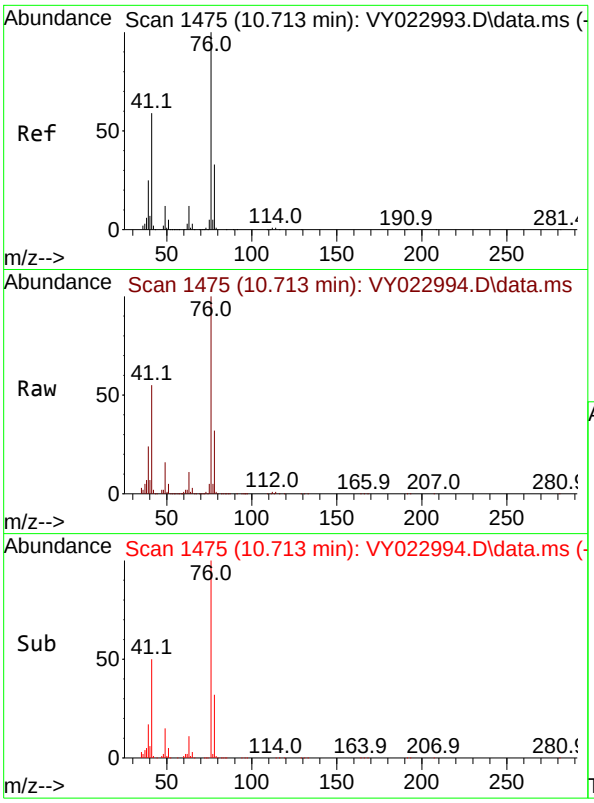


#56
Ethyl methacrylate
Concen: 112.902 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 69 Resp: 525284

Ion	Ratio	Lower	Upper
69	100		
41	63.2	51.0	76.4
39	37.1	30.6	46.0



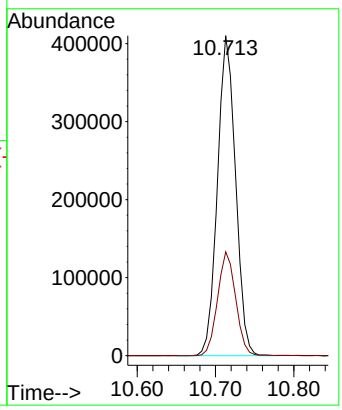


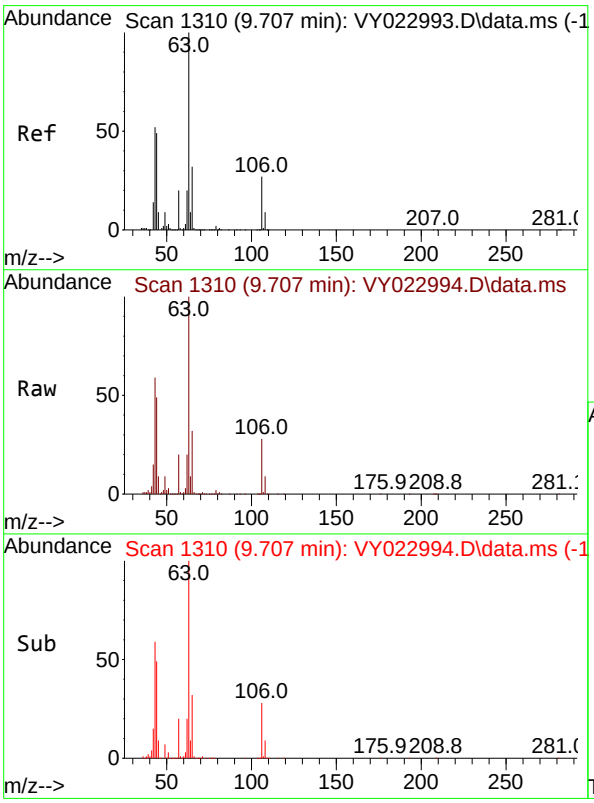
#57
1,3-Dichloropropane
Concen: 102.392 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 659240

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.6	39.8

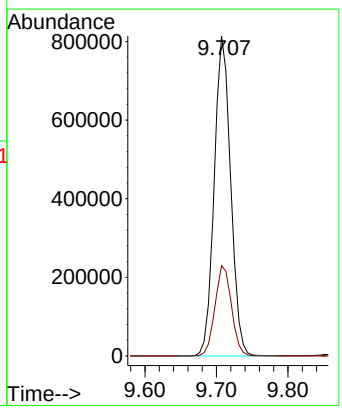


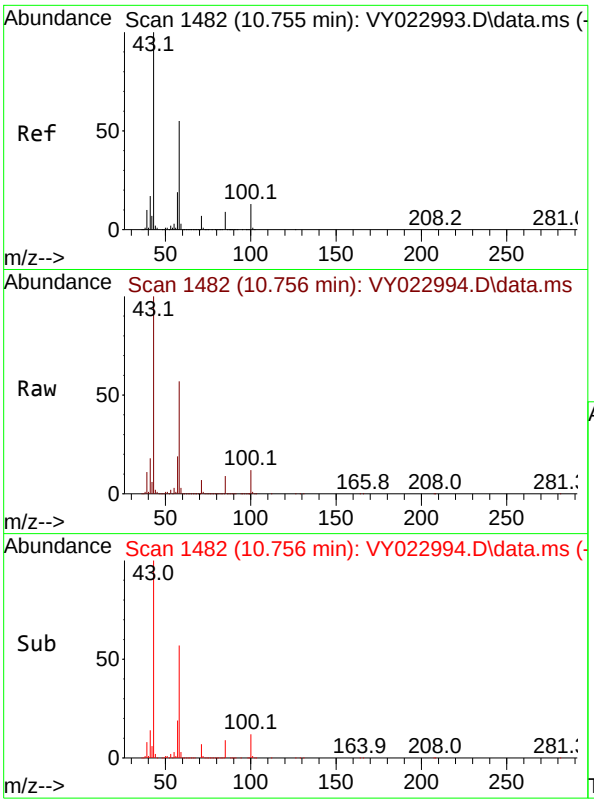


#58
2-Chloroethyl Vinyl ether
Concen: 570.401 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 63 Resp: 1299087

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.6	33.8



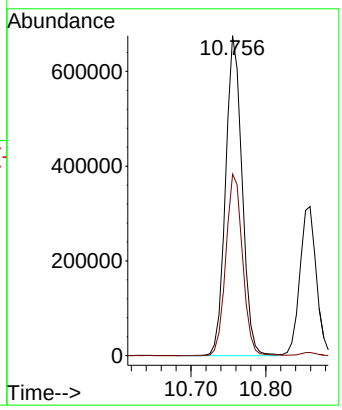


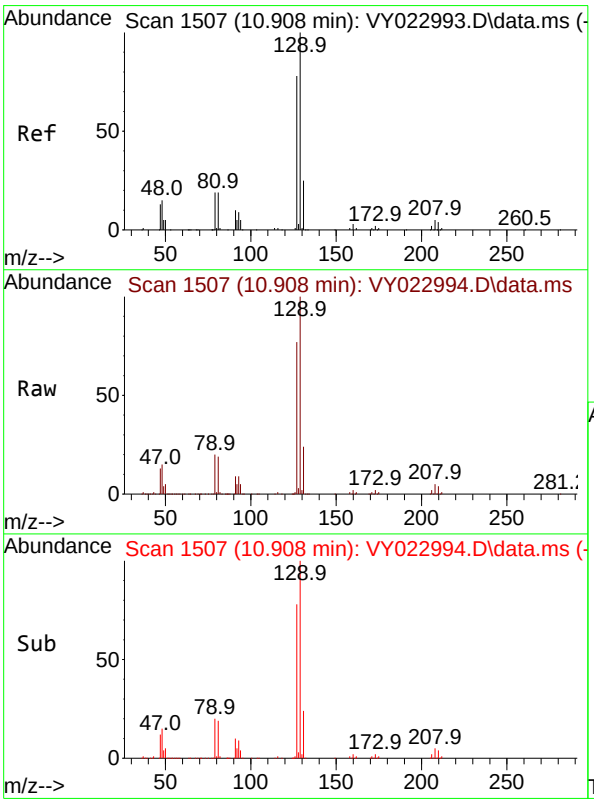
#59
2-Hexanone
Concen: 539.710 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1036463

Ion	Ratio	Lower	Upper
43	100		
58	57.4	28.1	84.3

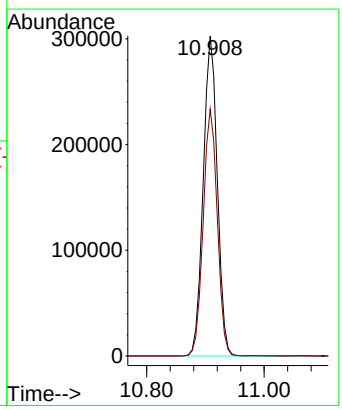


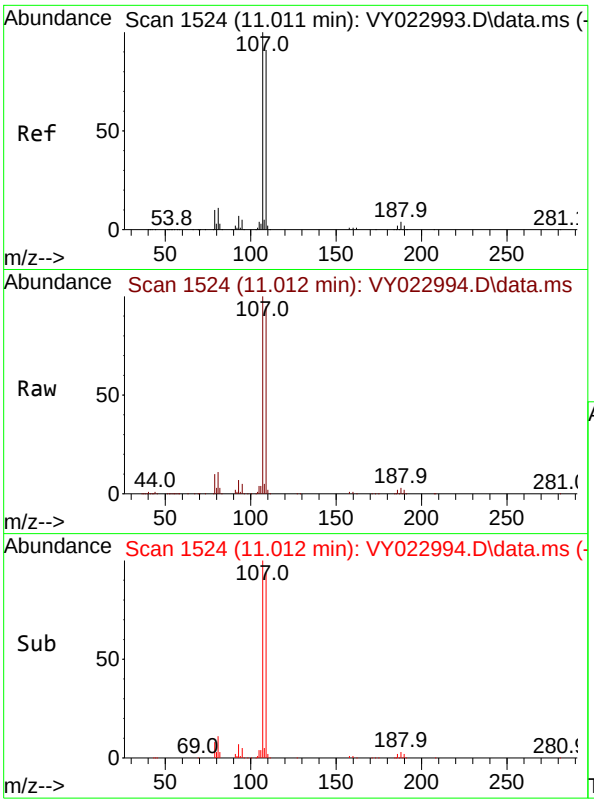


#60
Dibromochloromethane
Concen: 102.935 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:129 Resp: 502369

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.7	116.1



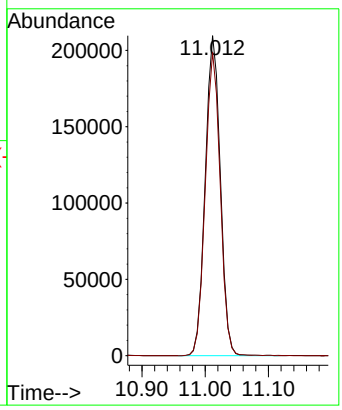


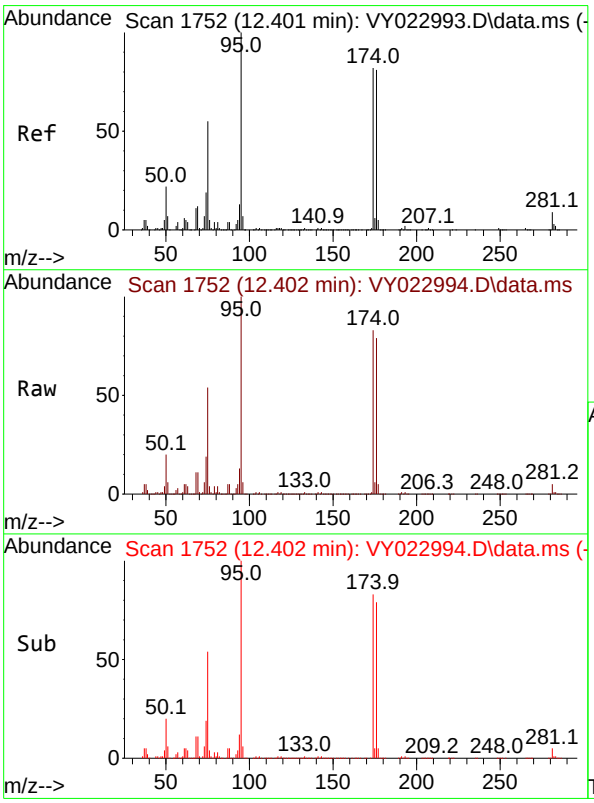
#61
1,2-Dibromoethane
Concen: 102.869 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 348166

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.1	112.7

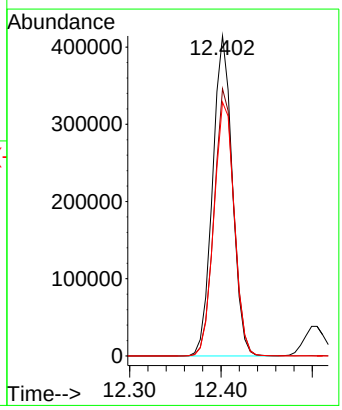


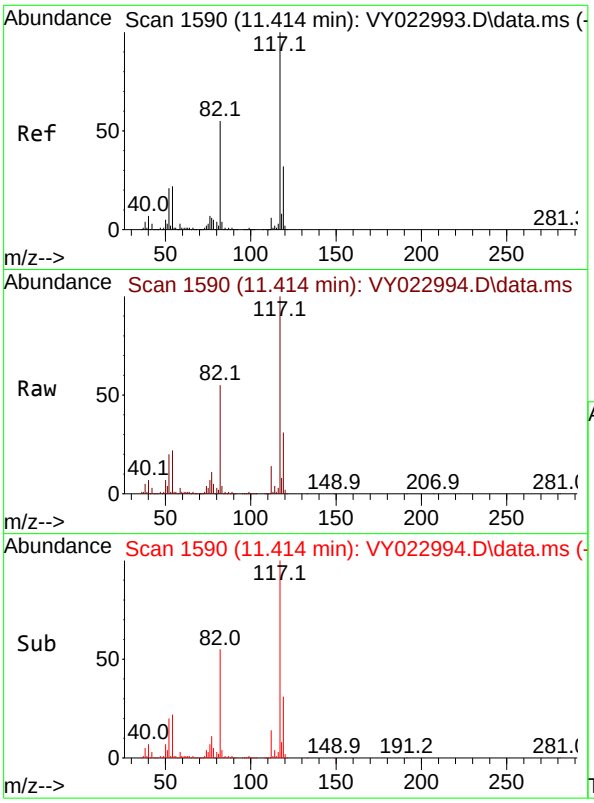


#62
4-Bromofluorobenzene
Concen: 100.465 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 95 Resp: 621212

Ion	Ratio	Lower	Upper
95	100		
174	84.0	0.0	170.8
176	81.8	0.0	163.6



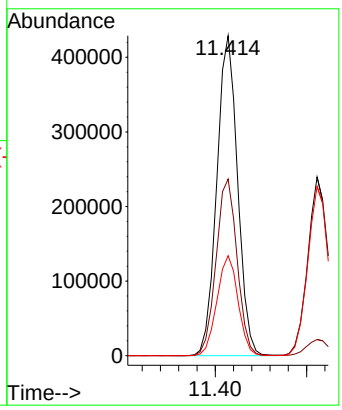


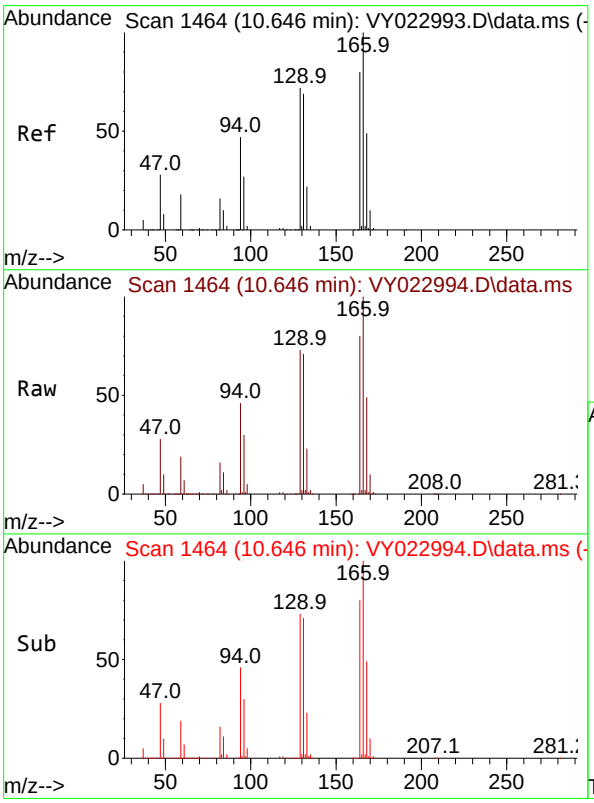
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 678532

Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.3	66.5
119	31.2	25.8	38.8

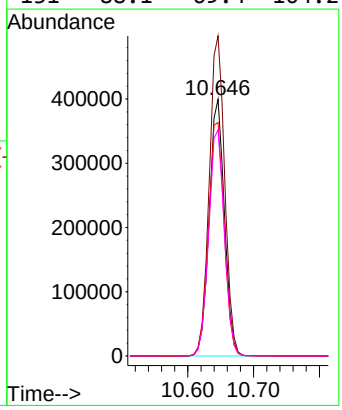


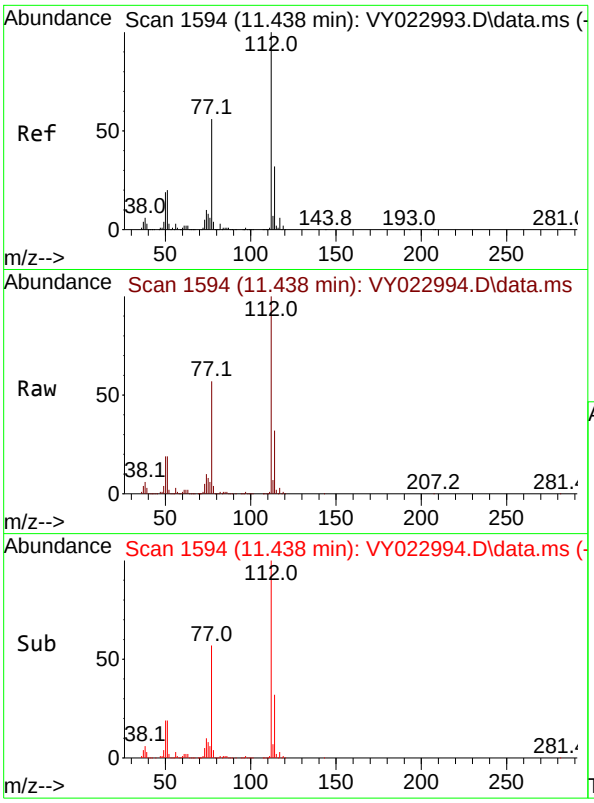


#64
Tetrachloroethene
Concen: 92.667 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:164 Resp: 642694

Ion	Ratio	Lower	Upper
164	100		
166	124.7	100.2	150.2
129	91.0	71.7	107.5
131	88.1	69.4	104.2



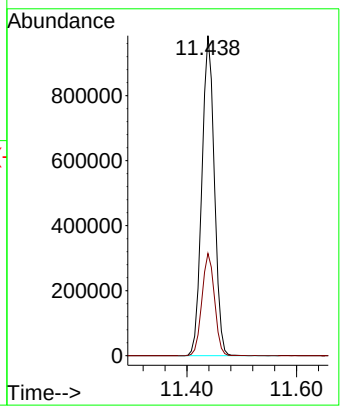


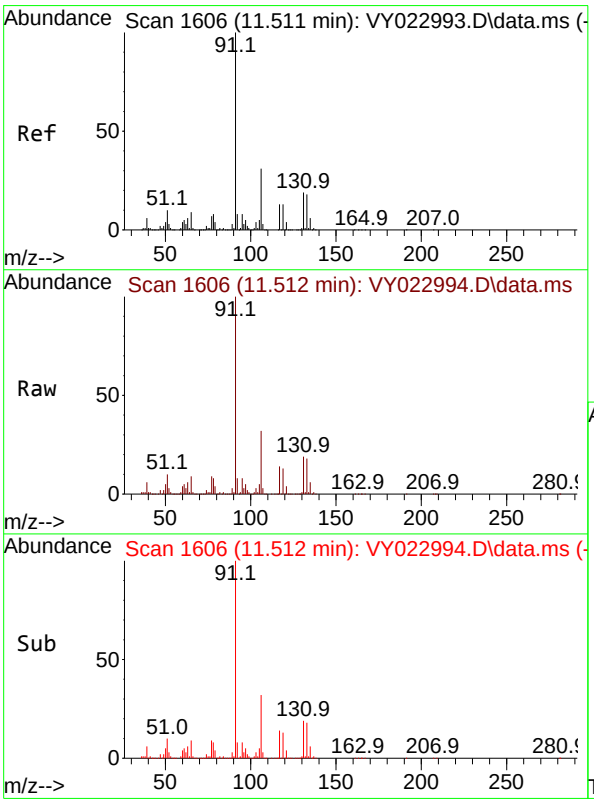
#65
Chlorobenzene
Concen: 97.021 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 1553437

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.4	38.2

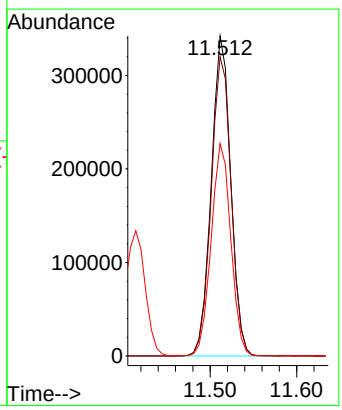


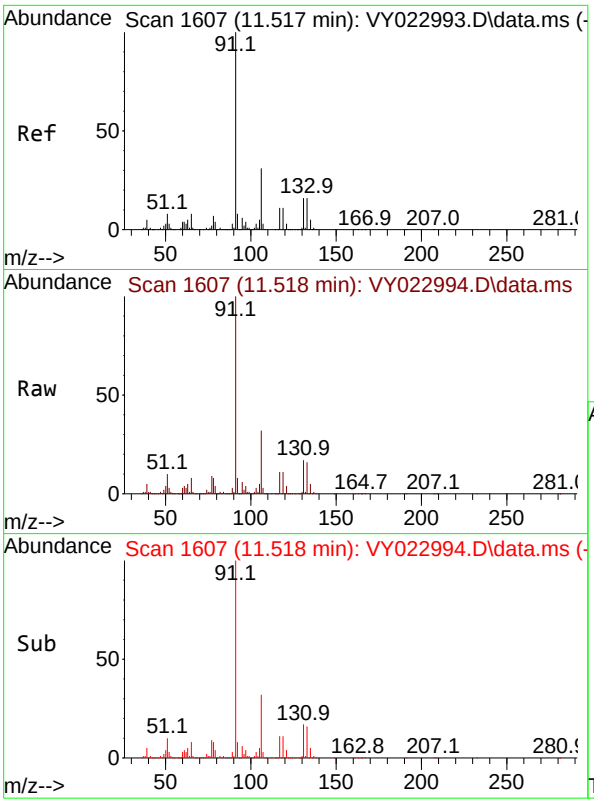


#66
1,1,1,2-Tetrachloroethane
Concen: 97.795 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:131 Resp: 534070

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.8	143.3
119	67.0	33.3	99.8



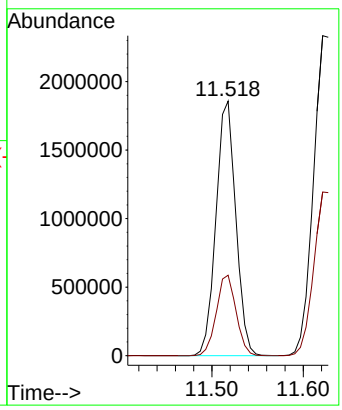


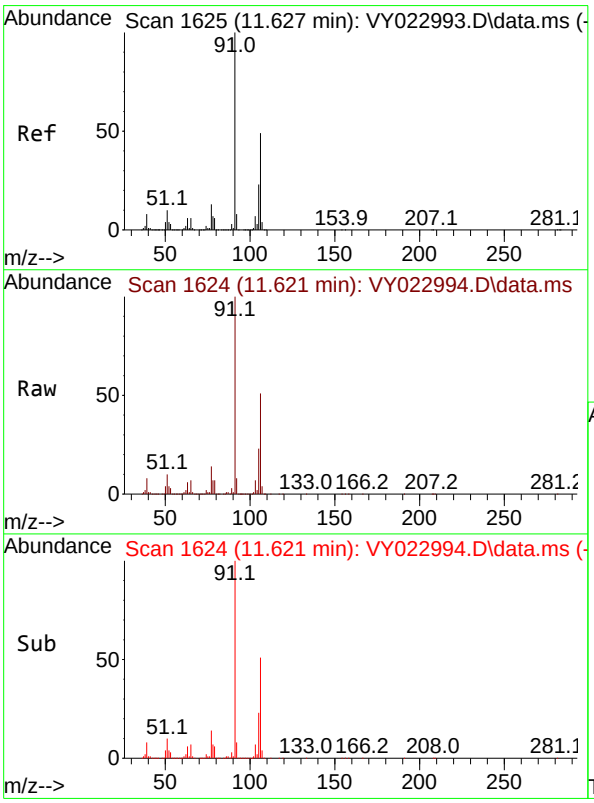
#67
Ethyl Benzene
Concen: 98.709 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 2801373

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	37.0

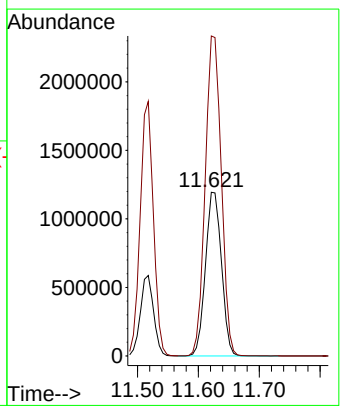


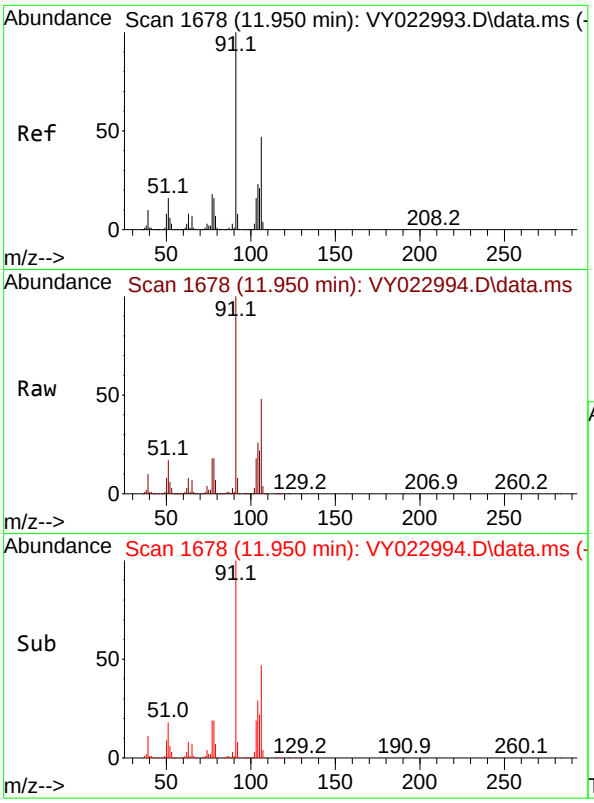


#68
m/p-Xylenes
Concen: 199.933 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:106 Resp: 2176388

Ion	Ratio	Lower	Upper
106	100		
91	196.5	159.8	239.8



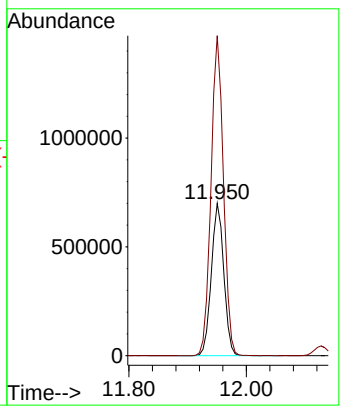


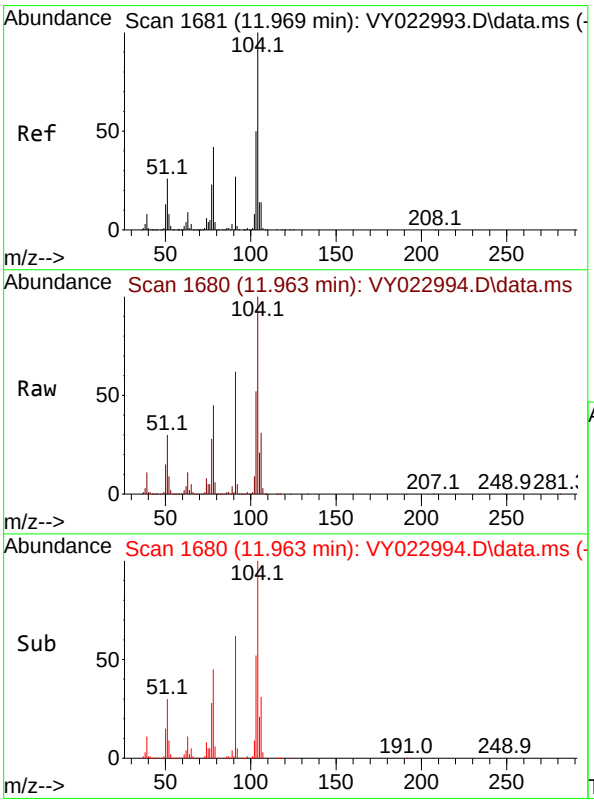
#69
o-Xylene
Concen: 101.898 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 1029408

Ion	Ratio	Lower	Upper
106	100		
91	209.6	106.3	318.8

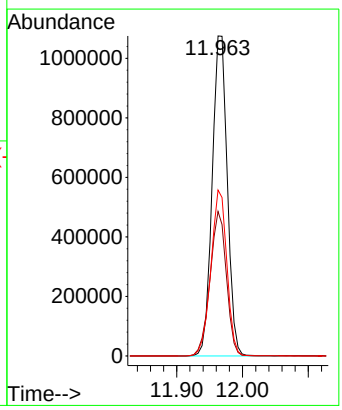


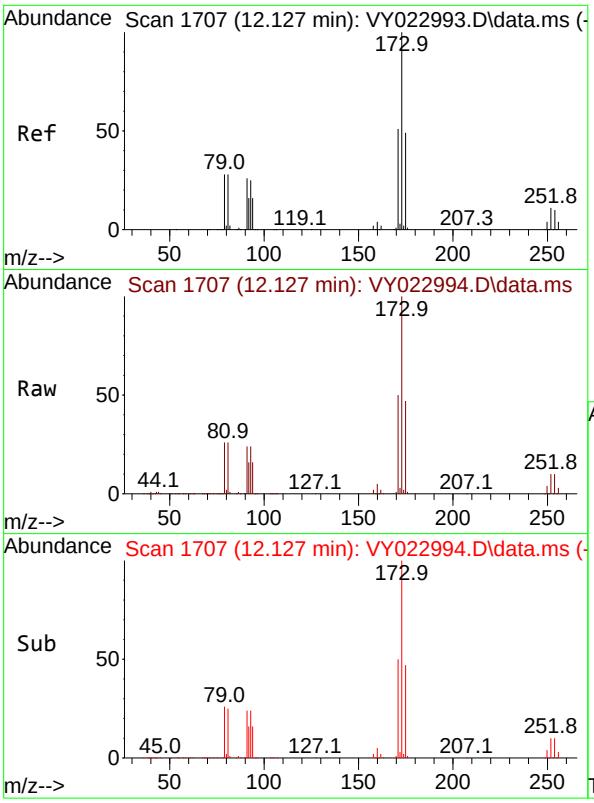


#70
Styrene
Concen: 104.018 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:104 Resp: 1721270

Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.6
103	54.8	43.7	65.5



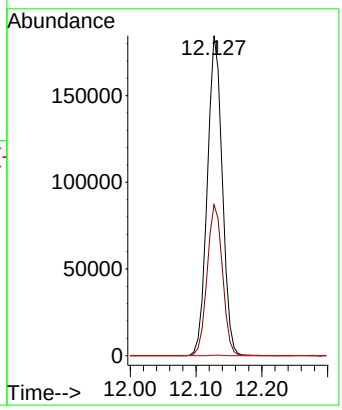


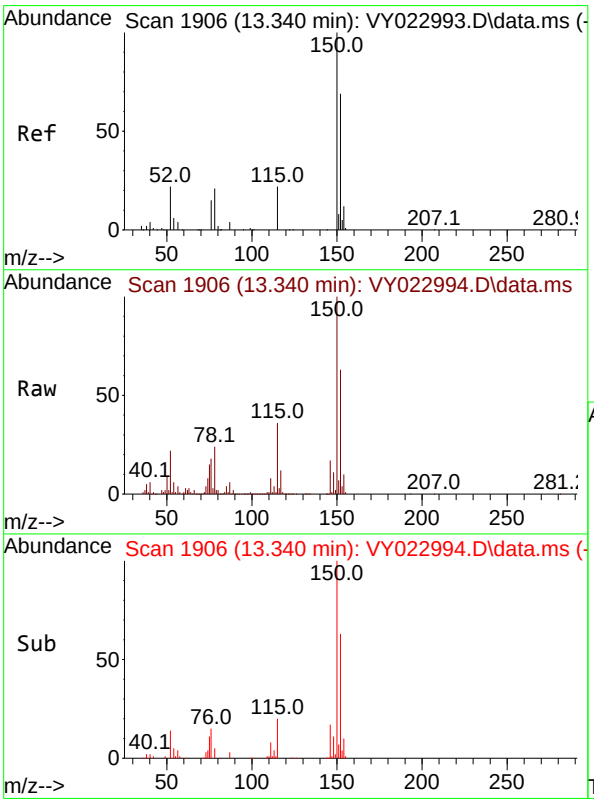
#71
Bromoform
Concen: 105.125 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 291448

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.1	0.2	0.2#

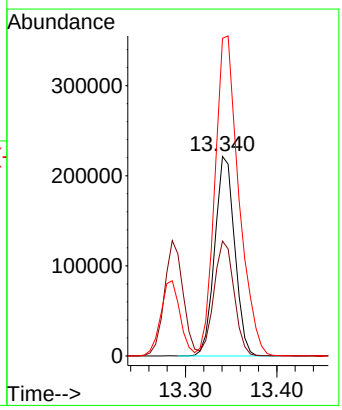


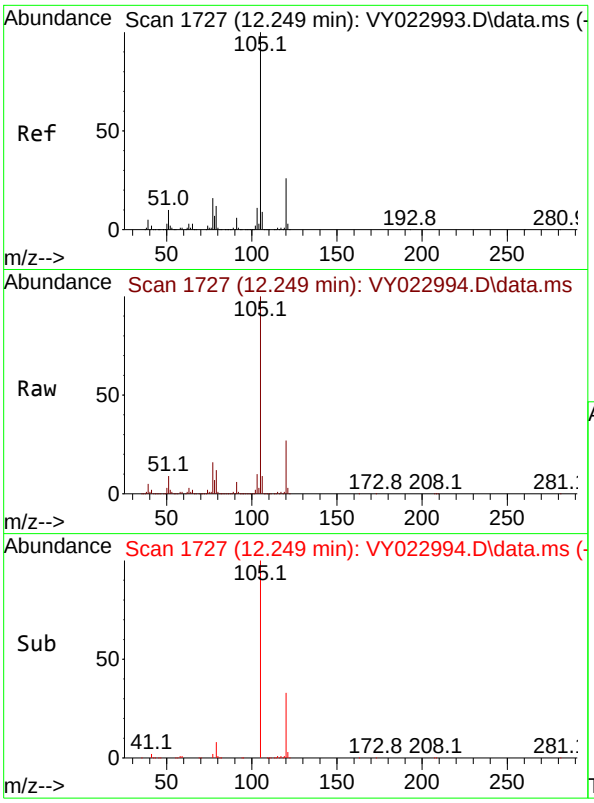


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:152 Resp: 336381

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	192.2	0.0	350.0



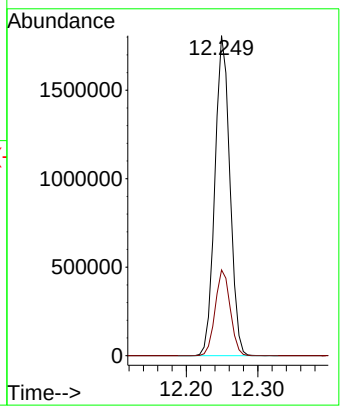


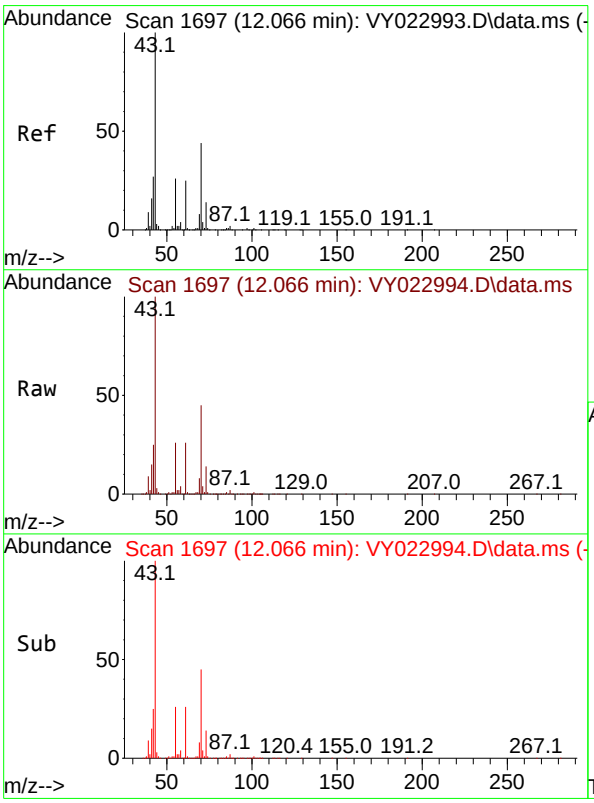
#73
Isopropylbenzene
Concen: 92.342 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 2633517

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.2	39.6

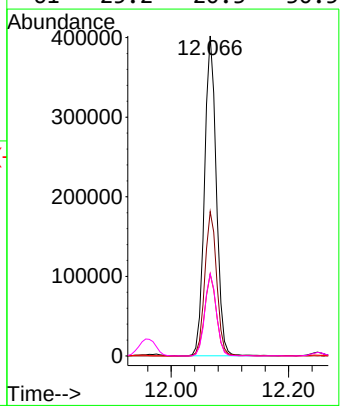


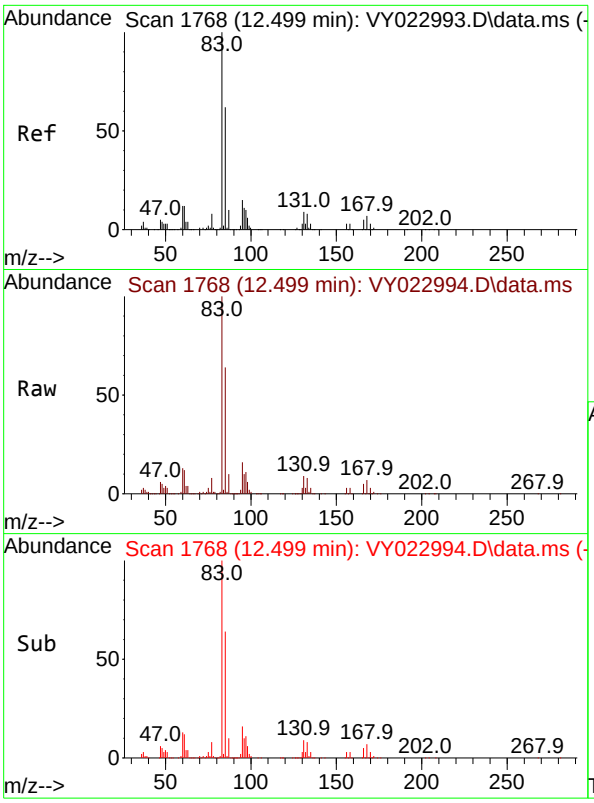


#74
N-amyl acetate
Concen: 104.113 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 43 Resp: 559798

Ion	Ratio	Lower	Upper
43	100		
70	45.4	36.2	54.2
55	25.6	20.9	31.3
61	25.2	20.3	30.5



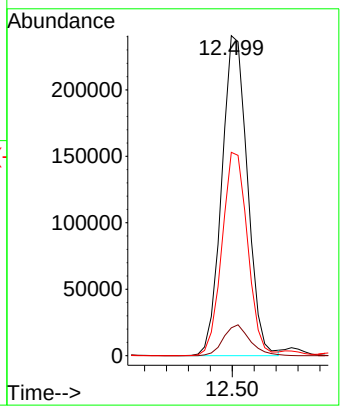


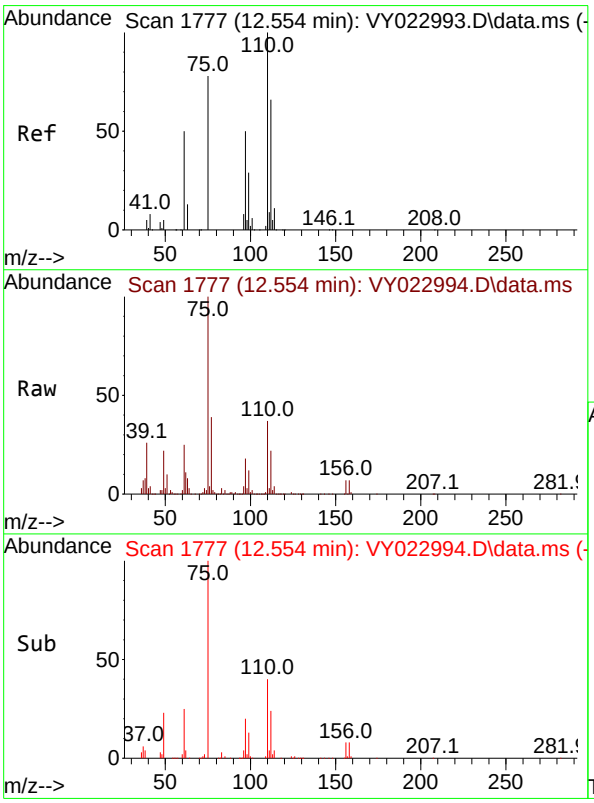
#75
1,1,2,2-Tetrachloroethane
Concen: 94.863 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 391508

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.5	31.9	95.7

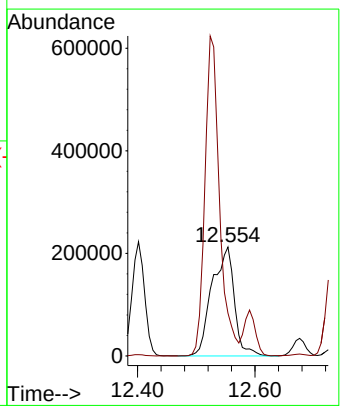


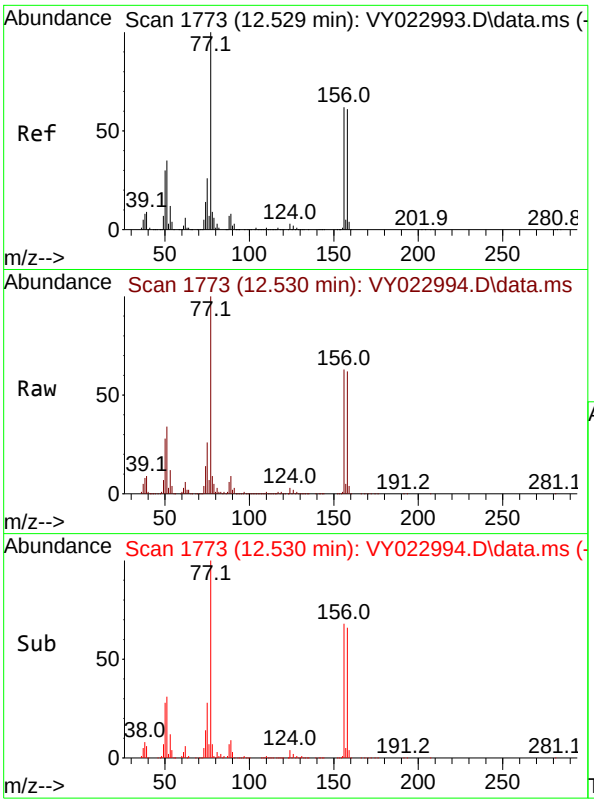


#76
1,2,3-Trichloropropane
Concen: 132.482 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 560868

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



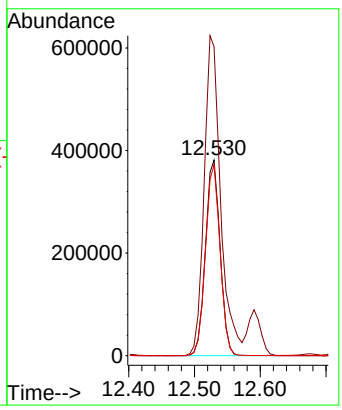


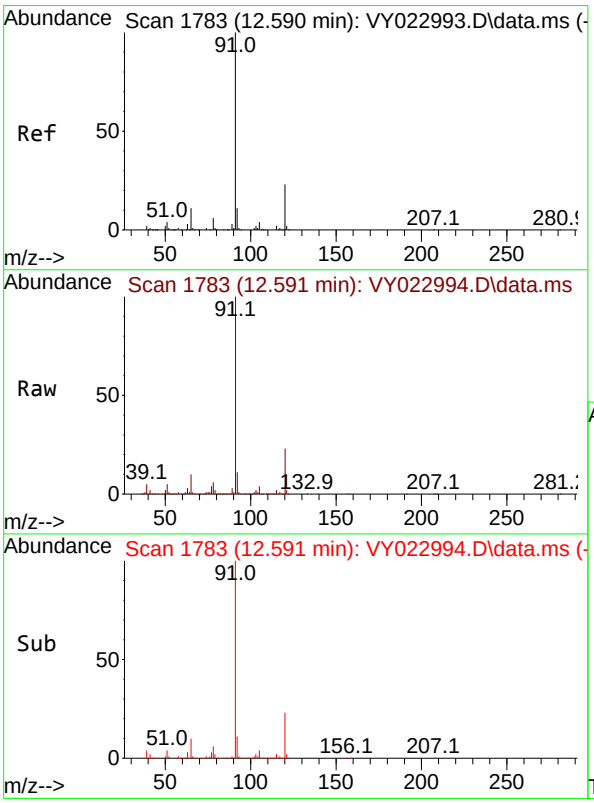
#77
Bromobenzene
Concen: 95.609 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 591382

Ion	Ratio	Lower	Upper
156	100		
77	183.5	92.0	276.1
158	96.9	48.6	145.9

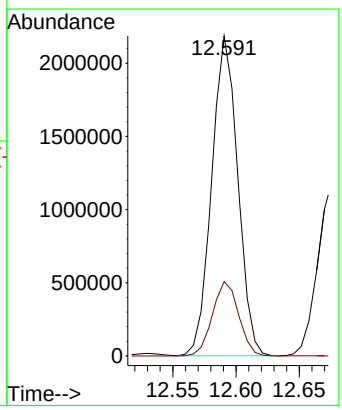


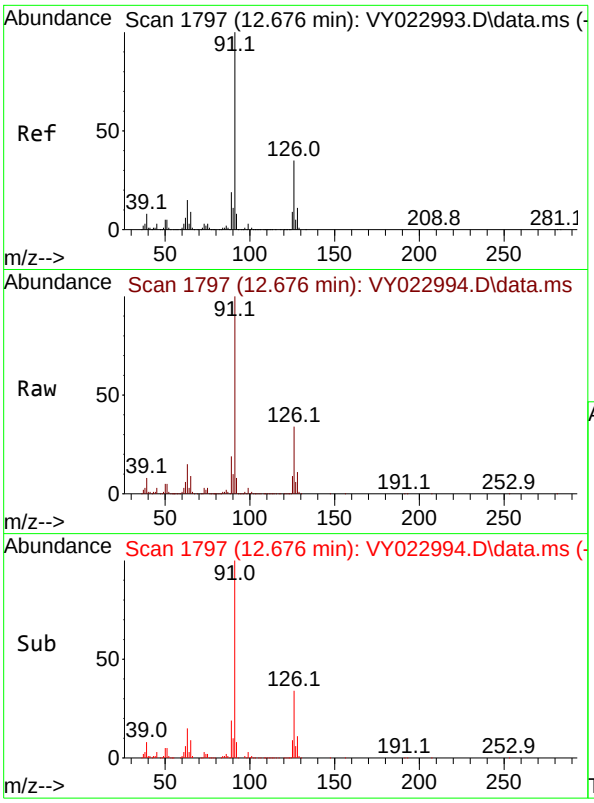


#78
n-propylbenzene
Concen: 92.131 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 91 Resp: 3128958

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.3	33.8



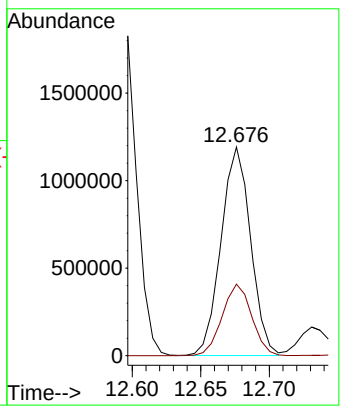


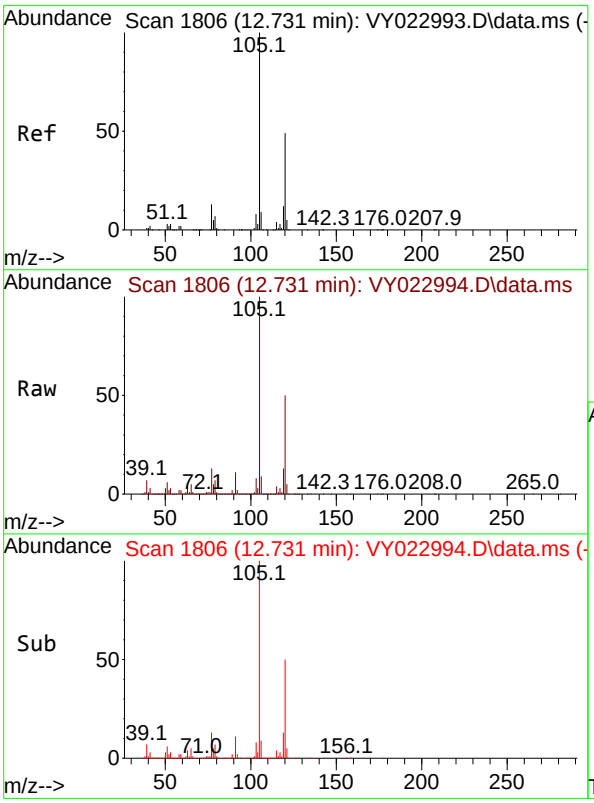
#79
2-Chlorotoluene
Concen: 93.601 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1787847

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.0	50.9

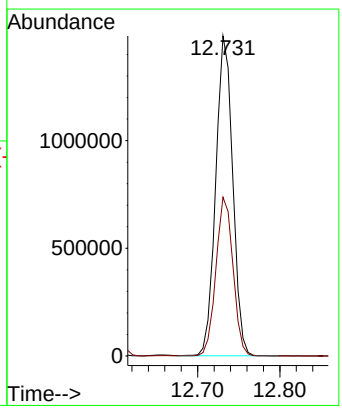


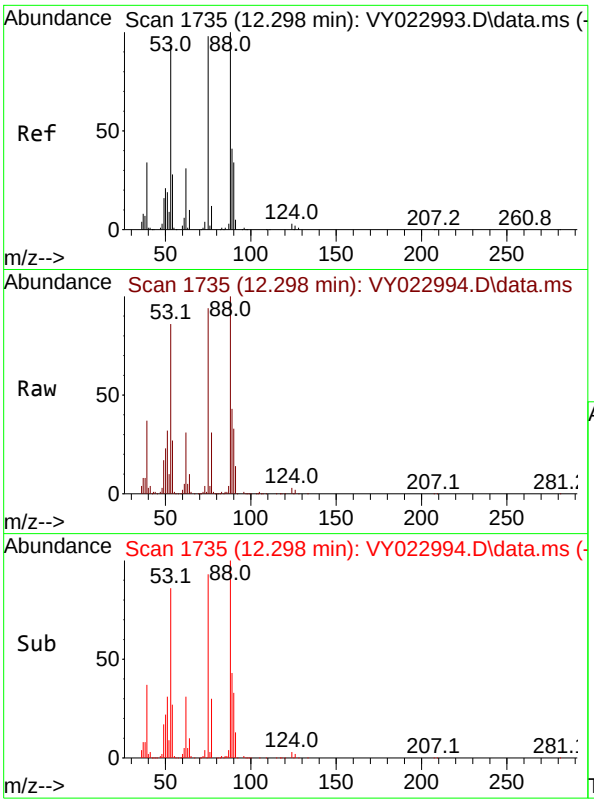


#80
1,3,5-Trimethylbenzene
Concen: 94.884 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:105 Resp: 2134216

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.6	73.8



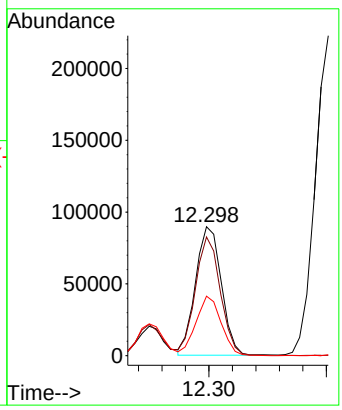


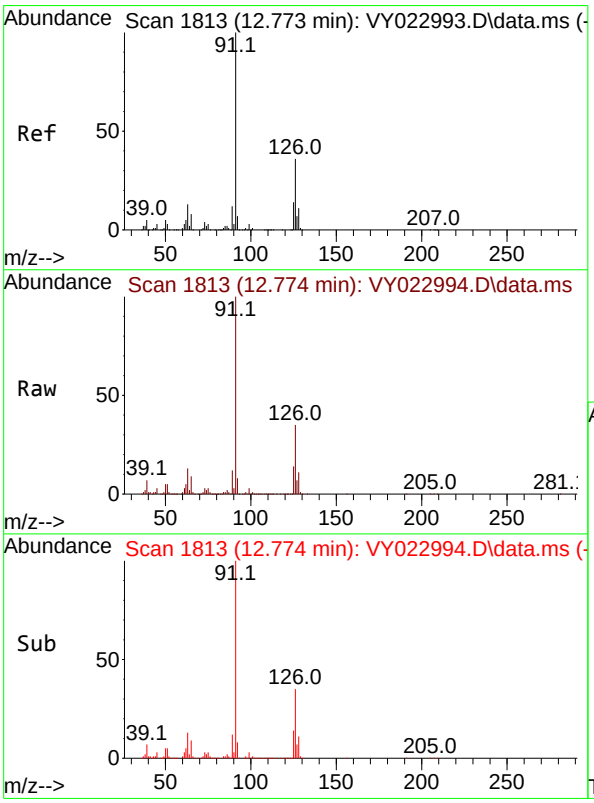
#81
trans-1,4-Dichloro-2-butene
Concen: 97.286 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 136910

Ion	Ratio	Lower	Upper
75	100		
53	89.4	76.1	114.1
89	45.3	36.1	54.1

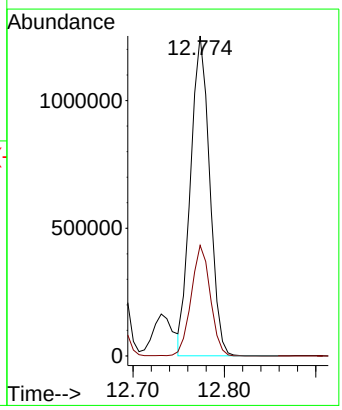


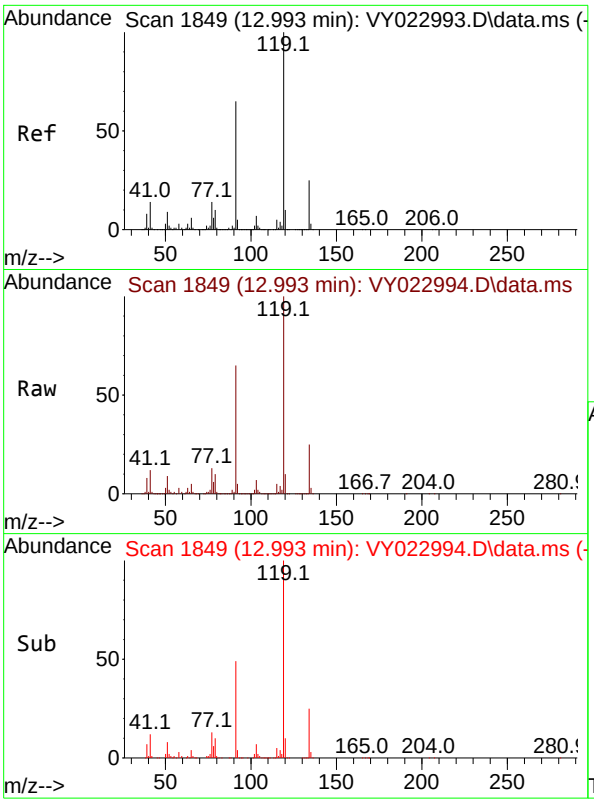


#82
4-Chlorotoluene
Concen: 94.446 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 91 Resp: 1819454

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.2	51.5



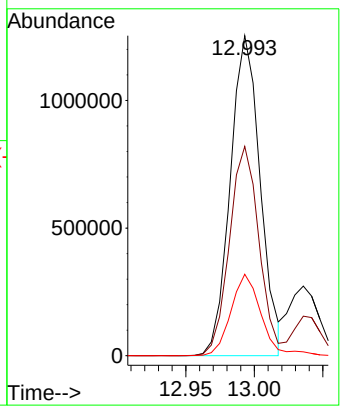


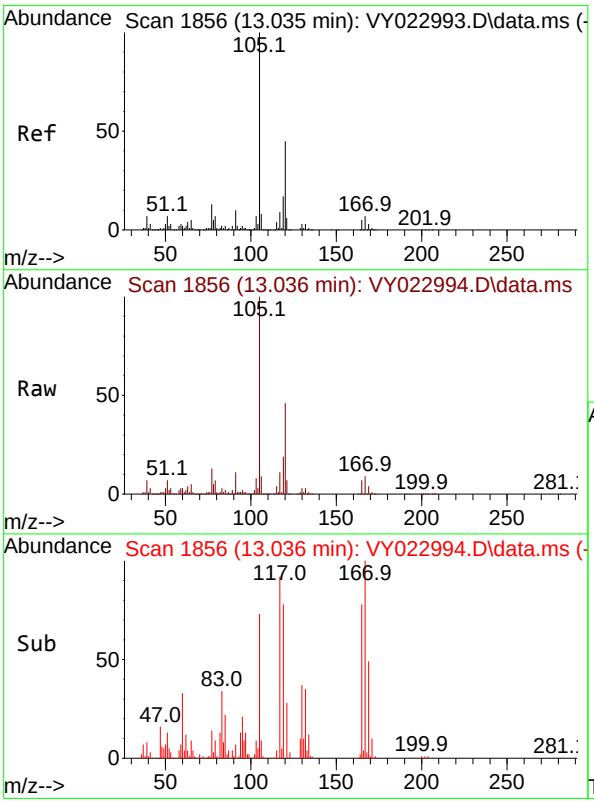
#83
tert-Butylbenzene
Concen: 93.818 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 1906177

Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.0	96.2
134	25.8	12.6	37.6

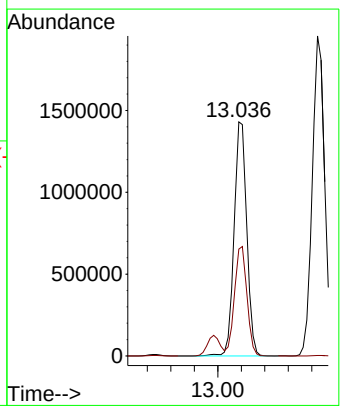


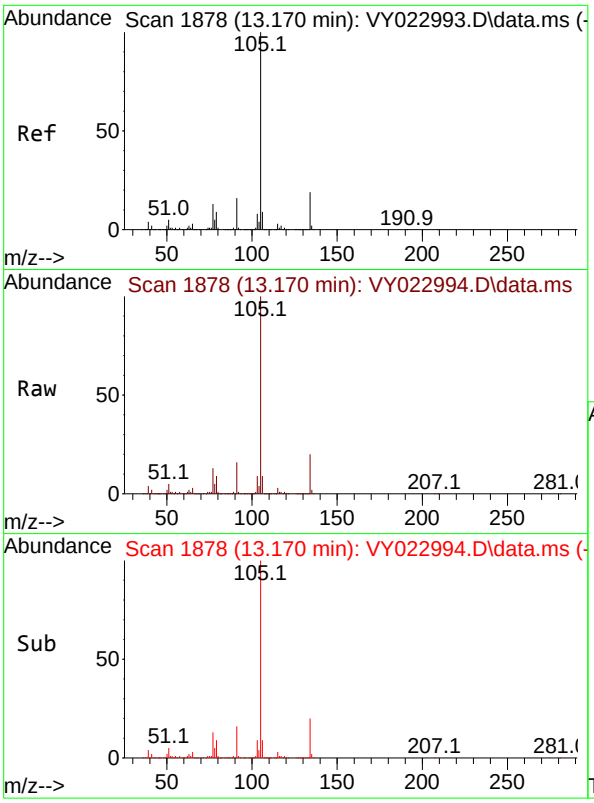


#84
1,2,4-Trimethylbenzene
Concen: 96.506 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:105 Resp: 2136779

Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8



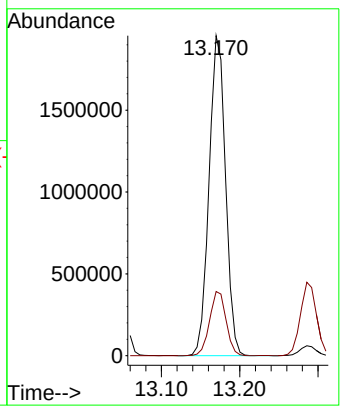


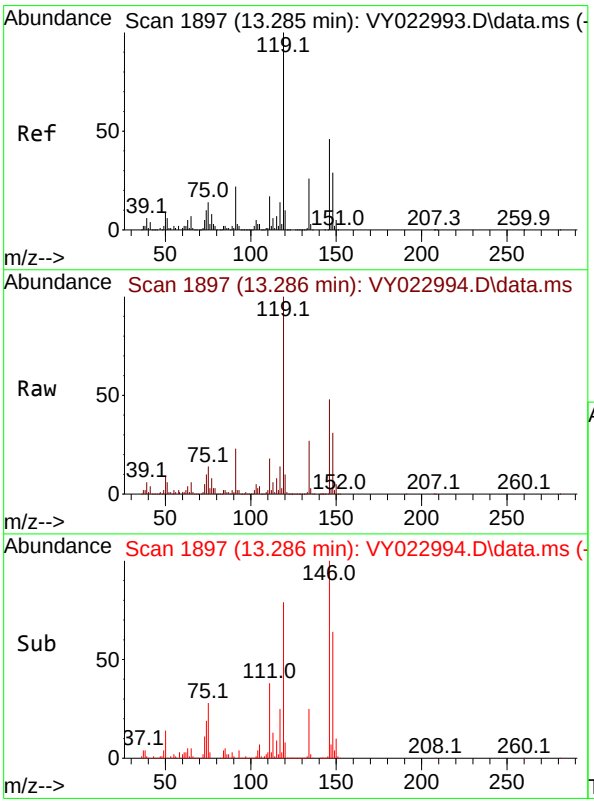
#85
sec-Butylbenzene
Concen: 93.457 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 2845557

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.5

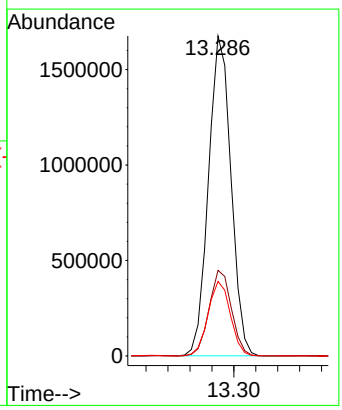


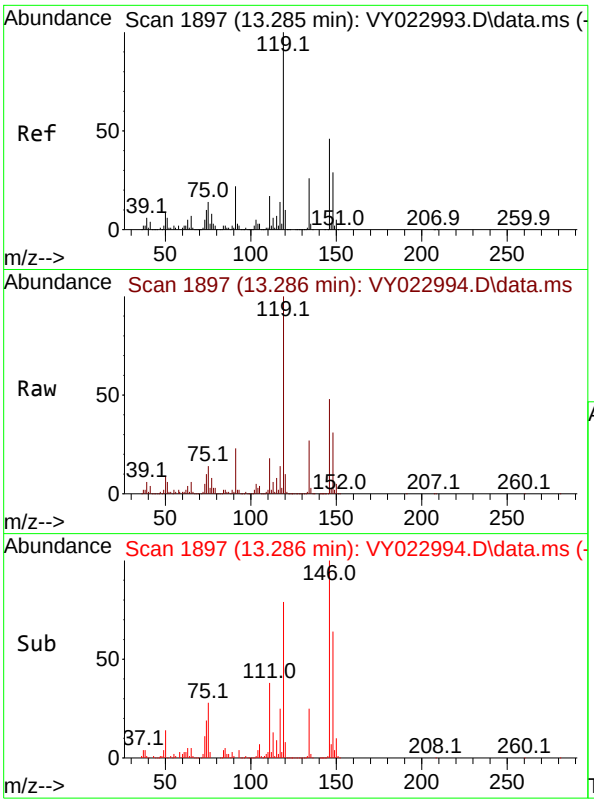


#86
p-Isopropyltoluene
Concen: 96.785 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:119 Resp: 2393335

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.1	39.1
91	23.1	11.4	34.1



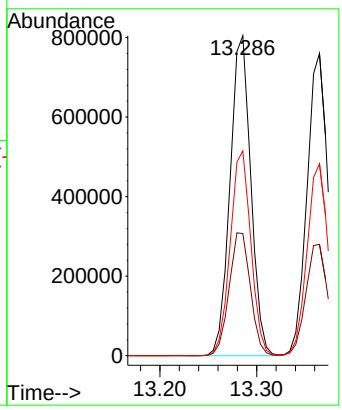


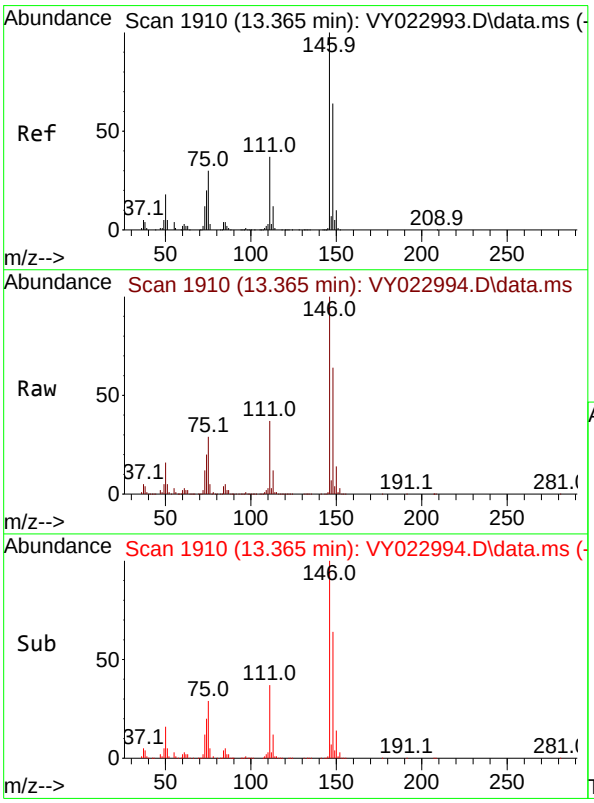
#87
1,3-Dichlorobenzene
Concen: 96.105 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1199663

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.8	59.3
148	63.8	31.6	94.8

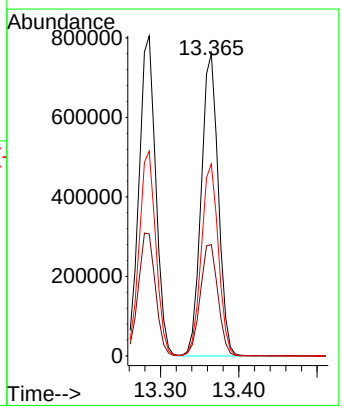


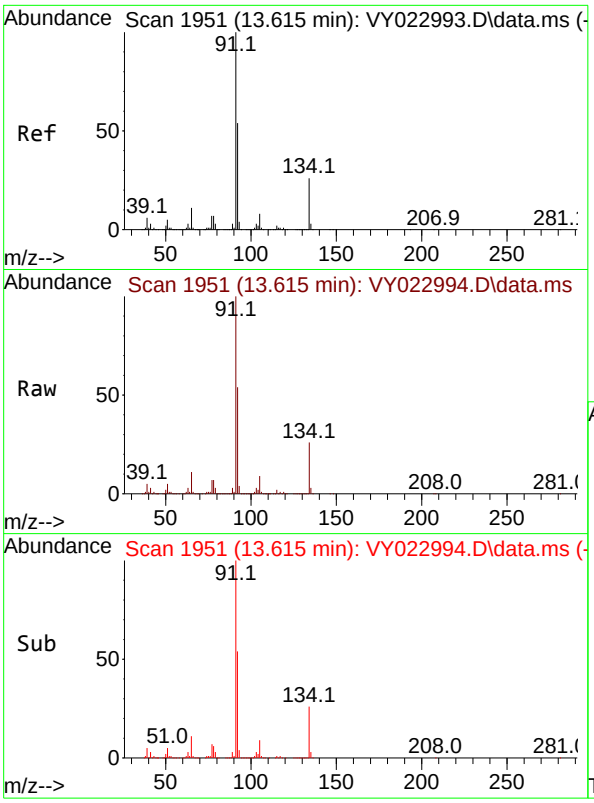


#88
1,4-Dichlorobenzene
Concen: 95.021 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:146 Resp: 1147484

Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.2	57.6
148	63.7	31.9	95.5



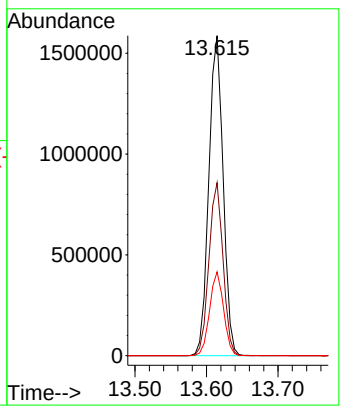


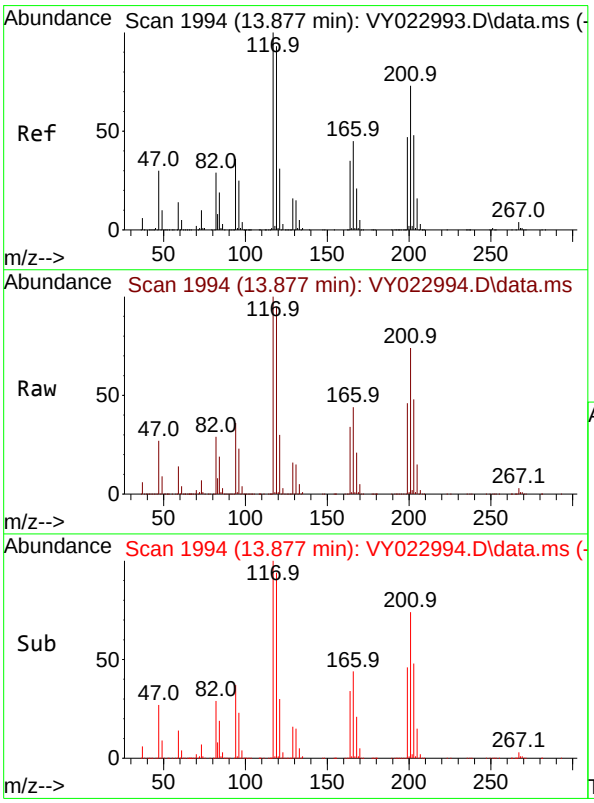
#89
n-Butylbenzene
Concen: 96.545 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 2202992

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.6	12.6	37.6

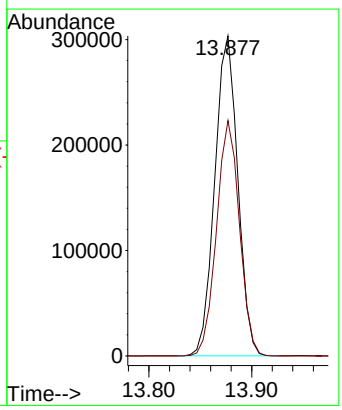


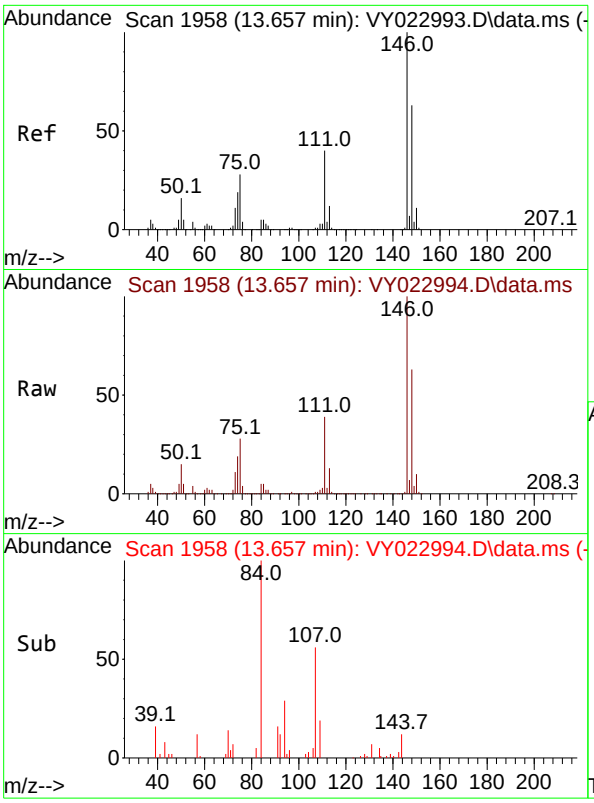


#90
Hexachloroethane
Concen: 92.105 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:117 Resp: 471548

Ion	Ratio	Lower	Upper
117	100		
201	73.3	36.1	108.5



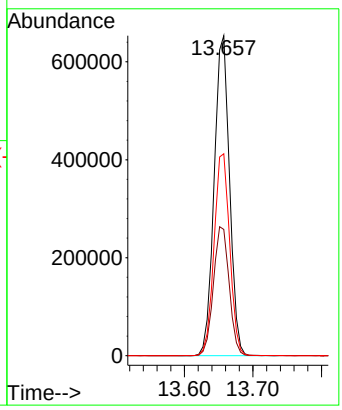


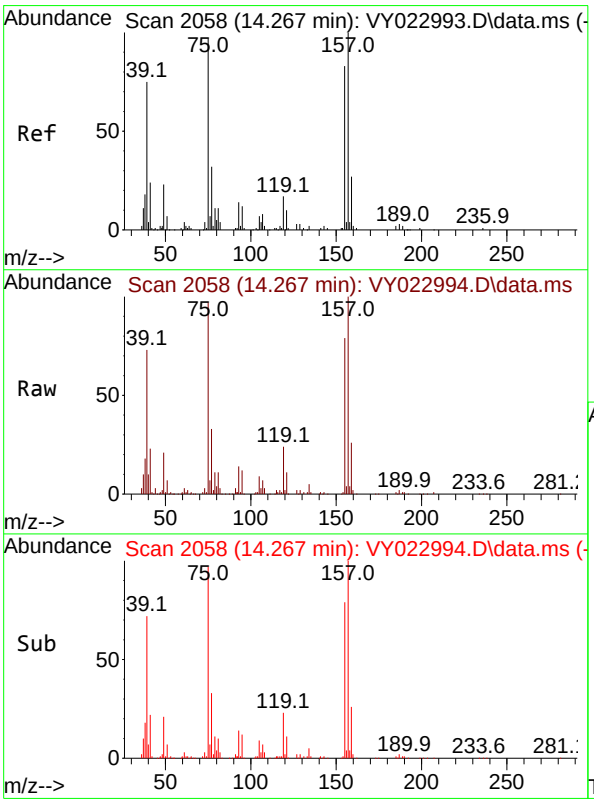
#91
1,2-Dichlorobenzene
Concen: 96.328 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1014265

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.3	61.0
148	64.3	32.0	96.2

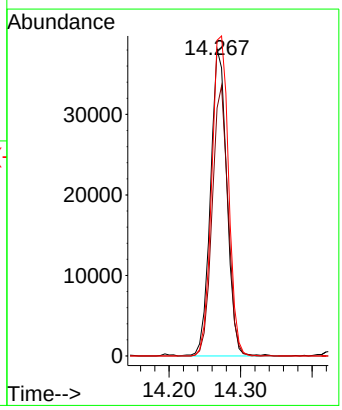


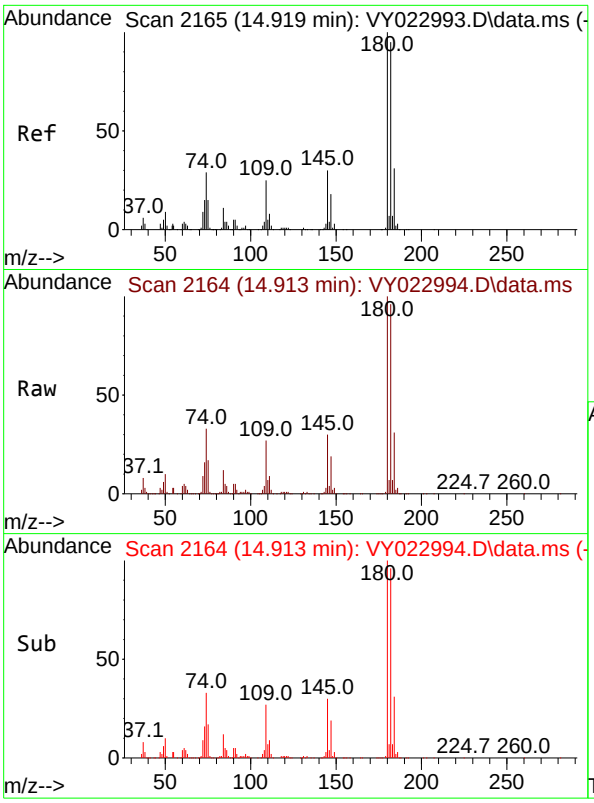


#92
1,2-Dibromo-3-Chloropropane
Concen: 98.636 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion: 75 Resp: 60444

Ion	Ratio	Lower	Upper
75	100		
155	84.9	42.8	128.3
157	107.4	54.3	162.9



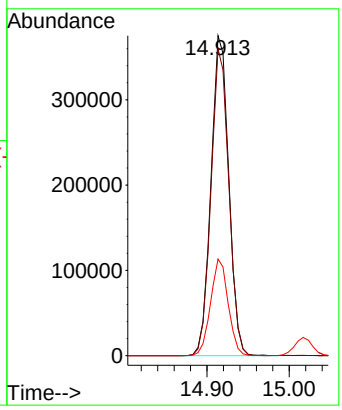


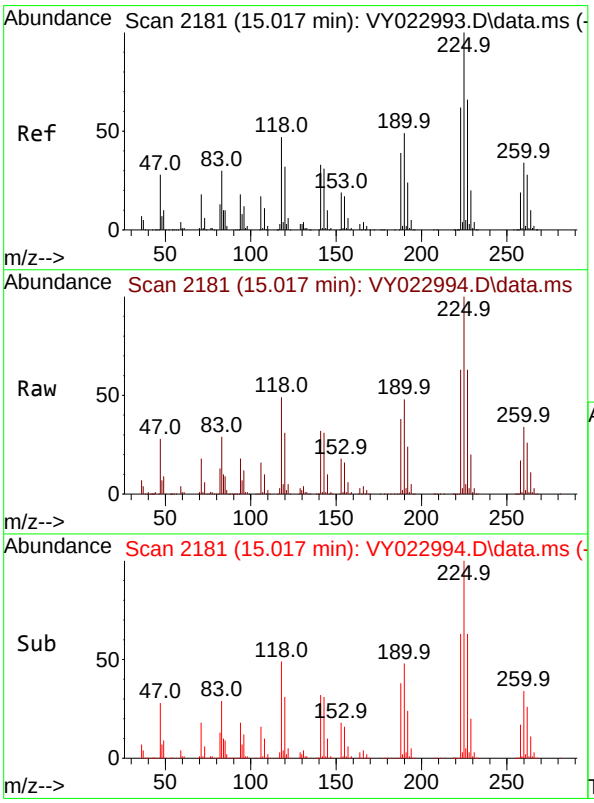
#93
1,2,4-Trichlorobenzene
Concen: 101.574 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 563754

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.5
145	29.9	14.9	44.9

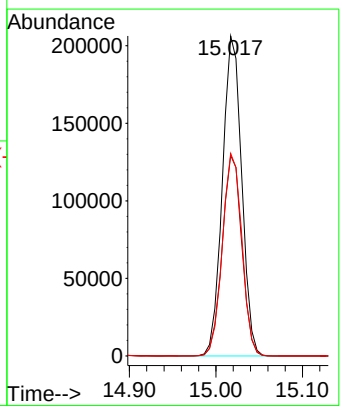


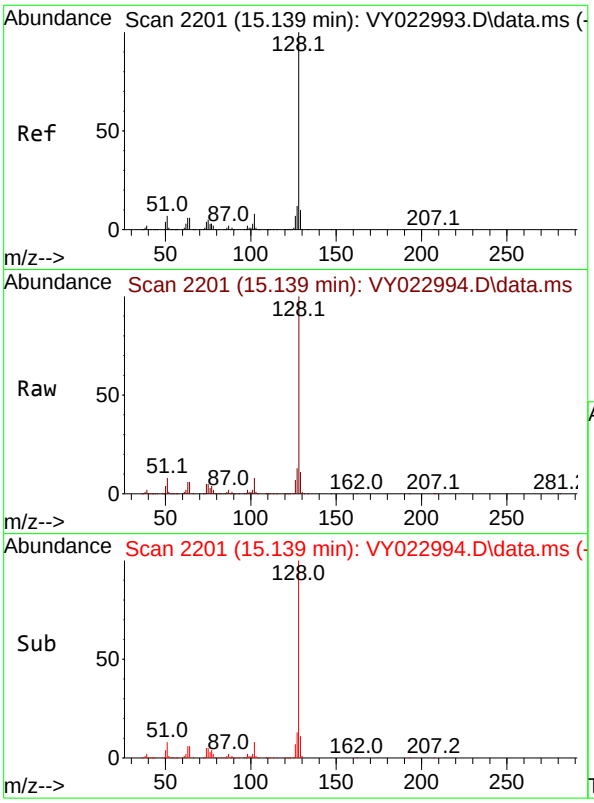


#94
Hexachlorobutadiene
Concen: 91.031 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:225 Resp: 318528

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.4	94.0
227	64.2	32.1	96.5



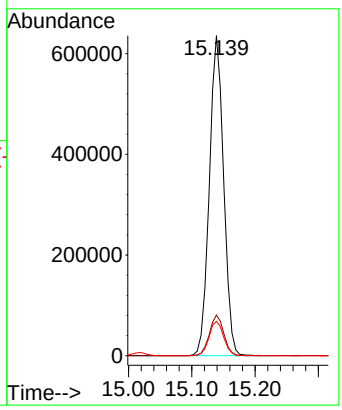


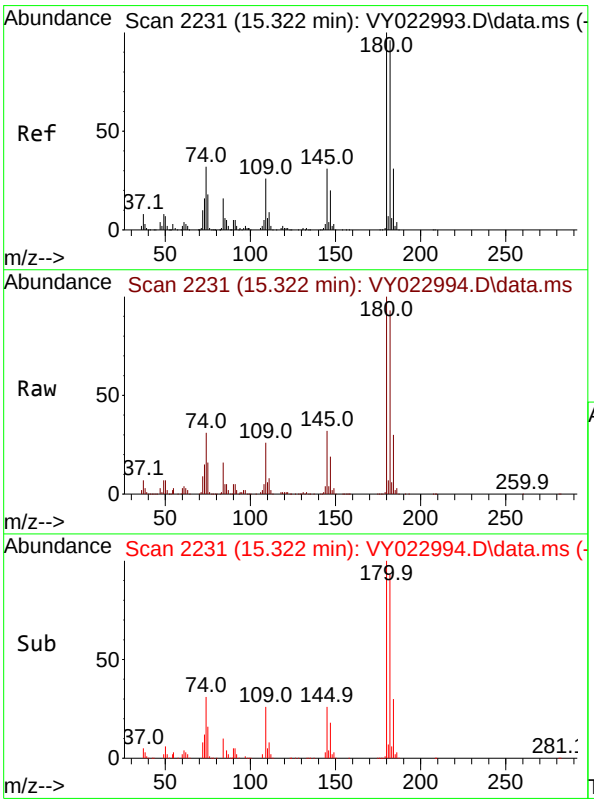
#95
Naphthalene
Concen: 112.148 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 998336

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.6	12.8

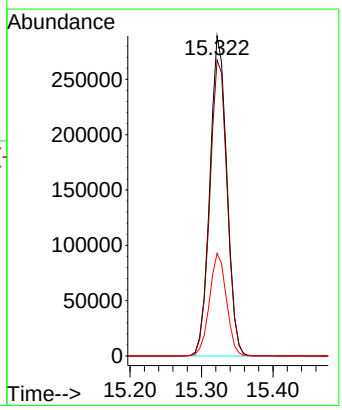




#96
1,2,3-Trichlorobenzene
Concen: 104.109 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY022994.D
Acq: 18 Jul 2025 12:27

Tgt Ion:180 Resp: 477101

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	142.0
145	31.9	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	507576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	818041	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	713048	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	341818	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	759333	147.778	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 295.560%#			
35) Dibromofluoromethane	7.634	113	769587	148.308	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 296.620%#			
50) Toluene-d8	10.103	98	3030762	147.281	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 294.560%#			
62) 4-Bromofluorobenzene	12.401	95	996296	153.805	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 307.600%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	554056	128.556	ug/l	99
3) Chloromethane	2.068	50	1009184	137.710	ug/l	99
4) Vinyl Chloride	2.208	62	1262771	136.010	ug/l	99
5) Bromomethane	2.586	94	965846	144.140	ug/l	99
6) Chloroethane	2.732	64	863223	139.213	ug/l	96
7) Trichlorofluoromethane	3.056	101	1472609	136.637	ug/l	98
8) Diethyl Ether	3.458	74	405153	143.632	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	757731	133.835	ug/l	99
10) Methyl Iodide	4.000	142	917876	156.057	ug/l	99
11) Tert butyl alcohol	4.866	59	250970	803.224	ug/l	99
12) 1,1-Dichloroethene	3.787	96	755004	139.985	ug/l	98
13) Acrolein	3.653	56	64898	460.788	ug/l	95
14) Allyl chloride	4.385	41	1226641	149.283	ug/l	99
15) Acrylonitrile	5.055	53	849674	795.253	ug/l	99
16) Acetone	3.872	43	612358	657.446	ug/l	100
17) Carbon Disulfide	4.104	76	2245565	137.375	ug/l	99
18) Methyl Acetate	4.385	43	554000	175.686	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	2069795	159.995	ug/l	100
20) Methylene Chloride	4.616	84	875539	150.366	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	874496	145.658	ug/l	99
22) Diisopropyl ether	6.018	45	2698023	154.774	ug/l	99
23) Vinyl Acetate	5.957	43	7048997	802.533	ug/l	100
24) 1,1-Dichloroethane	5.915	63	1599724	146.106	ug/l	99
25) 2-Butanone	6.896	43	1064091	796.353	ug/l	100
26) 2,2-Dichloropropane	6.884	77	1381568	143.975	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	1045626	151.118	ug/l	100
28) Bromochloromethane	7.244	49	628281	147.946	ug/l	99
29) Tetrahydrofuran	7.262	42	706173	834.735	ug/l	98
30) Chloroform	7.421	83	1598800	144.750	ug/l	99
31) Cyclohexane	7.701	56	1397744	136.623	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	1442504	143.937	ug/l	99
36) 1,1-Dichloropropene	7.835	75	1177815	144.097	ug/l	99
37) Ethyl Acetate	6.982	43	463547	152.699	ug/l	99
38) Carbon Tetrachloride	7.817	117	1277517	143.863	ug/l	99
39) Methylcyclohexane	9.109	83	1558807	147.341	ug/l	99
40) Benzene	8.079	78	3629855	147.493	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	262546	163.855	ug/l		98
42) 1,2-Dichloroethane	8.158	62	921582	150.515	ug/l		99
43) Isopropyl Acetate	8.195	43	995083	165.022	ug/l	#	87
44) Trichloroethene	8.865	130	899565	142.310	ug/l		99
45) 1,2-Dichloropropane	9.140	63	849889	147.880	ug/l		99
46) Dibromomethane	9.231	93	457164	153.894	ug/l		99
47) Bromodichloromethane	9.420	83	1229904	149.779	ug/l		100
48) Methyl methacrylate	9.219	41	497091	170.750	ug/l		99
49) 1,4-Dioxane	9.225	88	105601	3372.404	ug/l		93
51) 4-Methyl-2-Pentanone	9.993	43	2619935	856.011	ug/l		98
52) Toluene	10.170	92	2355369	153.936	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	1145266	162.478	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	1347461	158.600	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	609925	156.212	ug/l		98
56) Ethyl methacrylate	10.438	69	862573	176.974	ug/l		98
57) 1,3-Dichloropropane	10.713	76	1054881	156.398	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	2122696	889.686	ug/l		100
59) 2-Hexanone	10.755	43	1763492	876.571	ug/l		97
60) Dibromochloromethane	10.908	129	812760	158.968	ug/l		100
61) 1,2-Dibromoethane	11.011	107	563050	158.800	ug/l		99
64) Tetrachloroethene	10.646	164	900940	123.614	ug/l		98
65) Chlorobenzene	11.438	112	2486956	147.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	869061	151.433	ug/l		100
67) Ethyl Benzene	11.517	91	4532458	151.974	ug/l		97
68) m/p-Xylenes	11.627	106	3508814	306.732	ug/l		97
69) o-Xylene	11.950	106	1670304	157.335	ug/l		98
70) Styrene	11.969	104	2815907	161.930	ug/l		99
71) Bromoform	12.127	173	482482	165.606	ug/l	#	99
73) Isopropylbenzene	12.249	105	4313254	148.835	ug/l		99
74) N-amyl acetate	12.066	43	927122	169.687	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	687614	163.959	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	923324	214.628	ug/l	#	100
77) Bromobenzene	12.529	156	955644	152.042	ug/l		99
78) n-propylbenzene	12.590	91	5048339	146.282	ug/l		98
79) 2-Chlorotoluene	12.676	91	2867994	147.762	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	3422881	149.755	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	231166	161.650	ug/l		96
82) 4-Chlorotoluene	12.773	91	2923682	149.351	ug/l		100
83) tert-Butylbenzene	12.993	119	3090226	149.676	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	3425217	152.237	ug/l		99
85) sec-Butylbenzene	13.170	105	4523782	146.212	ug/l		99
86) p-Isopropyltoluene	13.285	119	3849059	153.178	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	1918495	151.247	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	1805316	147.117	ug/l		100
89) n-Butylbenzene	13.615	91	3463857	149.387	ug/l		99
90) Hexachloroethane	13.877	117	755795	145.277	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	1610657	150.536	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	100462	161.332	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	886472	157.179	ug/l		100
94) Hexachlorobutadiene	15.017	225	482621	135.733	ug/l		99
95) Naphthalene	15.139	128	1635113	180.758	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	738766	158.643	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration

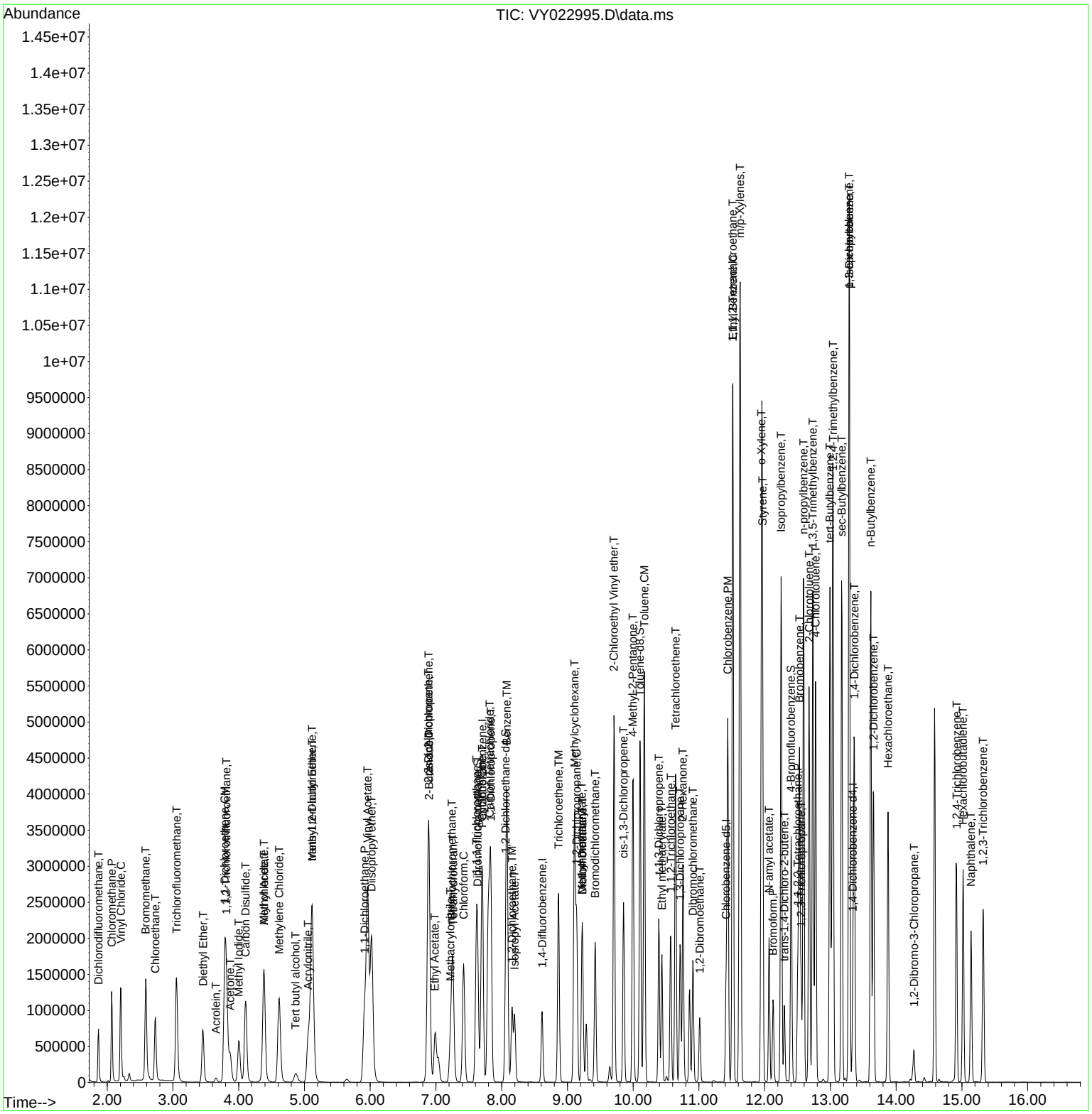
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

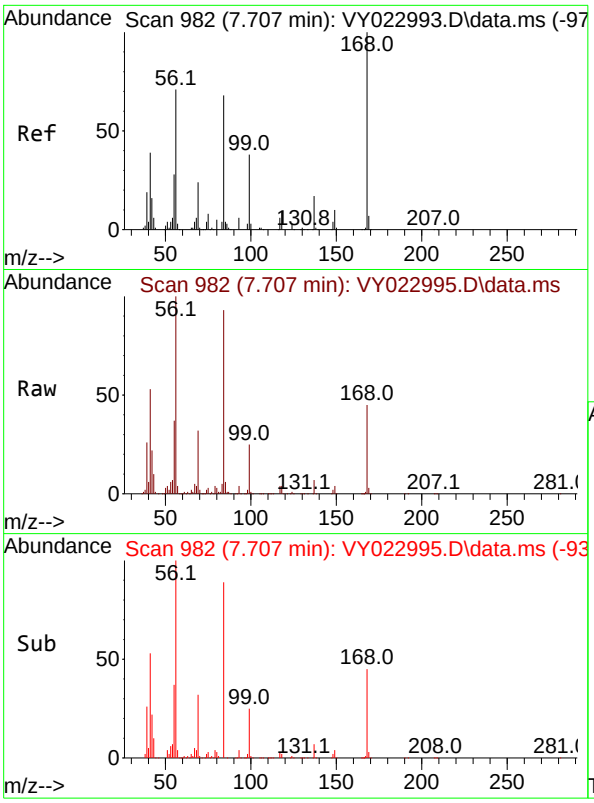
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022995.D
Acq On : 18 Jul 2025 12:49
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Jul 19 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:28:30 2025
Response via : Initial Calibration



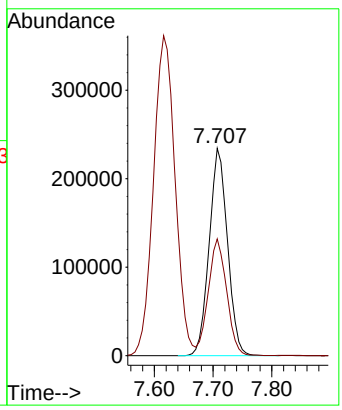


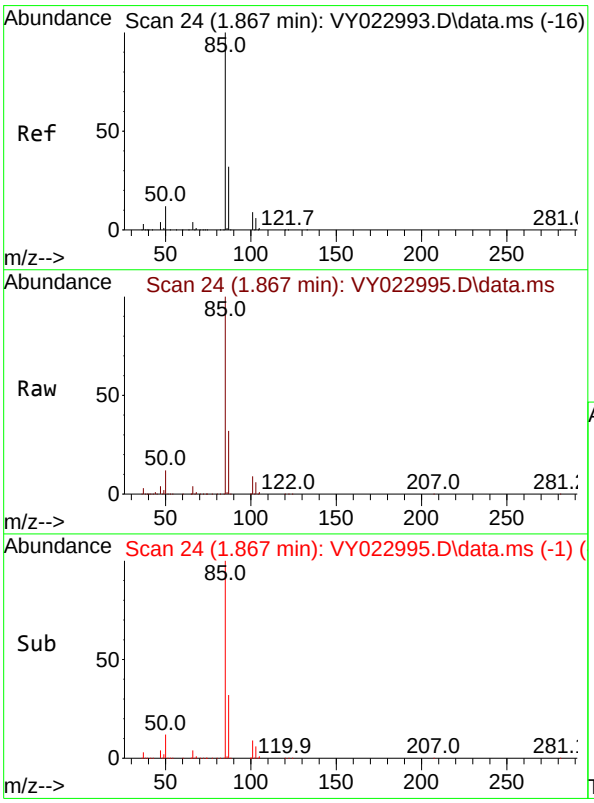
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 507576

Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.4	66.6

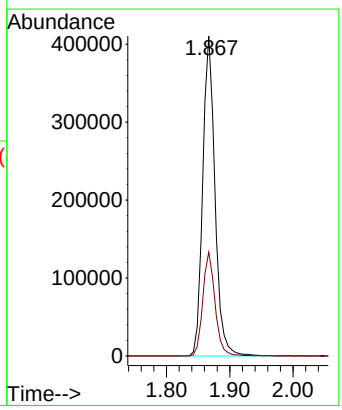


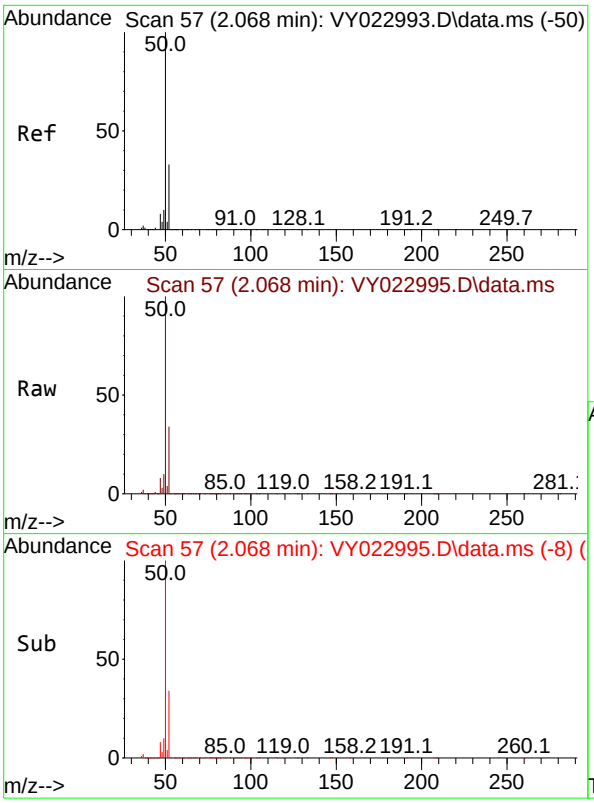


#2
Dichlorodifluoromethane
Concen: 128.556 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 85 Resp: 554056

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	47.9



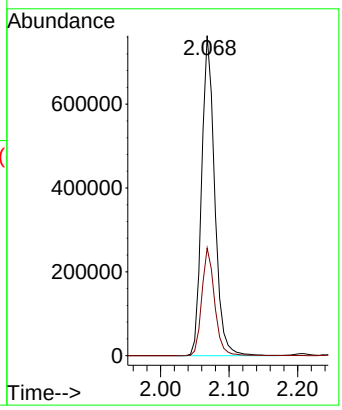


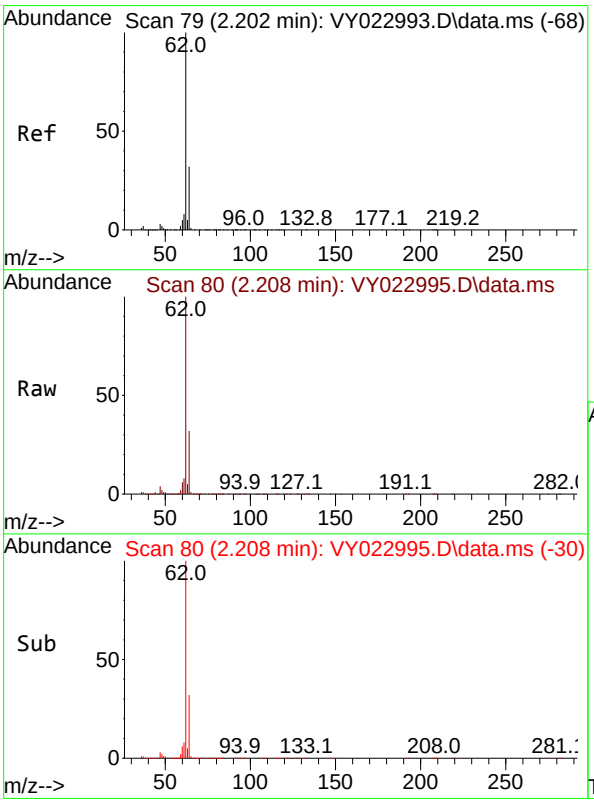
#3
Chloromethane
Concen: 137.710 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 1009184

Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.6	39.8

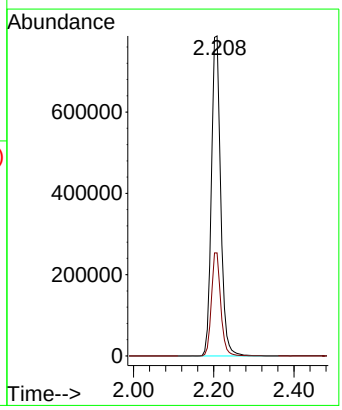


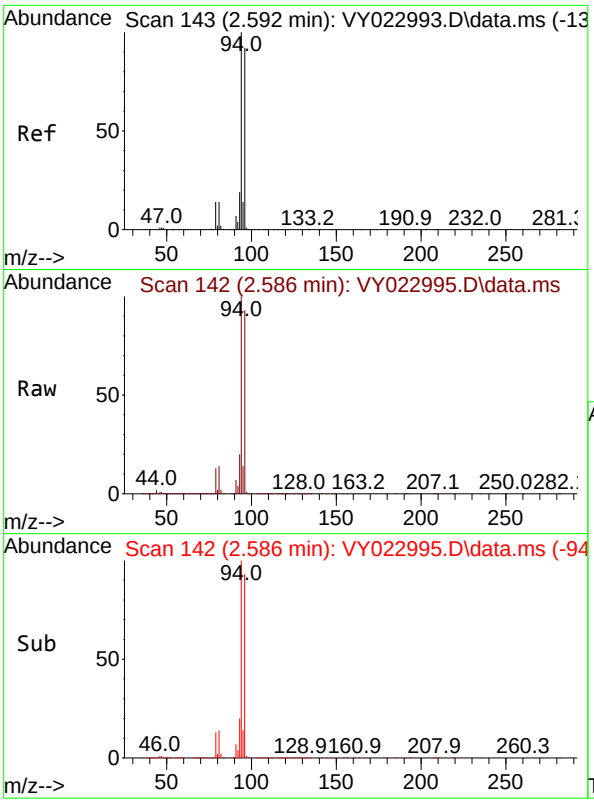


#4
Vinyl Chloride
Concen: 136.010 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 62 Resp: 1262771

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.2	37.8



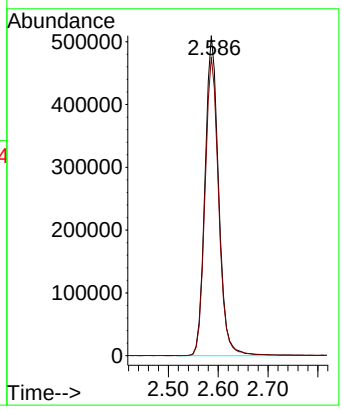


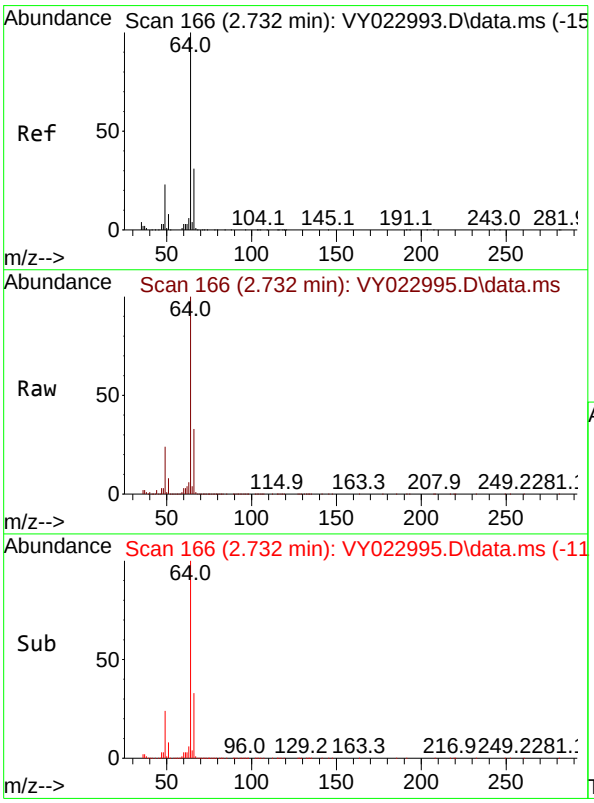
#5
Bromomethane
Concen: 144.140 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 965846

Ion	Ratio	Lower	Upper
94	100		
96	93.4	73.9	110.9

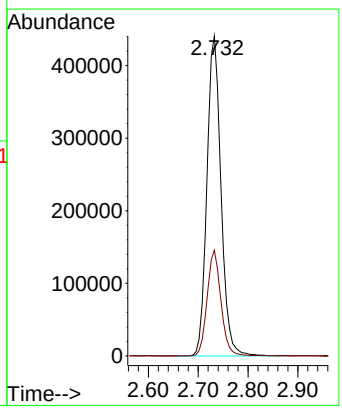


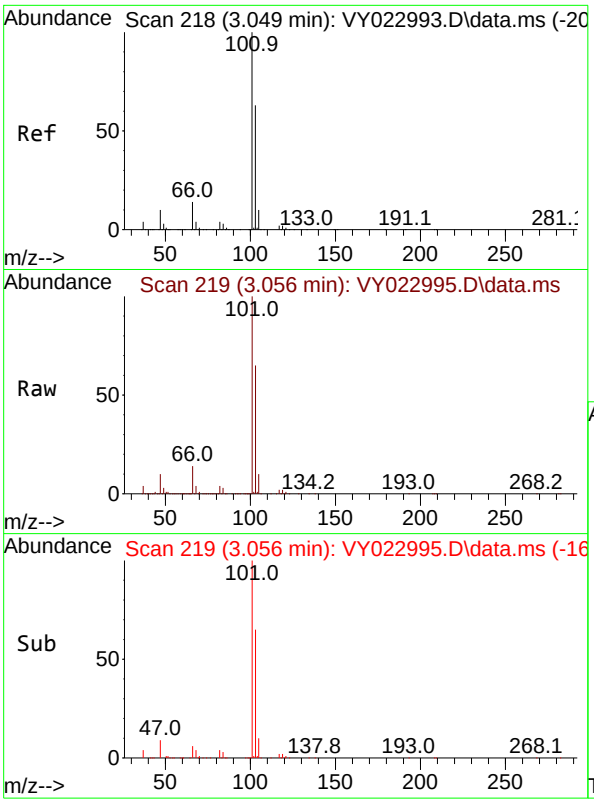


#6
Chloroethane
Concen: 139.213 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 64 Resp: 863223

Ion	Ratio	Lower	Upper
64	100		
66	33.0	24.9	37.3



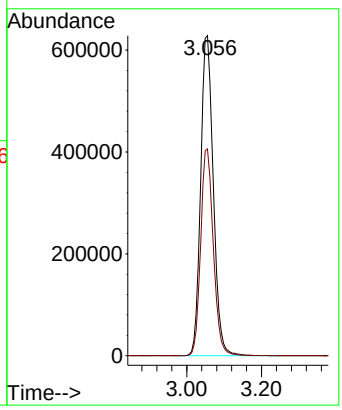


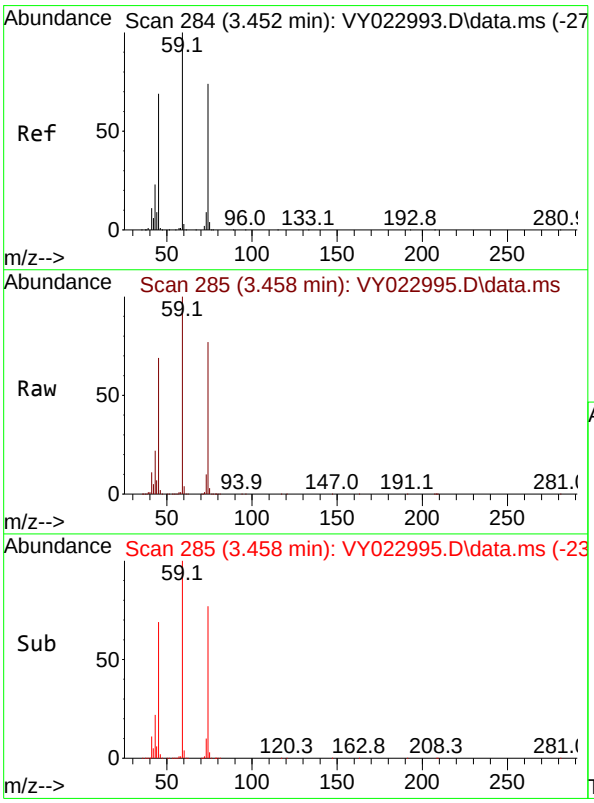
#7
Trichlorofluoromethane
Concen: 136.637 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 1472609

Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.7	76.1

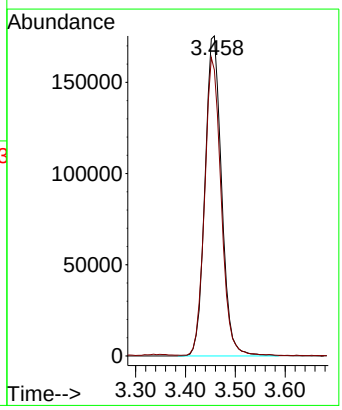


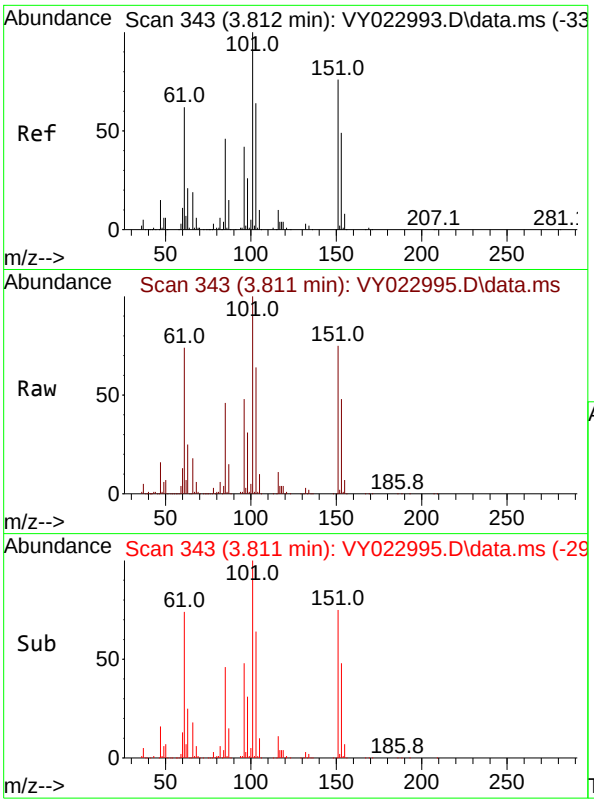


#8
Diethyl Ether
Concen: 143.632 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 74 Resp: 405153

Ion	Ratio	Lower	Upper
74	100		
45	92.8	45.1	135.2



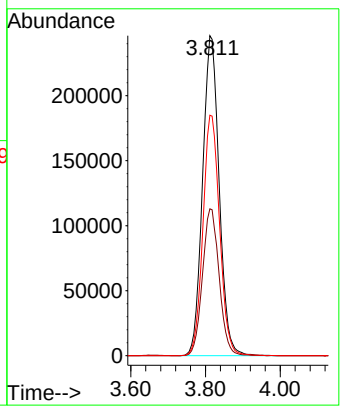


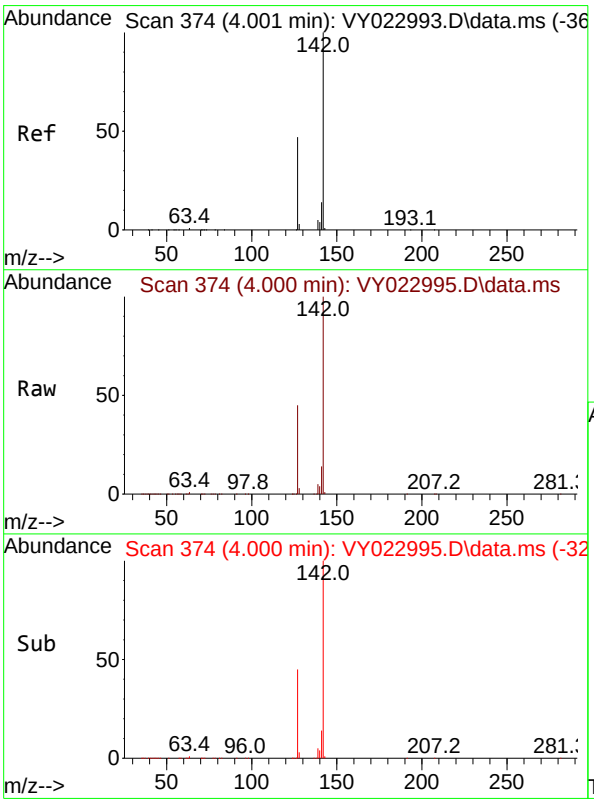
#9
1,1,2-Trichlorotrifluoroethane
Concen: 133.835 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 757731

Ion	Ratio	Lower	Upper
101	100		
85	46.1	37.2	55.8
151	75.5	59.7	89.5

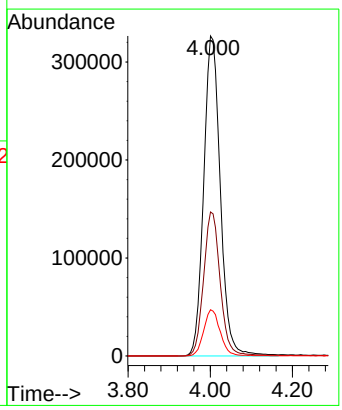


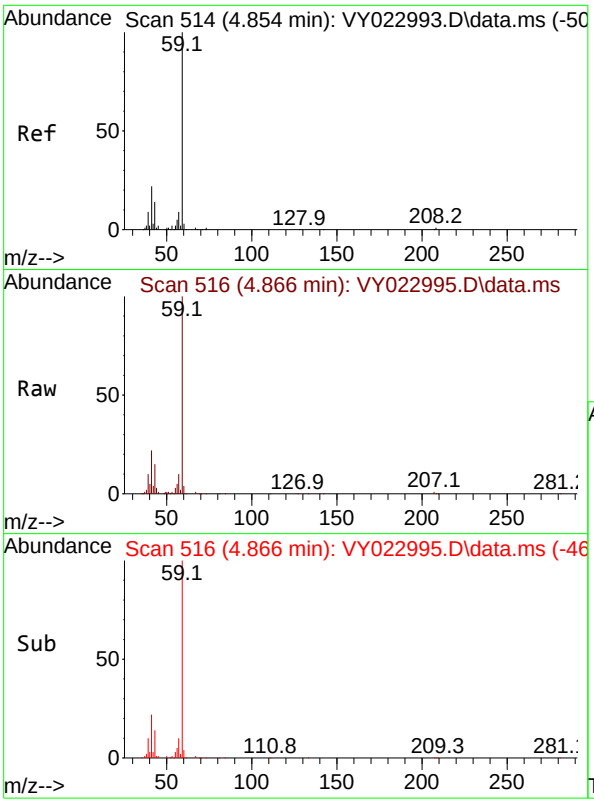


#10
Methyl Iodide
Concen: 156.057 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:142 Resp: 917876

Ion	Ratio	Lower	Upper
142	100		
127	45.1	37.0	55.6
141	14.4	11.4	17.2



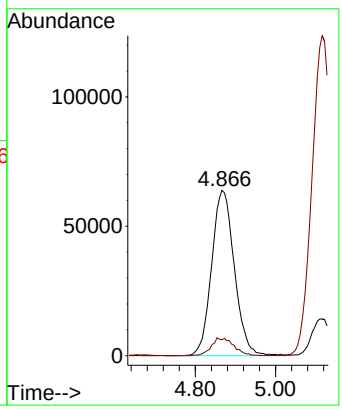


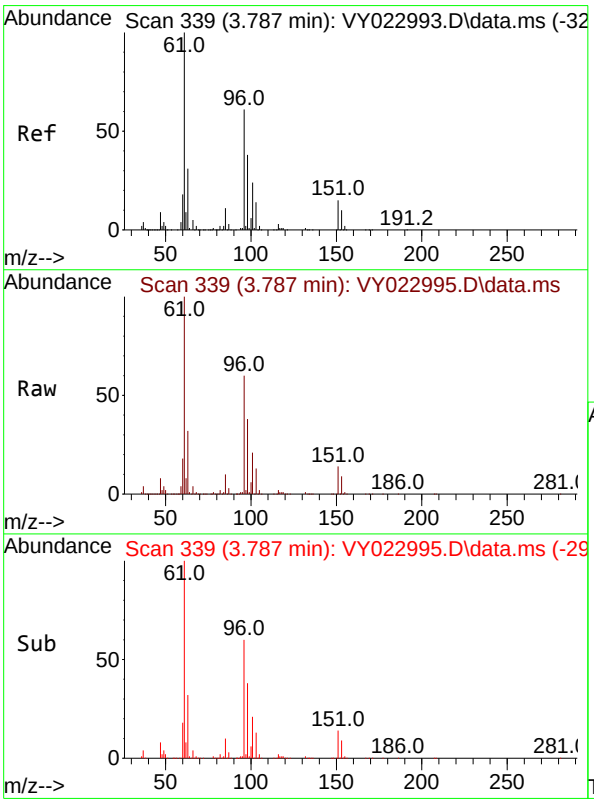
#11
Tert butyl alcohol
Concen: 803.224 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 250970

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.2

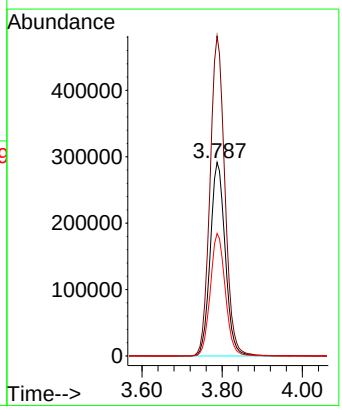


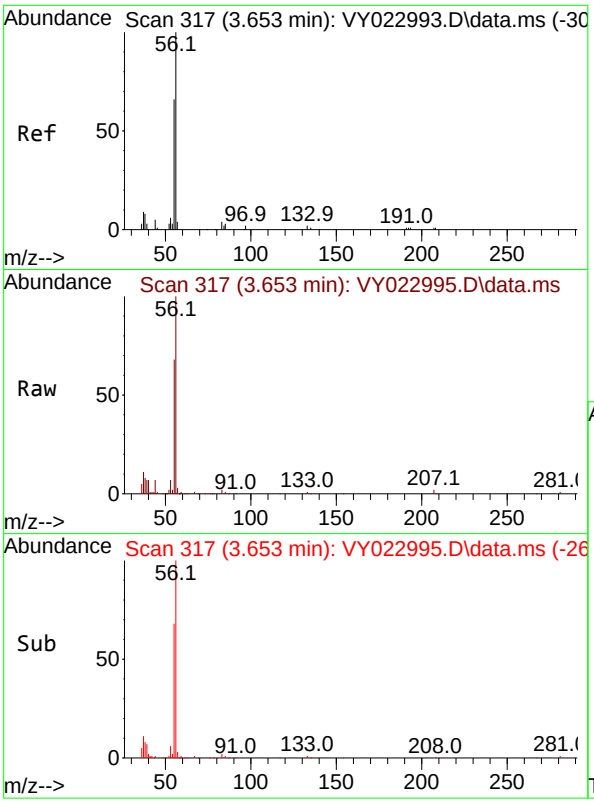


#12
1,1-Dichloroethene
Concen: 139.985 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 96 Resp: 755004

Ion	Ratio	Lower	Upper
96	100		
61	165.3	130.4	195.6
98	63.2	49.6	74.4



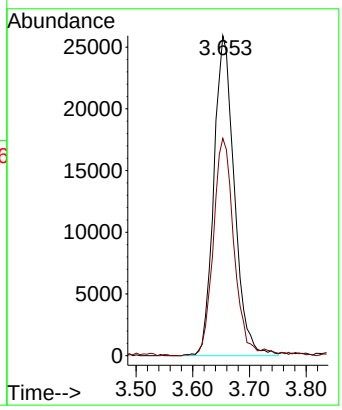


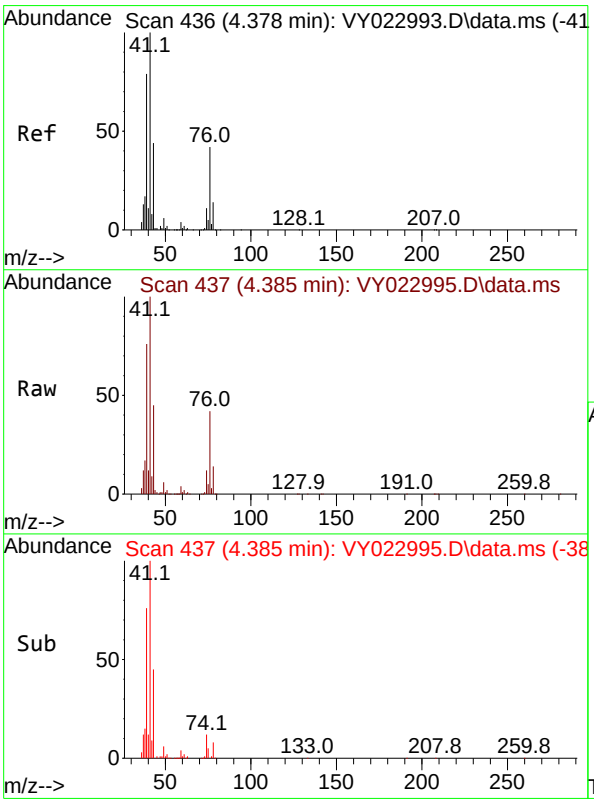
#13
Acrolein
Concen: 460.788 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 64898

Ion	Ratio	Lower	Upper
56	100		
55	68.0	57.8	86.6

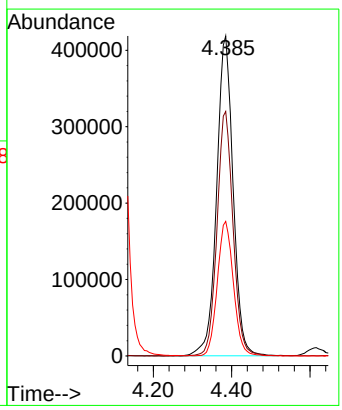


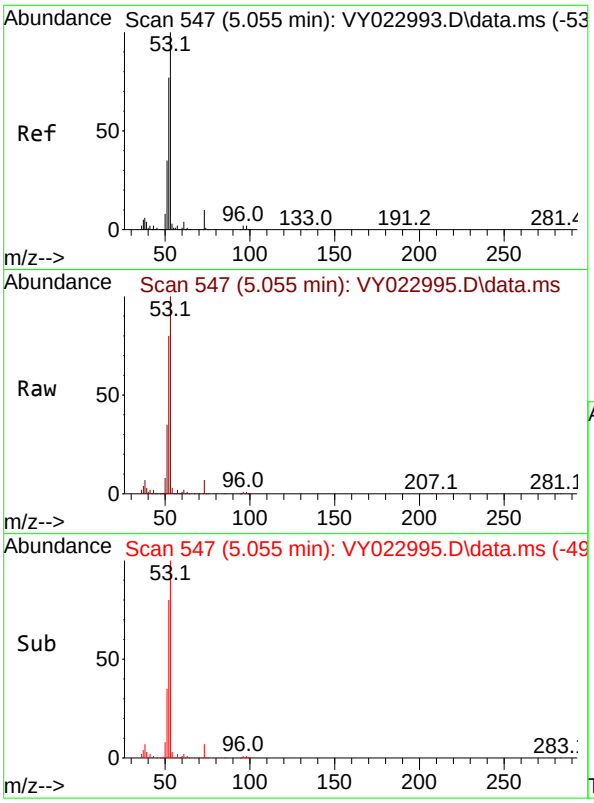


#14
Allyl chloride
Concen: 149.283 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 41 Resp: 1226641

Ion	Ratio	Lower	Upper
41	100		
39	74.5	60.1	90.1
76	41.1	32.2	48.4



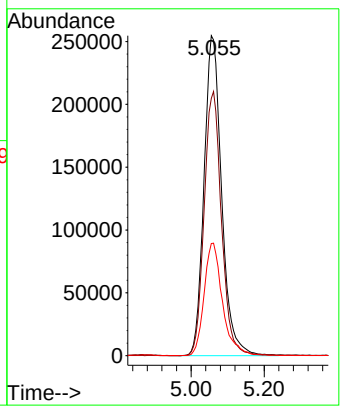


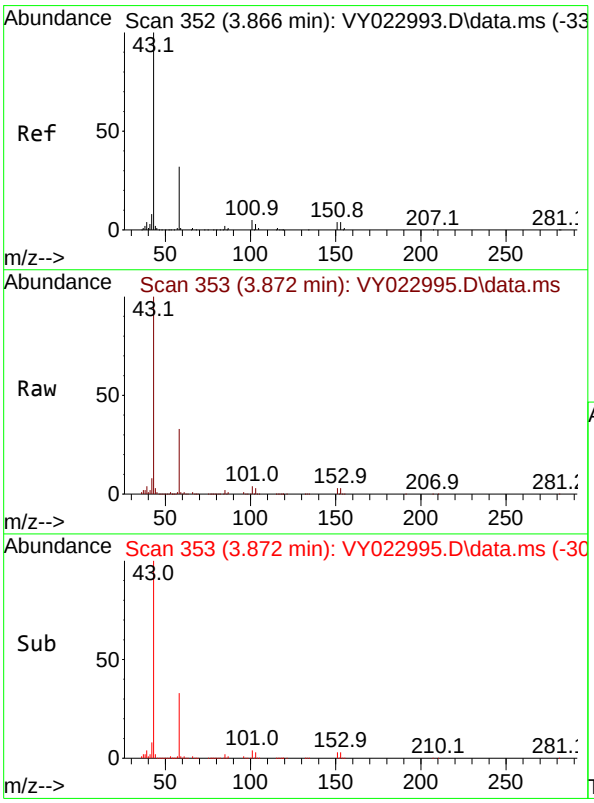
#15
Acrylonitrile
Concen: 795.253 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 849674

Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.2	97.8
51	36.8	30.3	45.5

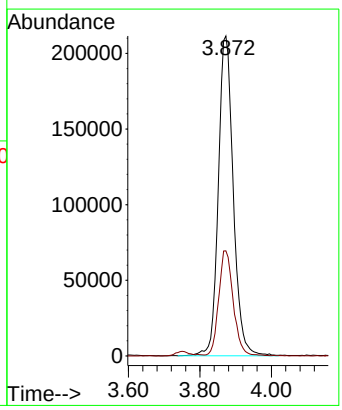


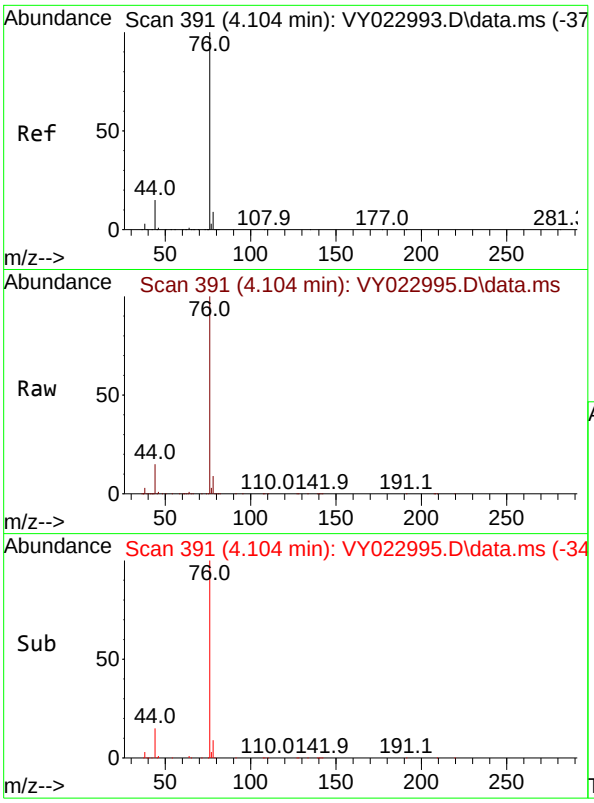


#16
Acetone
Concen: 657.446 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 612358

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.2	39.4



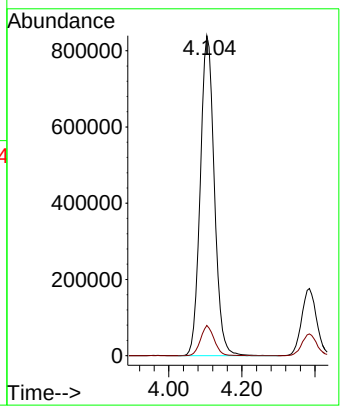


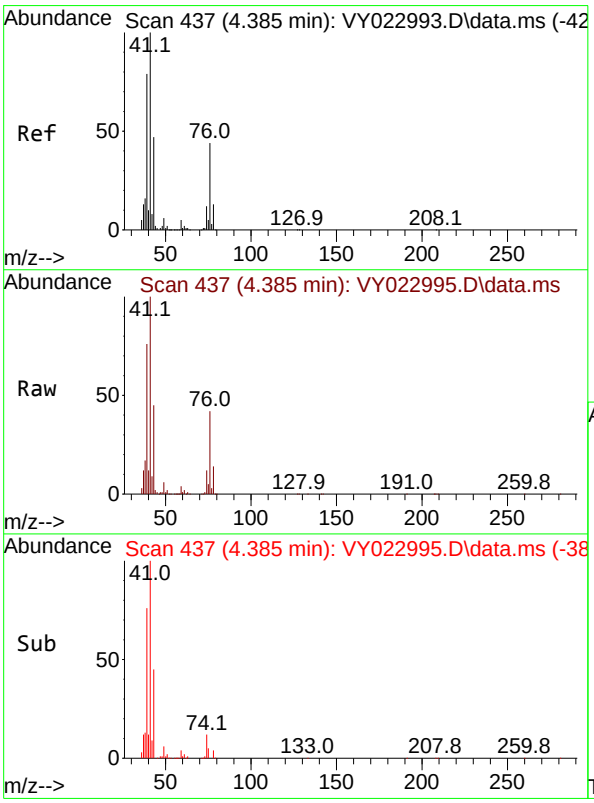
#17
Carbon Disulfide
Concen: 137.375 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 2245565

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

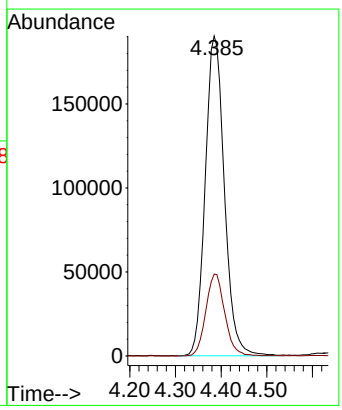


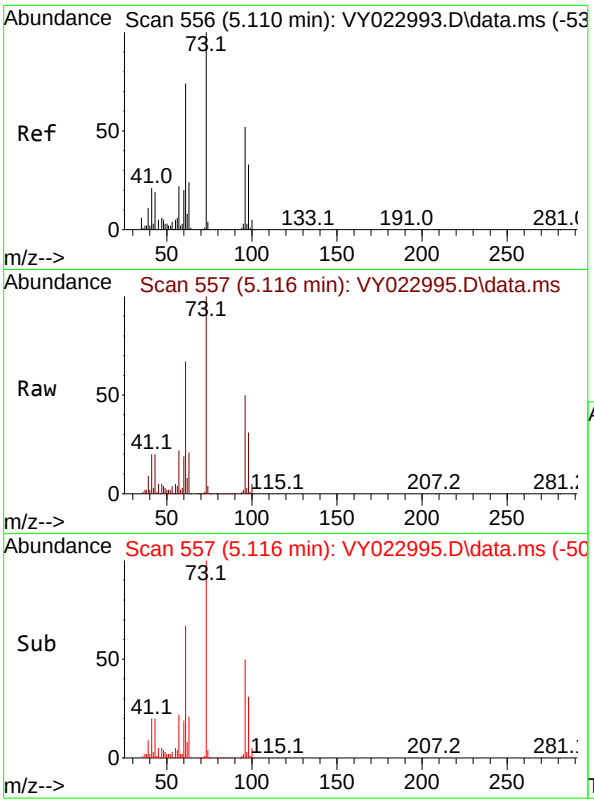


#18
Methyl Acetate
Concen: 175.686 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 554000

Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.1	30.1



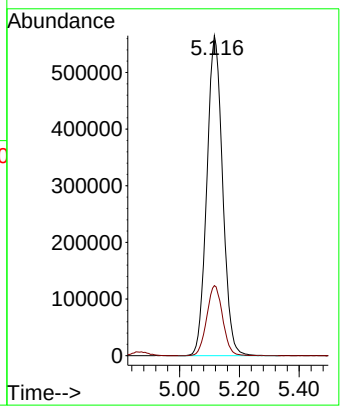


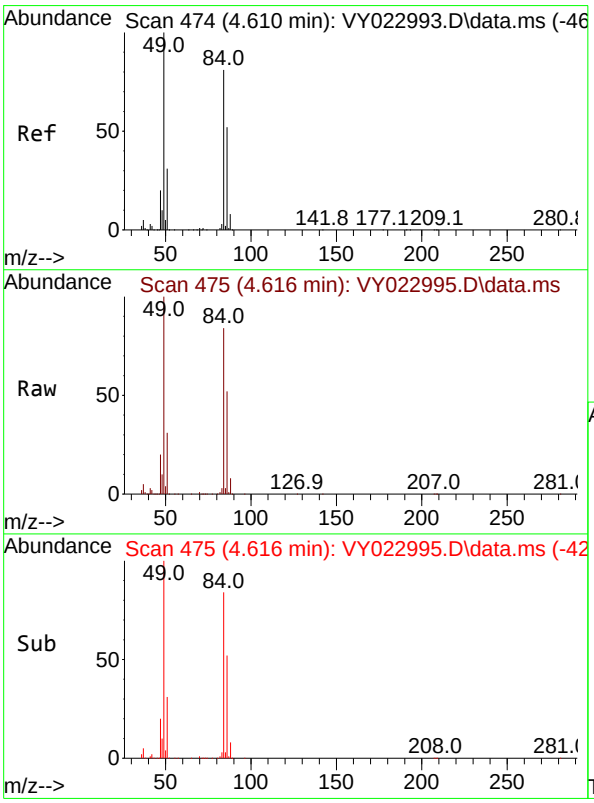
#19
Methyl tert-butyl Ether
Concen: 159.995 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 2069795

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2

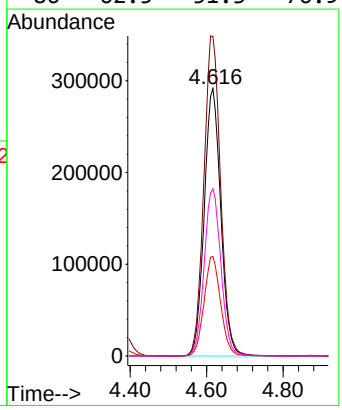


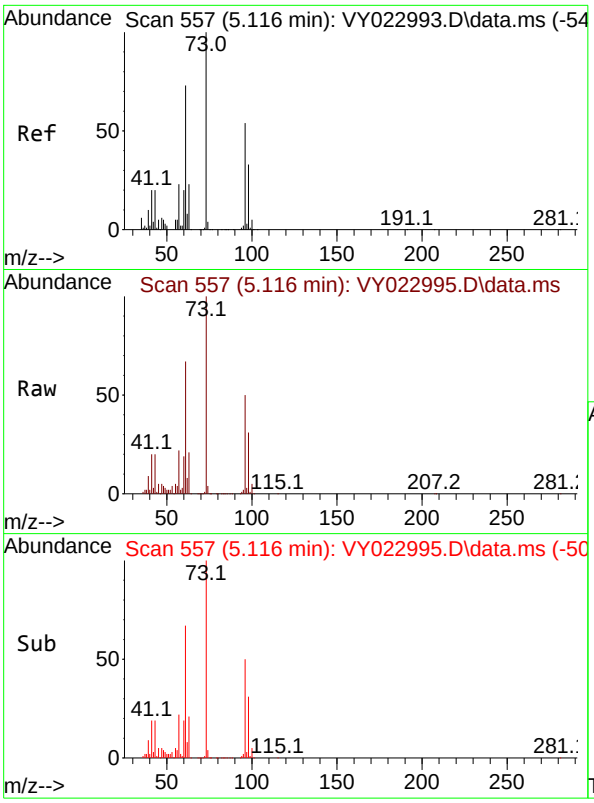


#20
Methylene Chloride
Concen: 150.366 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 84 Resp: 875539

Ion	Ratio	Lower	Upper
84	100		
49	119.5	98.2	147.4
51	37.2	30.5	45.7
86	62.5	51.3	76.9



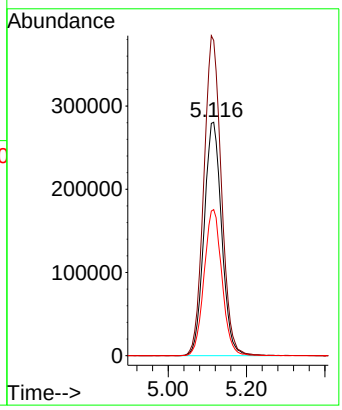


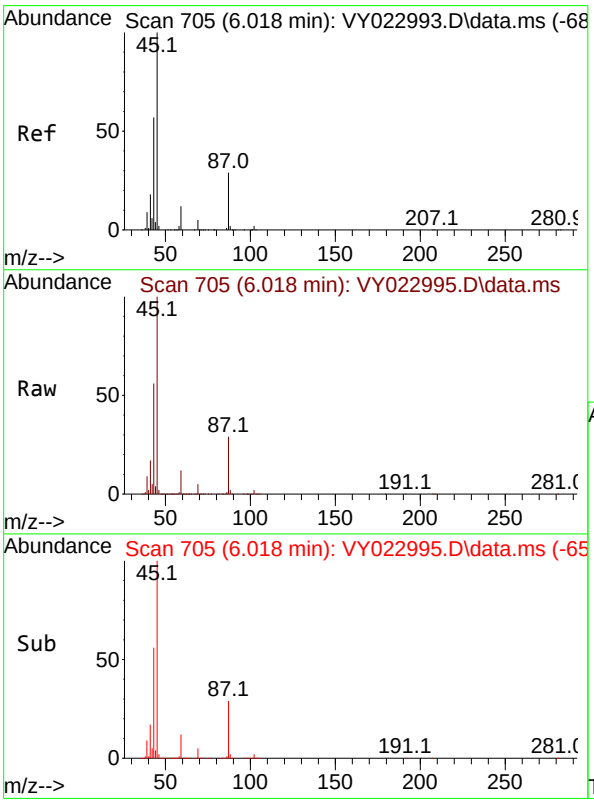
#21
trans-1,2-Dichloroethene
Concen: 145.658 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 874496

Ion	Ratio	Lower	Upper
96	100		
61	135.0	107.4	161.2
98	62.6	49.3	73.9

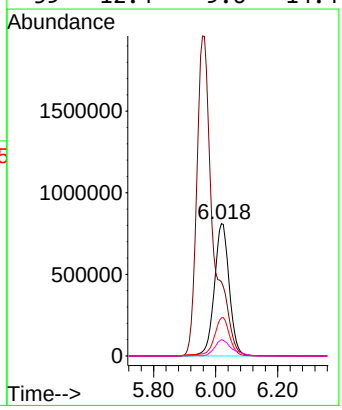


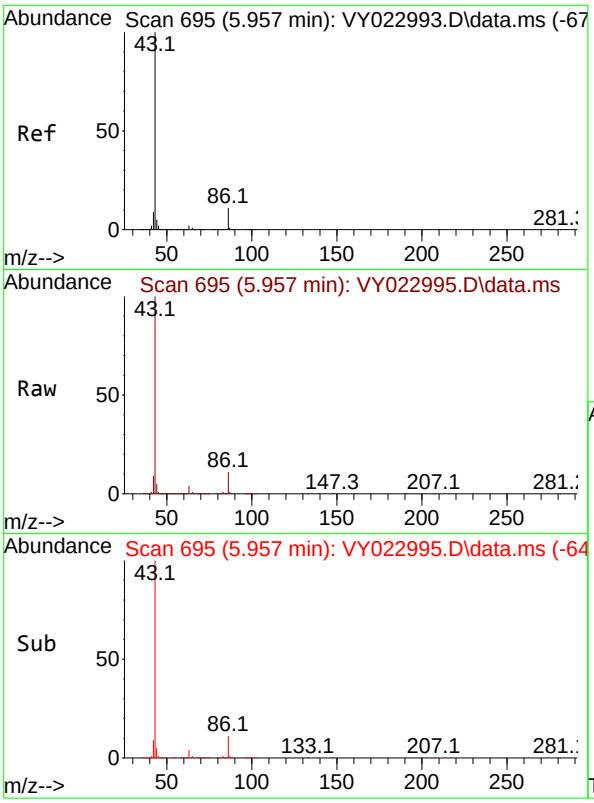


#22
Diisopropyl ether
Concen: 154.774 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 45 Resp: 2698023

Ion	Ratio	Lower	Upper
45	100		
43	55.9	45.3	67.9
87	28.8	23.3	34.9
59	12.4	9.6	14.4



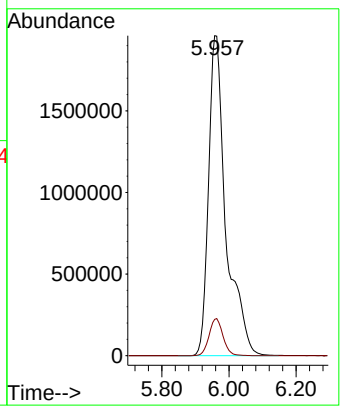


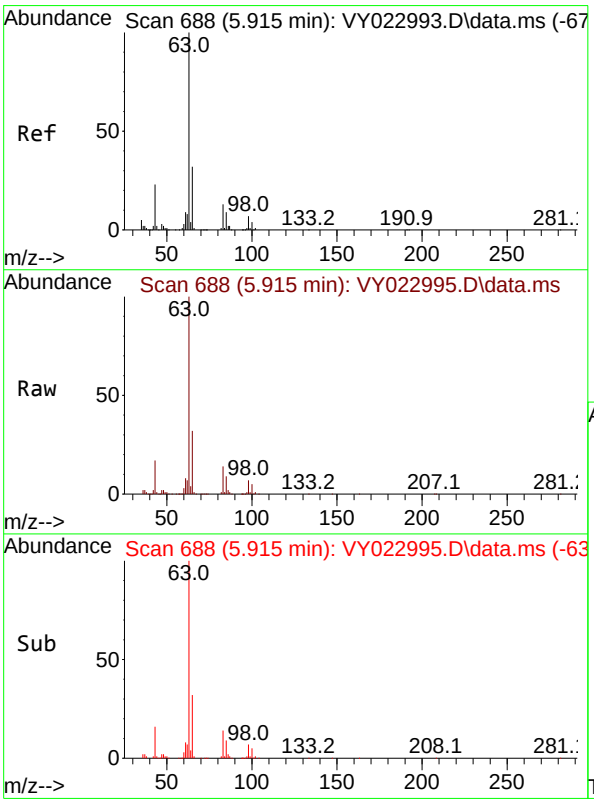
#23
Vinyl Acetate
Concen: 802.533 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 7048997

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.0	13.4

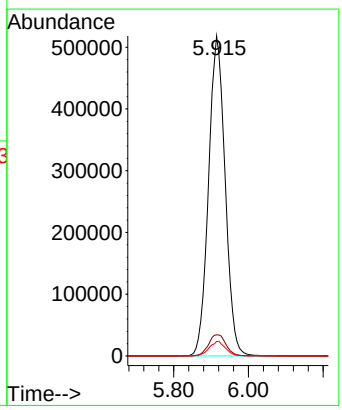


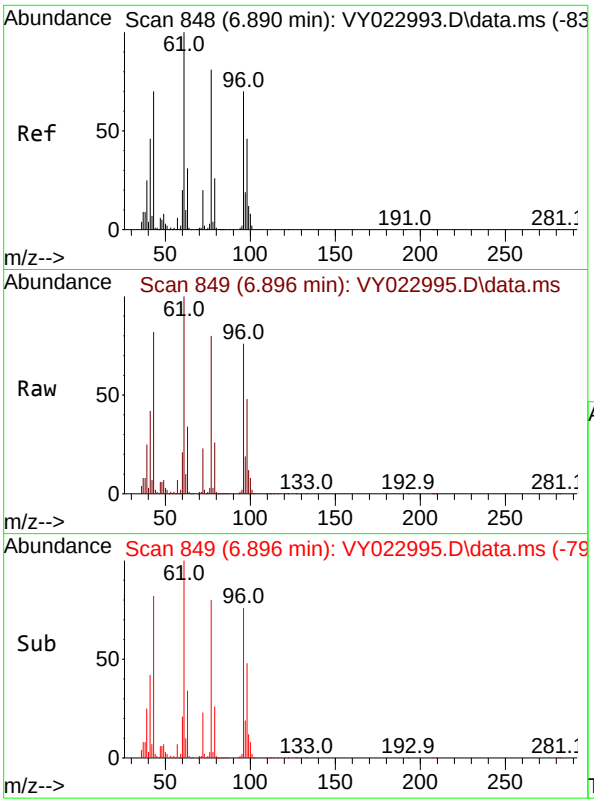


#24
1,1-Dichloroethane
Concen: 146.106 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 63 Resp: 1599724

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	4.6	2.1	6.2



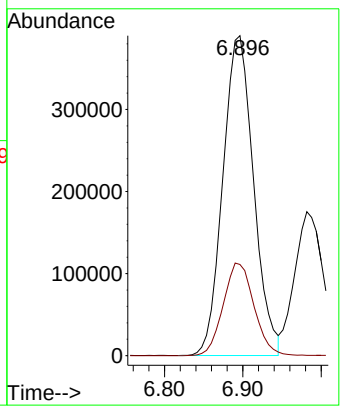


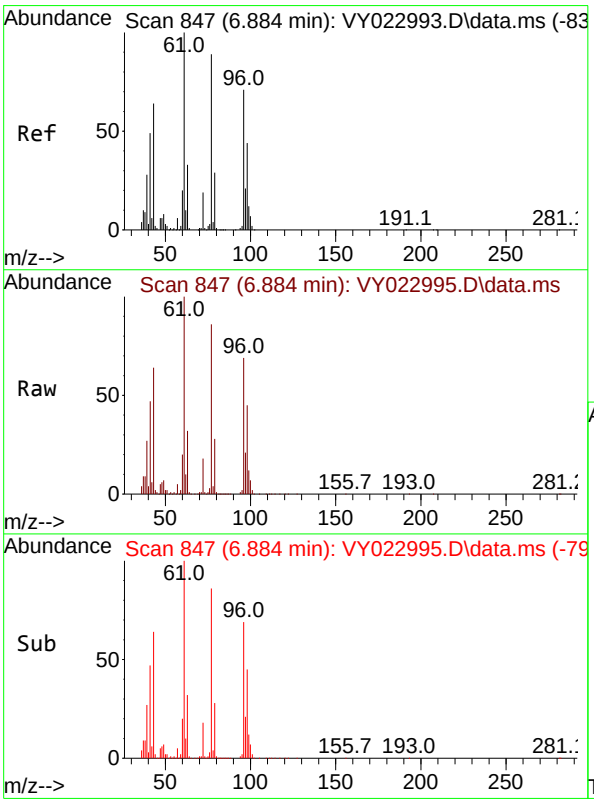
#25
2-Butanone
Concen: 796.353 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1064091

Ion	Ratio	Lower	Upper
43	100		
72	28.5	22.9	34.3

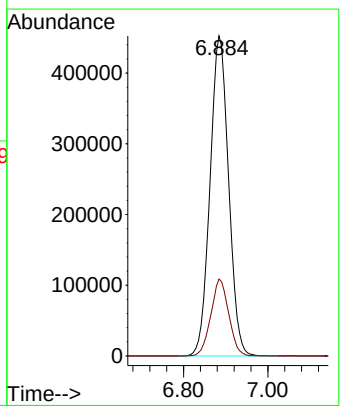


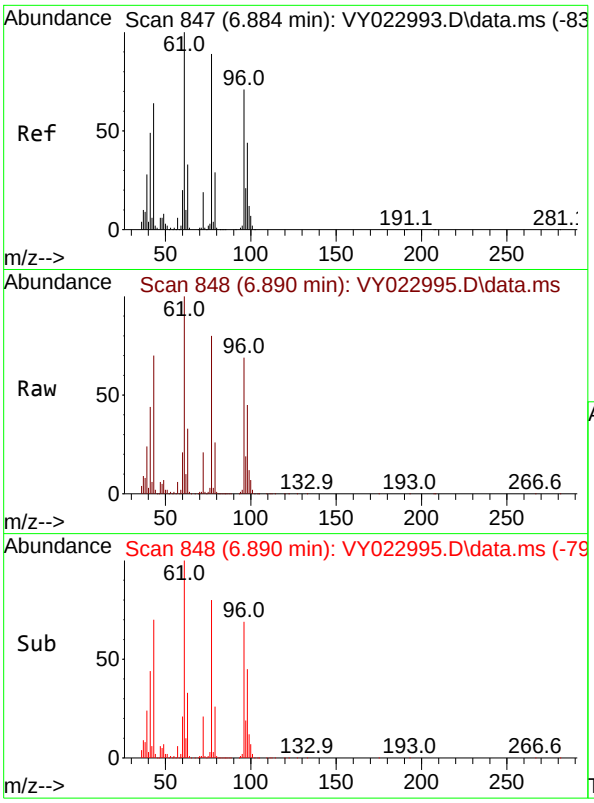


#26
2,2-Dichloropropane
Concen: 143.975 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 77 Resp: 1381568

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.3	33.9



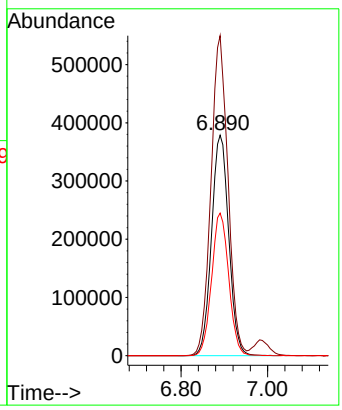


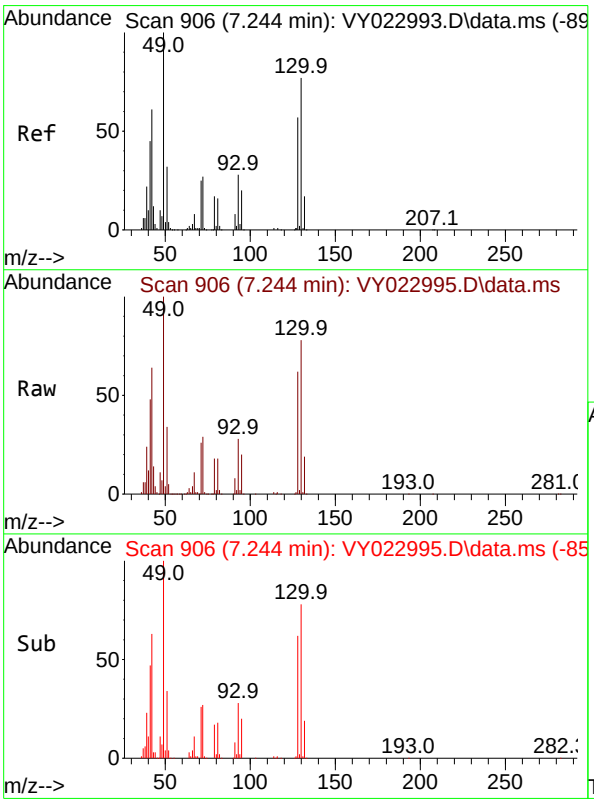
#27
cis-1,2-Dichloroethene
Concen: 151.118 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 1045626

Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	286.2
98	64.4	0.0	127.4

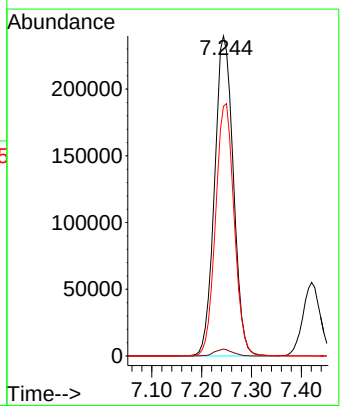


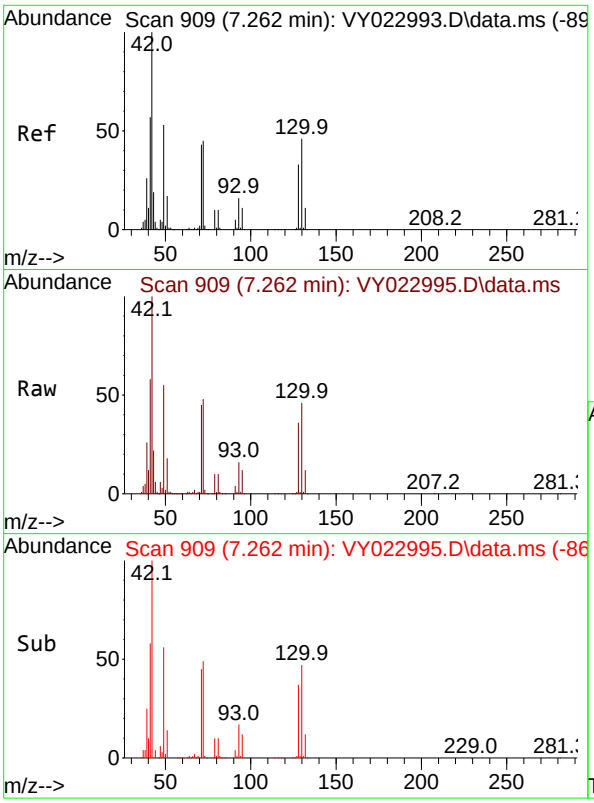


#28
Bromochloromethane
Concen: 147.946 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 49 Resp: 628281

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	77.9	61.8	92.8



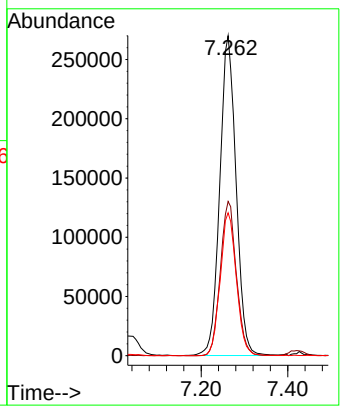


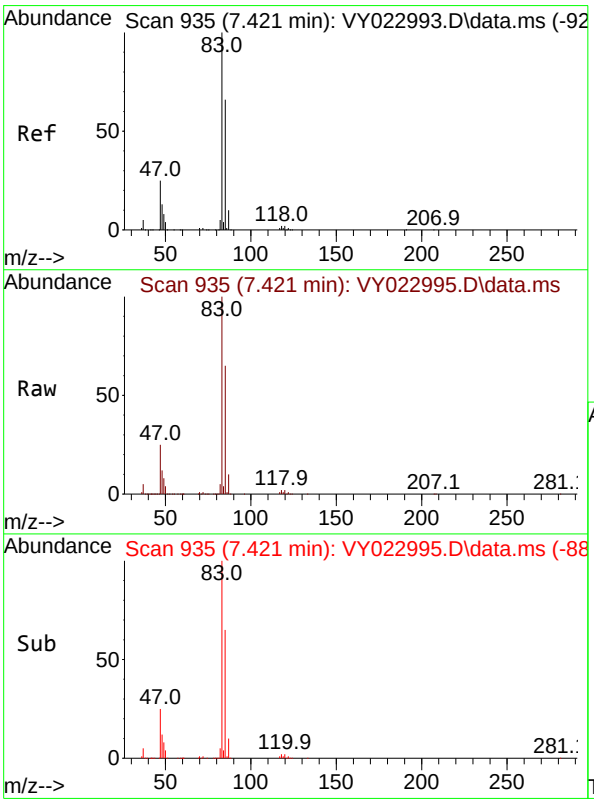
#29
Tetrahydrofuran
Concen: 834.735 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 706173

Ion	Ratio	Lower	Upper
42	100		
72	47.6	37.5	56.3
71	44.2	34.2	51.4

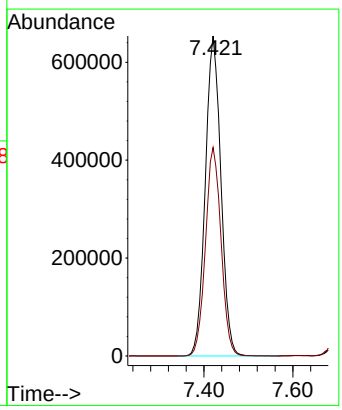


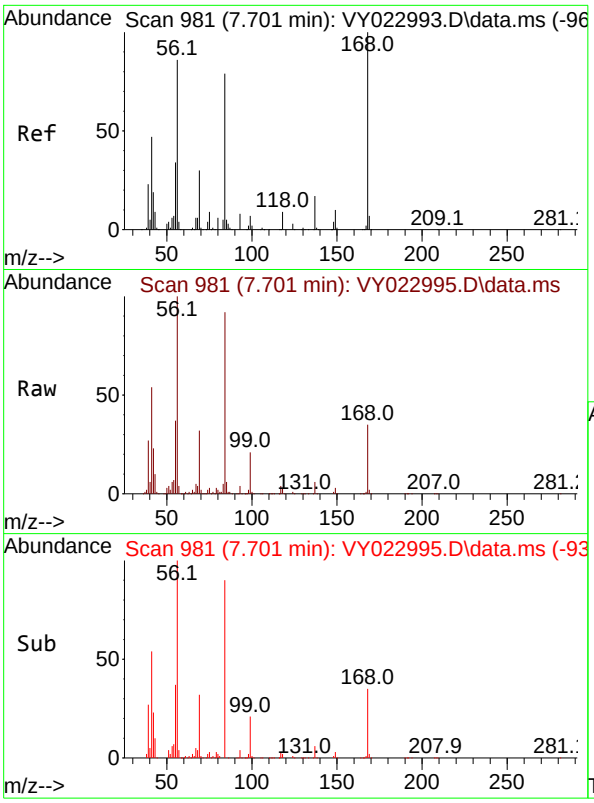


#30
Chloroform
Concen: 144.750 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 83 Resp: 1598800

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.6	78.8



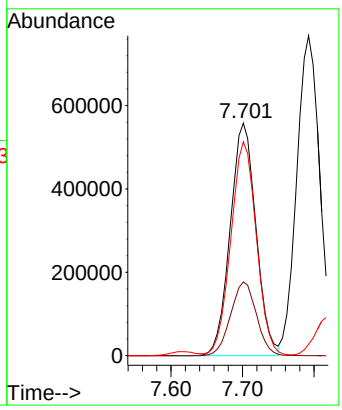


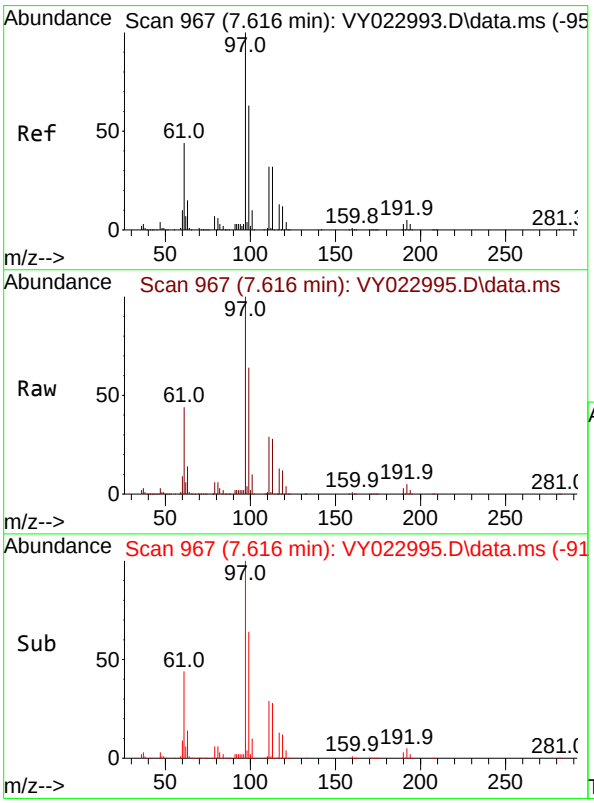
#31
Cyclohexane
Concen: 136.623 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 1397744

Ion	Ratio	Lower	Upper
56	100		
69	31.8	28.1	42.1
84	90.3	73.5	110.3

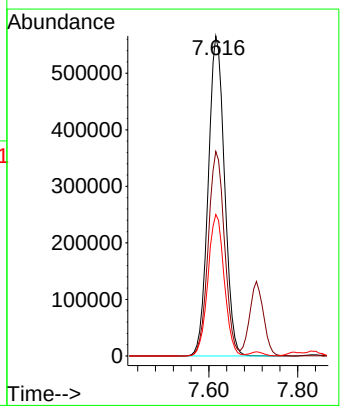


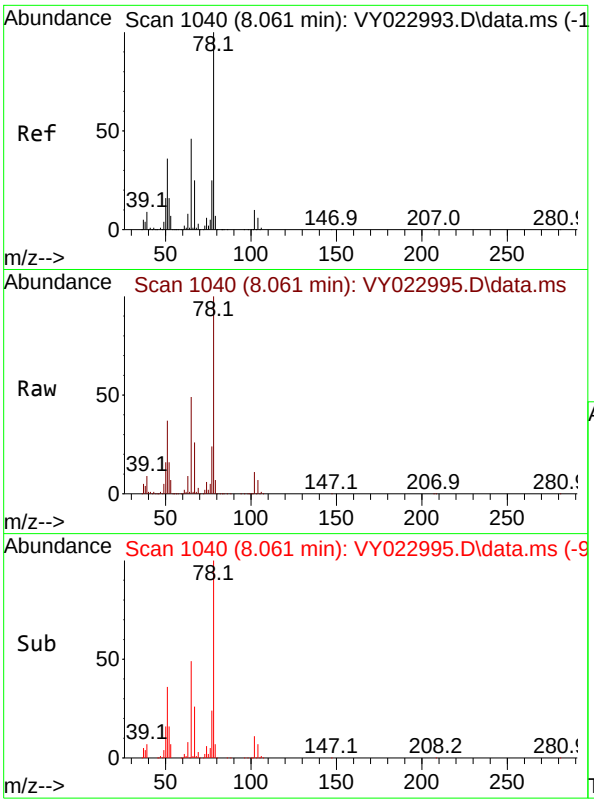


#32
1,1,1-Trichloroethane
Concen: 143.937 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 97 Resp: 1442504

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	44.3	36.1	54.1



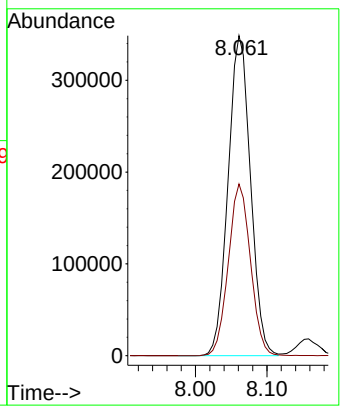


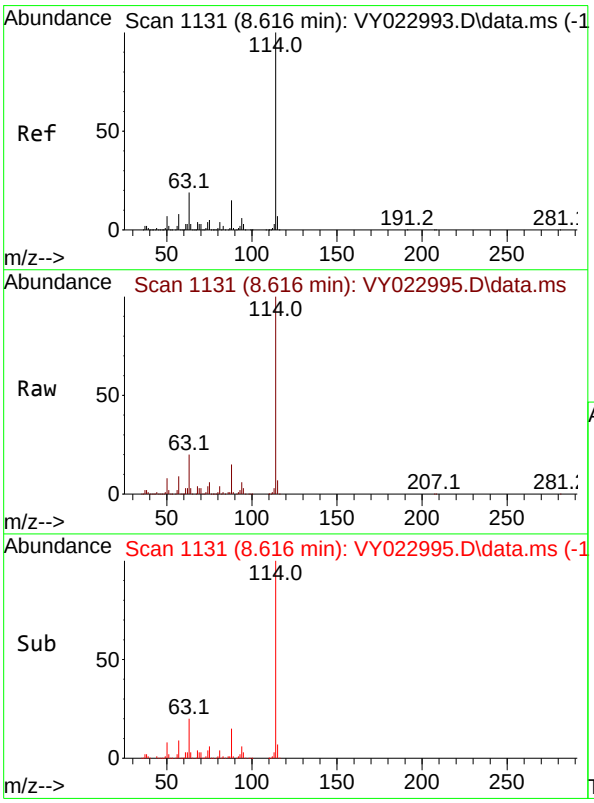
#33
1,2-Dichloroethane-d4
Concen: 147.778 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 759333

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	107.4

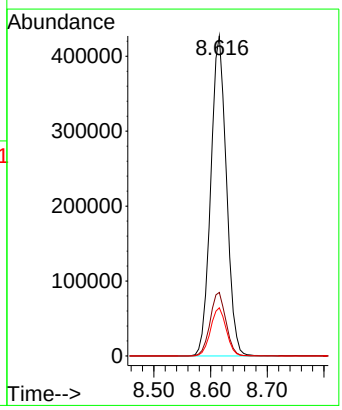


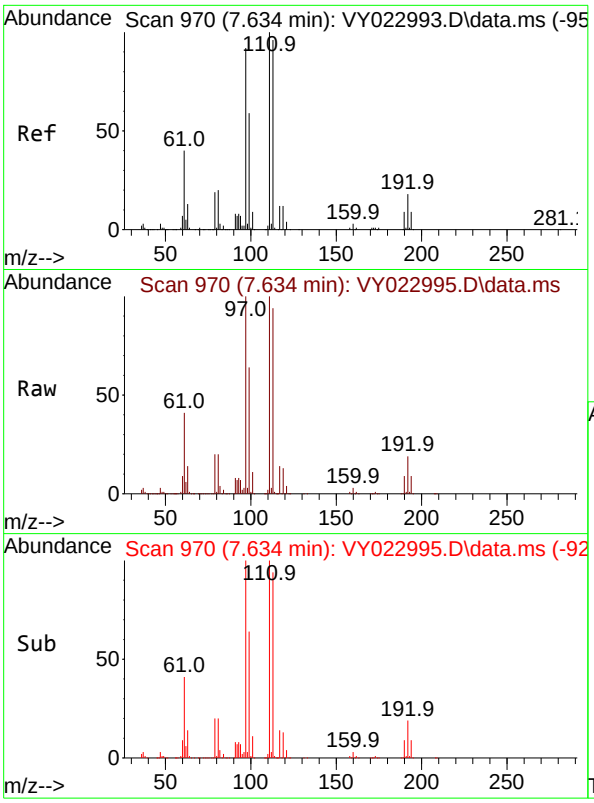


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:114 Resp: 818041

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	38.8
88	15.1	0.0	30.2



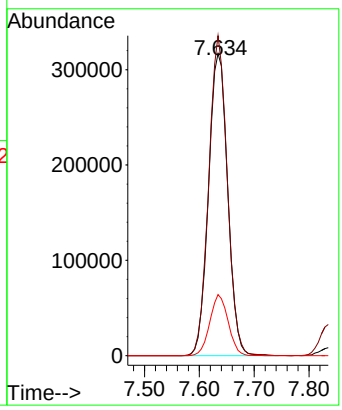


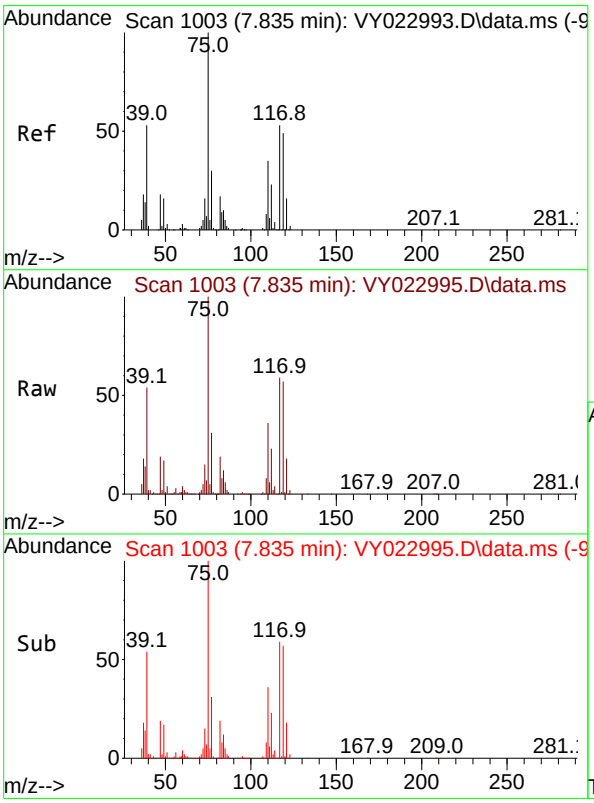
#35
Dibromofluoromethane
Concen: 148.308 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 769587

Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.2	124.8
192	19.3	15.3	22.9

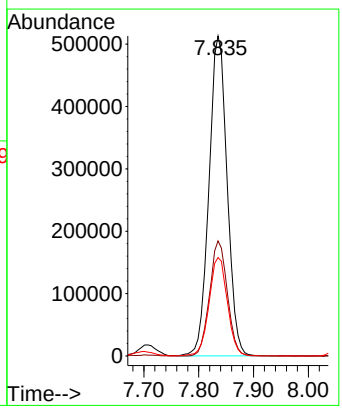


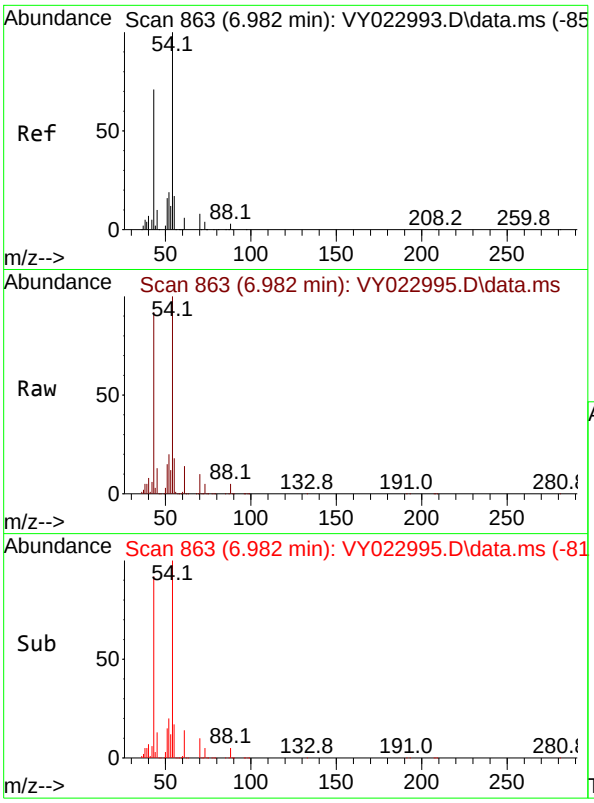


#36
1,1-Dichloropropene
Concen: 144.097 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 1177815

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	31.0	24.6	37.0



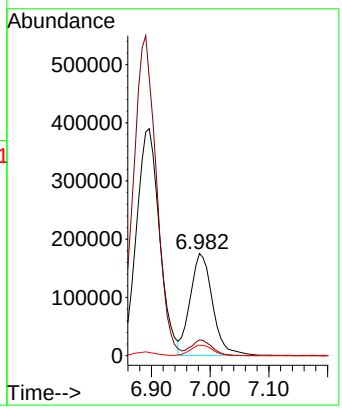


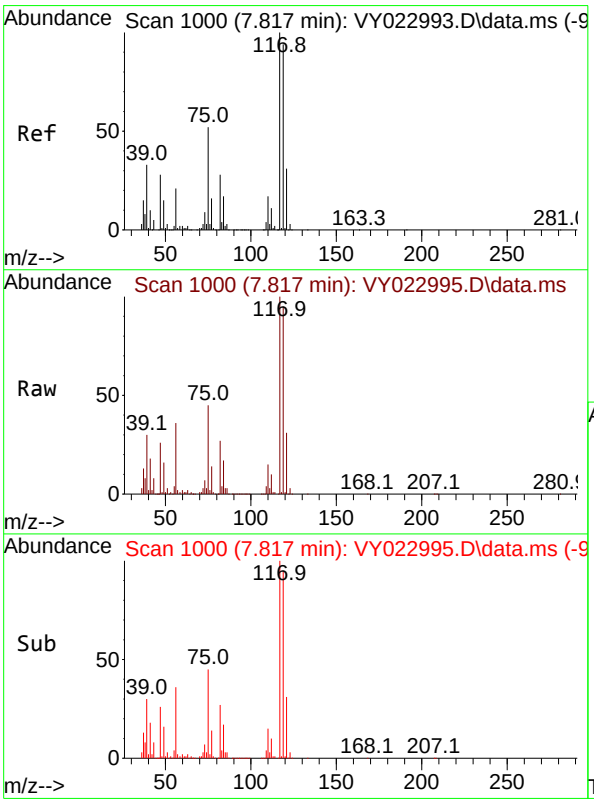
#37
Ethyl Acetate
Concen: 152.699 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 463547

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.6	17.4
70	10.2	8.5	12.7

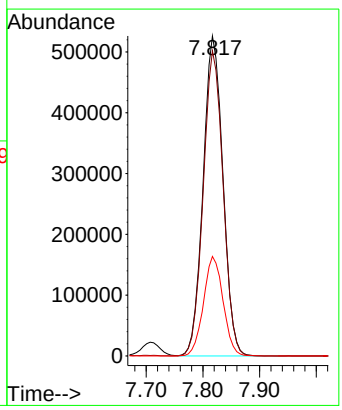


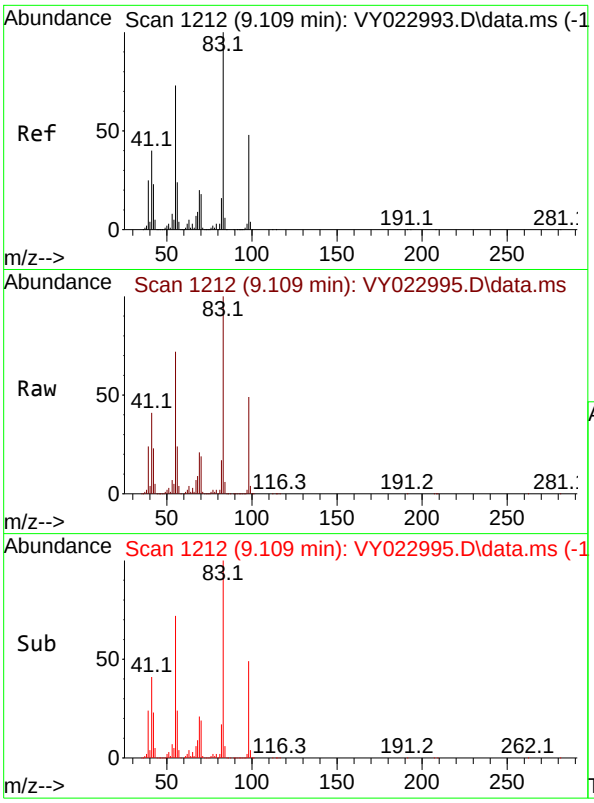


#38
Carbon Tetrachloride
Concen: 143.863 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:117 Resp: 1277517

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.9	112.3
121	31.1	24.6	37.0



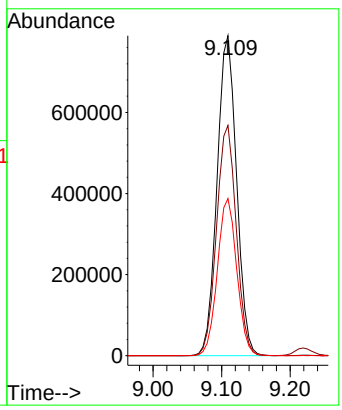


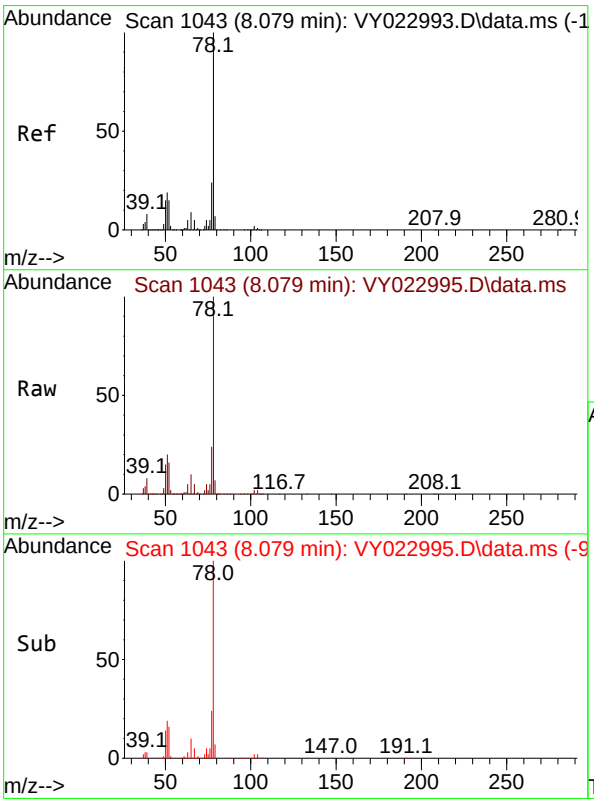
#39
Methylcyclohexane
Concen: 147.341 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 1558807

Ion	Ratio	Lower	Upper
83	100		
55	71.9	58.1	87.1
98	49.1	38.5	57.7

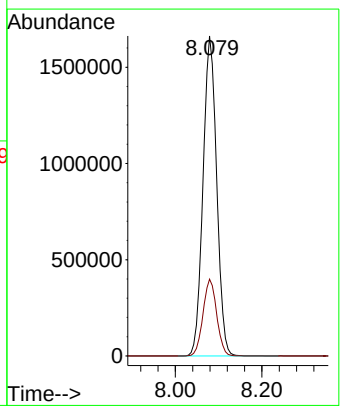


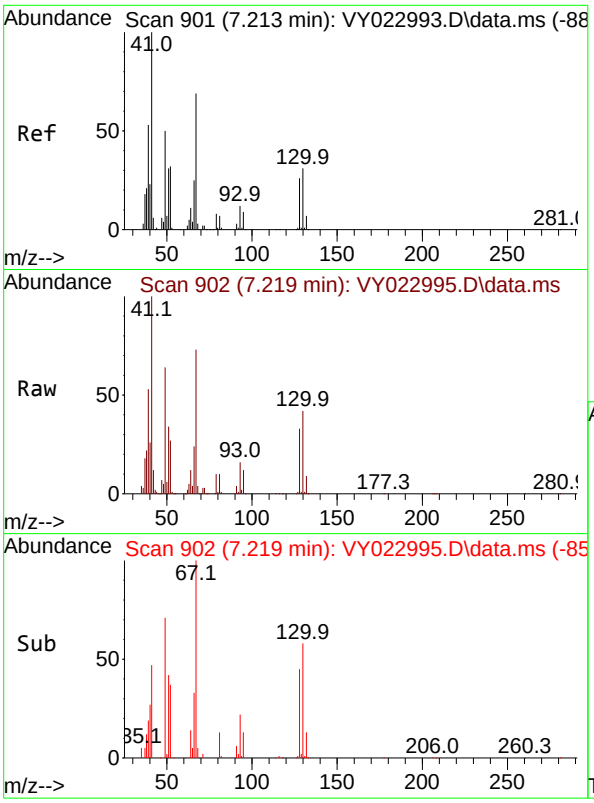


#40
Benzene
Concen: 147.493 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 78 Resp: 3629855

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4



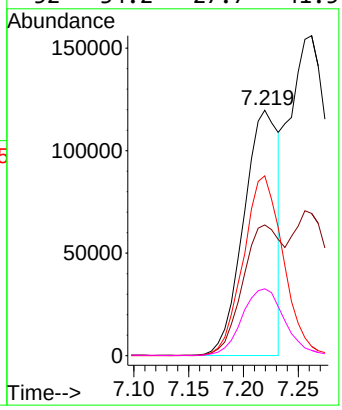


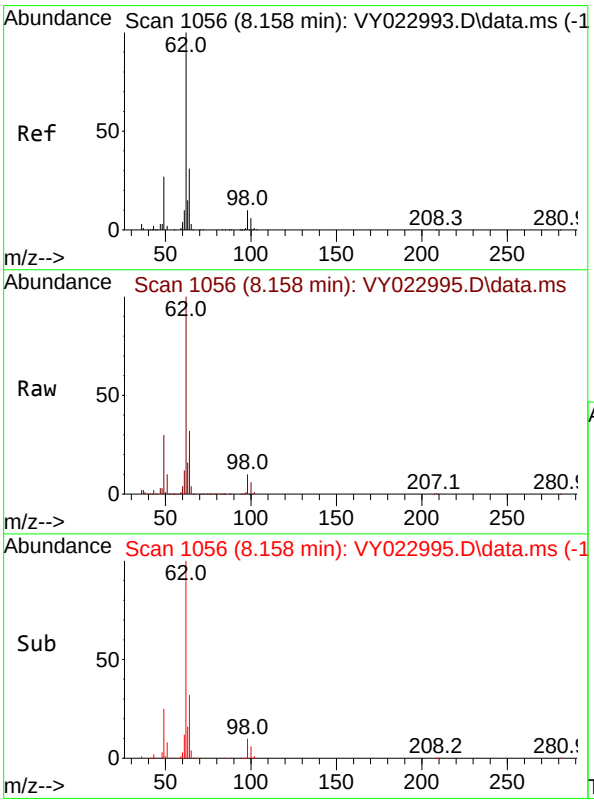
#41
Methacrylonitrile
Concen: 163.855 ug/l
RT: 7.219 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 262546

Ion	Ratio	Lower	Upper
41	100		
39	61.6	50.0	75.0
67	85.1	65.4	98.2
52	34.2	27.7	41.5

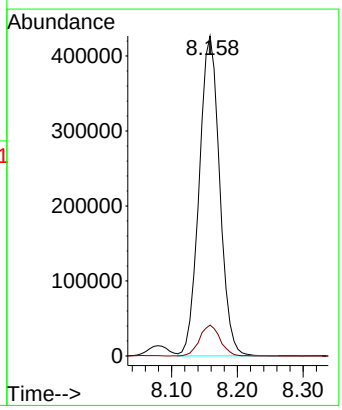


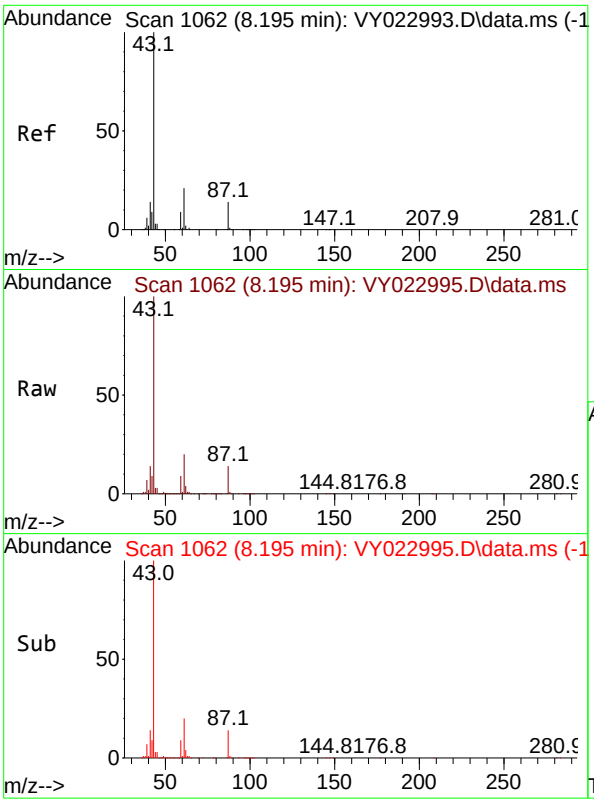


#42
1,2-Dichloroethane
Concen: 150.515 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 62 Resp: 921582

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.0



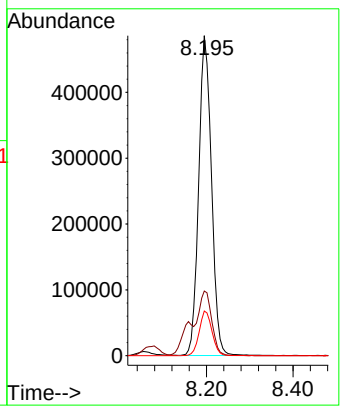


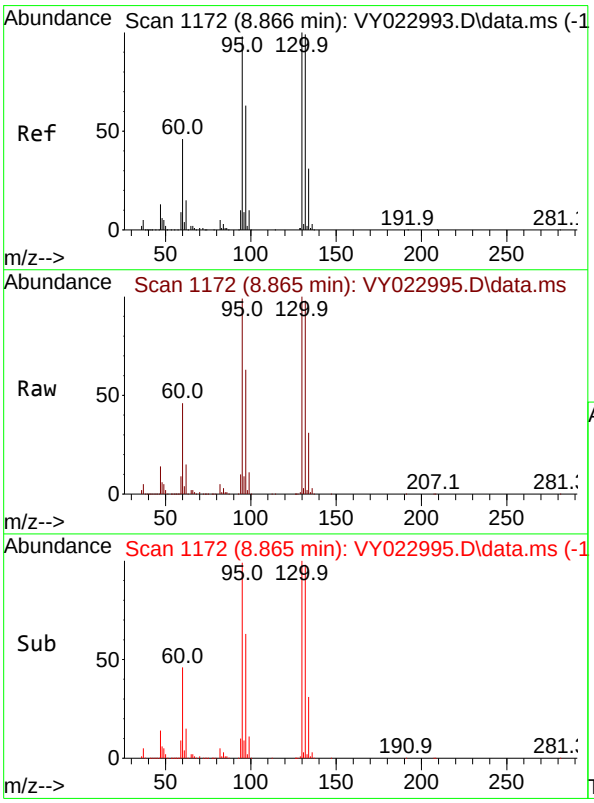
#43
Isopropyl Acetate
Concen: 165.022 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 995083

Ion	Ratio	Lower	Upper
43	100		
61	21.0	25.0	37.4#
87	14.0	11.1	16.7

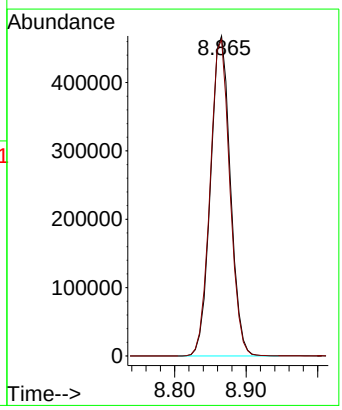


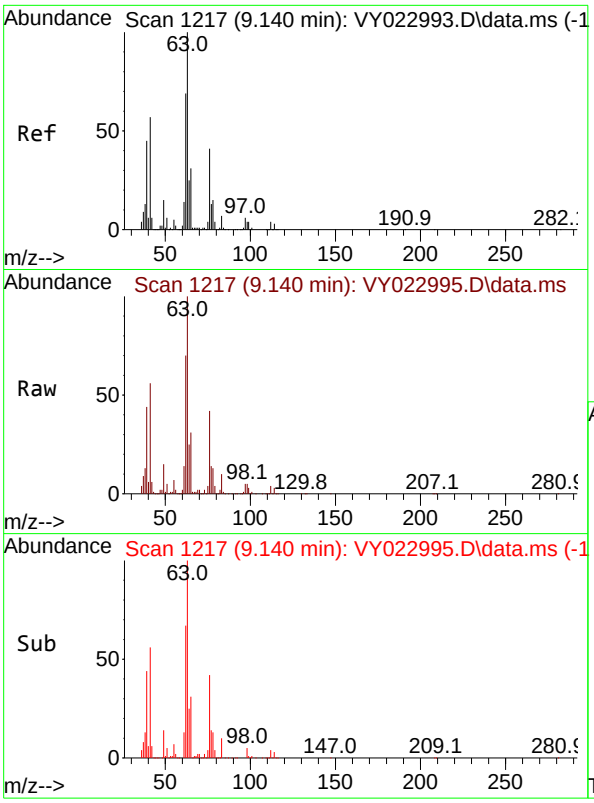


#44
Trichloroethene
Concen: 142.310 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:130 Resp: 899565

Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	195.8



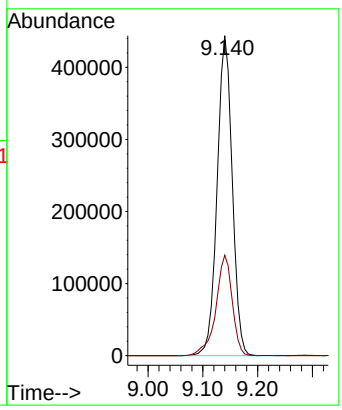


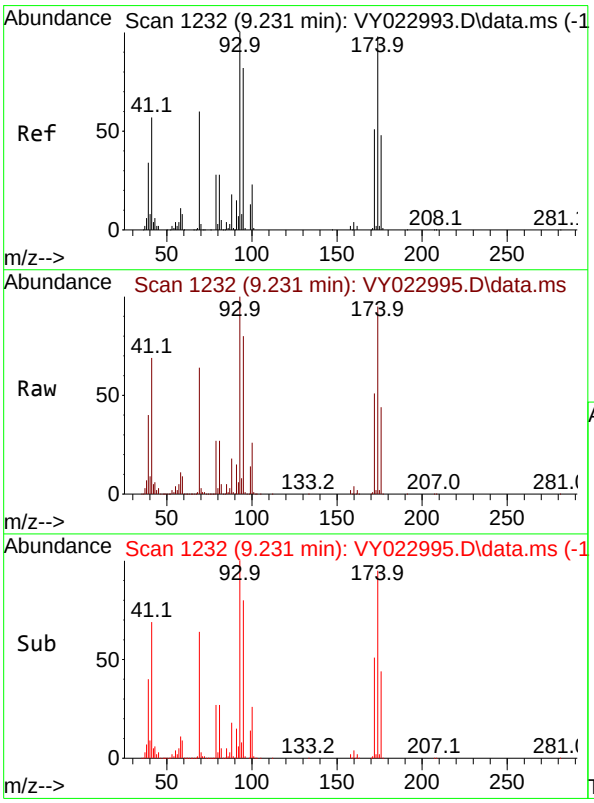
#45
1,2-Dichloropropane
Concen: 147.880 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 849889

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.6	37.0

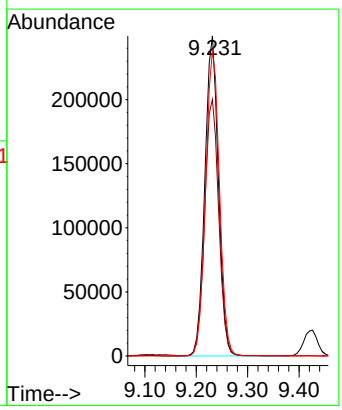


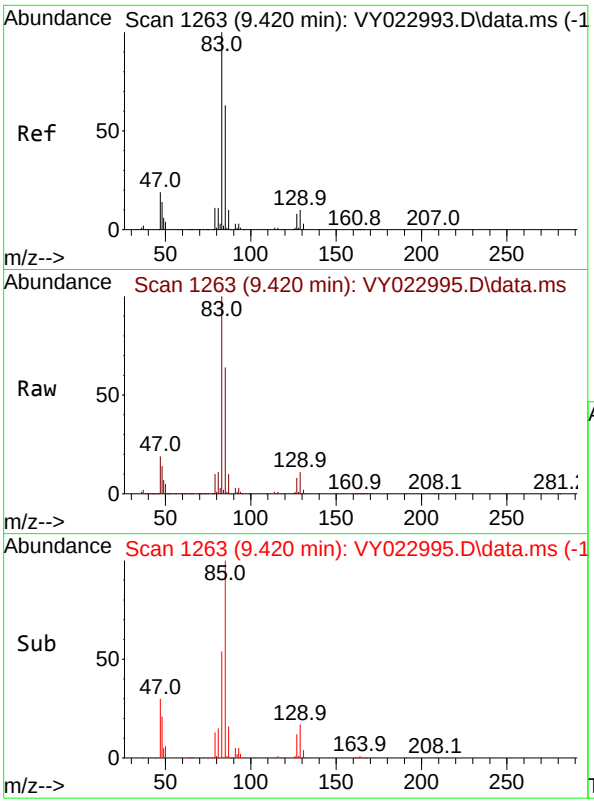


#46
Dibromomethane
Concen: 153.894 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 93 Resp: 457164

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.9	98.9
174	97.5	76.4	114.6



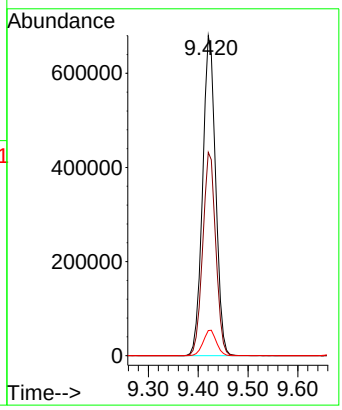


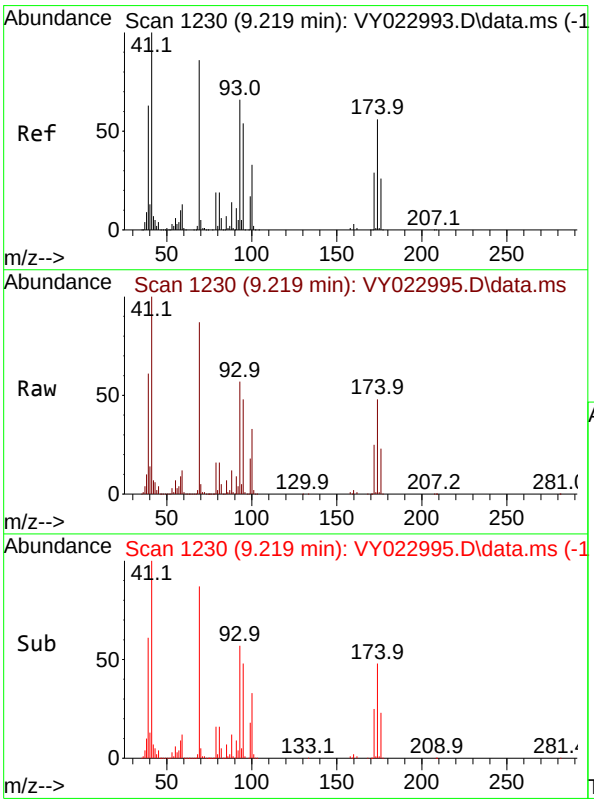
#47
Bromodichloromethane
Concen: 149.779 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 1229904

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	7.8	6.5	9.7

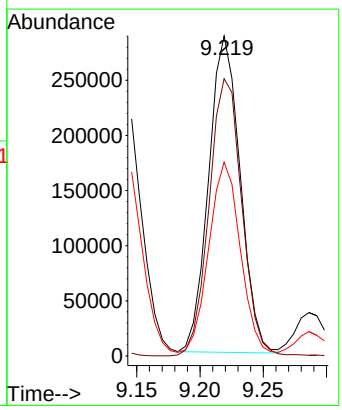


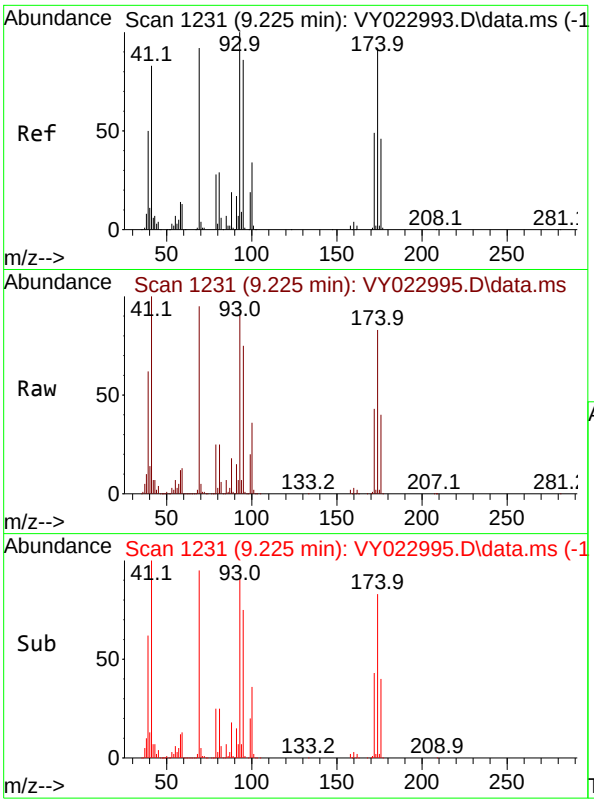


#48
Methyl methacrylate
Concen: 170.750 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 41 Resp: 497091

Ion	Ratio	Lower	Upper
41	100		
69	91.2	71.4	107.0
39	59.9	47.8	71.8



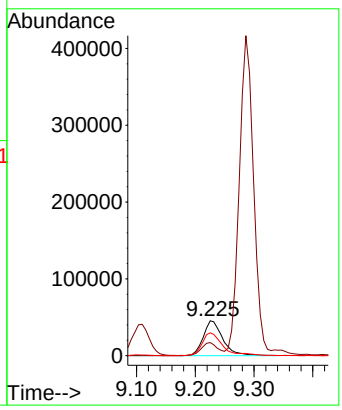


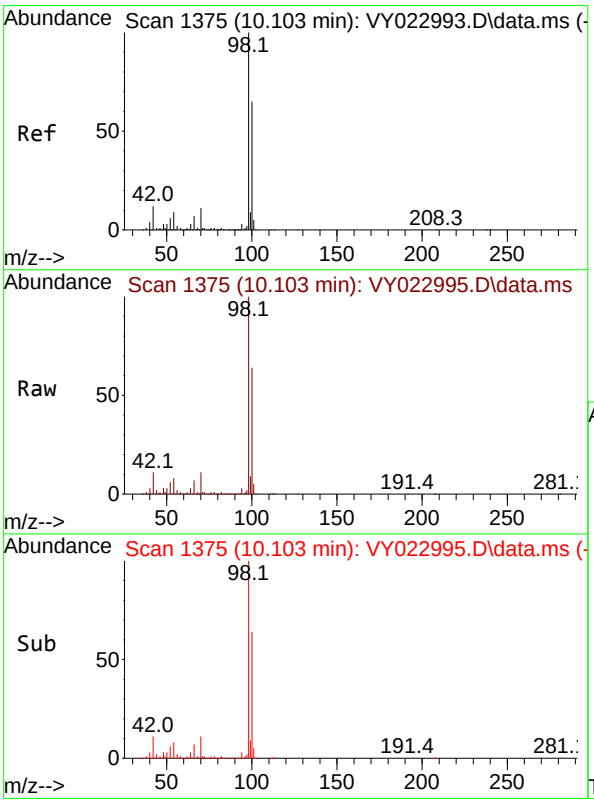
#49
1,4-Dioxane
Concen: 3372.404 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 105601

Ion	Ratio	Lower	Upper
88	100		
43	31.8	28.7	43.1
58	69.2	59.8	89.6

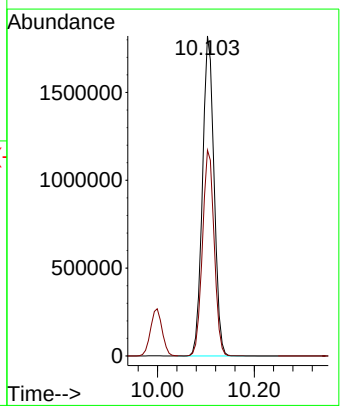


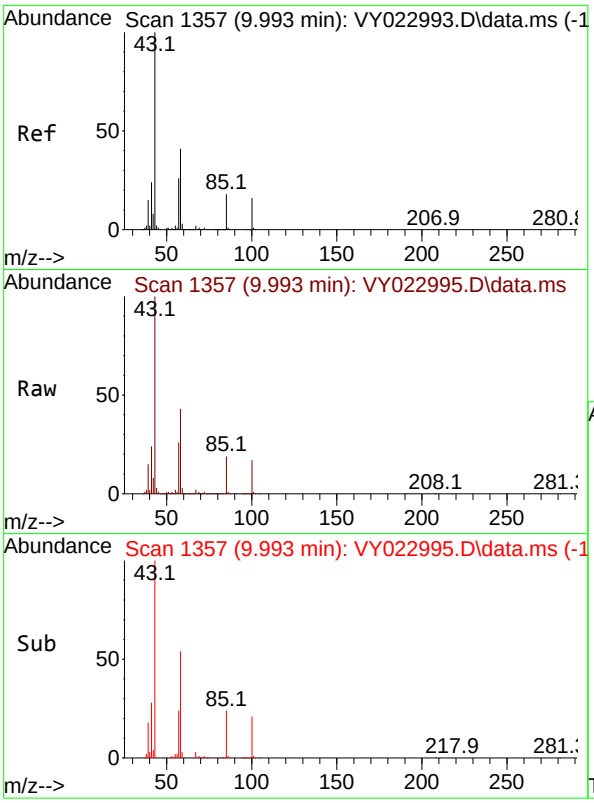


#50
Toluene-d8
Concen: 147.281 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 98 Resp: 3030762

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.2	78.2



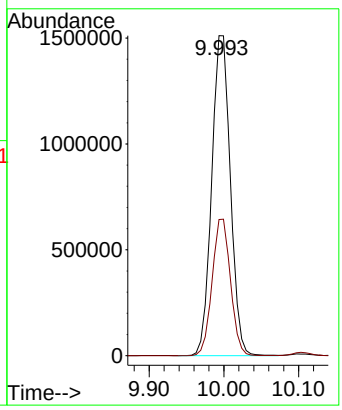


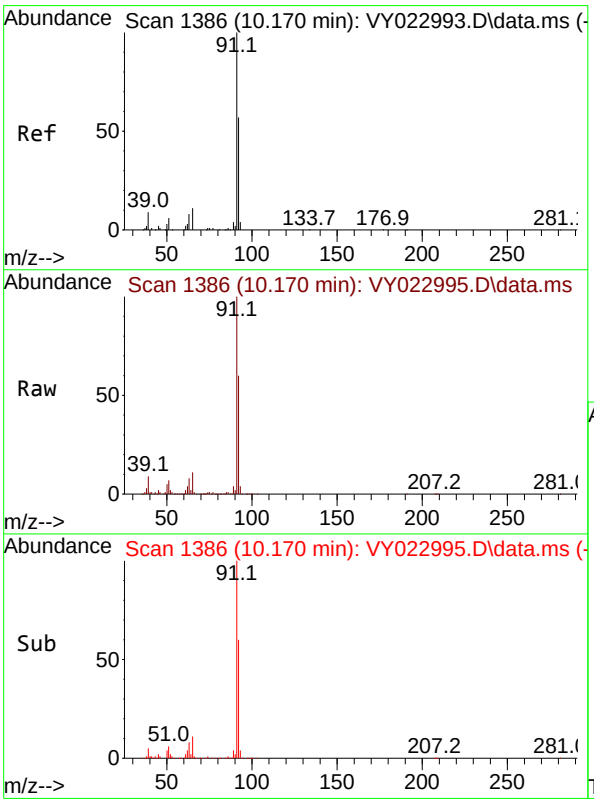
#51
4-Methyl-2-Pentanone
Concen: 856.011 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2619935

Ion	Ratio	Lower	Upper
43	100		
58	42.0	32.5	48.7

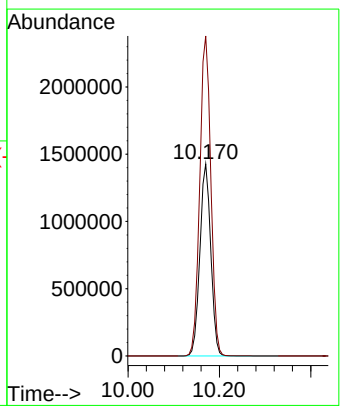


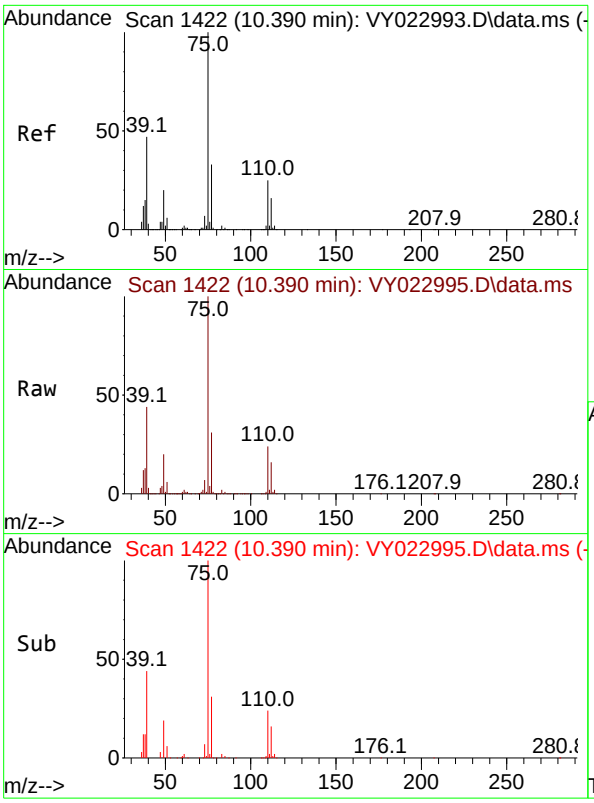


#52
Toluene
Concen: 153.936 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 92 Resp: 2355369

Ion	Ratio	Lower	Upper
92	100		
91	169.8	137.8	206.6



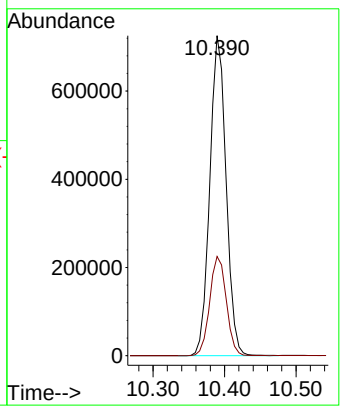


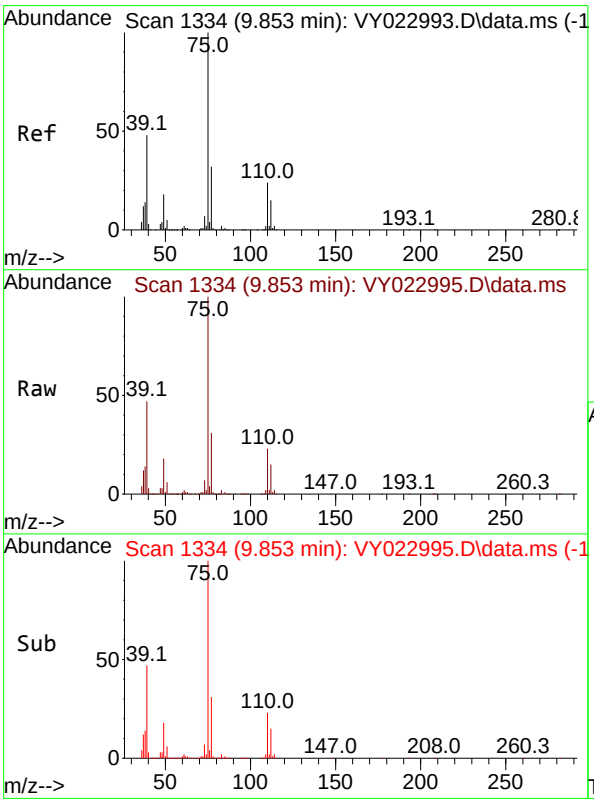
#53
t-1,3-Dichloropropene
Concen: 162.478 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 1145266

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.4	39.6

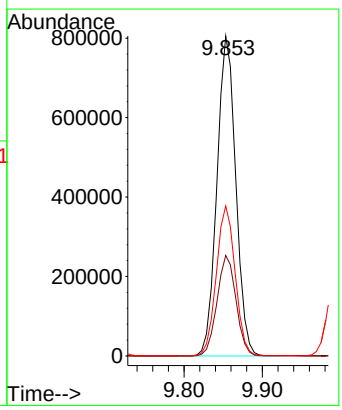


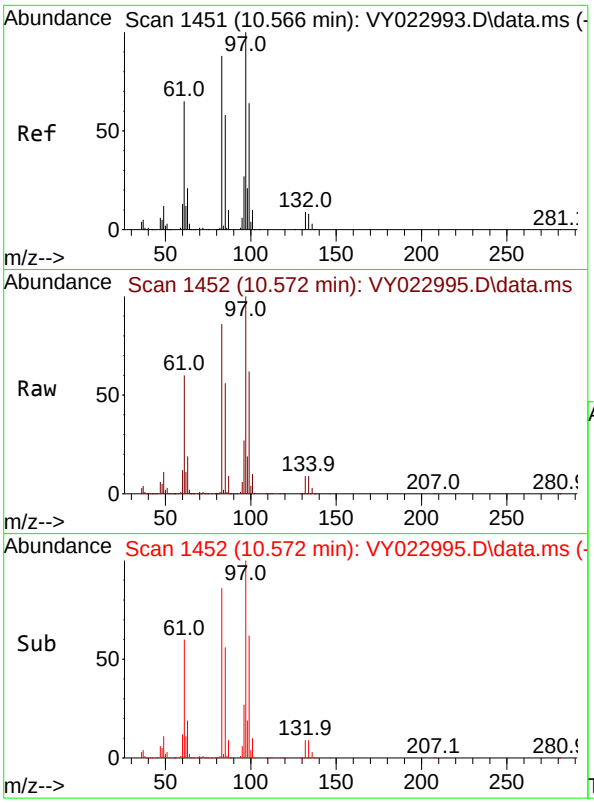


#54
cis-1,3-Dichloropropene
Concen: 158.600 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 1347461

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	46.9	38.2	57.2



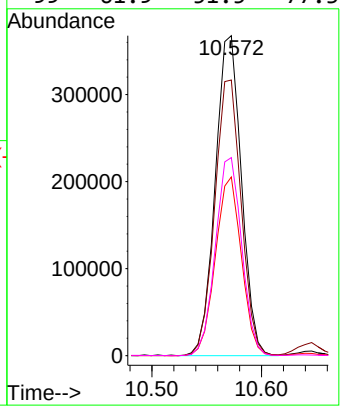


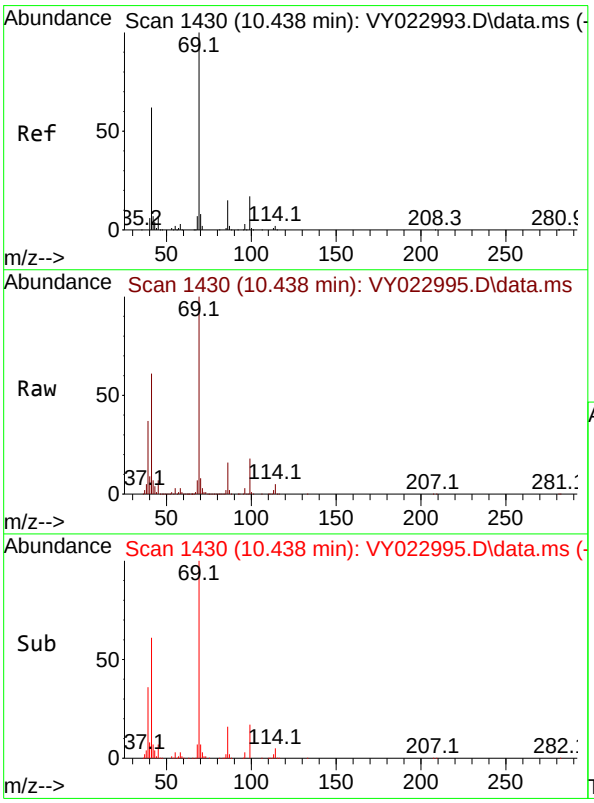
#55
1,1,2-Trichloroethane
Concen: 156.212 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 609925

Ion	Ratio	Lower	Upper
97	100		
83	86.1	70.2	105.2
85	55.8	46.2	69.2
99	61.9	51.5	77.3

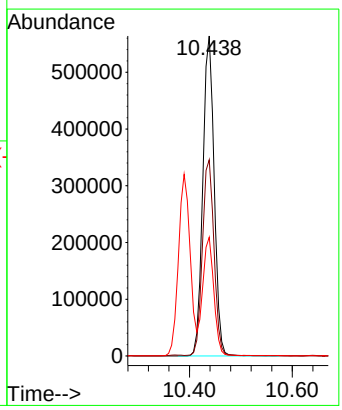


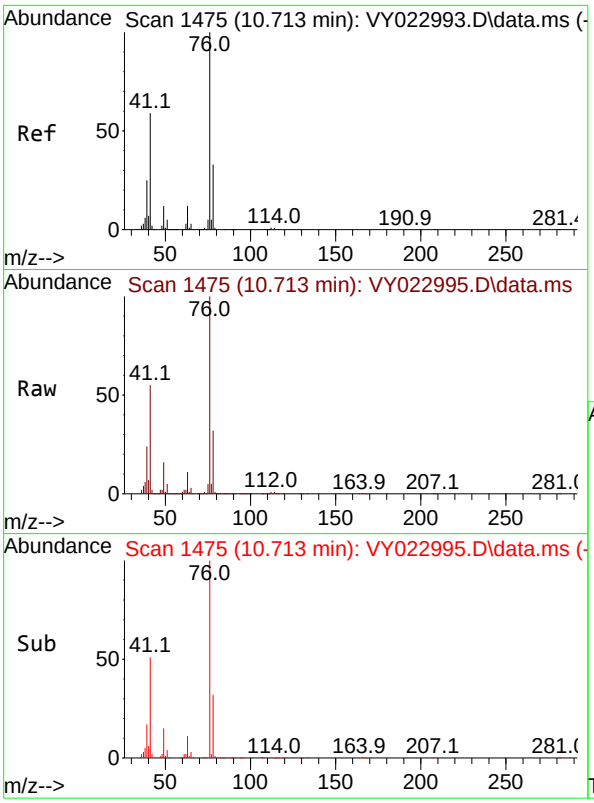


#56
Ethyl methacrylate
Concen: 176.974 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 69 Resp: 862573

Ion	Ratio	Lower	Upper
69	100		
41	62.4	51.0	76.4
39	36.3	30.6	46.0



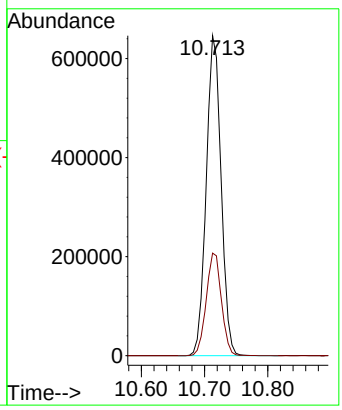


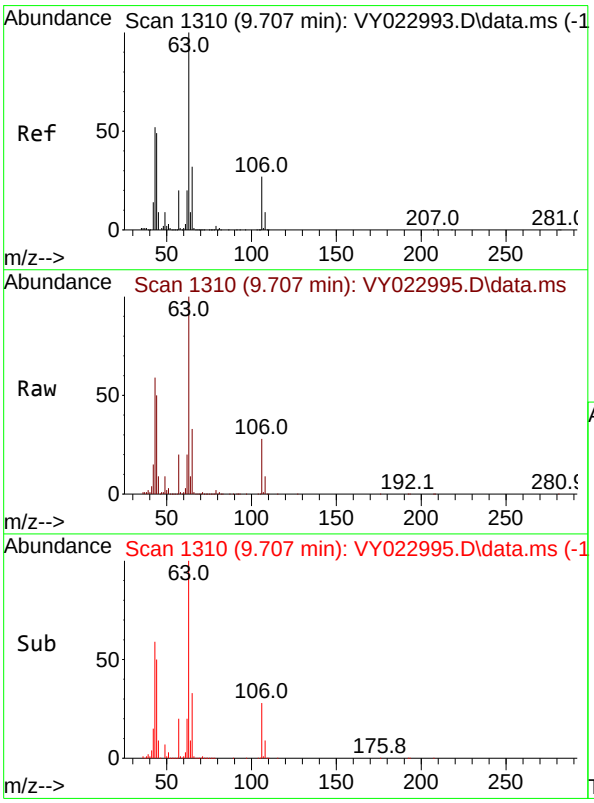
#57
1,3-Dichloropropane
Concen: 156.398 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1054881

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.6	39.8

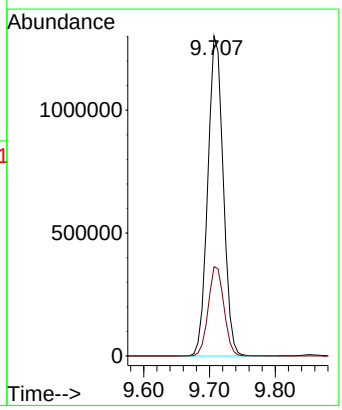


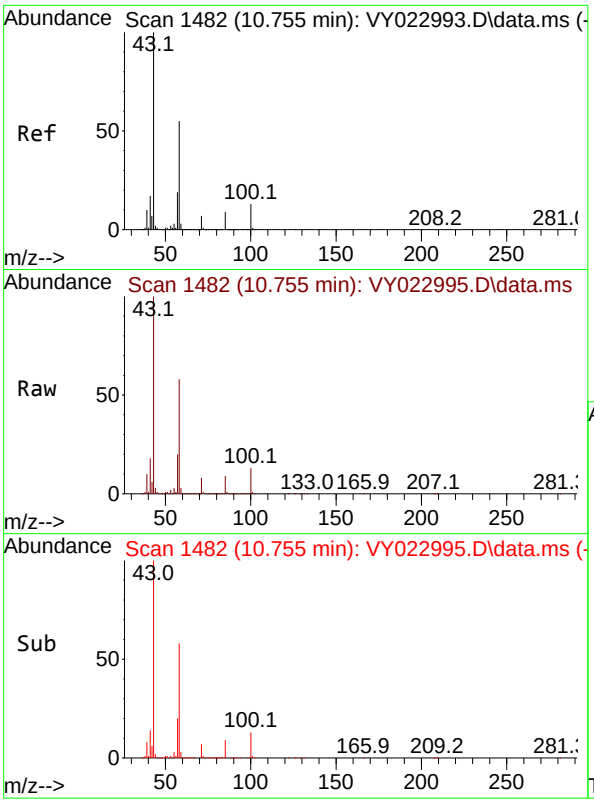


#58
2-Chloroethyl Vinyl ether
Concen: 889.686 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 63 Resp: 2122696

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.6	33.8



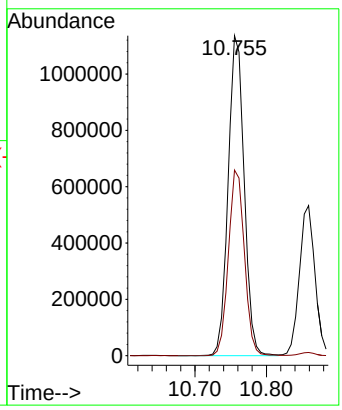


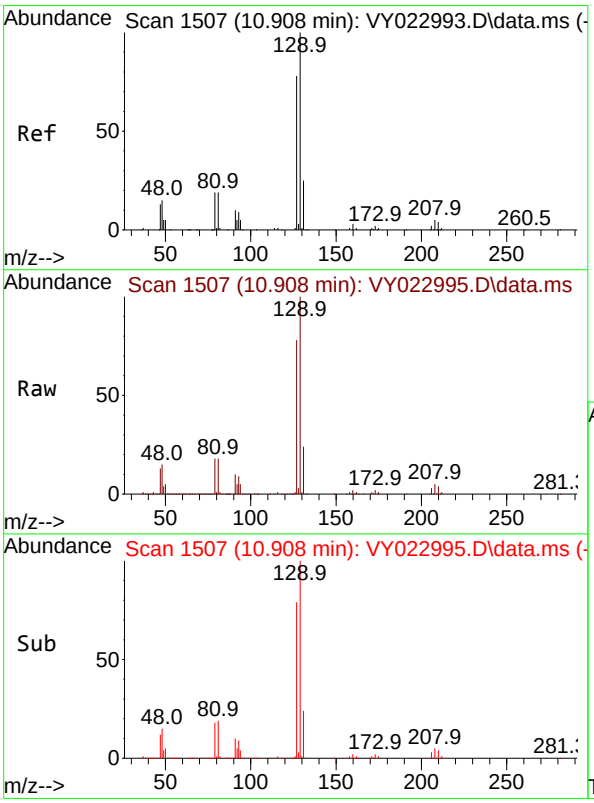
#59
2-Hexanone
Concen: 876.571 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1763492

Ion	Ratio	Lower	Upper
43	100		
58	58.1	28.1	84.3

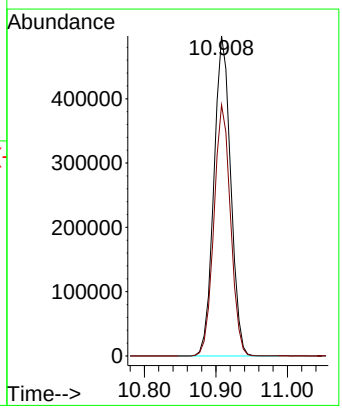


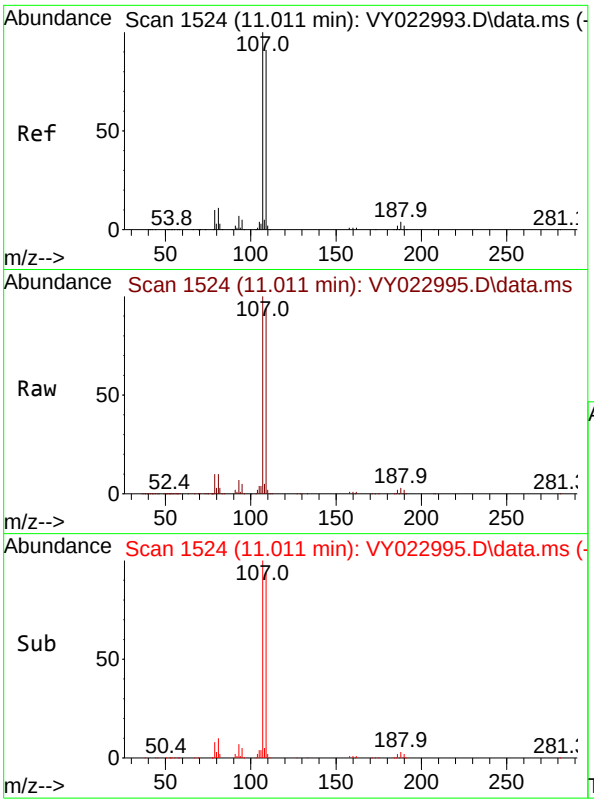


#60
Dibromochloromethane
Concen: 158.968 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:129 Resp: 812760

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.7	116.1



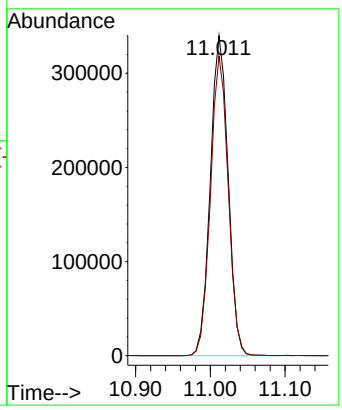


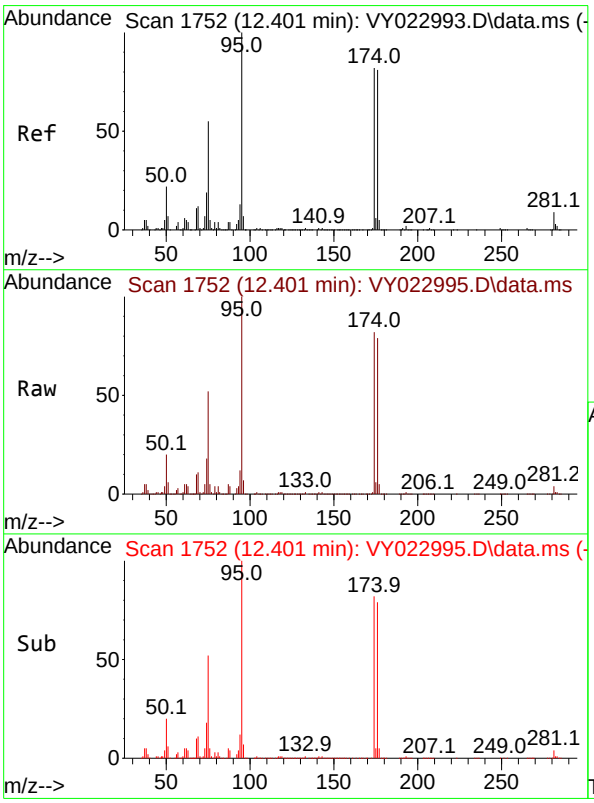
#61
1,2-Dibromoethane
Concen: 158.800 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 563050

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.1	112.7

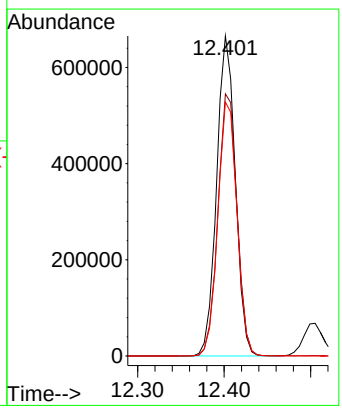


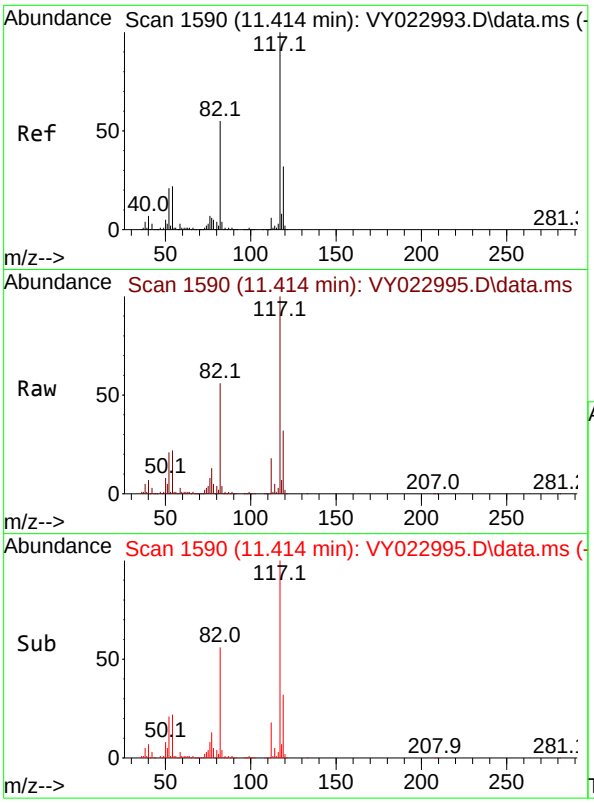


#62
4-Bromofluorobenzene
Concen: 153.805 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 95 Resp: 996296

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	170.8
176	81.2	0.0	163.6



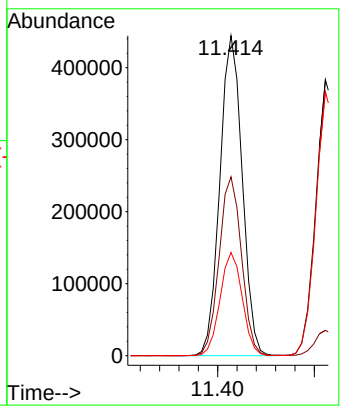


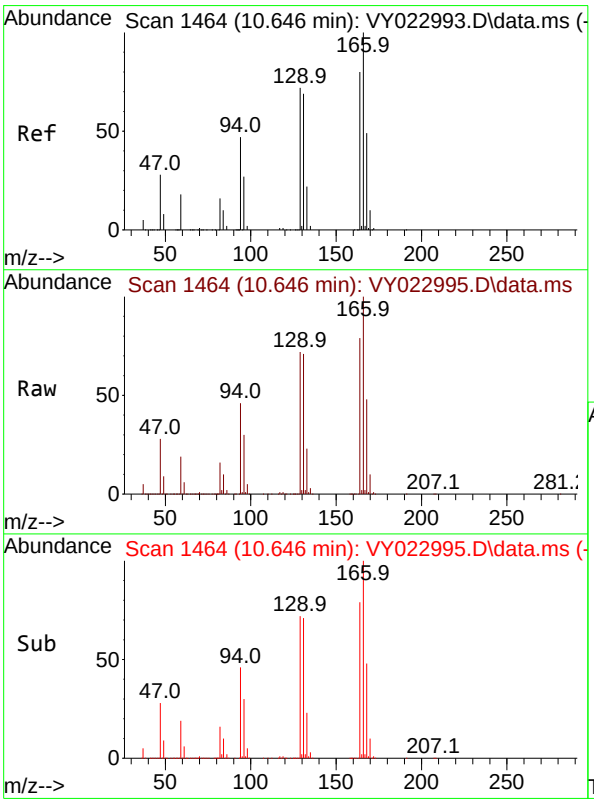
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 713048

Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.3	66.5
119	32.2	25.8	38.8

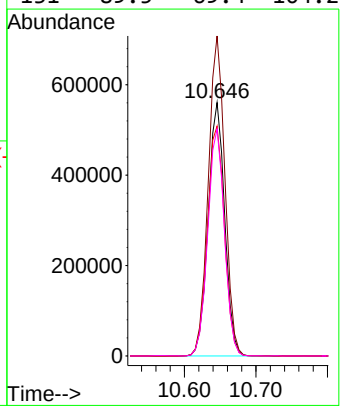


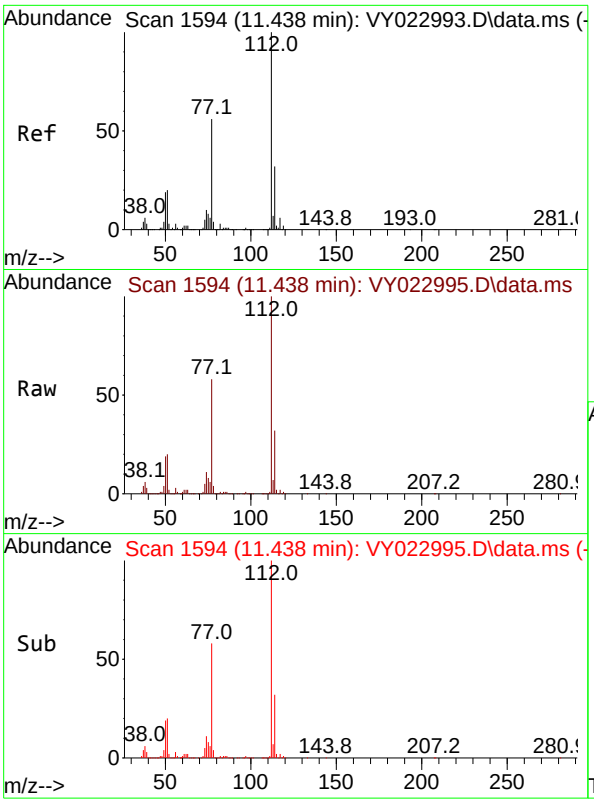


#64
Tetrachloroethene
Concen: 123.614 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:164 Resp: 900940

Ion	Ratio	Lower	Upper
164	100		
166	126.3	100.2	150.2
129	90.7	71.7	107.5
131	89.5	69.4	104.2



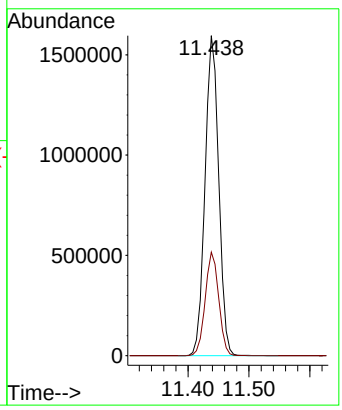


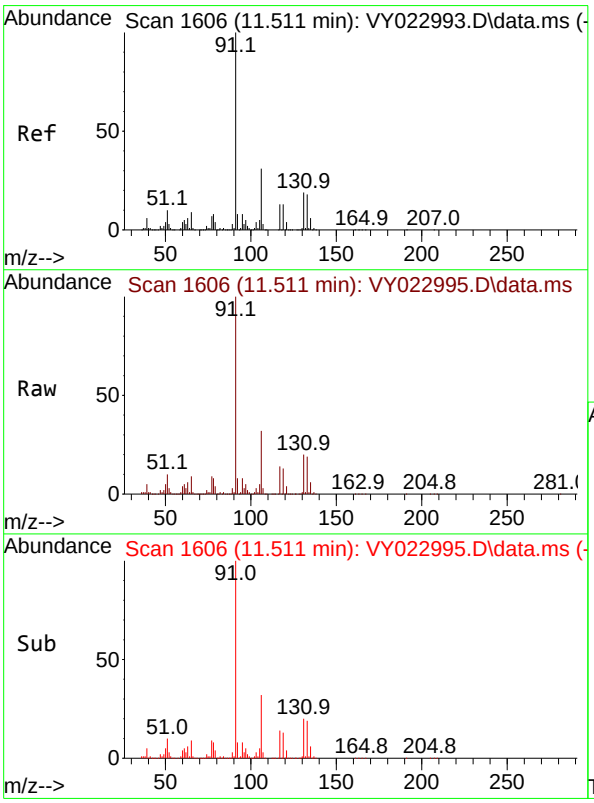
#65
Chlorobenzene
Concen: 147.805 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 2486956

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.2

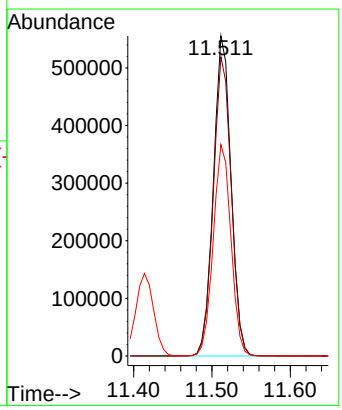


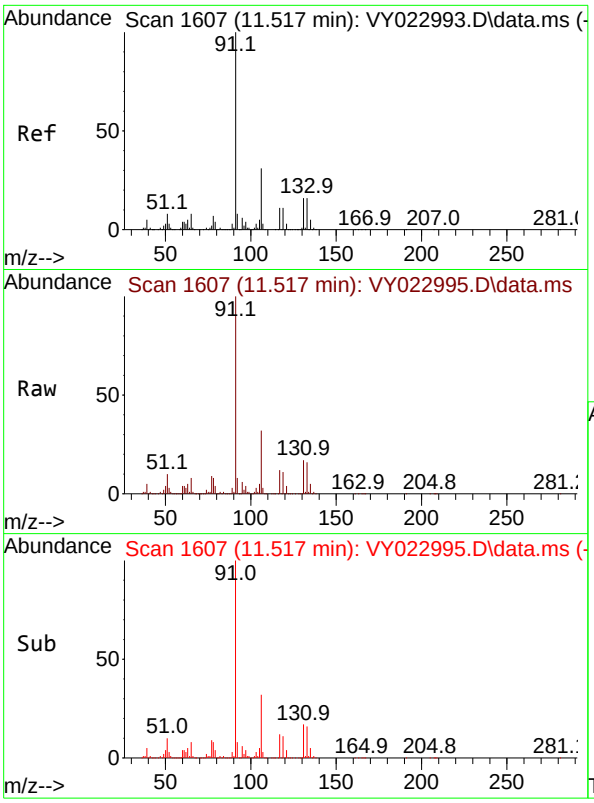


#66
1,1,1,2-Tetrachloroethane
Concen: 151.433 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:131 Resp: 869061

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.8	143.3
119	66.6	33.3	99.8



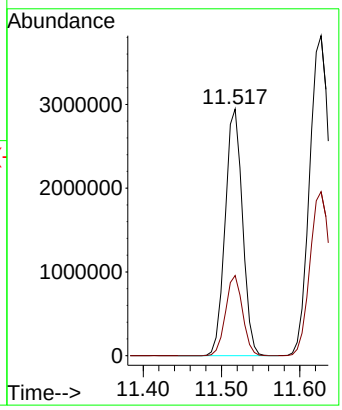


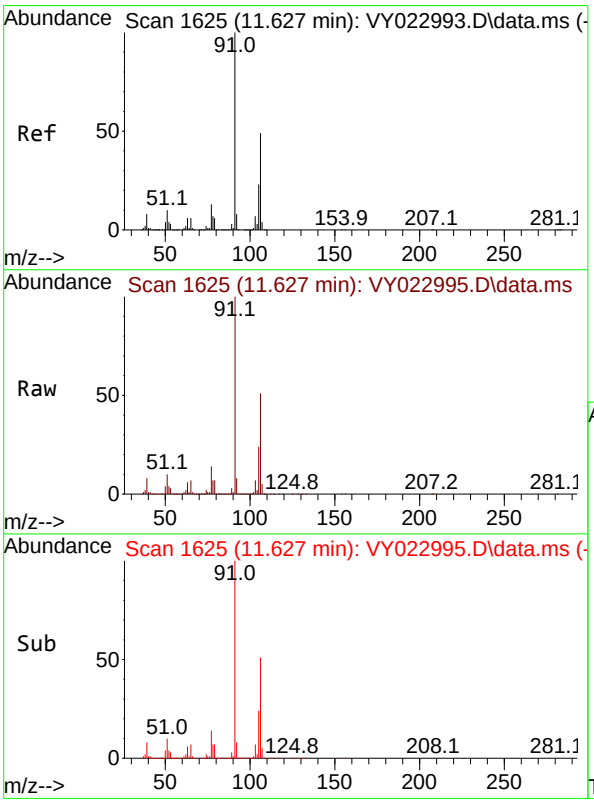
#67
Ethyl Benzene
Concen: 151.974 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 4532458

Ion	Ratio	Lower	Upper
91	100		
106	32.5	24.6	37.0

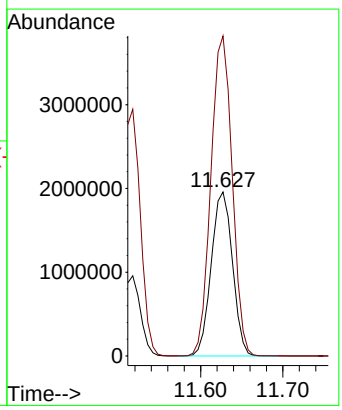


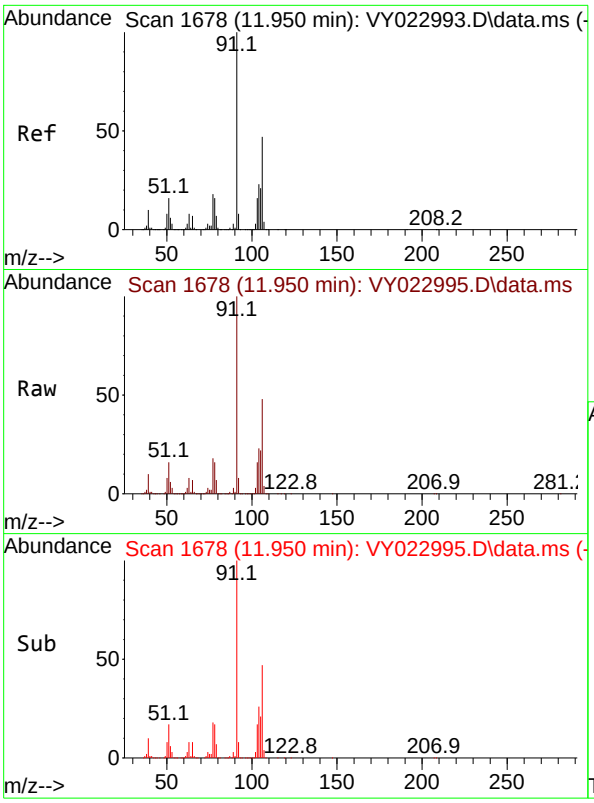


#68
m/p-Xylenes
Concen: 306.732 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:106 Resp: 3508814

Ion	Ratio	Lower	Upper
106	100		
91	195.8	159.8	239.8



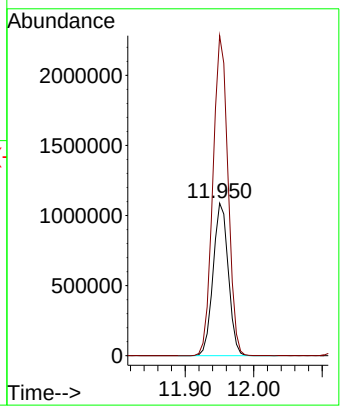


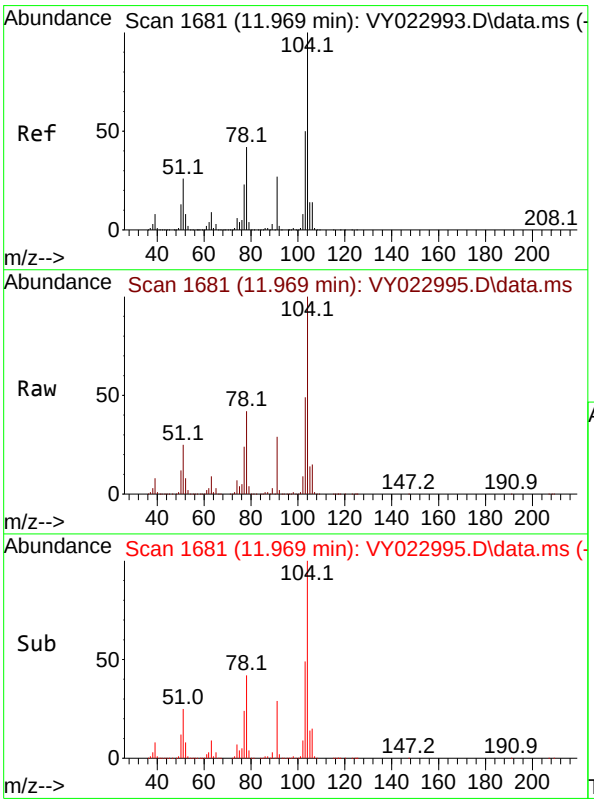
#69
o-Xylene
Concen: 157.335 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 1670304

Ion	Ratio	Lower	Upper
106	100		
91	208.9	106.3	318.8

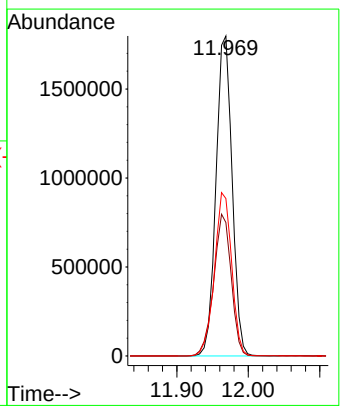


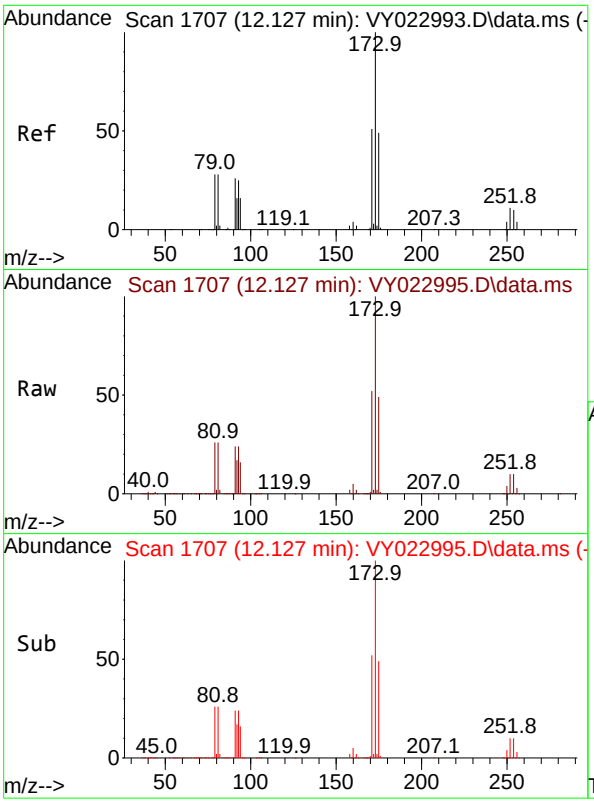


#70
Styrene
Concen: 161.930 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:104 Resp: 2815907

Ion	Ratio	Lower	Upper
104	100		
78	48.0	39.0	58.6
103	54.6	43.7	65.5



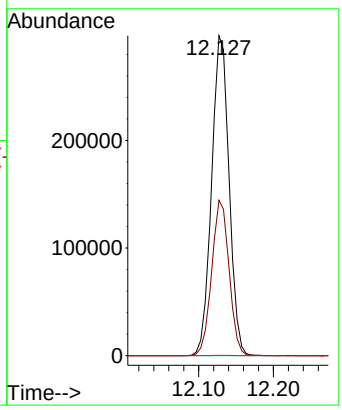


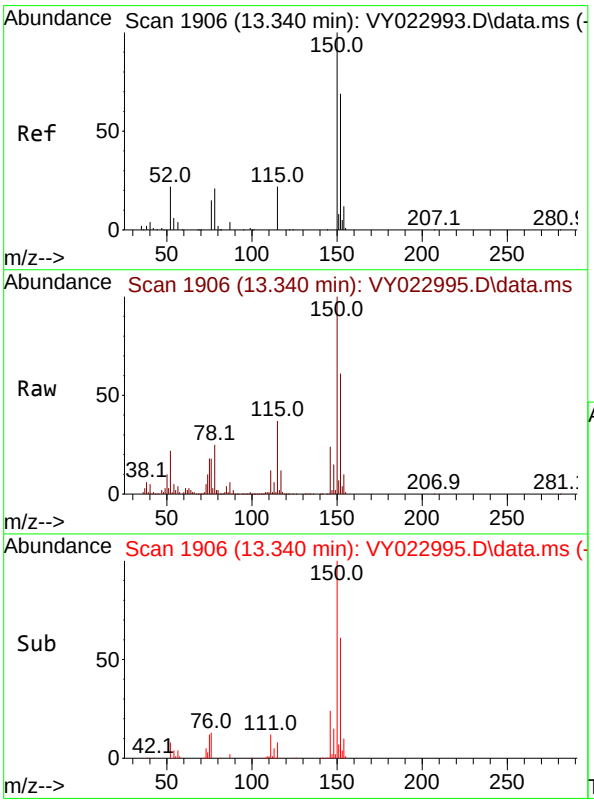
#71
Bromoform
Concen: 165.606 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 482482

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.1	0.2	0.2#

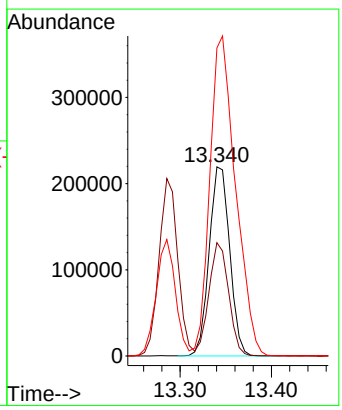


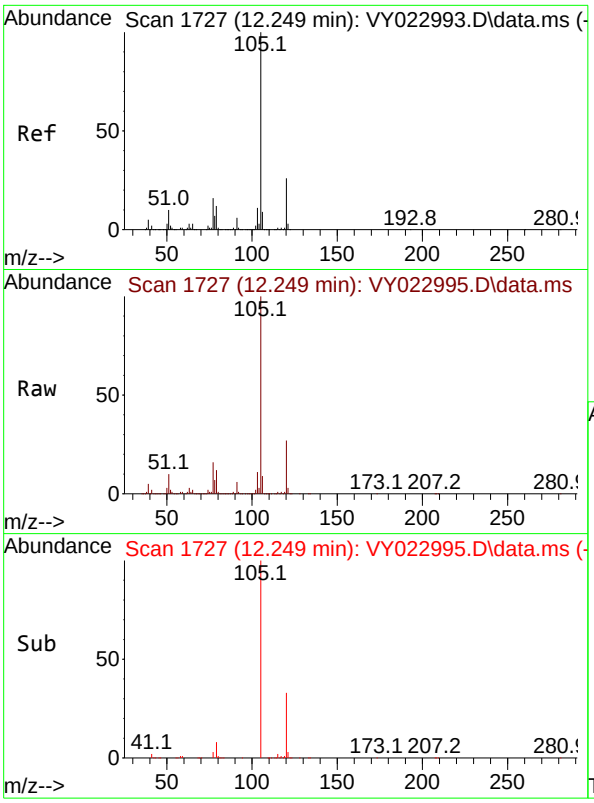


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:152 Resp: 341818

Ion	Ratio	Lower	Upper
152	100		
115	57.5	29.4	88.2
150	212.4	0.0	350.0



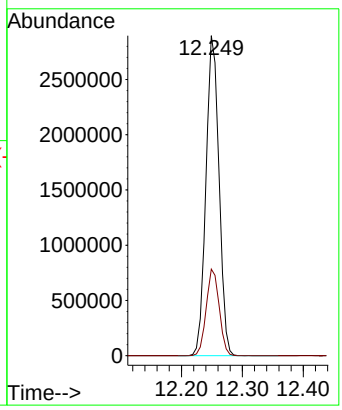


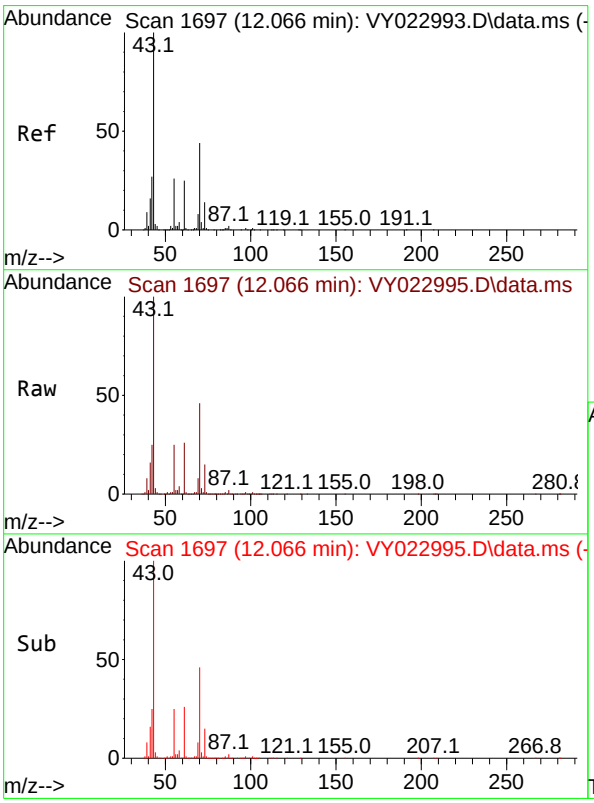
#73
Isopropylbenzene
Concen: 148.835 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 4313254

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.2	39.6

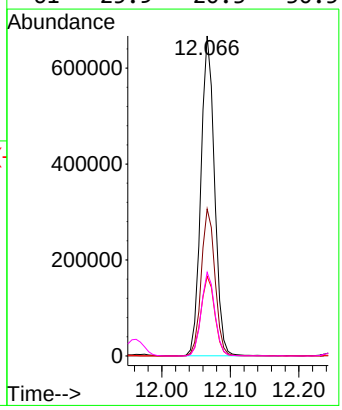


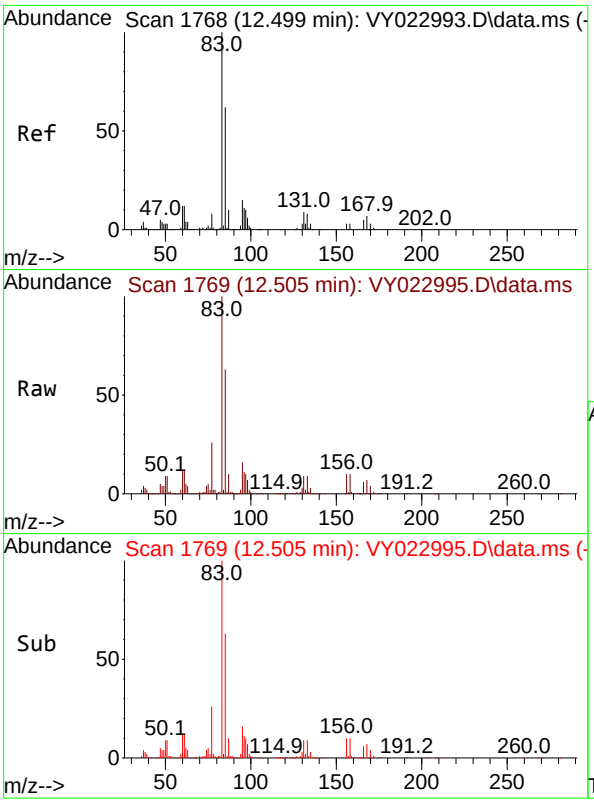


#74
N-amyl acetate
Concen: 169.687 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 43 Resp: 927122

Ion	Ratio	Lower	Upper
43	100		
70	46.1	36.2	54.2
55	25.2	20.9	31.3
61	25.9	20.3	30.5



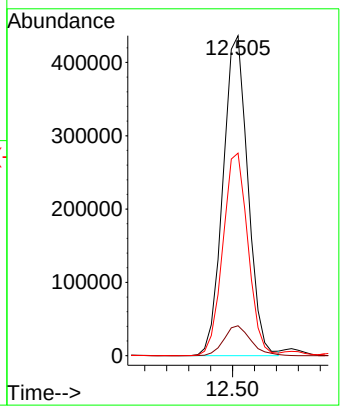


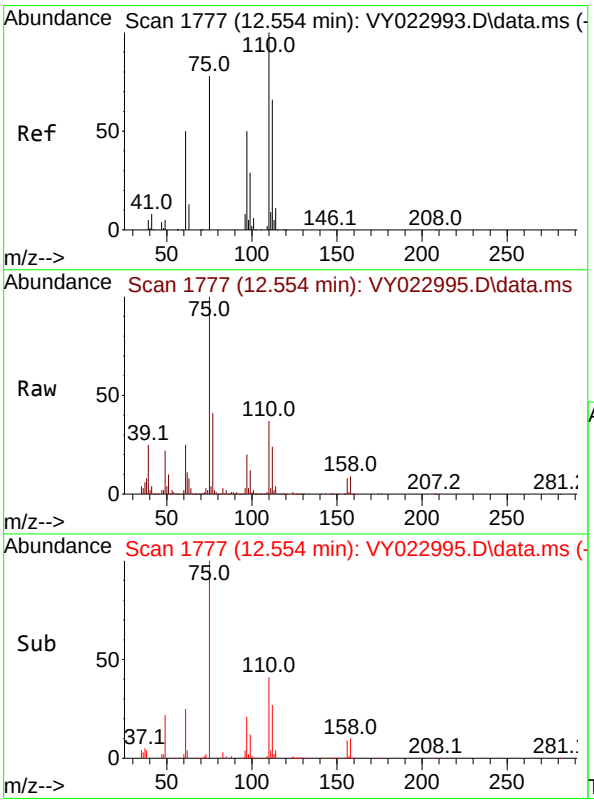
#75
1,1,2,2-Tetrachloroethane
Concen: 163.959 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 687614

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.0	31.9	95.7

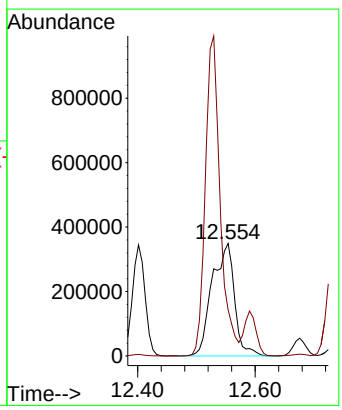


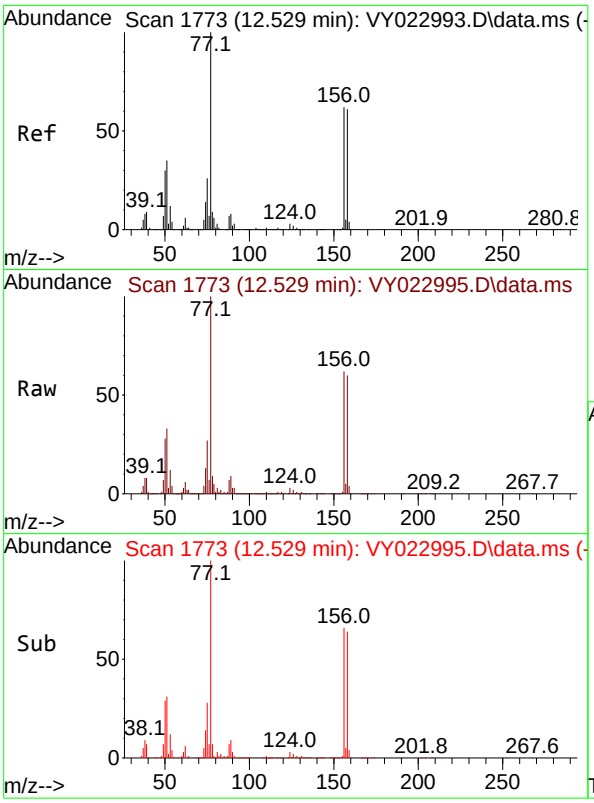


#76
1,2,3-Trichloropropane
Concen: 214.628 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 923324

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



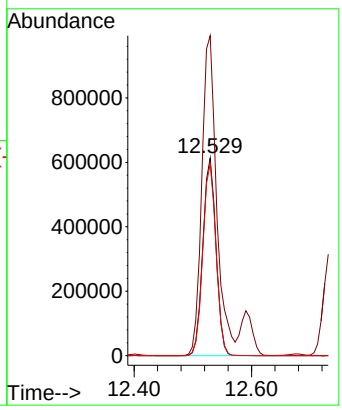


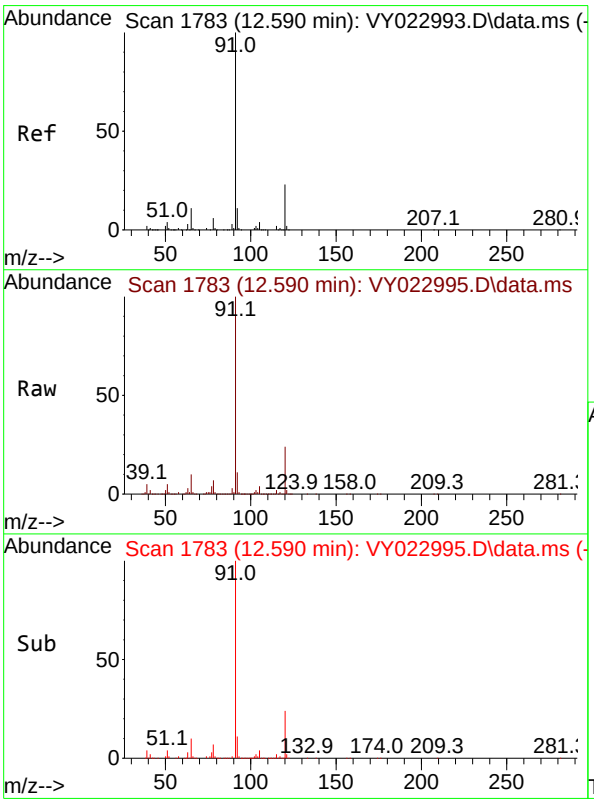
#77
Bromobenzene
Concen: 152.042 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 955644

Ion	Ratio	Lower	Upper
156	100		
77	182.7	92.0	276.1
158	97.3	48.6	145.9

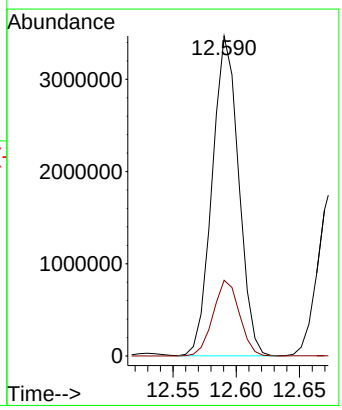


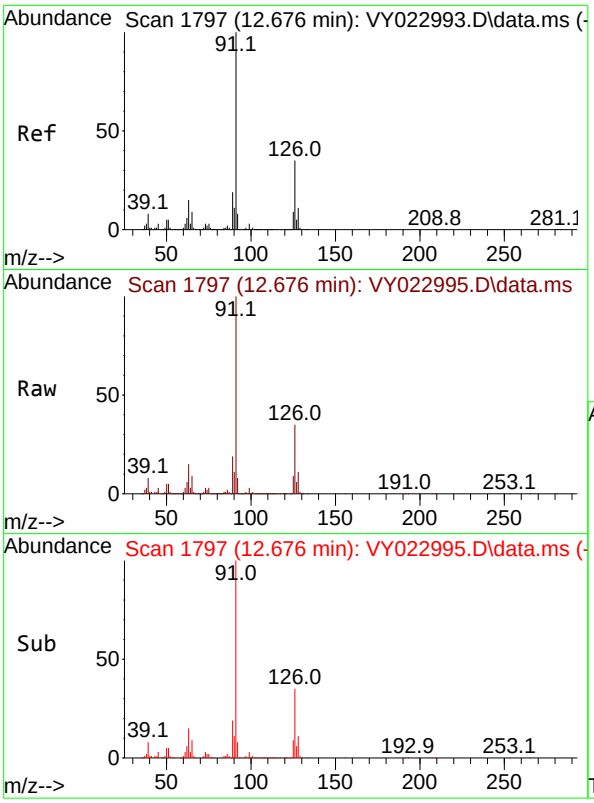


#78
n-propylbenzene
Concen: 146.282 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 91 Resp: 5048339

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.3	33.8



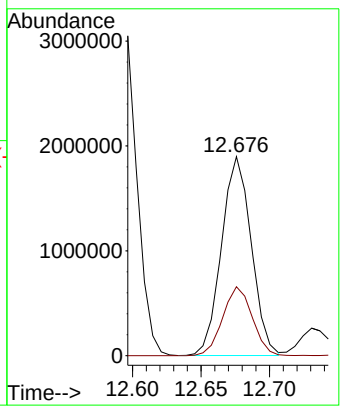


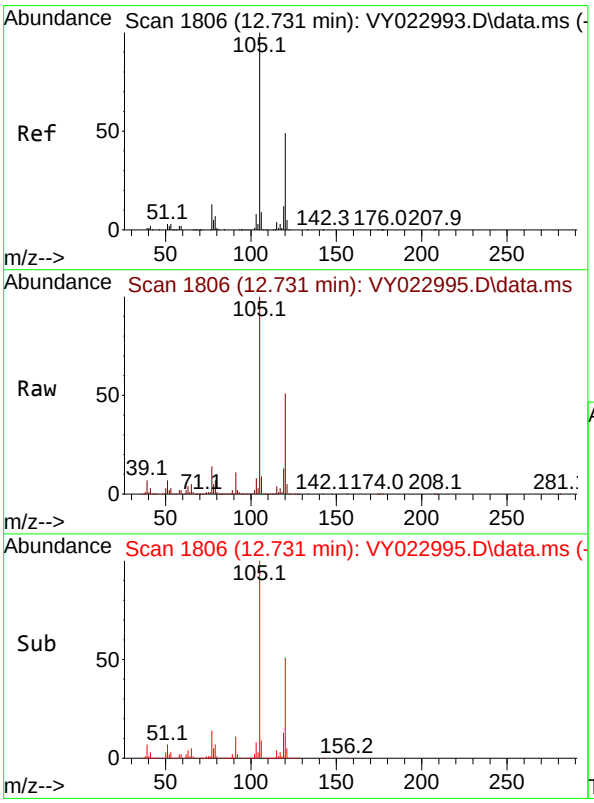
#79
2-Chlorotoluene
Concen: 147.762 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2867994

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	50.9

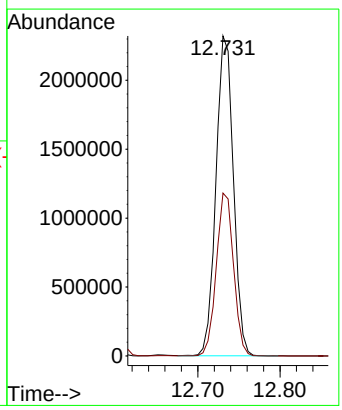


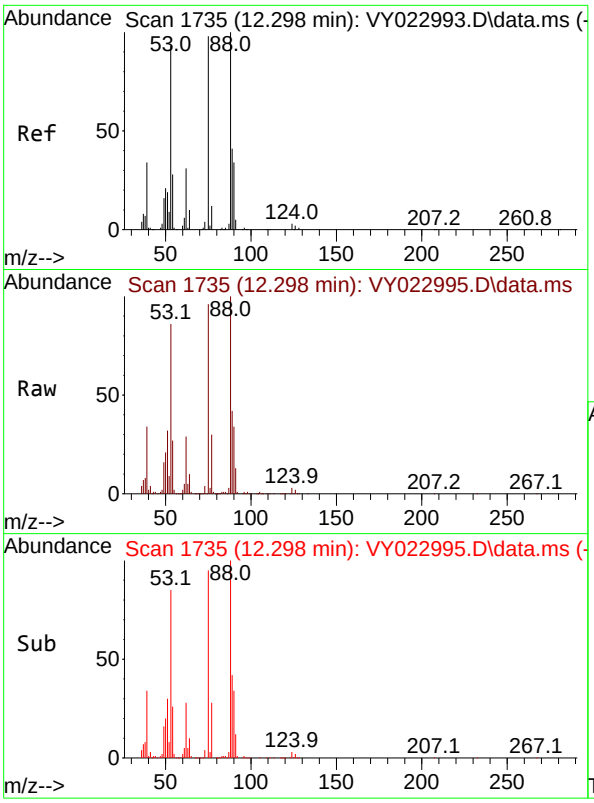


#80
1,3,5-Trimethylbenzene
Concen: 149.755 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:105 Resp: 3422881

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.6	73.8



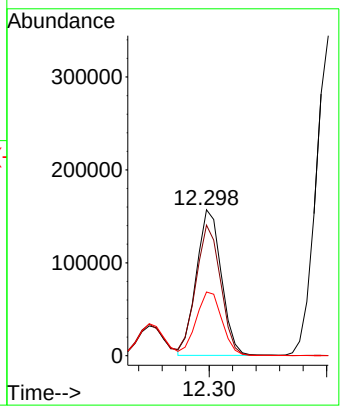


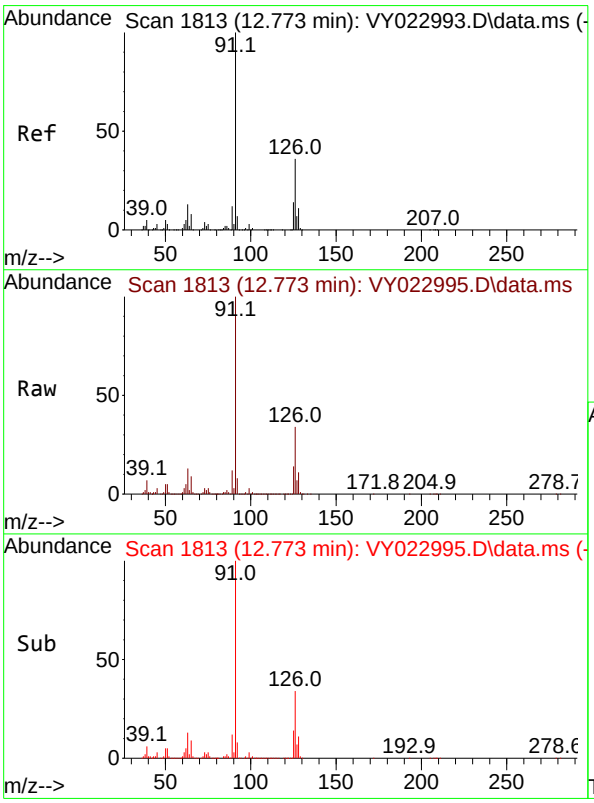
#81
trans-1,4-Dichloro-2-butene
Concen: 161.650 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 231166

Ion	Ratio	Lower	Upper
75	100		
53	89.1	76.1	114.1
89	45.5	36.1	54.1

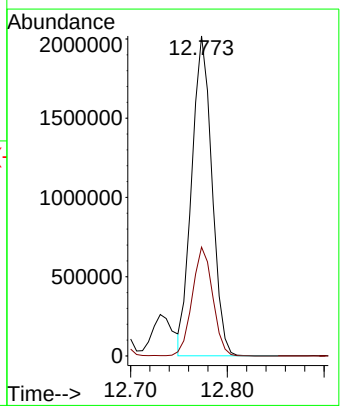


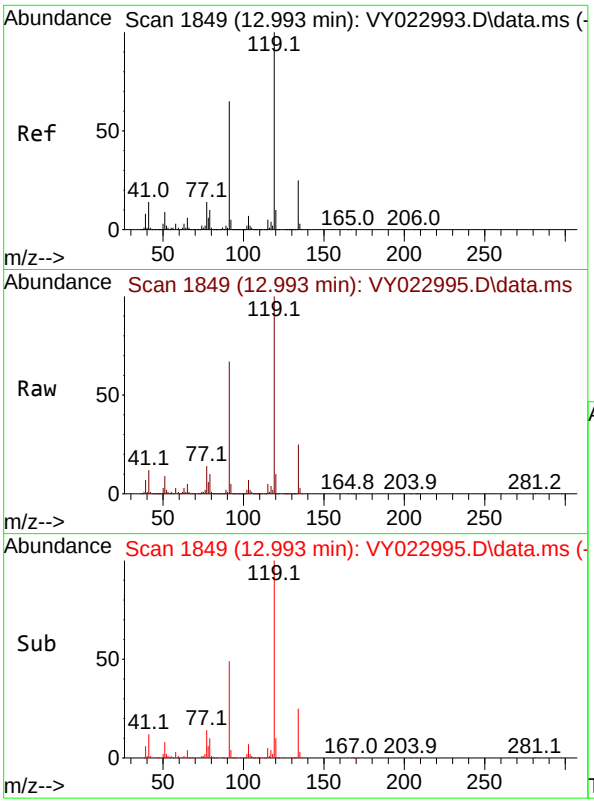


#82
4-Chlorotoluene
Concen: 149.351 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 91 Resp: 2923682

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.2	51.5



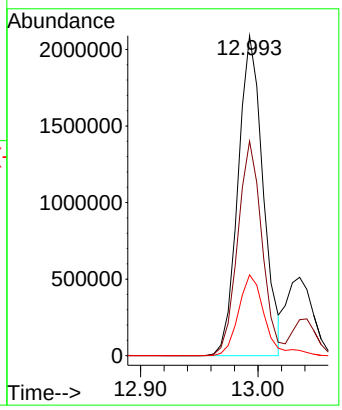


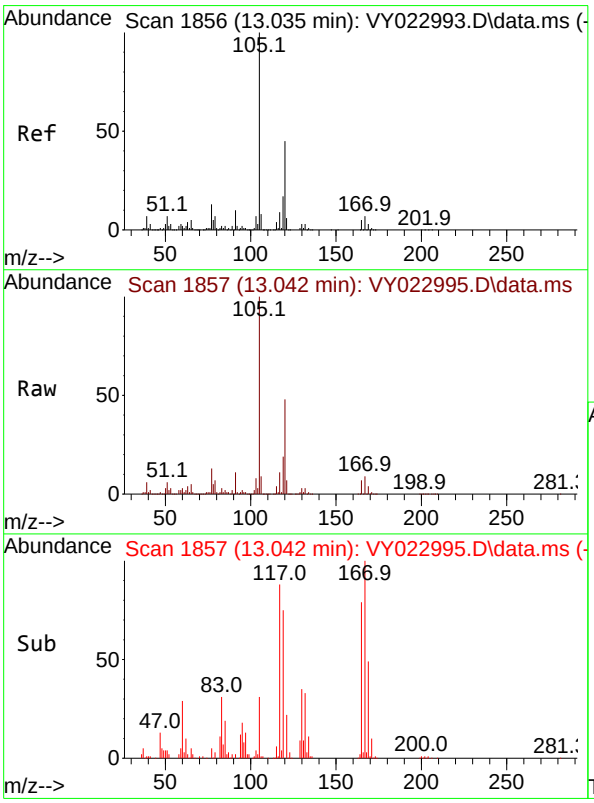
#83
tert-Butylbenzene
Concen: 149.676 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 3090226

Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.0	96.2
134	26.6	12.6	37.6

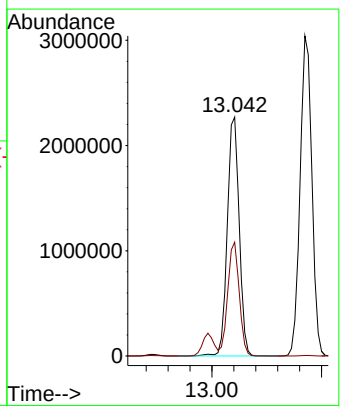


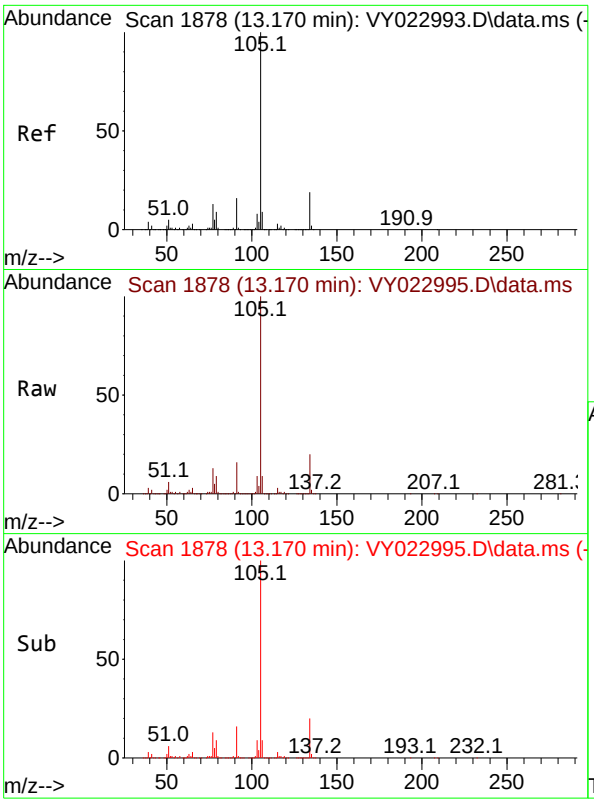


#84
1,2,4-Trimethylbenzene
Concen: 152.237 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:105 Resp: 3425217

Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8



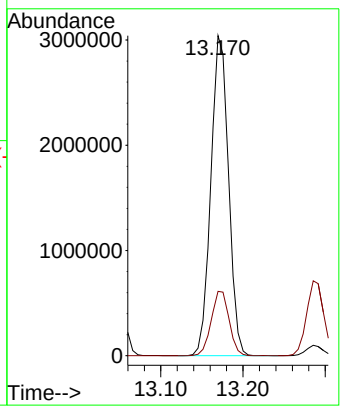


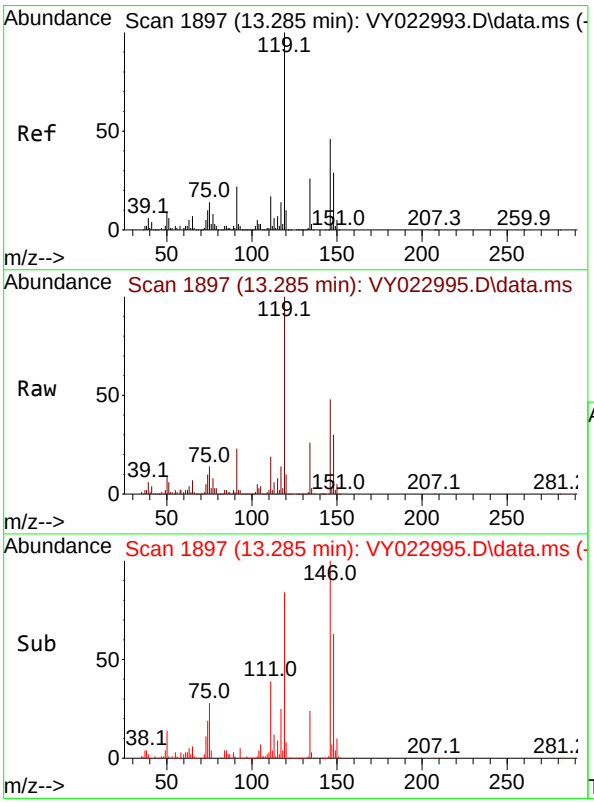
#85
sec-Butylbenzene
Concen: 146.212 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 4523782

Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.5

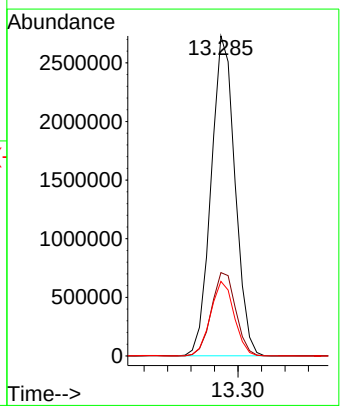


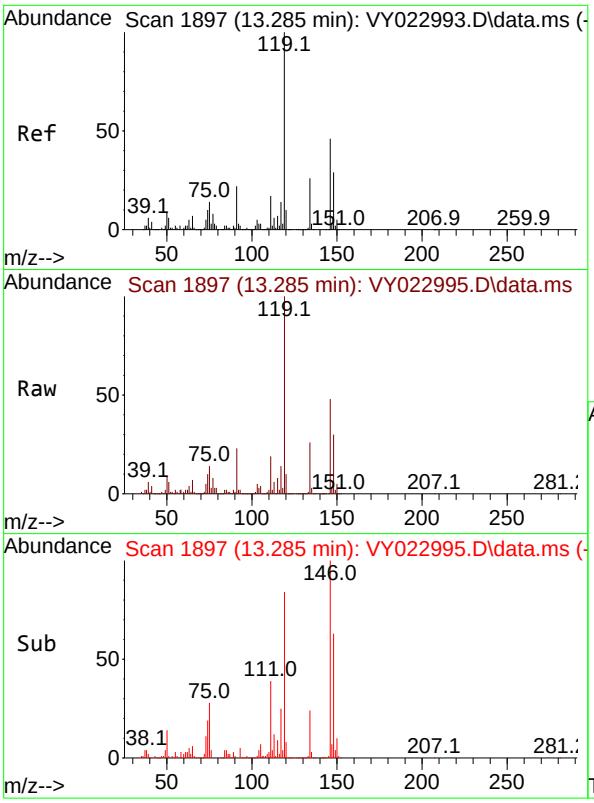


#86
p-Isopropyltoluene
Concen: 153.178 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:119 Resp: 3849059

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.1	39.1
91	23.1	11.4	34.1



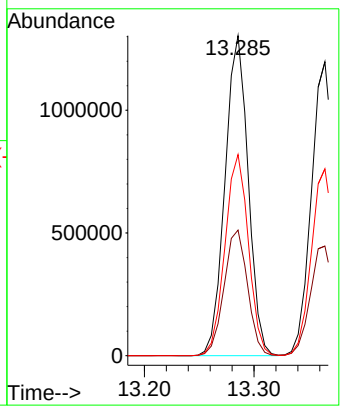


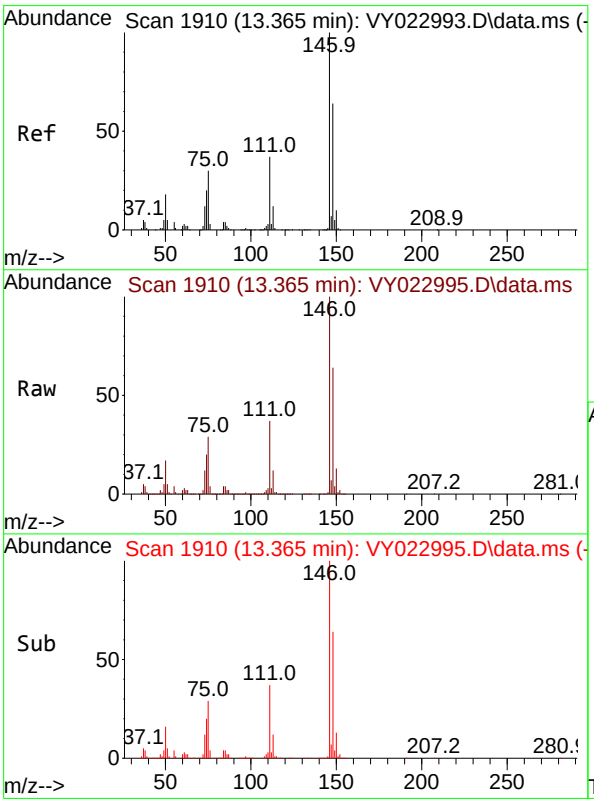
#87
1,3-Dichlorobenzene
Concen: 151.247 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1918495

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.8	59.3
148	63.4	31.6	94.8

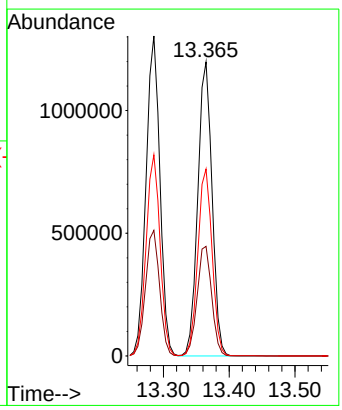


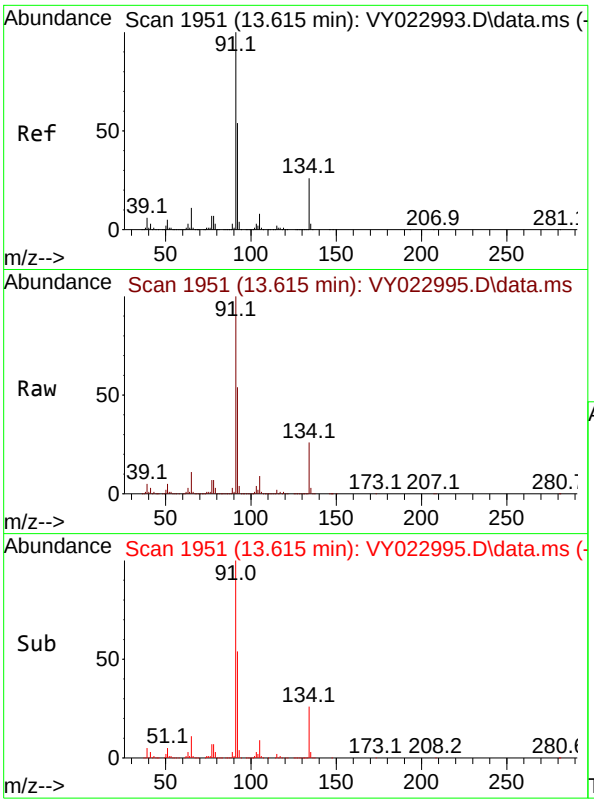


#88
1,4-Dichlorobenzene
Concen: 147.117 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:146 Resp: 1805316

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.2	57.6
148	63.6	31.9	95.5



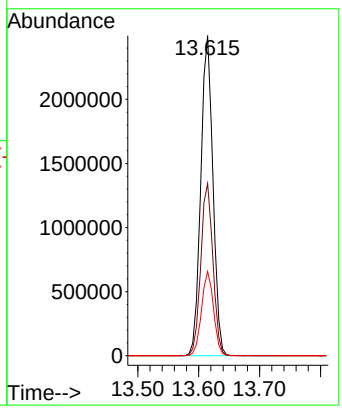


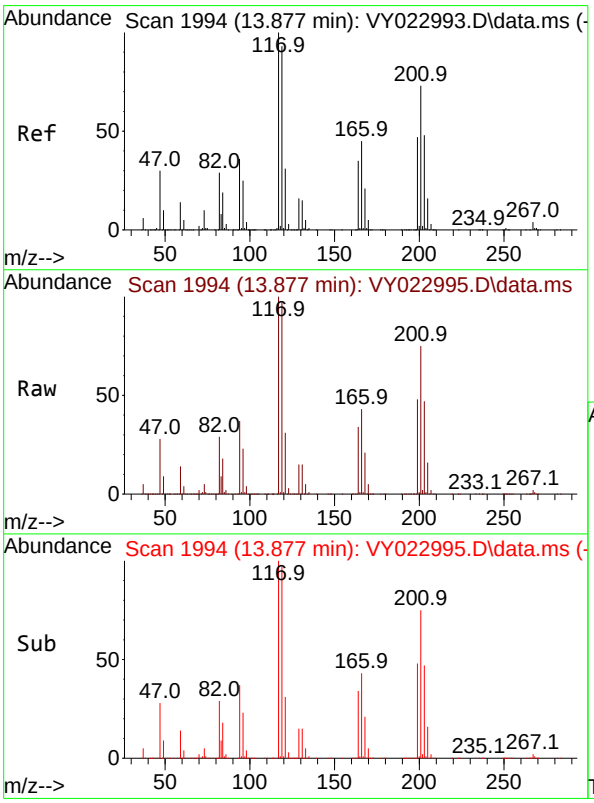
#89
n-Butylbenzene
Concen: 149.387 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 3463857

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.6	79.7
134	26.1	12.6	37.6

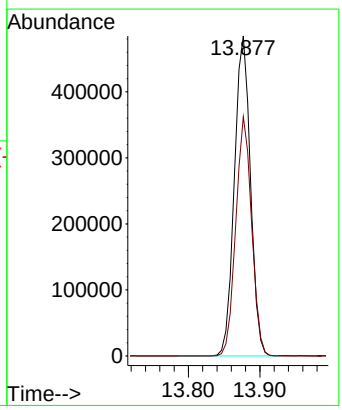


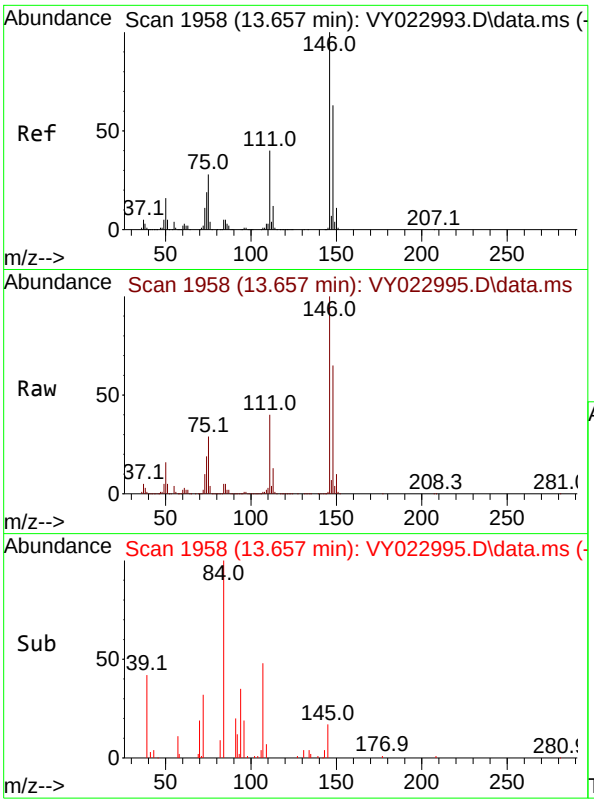


#90
Hexachloroethane
Concen: 145.277 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:117 Resp: 755795

Ion	Ratio	Lower	Upper
117	100		
201	73.8	36.1	108.5



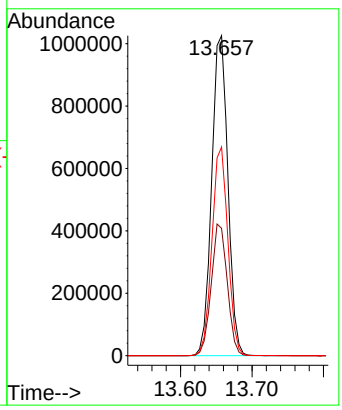


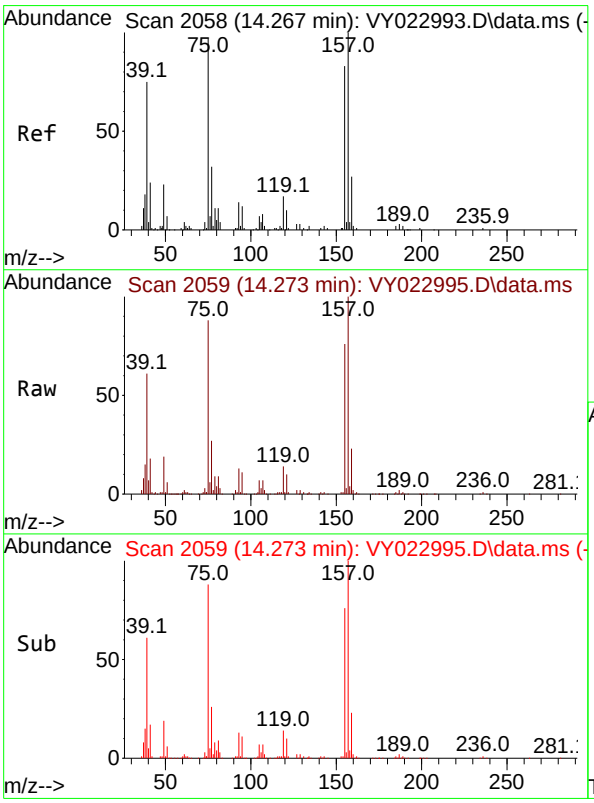
#91
1,2-Dichlorobenzene
Concen: 150.536 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1610657

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	64.1	32.0	96.2

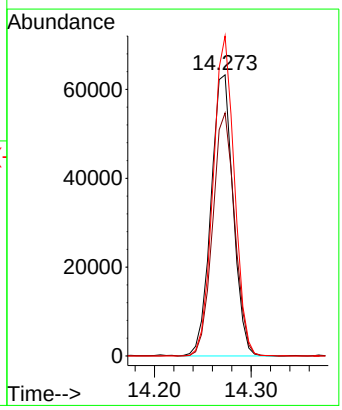


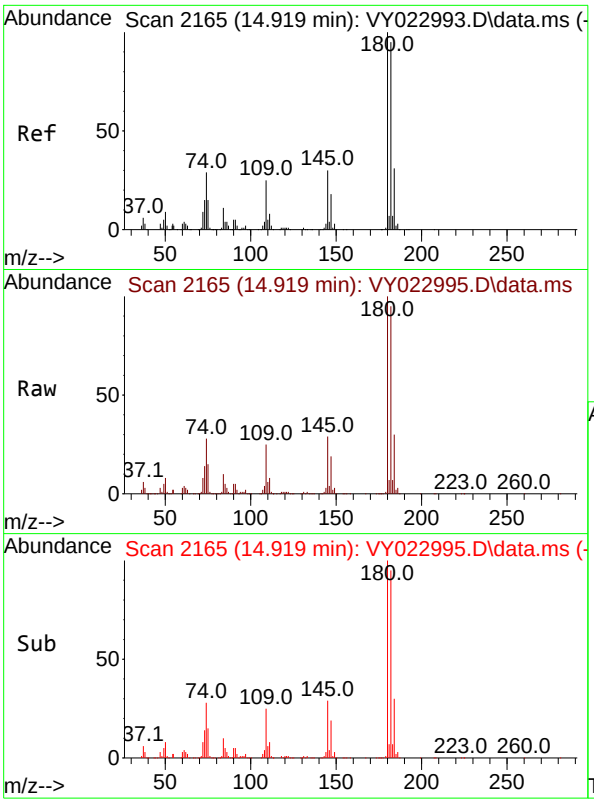


#92
1,2-Dibromo-3-Chloropropane
Concen: 161.332 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion: 75 Resp: 100462

Ion	Ratio	Lower	Upper
75	100		
155	86.2	42.8	128.3
157	109.7	54.3	162.9



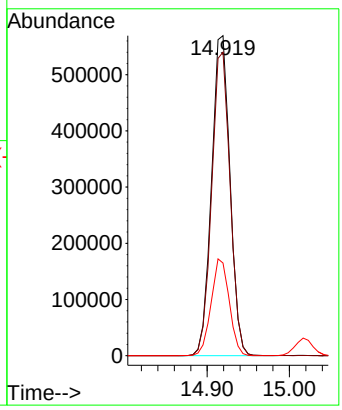


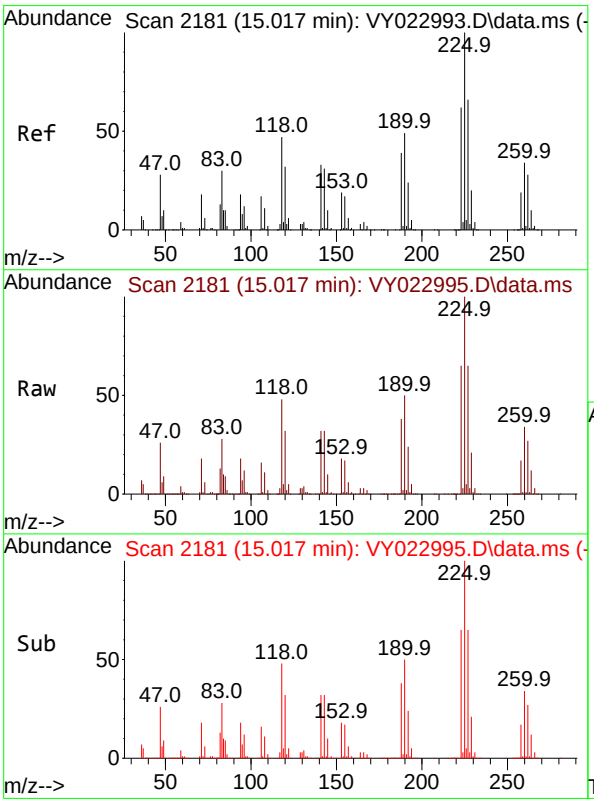
#93
1,2,4-Trichlorobenzene
Concen: 157.179 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 886472

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.5	142.5
145	29.8	14.9	44.9

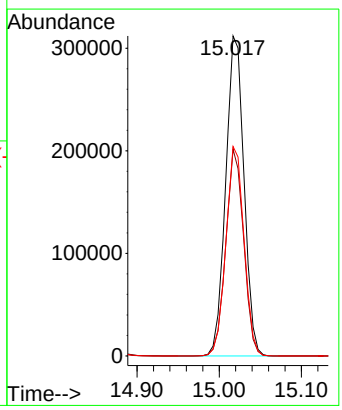


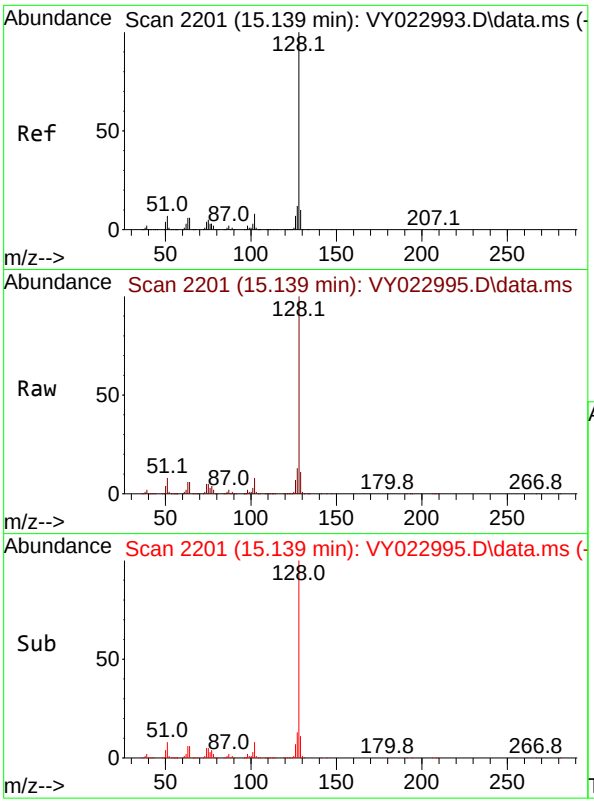


#94
Hexachlorobutadiene
Concen: 135.733 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:225 Resp: 482621

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.0
227	65.0	32.1	96.5



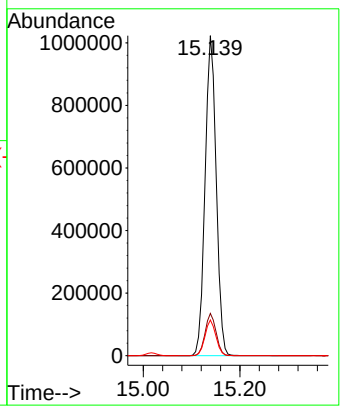


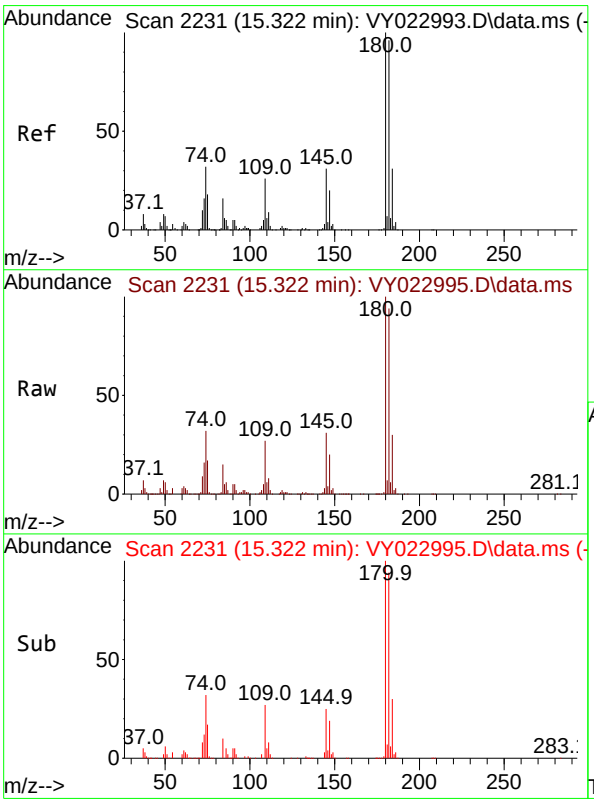
#95
Naphthalene
Concen: 180.758 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1635113

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.9	8.6	12.8

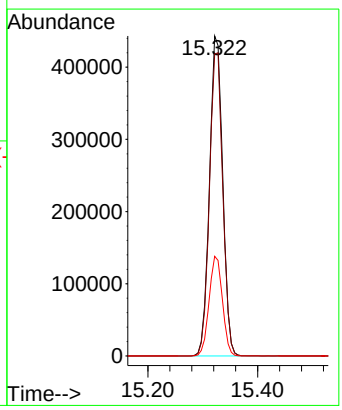




#96
1,2,3-Trichlorobenzene
Concen: 158.643 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY022995.D
Acq: 18 Jul 2025 12:49

Tgt Ion:180 Resp: 738766

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	31.4	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	453518	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	746741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	626160	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	299370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	226218	49.273	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.540%			
35) Dibromofluoromethane	7.634	113	223521	47.188	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.380%			
50) Toluene-d8	10.103	98	896545	47.728	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.460%			
62) 4-Bromofluorobenzene	12.401	95	281129	47.544	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	175922	45.684	ug/l	97
3) Chloromethane	2.068	50	324675	49.585	ug/l	99
4) Vinyl Chloride	2.202	62	415835	50.127	ug/l	99
5) Bromomethane	2.592	94	295948	49.431	ug/l	97
6) Chloroethane	2.732	64	278774	50.317	ug/l	97
7) Trichlorofluoromethane	3.056	101	465046	48.293	ug/l	99
8) Diethyl Ether	3.452	74	118735	47.110	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	245333	48.497	ug/l	99
10) Methyl Iodide	4.000	142	241459	45.946	ug/l	99
11) Tert butyl alcohol	4.848	59	73748	265.607	ug/l	98
12) 1,1-Dichloroethene	3.787	96	234490	48.659	ug/l	98
13) Acrolein	3.647	56	17160	131.522	ug/l	96
14) Allyl chloride	4.385	41	363225	49.474	ug/l	99
15) Acrylonitrile	5.049	53	244867	256.502	ug/l	99
16) Acetone	3.866	43	181785	218.434	ug/l	99
17) Carbon Disulfide	4.104	76	701041	47.999	ug/l	100
18) Methyl Acetate	4.378	43	144987	51.459	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	583103	50.446	ug/l	99
20) Methylene Chloride	4.616	84	289542	49.355	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	263910	49.197	ug/l	95
22) Diisopropyl ether	6.018	45	794156	50.987	ug/l	100
23) Vinyl Acetate	5.957	43	2045811	260.680	ug/l	100
24) 1,1-Dichloroethane	5.915	63	486435	49.723	ug/l	99
25) 2-Butanone	6.890	43	296567	248.403	ug/l	99
26) 2,2-Dichloropropane	6.884	77	411291	47.970	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	307144	49.681	ug/l	99
28) Bromochloromethane	7.244	49	190788	50.281	ug/l	97
29) Tetrahydrofuran	7.256	42	198327	262.377	ug/l	98
30) Chloroform	7.421	83	485939	49.239	ug/l	99
31) Cyclohexane	7.701	56	436690	47.772	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	433361	48.396	ug/l	98
36) 1,1-Dichloropropene	7.835	75	359563	48.190	ug/l	99
37) Ethyl Acetate	6.976	43	136167	49.138	ug/l	99
38) Carbon Tetrachloride	7.817	117	385805	47.594	ug/l	98
39) Methylcyclohexane	9.109	83	480021	49.705	ug/l	99
40) Benzene	8.079	78	1095313	48.756	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	65688	43.514	ug/l		90
42) 1,2-Dichloroethane	8.158	62	273227	48.885	ug/l		99
43) Isopropyl Acetate	8.195	43	282687	51.356	ug/l	#	87
44) Trichloroethene	8.865	130	271109	46.984	ug/l		99
45) 1,2-Dichloropropane	9.140	63	254972	48.601	ug/l		97
46) Dibromomethane	9.225	93	130449	48.105	ug/l		98
47) Bromodichloromethane	9.420	83	365153	48.715	ug/l		98
48) Methyl methacrylate	9.219	41	137807	51.856	ug/l		99
49) 1,4-Dioxane	9.219	88	29701	1039.077	ug/l		90
51) 4-Methyl-2-Pentanone	9.993	43	736605	263.650	ug/l		100
52) Toluene	10.170	92	689665	49.377	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	320495	49.810	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	379652	48.953	ug/l		97
55) 1,1,2-Trichloroethane	10.566	97	174146	48.860	ug/l		98
56) Ethyl methacrylate	10.438	69	233062	52.383	ug/l		99
57) 1,3-Dichloropropane	10.713	76	305501	49.619	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	555885	255.234	ug/l		99
59) 2-Hexanone	10.755	43	480633	261.717	ug/l		100
60) Dibromochloromethane	10.908	129	228677	48.997	ug/l		100
61) 1,2-Dibromoethane	11.011	107	160833	49.692	ug/l		99
64) Tetrachloroethene	10.646	164	293758	45.898	ug/l		97
65) Chlorobenzene	11.438	112	717316	48.547	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	243320	48.281	ug/l		100
67) Ethyl Benzene	11.517	91	1318781	50.355	ug/l		100
68) m/p-Xylenes	11.627	106	1010405	100.584	ug/l		100
69) o-Xylene	11.950	106	473728	50.815	ug/l		99
70) Styrene	11.969	104	777326	50.903	ug/l		100
71) Bromoform	12.127	173	127473	49.825	ug/l	#	98
73) Isopropylbenzene	12.249	105	1251340	49.302	ug/l		100
74) N-amyl acetate	12.066	43	250015	52.247	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	183595	49.985	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	252964	67.812	ug/l	#	100
77) Bromobenzene	12.529	156	264397	48.030	ug/l		99
78) n-propylbenzene	12.590	91	1513140	50.062	ug/l		100
79) 2-Chlorotoluene	12.676	91	839059	49.359	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1003448	50.127	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	58179	46.452	ug/l		99
82) 4-Chlorotoluene	12.773	91	844578	49.261	ug/l		100
83) tert-Butylbenzene	12.993	119	916326	50.676	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	992142	50.349	ug/l		100
85) sec-Butylbenzene	13.170	105	1377425	50.832	ug/l		100
86) p-Isopropyltoluene	13.285	119	1135708	51.605	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	544171	48.983	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	520095	48.393	ug/l		100
89) n-Butylbenzene	13.615	91	1047169	51.565	ug/l		100
90) Hexachloroethane	13.877	117	225252	49.436	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	452157	48.252	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	27119	49.725	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	241340	48.859	ug/l		99
94) Hexachlorobutadiene	15.017	225	147040	47.217	ug/l		100
95) Naphthalene	15.139	128	404535	51.062	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	199538	48.924	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

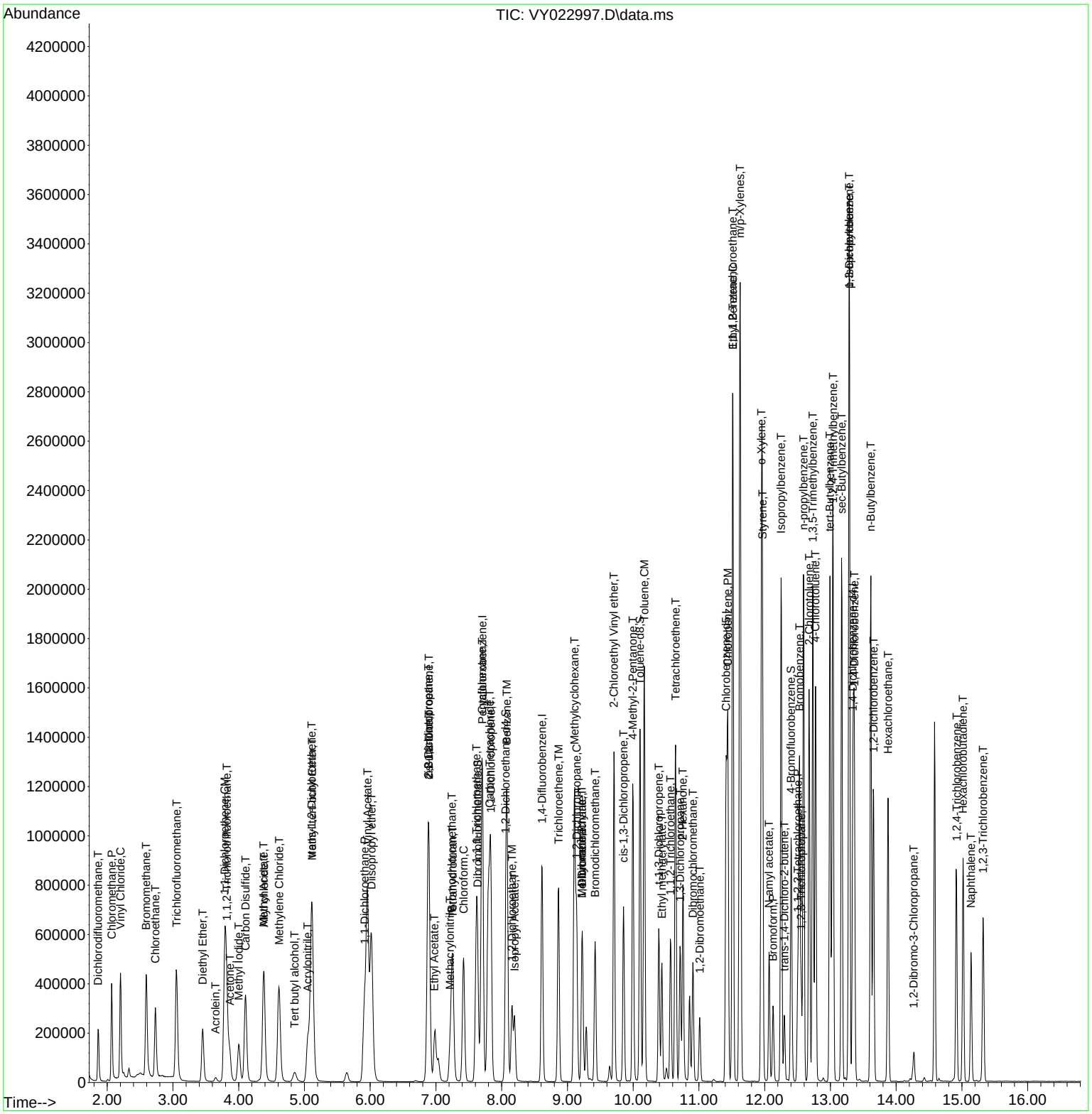
(#) = qualifier out of range (m) = manual integration (+) = signals summed

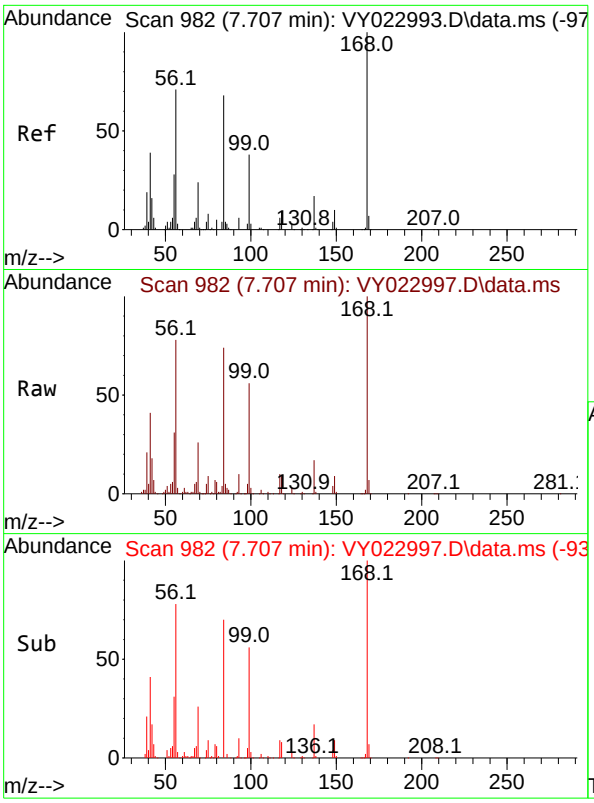
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022997.D
Acq On : 18 Jul 2025 14:02
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Quant Time: Jul 19 01:54:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



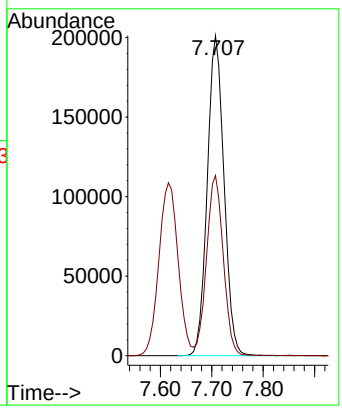


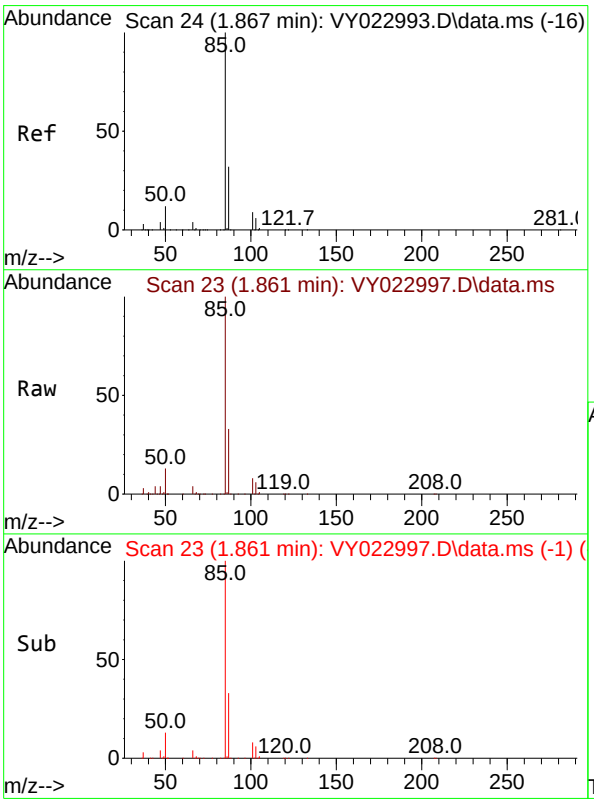
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:168 Resp: 453518

Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.4	66.6

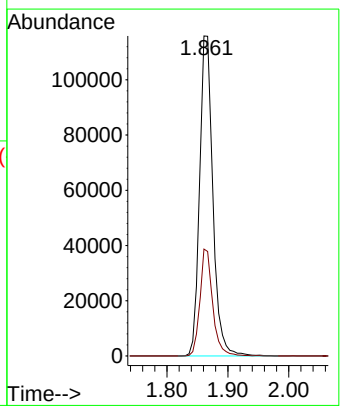


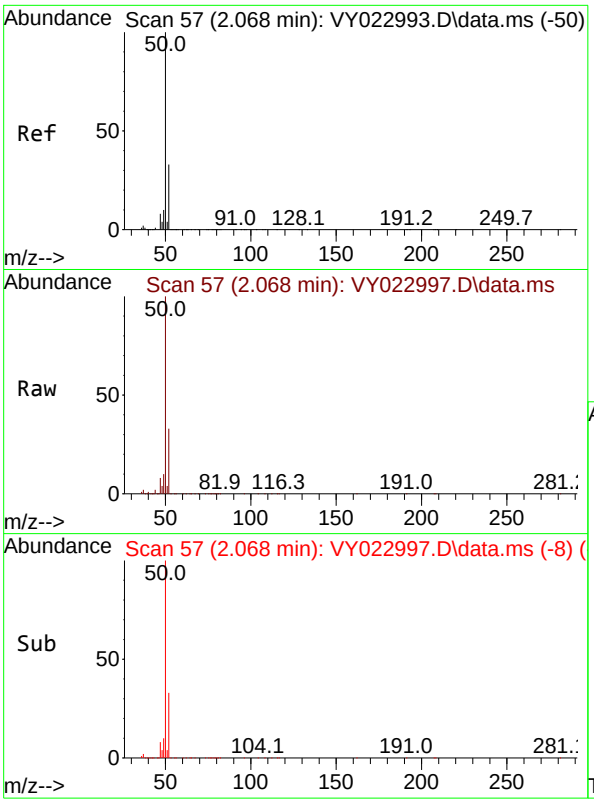


#2
Dichlorodifluoromethane
Concen: 45.684 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 85 Resp: 175922

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.0	47.9



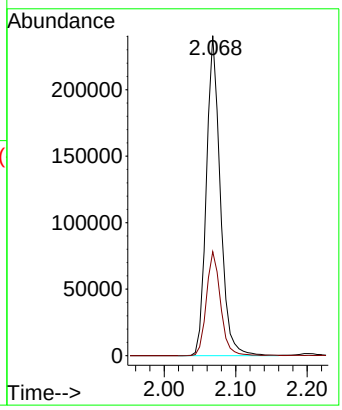


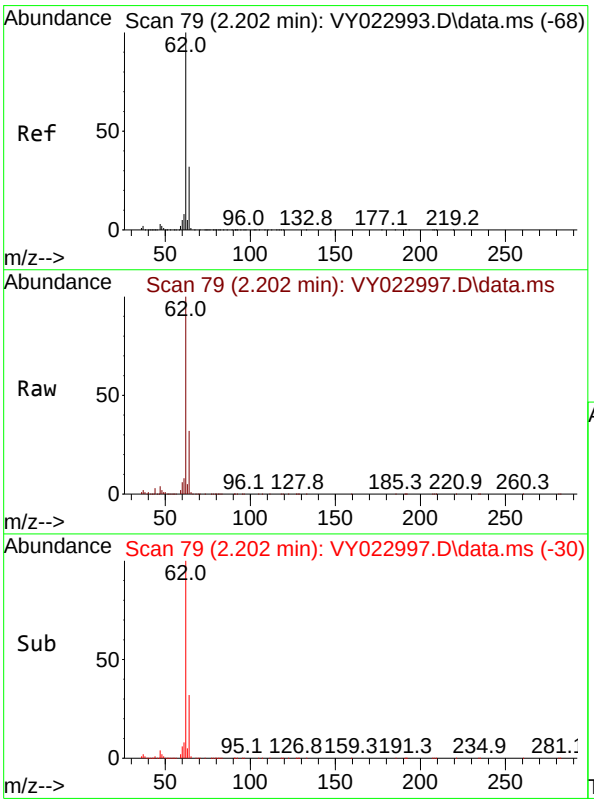
#3
Chloromethane
Concen: 49.585 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 50 Resp: 324675

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.6	39.8

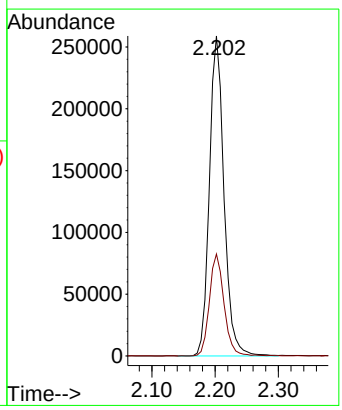


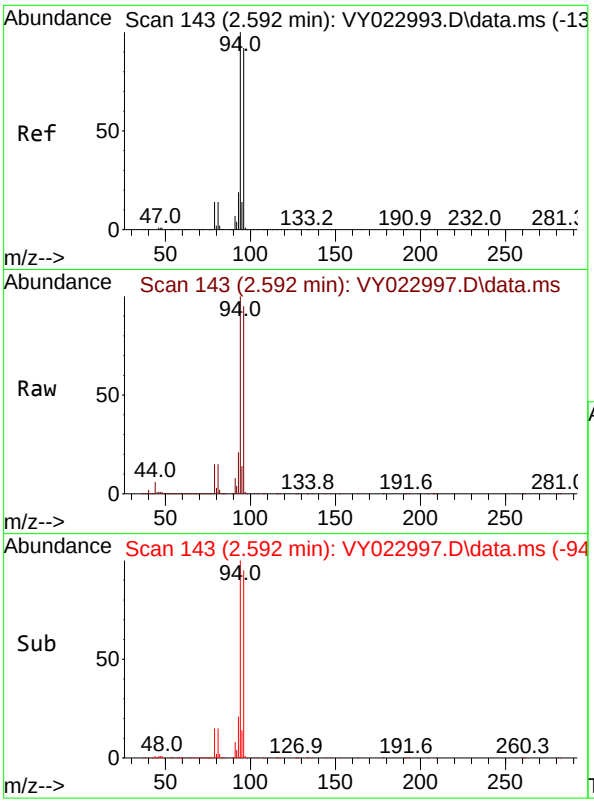


#4
Vinyl Chloride
Concen: 50.127 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 62 Resp: 415835

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.2	37.8



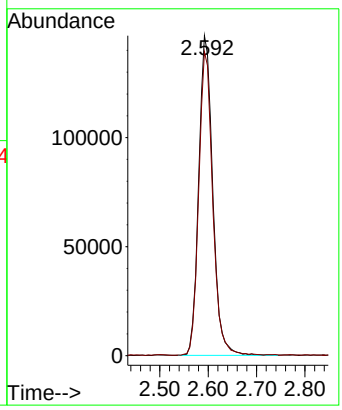


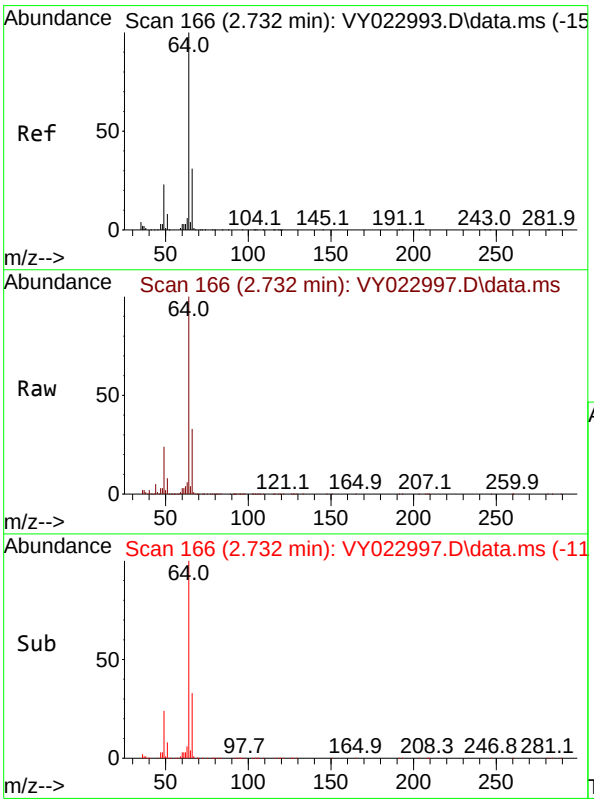
#5
Bromomethane
Concen: 49.431 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 94 Resp: 295948

Ion	Ratio	Lower	Upper
94	100		
96	94.8	73.9	110.9

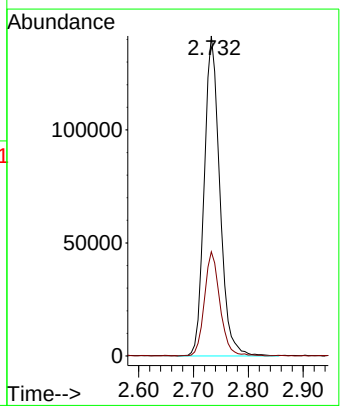


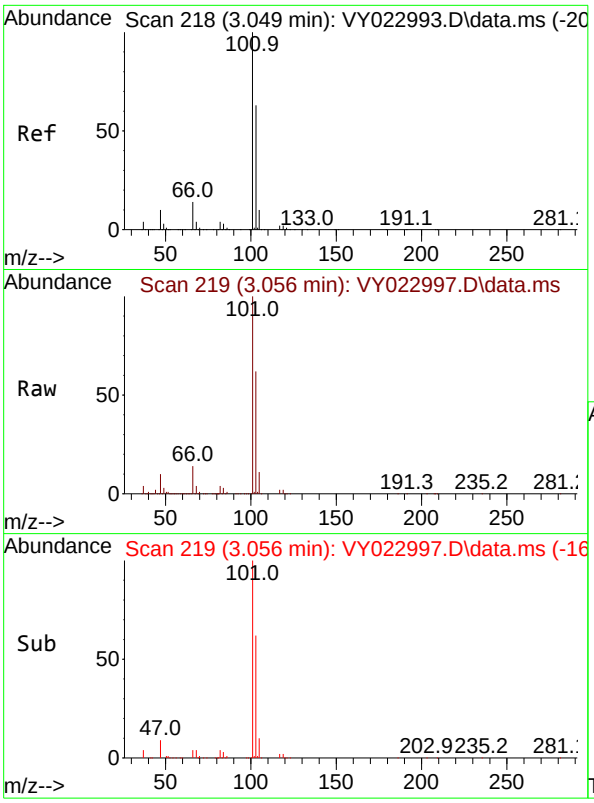


#6
Chloroethane
Concen: 50.317 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 64 Resp: 278774

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.9	37.3



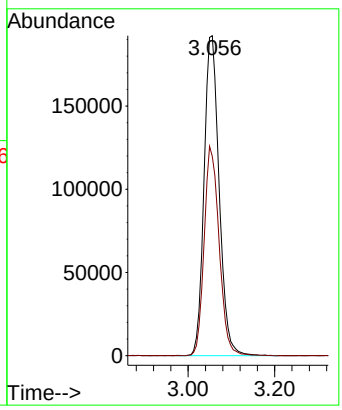


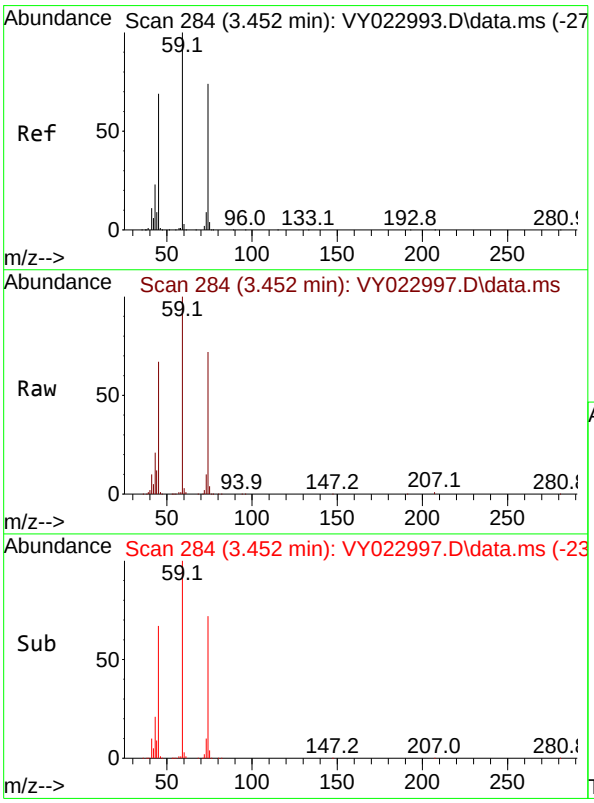
#7
Trichlorofluoromethane
Concen: 48.293 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:101 Resp: 465046

Ion	Ratio	Lower	Upper
101	100		
103	62.3	50.7	76.1

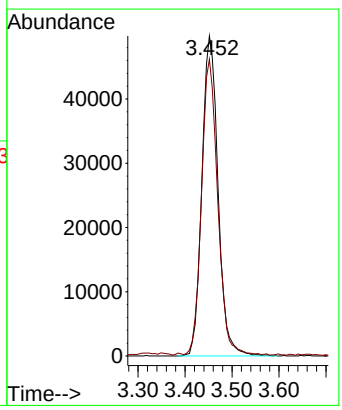


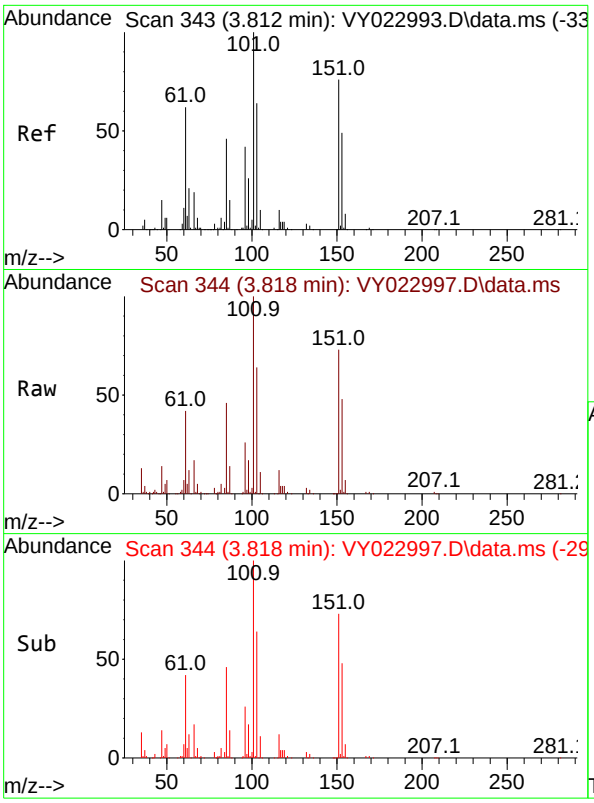


#8
Diethyl Ether
Concen: 47.110 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 74 Resp: 118735

Ion	Ratio	Lower	Upper
74	100		
45	93.2	45.1	135.2



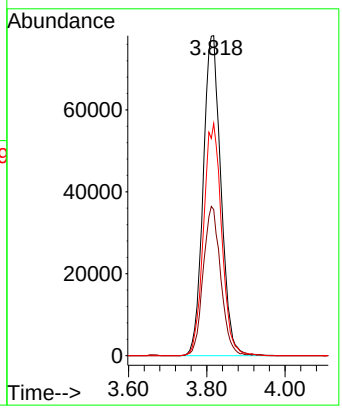


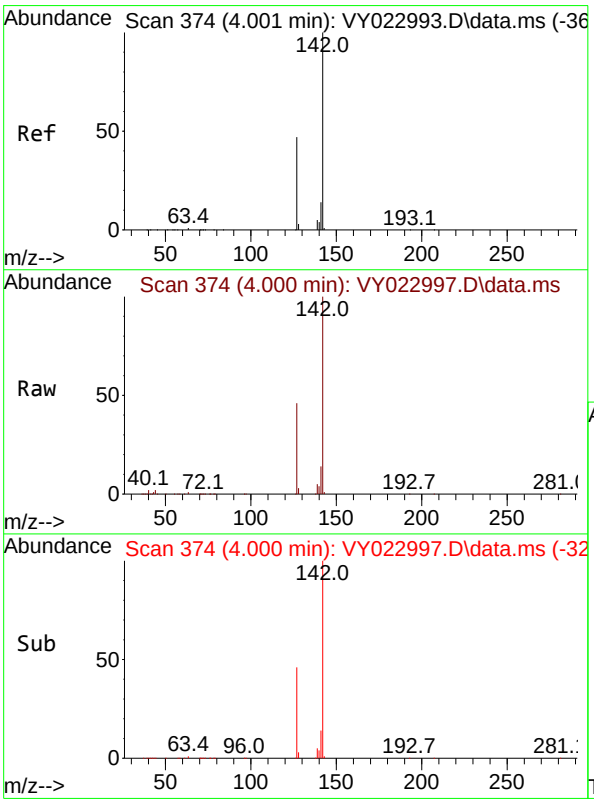
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.497 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:101 Resp: 245333

Ion	Ratio	Lower	Upper
101	100		
85	46.1	37.2	55.8
151	74.0	59.7	89.5

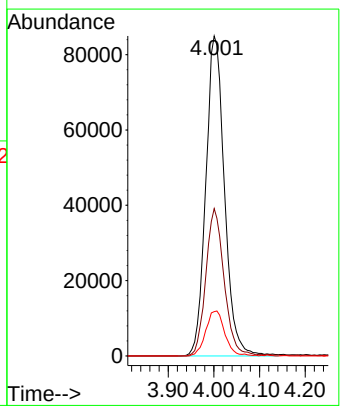


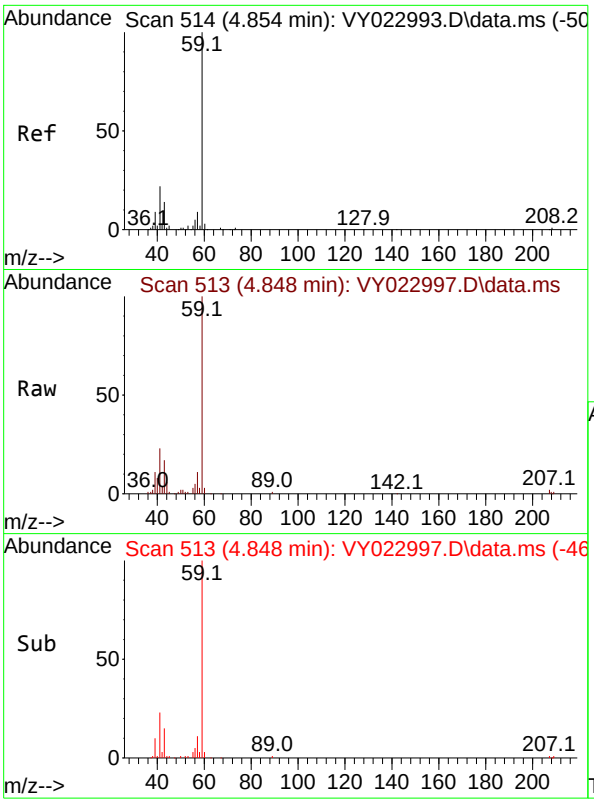


#10
Methyl Iodide
Concen: 45.946 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:142 Resp: 241459

Ion	Ratio	Lower	Upper
142	100		
127	45.1	37.0	55.6
141	14.4	11.4	17.2



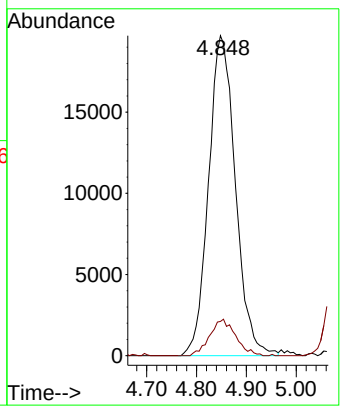


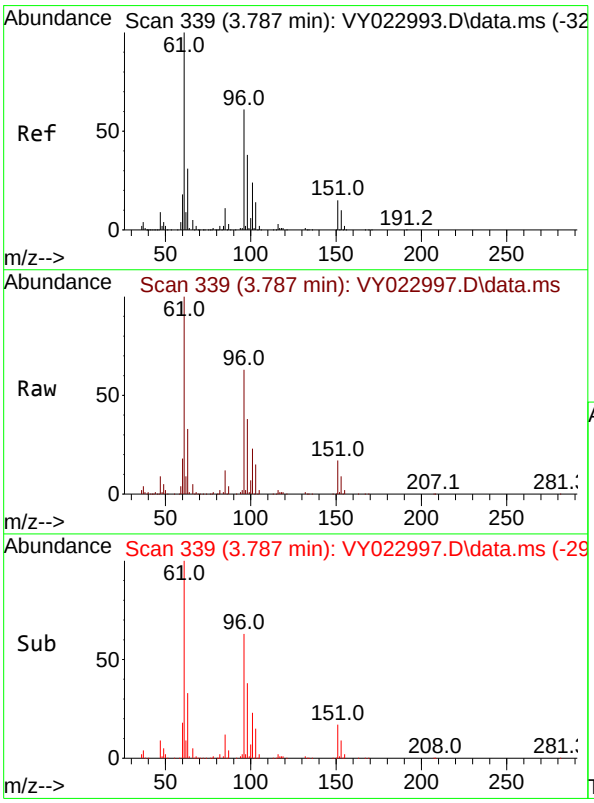
#11
Tert butyl alcohol
Concen: 265.607 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 59 Resp: 73748

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.2	12.2

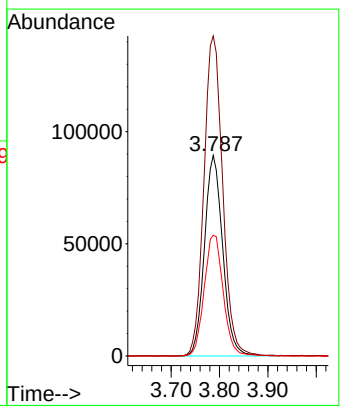


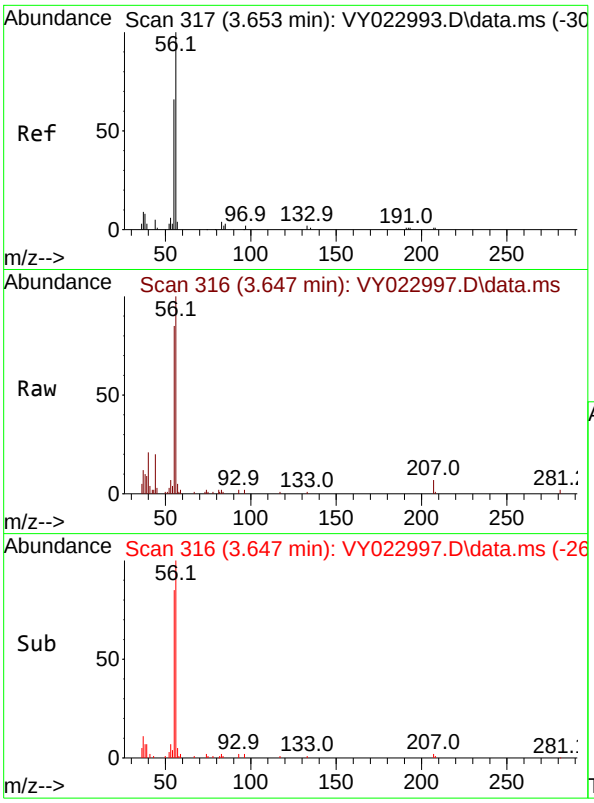


#12
1,1-Dichloroethene
Concen: 48.659 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 96 Resp: 234490

Ion	Ratio	Lower	Upper
96	100		
61	159.6	130.4	195.6
98	60.2	49.6	74.4



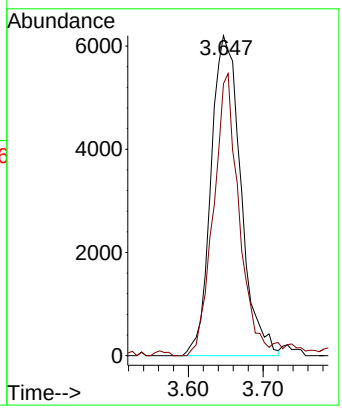


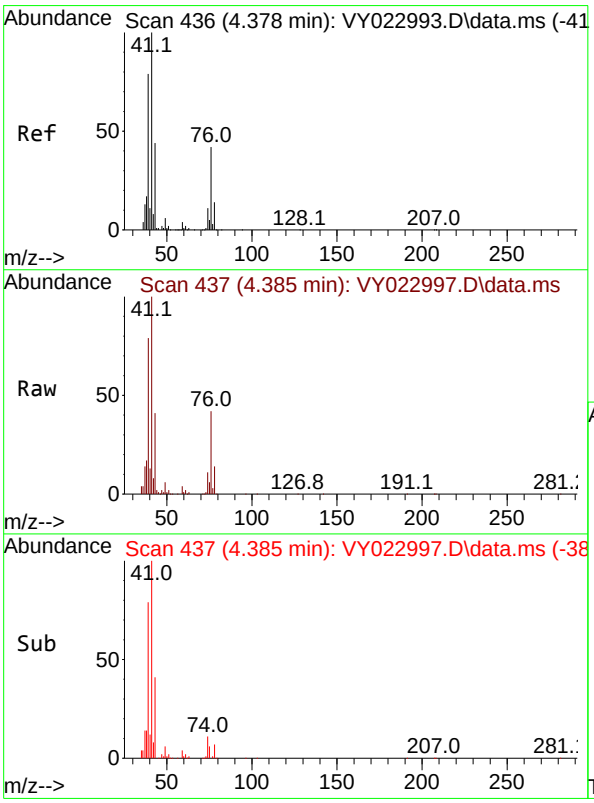
#13
Acrolein
Concen: 131.522 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 56 Resp: 17160

Ion	Ratio	Lower	Upper
56	100		
55	75.3	57.8	86.6

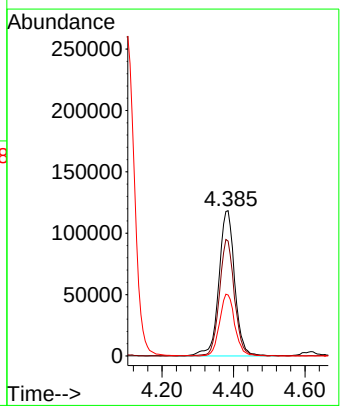


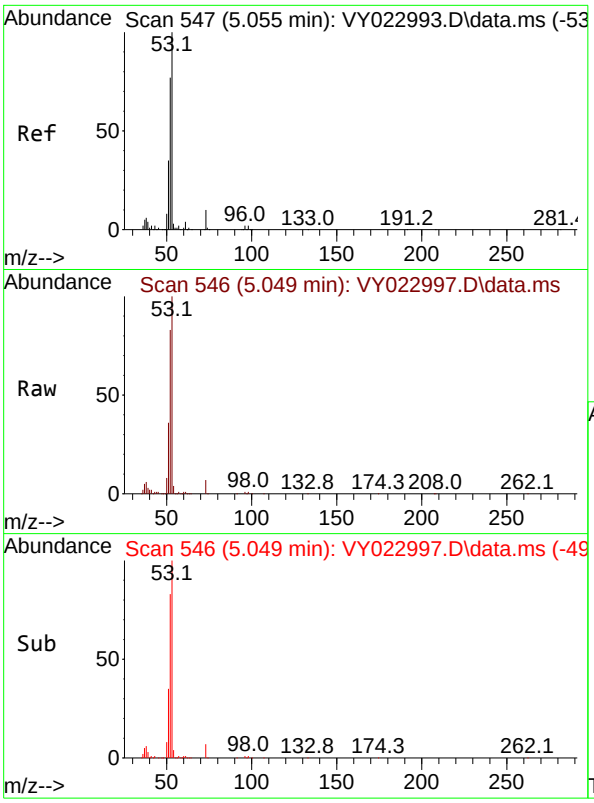


#14
Allyl chloride
Concen: 49.474 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 41 Resp: 363225

Ion	Ratio	Lower	Upper
41	100		
39	76.0	60.1	90.1
76	40.7	32.2	48.4



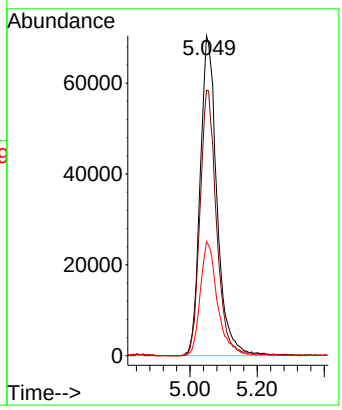


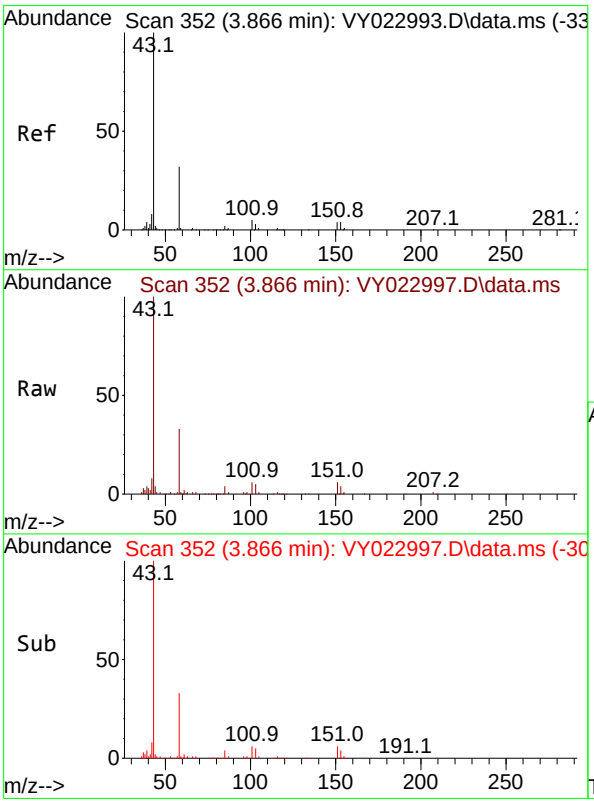
#15
Acrylonitrile
Concen: 256.502 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 53 Resp: 244867

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.2	97.8
51	36.6	30.3	45.5

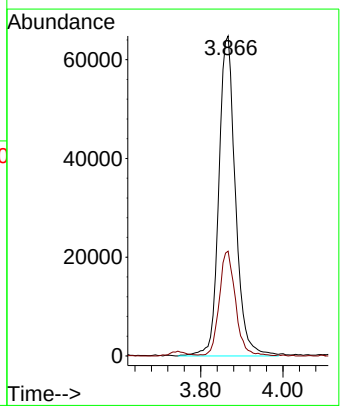


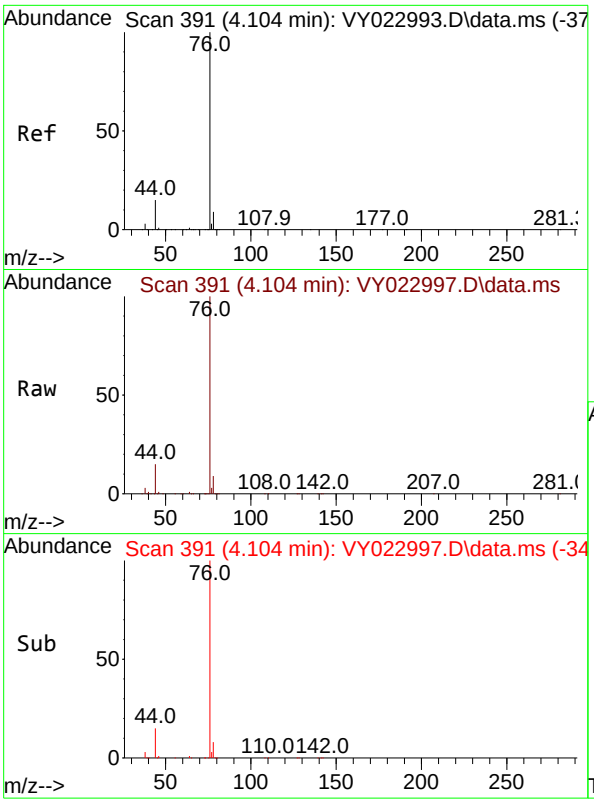


#16
Acetone
Concen: 218.434 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 181785

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.2	39.4



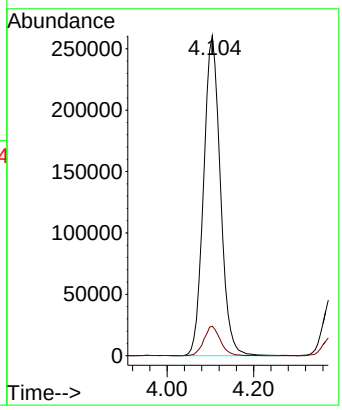


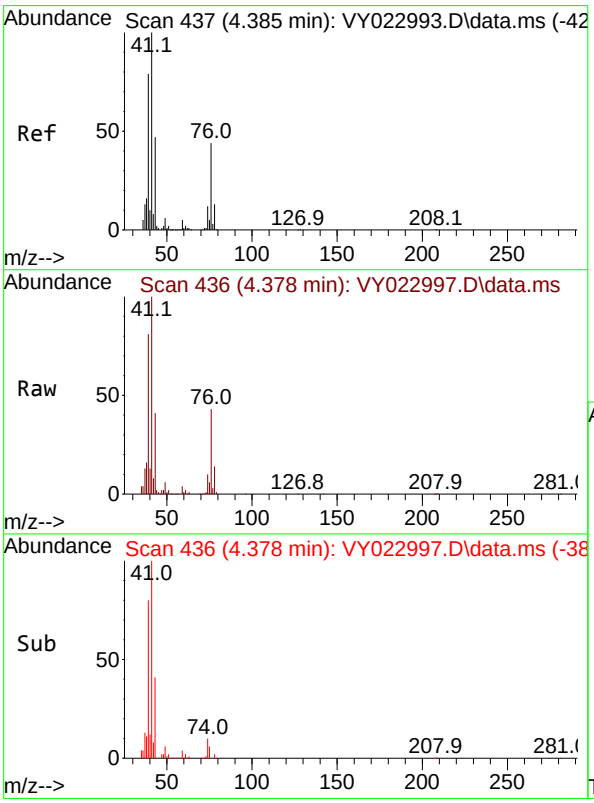
#17
Carbon Disulfide
Concen: 47.999 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 76 Resp: 701041

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

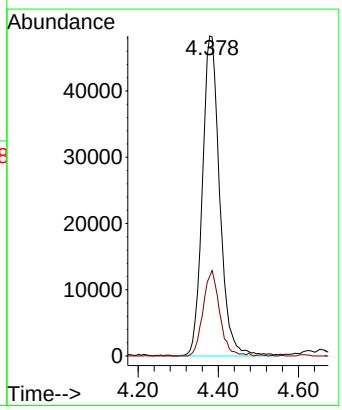


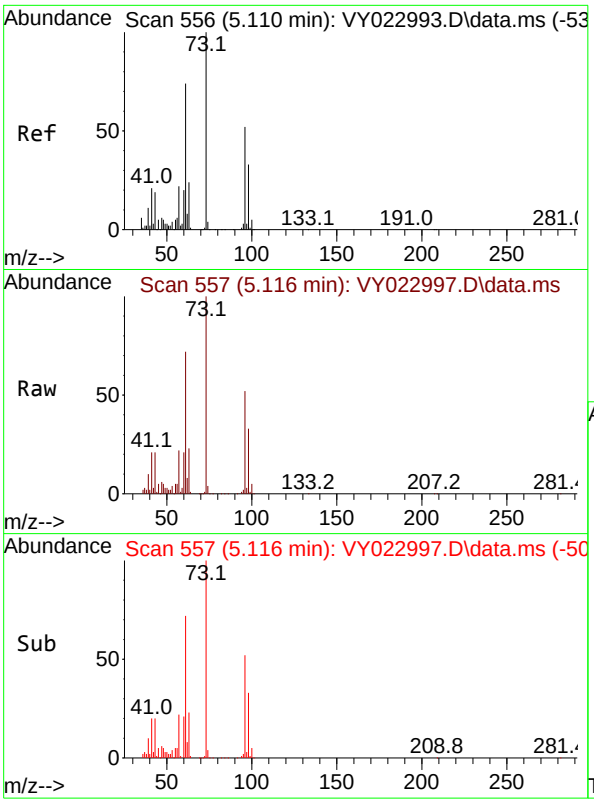


#18
Methyl Acetate
Concen: 51.459 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 144987

Ion	Ratio	Lower	Upper
43	100		
74	25.6	20.1	30.1



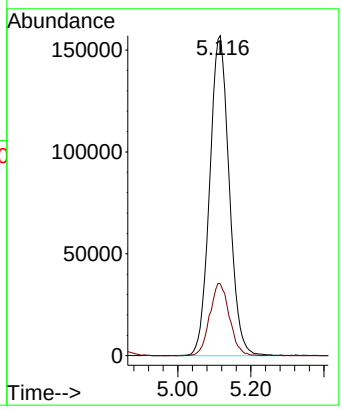


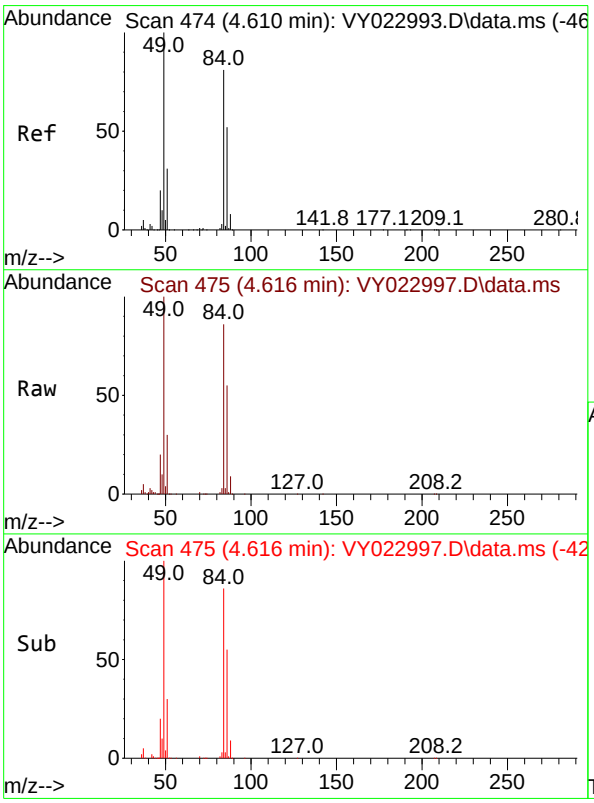
#19
Methyl tert-butyl Ether
Concen: 50.446 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 73 Resp: 583103

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.4	26.2

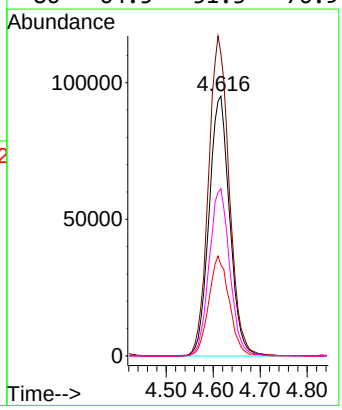


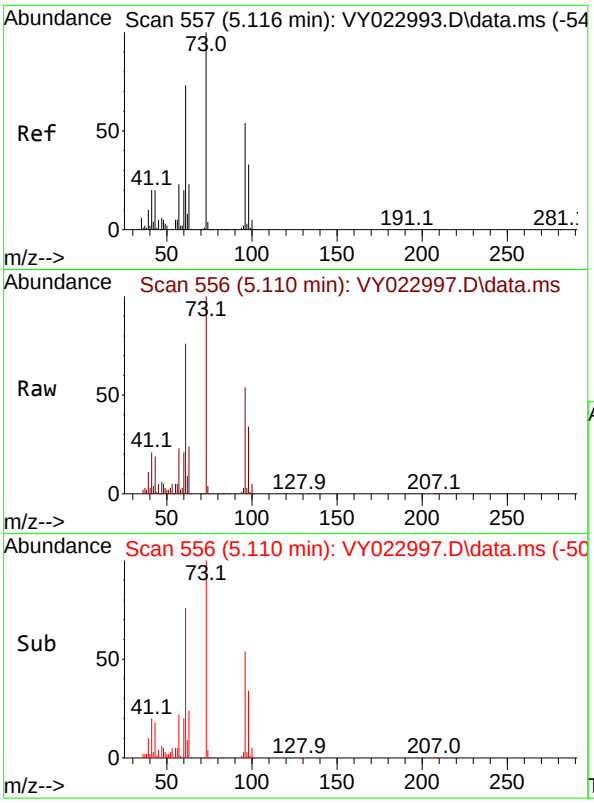


#20
Methylene Chloride
Concen: 49.355 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 84 Resp: 289542

Ion	Ratio	Lower	Upper
84	100		
49	116.4	98.2	147.4
51	35.1	30.5	45.7
86	64.5	51.3	76.9



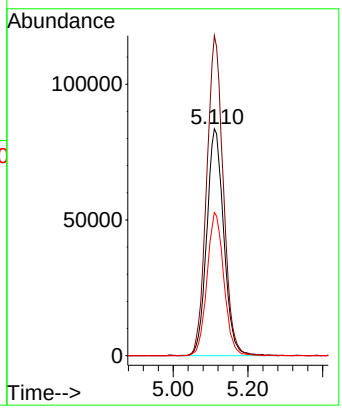


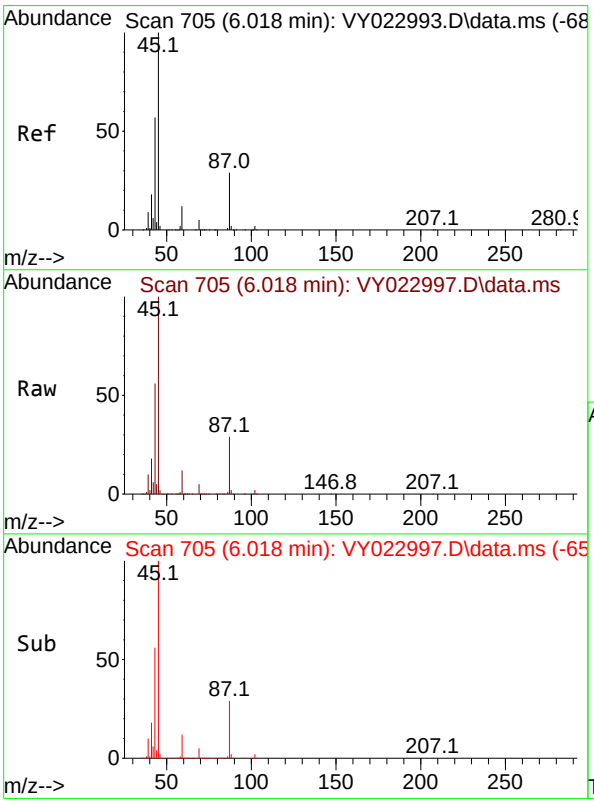
#21
trans-1,2-Dichloroethene
Concen: 49.197 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 96 Resp: 263910

Ion	Ratio	Lower	Upper
96	100		
61	141.1	107.4	161.2
98	63.2	49.3	73.9

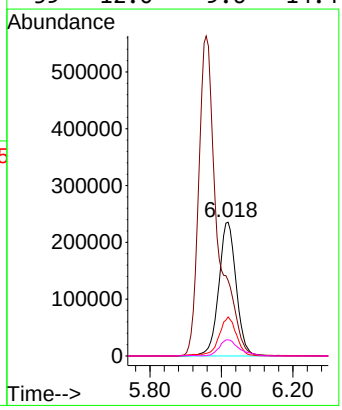


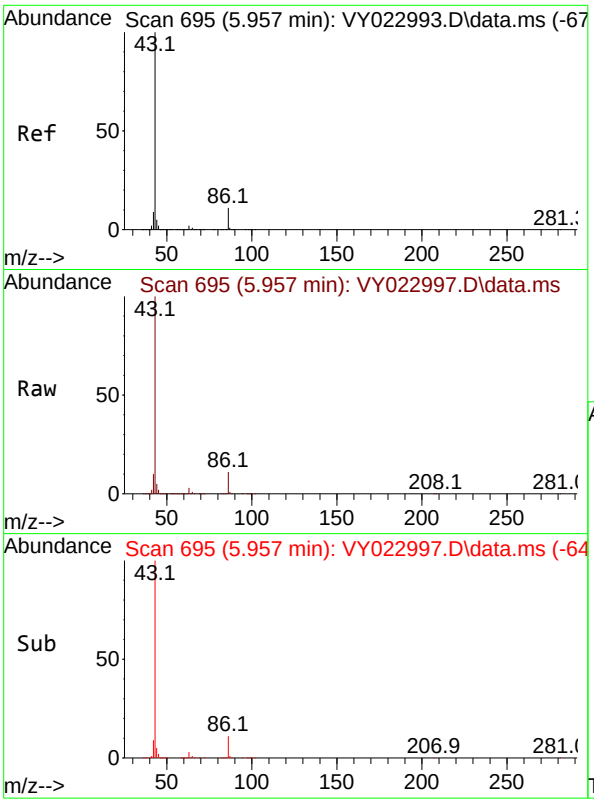


#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 45 Resp: 794156

Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.3	67.9
87	29.1	23.3	34.9
59	12.0	9.6	14.4



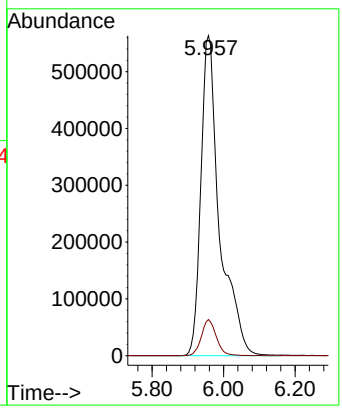


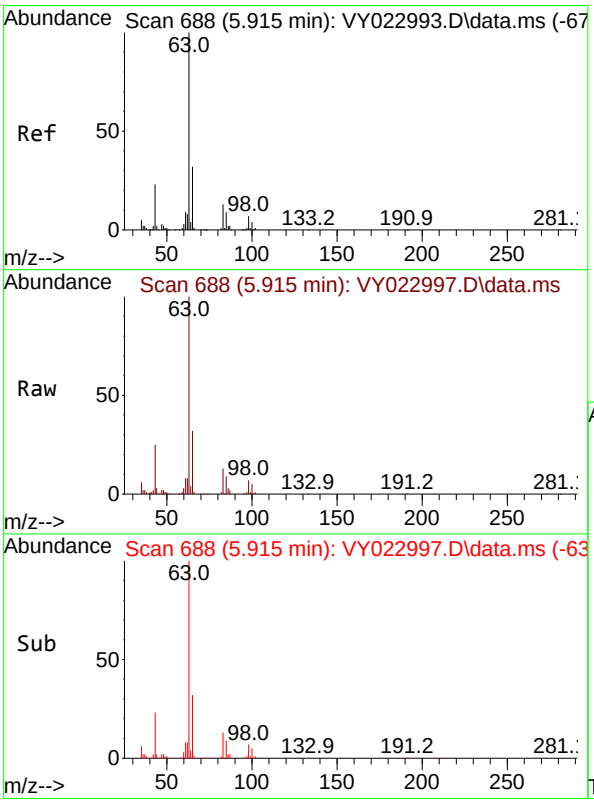
#23
Vinyl Acetate
Concen: 260.680 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 43 Resp: 2045811

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.0	13.4

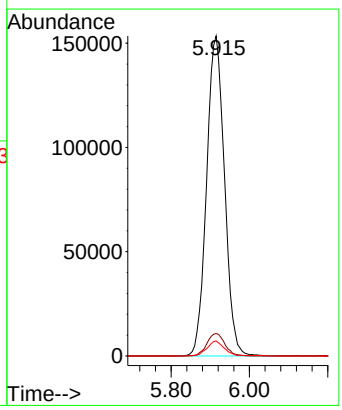


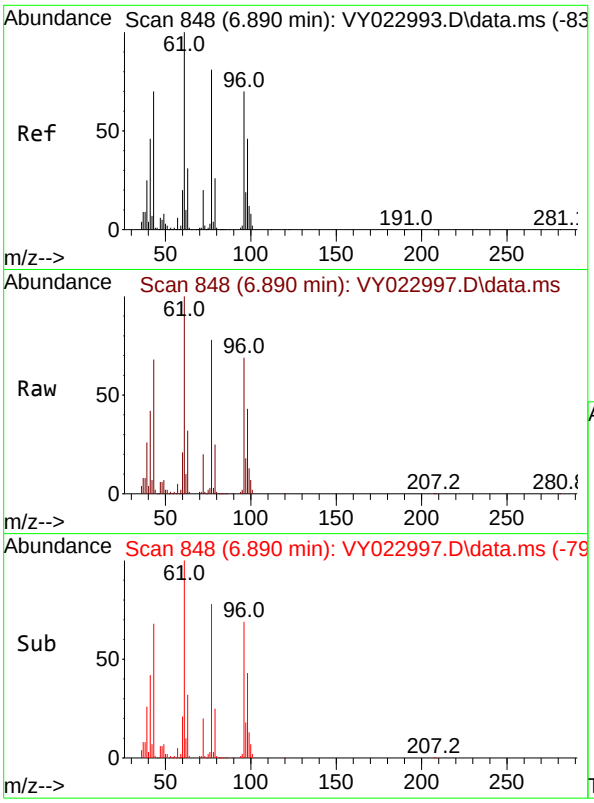


#24
1,1-Dichloroethane
Concen: 49.723 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 63 Resp: 486435

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.7	2.1	6.2



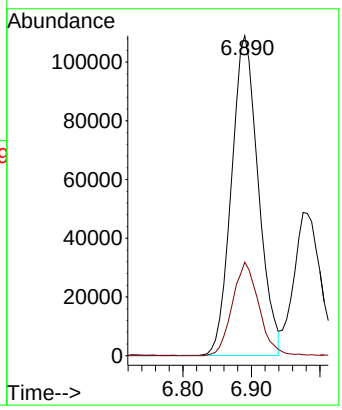


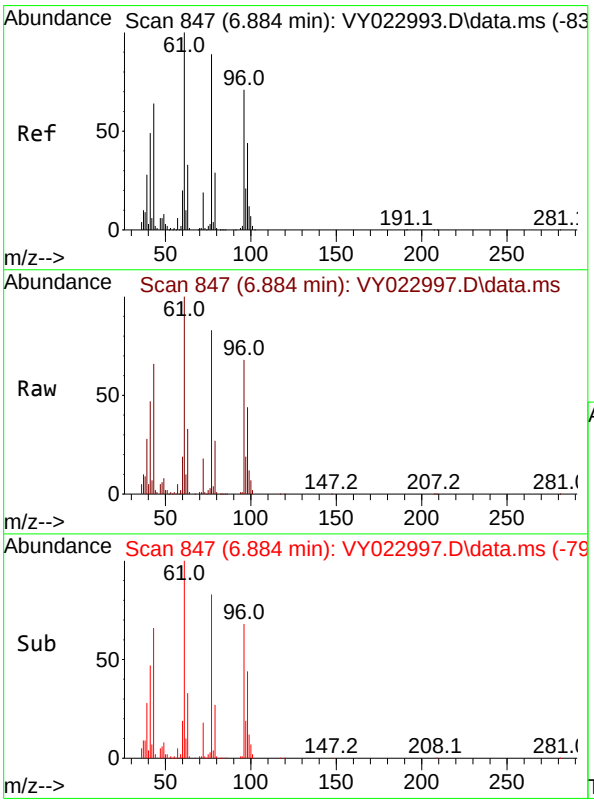
#25
2-Butanone
Concen: 248.403 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 43 Resp: 296567

Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.9	34.3

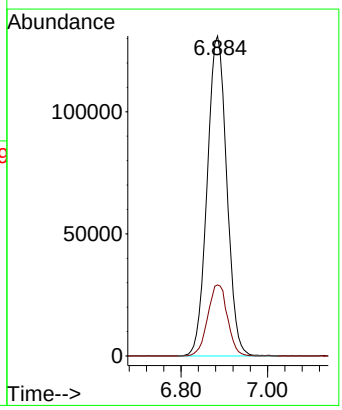


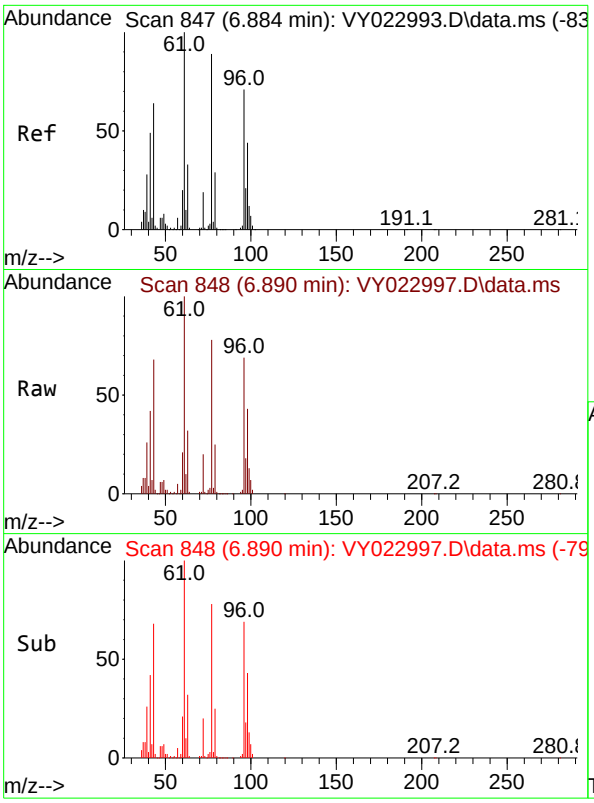


#26
2,2-Dichloropropane
Concen: 47.970 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 77 Resp: 411291

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.3	33.9



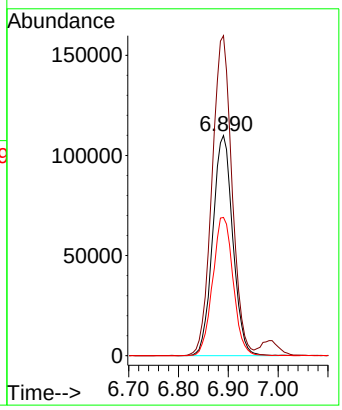


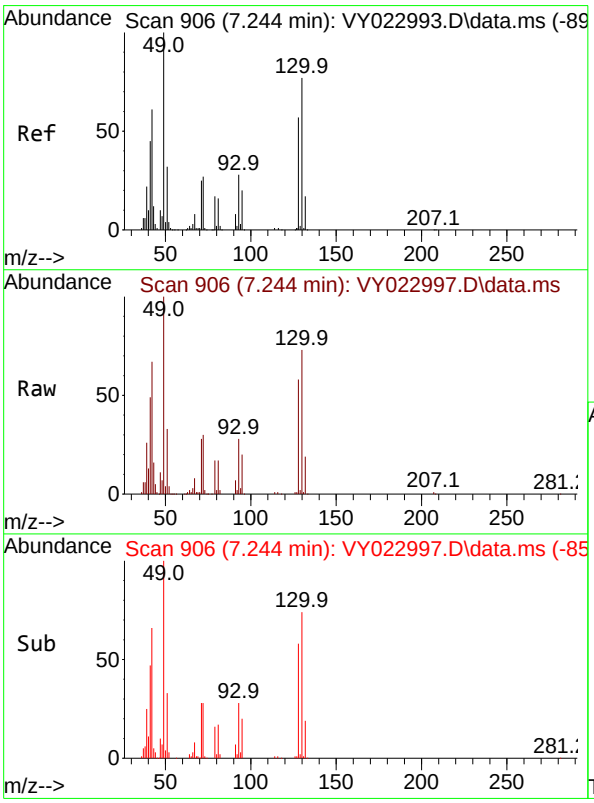
#27
cis-1,2-Dichloroethene
Concen: 49.681 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 96 Resp: 307144

Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	286.2
98	64.1	0.0	127.4

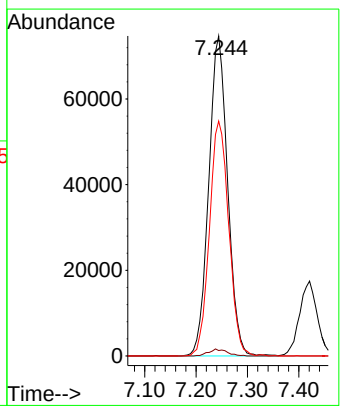


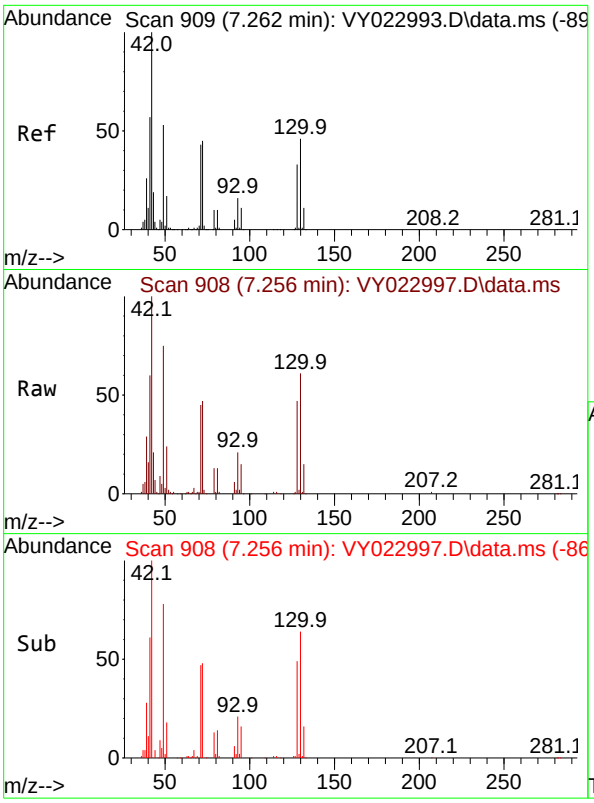


#28
Bromochloromethane
Concen: 50.281 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 49 Resp: 190788

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	74.9	61.8	92.8



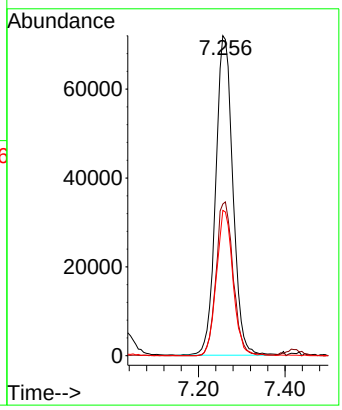


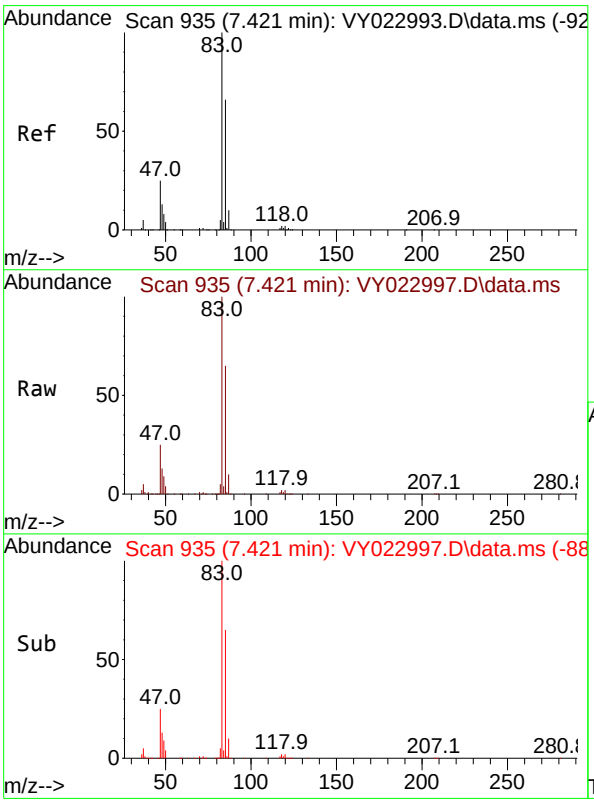
#29
Tetrahydrofuran
Concen: 262.377 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 42 Resp: 198327

Ion	Ratio	Lower	Upper
42	100		
72	48.0	37.5	56.3
71	43.8	34.2	51.4

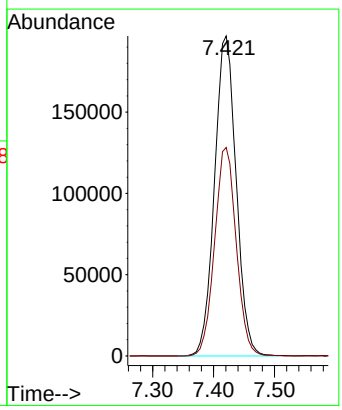


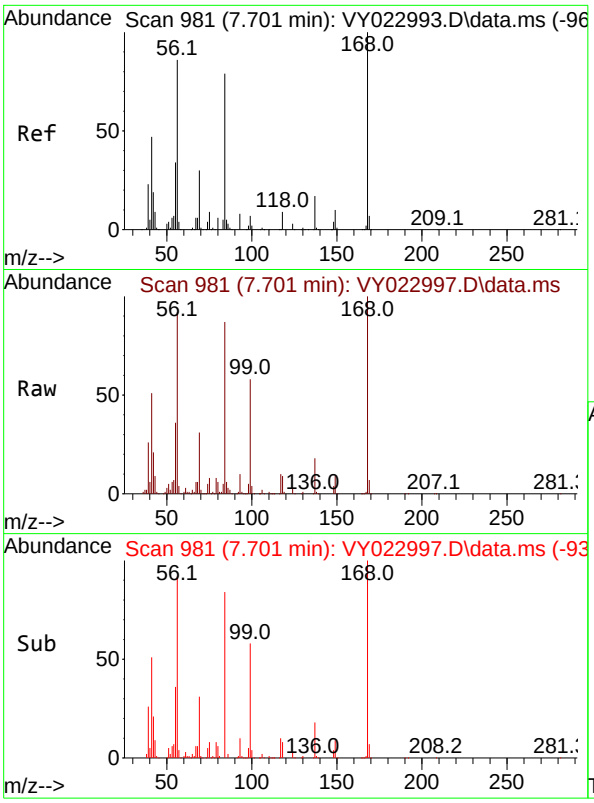


#30
Chloroform
Concen: 49.239 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 83 Resp: 485939

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.6	78.8



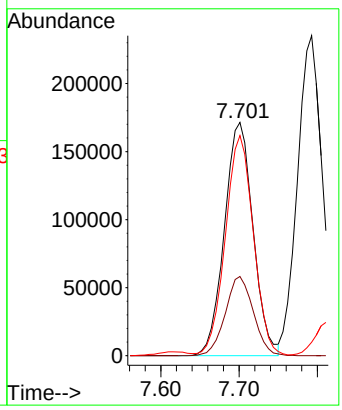


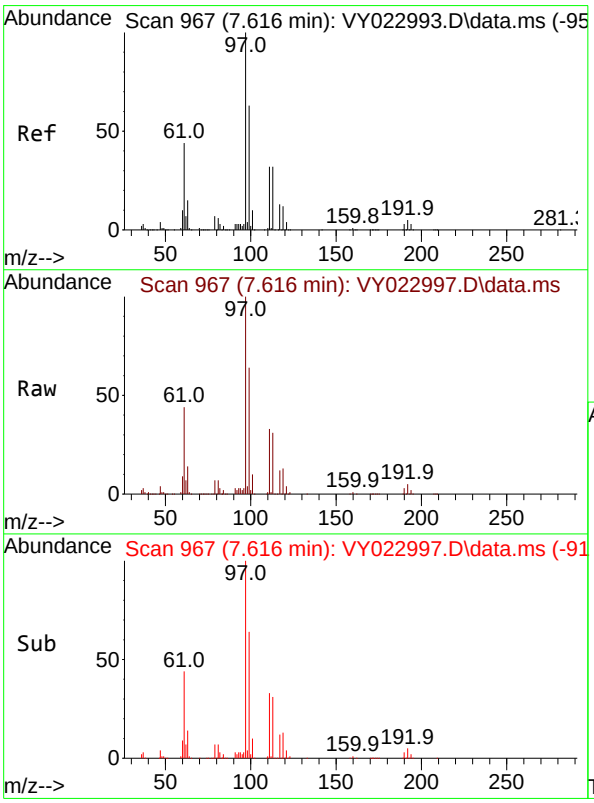
#31
Cyclohexane
Concen: 47.772 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 56 Resp: 436690

Ion	Ratio	Lower	Upper
56	100		
69	33.9	28.1	42.1
84	92.8	73.5	110.3

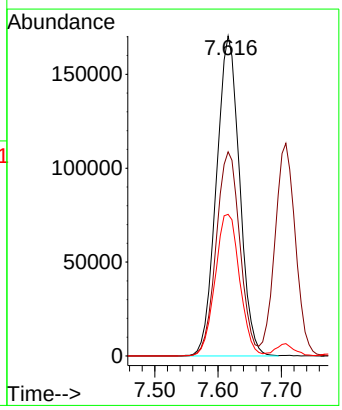


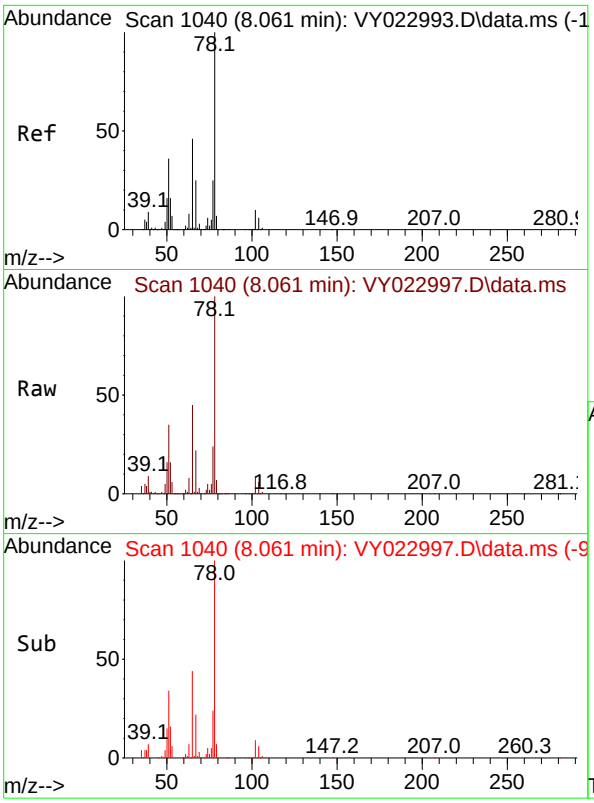


#32
1,1,1-Trichloroethane
Concen: 48.396 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 97 Resp: 433361

Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.1	76.7
61	46.8	36.1	54.1



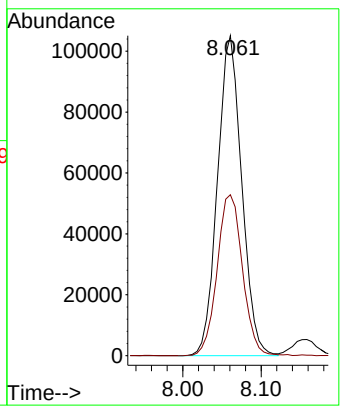


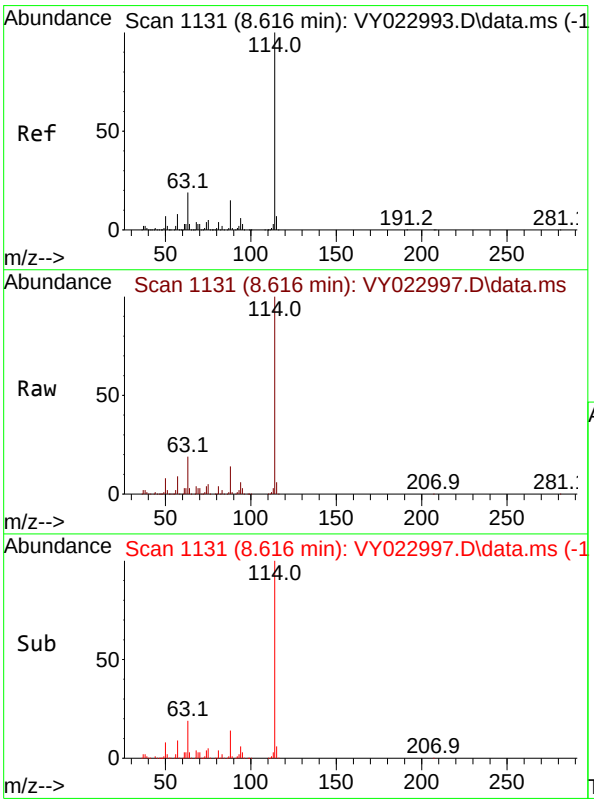
#33
1,2-Dichloroethane-d4
Concen: 49.273 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 65 Resp: 226218

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	107.4

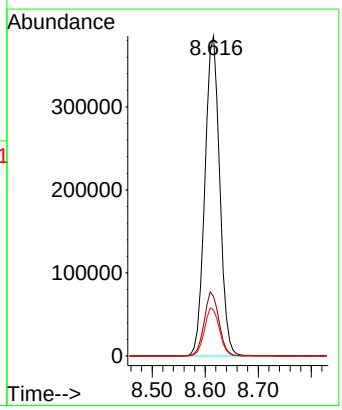


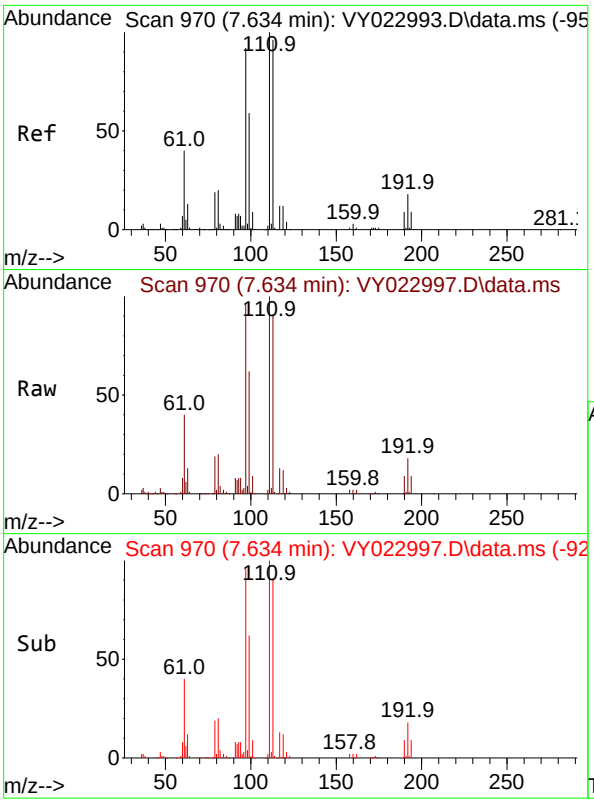


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:114 Resp: 746741

Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.8
88	14.4	0.0	30.2



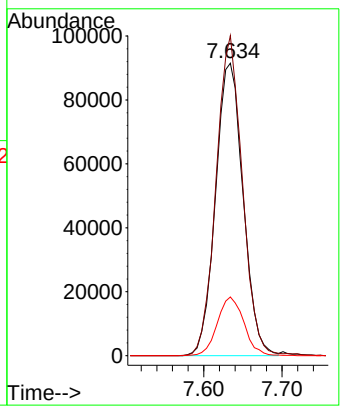


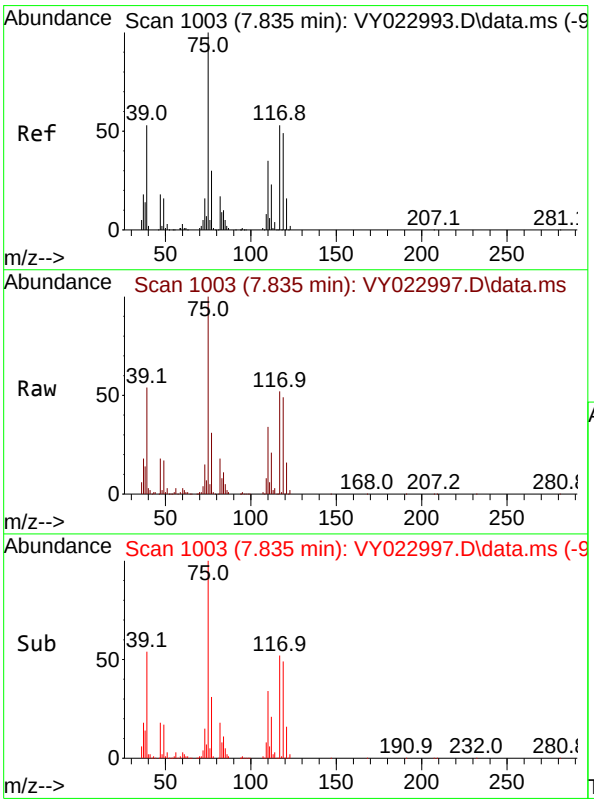
#35
Dibromofluoromethane
Concen: 47.188 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:113 Resp: 223521

Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.2	124.8
192	19.5	15.3	22.9

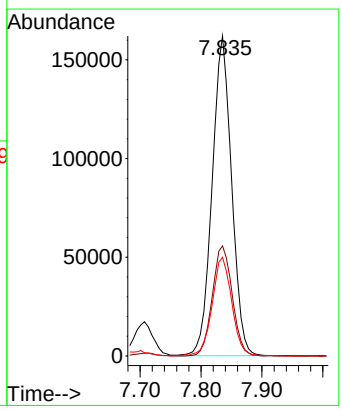


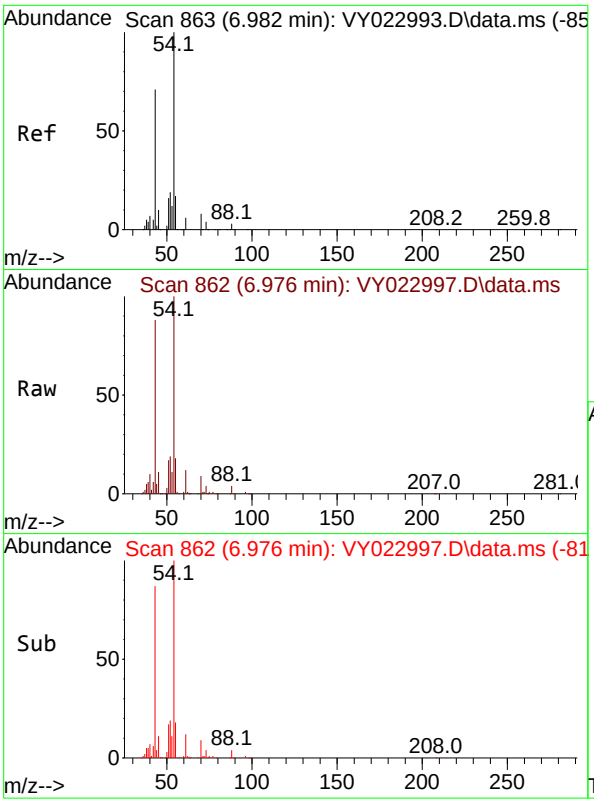


#36
1,1-Dichloropropene
Concen: 48.190 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 359563

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	30.8	24.6	37.0



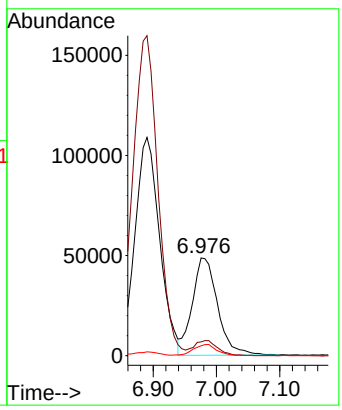


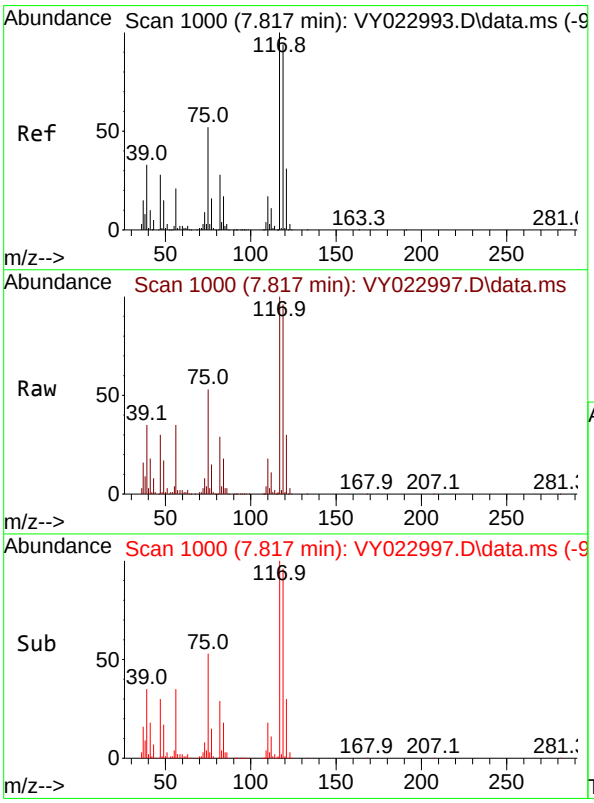
#37
Ethyl Acetate
Concen: 49.138 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 43 Resp: 136167

Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.6	17.4
70	10.8	8.5	12.7

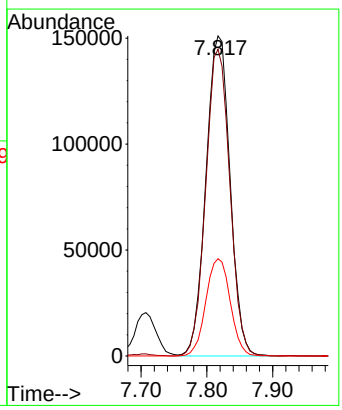


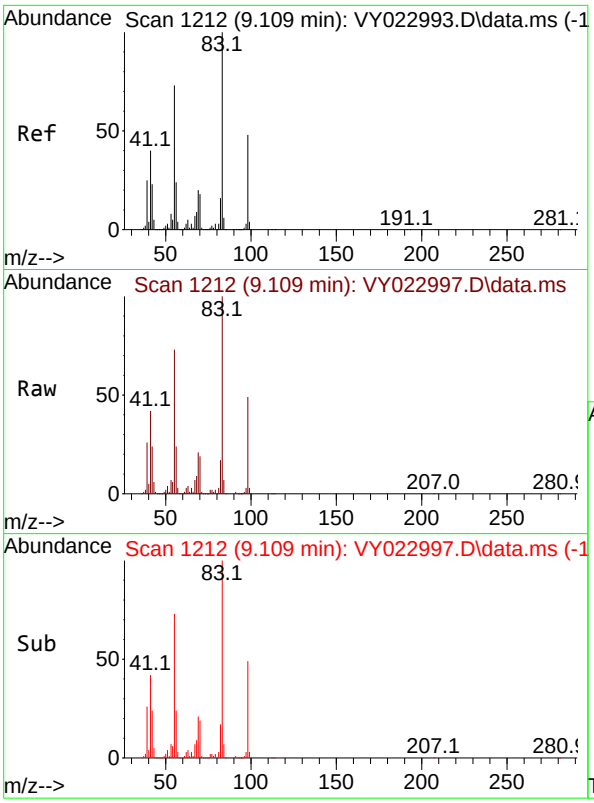


#38
Carbon Tetrachloride
Concen: 47.594 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:117 Resp: 385805

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.9	112.3
121	30.4	24.6	37.0



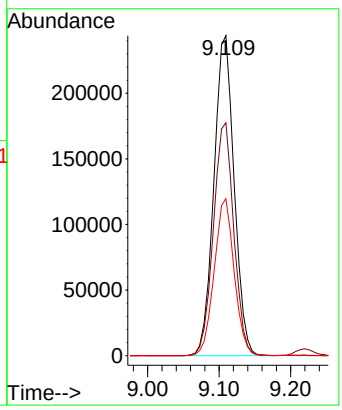


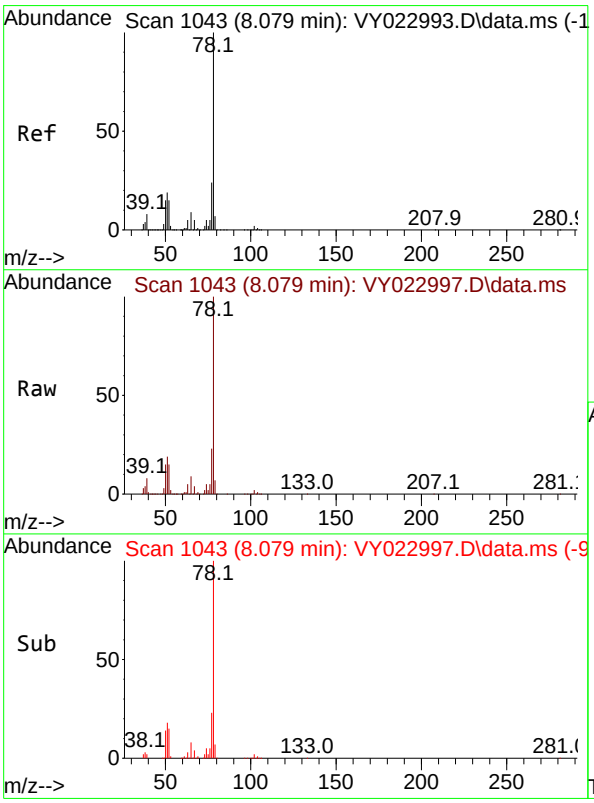
#39
Methylcyclohexane
Concen: 49.705 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 83 Resp: 480021

Ion	Ratio	Lower	Upper
83	100		
55	72.8	58.1	87.1
98	49.0	38.5	57.7

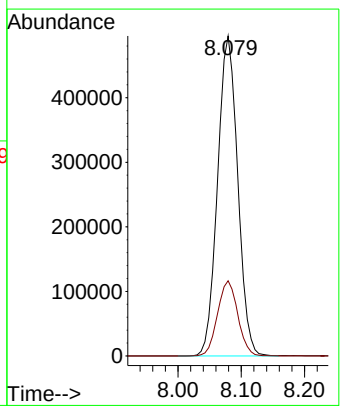


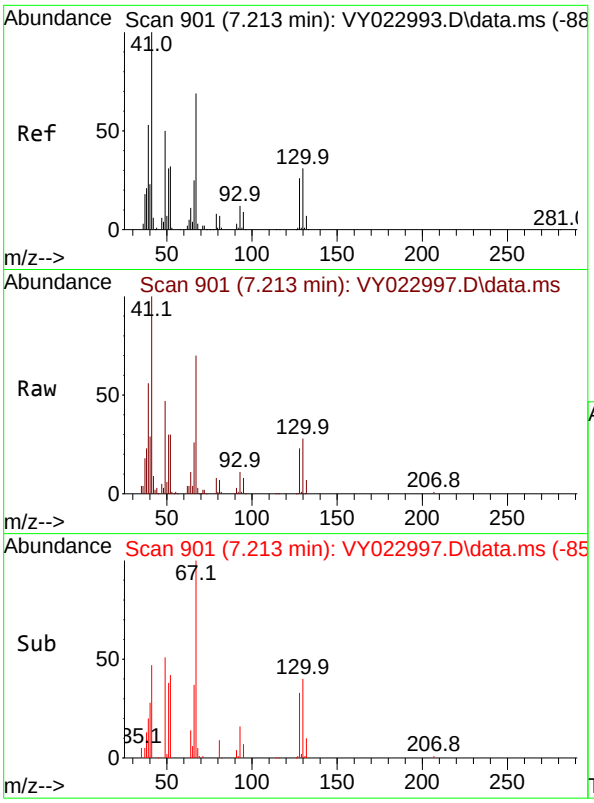


#40
Benzene
Concen: 48.756 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 78 Resp: 1095313

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4



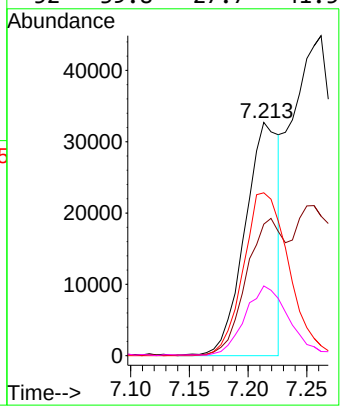


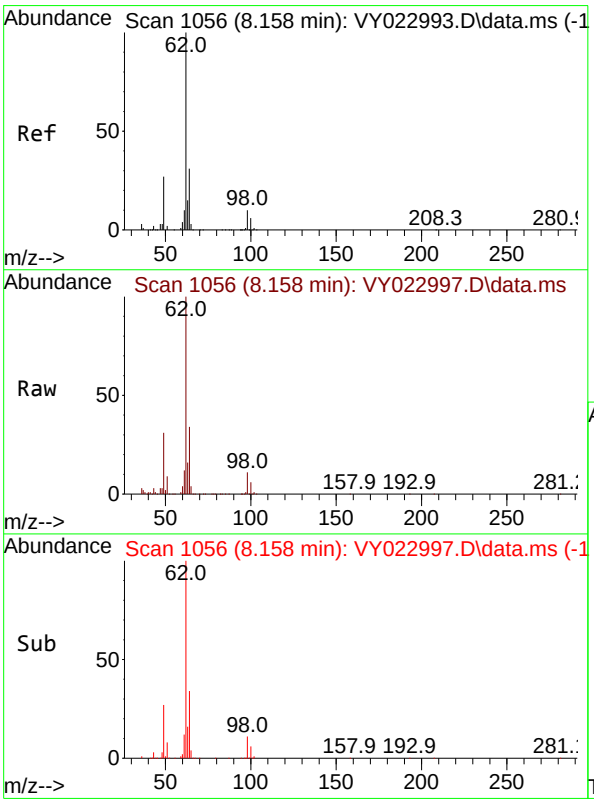
#41
Methacrylonitrile
Concen: 43.514 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 41 Resp: 65688

Ion	Ratio	Lower	Upper
41	100		
39	66.1	50.0	75.0
67	94.5	65.4	98.2
52	39.8	27.7	41.5

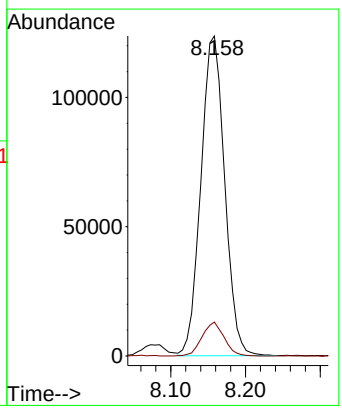


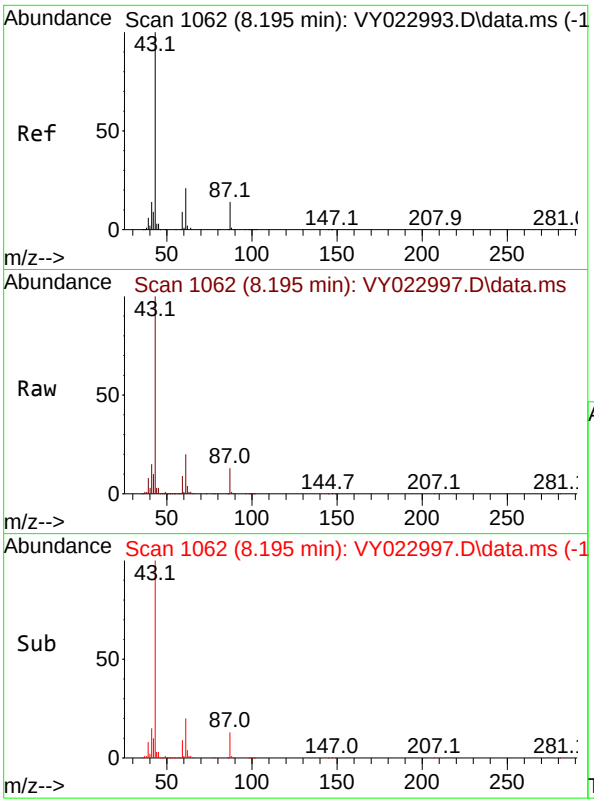


#42
1,2-Dichloroethane
Concen: 48.885 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 62 Resp: 273227

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0



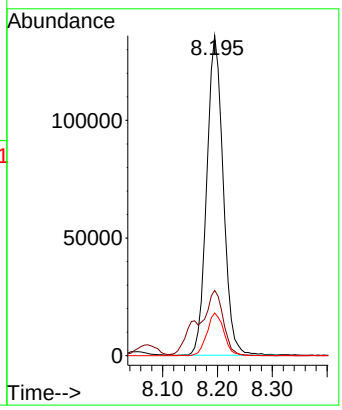


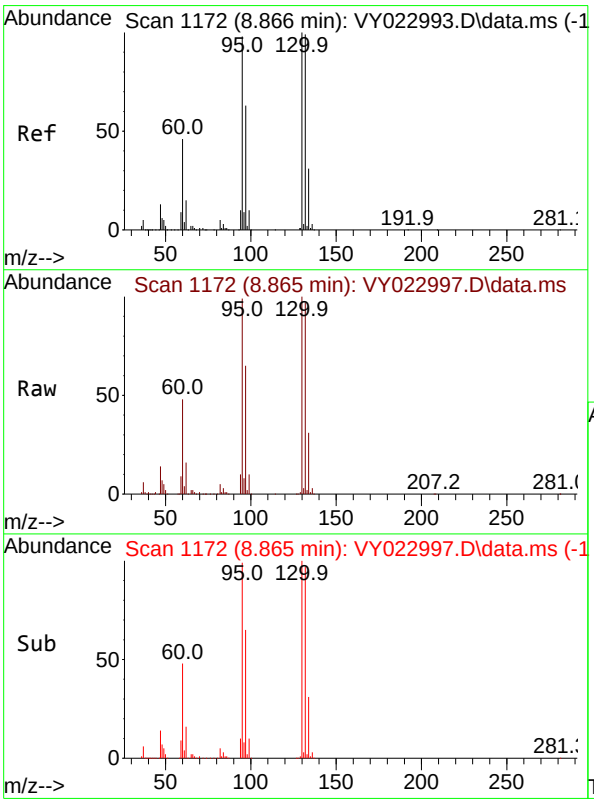
#43
Isopropyl Acetate
Concen: 51.356 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 43 Resp: 282687

Ion	Ratio	Lower	Upper
43	100		
61	20.6	25.0	37.4#
87	13.8	11.1	16.7

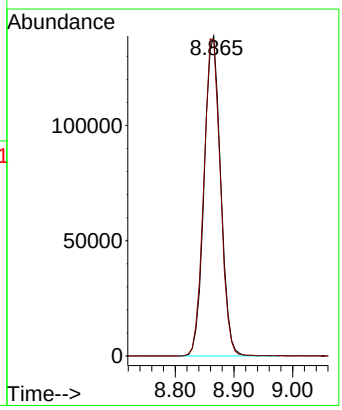


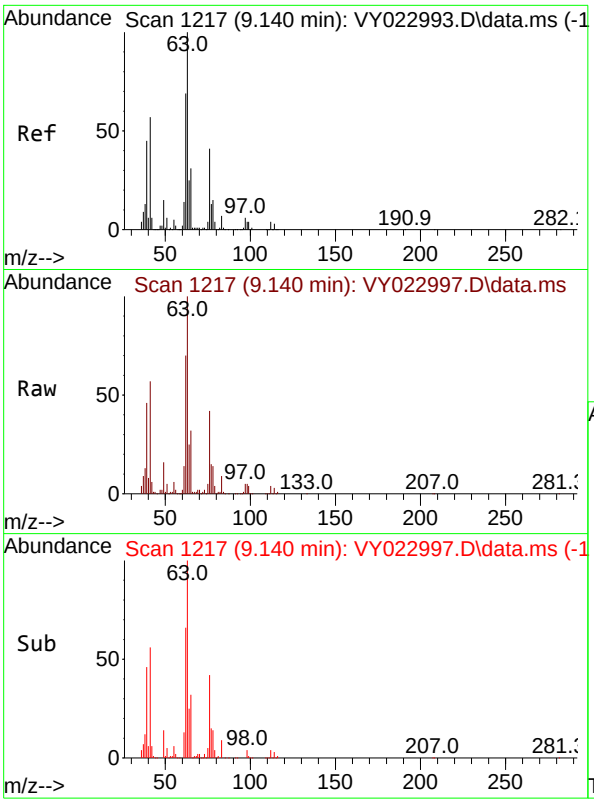


#44
Trichloroethene
Concen: 46.984 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:130 Resp: 271109

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	195.8



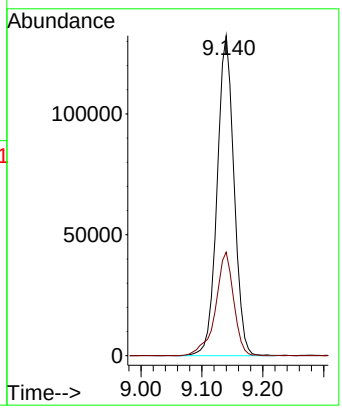


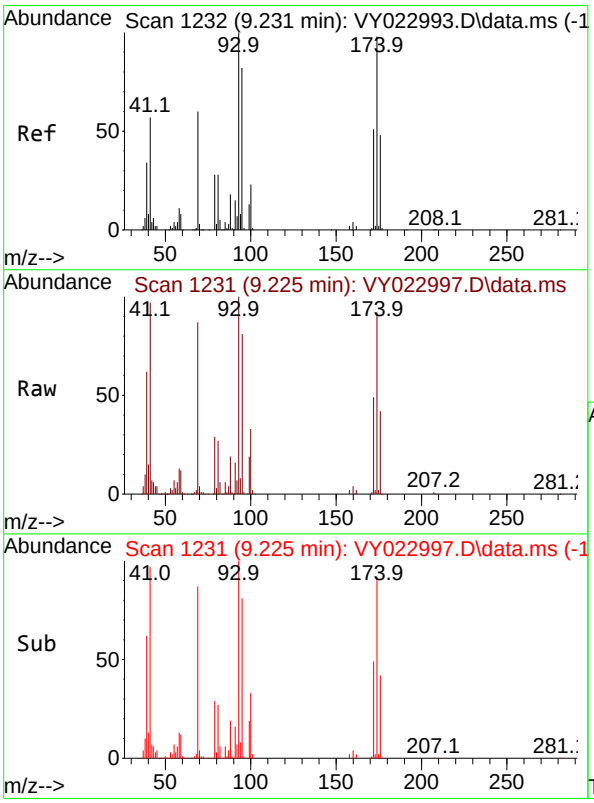
#45
1,2-Dichloropropane
Concen: 48.601 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 63 Resp: 254972

Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0

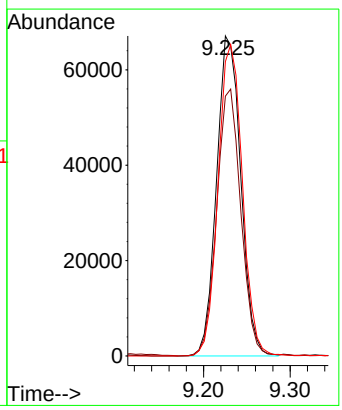


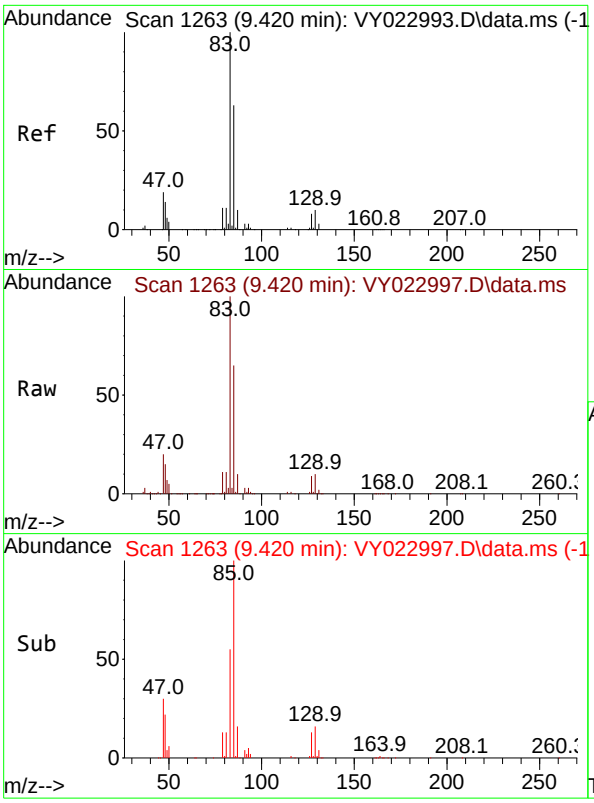


#46
Dibromomethane
Concen: 48.105 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 93 Resp: 130449

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.9	98.9
174	97.7	76.4	114.6



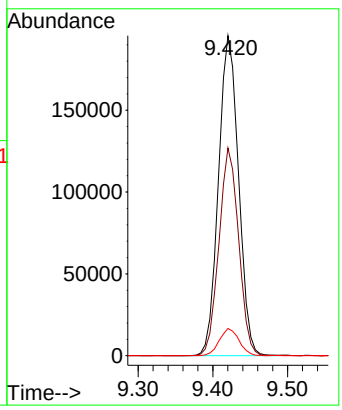


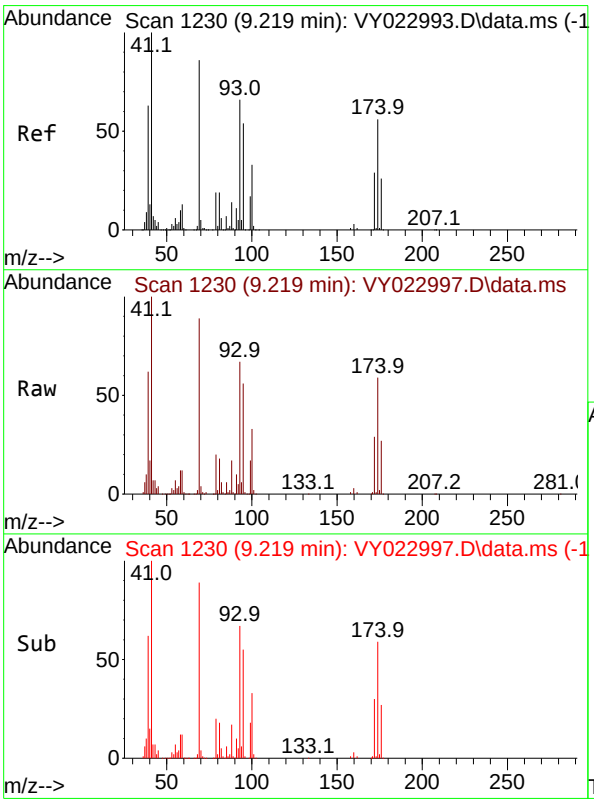
#47
Bromodichloromethane
Concen: 48.715 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 83 Resp: 365153

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.6	75.8
127	8.5	6.5	9.7

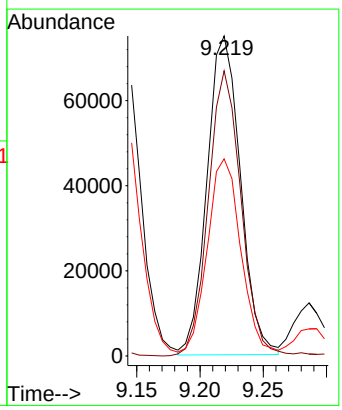


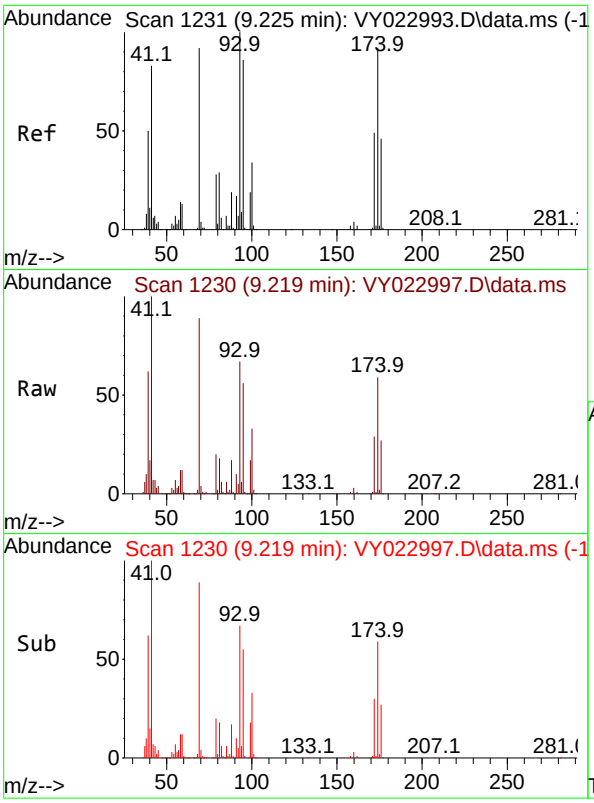


#48
Methyl methacrylate
Concen: 51.856 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 41 Resp: 137807

Ion	Ratio	Lower	Upper
41	100		
69	88.4	71.4	107.0
39	60.0	47.8	71.8



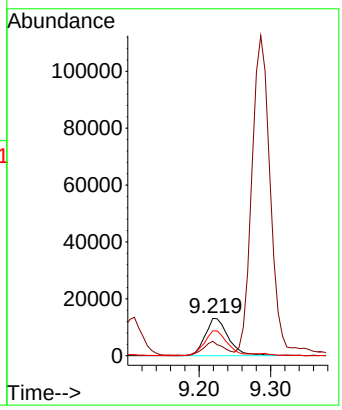


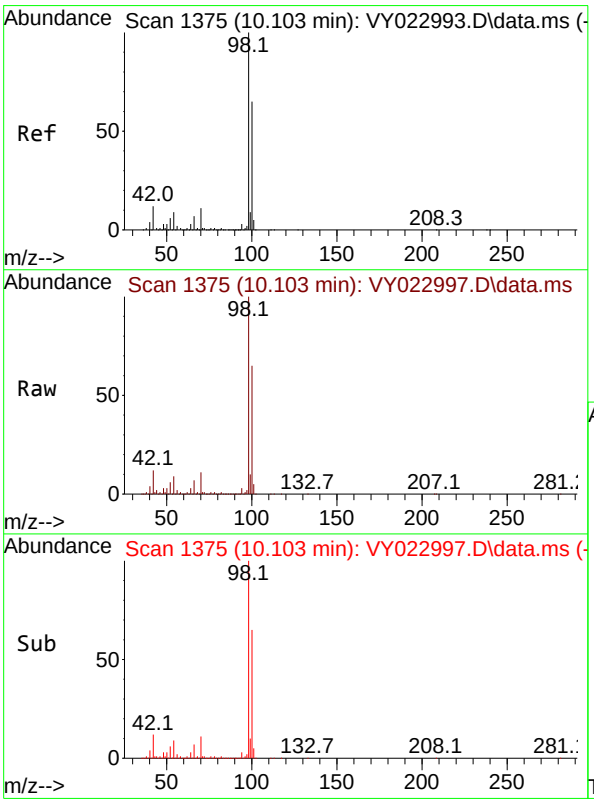
#49
1,4-Dioxane
Concen: 1039.077 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 88 Resp: 29701

Ion	Ratio	Lower	Upper
88	100		
43	32.3	28.7	43.1
58	64.9	59.8	89.6

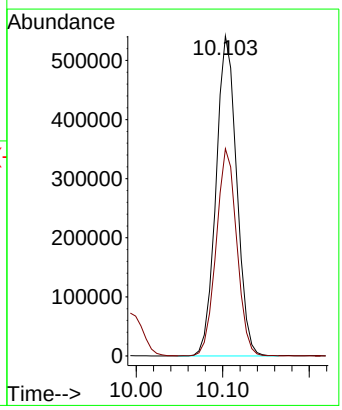


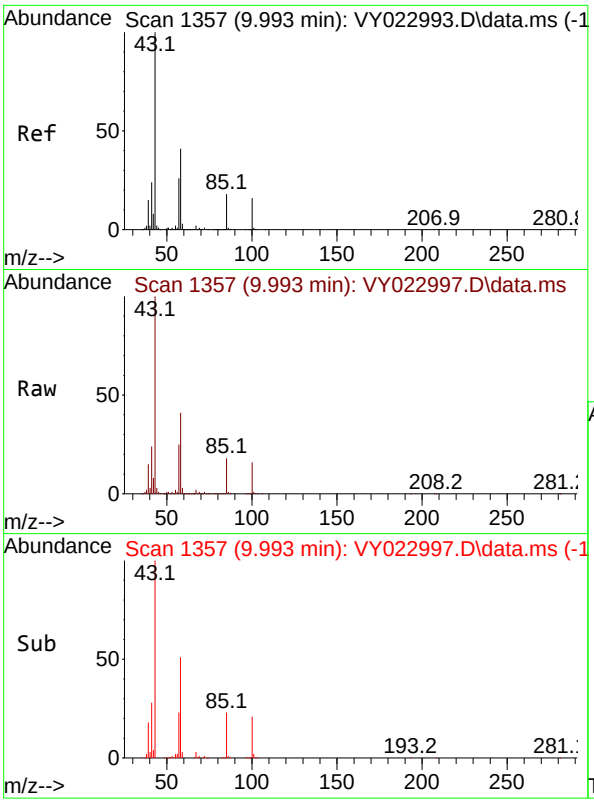


#50
Toluene-d8
Concen: 47.728 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 98 Resp: 896545

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.2



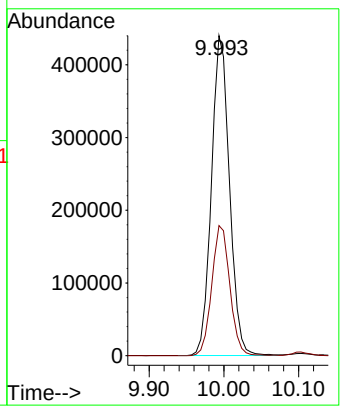


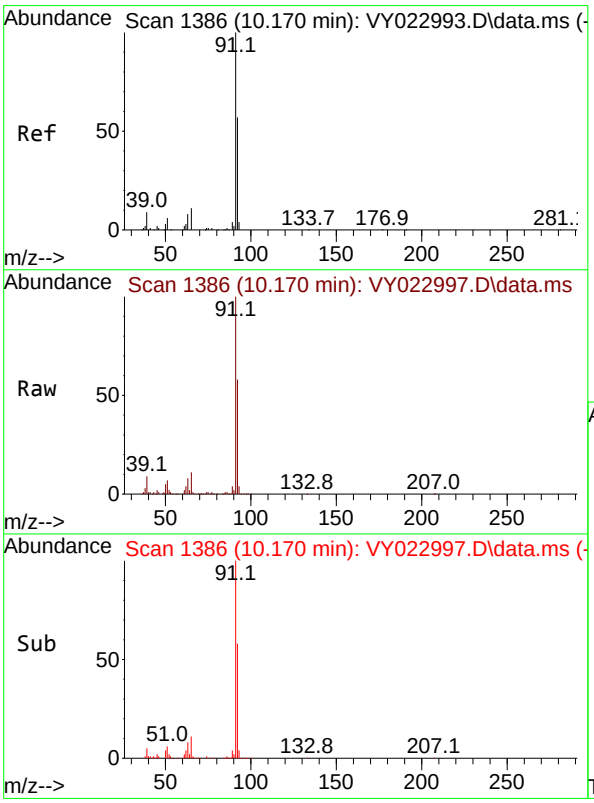
#51
4-Methyl-2-Pentanone
Concen: 263.650 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 43 Resp: 736605

Ion	Ratio	Lower	Upper
43	100		
58	40.9	32.5	48.7

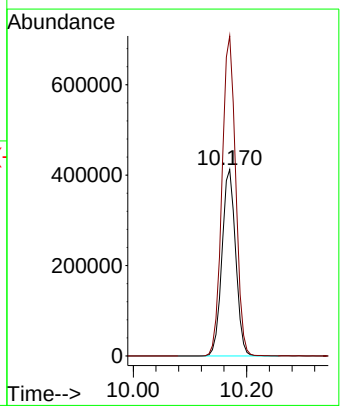


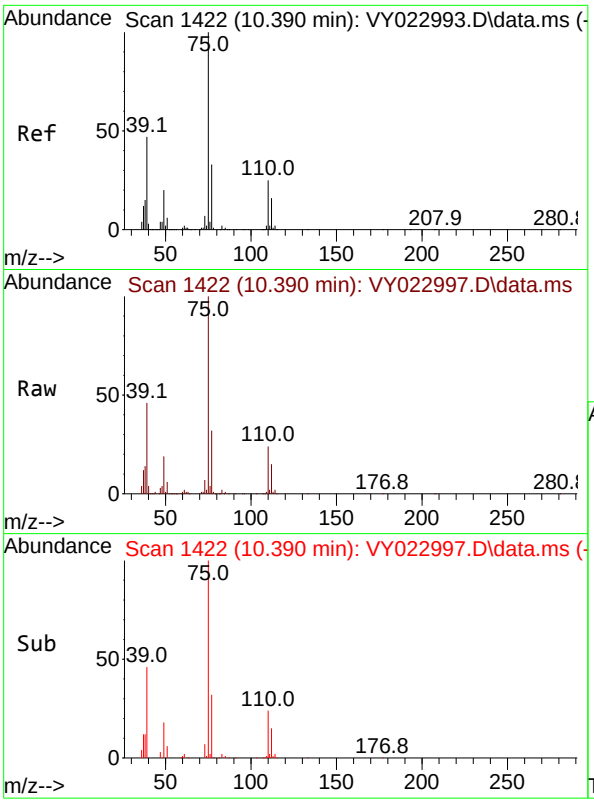


#52
Toluene
Concen: 49.377 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 92 Resp: 689665

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.8	206.6



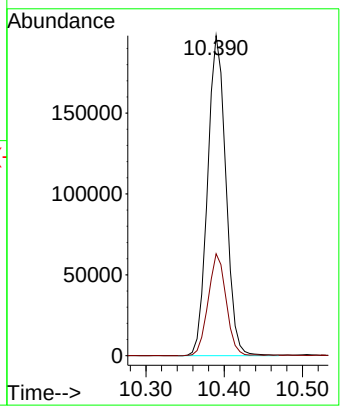


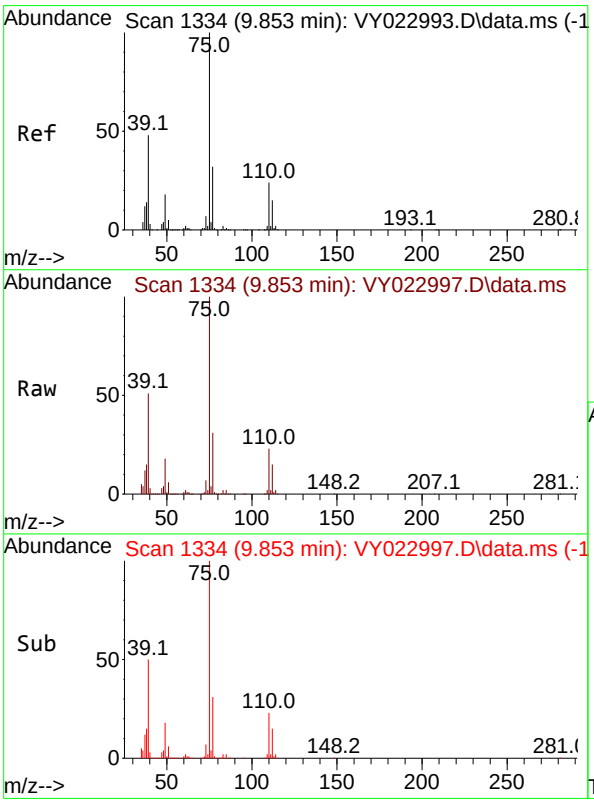
#53
t-1,3-Dichloropropene
Concen: 49.810 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 75 Resp: 320495

Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.4	39.6

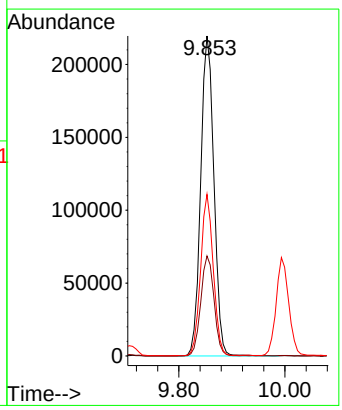


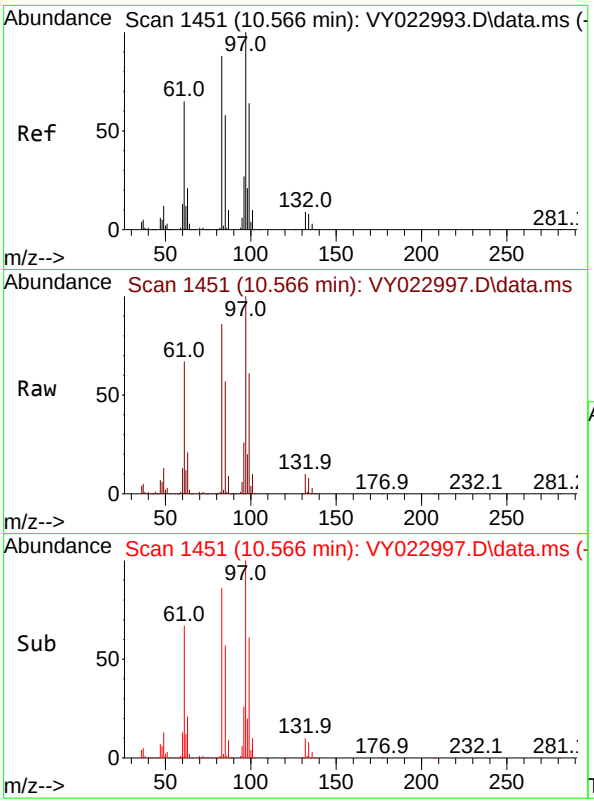


#54
cis-1,3-Dichloropropene
Concen: 48.953 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 379652

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	50.4	38.2	57.2



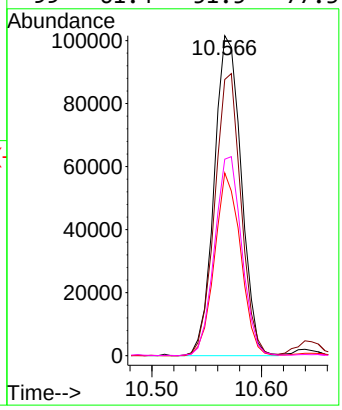


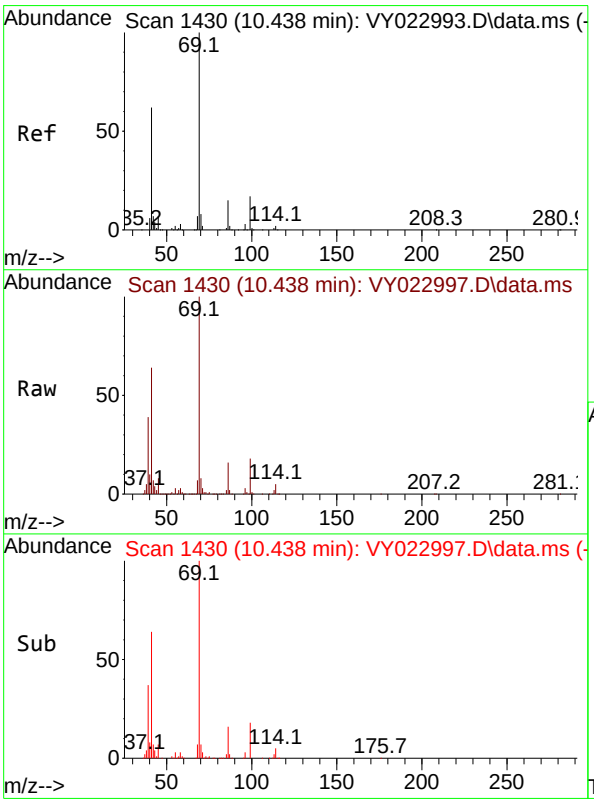
#55
1,1,2-Trichloroethane
Concen: 48.860 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 97 Resp: 174146

Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.2	105.2
85	57.1	46.2	69.2
99	61.4	51.5	77.3

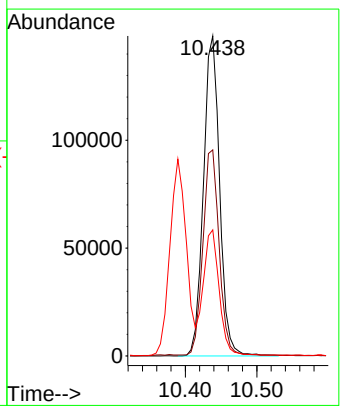


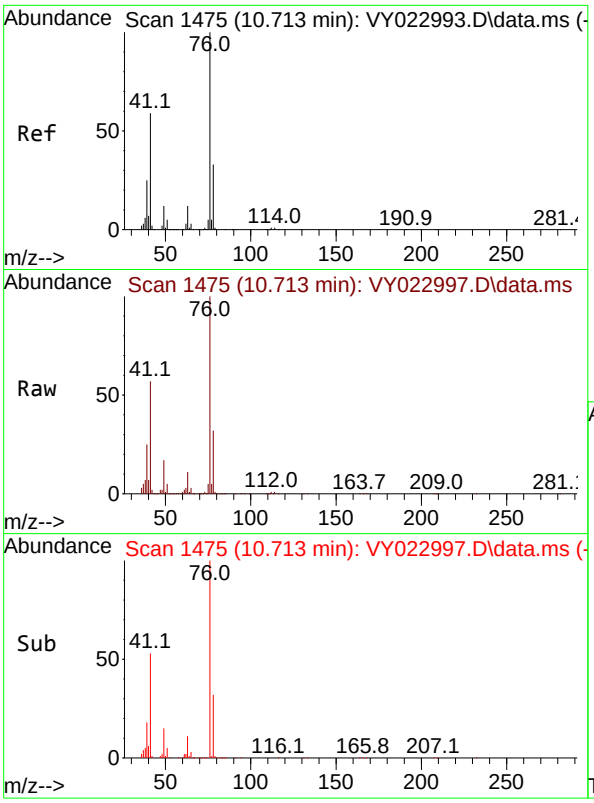


#56
Ethyl methacrylate
Concen: 52.383 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 69 Resp: 233062

Ion	Ratio	Lower	Upper
69	100		
41	64.6	51.0	76.4
39	38.6	30.6	46.0



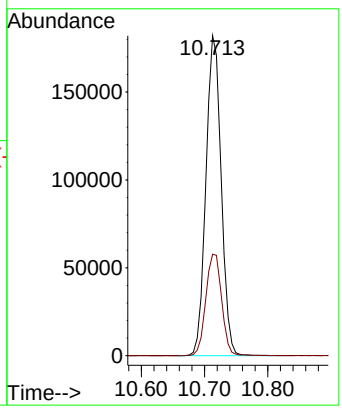


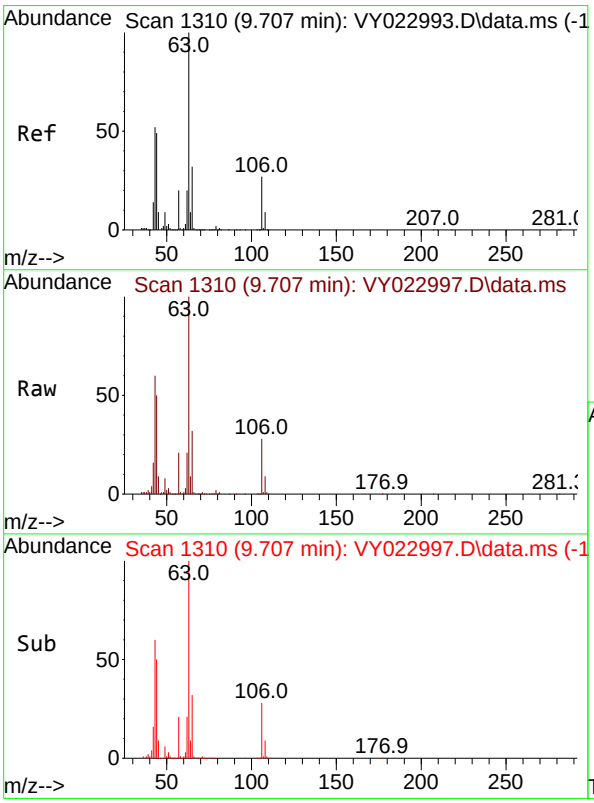
#57
1,3-Dichloropropane
Concen: 49.619 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 76 Resp: 305501

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.6	39.8

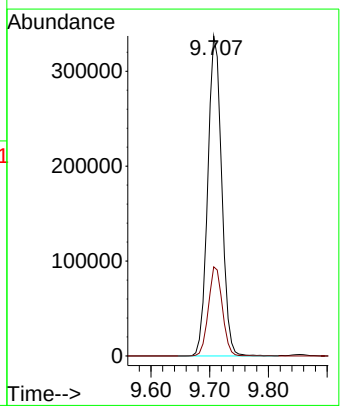


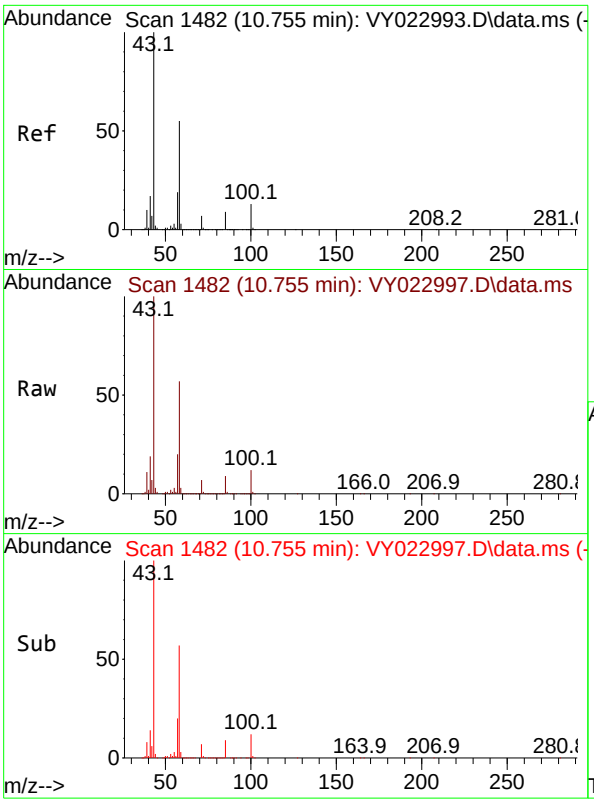


#58
2-Chloroethyl Vinyl ether
Concen: 255.234 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 63 Resp: 555885

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.6	33.8



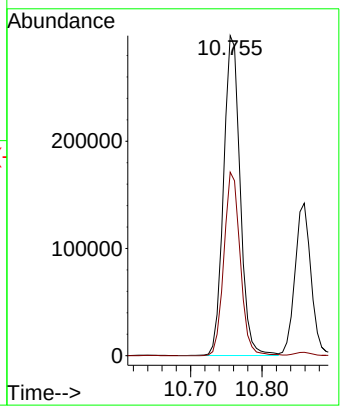


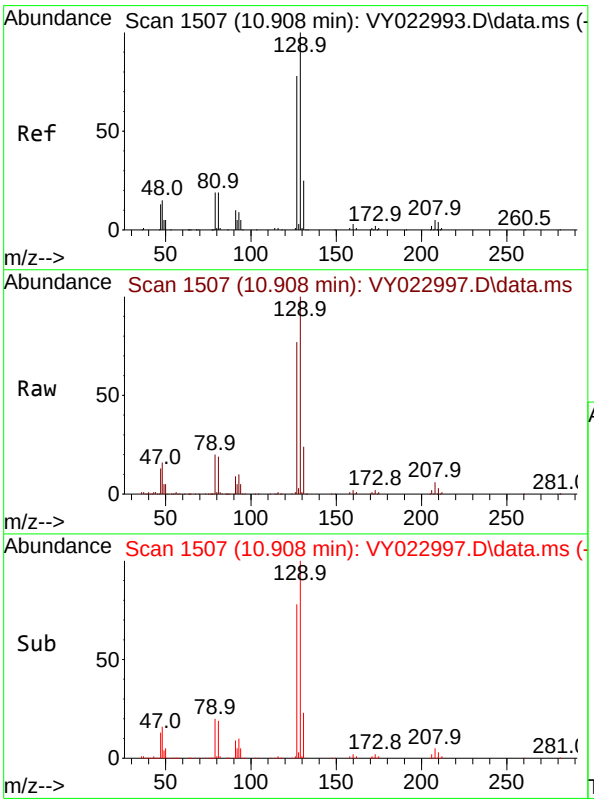
#59
2-Hexanone
Concen: 261.717 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 43 Resp: 480633

Ion	Ratio	Lower	Upper
43	100		
58	56.3	28.1	84.3

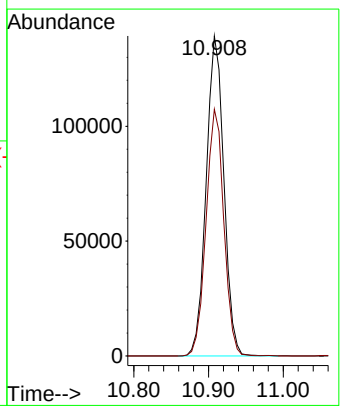


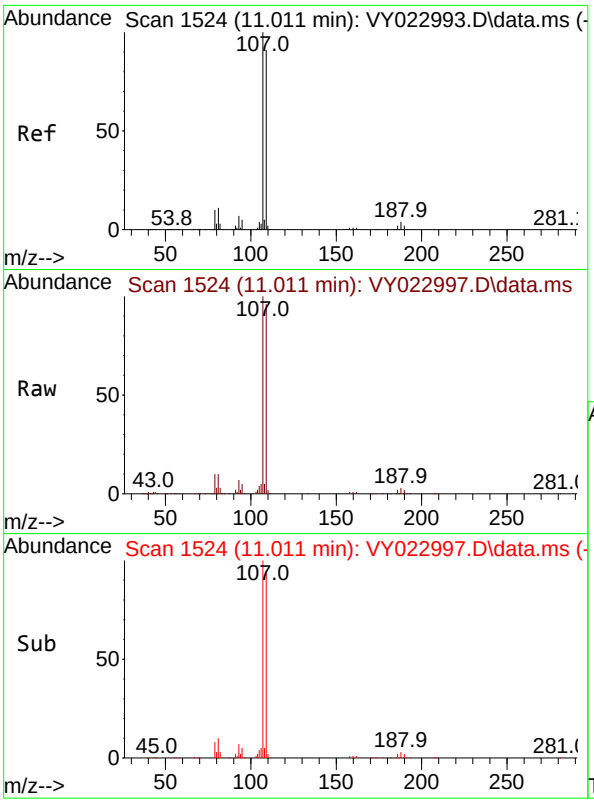


#60
Dibromochloromethane
Concen: 48.997 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:129 Resp: 228677

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.7	116.1



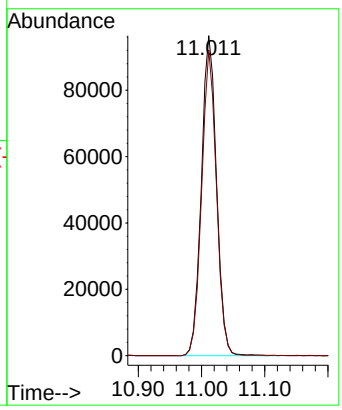


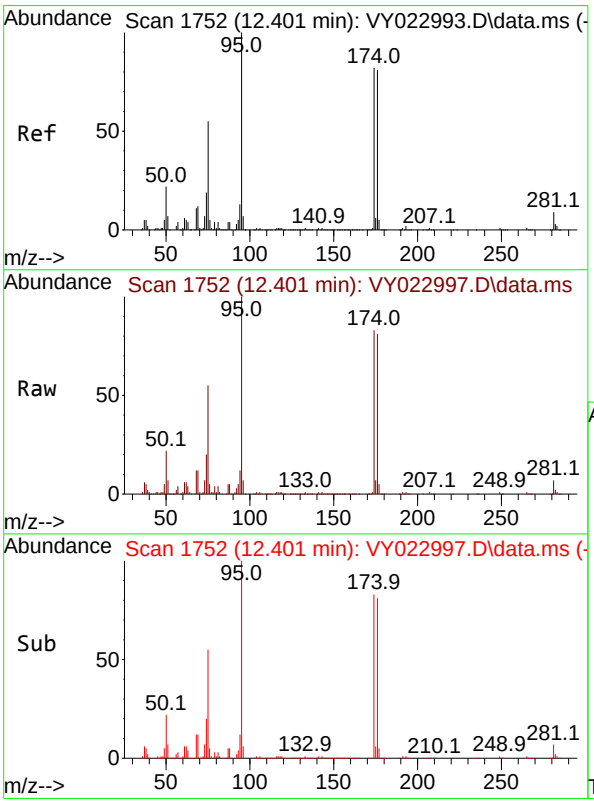
#61
1,2-Dibromoethane
Concen: 49.692 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:107 Resp: 160833

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.1	112.7

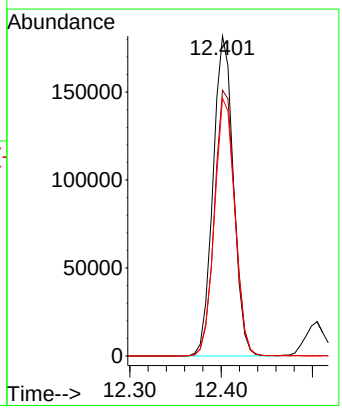


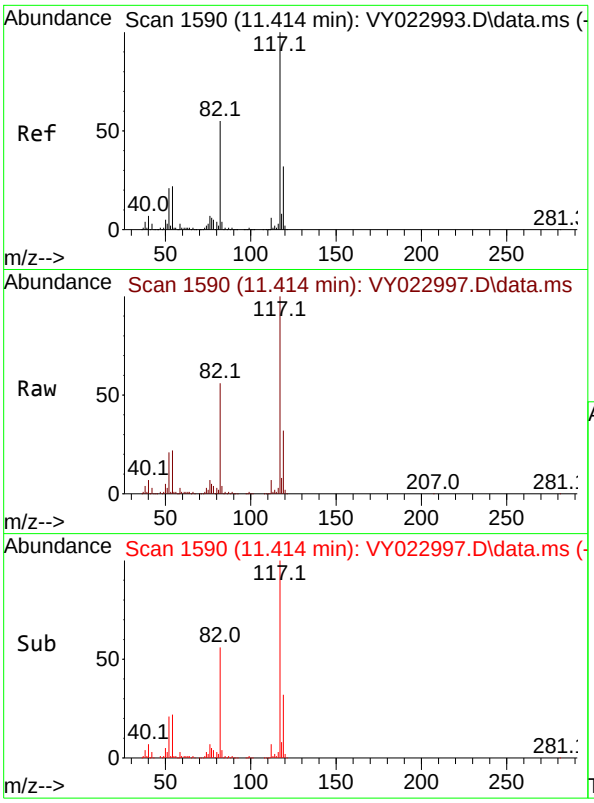


#62
4-Bromofluorobenzene
Concen: 47.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 95 Resp: 281129

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	170.8
176	80.9	0.0	163.6



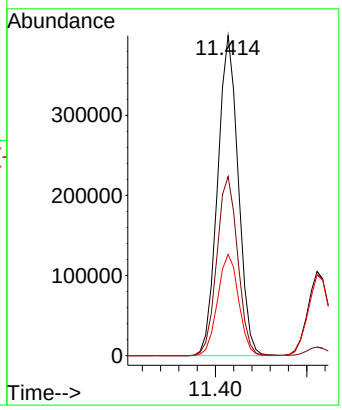


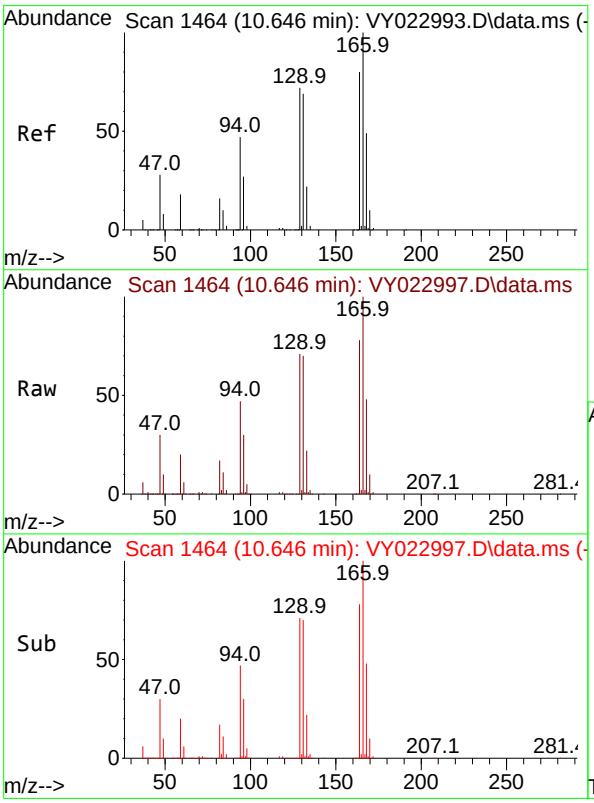
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:117 Resp: 626160

Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	31.7	25.8	38.8

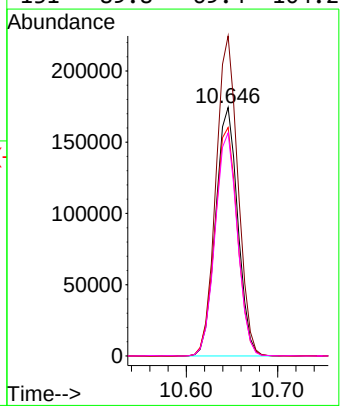


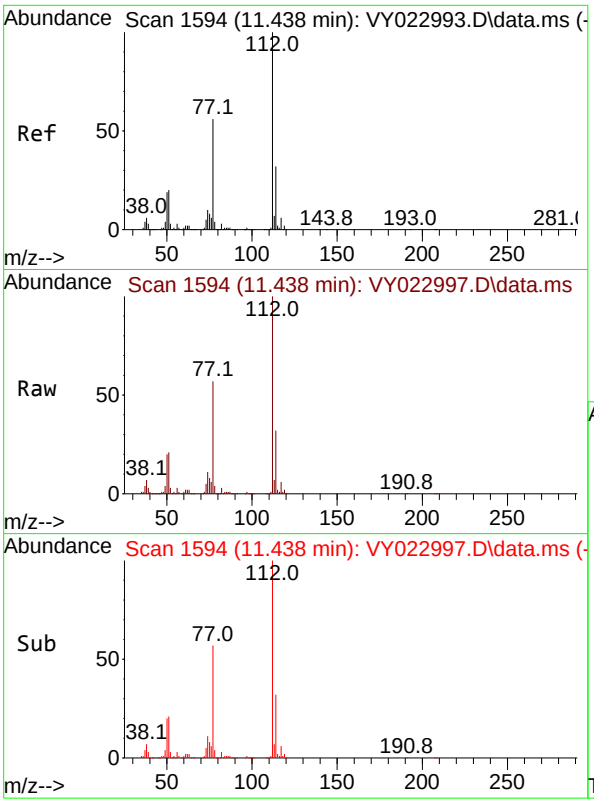


#64
Tetrachloroethene
Concen: 45.898 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:164 Resp: 293758

Ion	Ratio	Lower	Upper
164	100		
166	128.8	100.2	150.2
129	92.0	71.7	107.5
131	89.8	69.4	104.2



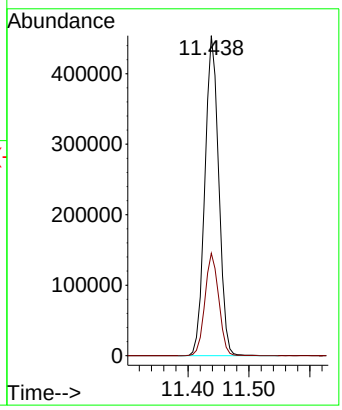


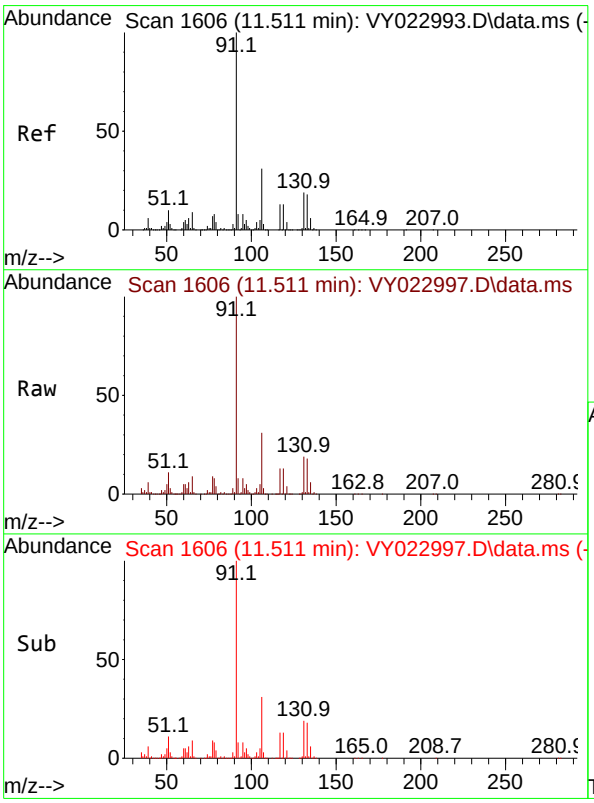
#65
Chlorobenzene
Concen: 48.547 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:112 Resp: 717316

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.4	38.2

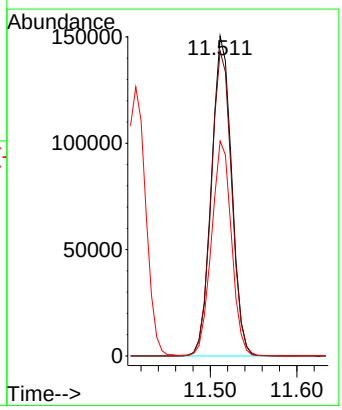


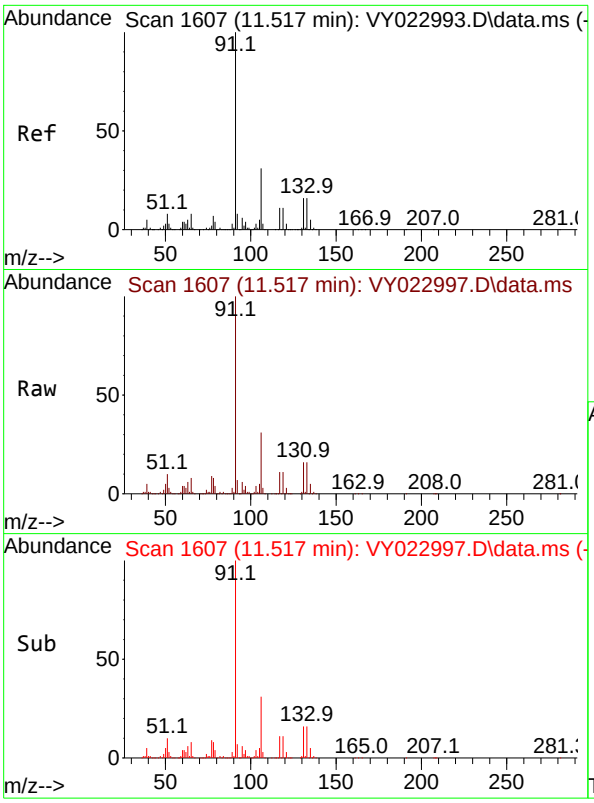


#66
1,1,1,2-Tetrachloroethane
Concen: 48.281 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:131 Resp: 243320

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.8	143.3
119	66.5	33.3	99.8



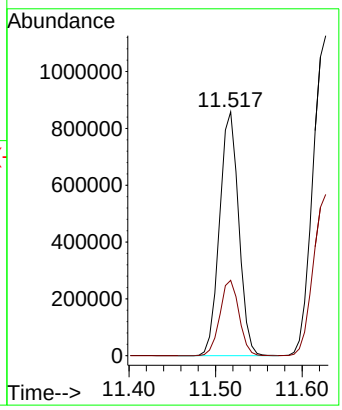


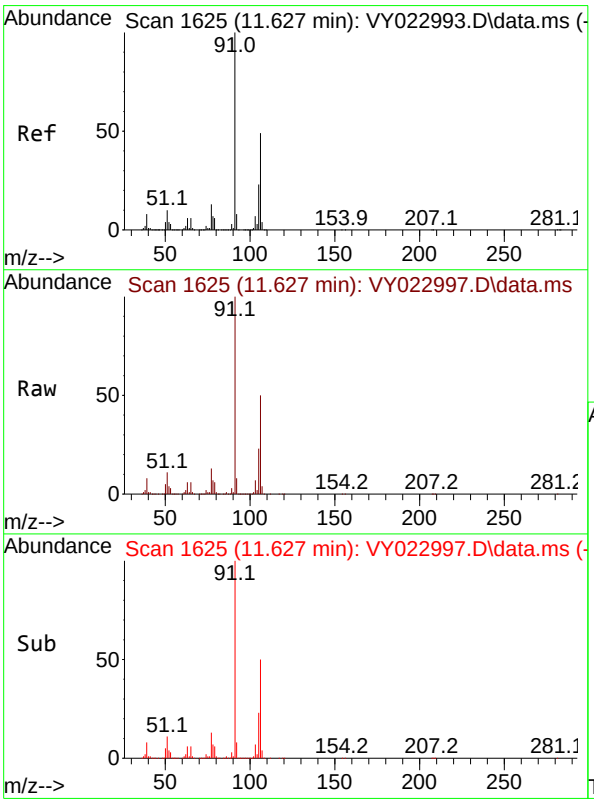
#67
Ethyl Benzene
Concen: 50.355 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 91 Resp: 1318781

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0

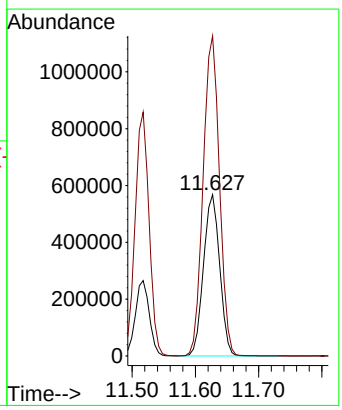


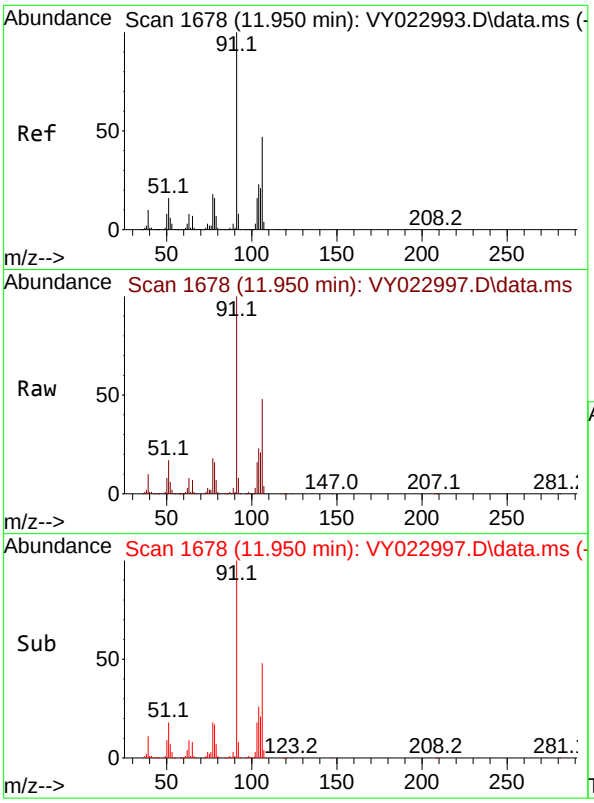


#68
m/p-Xylenes
Concen: 100.584 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:106 Resp: 1010405

Ion	Ratio	Lower	Upper
106	100		
91	199.9	159.8	239.8



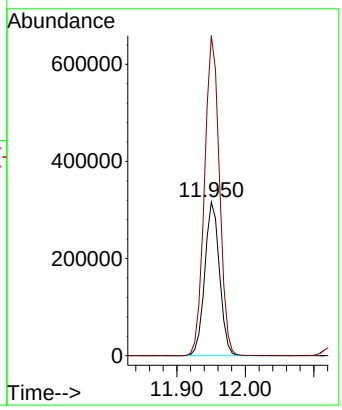


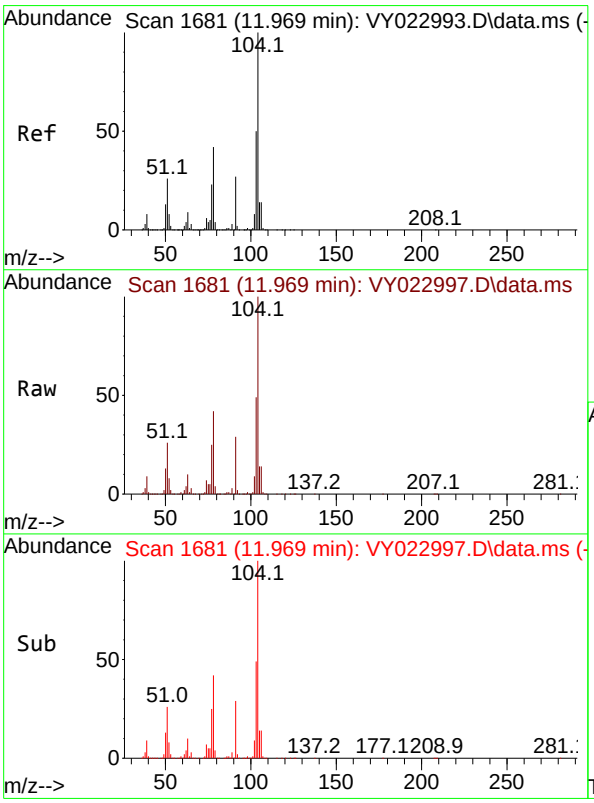
#69
o-Xylene
Concen: 50.815 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:106 Resp: 473728

Ion	Ratio	Lower	Upper
106	100		
91	210.9	106.3	318.8

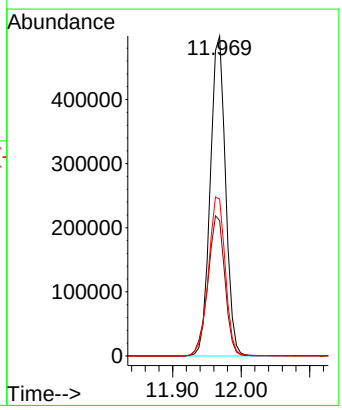


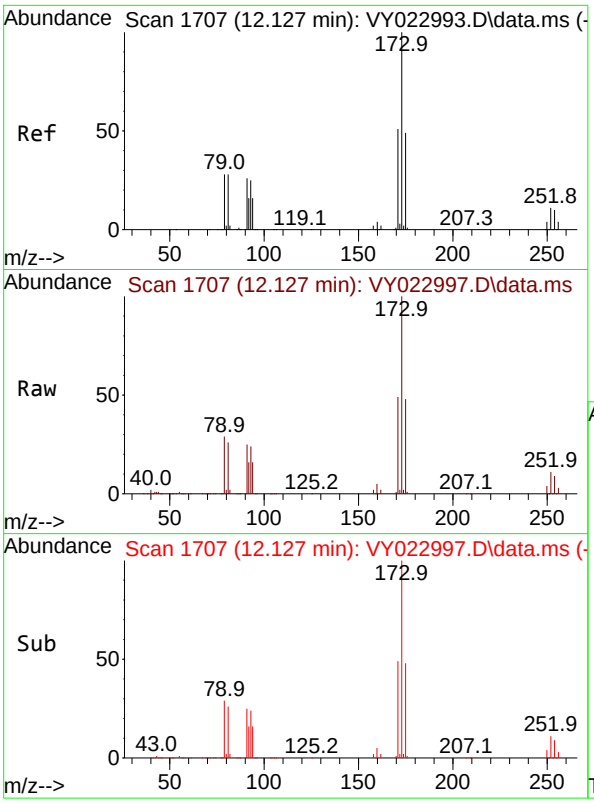


#70
Styrene
Concen: 50.903 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:104 Resp: 777326

Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.6
103	54.7	43.7	65.5



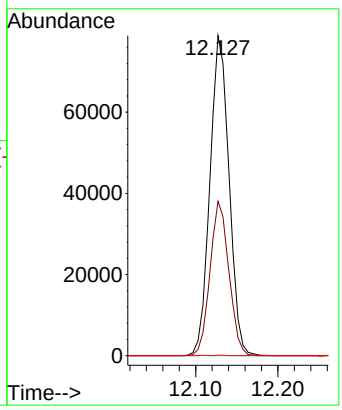


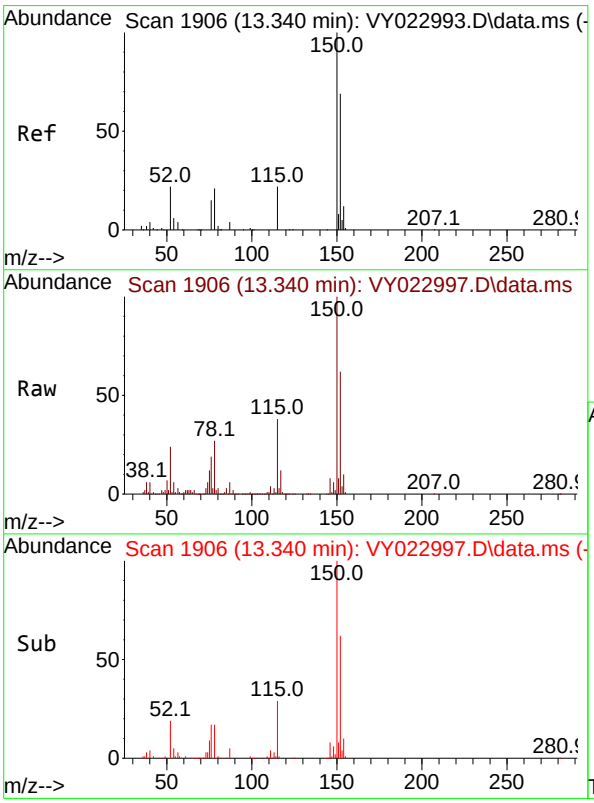
#71
Bromoform
Concen: 49.825 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:173 Resp: 127473

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.8
254	0.1	0.2	0.2#

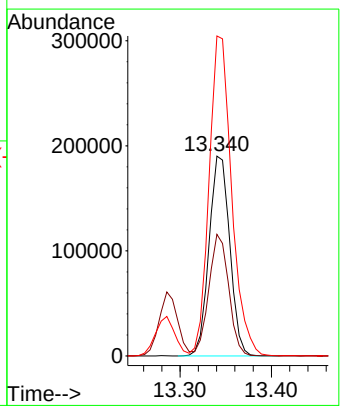


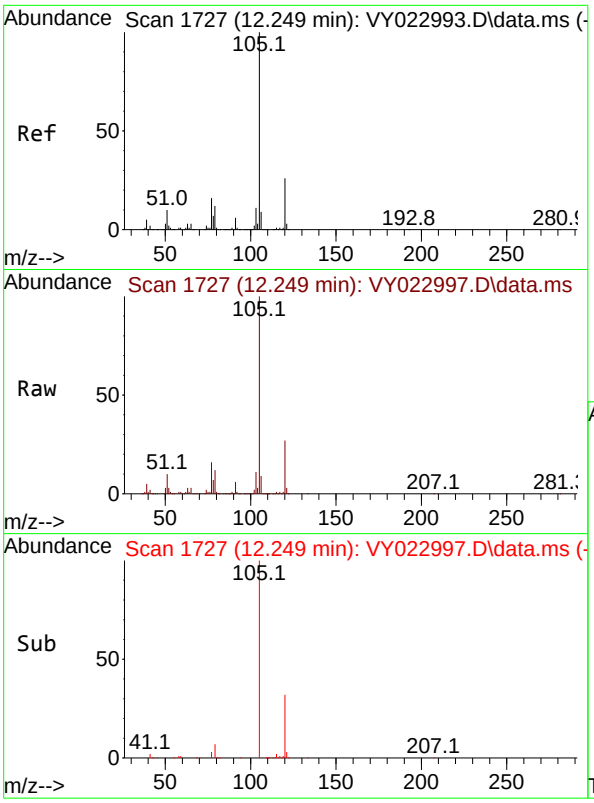


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:152 Resp: 299370

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	174.3	0.0	350.0



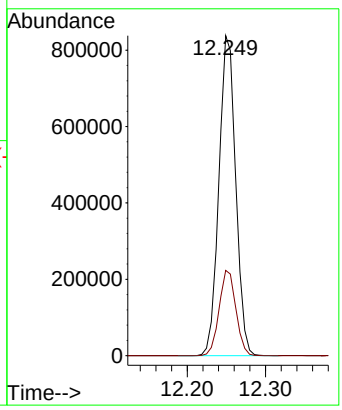


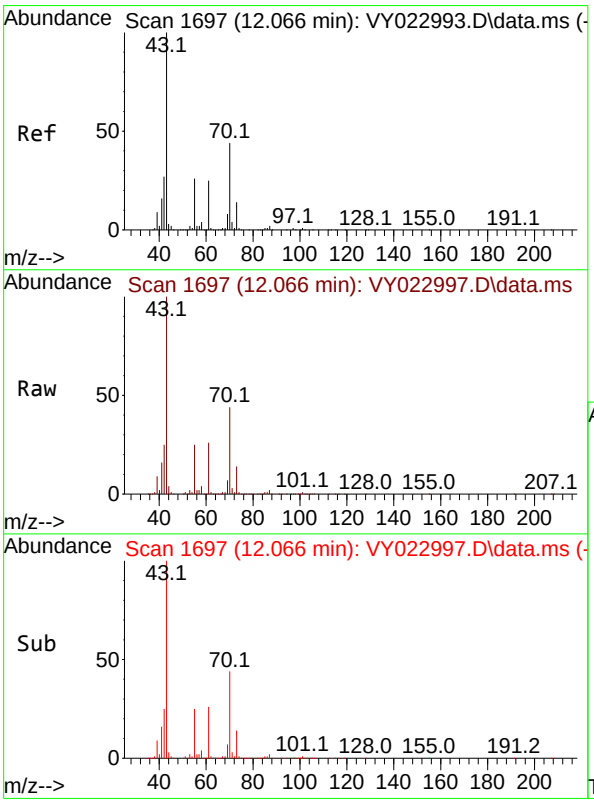
#73
Isopropylbenzene
Concen: 49.302 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:105 Resp: 1251340

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6

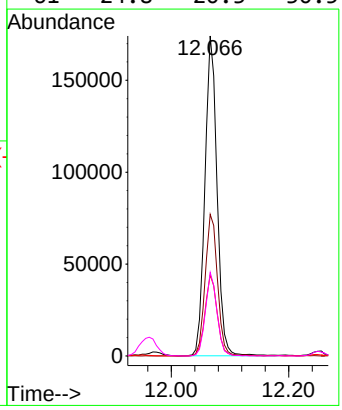


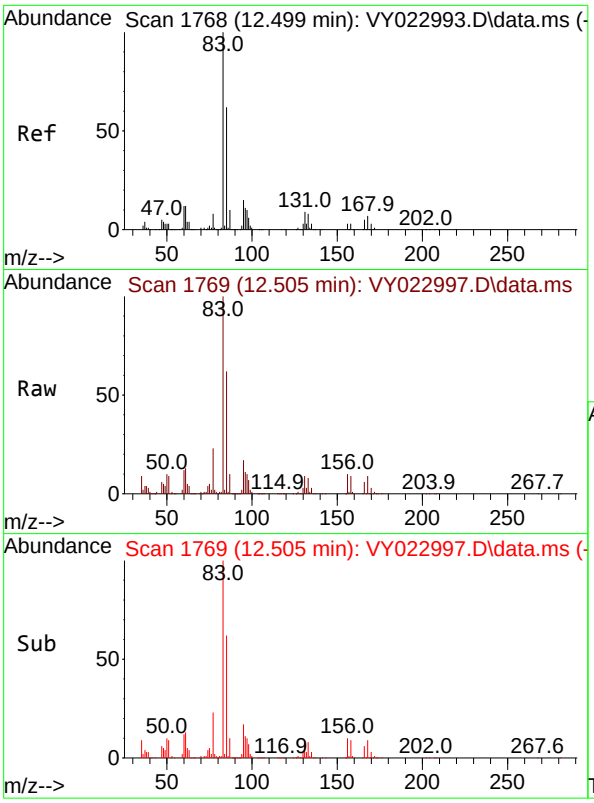


#74
N-amyl acetate
Concen: 52.247 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 43 Resp: 250015

Ion	Ratio	Lower	Upper
43	100		
70	45.1	36.2	54.2
55	25.3	20.9	31.3
61	24.8	20.3	30.5



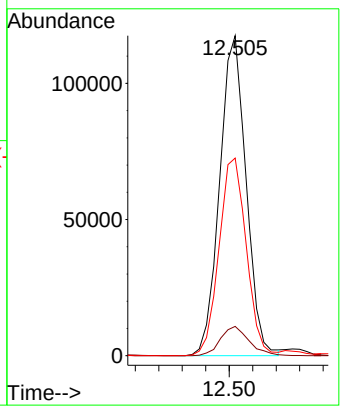


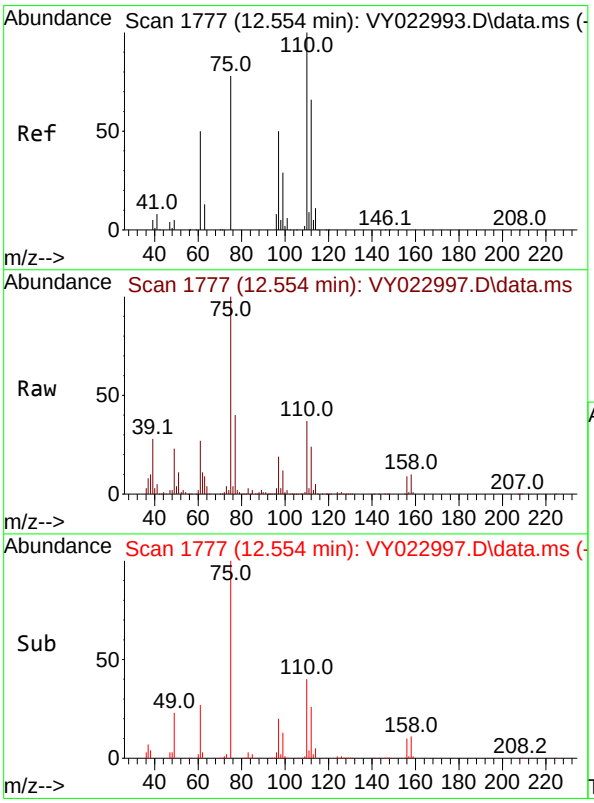
#75
1,1,2,2-Tetrachloroethane
Concen: 49.985 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 83 Resp: 183595

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.7	31.9	95.7

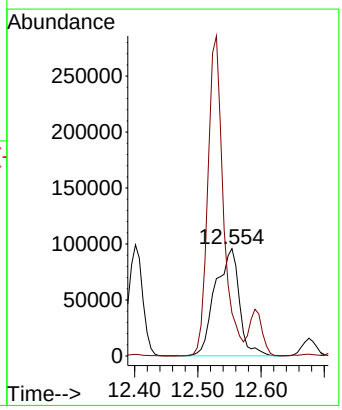


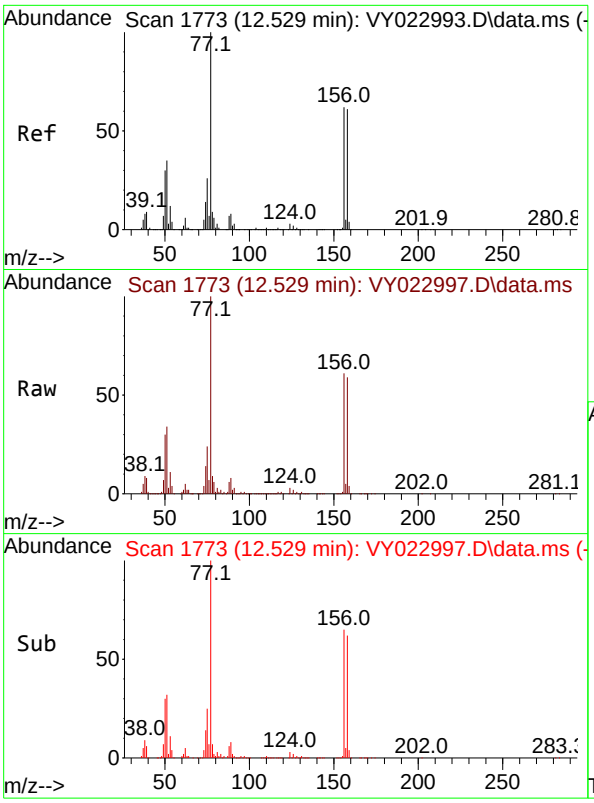


#76
1,2,3-Trichloropropane
Concen: 67.812 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 252964

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



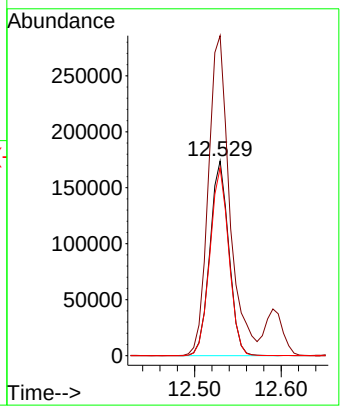


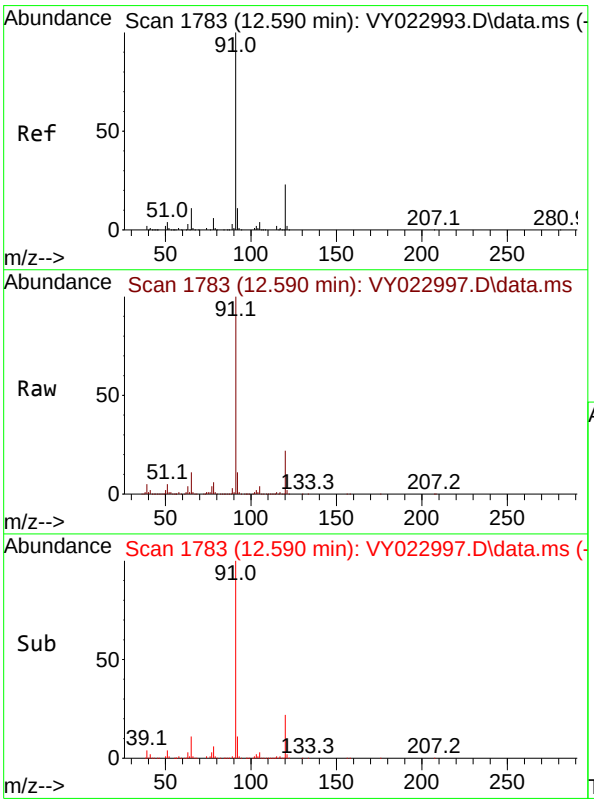
#77
Bromobenzene
Concen: 48.030 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:156 Resp: 264397

Ion	Ratio	Lower	Upper
156	100		
77	185.1	92.0	276.1
158	96.4	48.6	145.9

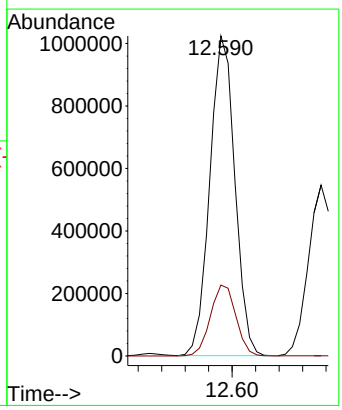


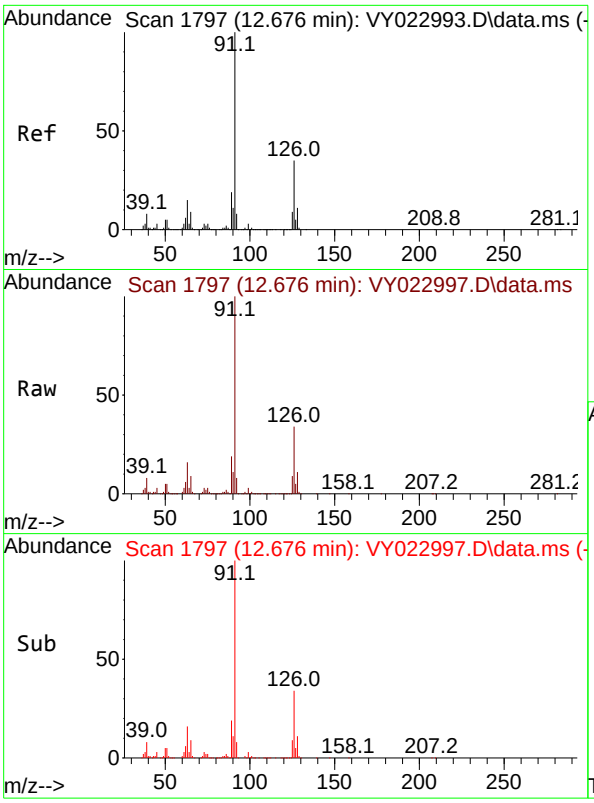


#78
n-propylbenzene
Concen: 50.062 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 91 Resp: 1513140

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.8



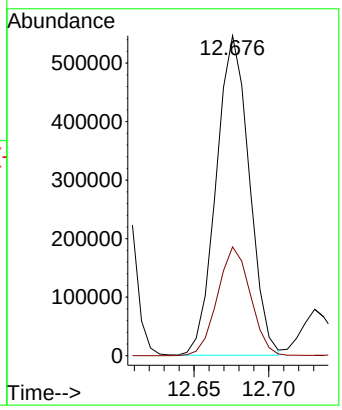


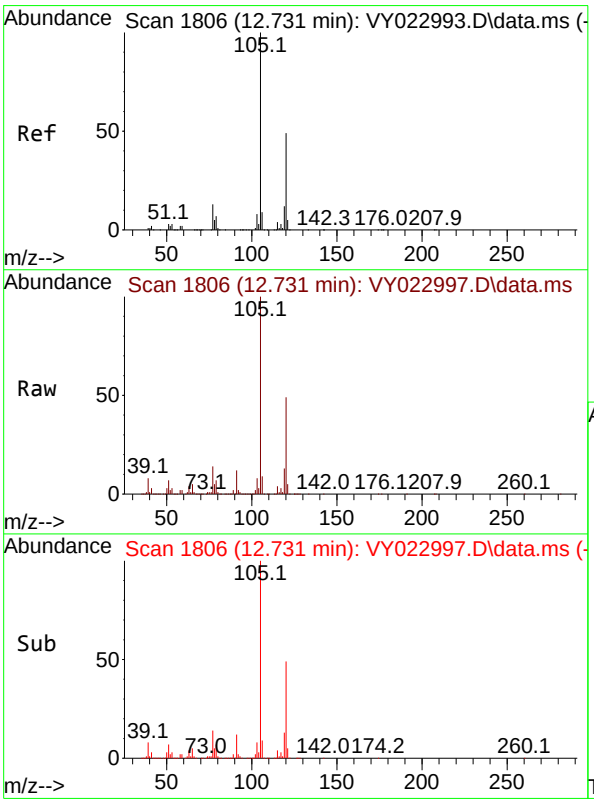
#79
2-Chlorotoluene
Concen: 49.359 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 91 Resp: 839059

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	50.9

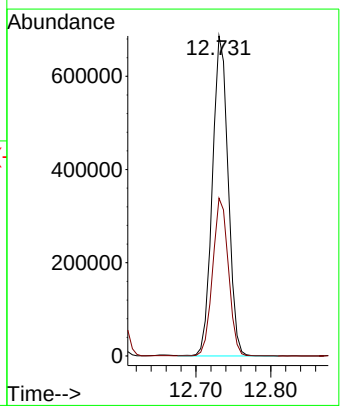


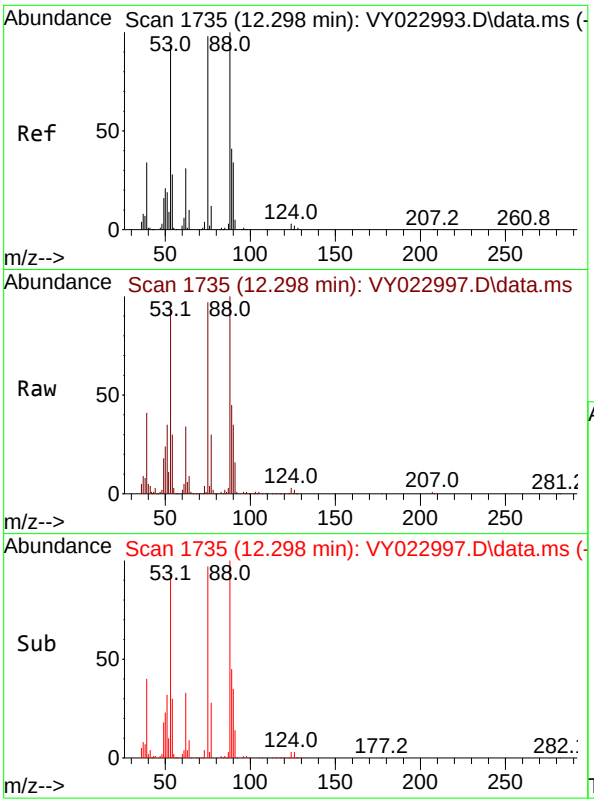


#80
1,3,5-Trimethylbenzene
Concen: 50.127 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:105 Resp: 1003448

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.6	73.8



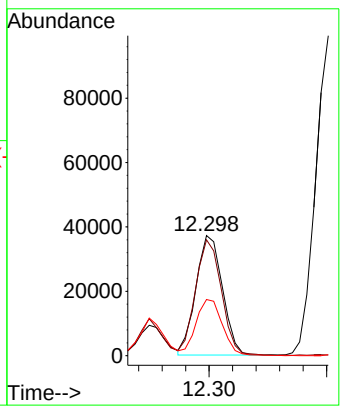


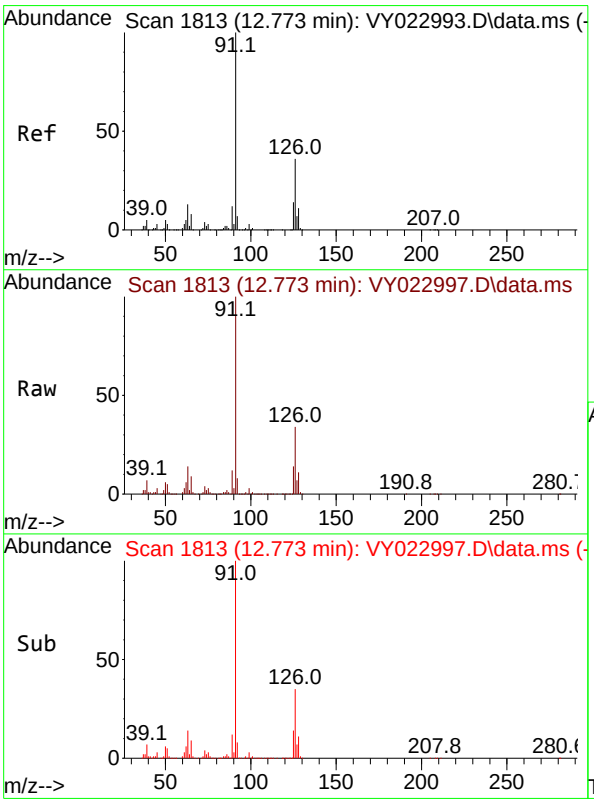
#81
trans-1,4-Dichloro-2-butene
Concen: 46.452 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 75 Resp: 58179

Ion	Ratio	Lower	Upper
75	100		
53	94.8	76.1	114.1
89	47.5	36.1	54.1

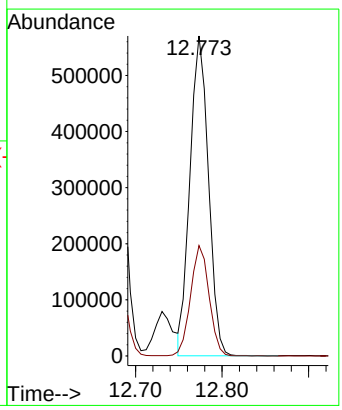


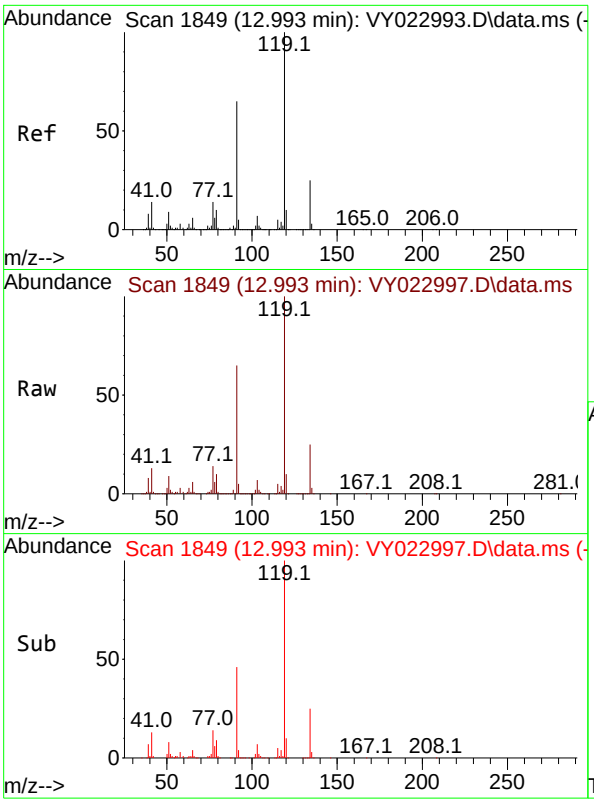


#82
4-Chlorotoluene
Concen: 49.261 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 91 Resp: 844578

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.2	51.5



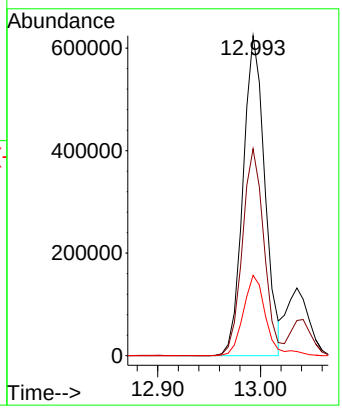


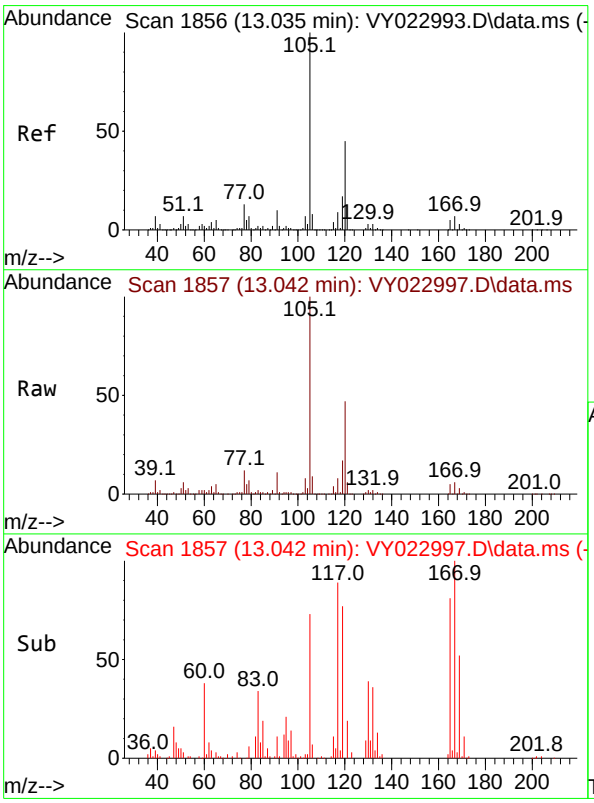
#83
tert-Butylbenzene
Concen: 50.676 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:119 Resp: 916326

Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.0	96.2
134	26.1	12.6	37.6

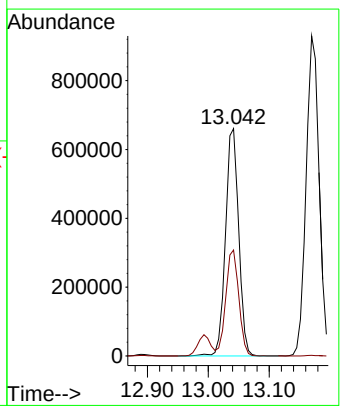


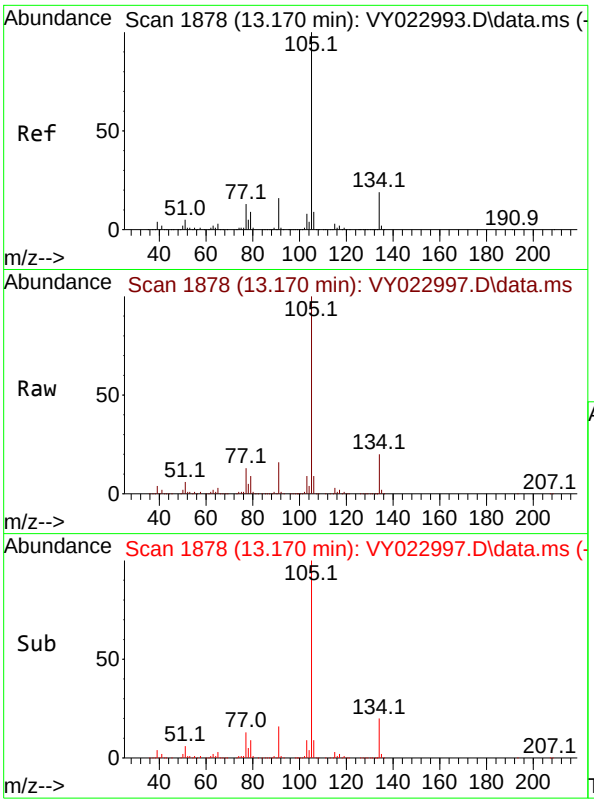


#84
1,2,4-Trimethylbenzene
Concen: 50.349 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:105 Resp: 992142

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.8



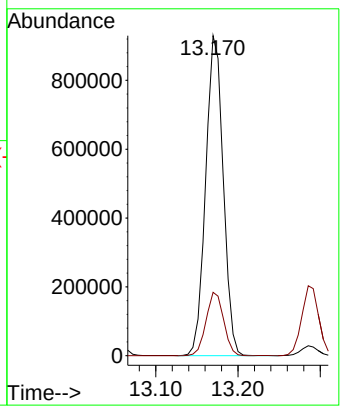


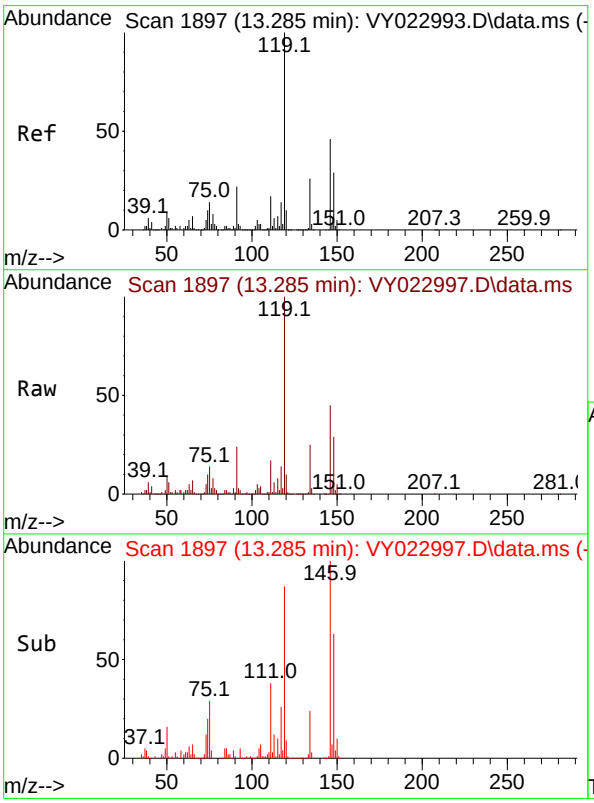
#85
sec-Butylbenzene
Concen: 50.832 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:105 Resp: 1377425

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

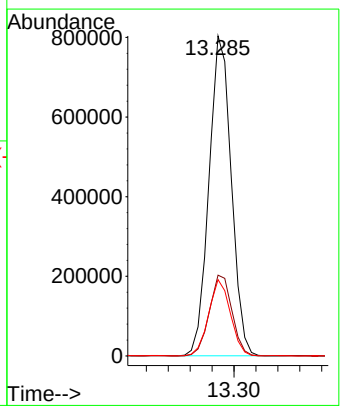


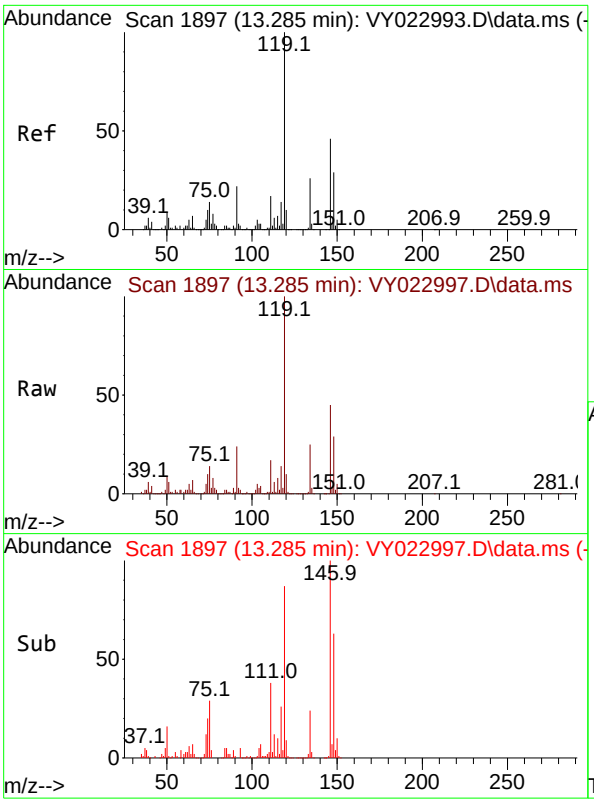


#86
p-Isopropyltoluene
Concen: 51.605 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:119 Resp: 1135708

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.1	39.1
91	23.2	11.4	34.1



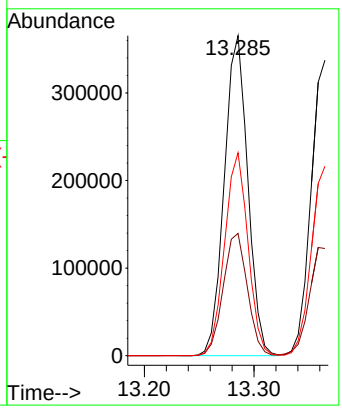


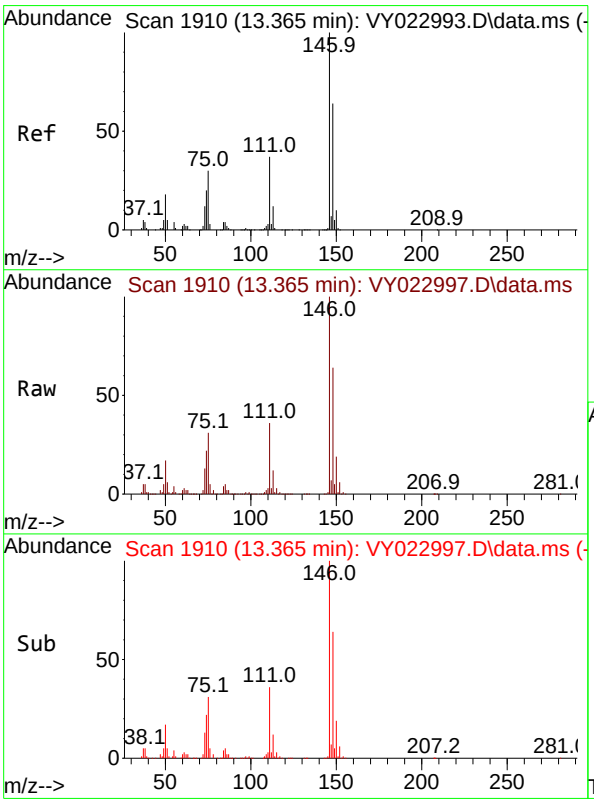
#87
1,3-Dichlorobenzene
Concen: 48.983 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:146 Resp: 544171

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.2	31.6	94.8

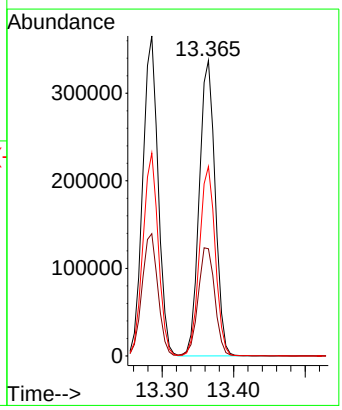


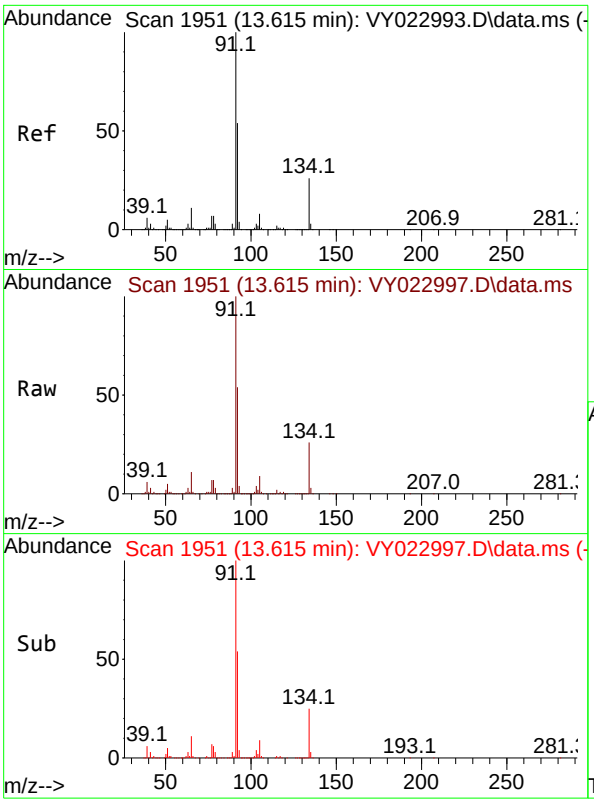


#88
1,4-Dichlorobenzene
Concen: 48.393 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:146 Resp: 520095

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	63.9	31.9	95.5



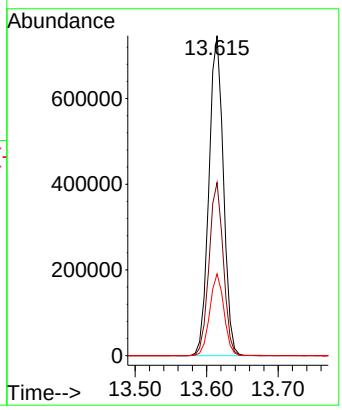


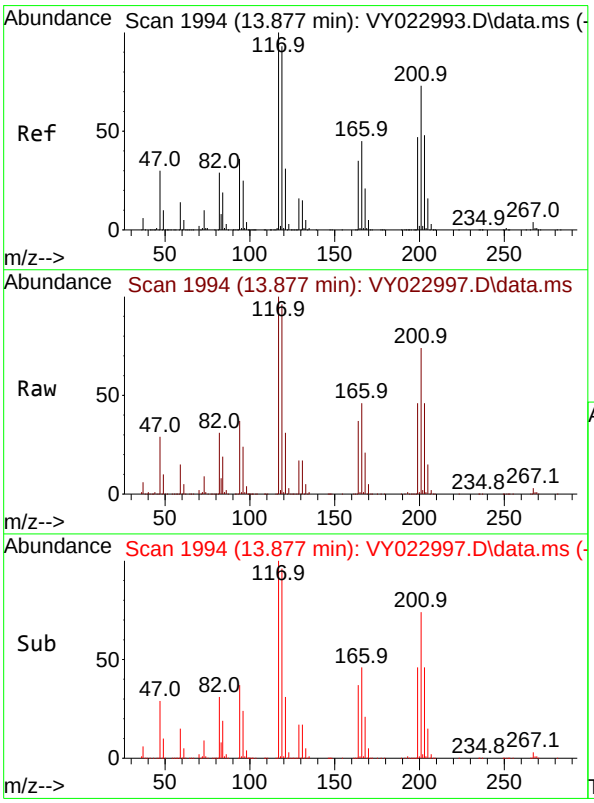
#89
n-Butylbenzene
Concen: 51.565 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion: 91 Resp: 1047169

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.1	12.6	37.6

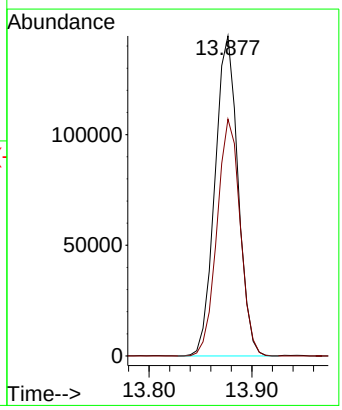


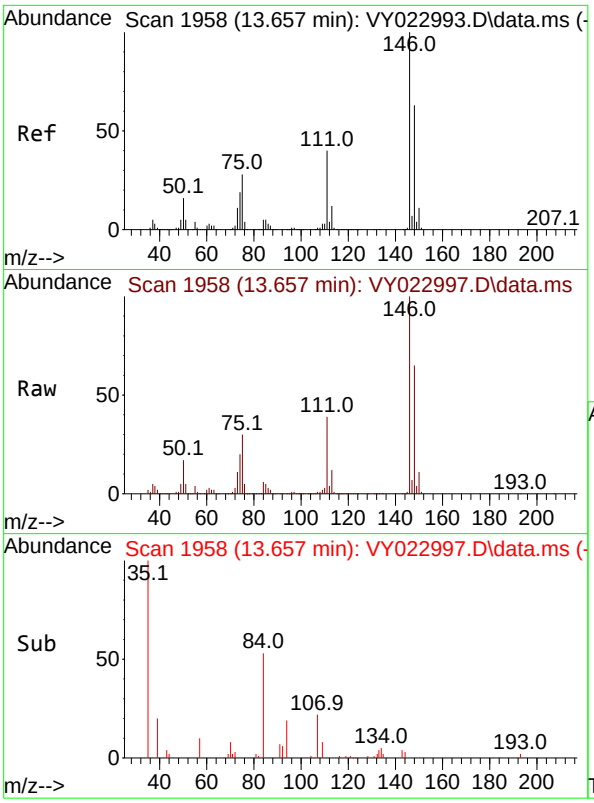


#90
Hexachloroethane
Concen: 49.436 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:117 Resp: 225252

Ion	Ratio	Lower	Upper
117	100		
201	74.3	36.1	108.5



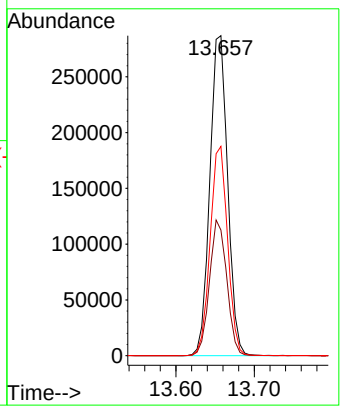


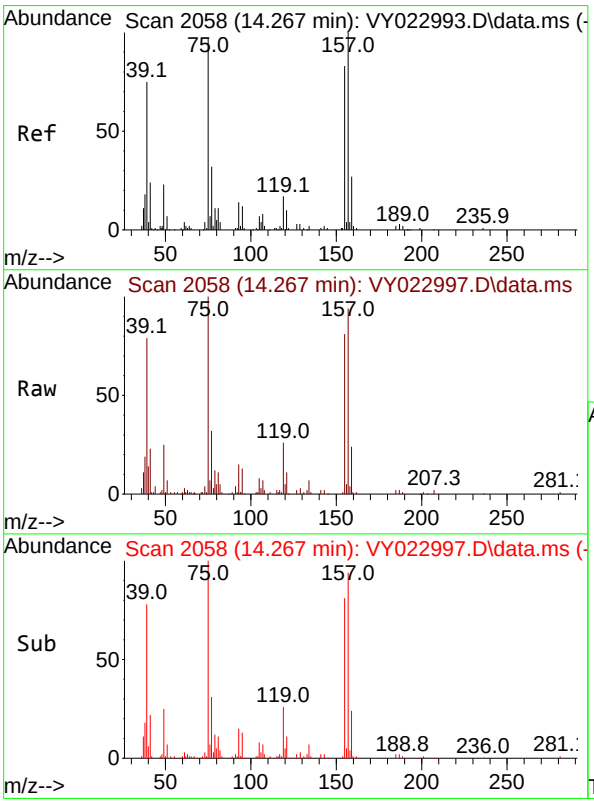
#91
1,2-Dichlorobenzene
Concen: 48.252 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:146 Resp: 452157

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	61.0
148	64.4	32.0	96.2

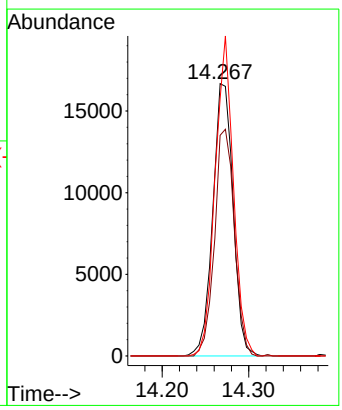


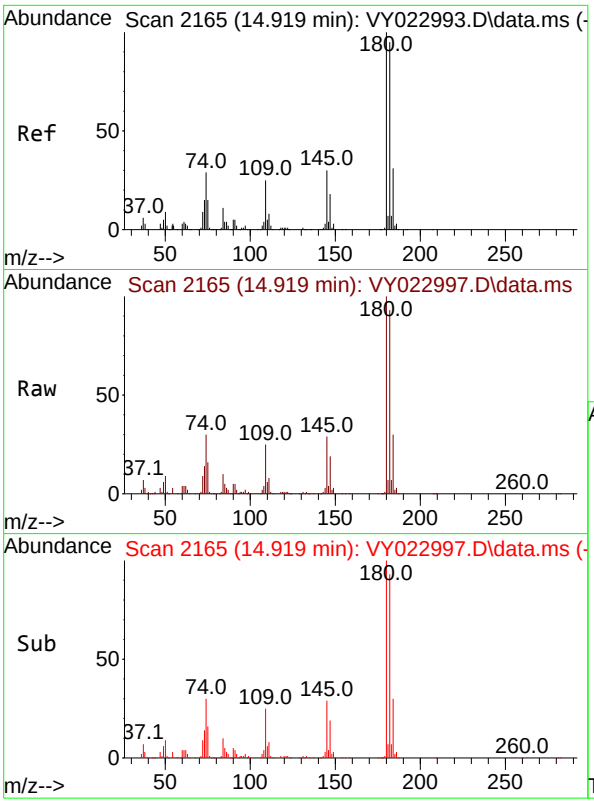


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.725 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion: 75 Resp: 27119

Ion	Ratio	Lower	Upper
75	100		
155	81.3	42.8	128.3
157	106.0	54.3	162.9



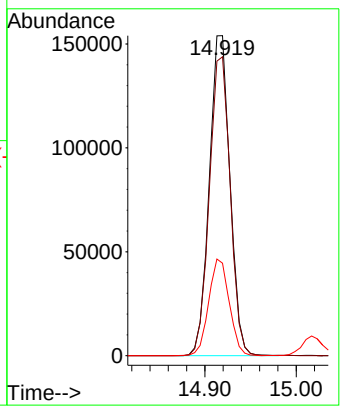


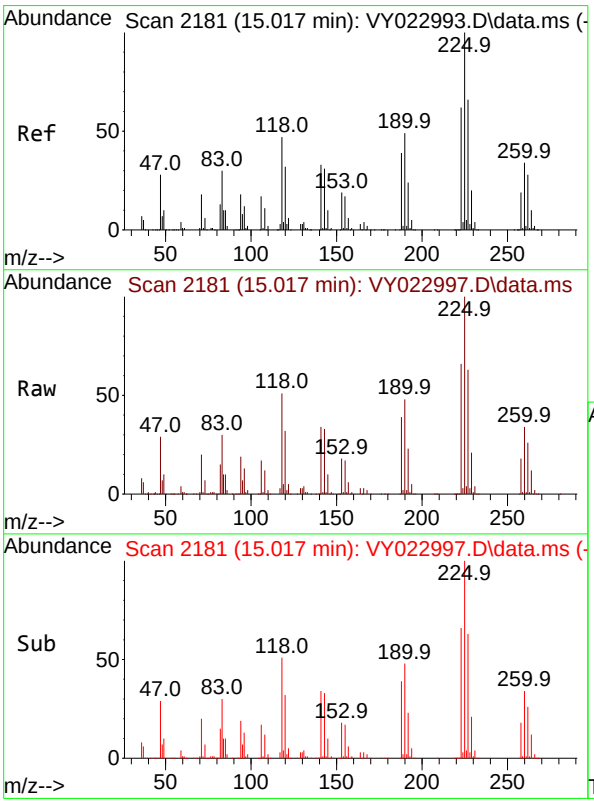
#93
1,2,4-Trichlorobenzene
Concen: 48.859 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:180 Resp: 241340

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.5	142.5
145	30.1	14.9	44.9

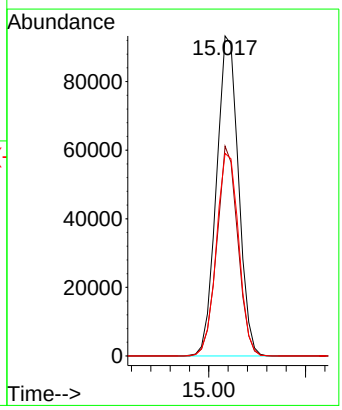


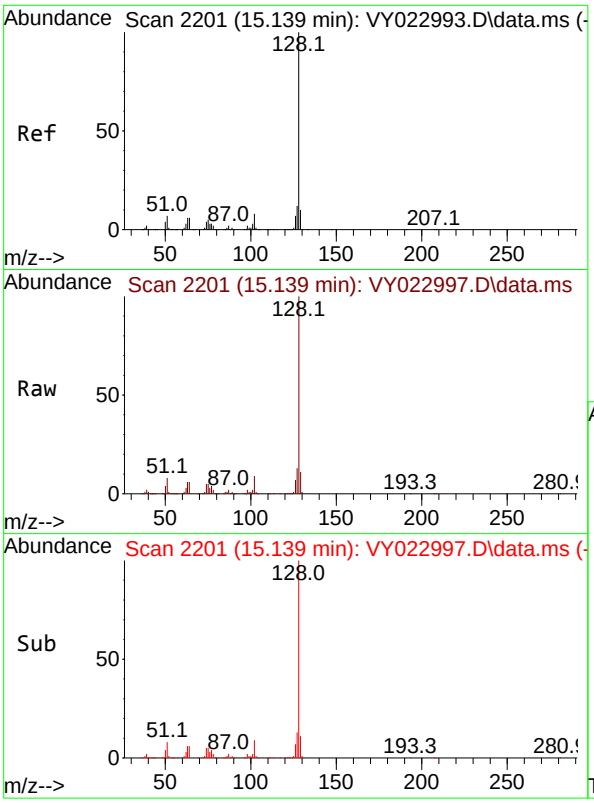


#94
Hexachlorobutadiene
Concen: 47.217 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:225 Resp: 147040

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.4	94.0
227	64.3	32.1	96.5



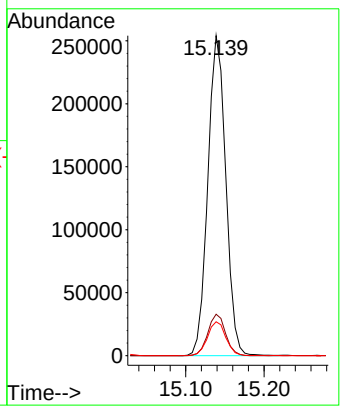


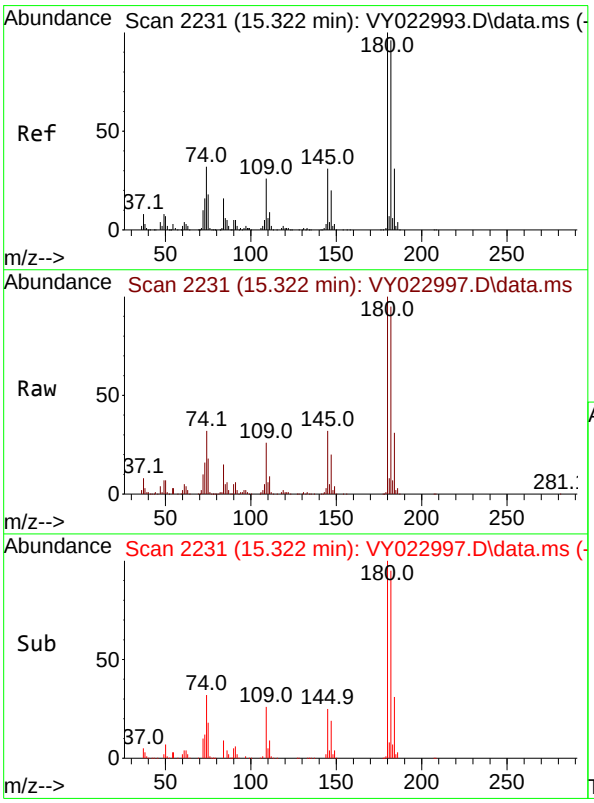
#95
Naphthalene
Concen: 51.062 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071825

Tgt Ion:128 Resp: 404535

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.6	12.8

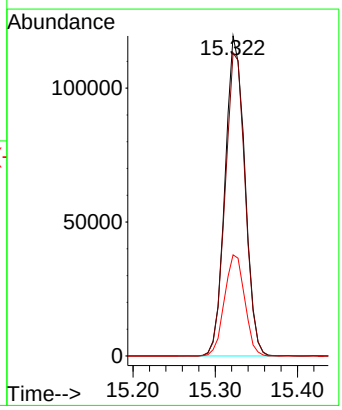




#96
1,2,3-Trichlorobenzene
Concen: 48.924 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY022997.D
Acq: 18 Jul 2025 14:02

Tgt Ion:180 Resp: 199538

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.3	142.0
145	32.3	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY01718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	436221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	709471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	602809	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.341	152	278729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	222189	50.315	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.620%			
35) Dibromofluoromethane	7.628	113	217239	48.271	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.540%			
50) Toluene-d8	10.103	98	860531	48.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.440%			
62) 4-Bromofluorobenzene	12.402	95	263791	46.955	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 93.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	75357	20.345	ug/l	98
3) Chloromethane	2.068	50	143349	22.761	ug/l	100
4) Vinyl Chloride	2.202	62	174459	21.864	ug/l	98
5) Bromomethane	2.586	94	137833	23.934	ug/l	99
6) Chloroethane	2.727	64	116439	21.850	ug/l	99
7) Trichlorofluoromethane	3.050	101	199524	21.541	ug/l	97
8) Diethyl Ether	3.452	74	50273	20.738	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	97156	19.967	ug/l	98
10) Methyl Iodide	4.001	142	81242	16.072	ug/l	99
11) Tert butyl alcohol	4.860	59	28396	106.325	ug/l	99
12) 1,1-Dichloroethene	3.781	96	93190	20.105	ug/l	99
13) Acrolein	3.641	56	18970	151.160	ug/l	98
14) Allyl chloride	4.379	41	141428	20.027	ug/l	99
15) Acrylonitrile	5.055	53	96308	104.884	ug/l	99
16) Acetone	3.867	43	83745	104.618	ug/l	95
17) Carbon Disulfide	4.098	76	286780	20.414	ug/l	99
18) Methyl Acetate	4.385	43	50379	18.590	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	225167	20.252	ug/l	99
20) Methylene Chloride	4.610	84	143610	20.608	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	102881	19.939	ug/l	96
22) Diisopropyl ether	6.019	45	309507	20.659	ug/l	99
23) Vinyl Acetate	5.958	43	808040	107.044	ug/l	99
24) 1,1-Dichloroethane	5.909	63	193829	20.598	ug/l	99
25) 2-Butanone	6.897	43	122652	106.806	ug/l	98
26) 2,2-Dichloropropane	6.878	77	161606	19.596	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	119300	20.062	ug/l	98
28) Bromochloromethane	7.244	49	77532	21.243	ug/l	96
29) Tetrahydrofuran	7.262	42	76482	105.194	ug/l	99
30) Chloroform	7.415	83	191909	20.217	ug/l	97
31) Cyclohexane	7.701	56	174472	19.843	ug/l	97
32) 1,1,1-Trichloroethane	7.610	97	171608	19.924	ug/l	99
36) 1,1-Dichloropropene	7.835	75	140975	19.887	ug/l	100
37) Ethyl Acetate	6.982	43	54365	20.649	ug/l	97
38) Carbon Tetrachloride	7.817	117	149882	19.461	ug/l	96
39) Methylcyclohexane	9.103	83	178734	19.480	ug/l	99
40) Benzene	8.079	78	425586	19.939	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY01718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.220	41	29307	20.434 ug/l	96
42) 1,2-Dichloroethane	8.152	62	108352	20.404 ug/l	99
43) Isopropyl Acetate	8.195	43	111756	21.370 ug/l #	86
44) Trichloroethene	8.860	130	107207	19.555 ug/l	98
45) 1,2-Dichloropropane	9.140	63	97977	19.657 ug/l	100
46) Dibromomethane	9.231	93	52396	20.337 ug/l	99
47) Bromodichloromethane	9.420	83	142366	19.991 ug/l	99
48) Methyl methacrylate	9.219	41	53129	21.043 ug/l	99
49) 1,4-Dioxane	9.225	88	10436	384.279 ug/l	98
51) 4-Methyl-2-Pentanone	9.994	43	279720	105.379 ug/l	99
52) Toluene	10.170	92	263920	19.888 ug/l	100
53) t-1,3-Dichloropropene	10.390	75	119486	19.545 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	144882	19.663 ug/l	96
55) 1,1,2-Trichloroethane	10.567	97	68786	20.313 ug/l	96
56) Ethyl methacrylate	10.439	69	84145	19.906 ug/l	98
57) 1,3-Dichloropropane	10.713	76	118536	20.264 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	207251	100.158 ug/l	99
59) 2-Hexanone	10.756	43	182559	104.630 ug/l	98
60) Dibromochloromethane	10.908	129	88291	19.911 ug/l	99
61) 1,2-Dibromoethane	11.012	107	61533	20.010 ug/l	98
64) Tetrachloroethene	10.646	164	125172	20.315 ug/l	95
65) Chlorobenzene	11.438	112	274210	19.277 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.512	131	92484	19.062 ug/l	99
67) Ethyl Benzene	11.518	91	489285	19.406 ug/l	97
68) m/p-Xylenes	11.627	106	375895	38.869 ug/l	100
69) o-Xylene	11.951	106	171968	19.161 ug/l	99
70) Styrene	11.969	104	281919	19.177 ug/l	100
71) Bromoform	12.127	173	47203	19.165 ug/l #	99
73) Isopropylbenzene	12.249	105	456033	19.298 ug/l	100
74) N-amyl acetate	12.066	43	93486	20.983 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	66193	19.356 ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	98545	28.373 ug/l #	100
77) Bromobenzene	12.530	156	97397	19.003 ug/l	97
78) n-propylbenzene	12.591	91	551100	19.583 ug/l	99
79) 2-Chlorotoluene	12.676	91	307709	19.442 ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	358710	19.246 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	22618	19.396 ug/l	97
82) 4-Chlorotoluene	12.774	91	314623	19.710 ug/l	99
83) tert-Butylbenzene	12.993	119	315405	18.735 ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	356535	19.433 ug/l	99
85) sec-Butylbenzene	13.170	105	486092	19.267 ug/l	99
86) p-Isopropyltoluene	13.286	119	397045	19.377 ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	194823	18.836 ug/l	98
88) 1,4-Dichlorobenzene	13.359	146	191774	19.165 ug/l	98
89) n-Butylbenzene	13.615	91	370199	19.579 ug/l	99
90) Hexachloroethane	13.877	117	80585	18.996 ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	167090	19.151 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10483	20.645 ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	89924	19.553 ug/l	98
94) Hexachlorobutadiene	15.017	225	55423	19.115 ug/l	98
95) Naphthalene	15.139	128	143662	19.476 ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	74797	19.697 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY01718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

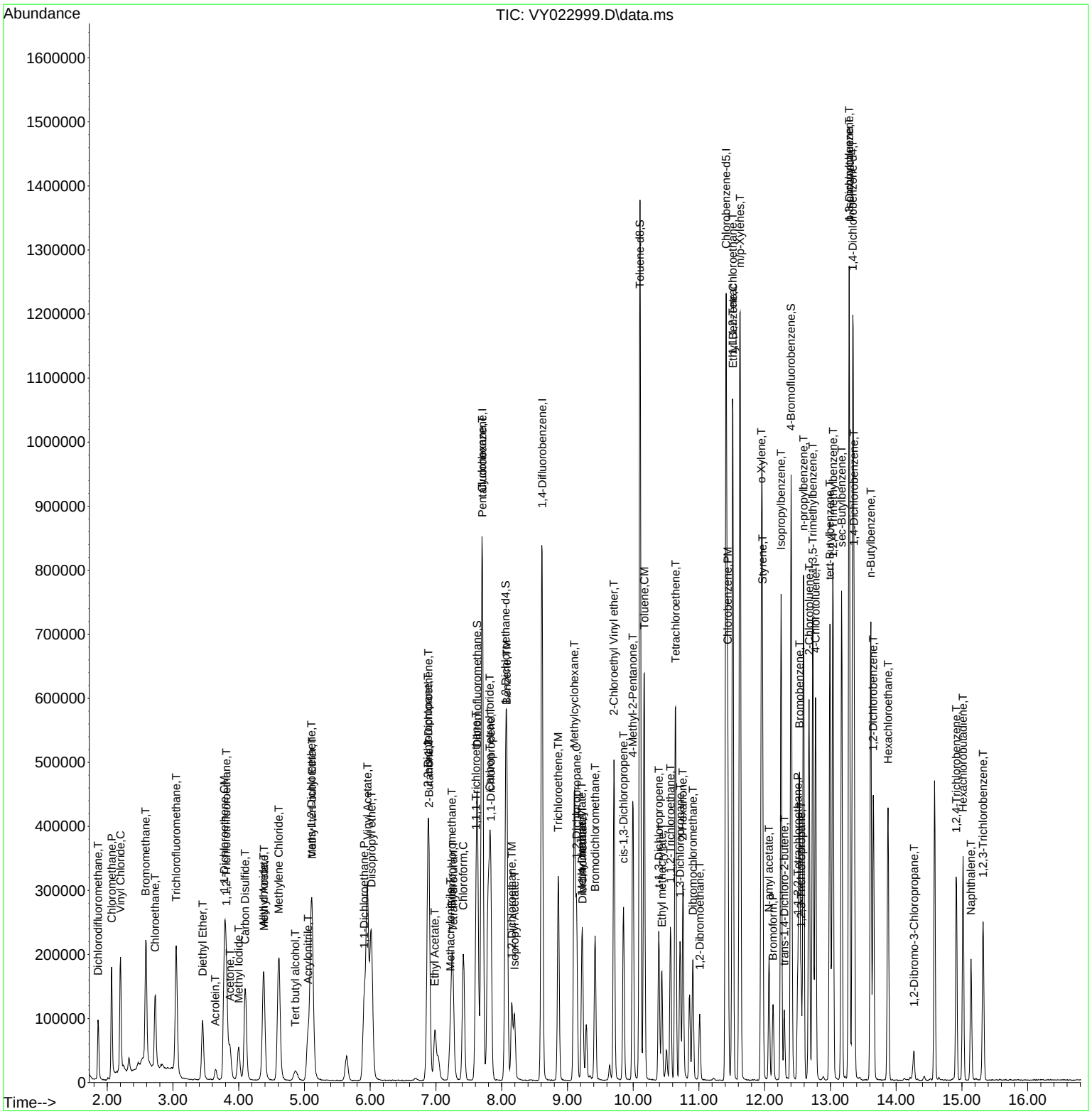
(#) = qualifier out of range (m) = manual integration (+) = signals summed

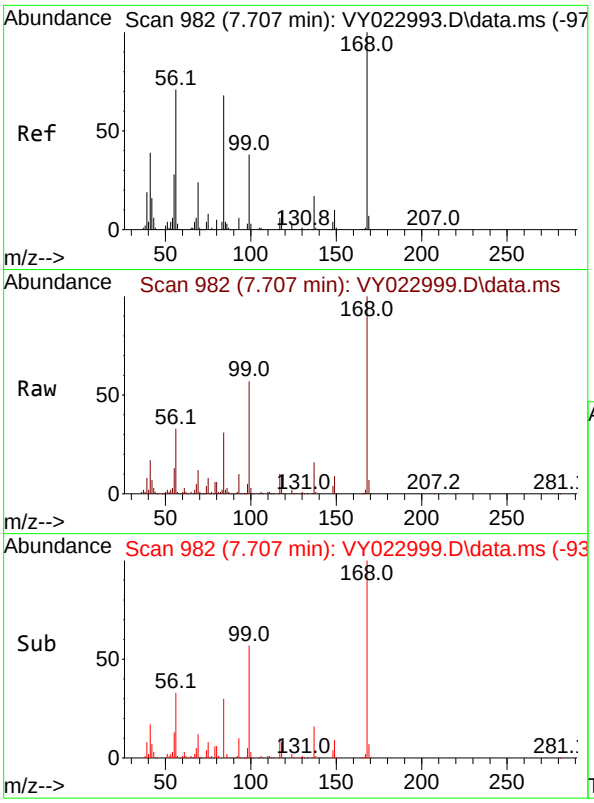
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY022999.D
Acq On : 18 Jul 2025 15:37
Operator : SY/MD
Sample : VY01718SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Quant Time: Jul 19 02:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



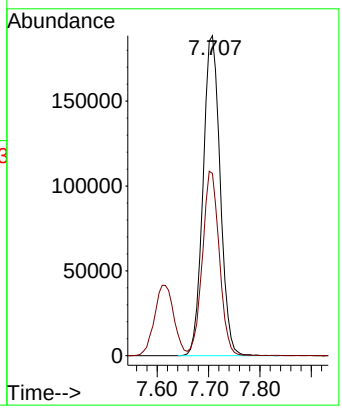


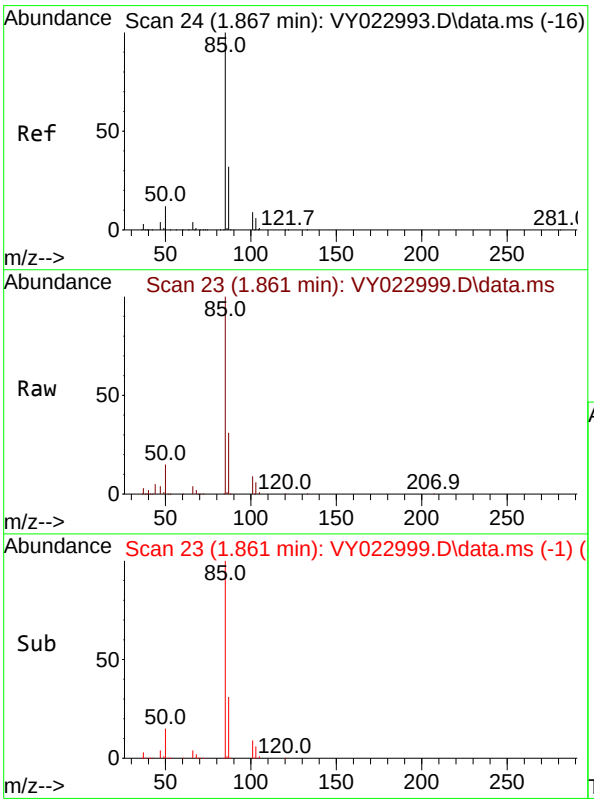
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:168 Resp: 436221

Ion	Ratio	Lower	Upper
168	100		
99	56.9	44.4	66.6

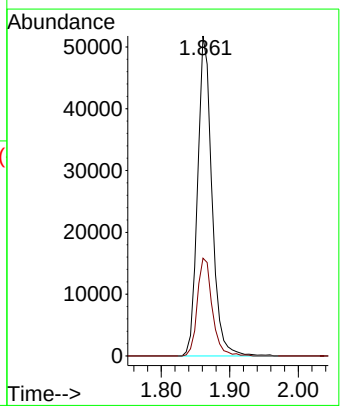


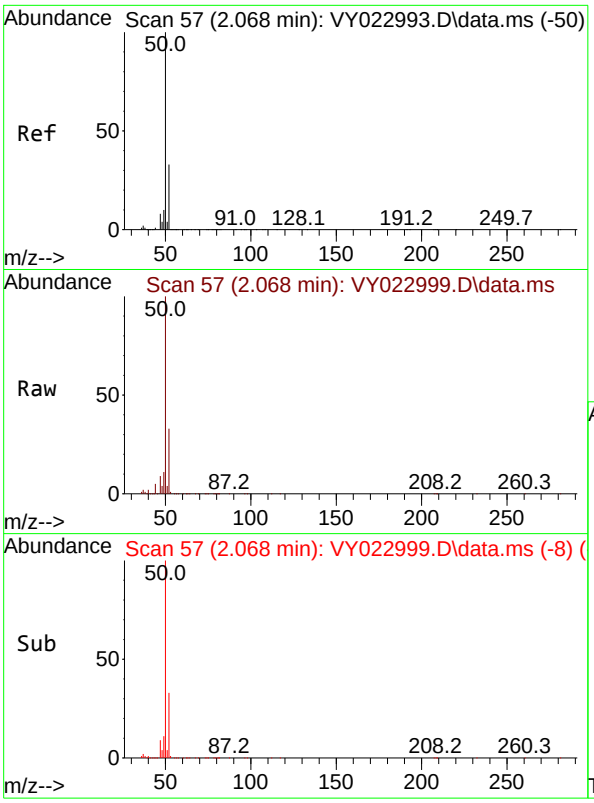


#2
Dichlorodifluoromethane
Concen: 20.345 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 85 Resp: 75357

Ion	Ratio	Lower	Upper
85	100		
87	30.6	16.0	47.9



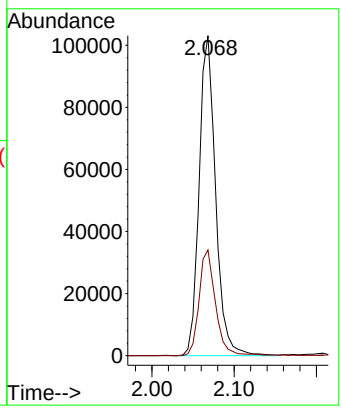


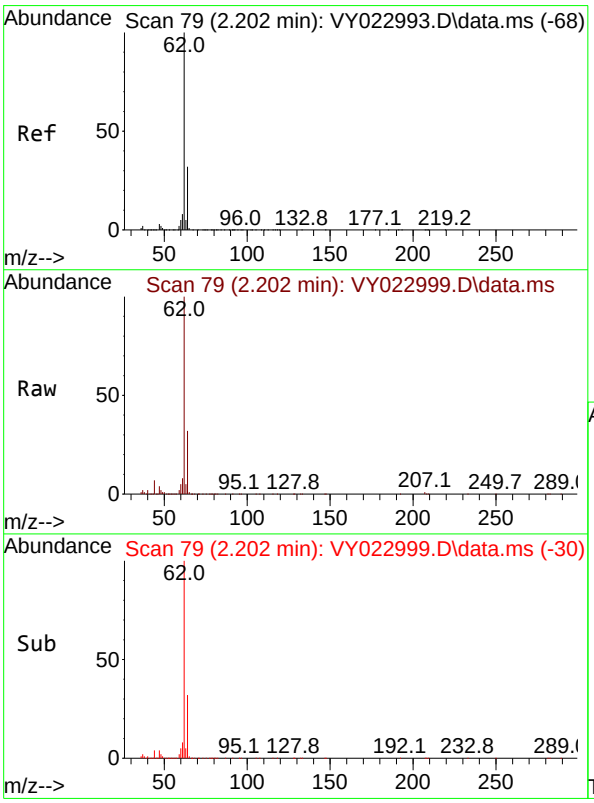
#3
Chloromethane
Concen: 22.761 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 50 Resp: 143349

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.6	39.8

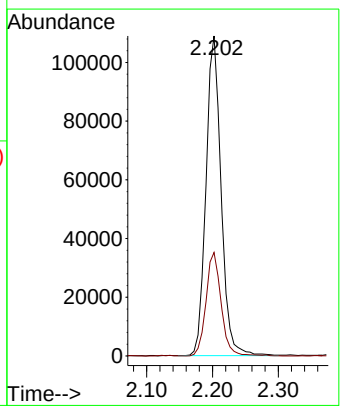


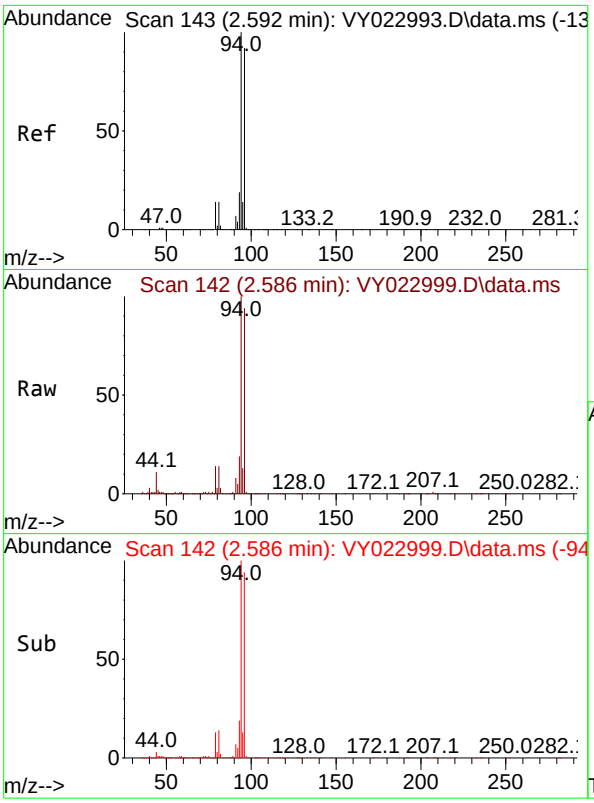


#4
Vinyl Chloride
Concen: 21.864 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 62 Resp: 174459

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8



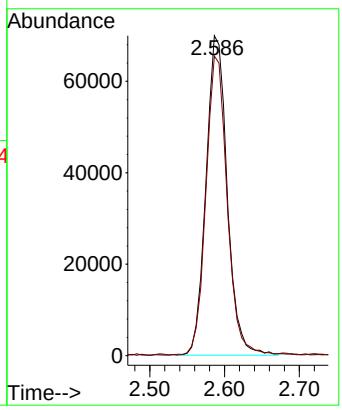


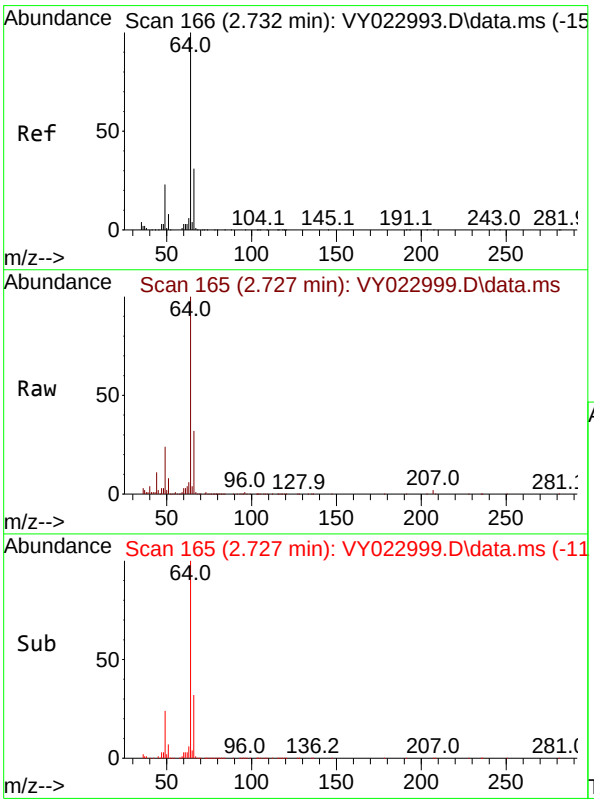
#5
Bromomethane
Concen: 23.934 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 94 Resp: 137833

Ion	Ratio	Lower	Upper
94	100		
96	93.4	73.9	110.9

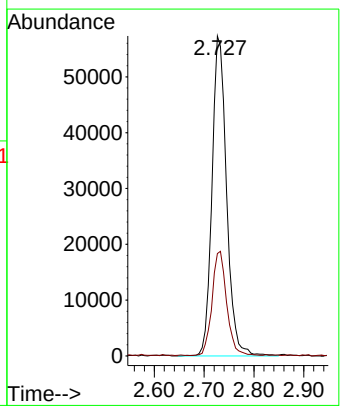


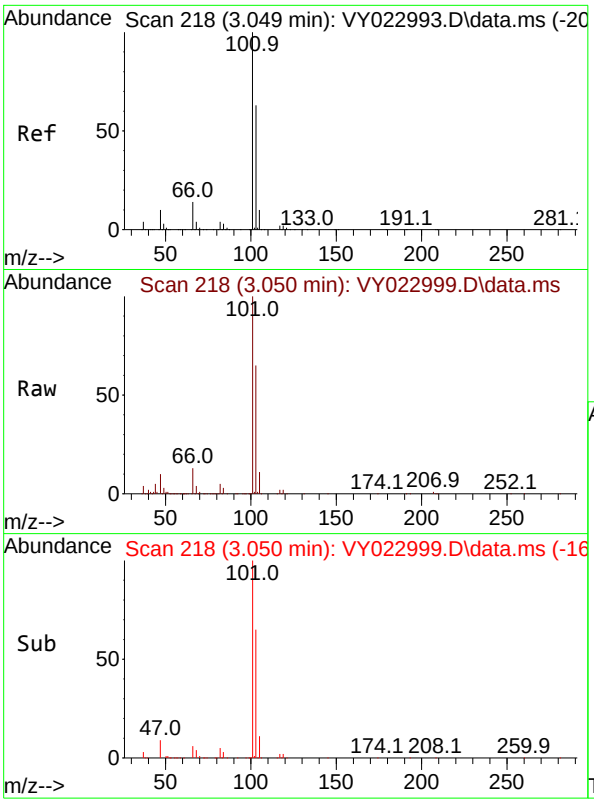


#6
Chloroethane
Concen: 21.850 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 64 Resp: 116439

Ion	Ratio	Lower	Upper
64	100		
66	31.8	24.9	37.3



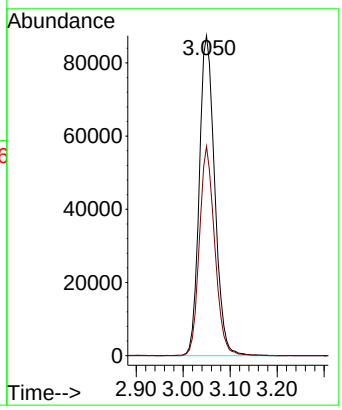


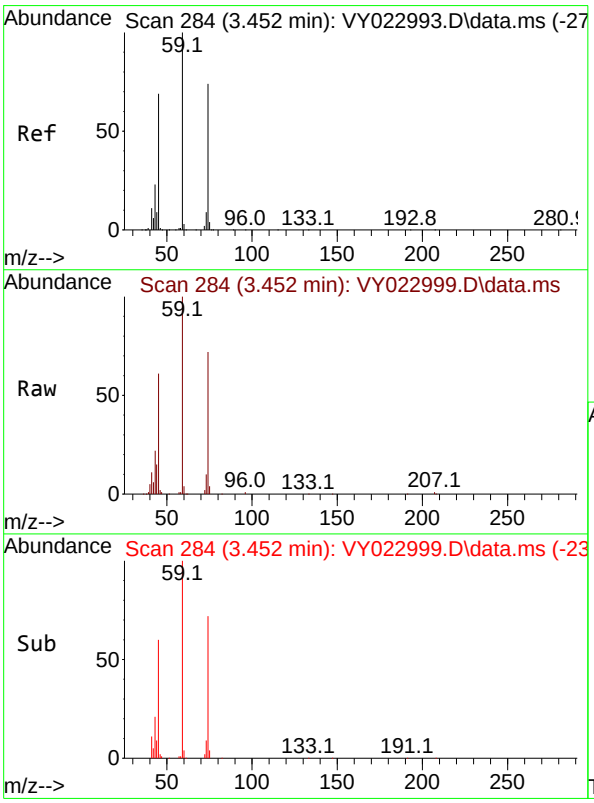
#7
Trichlorofluoromethane
Concen: 21.541 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:101 Resp: 199524

Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.7	76.1

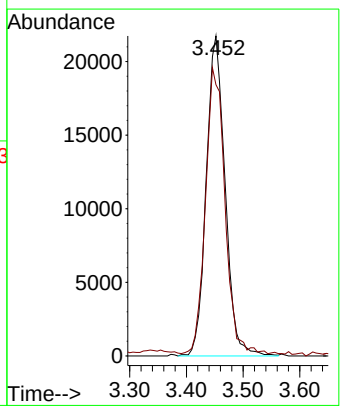


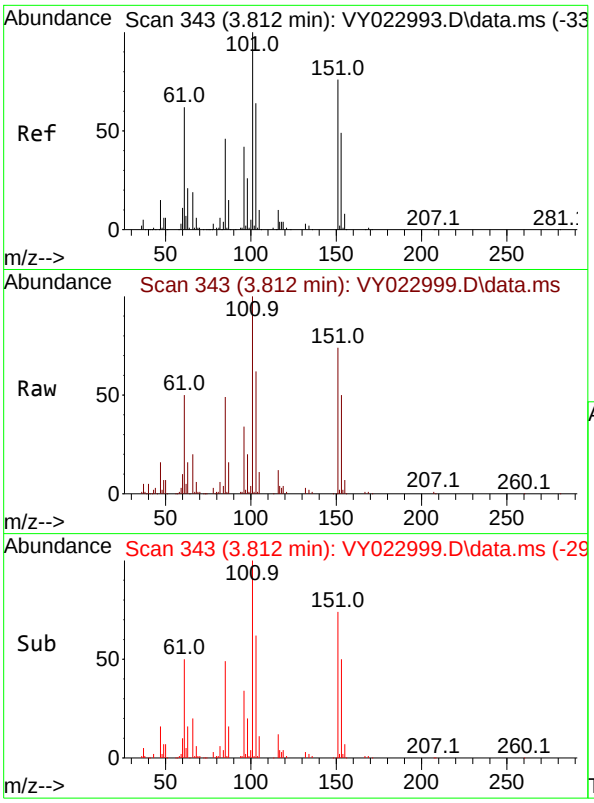


#8
Diethyl Ether
Concen: 20.738 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 74 Resp: 50273

Ion	Ratio	Lower	Upper
74	100		
45	91.9	45.1	135.2



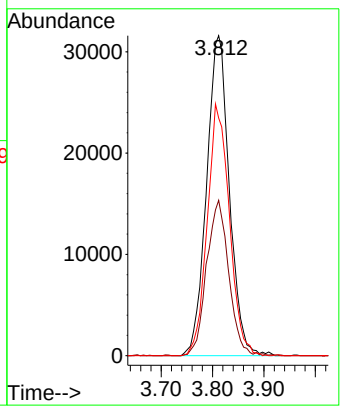


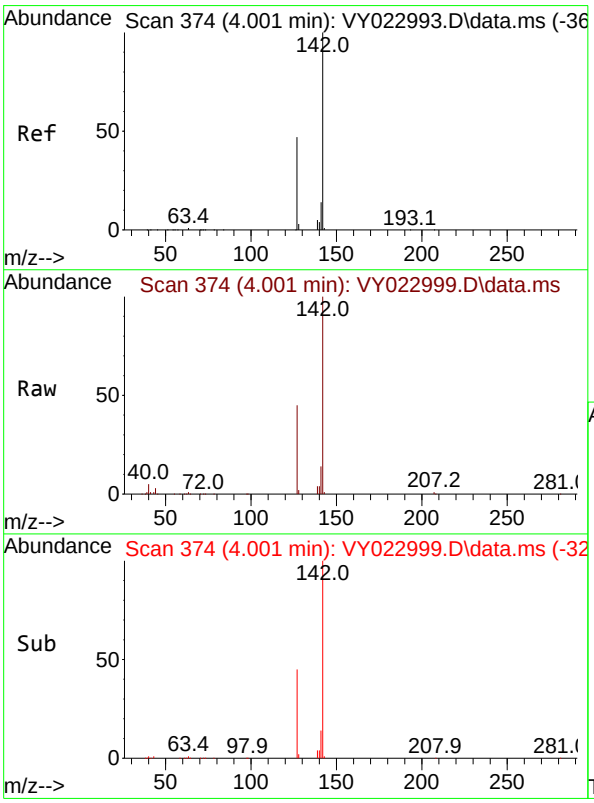
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.967 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:101 Resp: 97156

Ion	Ratio	Lower	Upper
101	100		
85	47.4	37.2	55.8
151	76.4	59.7	89.5

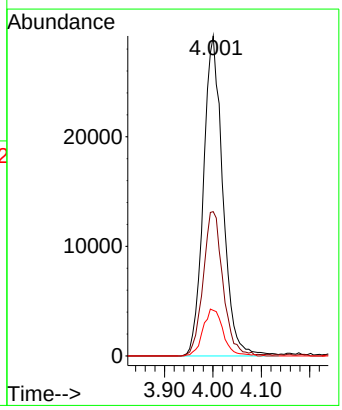


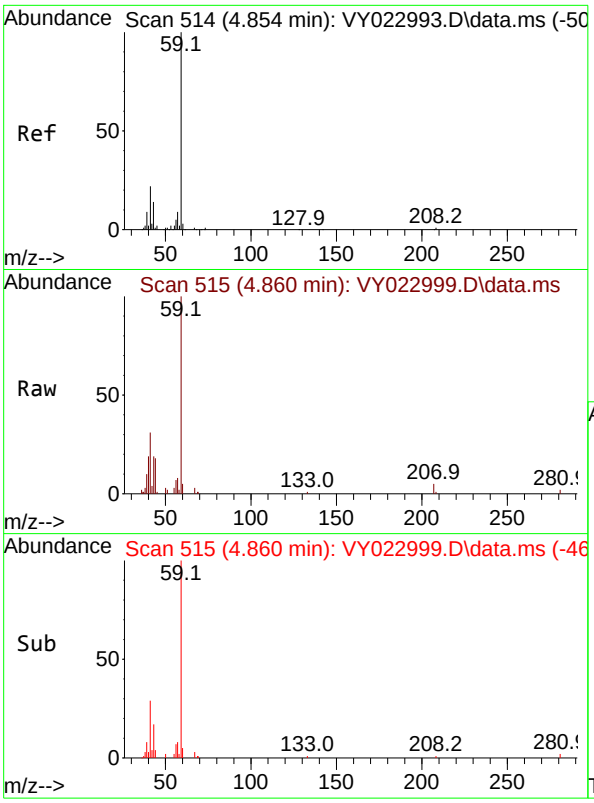


#10
Methyl Iodide
Concen: 16.072 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:142 Resp: 81242

Ion	Ratio	Lower	Upper
142	100		
127	46.3	37.0	55.6
141	15.2	11.4	17.2



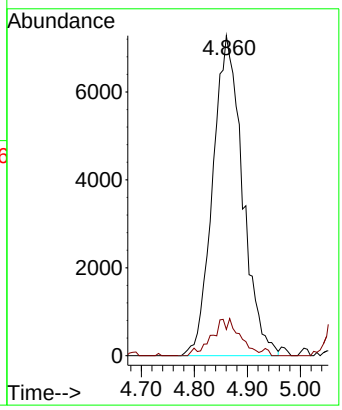


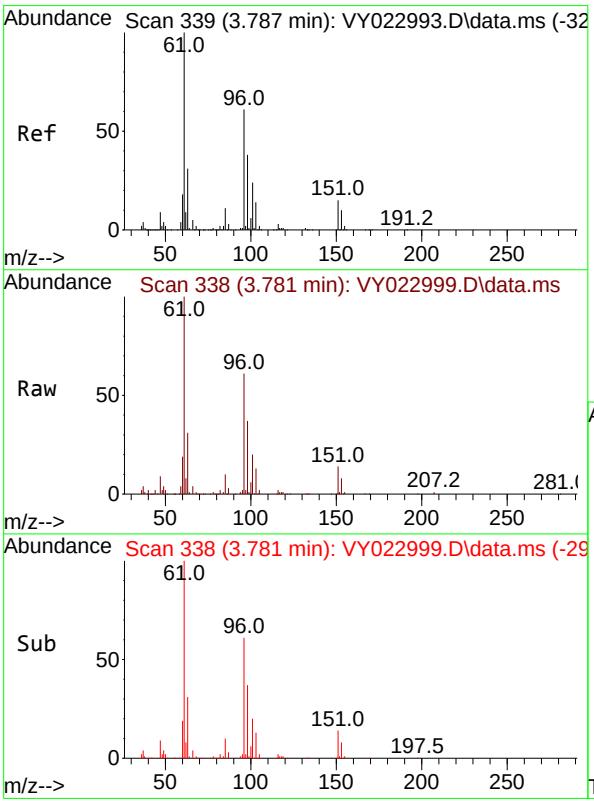
#11
Tert butyl alcohol
Concen: 106.325 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 59 Resp: 28396

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.2	12.2

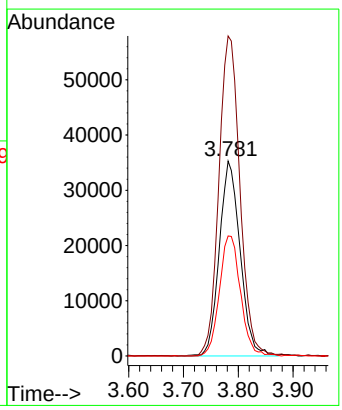


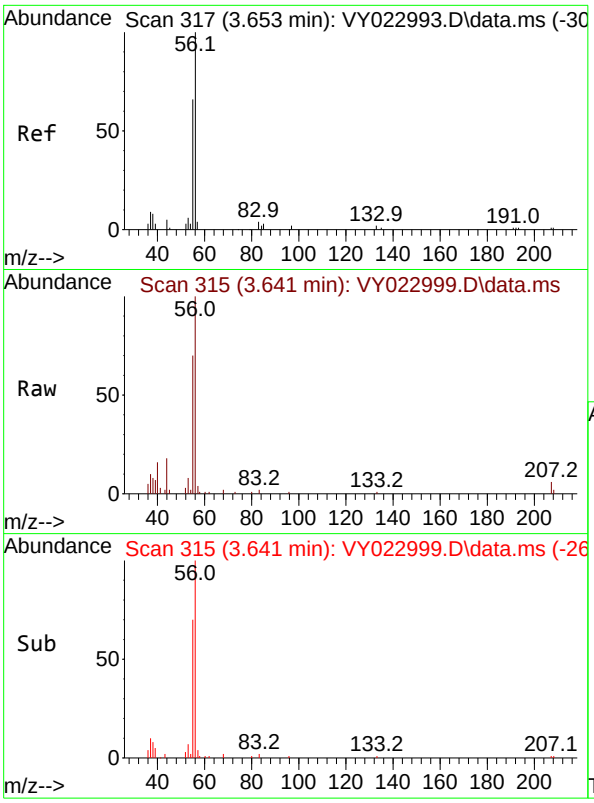


#12
1,1-Dichloroethene
Concen: 20.105 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 96 Resp: 93190

Ion	Ratio	Lower	Upper
96	100		
61	164.2	130.4	195.6
98	61.6	49.6	74.4



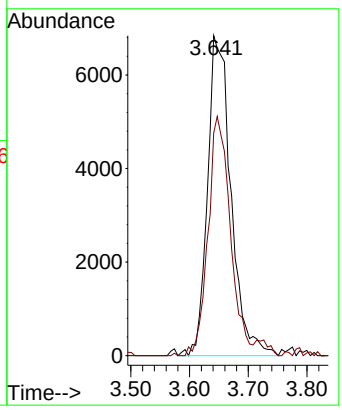


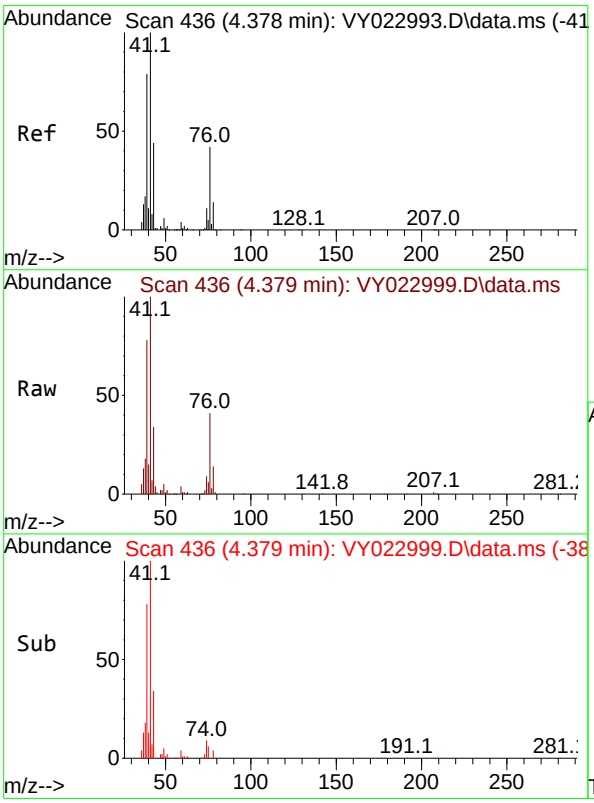
#13
Acrolein
Concen: 151.160 ug/l
RT: 3.641 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 56 Resp: 18970

Ion	Ratio	Lower	Upper
56	100		
55	70.7	57.8	86.6

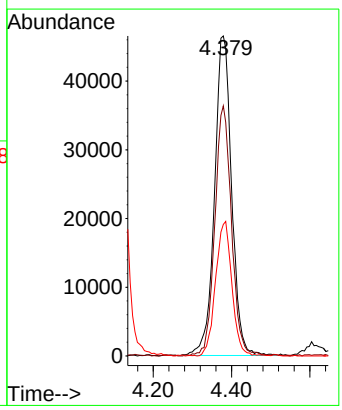


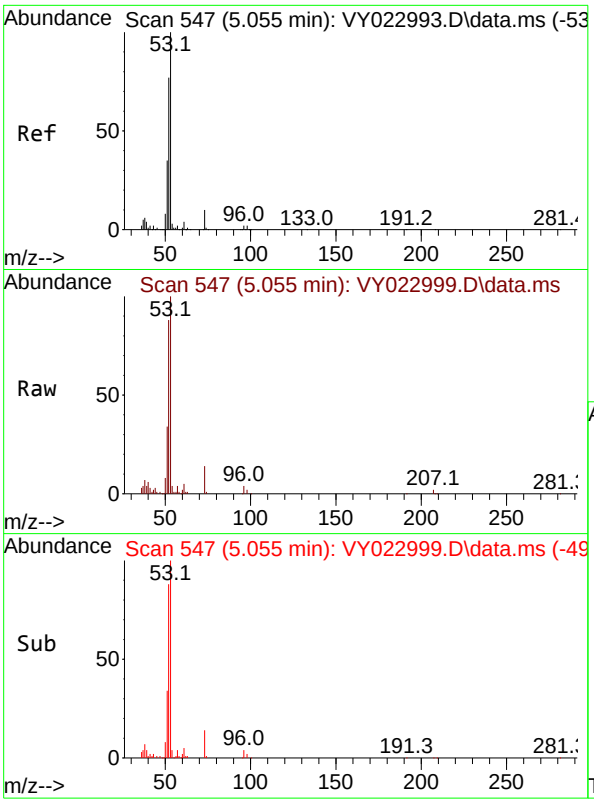


#14
Allyl chloride
Concen: 20.027 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 41 Resp: 141428

Ion	Ratio	Lower	Upper
41	100		
39	76.4	60.1	90.1
76	40.3	32.2	48.4



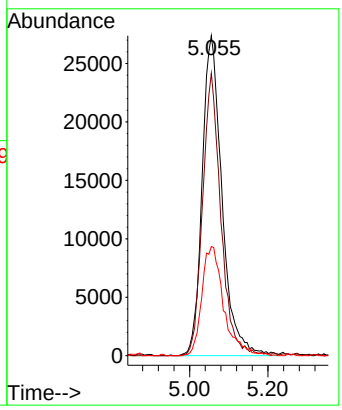


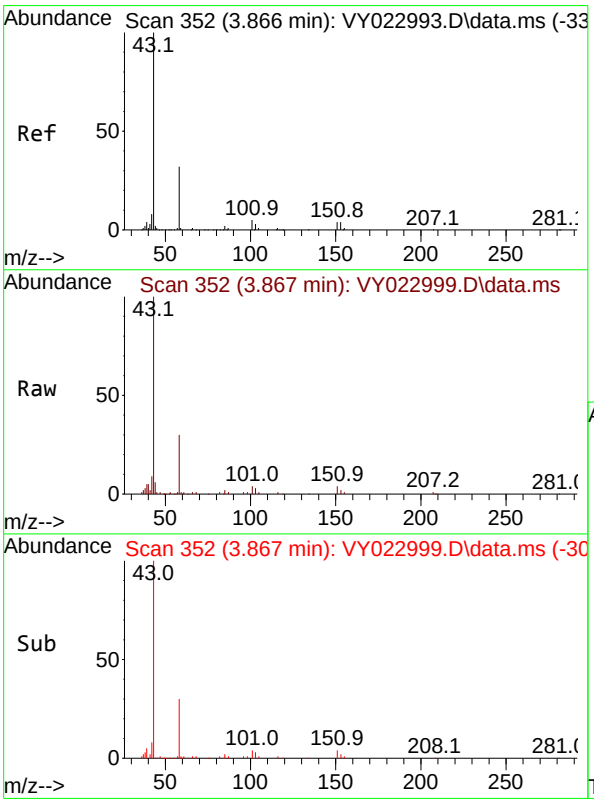
#15
Acrylonitrile
Concen: 104.884 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 53 Resp: 96308

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.2	97.8
51	37.2	30.3	45.5

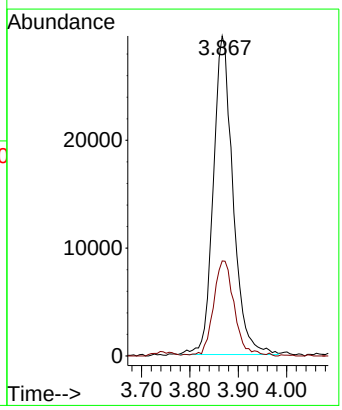


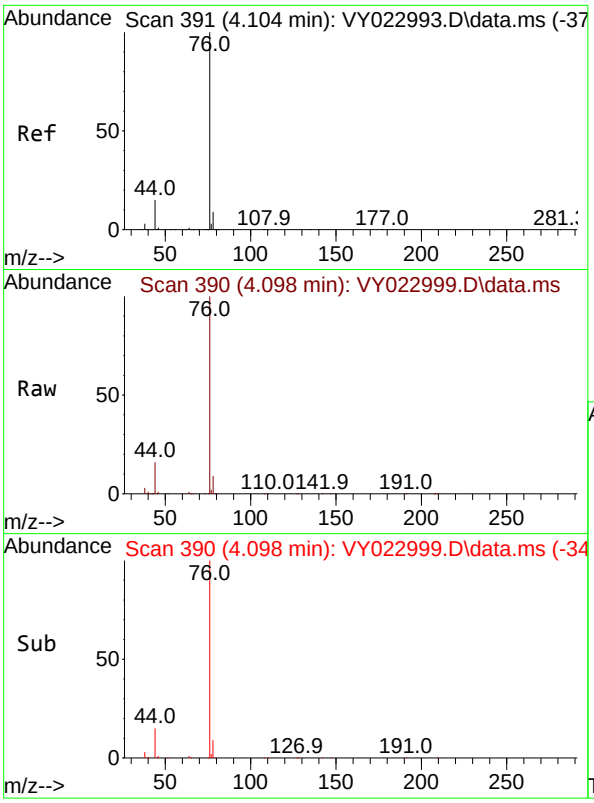


#16
Acetone
Concen: 104.618 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 83745

Ion	Ratio	Lower	Upper
43	100		
58	29.8	26.2	39.4



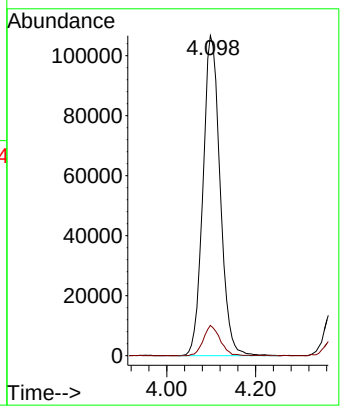


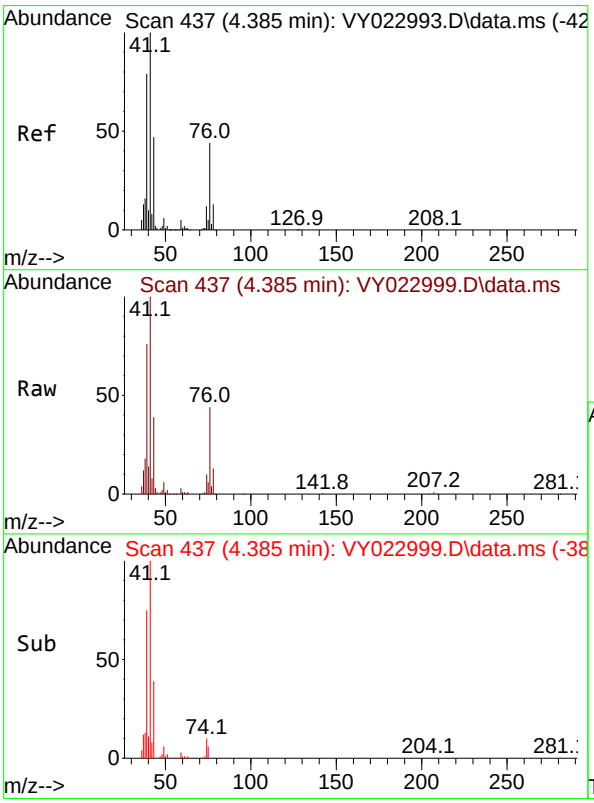
#17
Carbon Disulfide
Concen: 20.414 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 76 Resp: 286780

Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.4	11.0

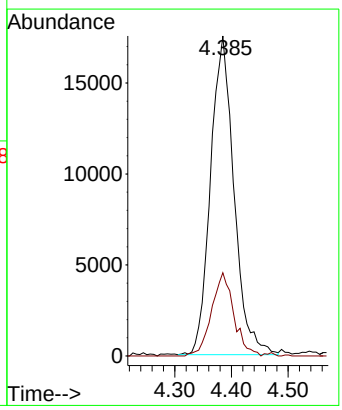


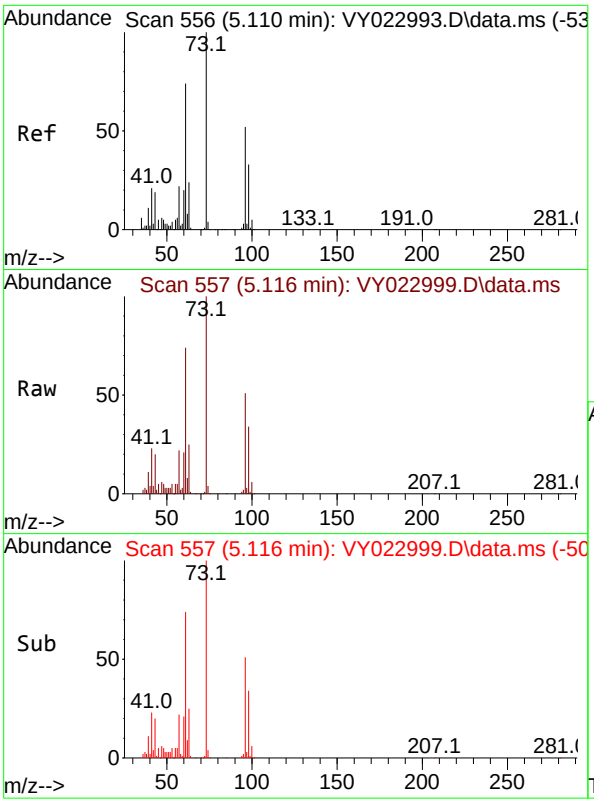


#18
Methyl Acetate
Concen: 18.590 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 50379

Ion	Ratio	Lower	Upper
43	100		
74	24.8	20.1	30.1



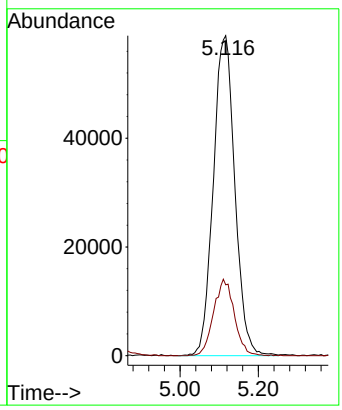


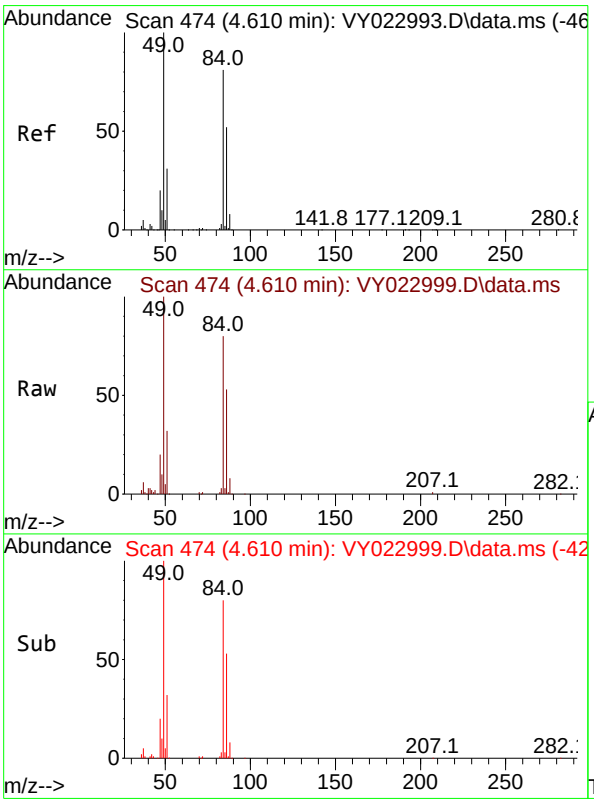
#19
Methyl tert-butyl Ether
Concen: 20.252 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 73 Resp: 225167

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

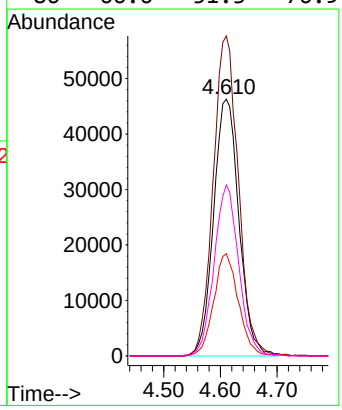


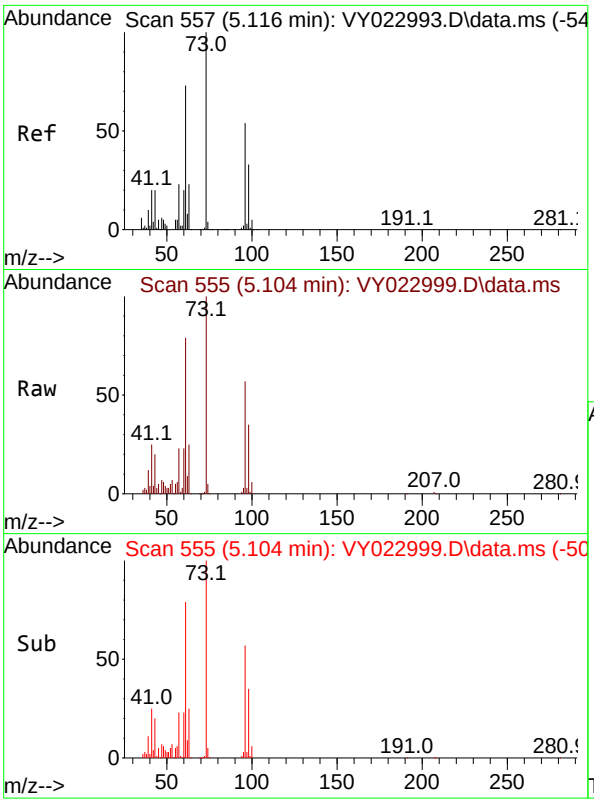


#20
Methylene Chloride
Concen: 20.608 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 84 Resp: 143610

Ion	Ratio	Lower	Upper
84	100		
49	124.6	98.2	147.4
51	39.8	30.5	45.7
86	66.6	51.3	76.9



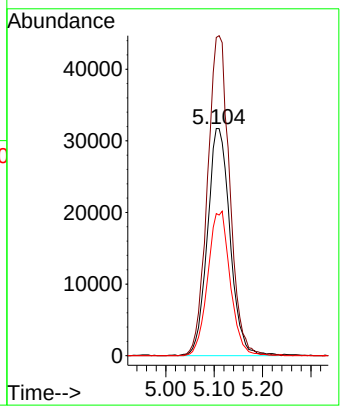


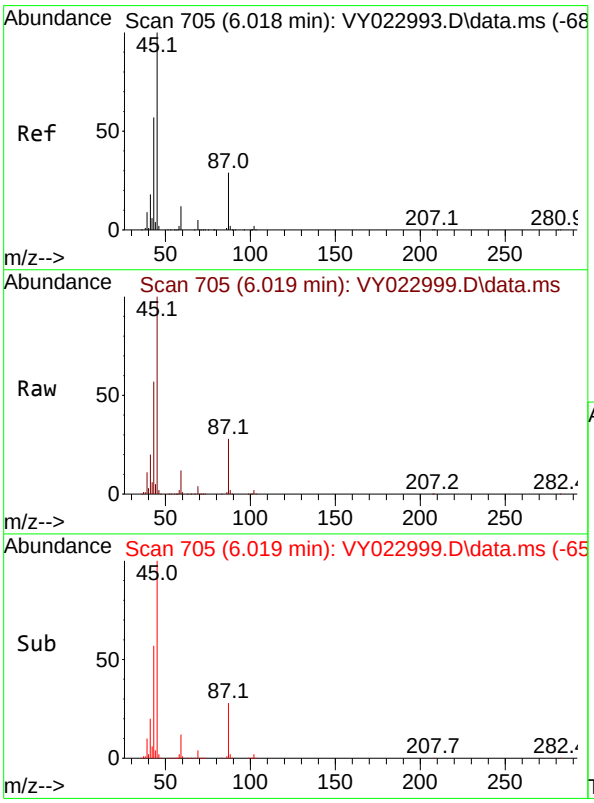
#21
trans-1,2-Dichloroethene
Concen: 19.939 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 96 Resp: 102881

Ion	Ratio	Lower	Upper
96	100		
61	140.1	107.4	161.2
98	62.6	49.3	73.9

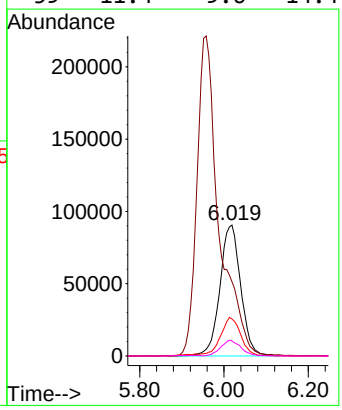


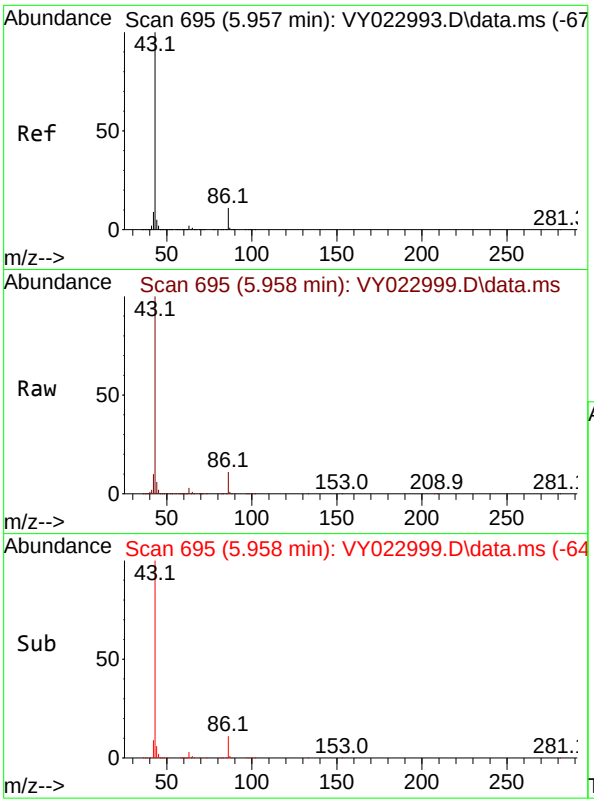


#22
Diisopropyl ether
Concen: 20.659 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 45 Resp: 309507

Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.3	67.9
87	28.2	23.3	34.9
59	11.4	9.6	14.4



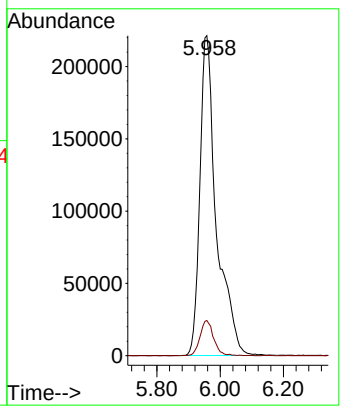


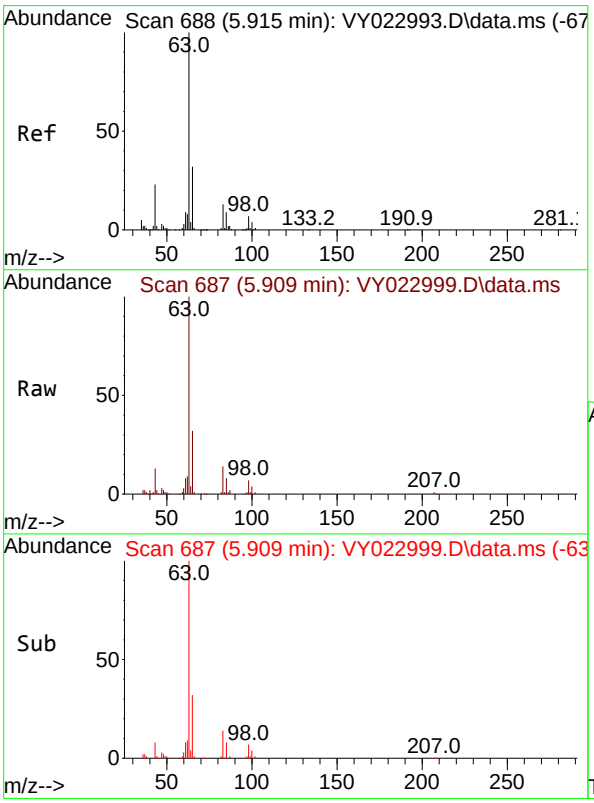
#23
Vinyl Acetate
Concen: 107.044 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 43 Resp: 808040

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.0	13.4

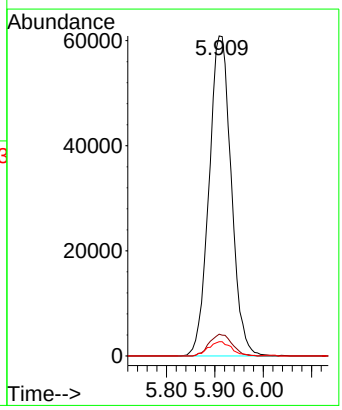


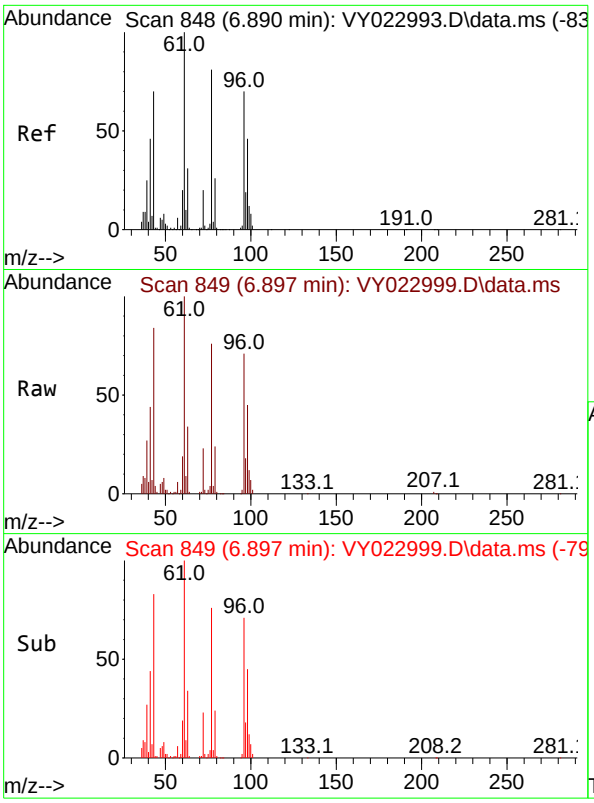


#24
1,1-Dichloroethane
Concen: 20.598 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 63 Resp: 193829

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.5	10.5
100	4.4	2.1	6.2



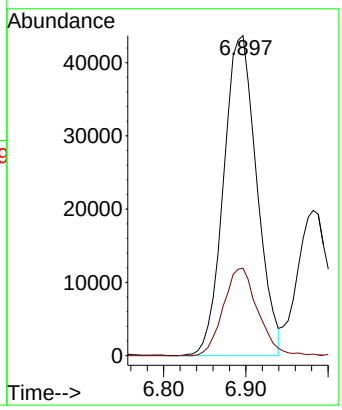


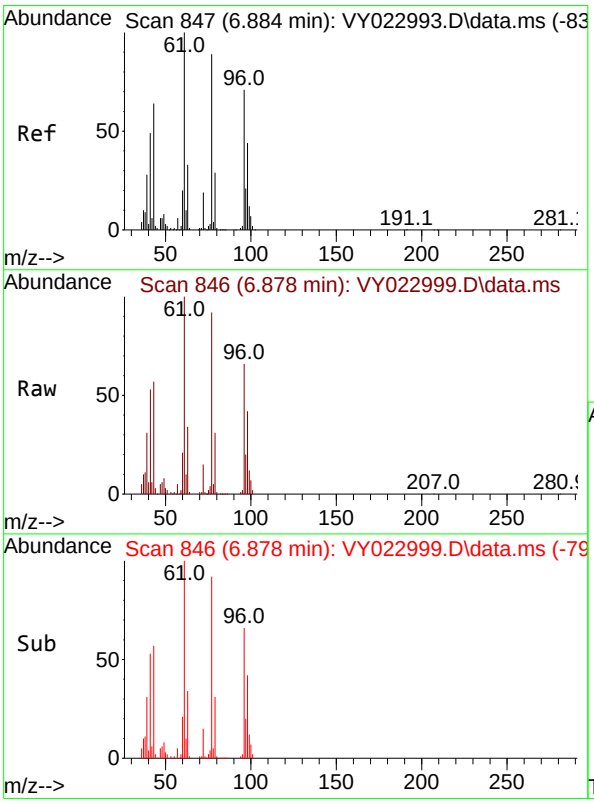
#25
2-Butanone
Concen: 106.806 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 43 Resp: 122652

Ion	Ratio	Lower	Upper
43	100		
72	27.4	22.9	34.3

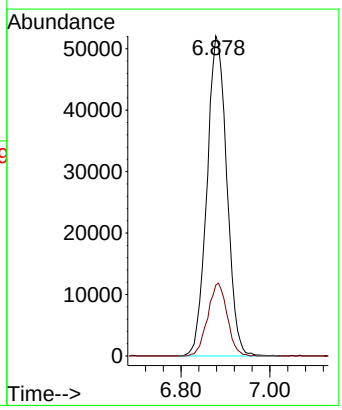


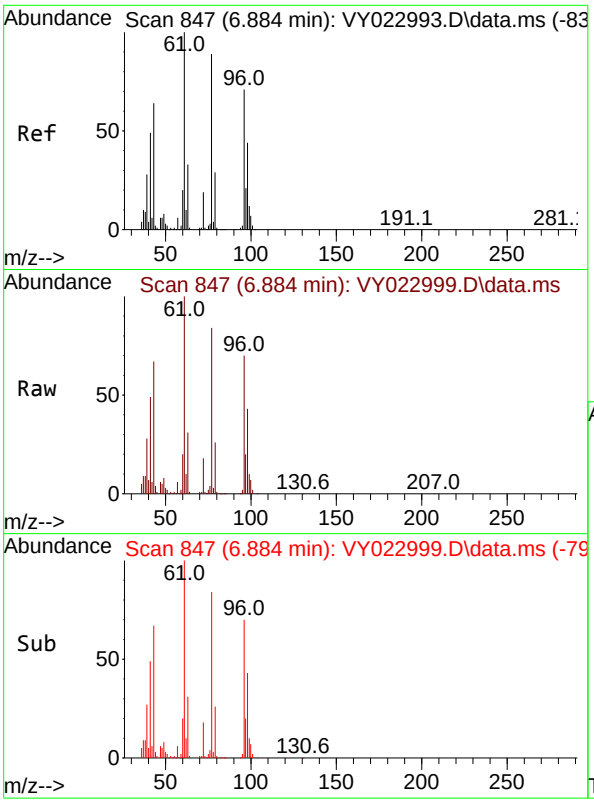


#26
2,2-Dichloropropane
Concen: 19.596 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 77 Resp: 161606

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.3	33.9



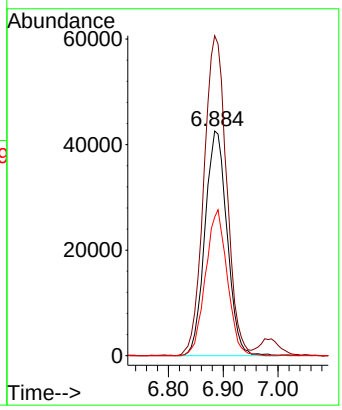


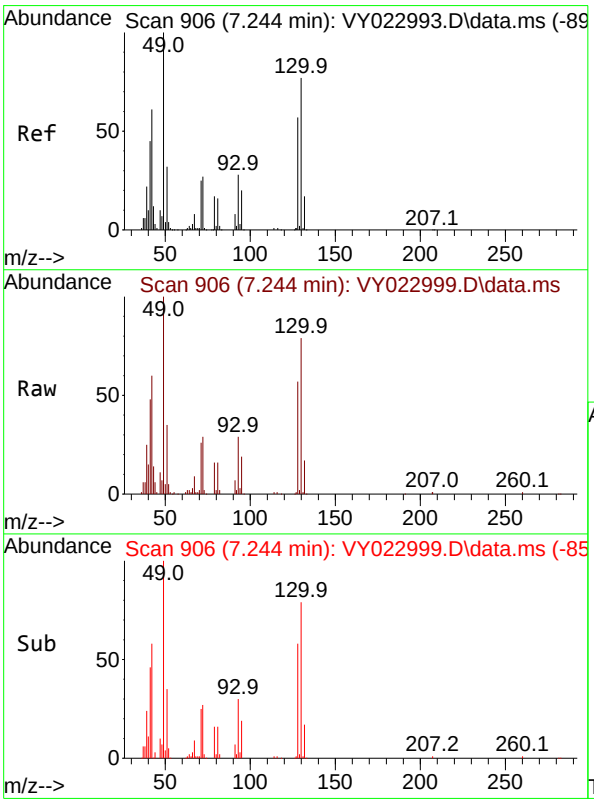
#27
cis-1,2-Dichloroethene
Concen: 20.062 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 96 Resp: 119300

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	286.2
98	63.7	0.0	127.4

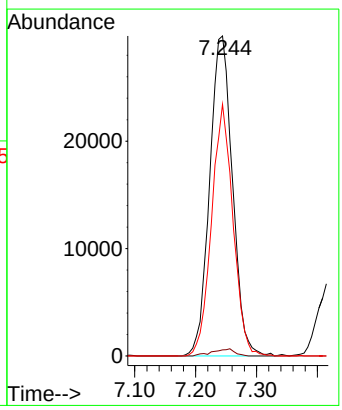


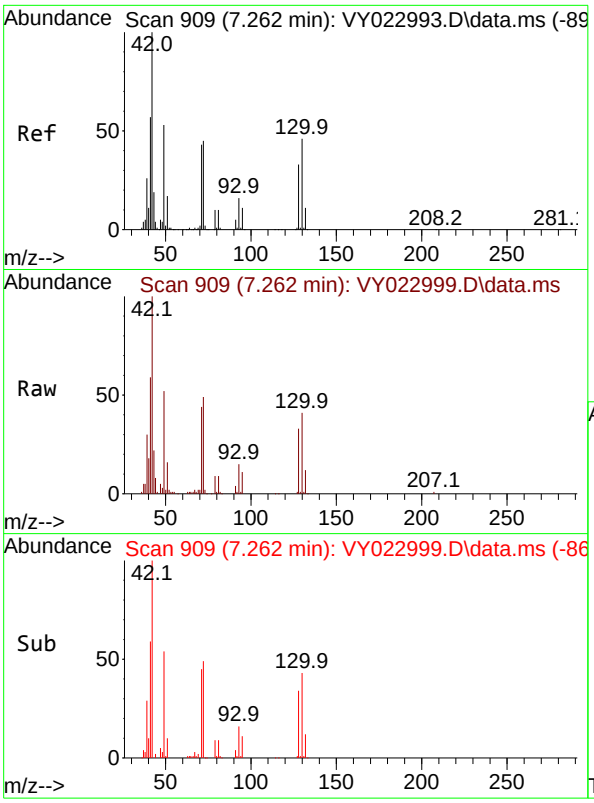


#28
Bromochloromethane
Concen: 21.243 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 49 Resp: 77532

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	73.8	61.8	92.8



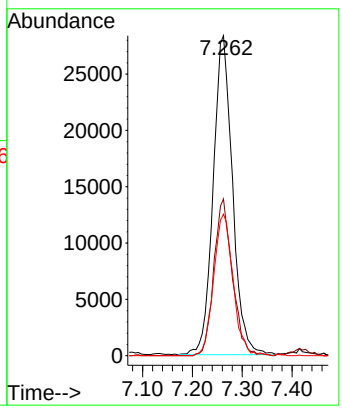


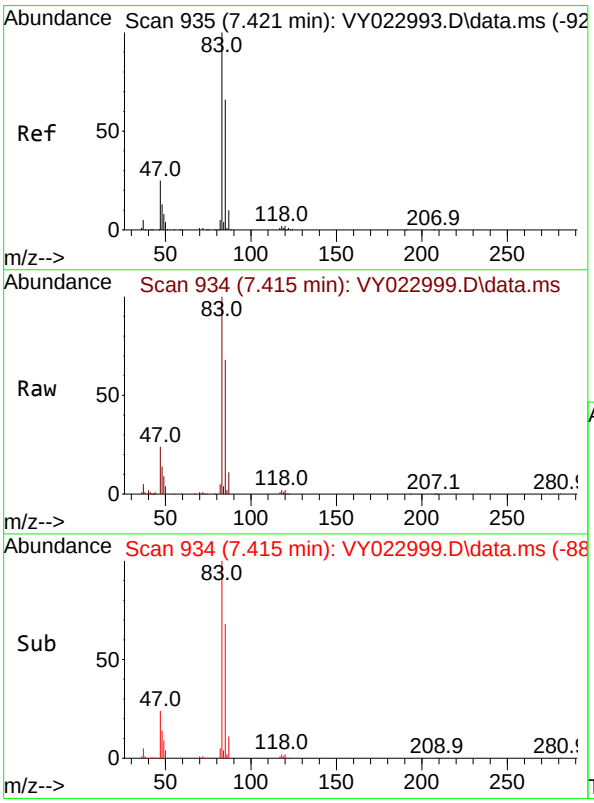
#29
Tetrahydrofuran
Concen: 105.194 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 42 Resp: 76482

Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.5	56.3
71	44.5	34.2	51.4

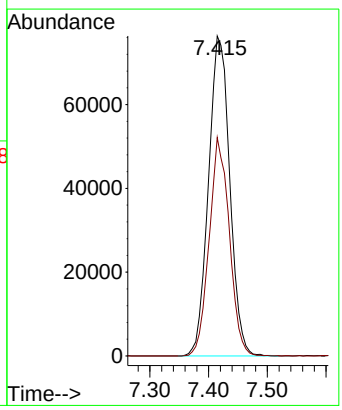


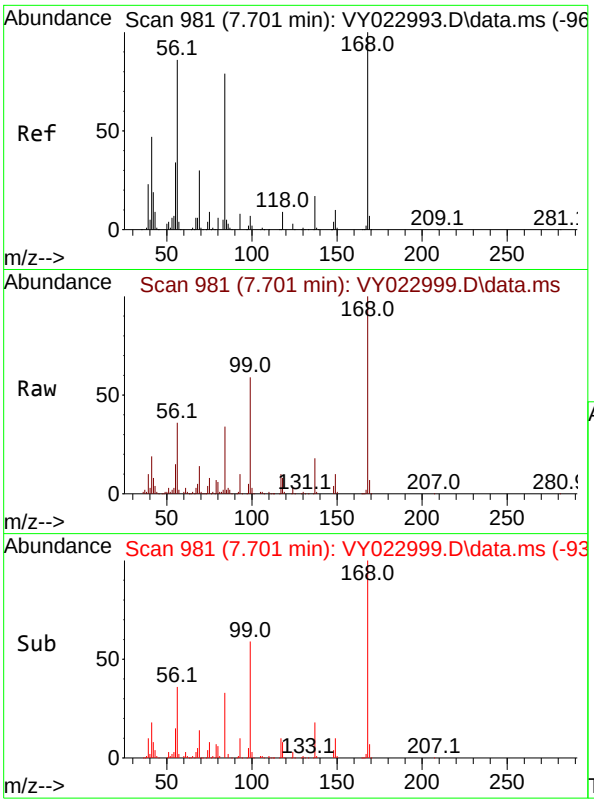


#30
Chloroform
Concen: 20.217 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 83 Resp: 191909

Ion	Ratio	Lower	Upper
83	100		
85	68.2	52.6	78.8



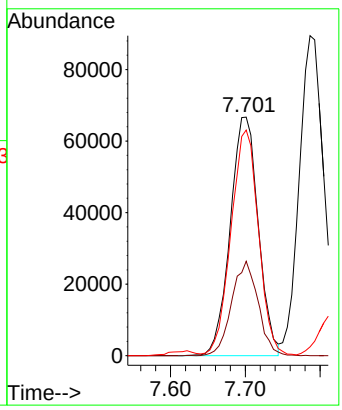


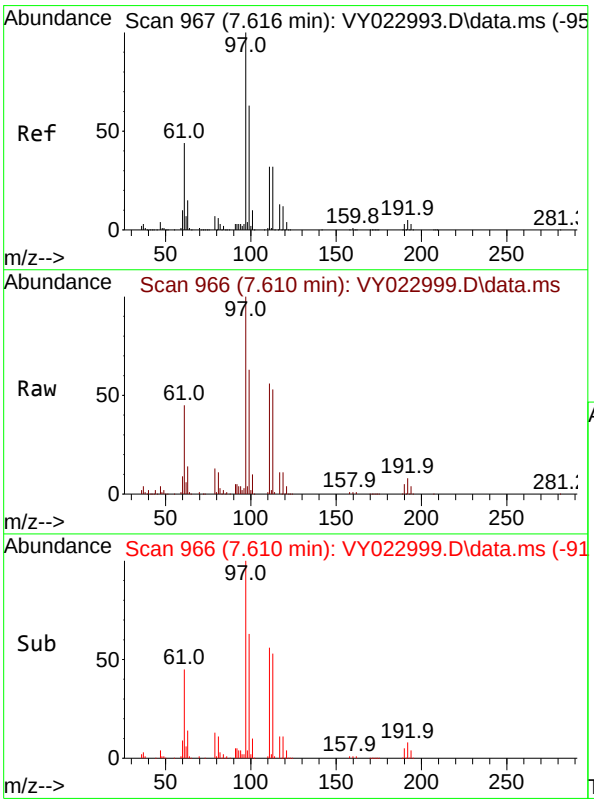
#31
Cyclohexane
Concen: 19.843 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 56 Resp: 174472

Ion	Ratio	Lower	Upper
56	100		
69	39.6	28.1	42.1
84	93.0	73.5	110.3

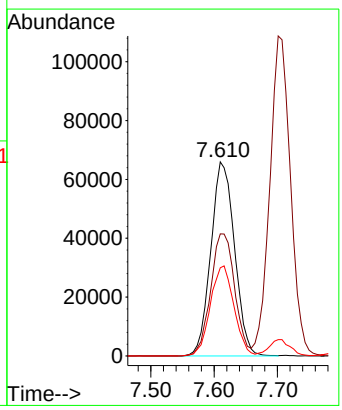


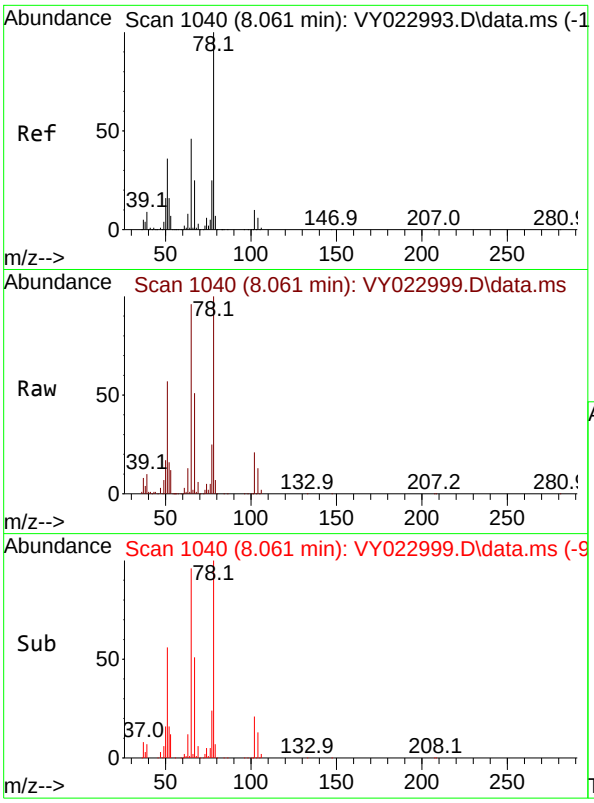


#32
1,1,1-Trichloroethane
Concen: 19.924 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 97 Resp: 171608

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	46.3	36.1	54.1



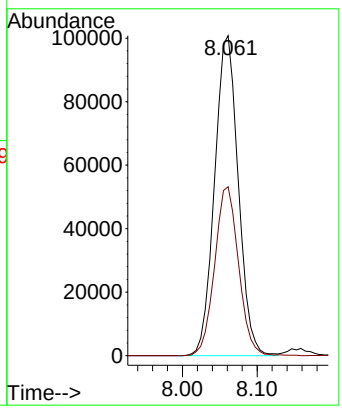


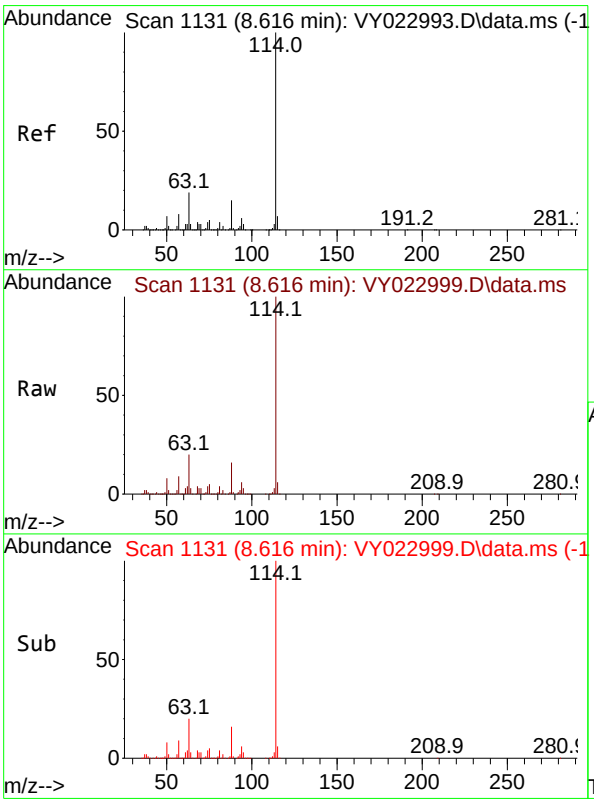
#33
1,2-Dichloroethane-d4
Concen: 50.315 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 65 Resp: 222189

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	107.4

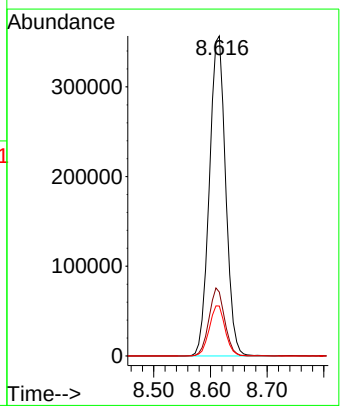


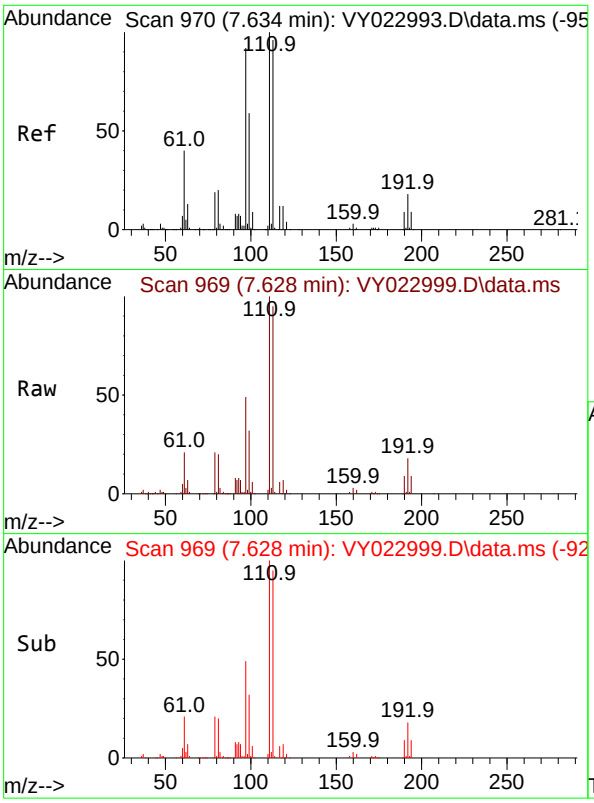


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:114 Resp: 709471

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	38.8
88	15.6	0.0	30.2



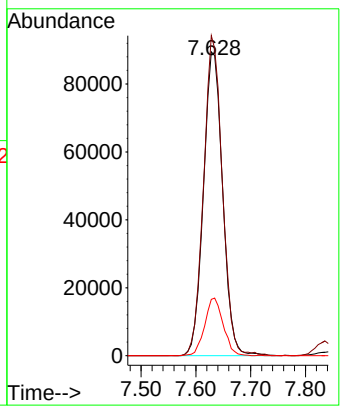


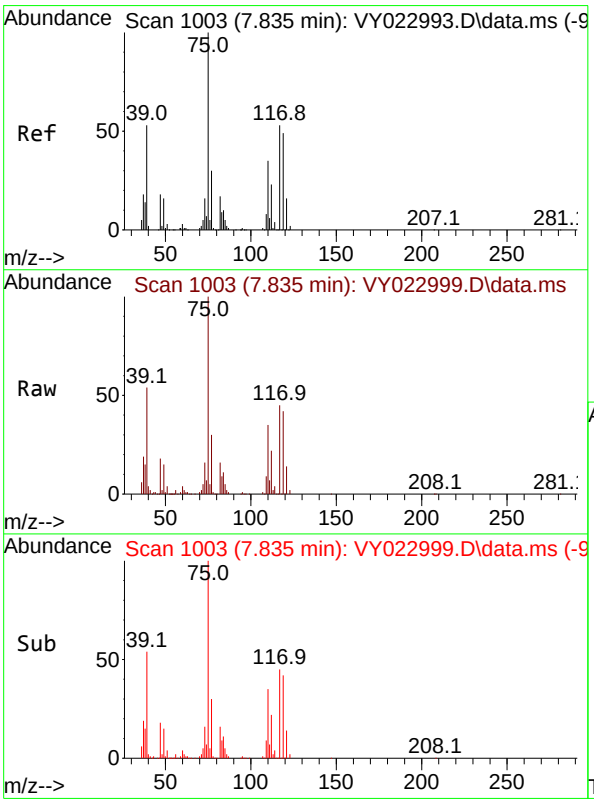
#35
Dibromofluoromethane
Concen: 48.271 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:113 Resp: 217239

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.2	124.8
192	18.3	15.3	22.9

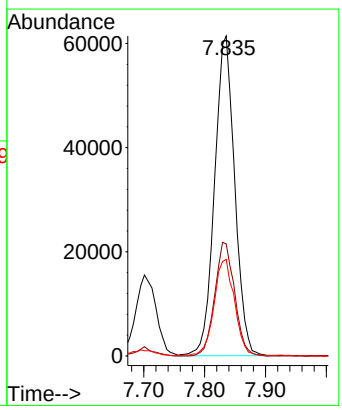


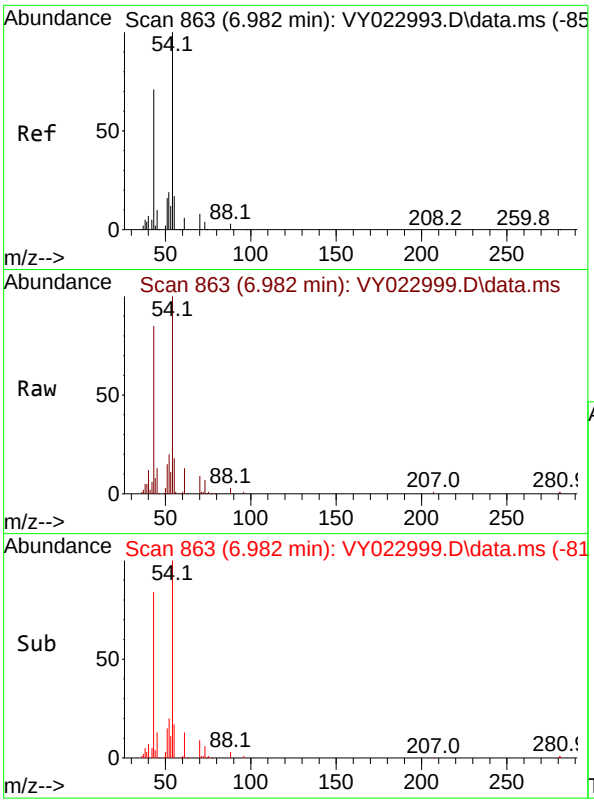


#36
1,1-Dichloropropene
Concen: 19.887 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 140975

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.3	51.9
77	30.9	24.6	37.0



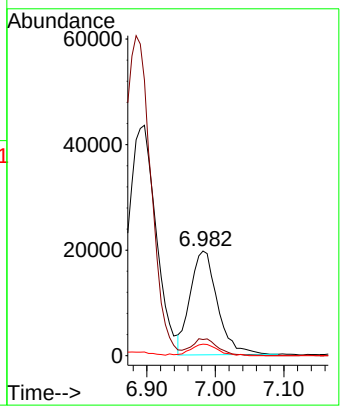


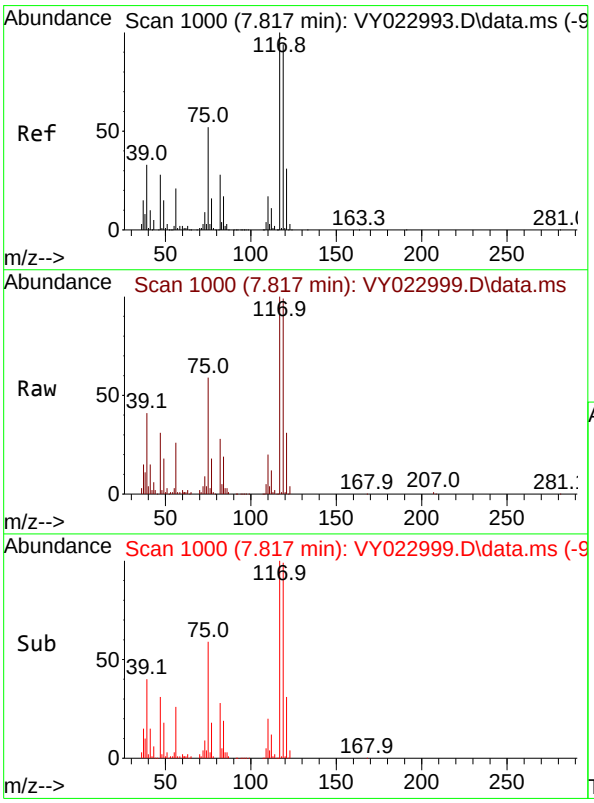
#37
Ethyl Acetate
Concen: 20.649 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 43 Resp: 54365

Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.6	17.4
70	11.4	8.5	12.7

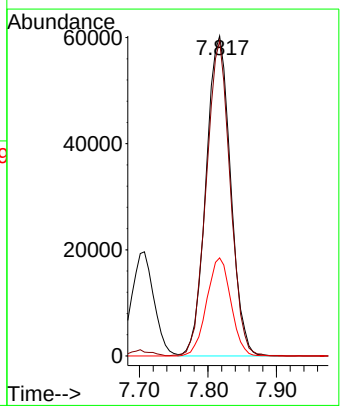


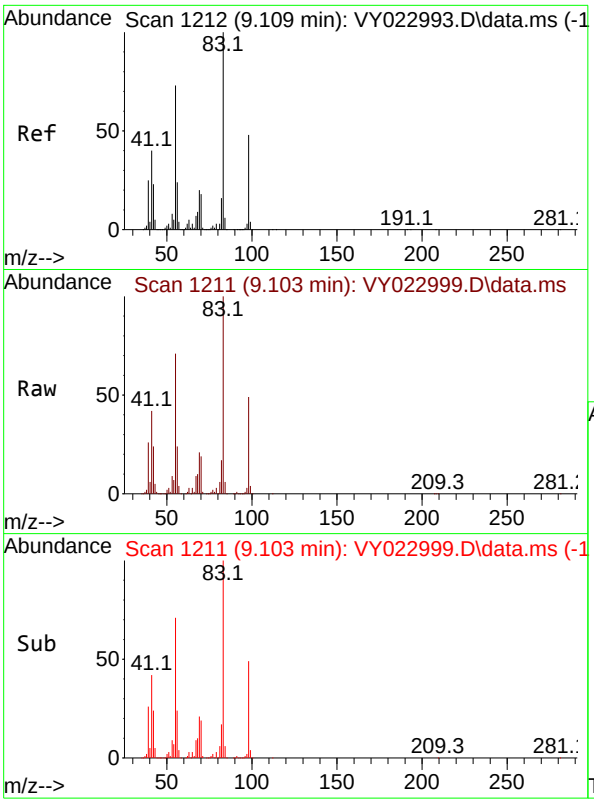


#38
Carbon Tetrachloride
Concen: 19.461 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:117 Resp: 149882

Ion	Ratio	Lower	Upper
117	100		
119	98.4	74.9	112.3
121	30.7	24.6	37.0



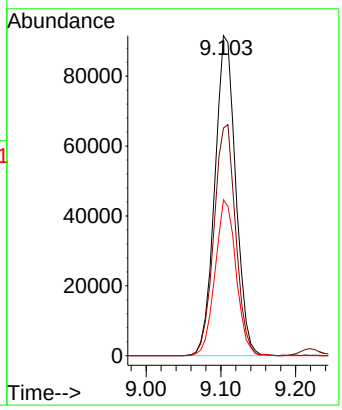


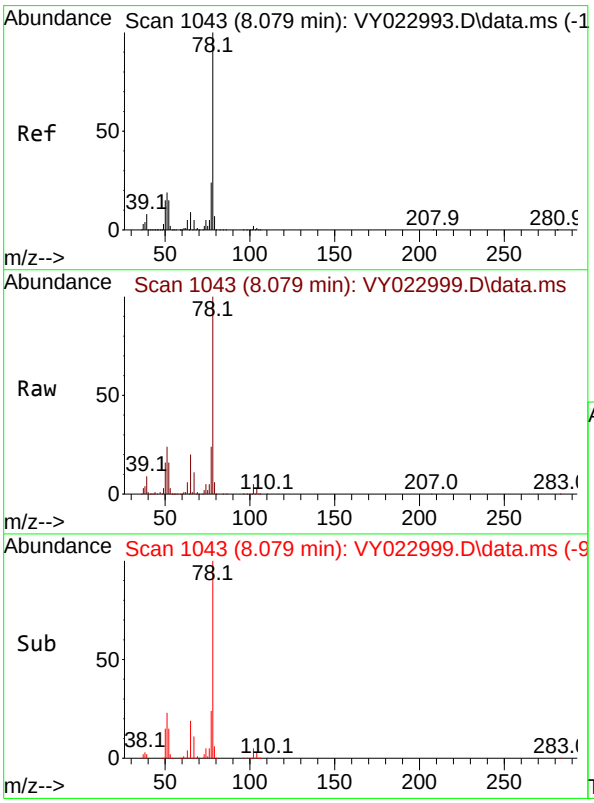
#39
Methylcyclohexane
Concen: 19.480 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 83 Resp: 178734

Ion	Ratio	Lower	Upper
83	100		
55	71.1	58.1	87.1
98	48.7	38.5	57.7

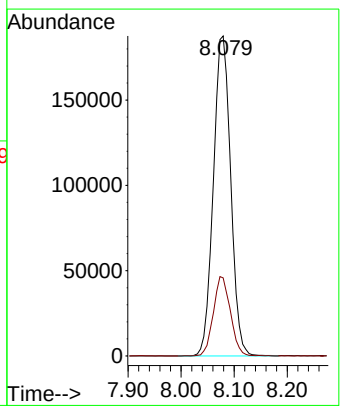


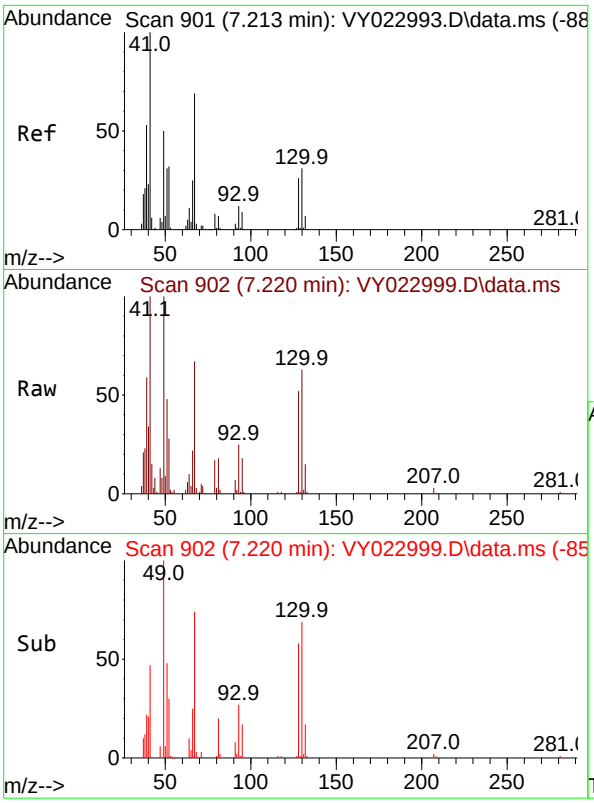


#40
Benzene
Concen: 19.939 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 78 Resp: 425586

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4



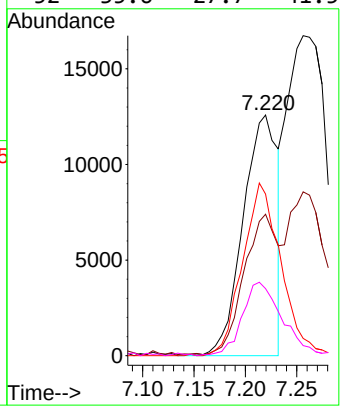


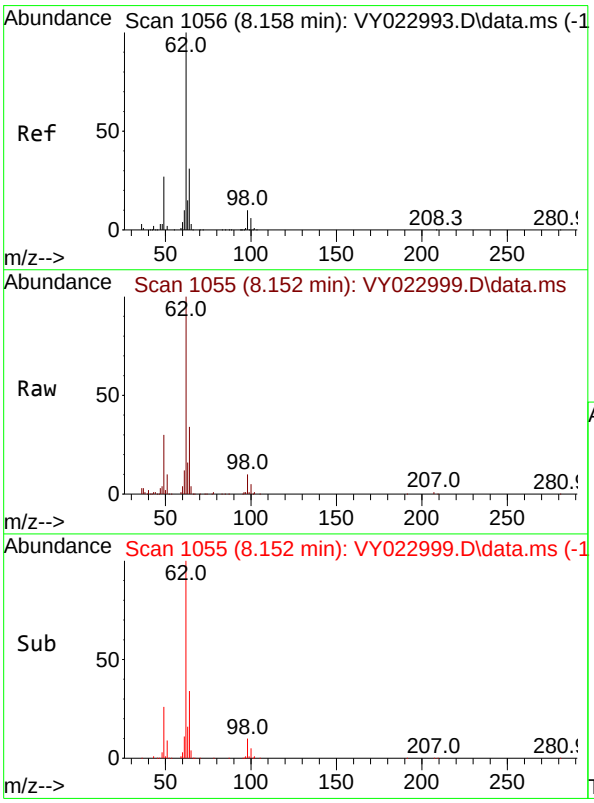
#41
Methacrylonitrile
Concen: 20.434 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 41 Resp: 29307

Ion	Ratio	Lower	Upper
41	100		
39	55.6	50.0	75.0
67	80.7	65.4	98.2
52	35.6	27.7	41.5

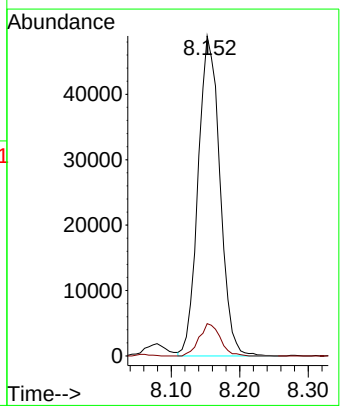


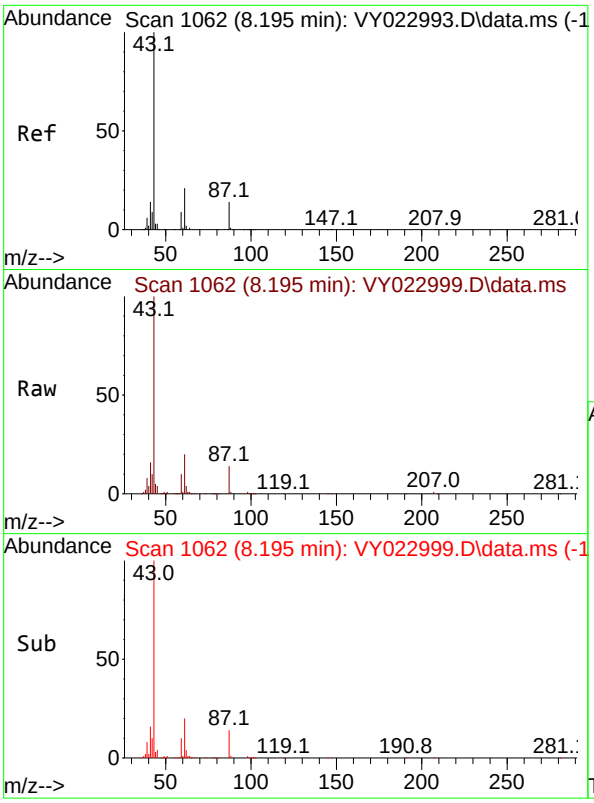


#42
1,2-Dichloroethane
Concen: 20.404 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 62 Resp: 108352

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0



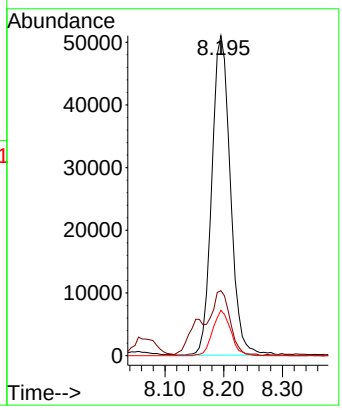


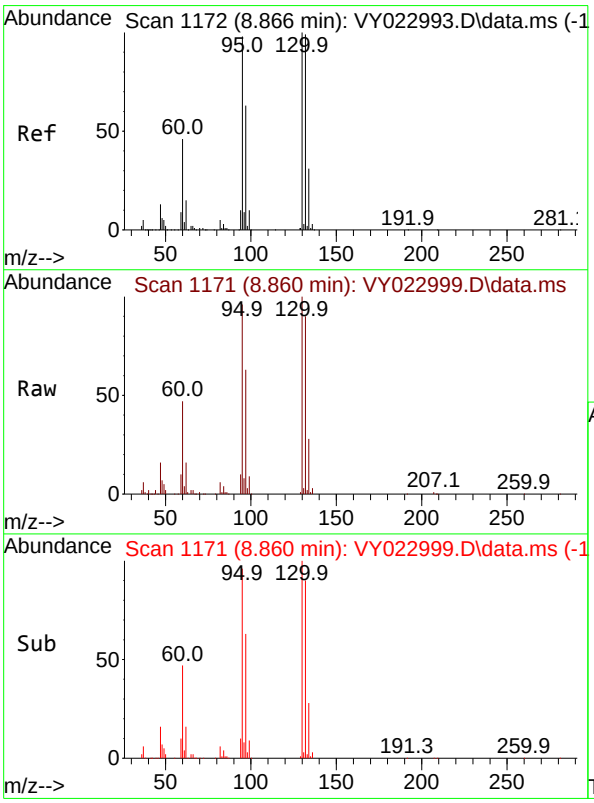
#43
Isopropyl Acetate
Concen: 21.370 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 43 Resp: 111756

Ion	Ratio	Lower	Upper
43	100		
61	19.8	25.0	37.4#
87	13.8	11.1	16.7

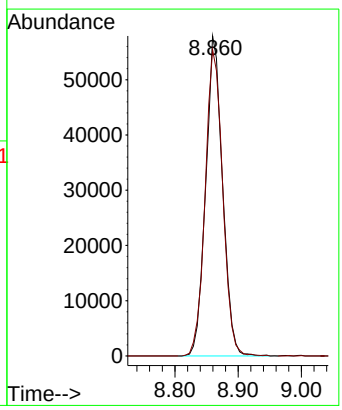


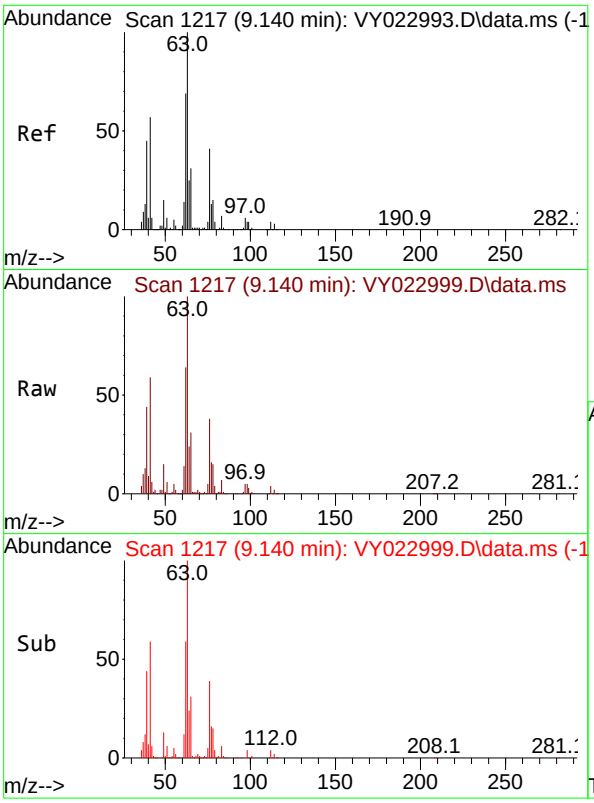


#44
Trichloroethene
Concen: 19.555 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:130 Resp: 107207

Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	195.8



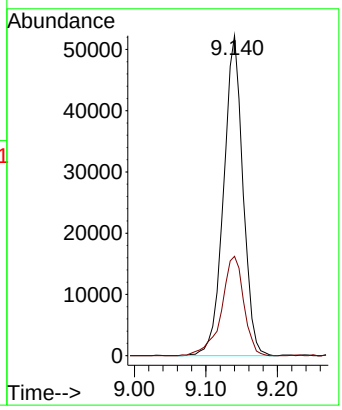


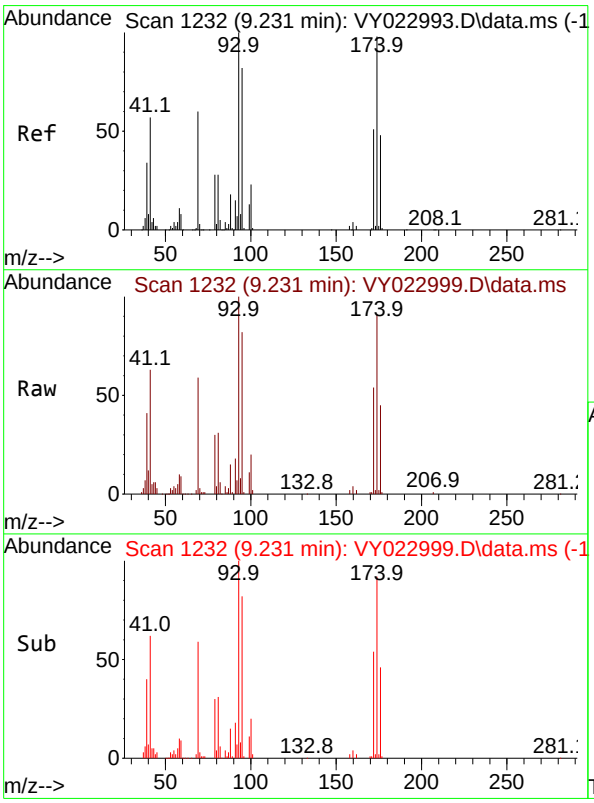
#45
1,2-Dichloropropane
Concen: 19.657 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 63 Resp: 97977

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

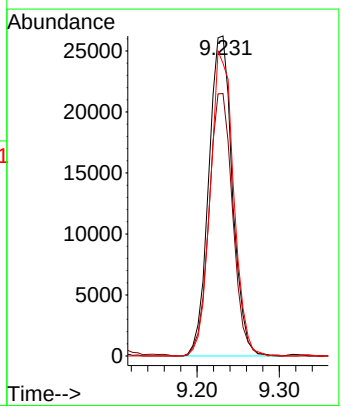


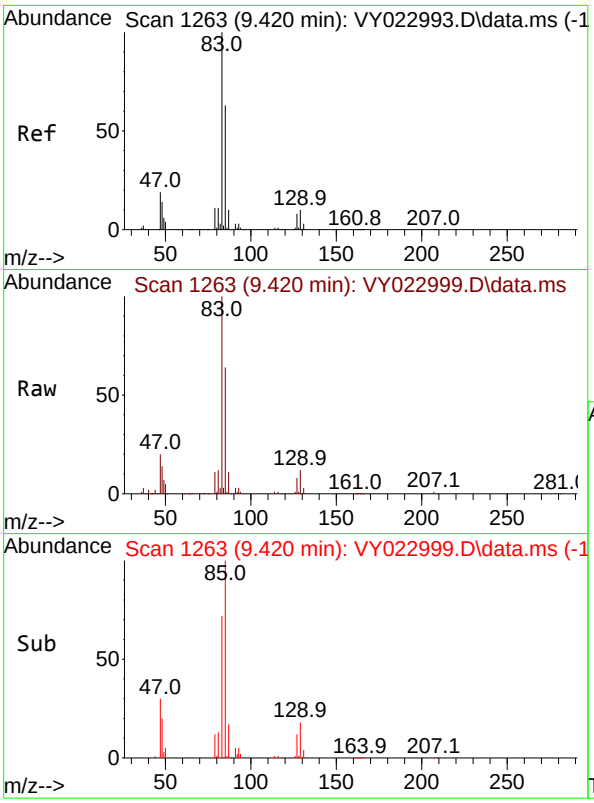


#46
Dibromomethane
Concen: 20.337 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 93 Resp: 52396

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.9	98.9
174	94.1	76.4	114.6



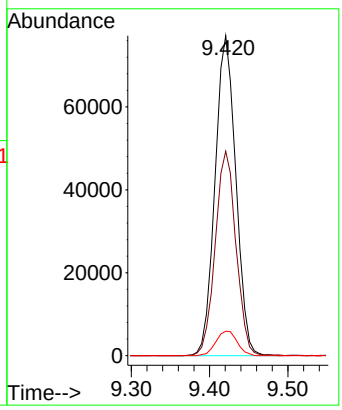


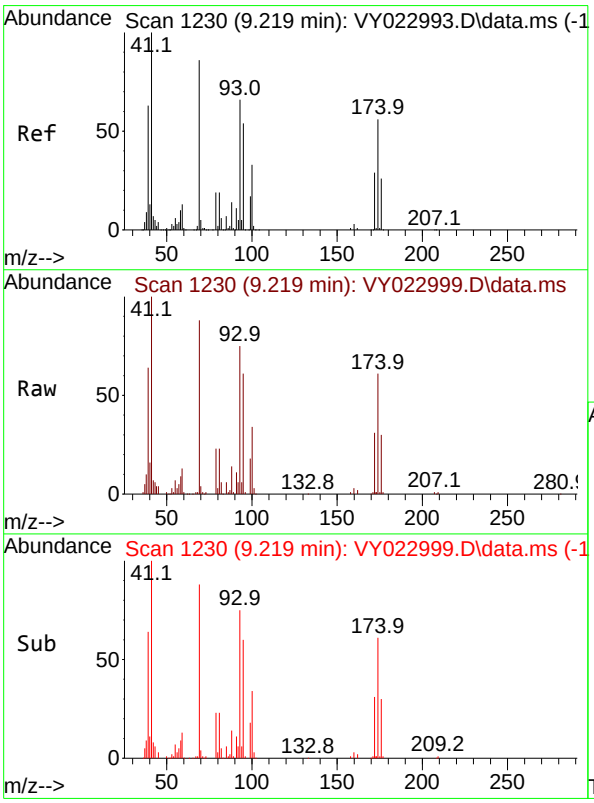
#47
Bromodichloromethane
Concen: 19.991 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 83 Resp: 142366

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.6	75.8
127	7.7	6.5	9.7

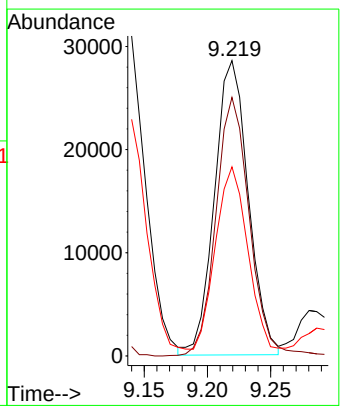


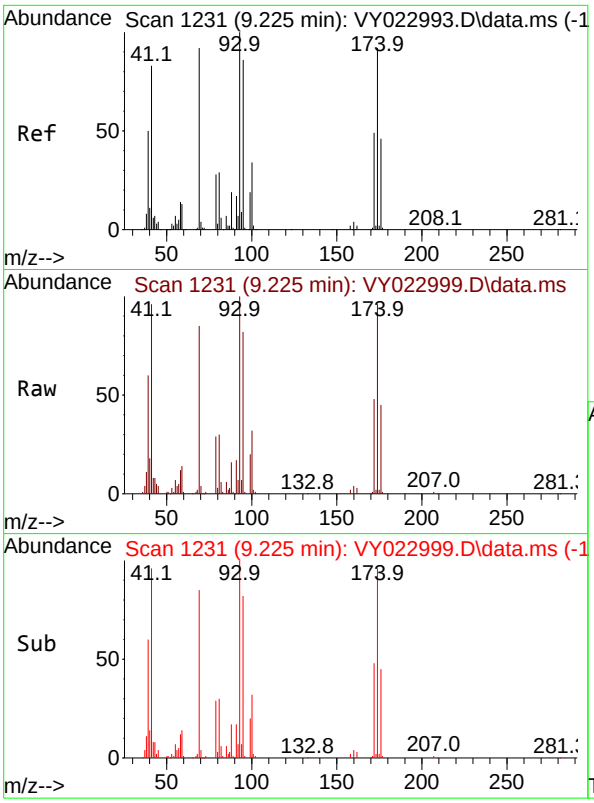


#48
Methyl methacrylate
Concen: 21.043 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 41 Resp: 53129

Ion	Ratio	Lower	Upper
41	100		
69	87.6	71.4	107.0
39	58.9	47.8	71.8



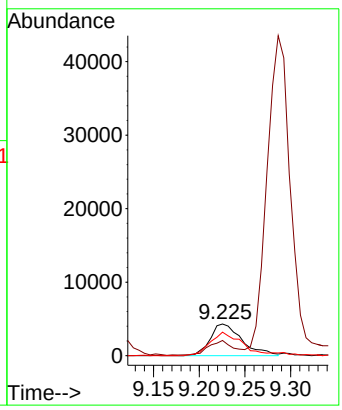


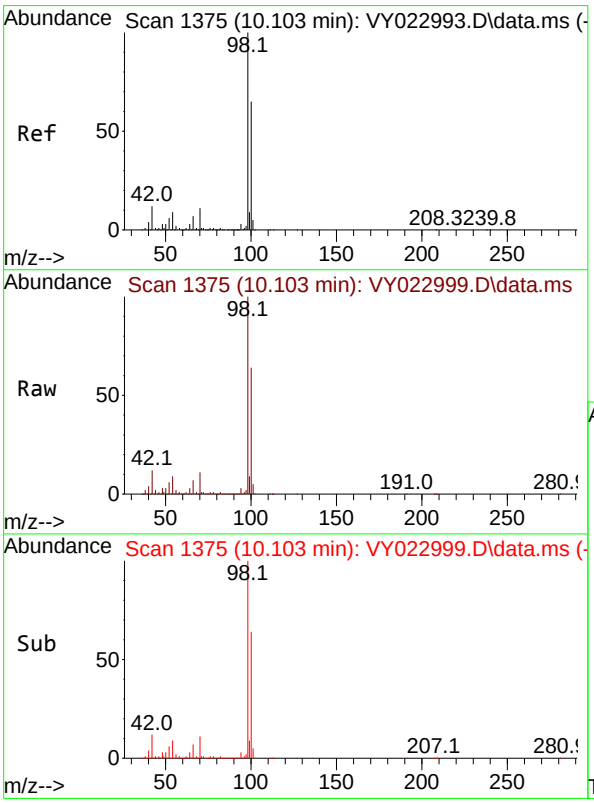
#49
1,4-Dioxane
Concen: 384.279 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 88 Resp: 10436

Ion	Ratio	Lower	Upper
88	100		
43	35.7	28.7	43.1
58	72.5	59.8	89.6

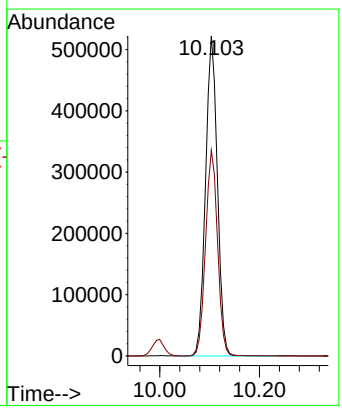


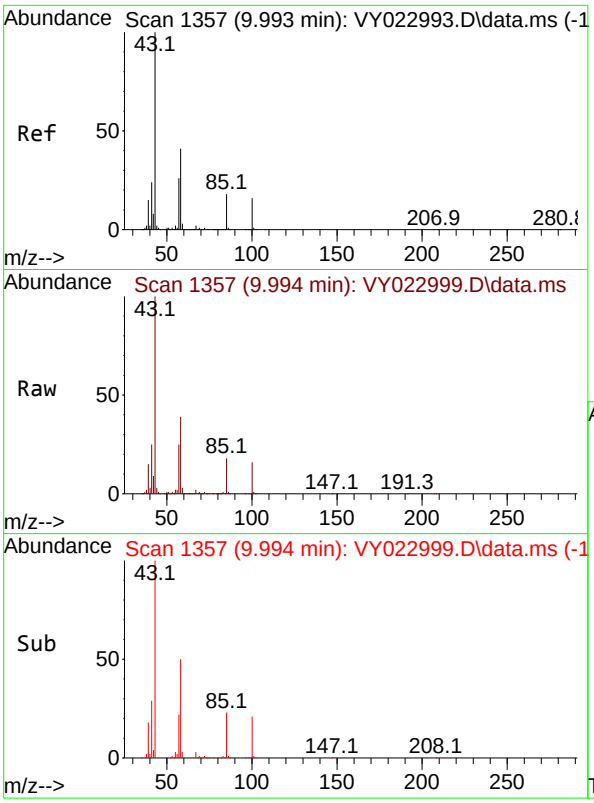


#50
Toluene-d8
Concen: 48.217 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 98 Resp: 860531

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2



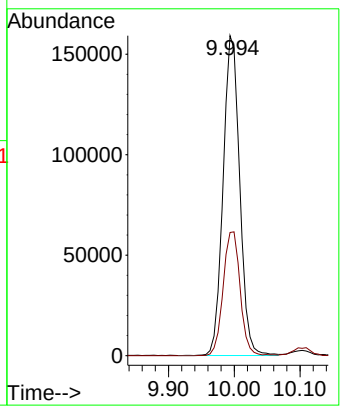


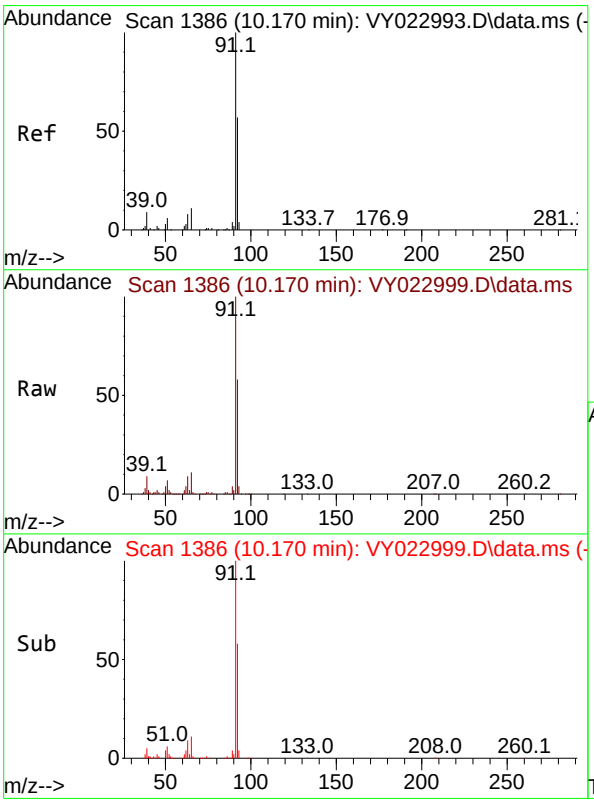
#51
4-Methyl-2-Pentanone
Concen: 105.379 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 43 Resp: 279720

Ion	Ratio	Lower	Upper
43	100		
58	39.9	32.5	48.7

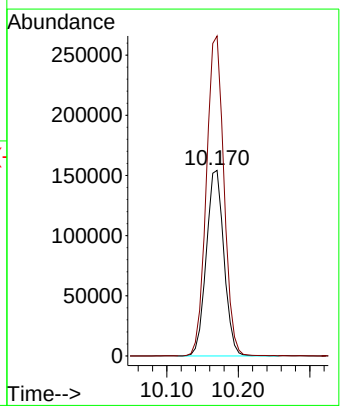


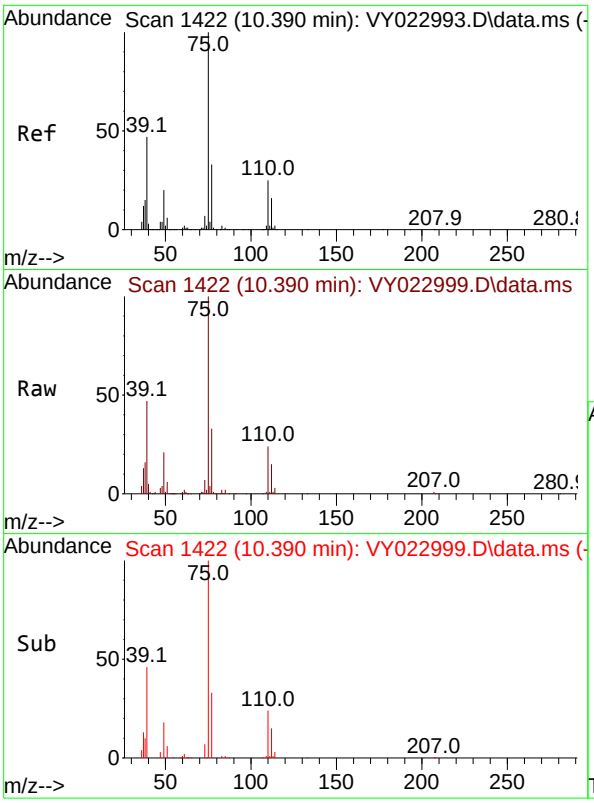


#52
Toluene
Concen: 19.888 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 92 Resp: 263920

Ion	Ratio	Lower	Upper
92	100		
91	171.7	137.8	206.6



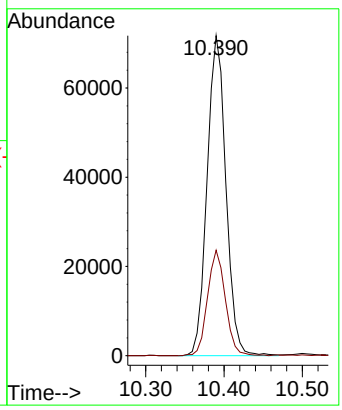


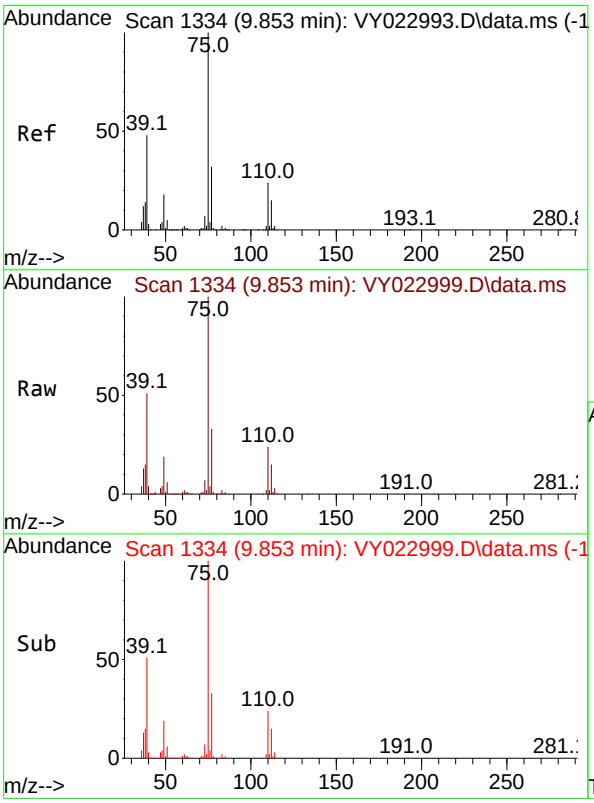
#53
t-1,3-Dichloropropene
Concen: 19.545 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 75 Resp: 119486

Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.4	39.6

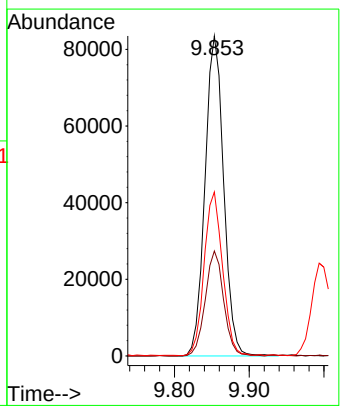


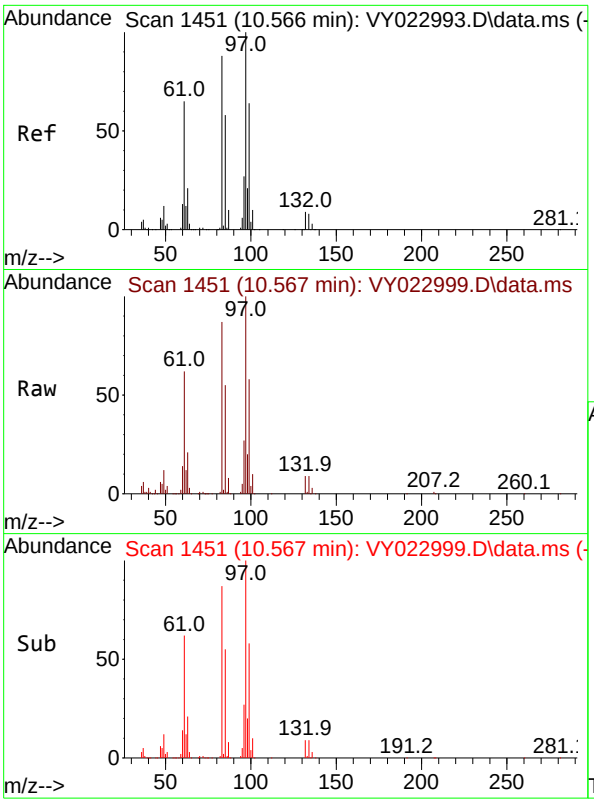


#54
cis-1,3-Dichloropropene
Concen: 19.663 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 144882

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.4	38.0
39	51.1	38.2	57.2



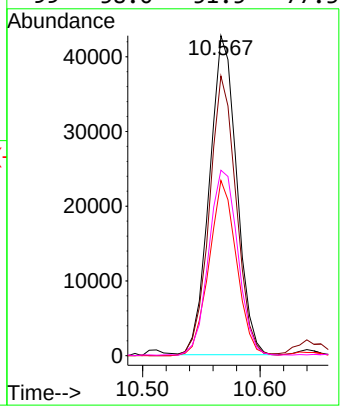


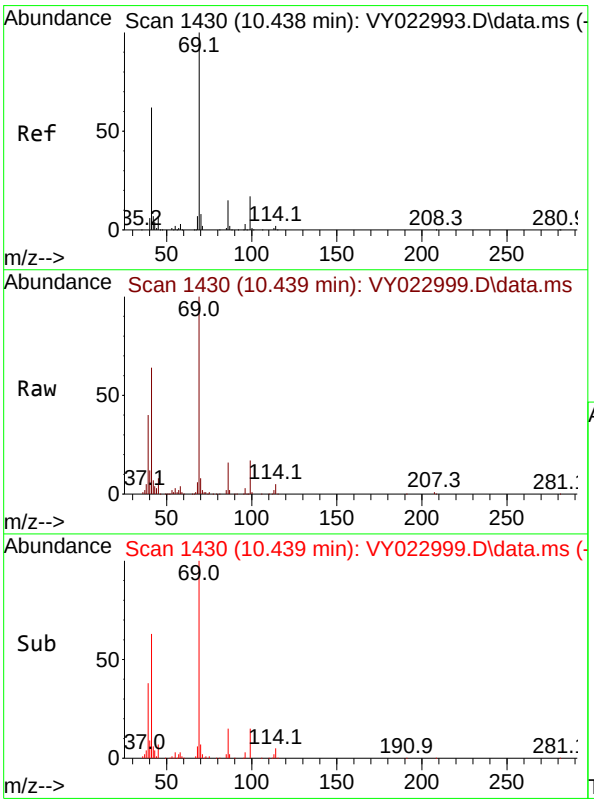
#55
1,1,2-Trichloroethane
Concen: 20.313 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 97 Resp: 68786

Ion	Ratio	Lower	Upper
97	100		
83	87.4	70.2	105.2
85	54.8	46.2	69.2
99	58.0	51.5	77.3

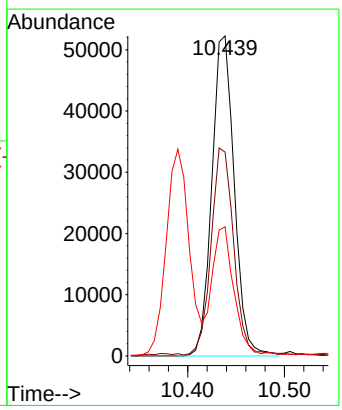


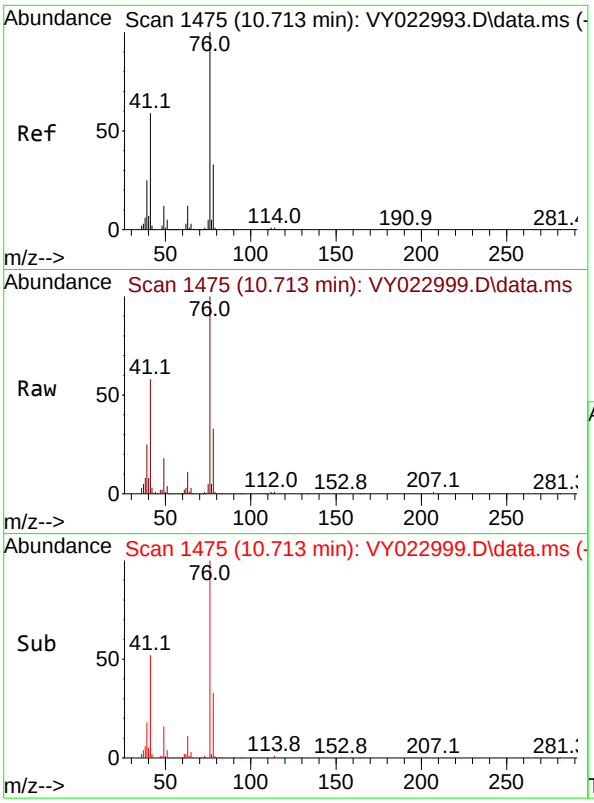


#56
Ethyl methacrylate
Concen: 19.906 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 69 Resp: 84145

Ion	Ratio	Lower	Upper
69	100		
41	65.1	51.0	76.4
39	39.5	30.6	46.0



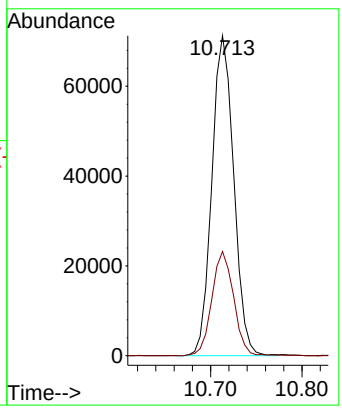


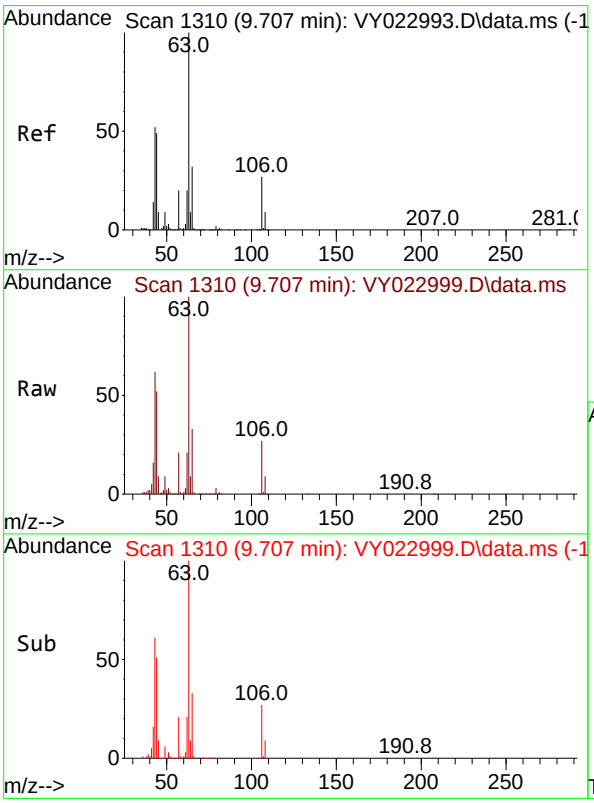
#57
1,3-Dichloropropane
Concen: 20.264 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 76 Resp: 118536

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.6	39.8

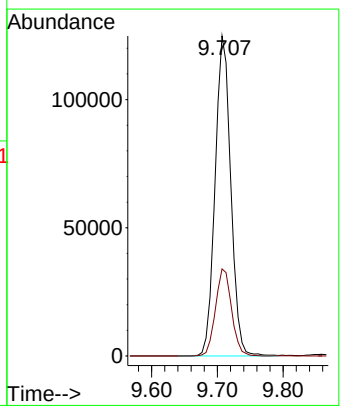


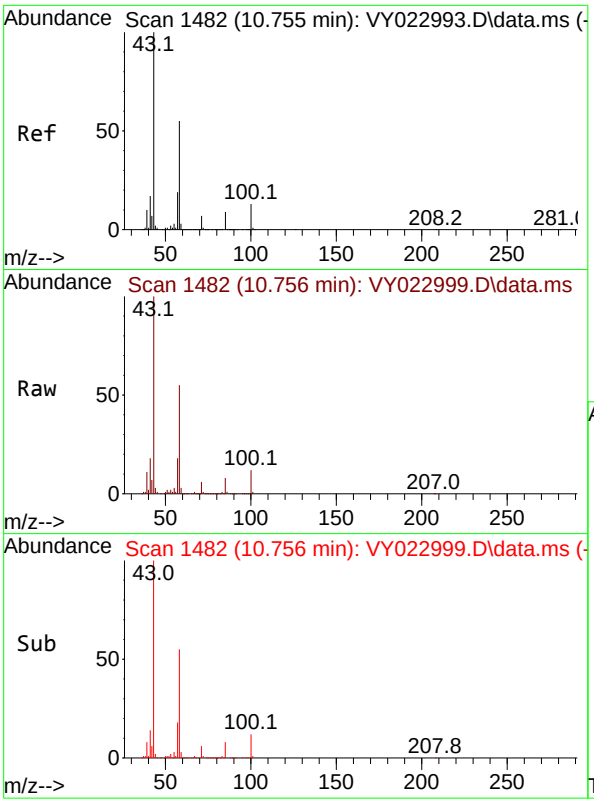


#58
2-Chloroethyl Vinyl ether
Concen: 100.158 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 63 Resp: 207251

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.6	33.8



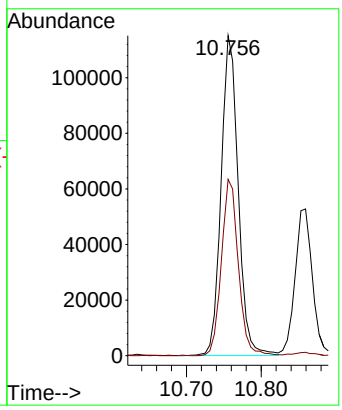


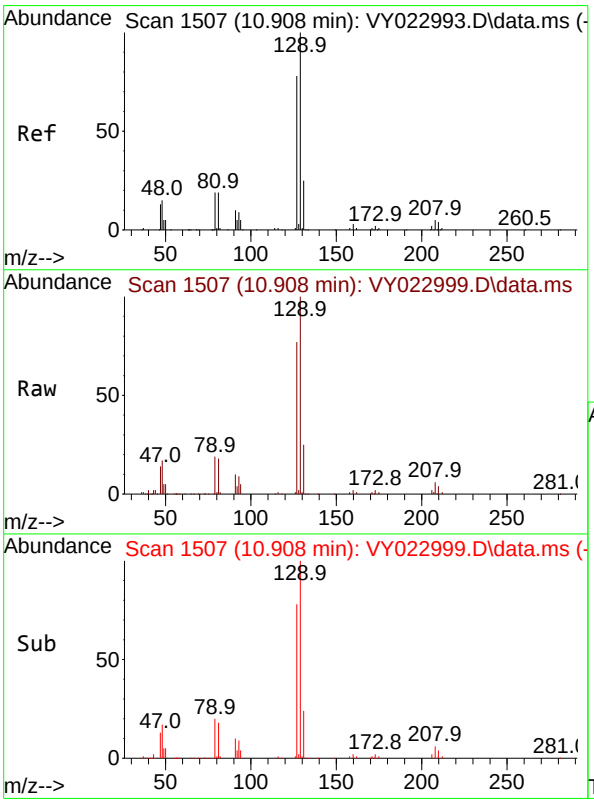
#59
2-Hexanone
Concen: 104.630 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 43 Resp: 182559

Ion	Ratio	Lower	Upper
43	100		
58	54.8	28.1	84.3

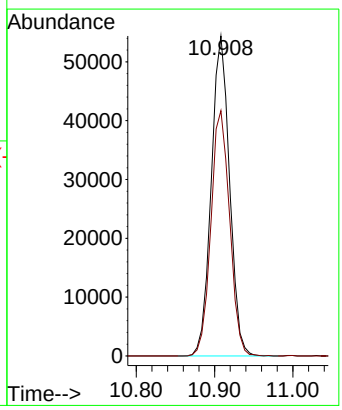


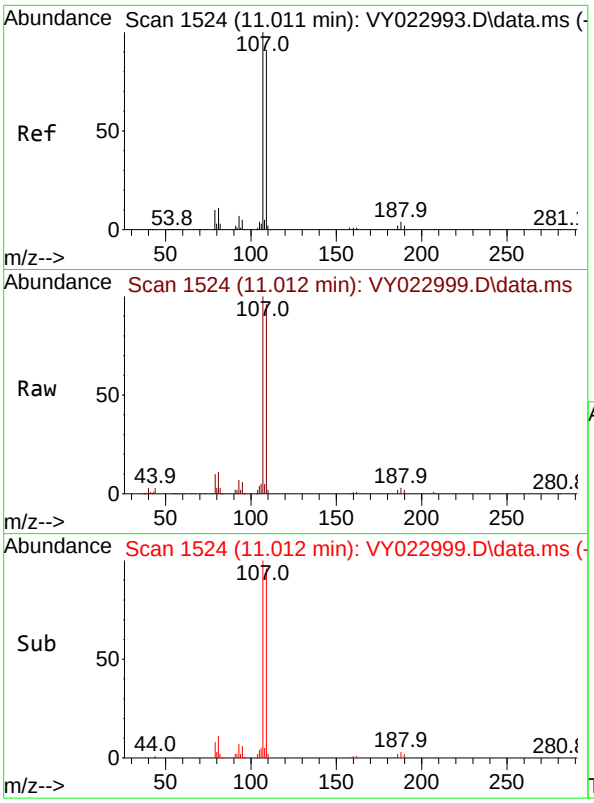


#60
Dibromochloromethane
Concen: 19.911 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:129 Resp: 88291

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.7	116.1



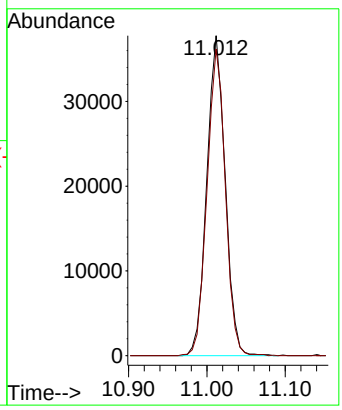


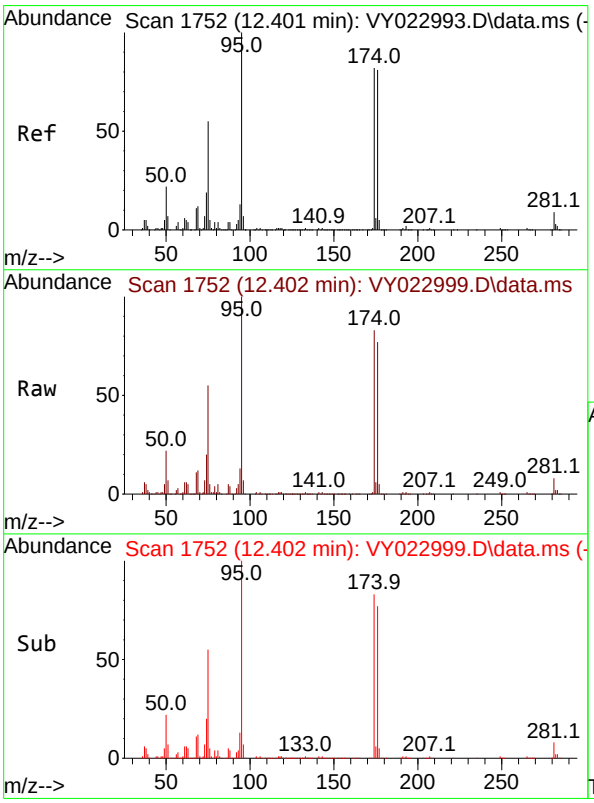
#61
1,2-Dibromoethane
Concen: 20.010 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:107 Resp: 61533

Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.1	112.7

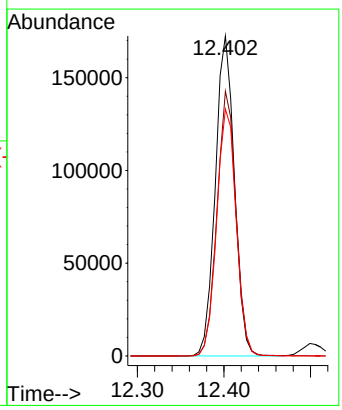


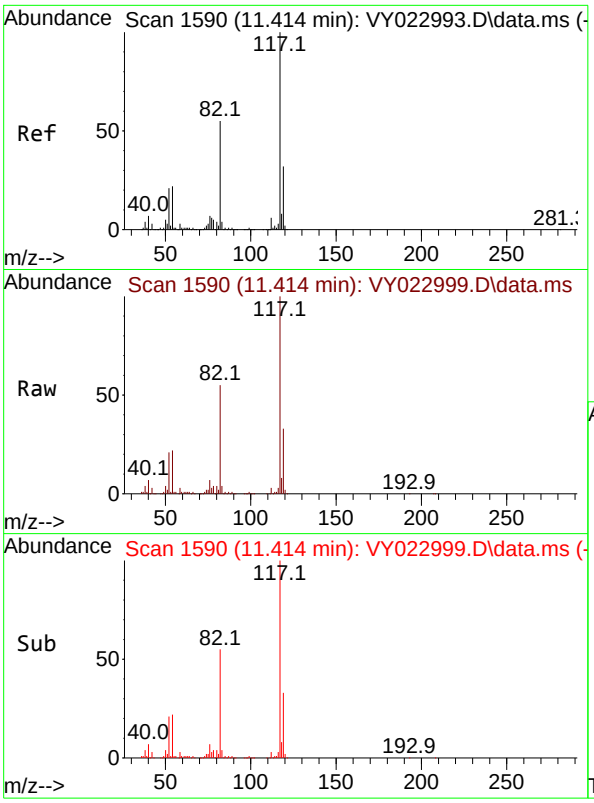


#62
4-Bromofluorobenzene
Concen: 46.955 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 95 Resp: 263791

Ion	Ratio	Lower	Upper
95	100		
174	82.4	0.0	170.8
176	78.8	0.0	163.6



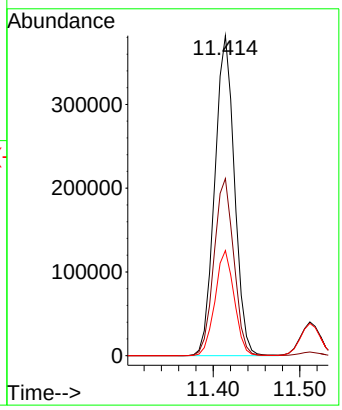


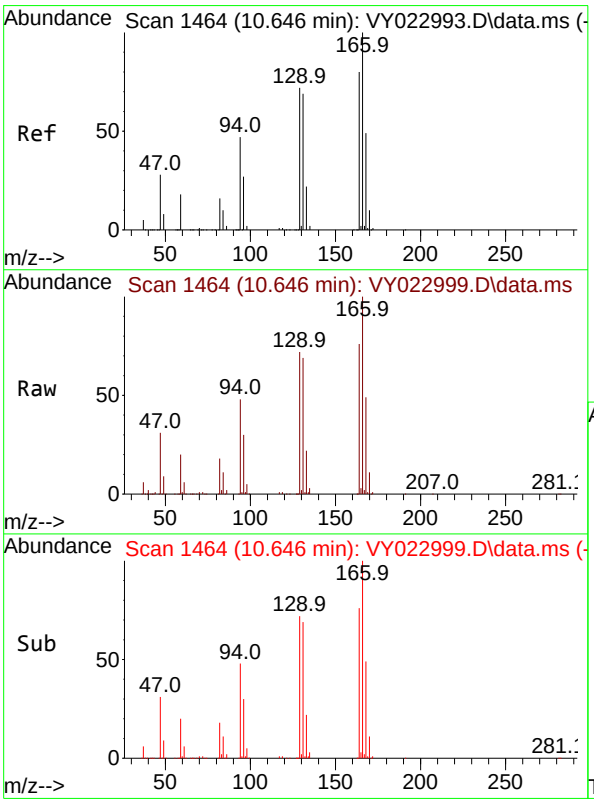
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:117 Resp: 602809

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.3	66.5
119	32.8	25.8	38.8

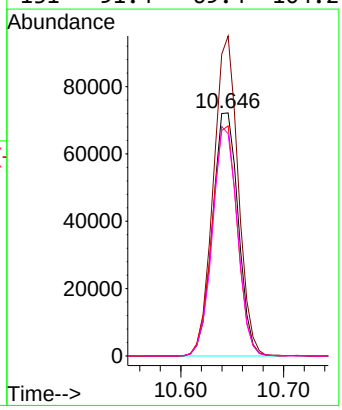


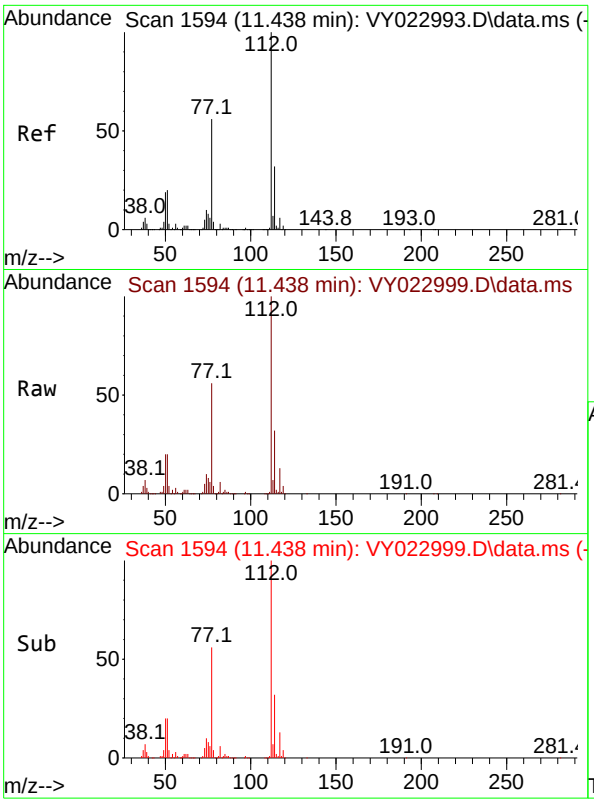


#64
Tetrachloroethene
Concen: 20.315 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:164 Resp: 125172

Ion	Ratio	Lower	Upper
164	100		
166	131.6	100.2	150.2
129	94.6	71.7	107.5
131	91.4	69.4	104.2



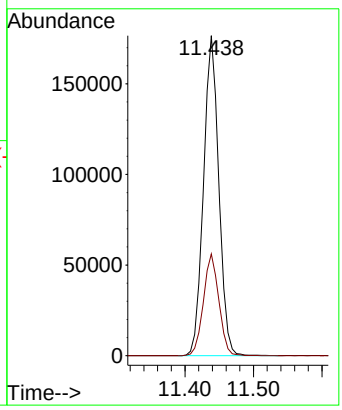


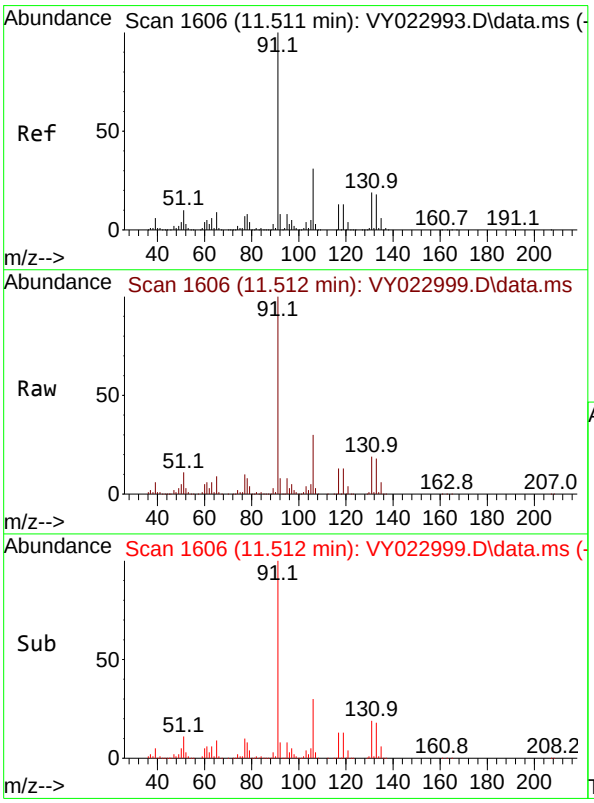
#65
Chlorobenzene
Concen: 19.277 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:112 Resp: 274210

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2

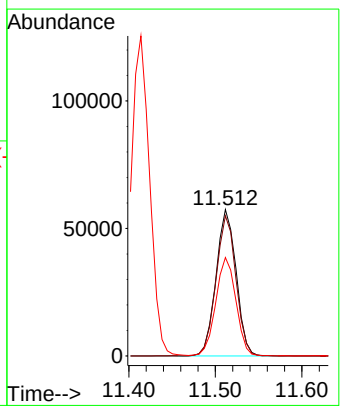


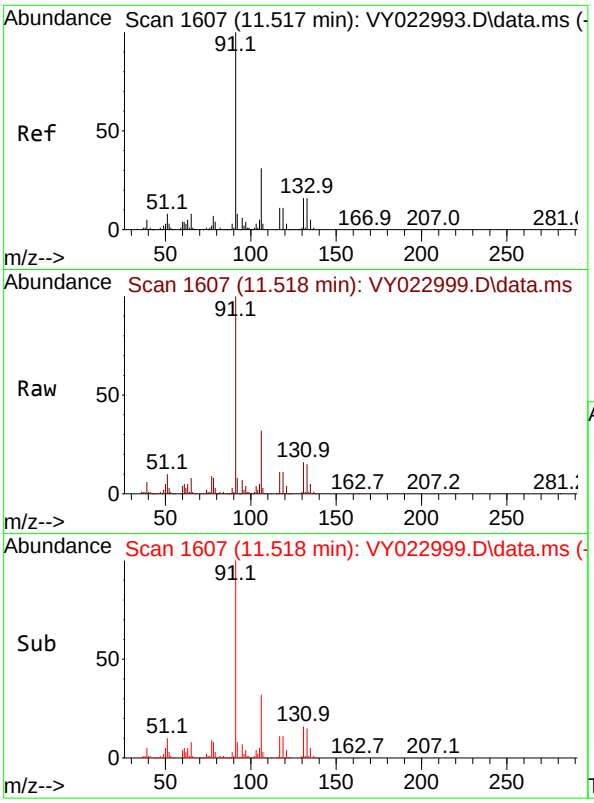


#66
1,1,1,2-Tetrachloroethane
Concen: 19.062 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:131 Resp: 92484

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.8	143.3
119	67.6	33.3	99.8



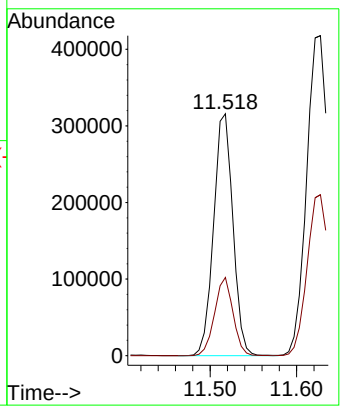


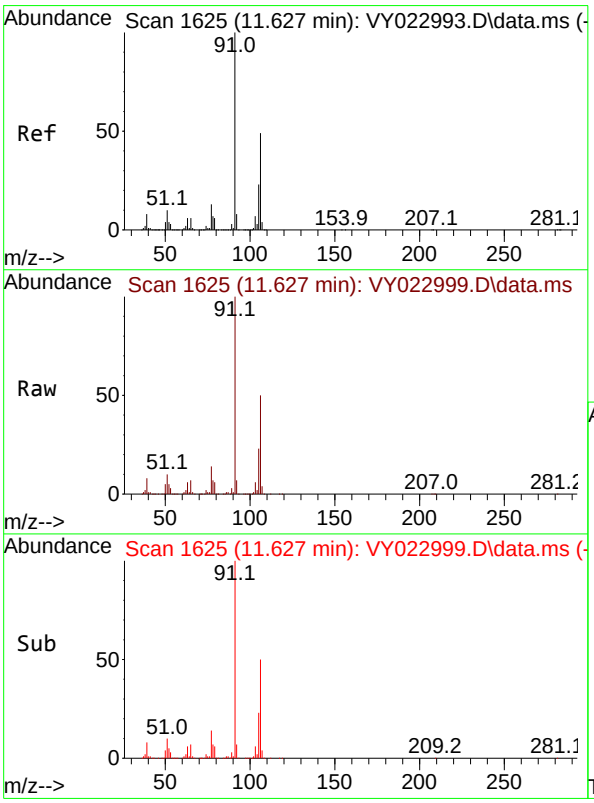
#67
Ethyl Benzene
Concen: 19.406 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 91 Resp: 489285

Ion	Ratio	Lower	Upper
91	100		
106	32.3	24.6	37.0

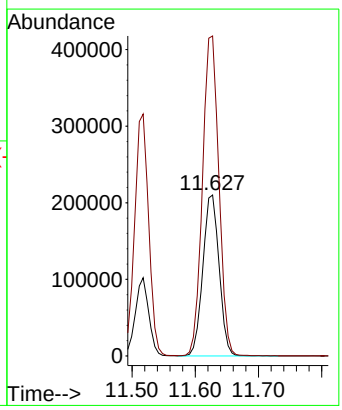


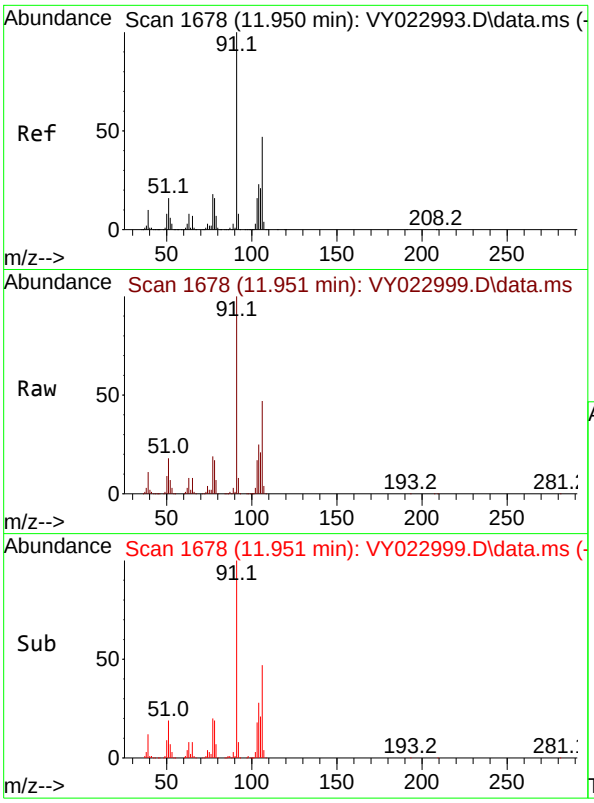


#68
m/p-Xylenes
Concen: 38.869 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:106 Resp: 375895

Ion	Ratio	Lower	Upper
106	100		
91	200.5	159.8	239.8



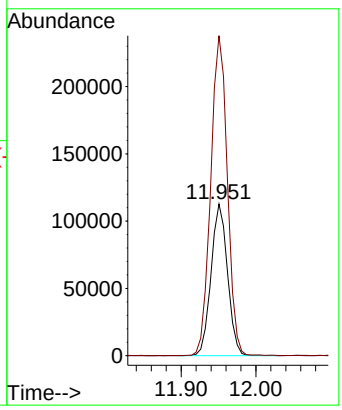


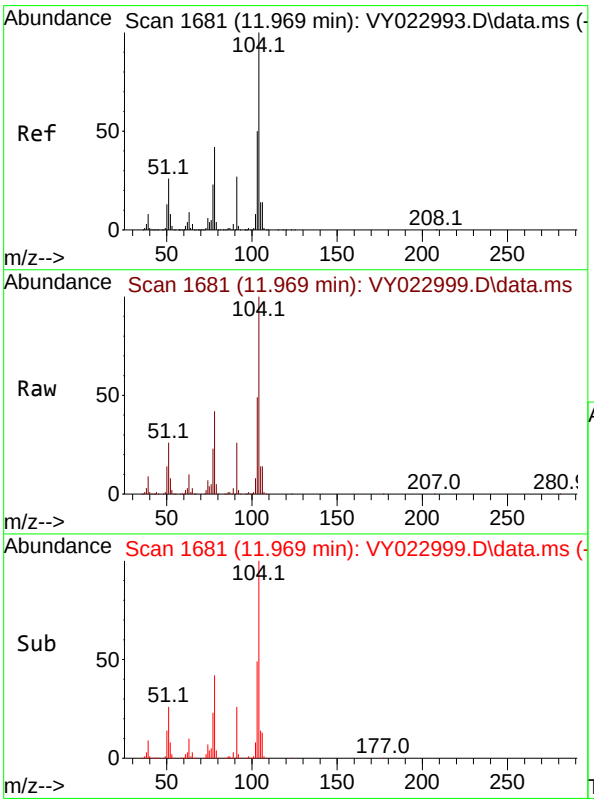
#69
o-Xylene
Concen: 19.161 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:106 Resp: 171968

Ion	Ratio	Lower	Upper
106	100		
91	214.2	106.3	318.8

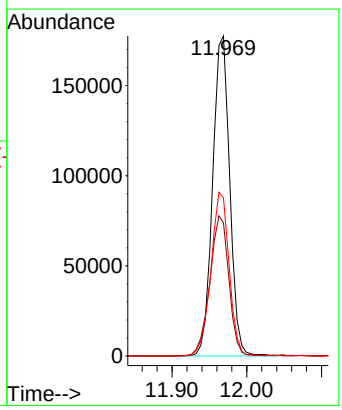


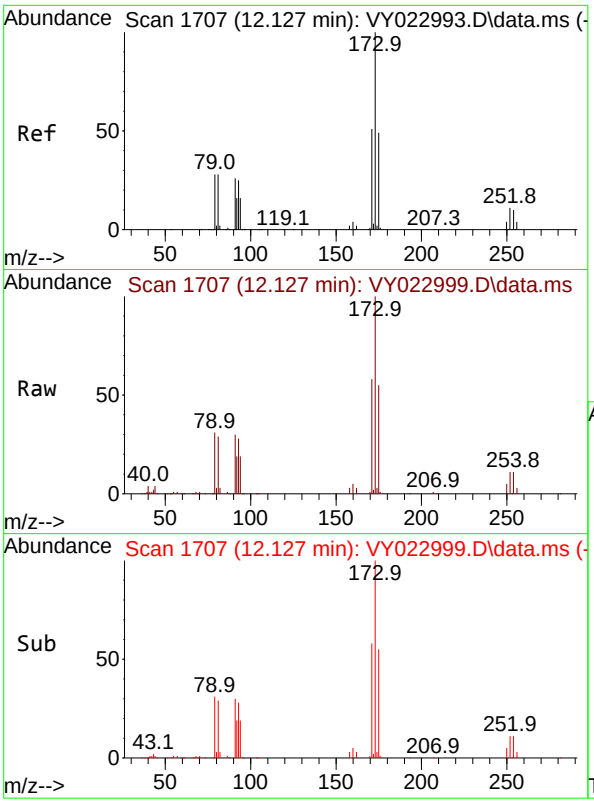


#70
Styrene
Concen: 19.177 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:104 Resp: 281919

Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.0	58.6
103	54.6	43.7	65.5



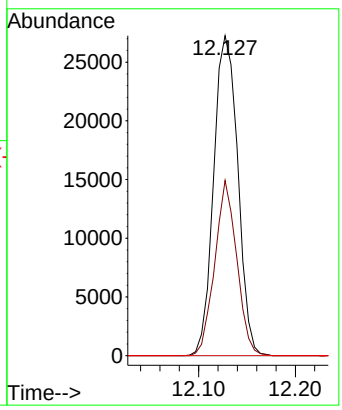


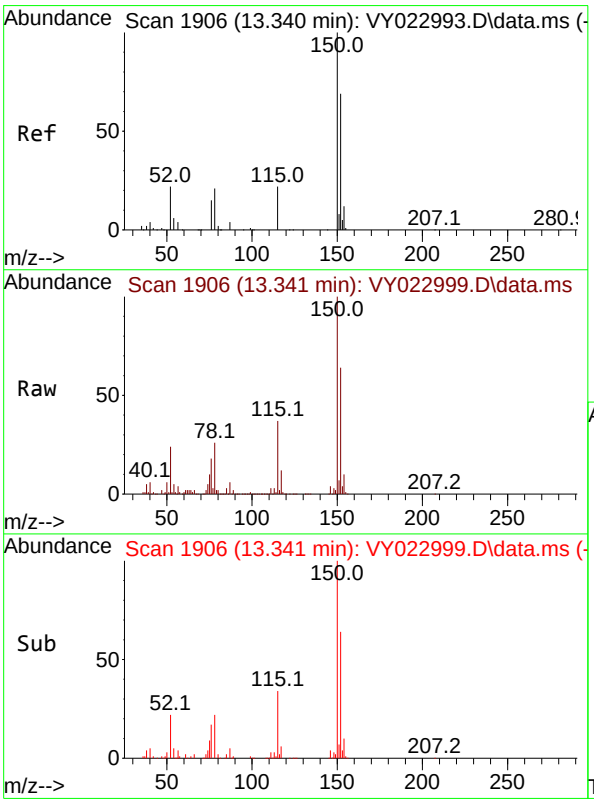
#71
Bromoform
Concen: 19.165 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:173 Resp: 47203

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.6	73.8
254	0.0	0.2	0.2#

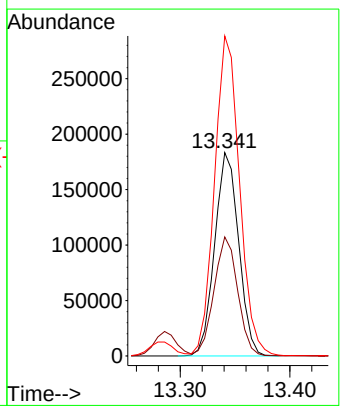


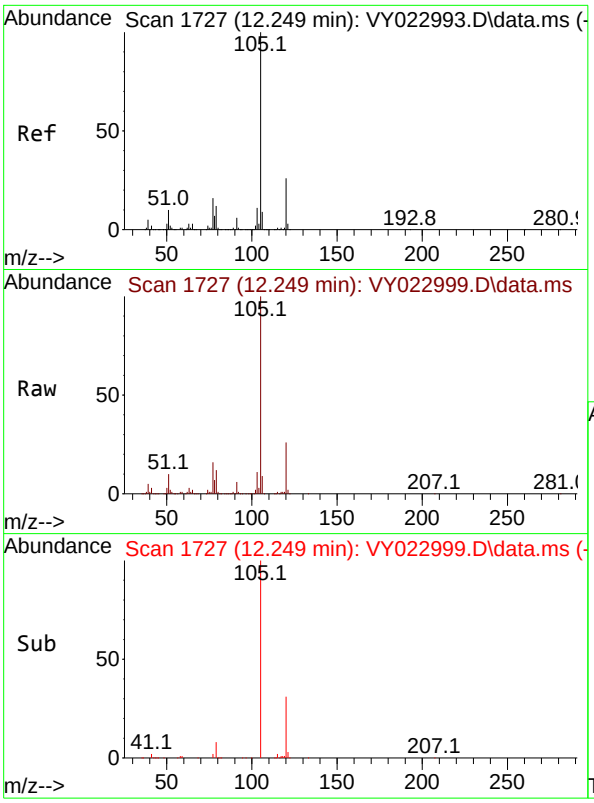


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.341 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:152 Resp: 278729

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	163.9	0.0	350.0



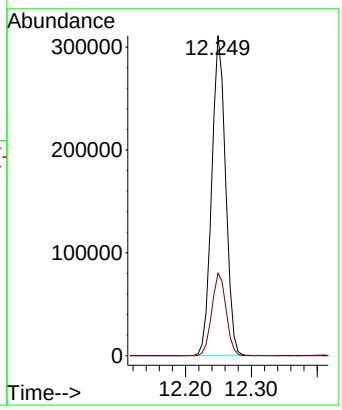


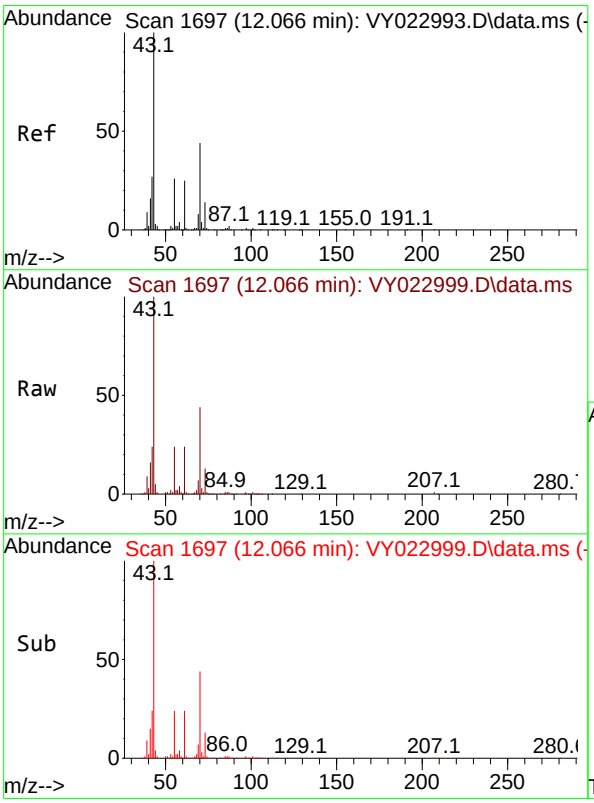
#73
Isopropylbenzene
Concen: 19.298 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:105 Resp: 456033

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6

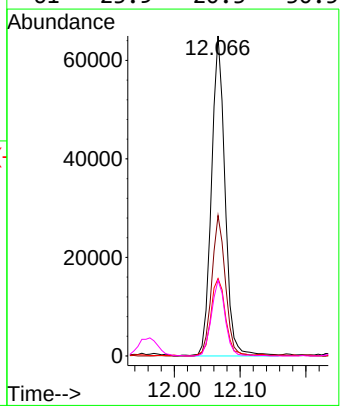


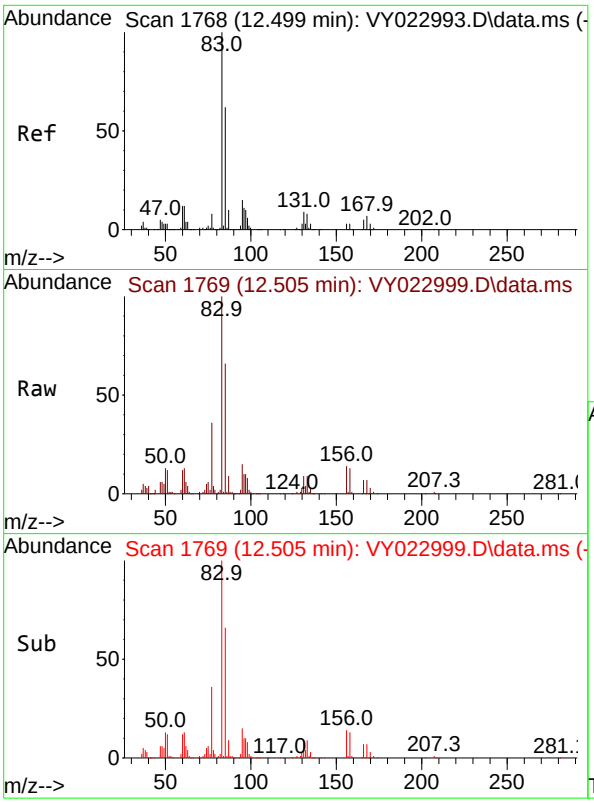


#74
N-amyl acetate
Concen: 20.983 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 43 Resp: 93486

Ion	Ratio	Lower	Upper
43	100		
70	43.7	36.2	54.2
55	26.2	20.9	31.3
61	23.9	20.3	30.5



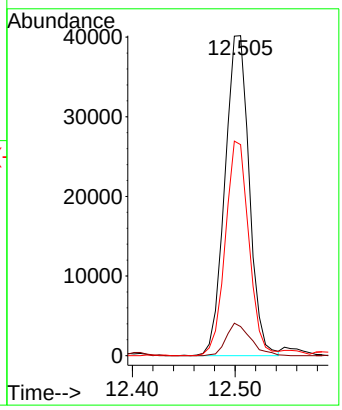


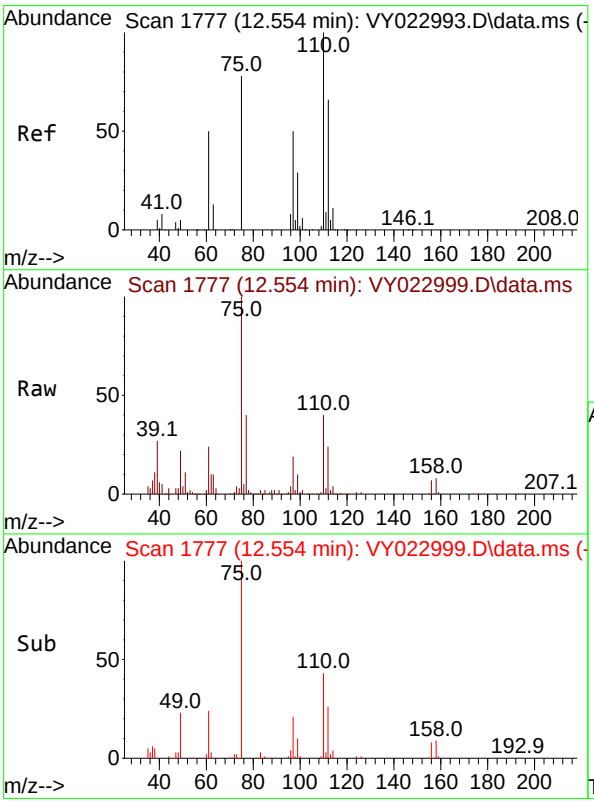
#75
1,1,2,2-Tetrachloroethane
Concen: 19.356 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 83 Resp: 66193

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	65.0	31.9	95.7

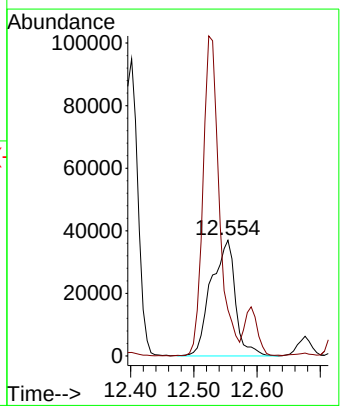


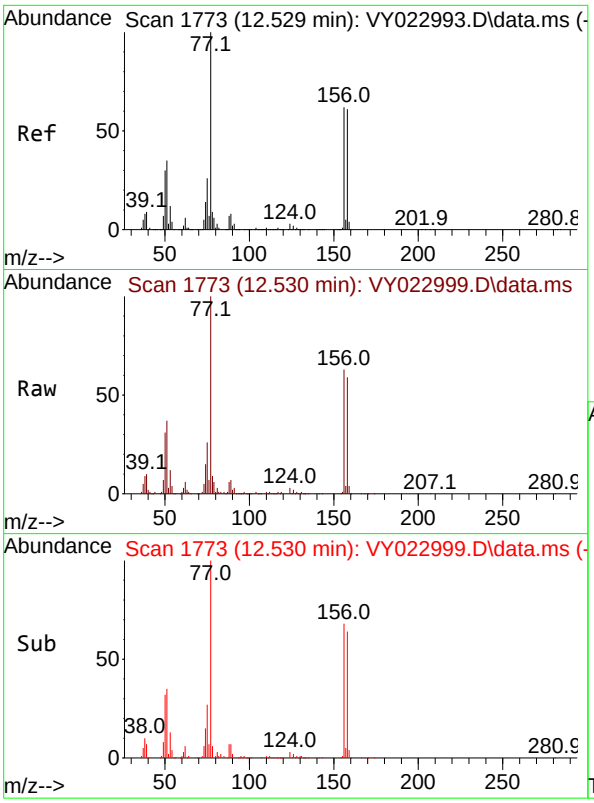


#76
1,2,3-Trichloropropane
Concen: 28.373 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 98545

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



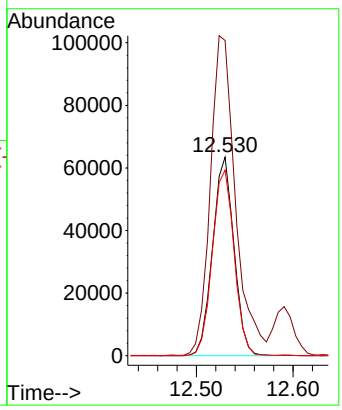


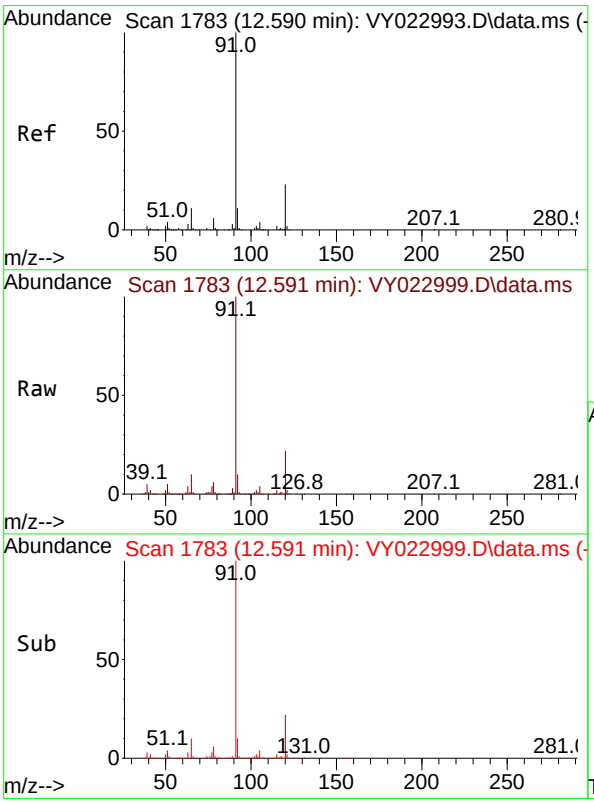
#77
Bromobenzene
Concen: 19.003 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:156 Resp: 97397

Ion	Ratio	Lower	Upper
156	100		
77	189.9	92.0	276.1
158	95.4	48.6	145.9

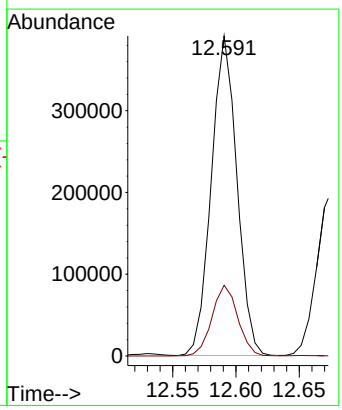


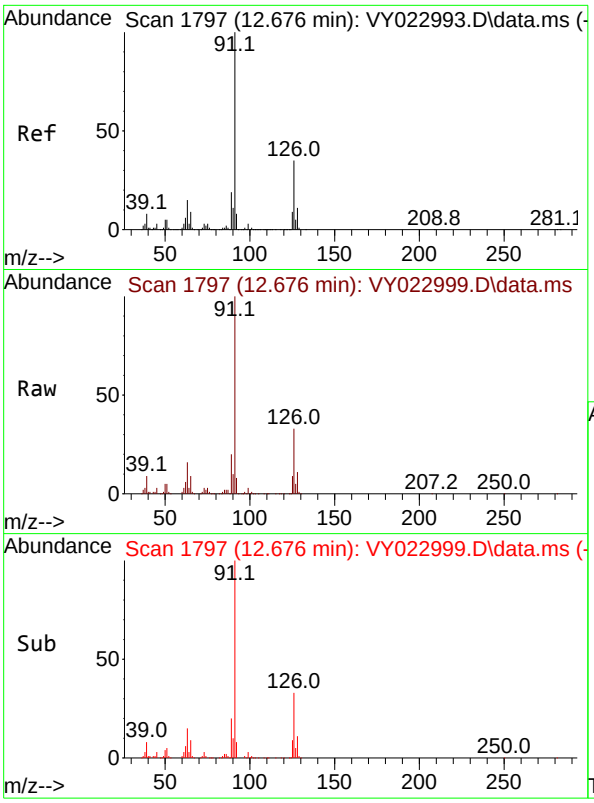


#78
n-propylbenzene
Concen: 19.583 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 91 Resp: 551100

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.3	33.8



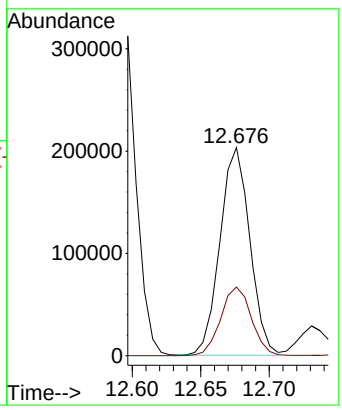


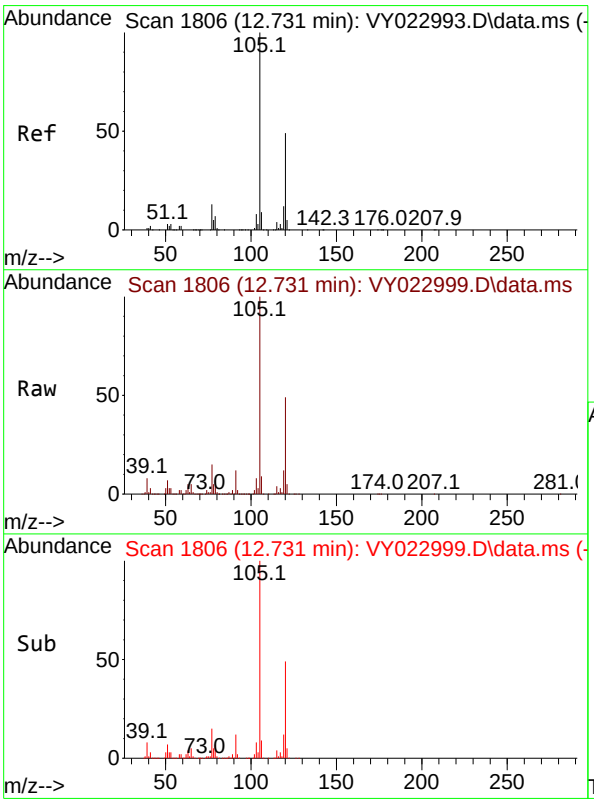
#79
2-Chlorotoluene
Concen: 19.442 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 91 Resp: 307709

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.0	50.9

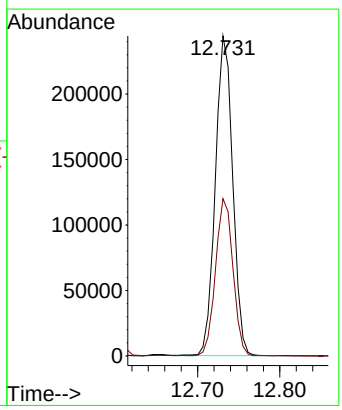


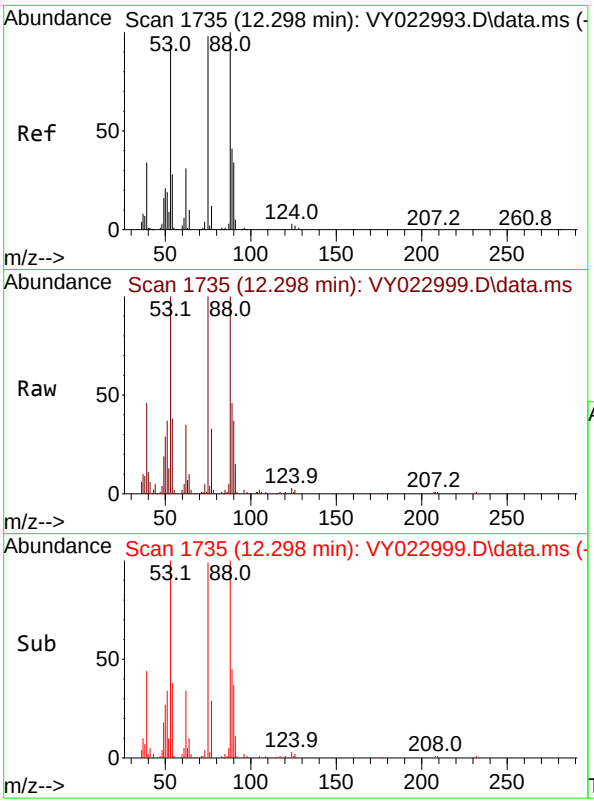


#80
1,3,5-Trimethylbenzene
Concen: 19.246 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:105 Resp: 358710

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.6	73.8



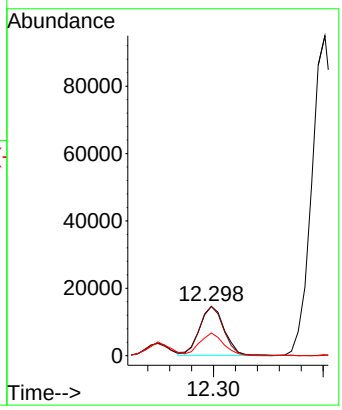


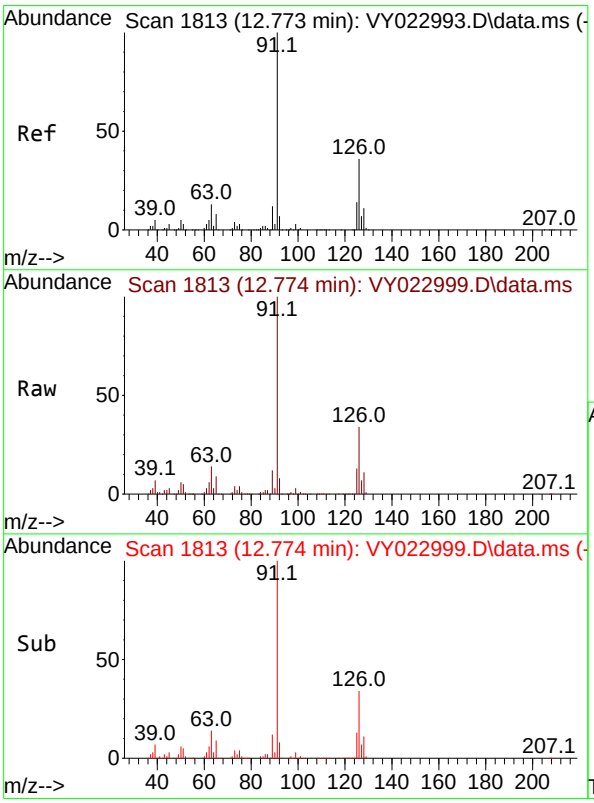
#81
trans-1,4-Dichloro-2-butene
Concen: 19.396 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 75 Resp: 22618

Ion	Ratio	Lower	Upper
75	100		
53	99.5	76.1	114.1
89	44.8	36.1	54.1

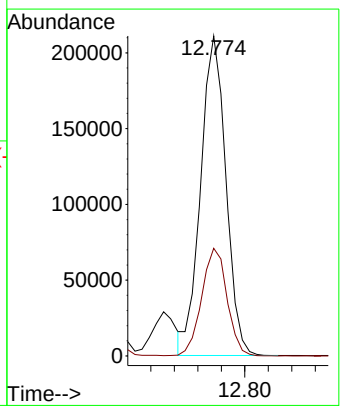


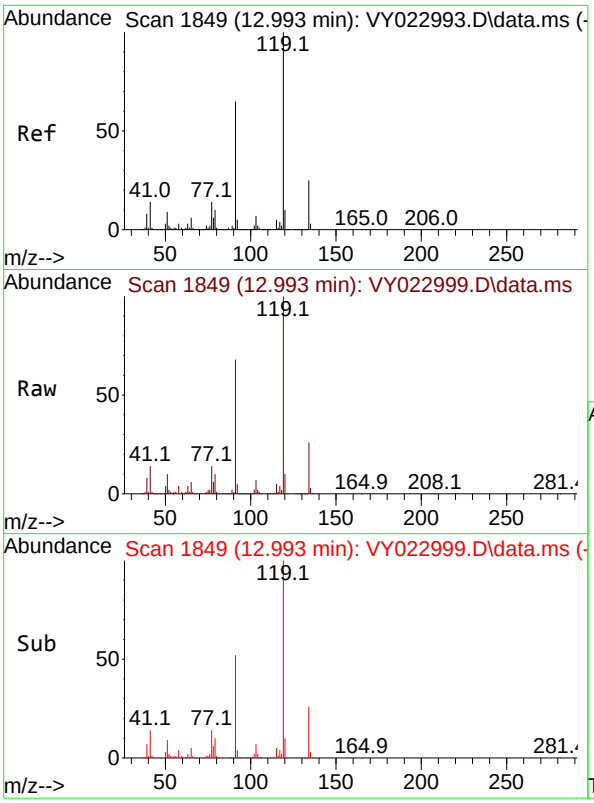


#82
4-Chlorotoluene
Concen: 19.710 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 91 Resp: 314623

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.2	51.5



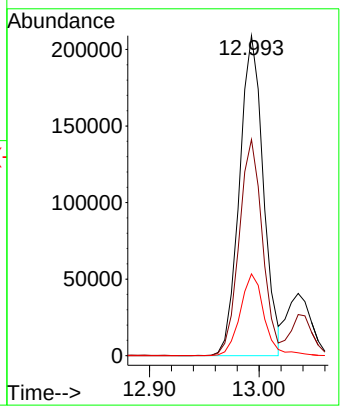


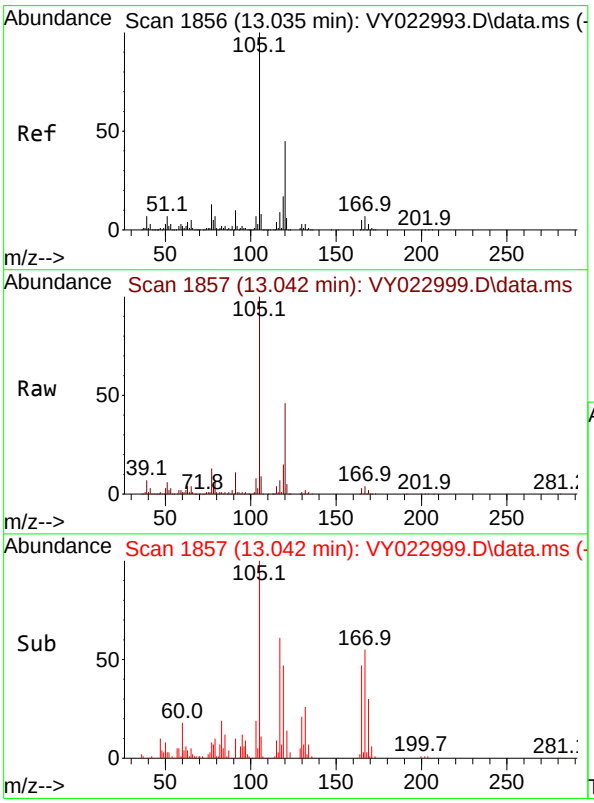
#83
tert-Butylbenzene
Concen: 18.735 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:119 Resp: 315405

Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.0	96.2
134	25.9	12.6	37.6

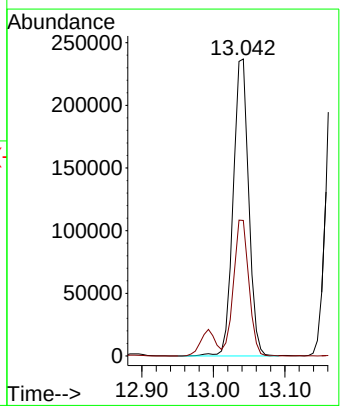


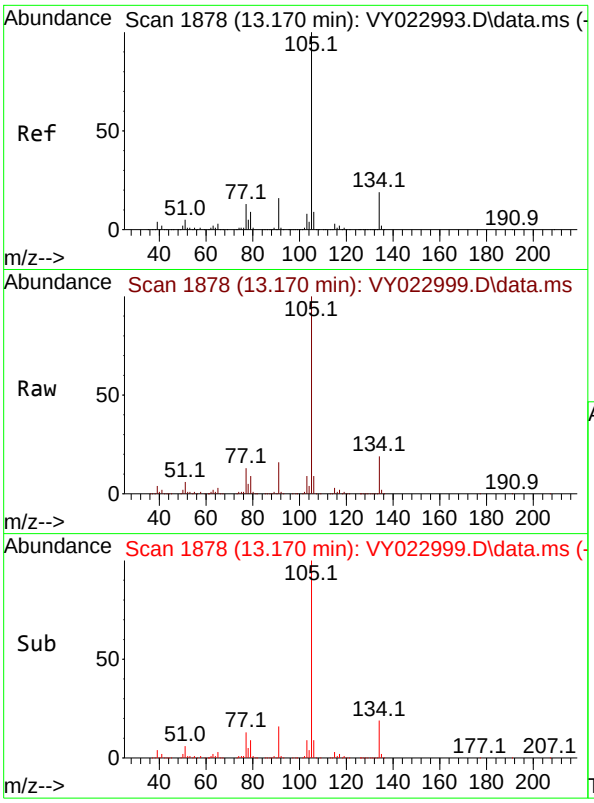


#84
1,2,4-Trimethylbenzene
Concen: 19.433 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:105 Resp: 356535

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8



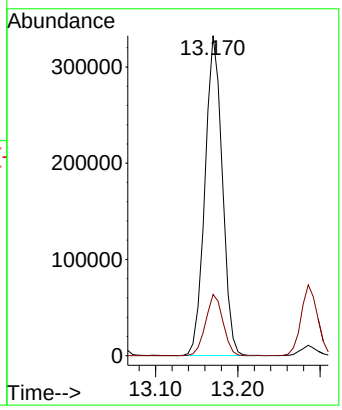


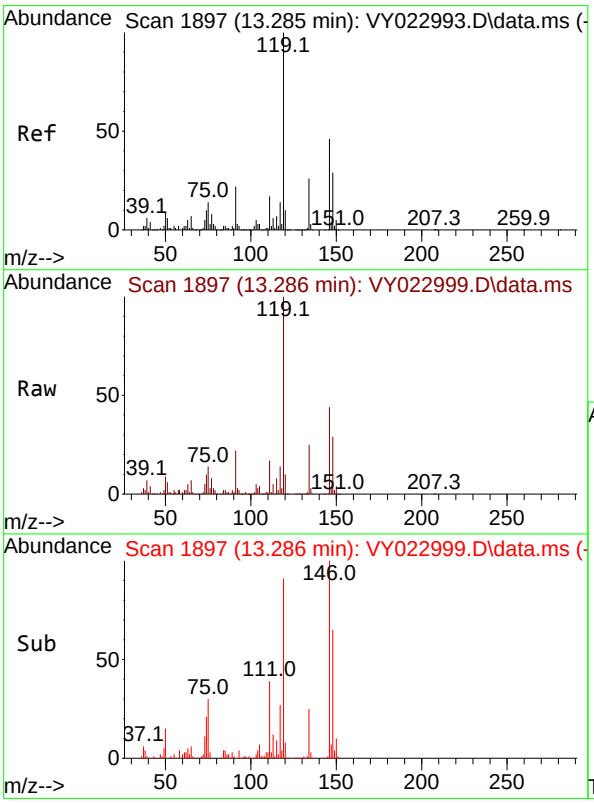
#85
sec-Butylbenzene
Concen: 19.267 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:105 Resp: 486092

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.5

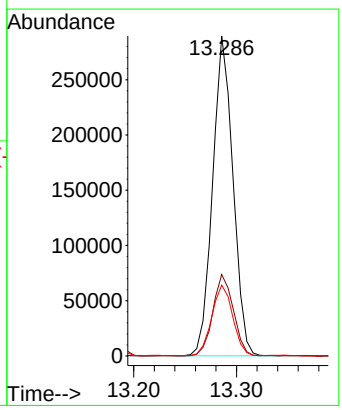


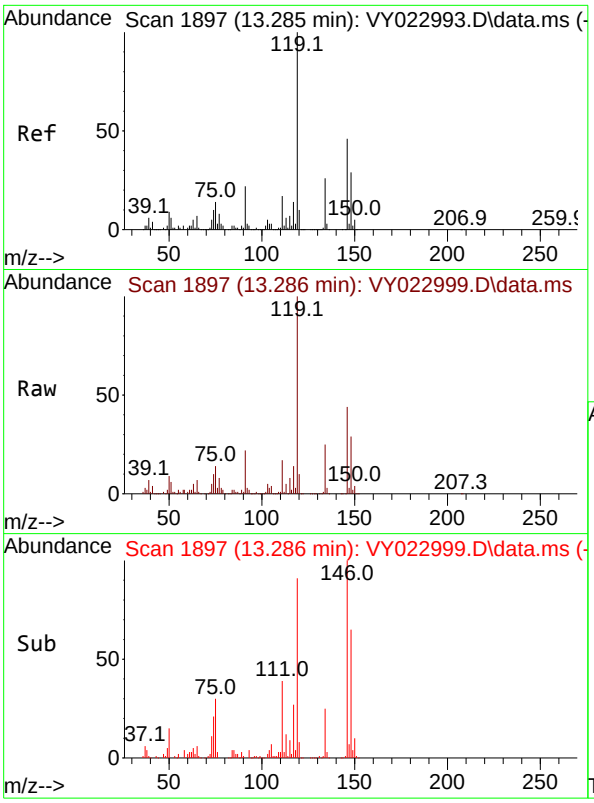


#86
p-Isopropyltoluene
Concen: 19.377 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:119 Resp: 397045

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.1	39.1
91	22.6	11.4	34.1



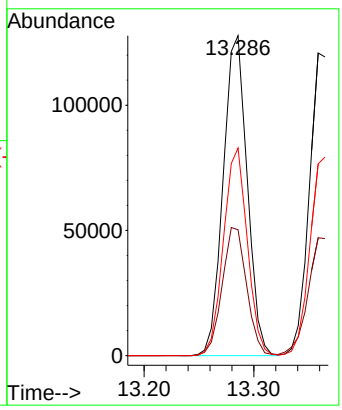


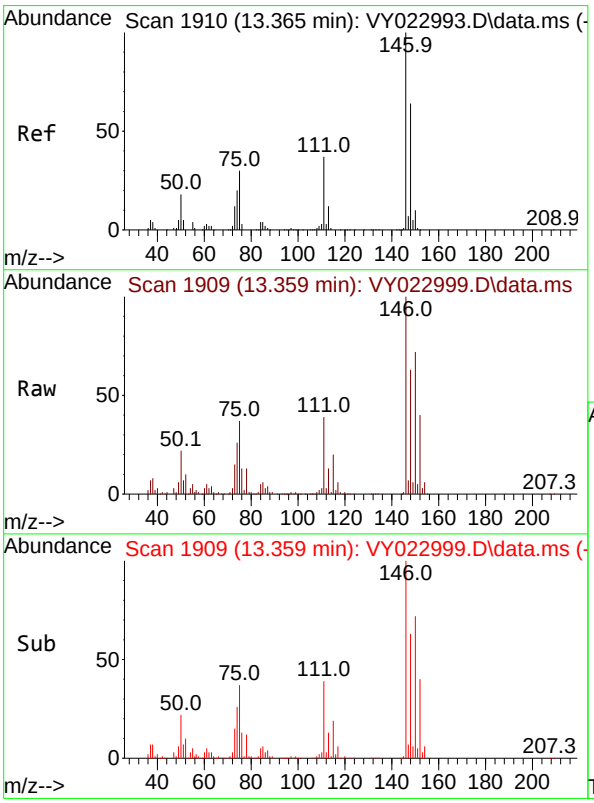
#87
1,3-Dichlorobenzene
Concen: 18.836 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:146 Resp: 194823

Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.8	59.3
148	64.3	31.6	94.8

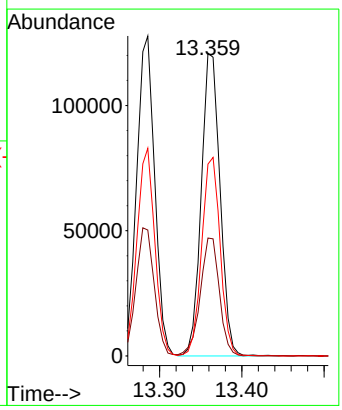


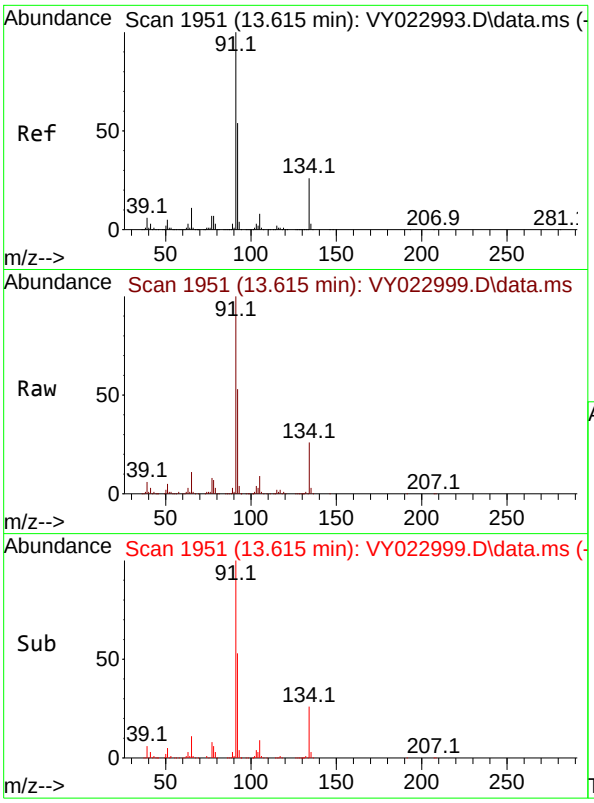


#88
1,4-Dichlorobenzene
Concen: 19.165 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:146 Resp: 191774

Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.2	57.6
148	64.7	31.9	95.5



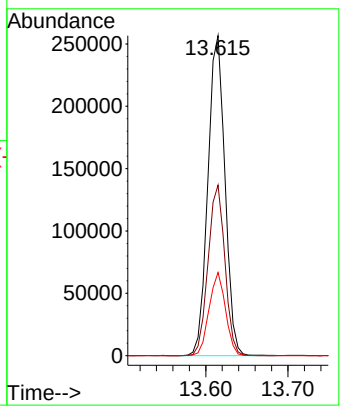


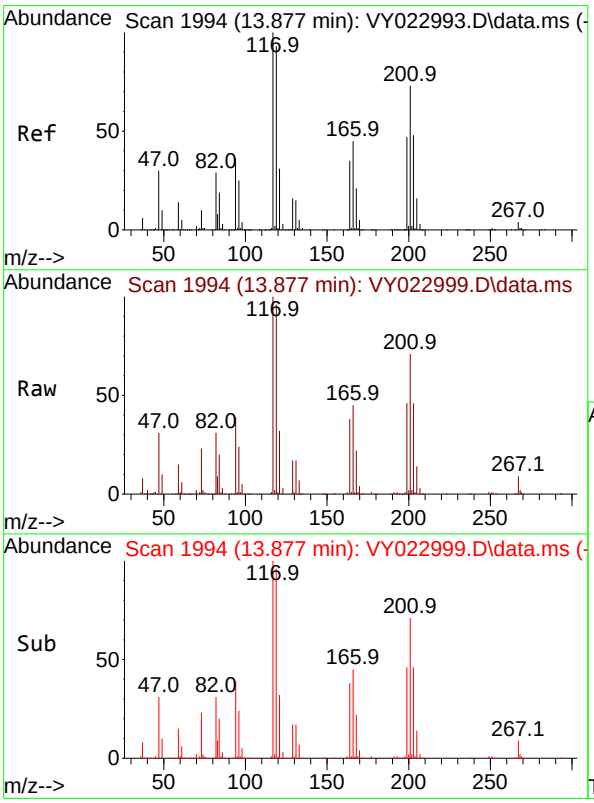
#89
n-Butylbenzene
Concen: 19.579 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion: 91 Resp: 370199

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	25.0	12.6	37.6

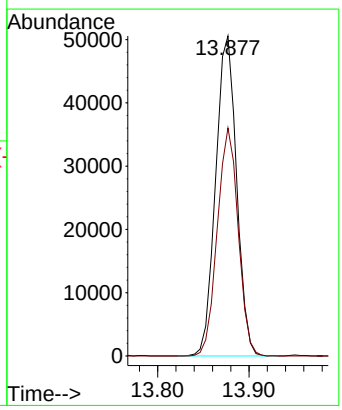


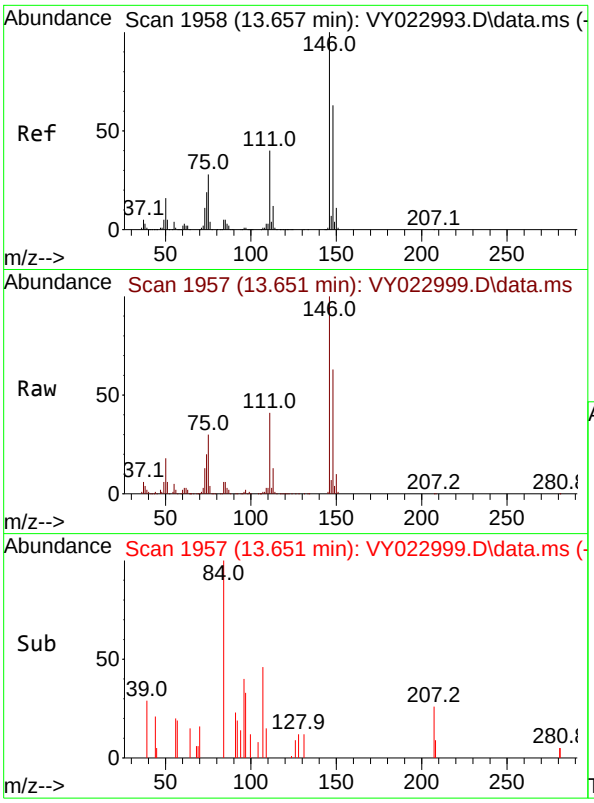


#90
Hexachloroethane
Concen: 18.996 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:117 Resp: 80585

Ion	Ratio	Lower	Upper
117	100		
201	71.0	36.1	108.5



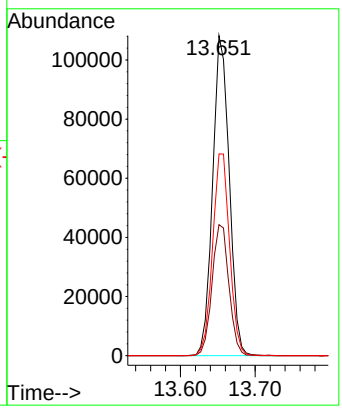


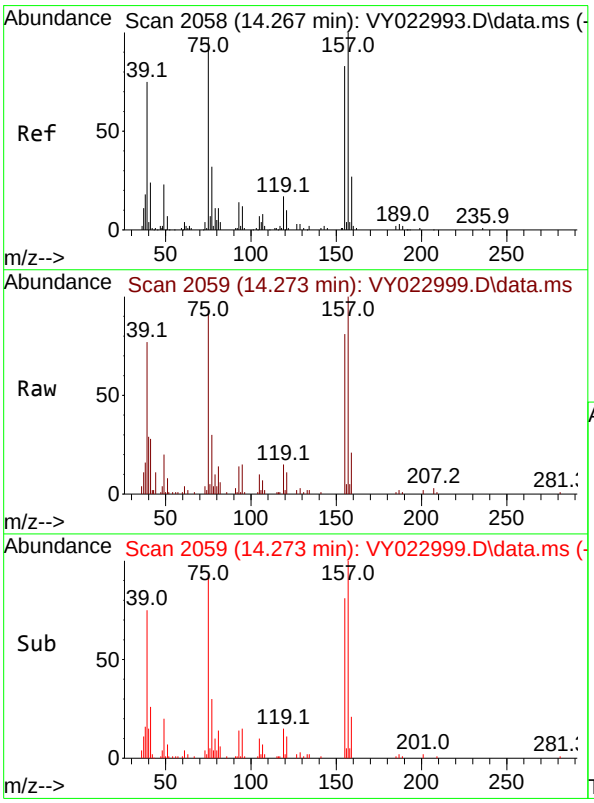
#91
1,2-Dichlorobenzene
Concen: 19.151 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:146 Resp: 167090

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.3	61.0
148	64.6	32.0	96.2

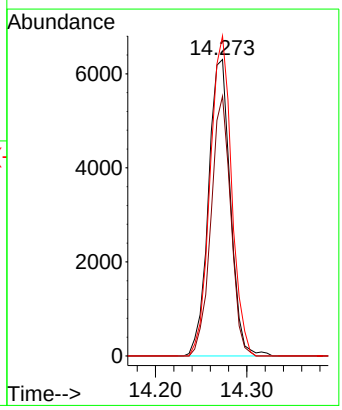


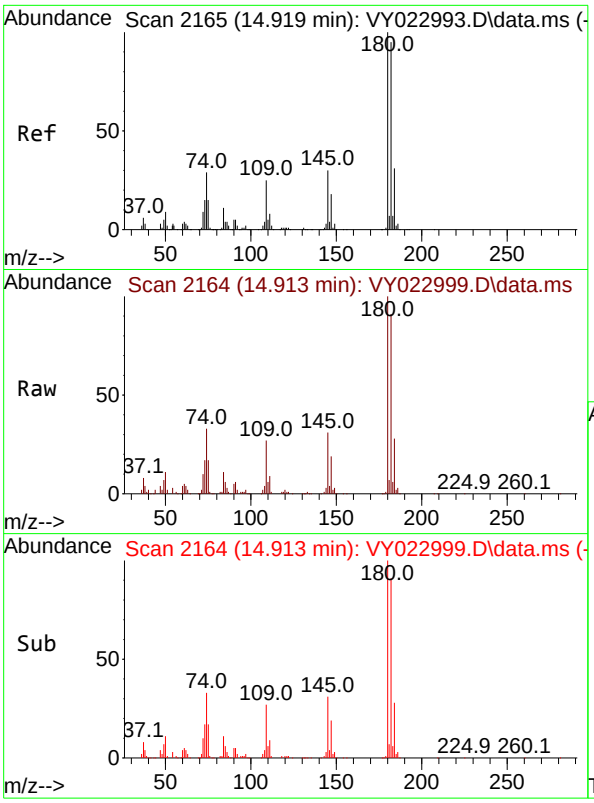


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.645 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion: 75 Resp: 10483

Ion	Ratio	Lower	Upper
75	100		
155	79.2	42.8	128.3
157	105.9	54.3	162.9



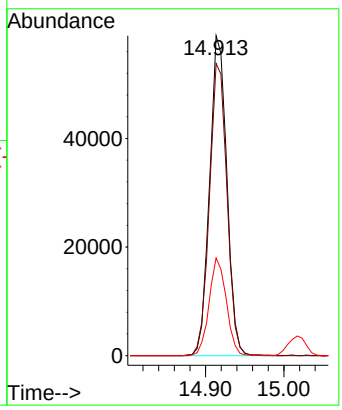


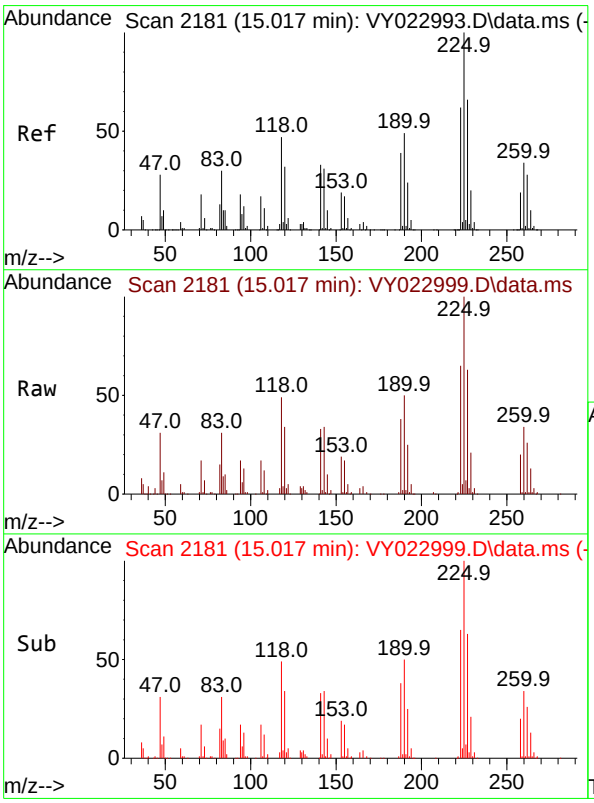
#93
1,2,4-Trichlorobenzene
Concen: 19.553 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:180 Resp: 89924

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.5	142.5
145	30.6	14.9	44.9

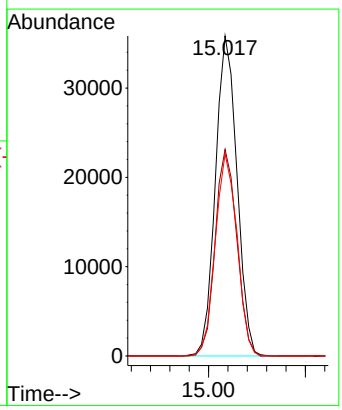


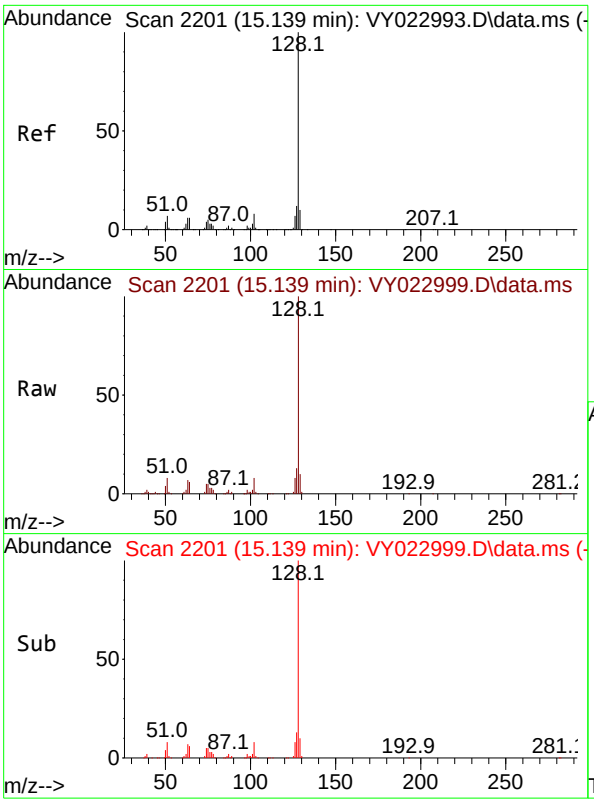


#94
Hexachlorobutadiene
Concen: 19.115 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:225 Resp: 55423

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.4	94.0
227	63.8	32.1	96.5



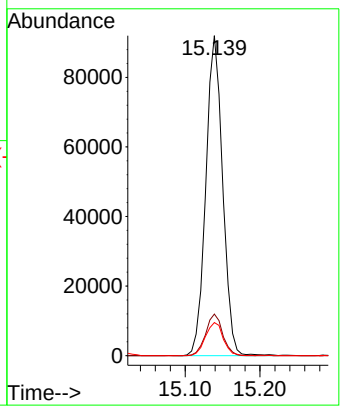


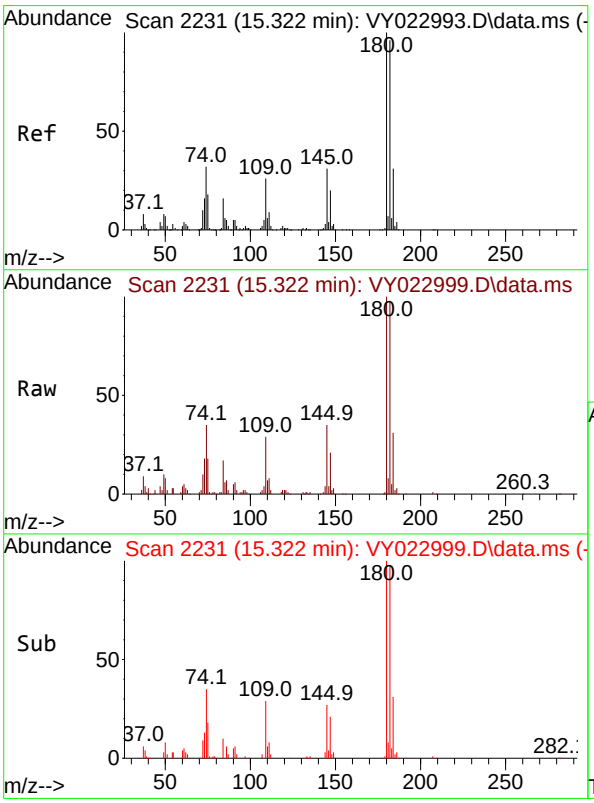
#95
Naphthalene
Concen: 19.476 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBS01

Tgt Ion:128 Resp: 143662

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.0	8.6	12.8

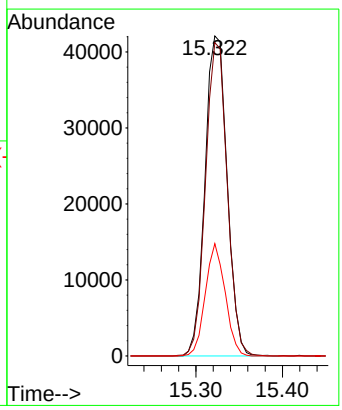




#96
1,2,3-Trichlorobenzene
Concen: 19.697 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY022999.D
Acq: 18 Jul 2025 15:37

Tgt Ion:180 Resp: 74797

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.3	142.0
145	31.4	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY01718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	441498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	726763	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	622024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	290368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	235302	52.647	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.300%			
35) Dibromofluoromethane	7.634	113	223340	48.446	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.900%			
50) Toluene-d8	10.103	98	862393	47.172	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.340%			
62) 4-Bromofluorobenzene	12.401	95	265634	46.158	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	74744	19.938	ug/l	96
3) Chloromethane	2.068	50	143371	22.492	ug/l	99
4) Vinyl Chloride	2.202	62	169689	21.012	ug/l	98
5) Bromomethane	2.592	94	143171	24.564	ug/l	96
6) Chloroethane	2.732	64	116712	21.639	ug/l	94
7) Trichlorofluoromethane	3.049	101	199294	21.259	ug/l	97
8) Diethyl Ether	3.452	74	54948	22.395	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	99505	20.206	ug/l	100
10) Methyl Iodide	4.000	142	92236	18.029	ug/l	98
11) Tert butyl alcohol	4.860	59	33272	123.093	ug/l #	86
12) 1,1-Dichloroethene	3.787	96	95020	20.254	ug/l	97
13) Acrolein	3.653	56	21072	165.903	ug/l	99
14) Allyl chloride	4.378	41	145884	20.411	ug/l	98
15) Acrylonitrile	5.061	53	110719	119.137	ug/l	97
16) Acetone	3.866	43	97170	119.939	ug/l	100
17) Carbon Disulfide	4.104	76	288599	20.298	ug/l	98
18) Methyl Acetate	4.391	43	58402	21.292	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	254006	22.573	ug/l	98
20) Methylene Chloride	4.616	84	149748	21.534	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	107229	20.533	ug/l	97
22) Diisopropyl ether	6.018	45	331682	21.875	ug/l	96
23) Vinyl Acetate	5.957	43	910154	119.130	ug/l	97
24) 1,1-Dichloroethane	5.915	63	200869	21.091	ug/l	99
25) 2-Butanone	6.890	43	140232	120.655	ug/l	98
26) 2,2-Dichloropropane	6.878	77	165662	19.848	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	125924	20.923	ug/l	99
28) Bromochloromethane	7.238	49	80178	21.706	ug/l	97
29) Tetrahydrofuran	7.262	42	87651	119.115	ug/l	99
30) Chloroform	7.415	83	200917	20.913	ug/l	98
31) Cyclohexane	7.701	56	175169	19.685	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	179081	20.544	ug/l	99
36) 1,1-Dichloropropene	7.835	75	144552	19.906	ug/l	99
37) Ethyl Acetate	6.982	43	65064	24.125	ug/l	97
38) Carbon Tetrachloride	7.817	117	152517	19.332	ug/l	99
39) Methylcyclohexane	9.109	83	181502	19.311	ug/l	98
40) Benzene	8.079	78	447067	20.447	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY01718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	32685	22.247	ug/l		94
42) 1,2-Dichloroethane	8.158	62	121246	22.289	ug/l		100
43) Isopropyl Acetate	8.195	43	125867	23.495	ug/l	#	86
44) Trichloroethene	8.865	130	109088	19.425	ug/l		98
45) 1,2-Dichloropropane	9.140	63	105365	20.636	ug/l		100
46) Dibromomethane	9.231	93	57491	21.784	ug/l		98
47) Bromodichloromethane	9.420	83	153006	20.974	ug/l		99
48) Methyl methacrylate	9.219	41	56963	22.024	ug/l		97
49) 1,4-Dioxane	9.225	88	13277	477.259	ug/l		93
51) 4-Methyl-2-Pentanone	9.993	43	321913	118.388	ug/l		100
52) Toluene	10.170	92	276910	20.370	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	132598	21.174	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	156932	20.791	ug/l		95
55) 1,1,2-Trichloroethane	10.566	97	76101	21.939	ug/l		98
56) Ethyl methacrylate	10.438	69	96413	22.265	ug/l		99
57) 1,3-Dichloropropane	10.713	76	132512	22.114	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	227470	107.314	ug/l		99
59) 2-Hexanone	10.755	43	211344	118.246	ug/l		99
60) Dibromochloromethane	10.908	129	98399	21.663	ug/l		100
61) 1,2-Dibromoethane	11.011	107	70161	22.273	ug/l		98
64) Tetrachloroethene	10.646	164	118268	18.602	ug/l		99
65) Chlorobenzene	11.438	112	291672	19.871	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.511	131	99858	19.946	ug/l		98
67) Ethyl Benzene	11.517	91	500539	19.239	ug/l		98
68) m/p-Xylenes	11.627	106	383842	38.465	ug/l		99
69) o-Xylene	11.950	106	178419	19.266	ug/l		99
70) Styrene	11.962	104	299288	19.729	ug/l		99
71) Bromoform	12.127	173	53773	21.158	ug/l	#	100
73) Isopropylbenzene	12.249	105	469340	19.065	ug/l		100
74) N-amyl acetate	12.066	43	106978	23.049	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	79332	22.268	ug/l		100
76) 1,2,3-Trichloropropane	12.548	75	109767	30.337	ug/l	#	100
77) Bromobenzene	12.529	156	105831	19.821	ug/l		98
78) n-propylbenzene	12.590	91	571745	19.503	ug/l		99
79) 2-Chlorotoluene	12.676	91	322963	19.588	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	377356	19.435	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	26176	21.548	ug/l		100
82) 4-Chlorotoluene	12.773	91	328021	19.725	ug/l		99
83) tert-Butylbenzene	12.993	119	331779	18.917	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	377381	19.745	ug/l		99
85) sec-Butylbenzene	13.170	105	497483	18.928	ug/l		100
86) p-Isopropyltoluene	13.285	119	411364	19.271	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	208525	19.352	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	208199	19.973	ug/l		99
89) n-Butylbenzene	13.609	91	380572	19.321	ug/l		100
90) Hexachloroethane	13.871	117	85123	19.261	ug/l		100
91) 1,2-Dichlorobenzene	13.651	146	184064	20.251	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12175	23.016	ug/l		98
93) 1,2,4-Trichlorobenzene	14.913	180	100139	20.902	ug/l		98
94) Hexachlorobutadiene	15.017	225	59205	19.601	ug/l		99
95) Naphthalene	15.139	128	170744	22.220	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	85911	21.717	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY01718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

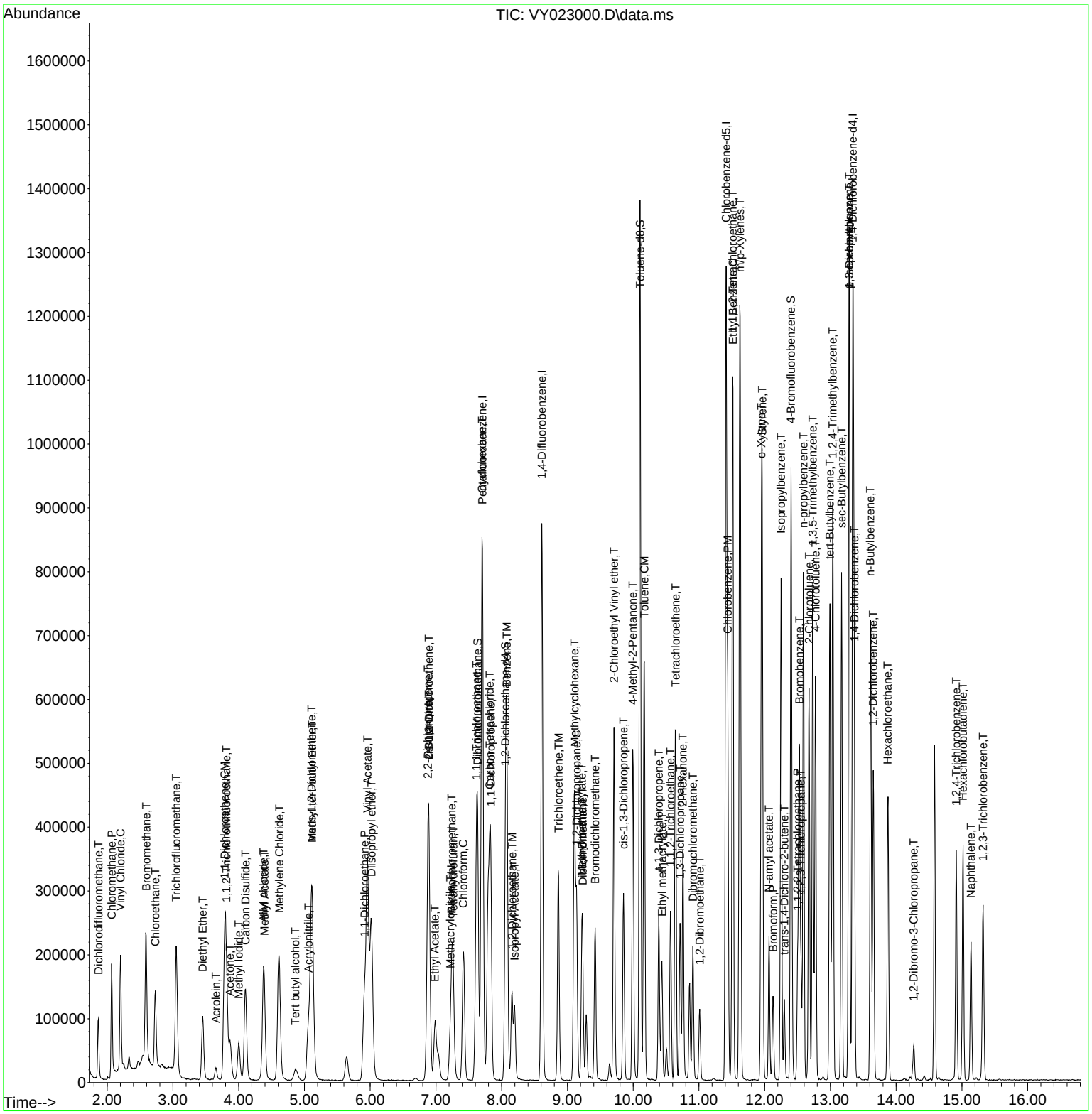
(#) = qualifier out of range (m) = manual integration (+) = signals summed

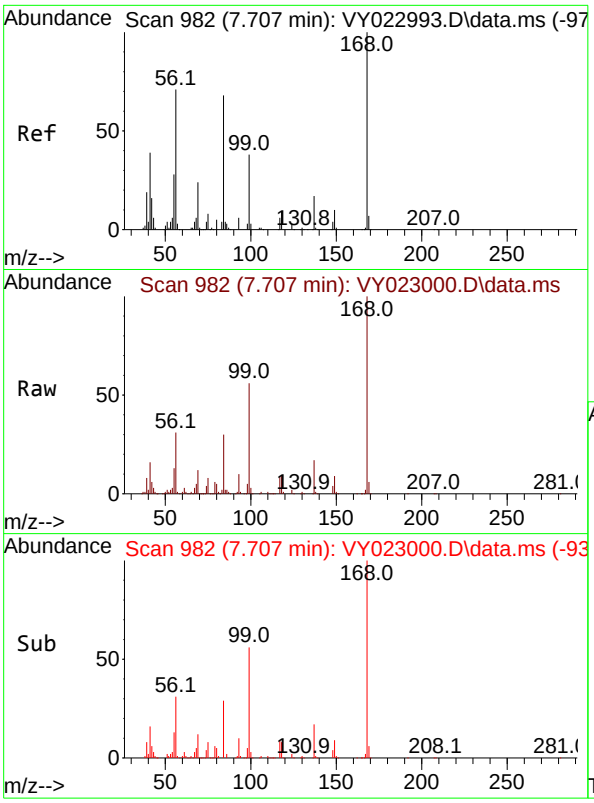
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023000.D
Acq On : 18 Jul 2025 16:00
Operator : SY/MD
Sample : VY01718SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Quant Time: Jul 19 02:12:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



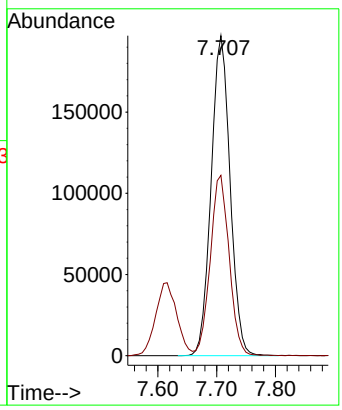


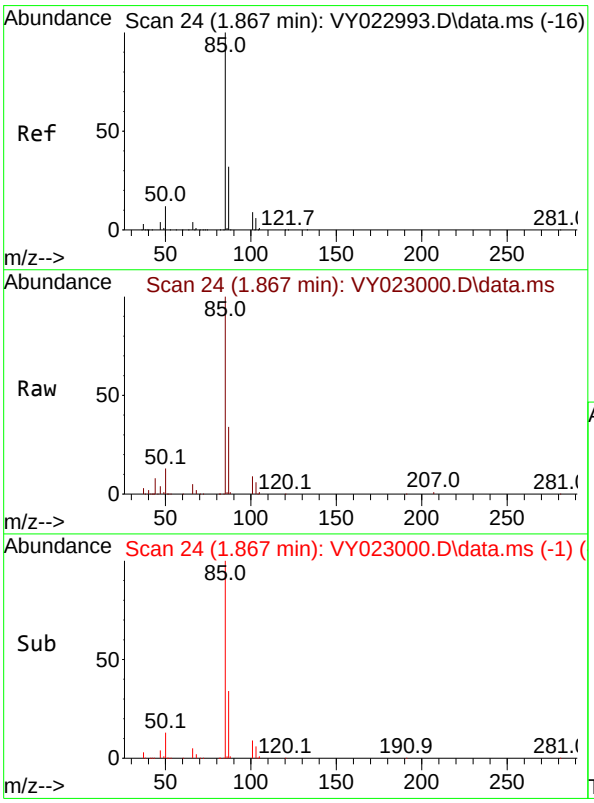
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:168 Resp: 441498

Ion	Ratio	Lower	Upper
168	100		
99	56.3	44.4	66.6

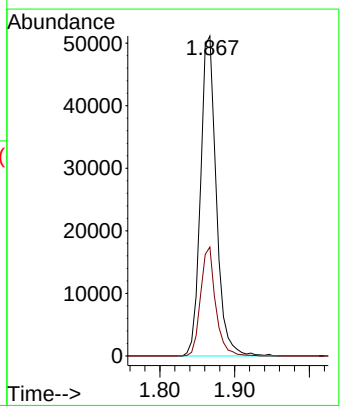


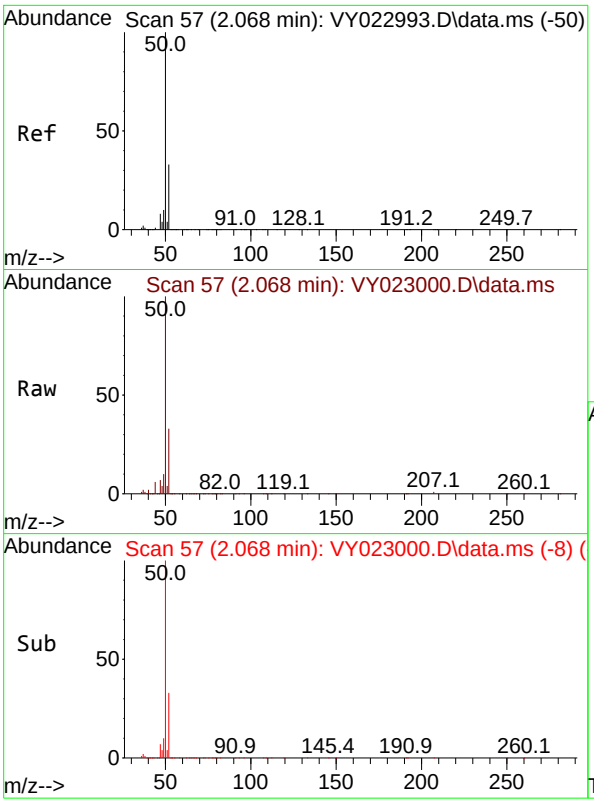


#2
Dichlorodifluoromethane
Concen: 19.938 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 85 Resp: 74744

Ion	Ratio	Lower	Upper
85	100		
87	34.1	16.0	47.9



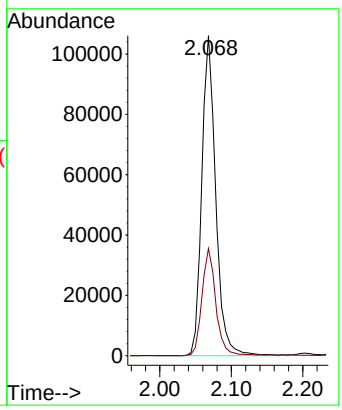


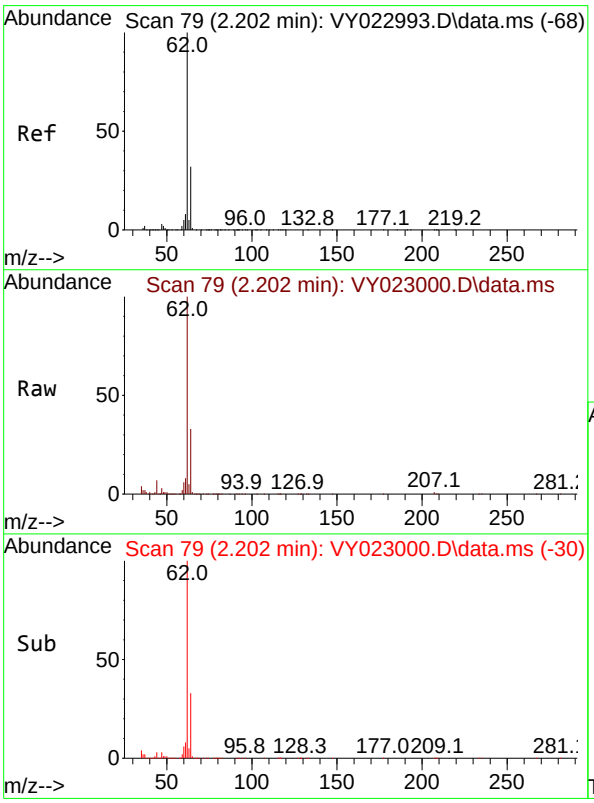
#3
Chloromethane
Concen: 22.492 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 50 Resp: 143371

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.6	39.8

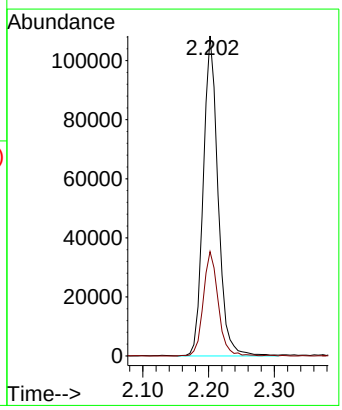


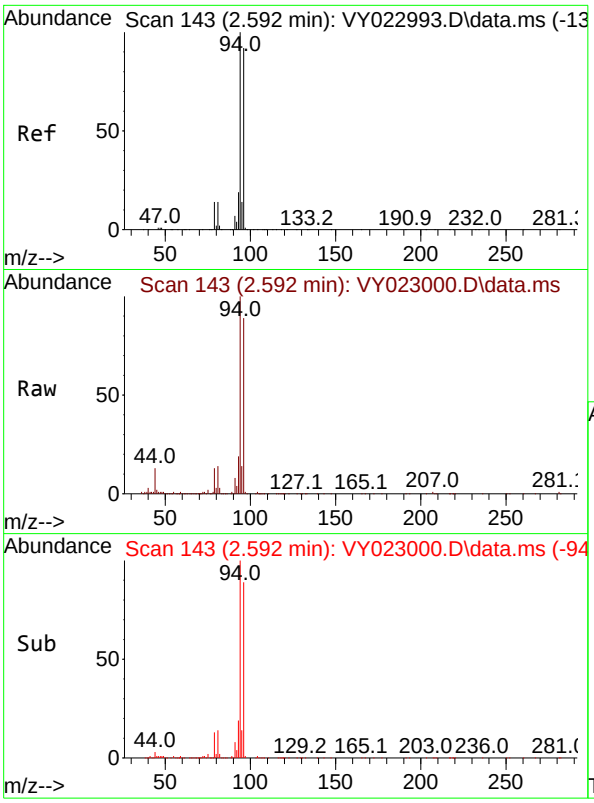


#4
Vinyl Chloride
Concen: 21.012 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 62 Resp: 169689

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.2	37.8



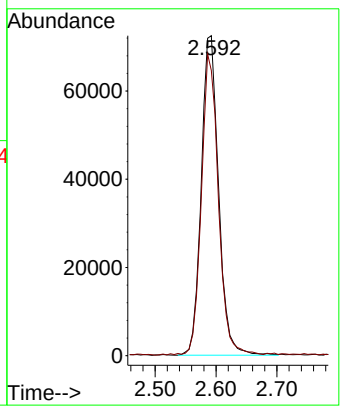


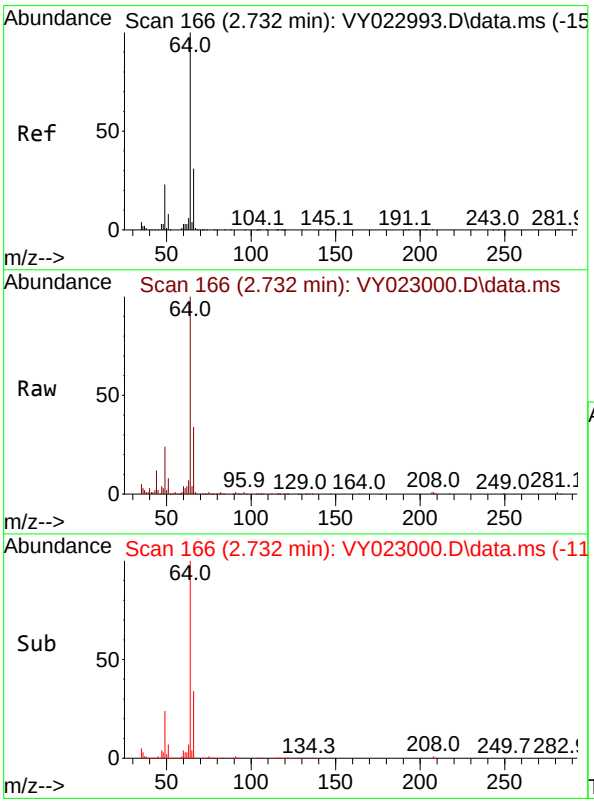
#5
Bromomethane
Concen: 24.564 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 94 Resp: 143171

Ion	Ratio	Lower	Upper
94	100		
96	88.9	73.9	110.9

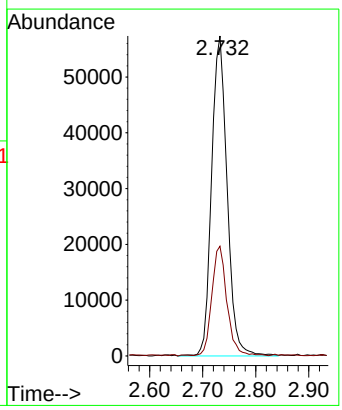


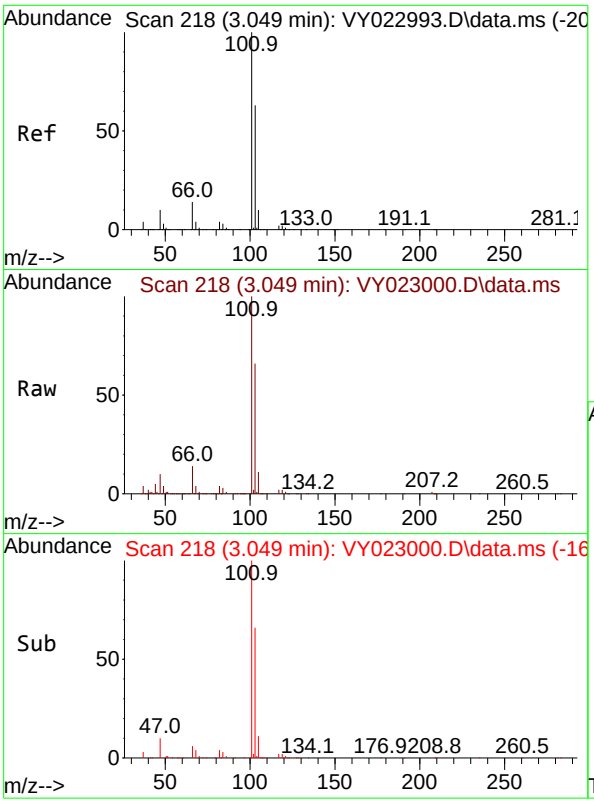


#6
Chloroethane
Concen: 21.639 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 64 Resp: 116712

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.9	37.3



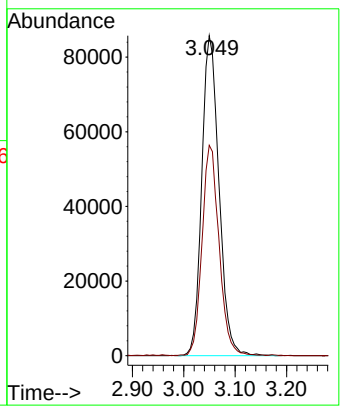


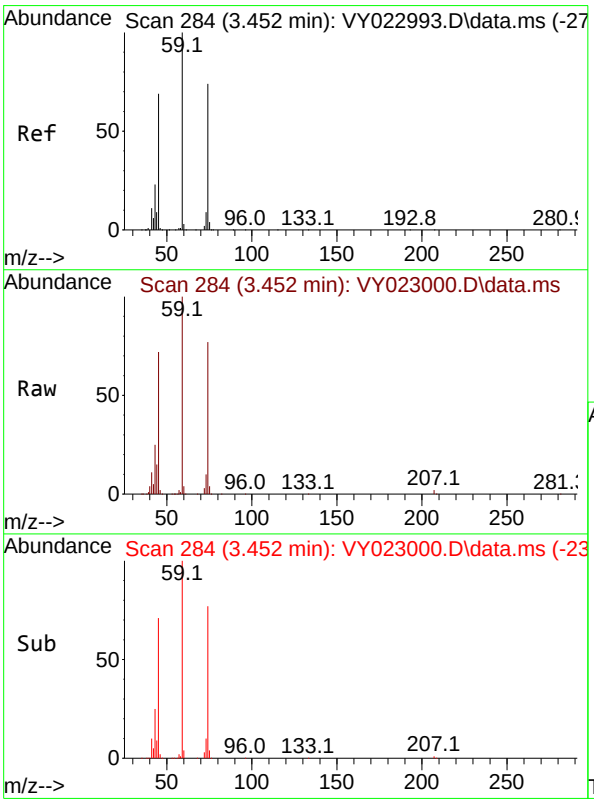
#7
Trichlorofluoromethane
Concen: 21.259 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:101 Resp: 199294

Ion	Ratio	Lower	Upper
101	100		
103	65.7	50.7	76.1

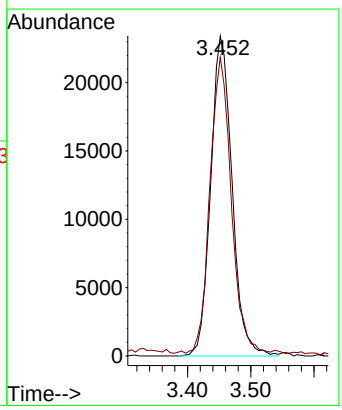


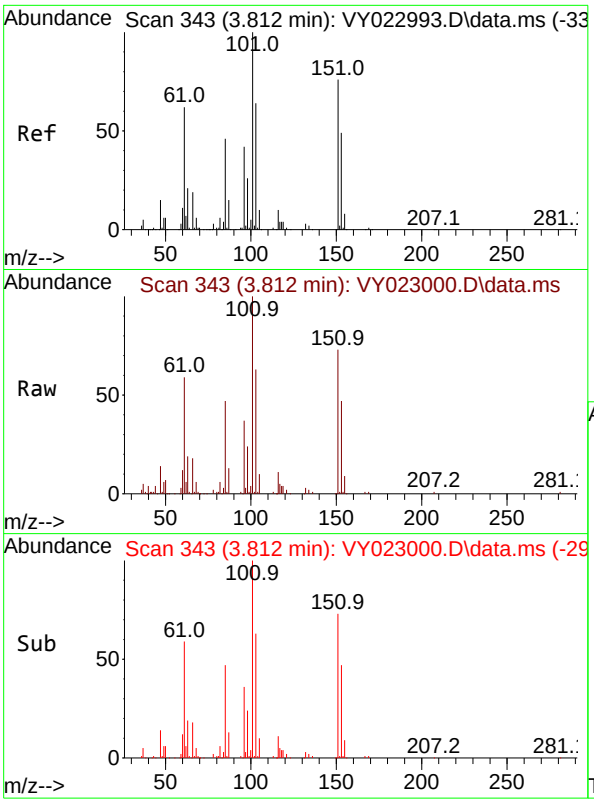


#8
Diethyl Ether
Concen: 22.395 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 74 Resp: 54948

Ion	Ratio	Lower	Upper
74	100		
45	91.9	45.1	135.2



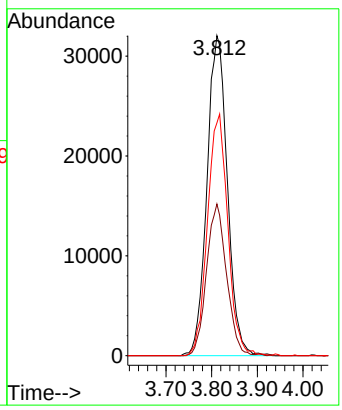


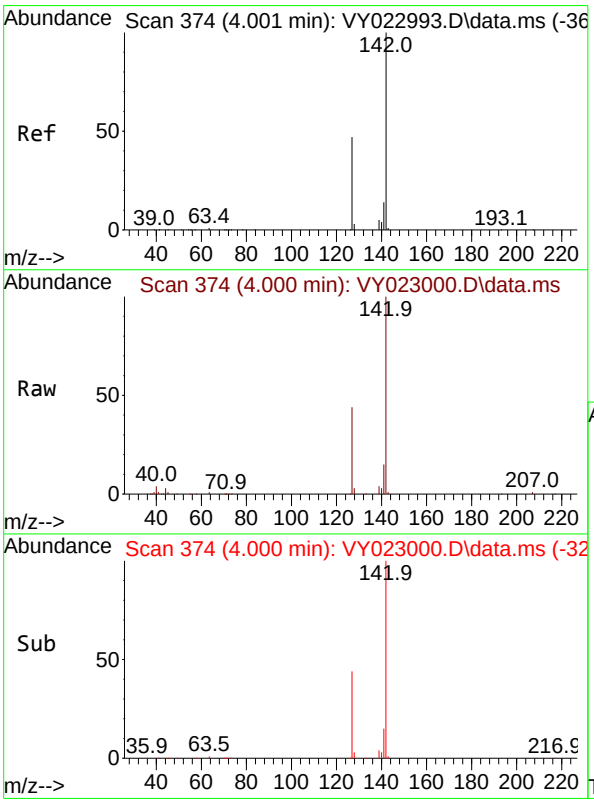
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.206 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:101 Resp: 99505

Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.2	55.8
151	75.2	59.7	89.5

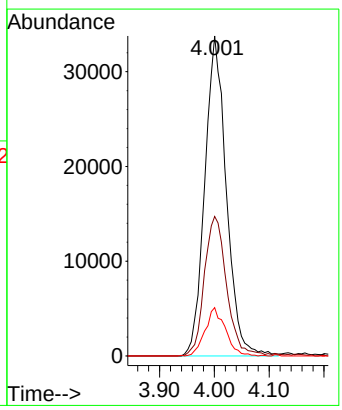


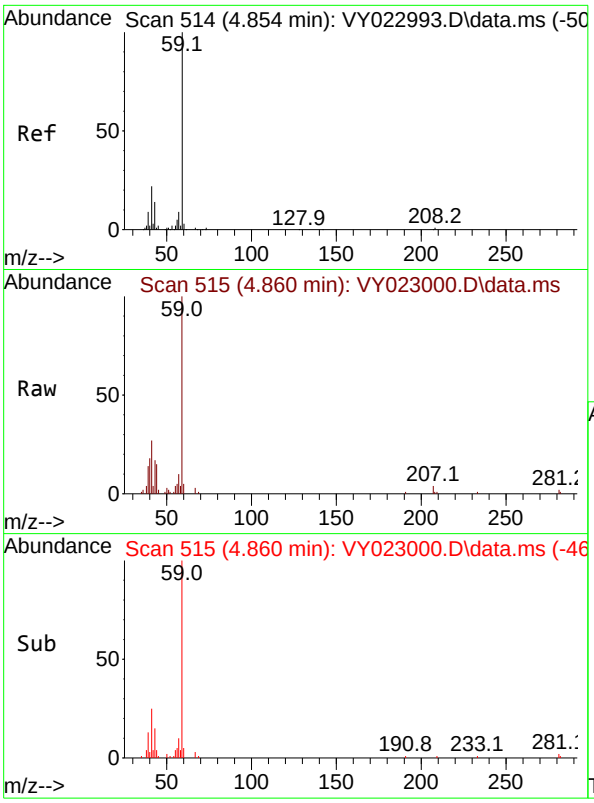


#10
Methyl Iodide
Concen: 18.029 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:142 Resp: 92236

Ion	Ratio	Lower	Upper
142	100		
127	44.9	37.0	55.6
141	14.2	11.4	17.2



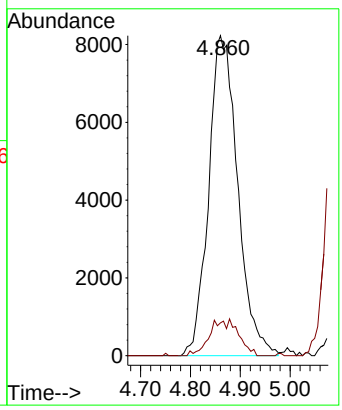


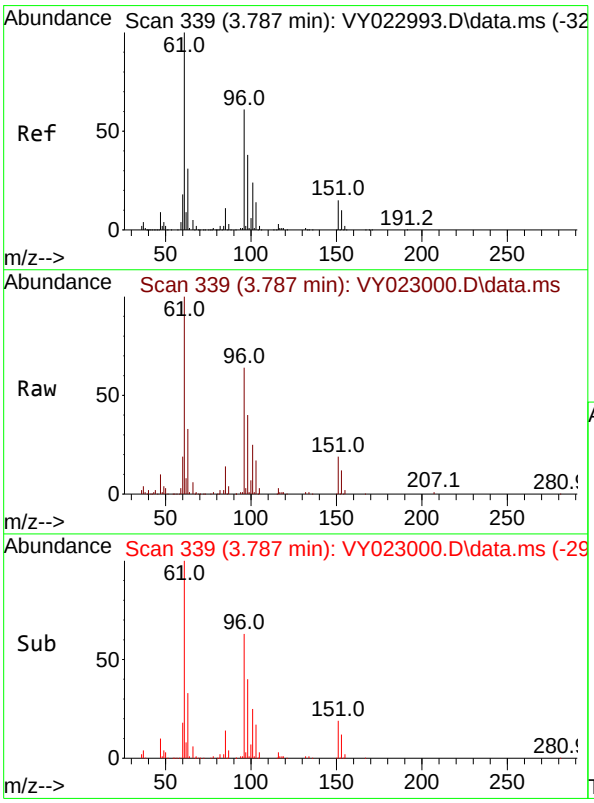
#11
Tert butyl alcohol
Concen: 123.093 ug/l
RT: 4.860 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 59 Resp: 33272

Ion	Ratio	Lower	Upper
59	100		
57	5.0	8.2	12.2#

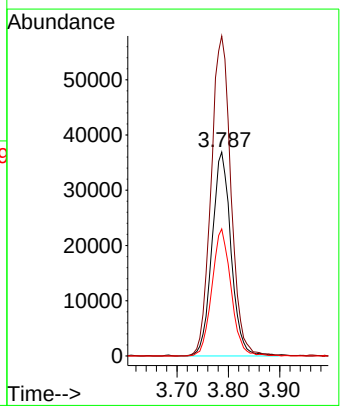


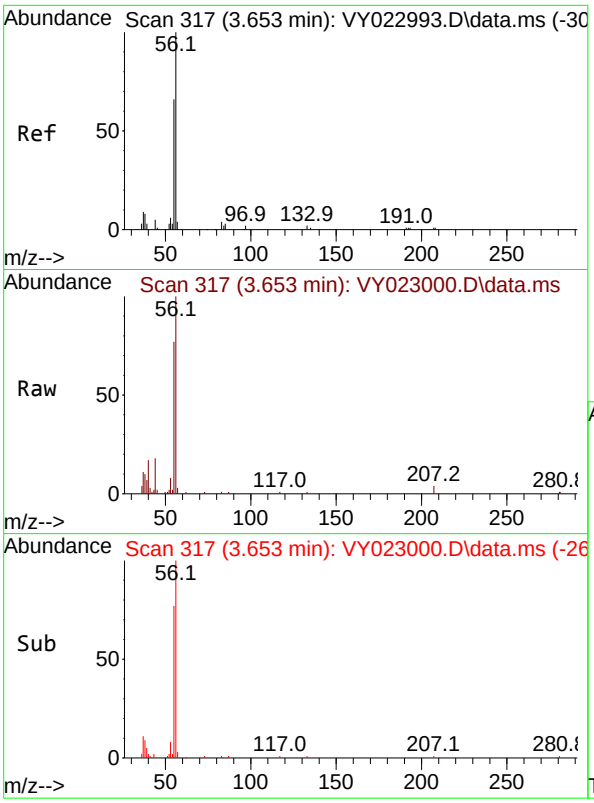


#12
1,1-Dichloroethene
Concen: 20.254 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 96 Resp: 95020

Ion	Ratio	Lower	Upper
96	100		
61	157.0	130.4	195.6
98	62.3	49.6	74.4



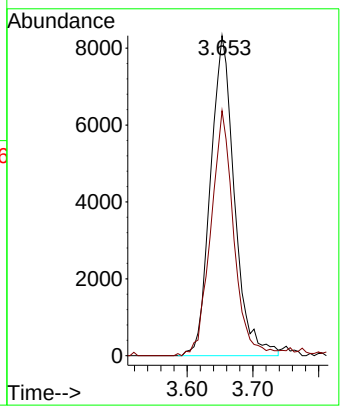


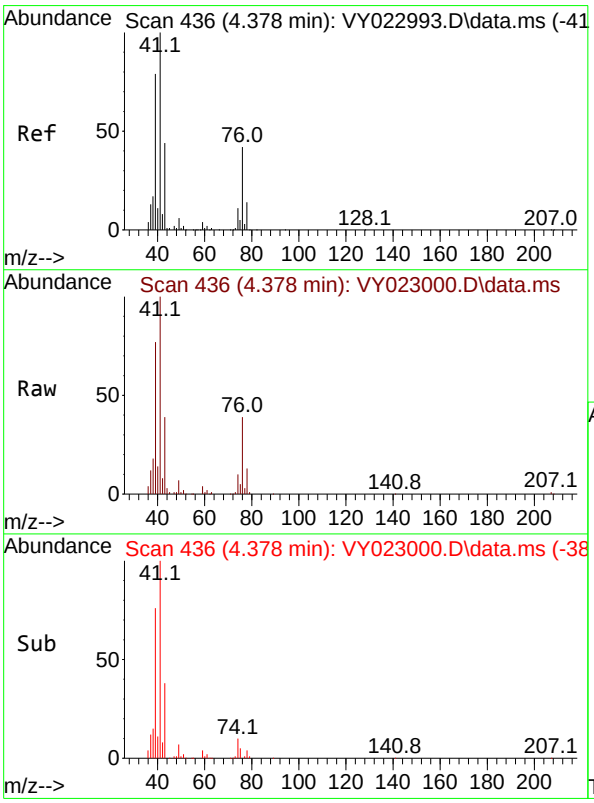
#13
Acrolein
Concen: 165.903 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 56 Resp: 21072

Ion	Ratio	Lower	Upper
56	100		
55	73.4	57.8	86.6

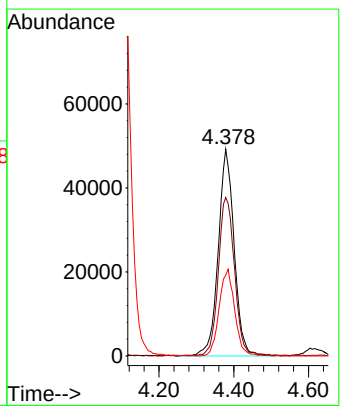


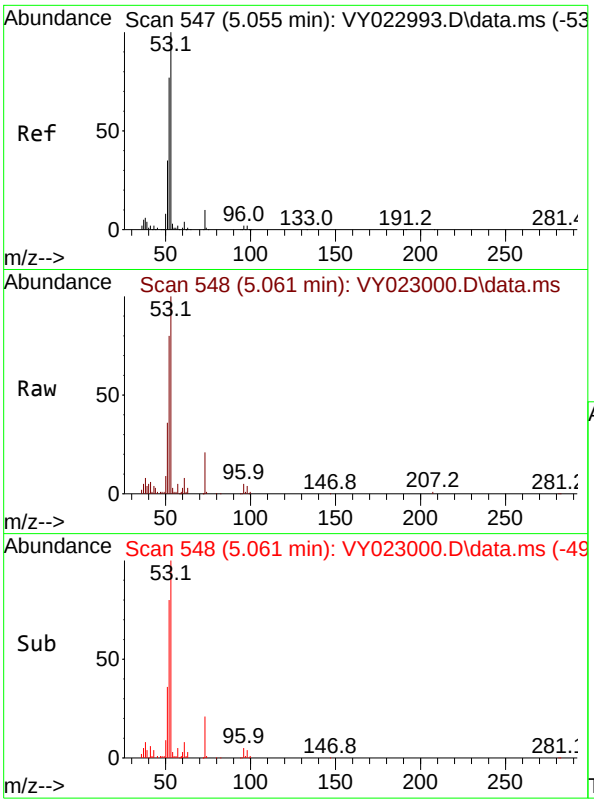


#14
Allyl chloride
Concen: 20.411 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 41 Resp: 145884

Ion	Ratio	Lower	Upper
41	100		
39	77.5	60.1	90.1
76	40.8	32.2	48.4



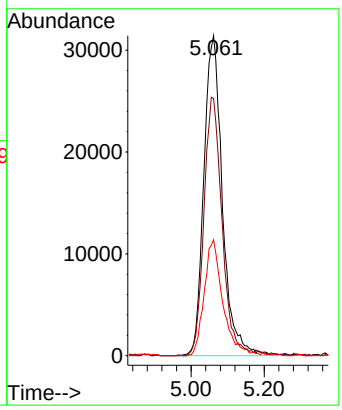


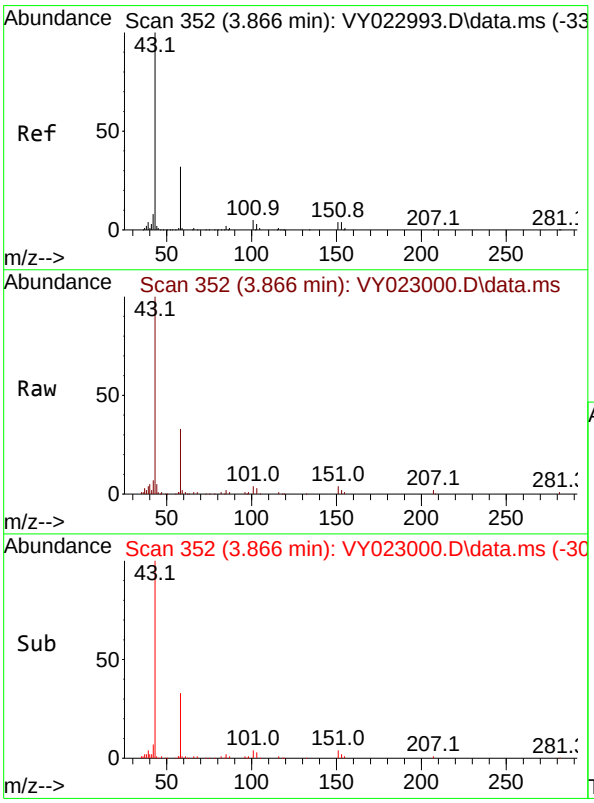
#15
Acrylonitrile
Concen: 119.137 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 53 Resp: 110719

Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.2	97.8
51	36.3	30.3	45.5

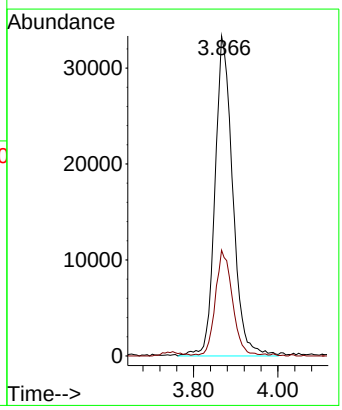


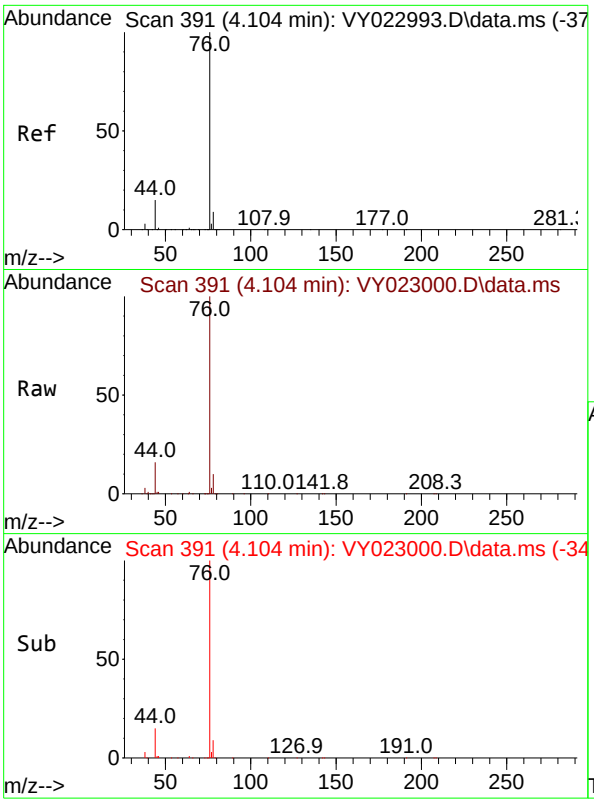


#16
Acetone
Concen: 119.939 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 43 Resp: 97170

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.2	39.4



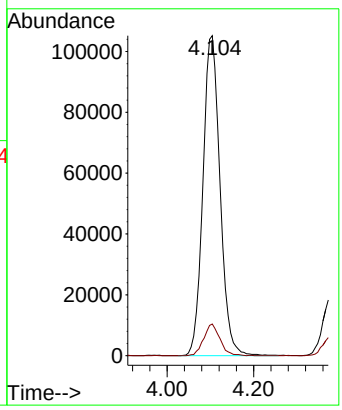


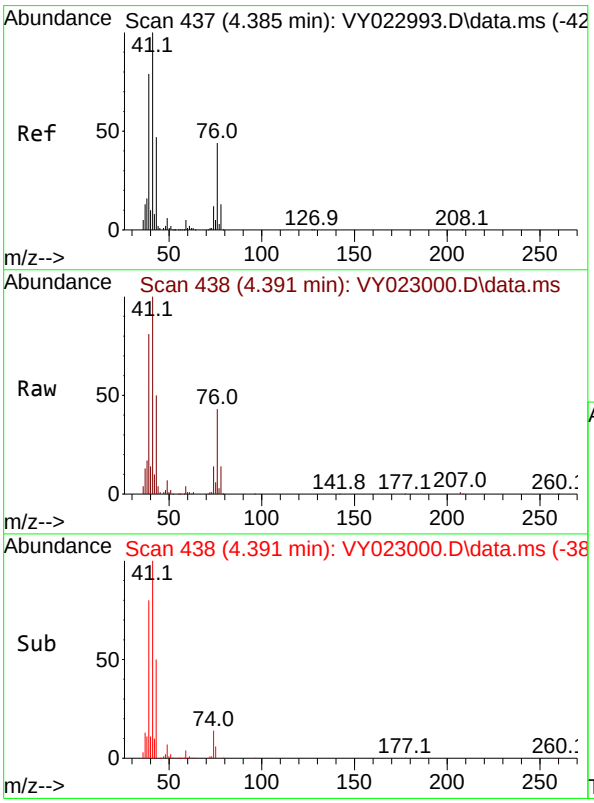
#17
Carbon Disulfide
Concen: 20.298 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 76 Resp: 288599

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.4	11.0

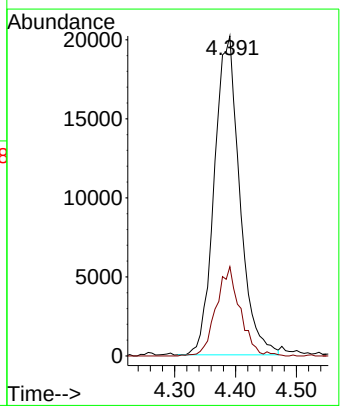


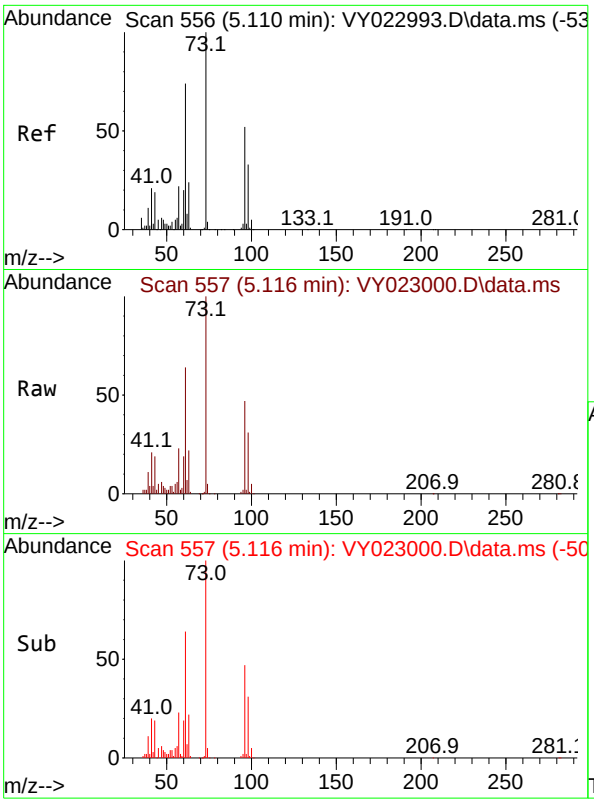


#18
Methyl Acetate
Concen: 21.292 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 43 Resp: 58402

Ion	Ratio	Lower	Upper
43	100		
74	26.2	20.1	30.1



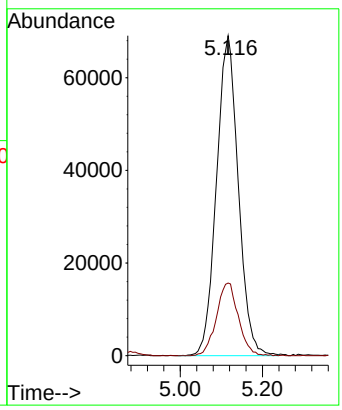


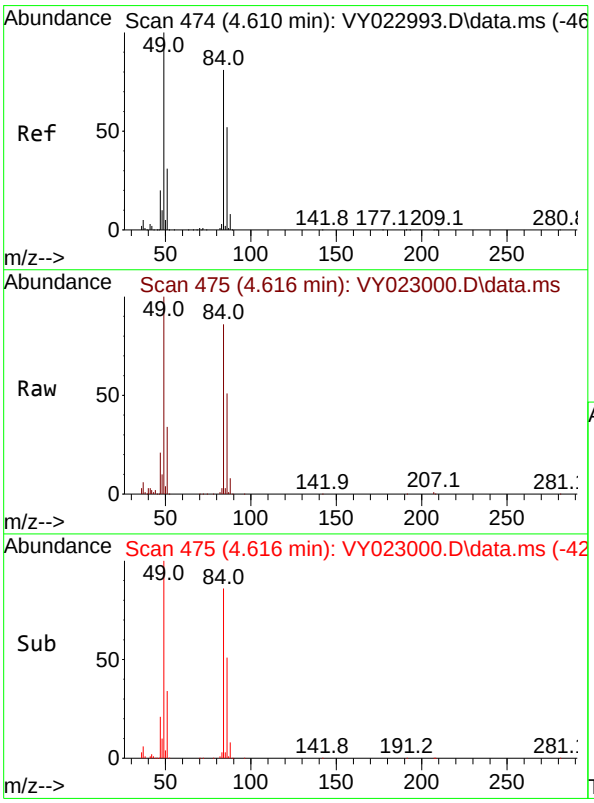
#19
Methyl tert-butyl Ether
Concen: 22.573 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 73 Resp: 254006

Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2

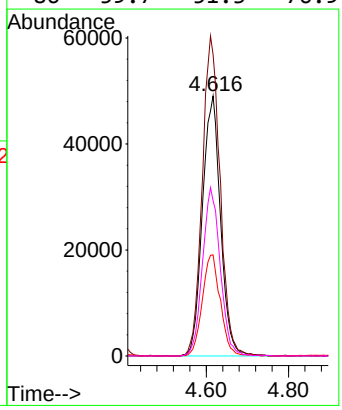


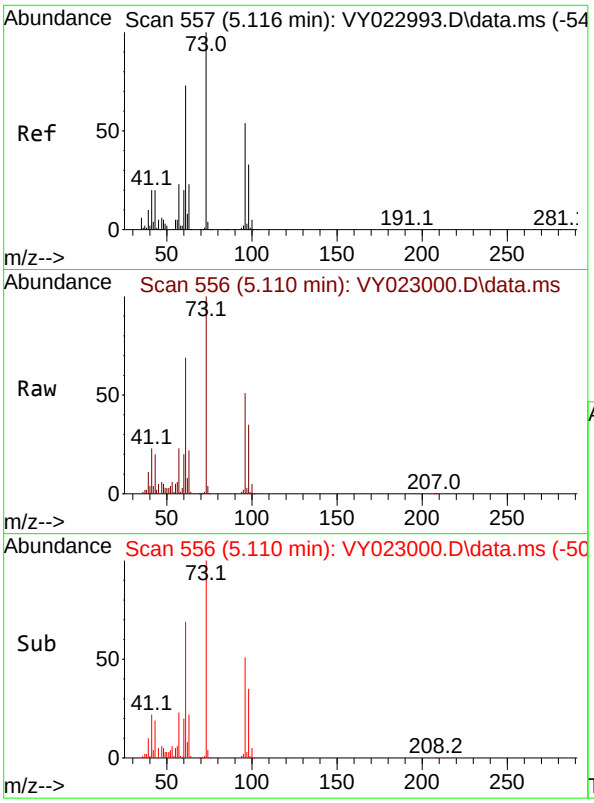


#20
Methylene Chloride
Concen: 21.534 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 84 Resp: 149748

Ion	Ratio	Lower	Upper
84	100		
49	115.9	98.2	147.4
51	38.9	30.5	45.7
86	59.7	51.3	76.9



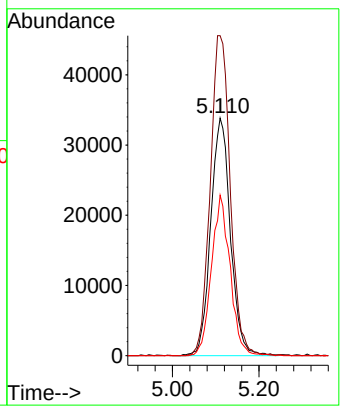


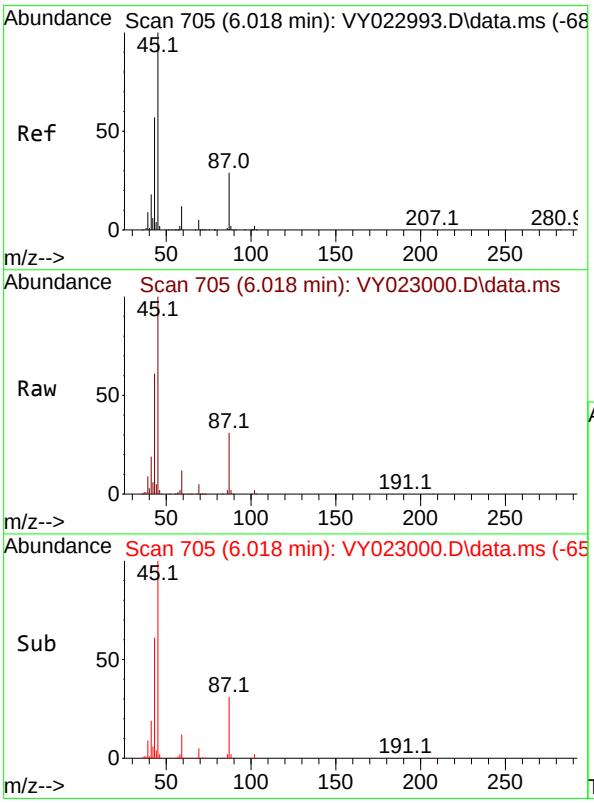
#21
trans-1,2-Dichloroethene
Concen: 20.533 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 96 Resp: 107229

Ion	Ratio	Lower	Upper
96	100		
61	134.6	107.4	161.2
98	67.5	49.3	73.9

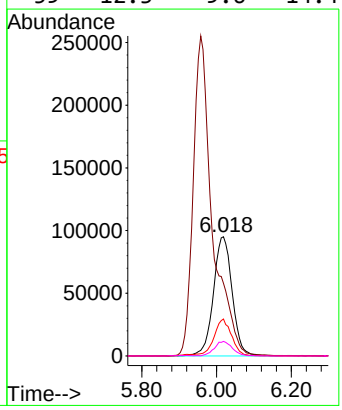


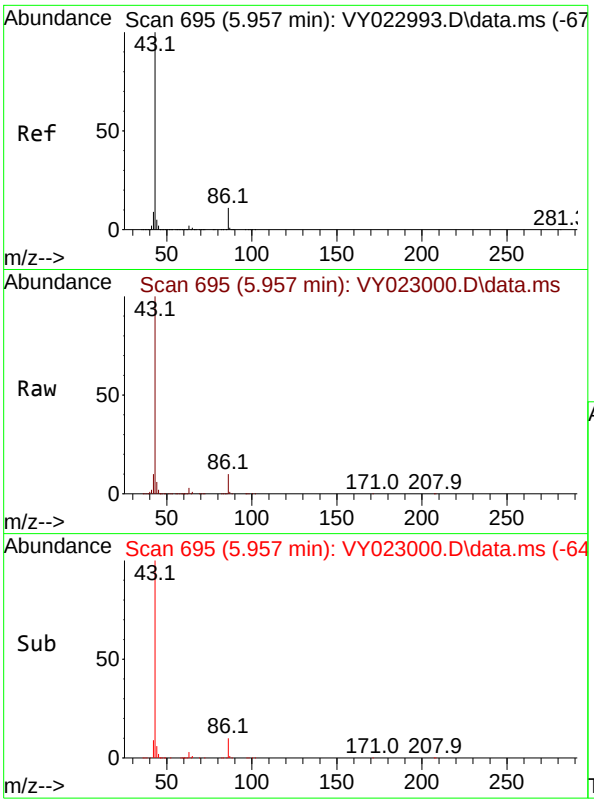


#22
Diisopropyl ether
Concen: 21.875 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 45 Resp: 331682

Ion	Ratio	Lower	Upper
45	100		
43	60.5	45.3	67.9
87	31.1	23.3	34.9
59	12.3	9.6	14.4



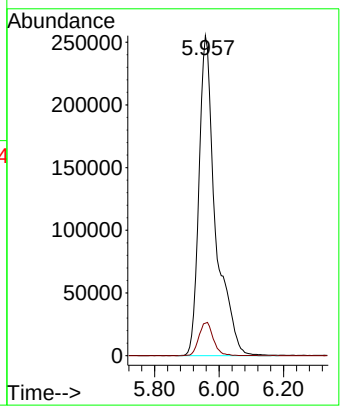


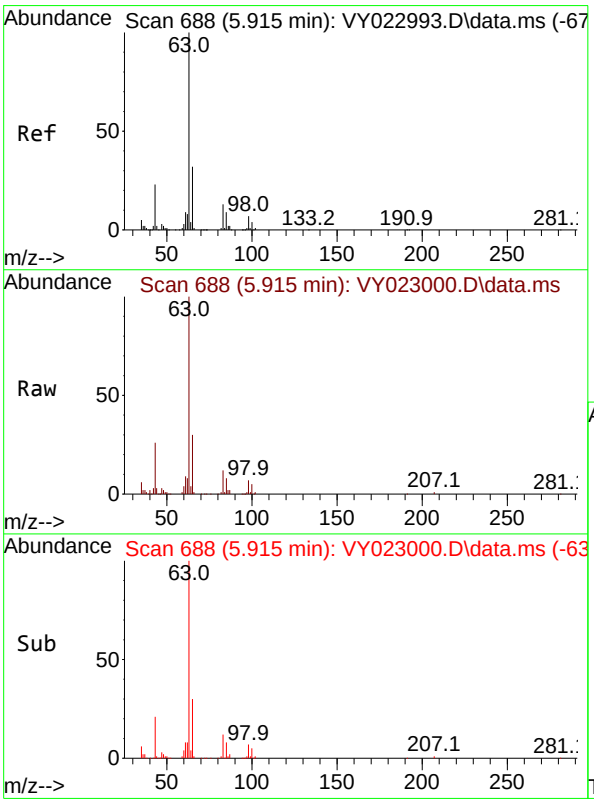
#23
Vinyl Acetate
Concen: 119.130 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 43 Resp: 910154

Ion	Ratio	Lower	Upper
43	100		
86	10.1	9.0	13.4

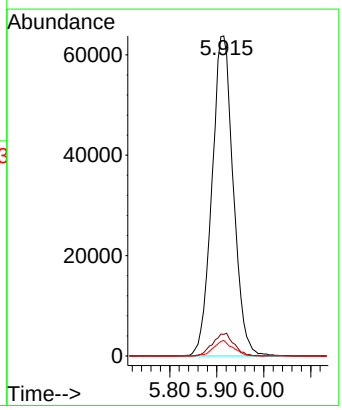


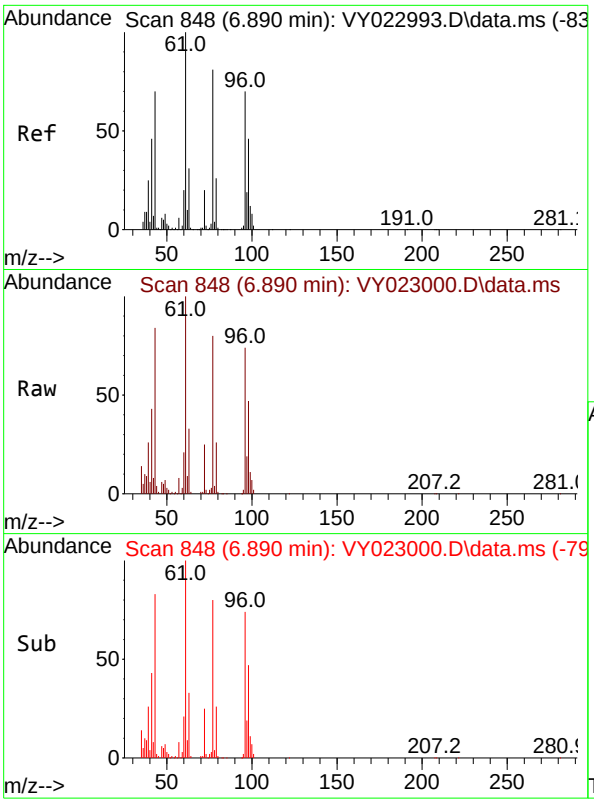


#24
1,1-Dichloroethane
Concen: 21.091 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 63 Resp: 200869

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.9	2.1	6.2



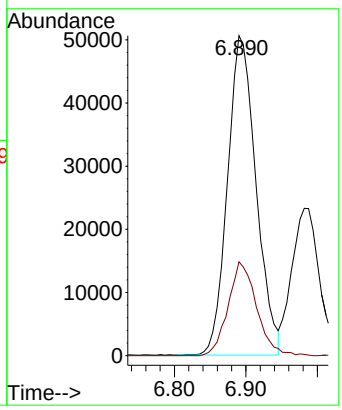


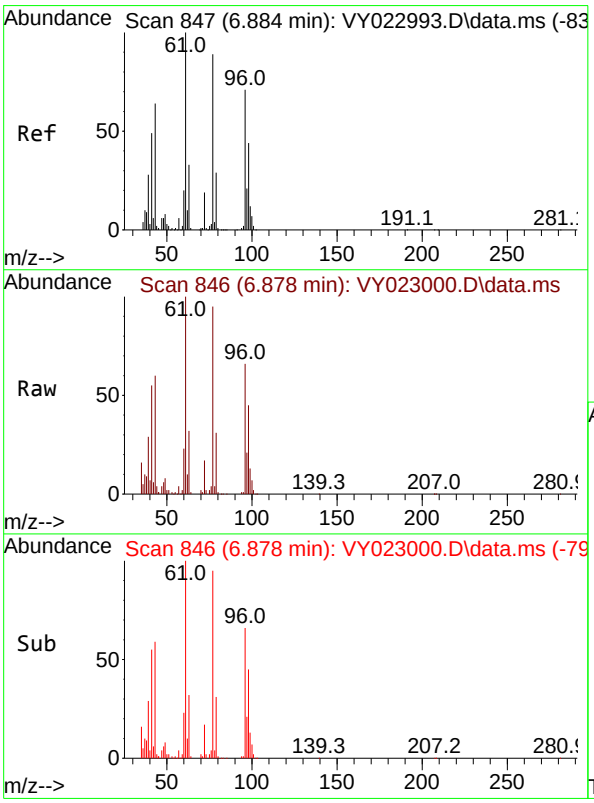
#25
2-Butanone
Concen: 120.655 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 43 Resp: 140232

Ion	Ratio	Lower	Upper
43	100		
72	29.4	22.9	34.3

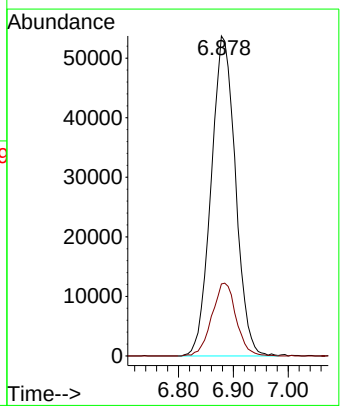


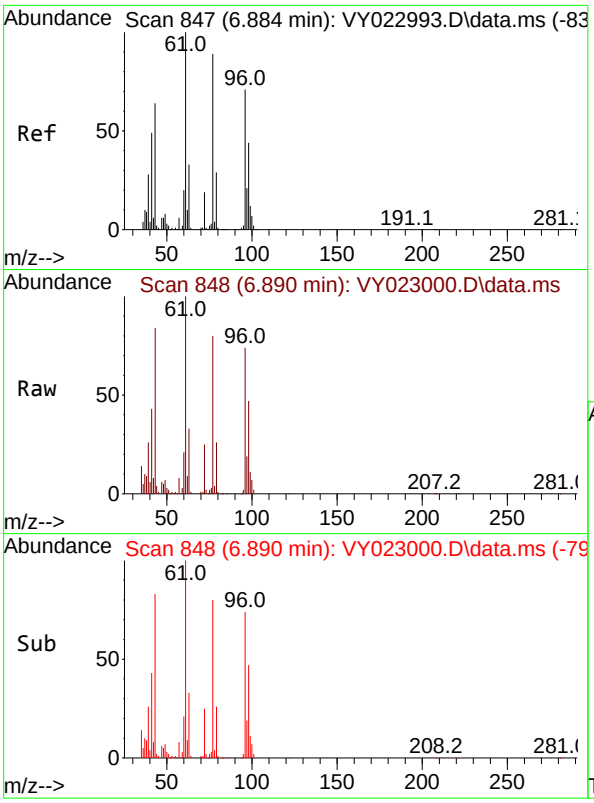


#26
2,2-Dichloropropane
Concen: 19.848 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 77 Resp: 165662

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.3	33.9



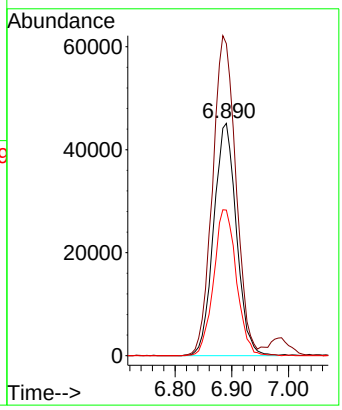


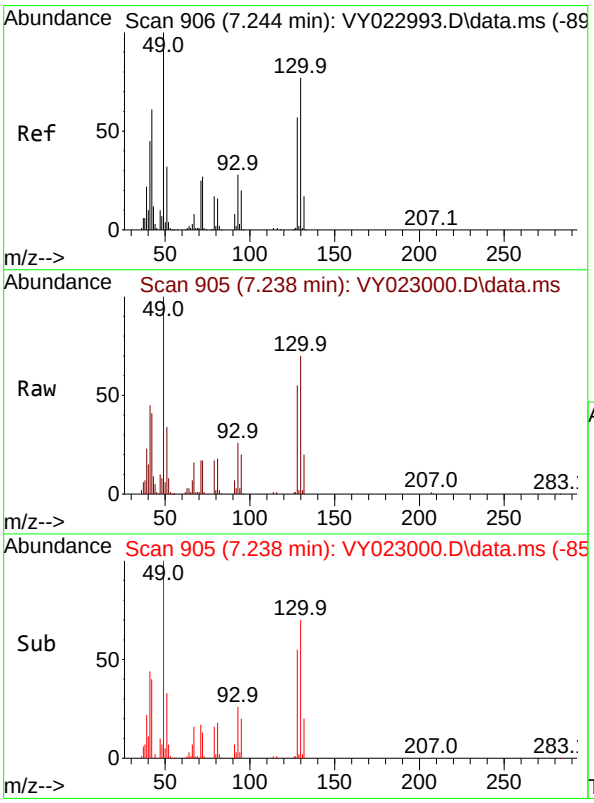
#27
cis-1,2-Dichloroethene
Concen: 20.923 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 96 Resp: 125924

Ion	Ratio	Lower	Upper
96	100		
61	142.2	0.0	286.2
98	62.9	0.0	127.4

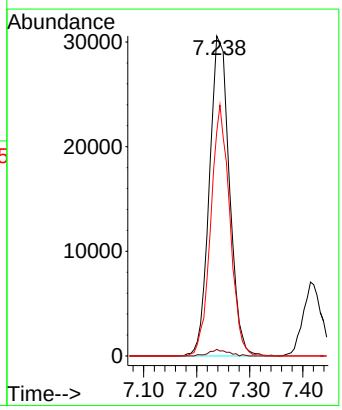


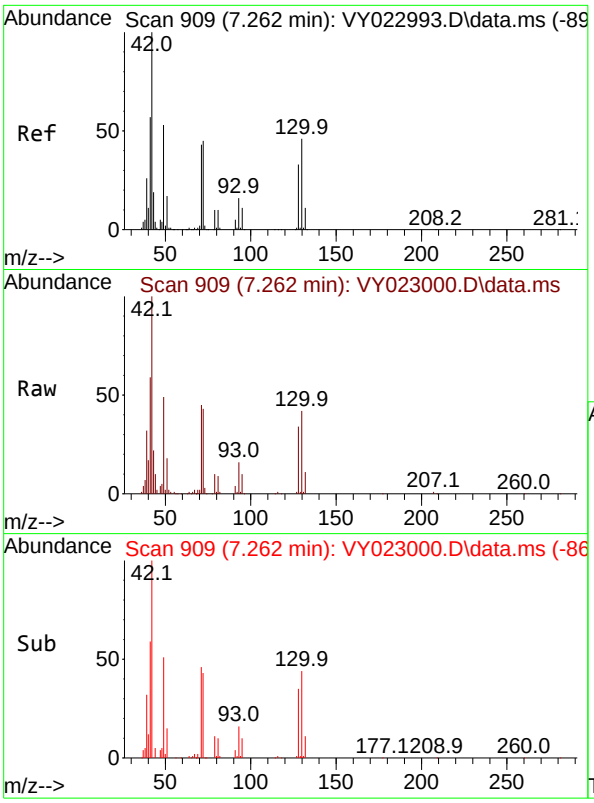


#28
Bromochloromethane
Concen: 21.706 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 49 Resp: 80178

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	74.6	61.8	92.8



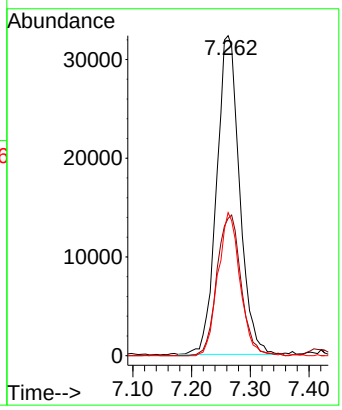


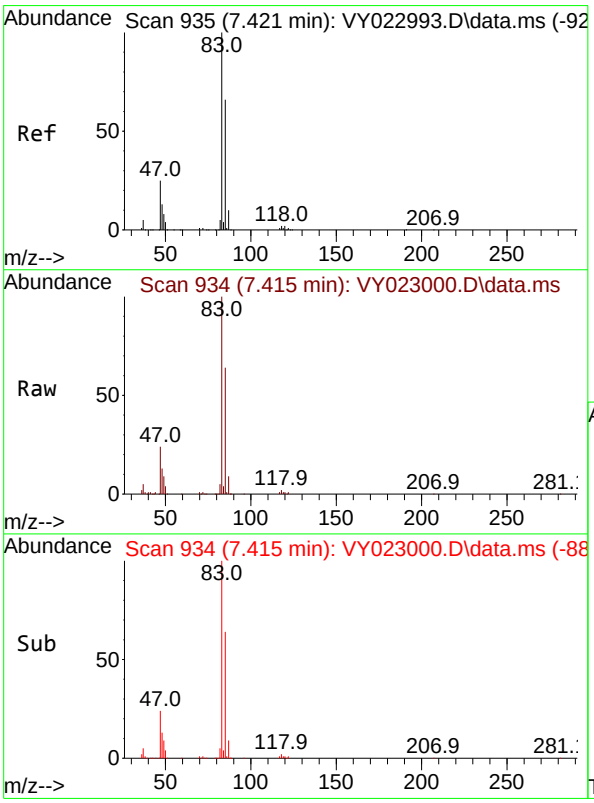
#29
Tetrahydrofuran
Concen: 119.115 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 42 Resp: 87651

Ion	Ratio	Lower	Upper
42	100		
72	46.5	37.5	56.3
71	43.4	34.2	51.4

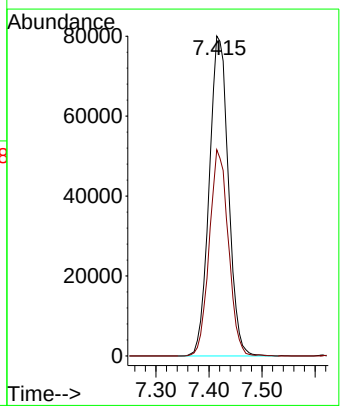


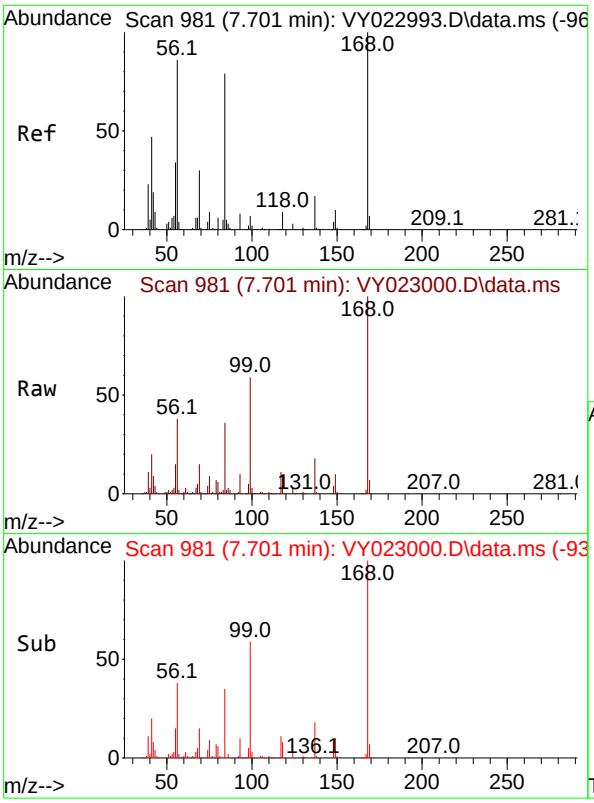


#30
Chloroform
Concen: 20.913 ug/l
RT: 7.415 min Scan# 934
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 83 Resp: 200917

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.6	78.8



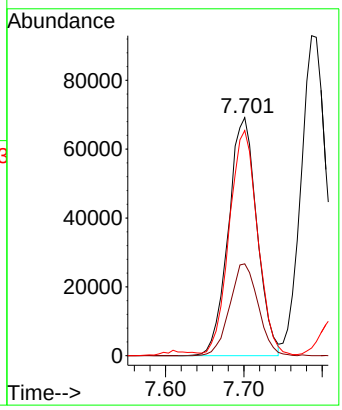


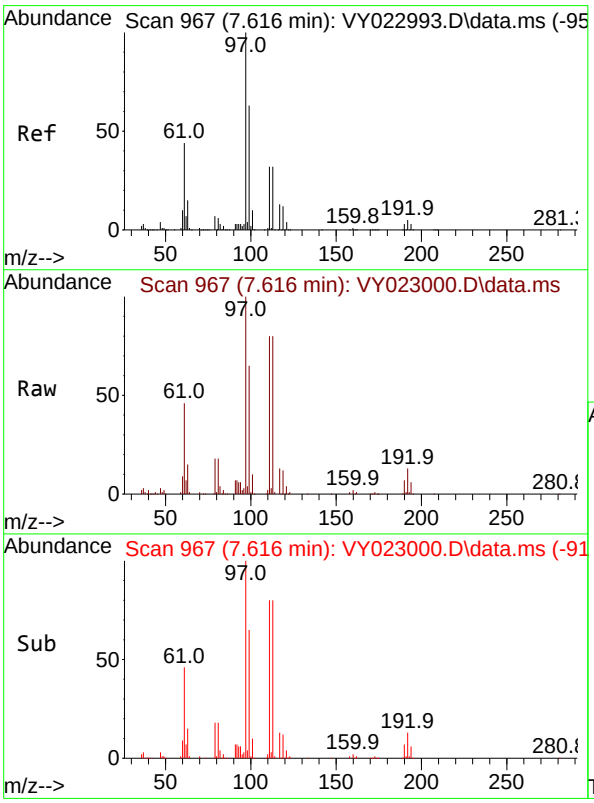
#31
Cyclohexane
Concen: 19.685 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 56 Resp: 175169

Ion	Ratio	Lower	Upper
56	100		
69	38.5	28.1	42.1
84	93.0	73.5	110.3

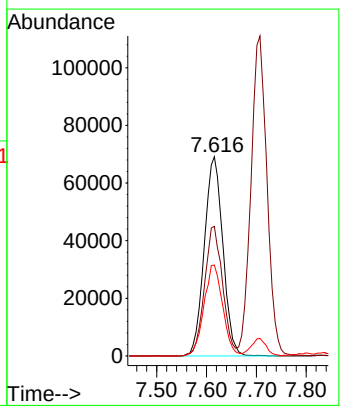


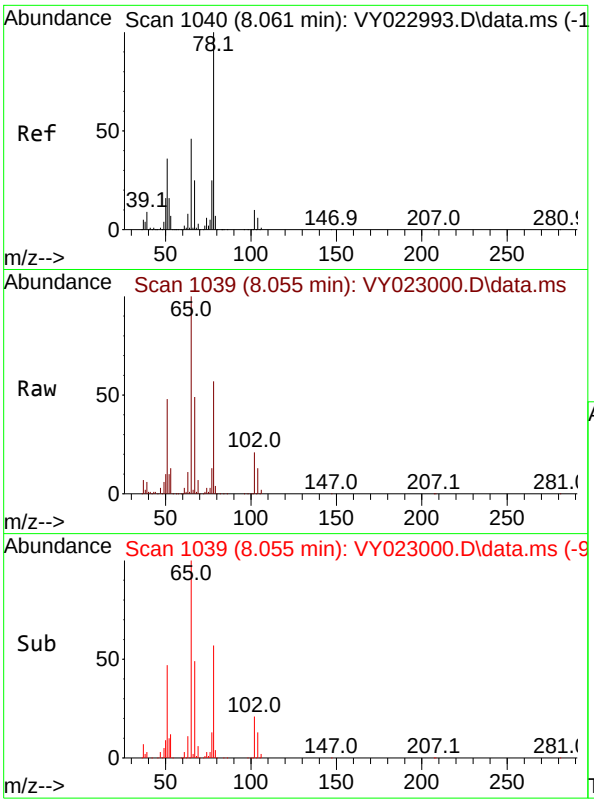


#32
1,1,1-Trichloroethane
Concen: 20.544 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 97 Resp: 179081

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.1	76.7
61	46.0	36.1	54.1



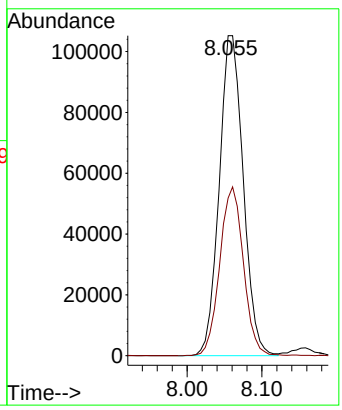


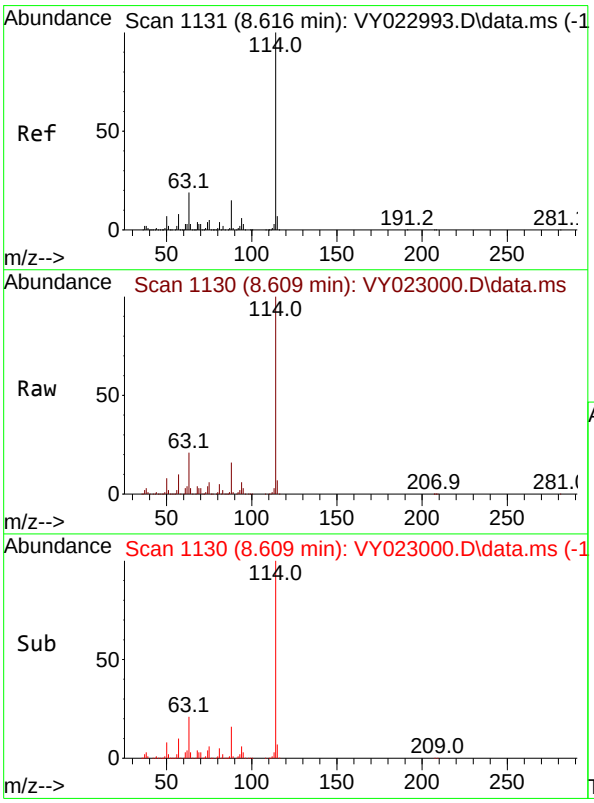
#33
1,2-Dichloroethane-d4
Concen: 52.647 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 65 Resp: 235302

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	107.4

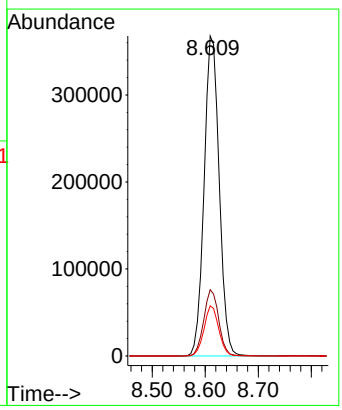


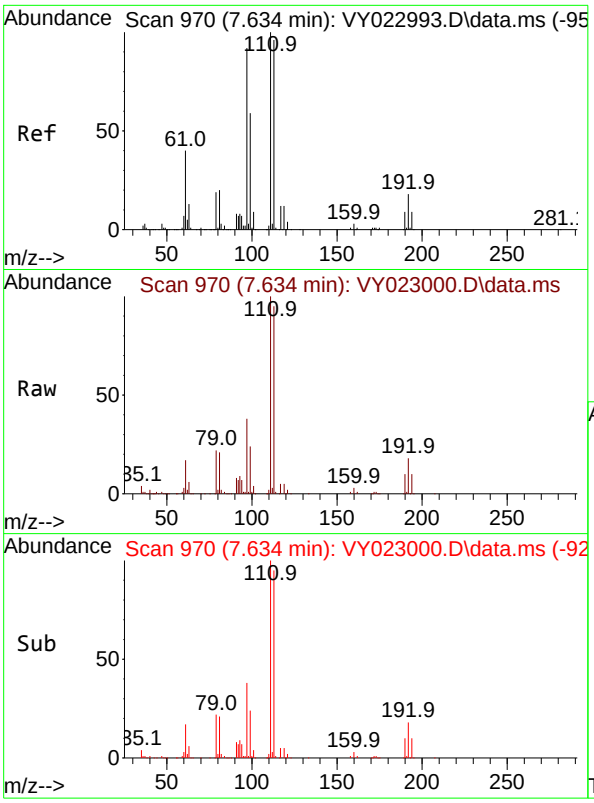


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:114 Resp: 726763

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	38.8
88	15.6	0.0	30.2



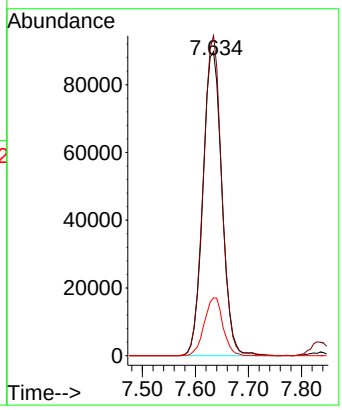


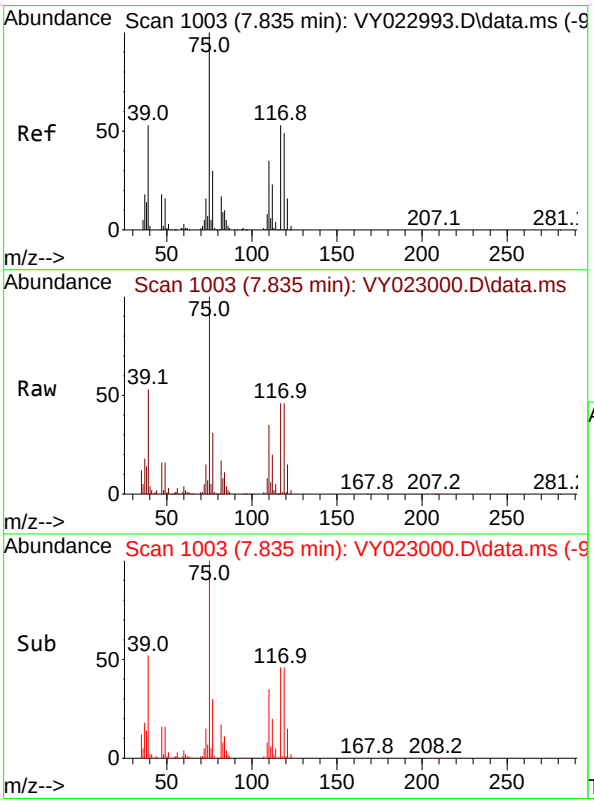
#35
Dibromofluoromethane
Concen: 48.446 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:113 Resp: 223340

Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.2	124.8
192	18.7	15.3	22.9

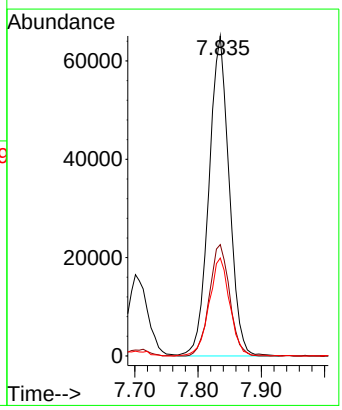


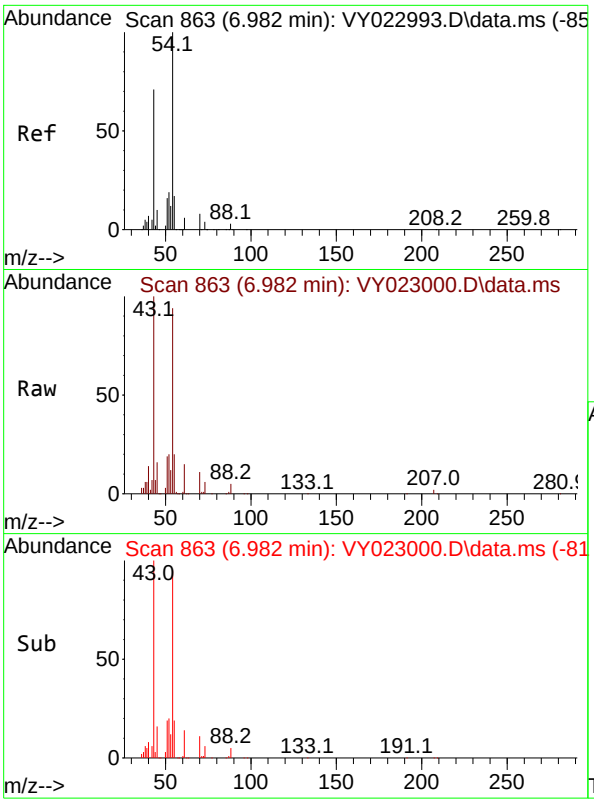


#36
1,1-Dichloropropene
Concen: 19.906 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 144552

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.3	51.9
77	31.3	24.6	37.0



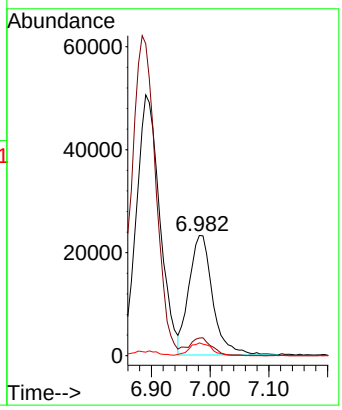


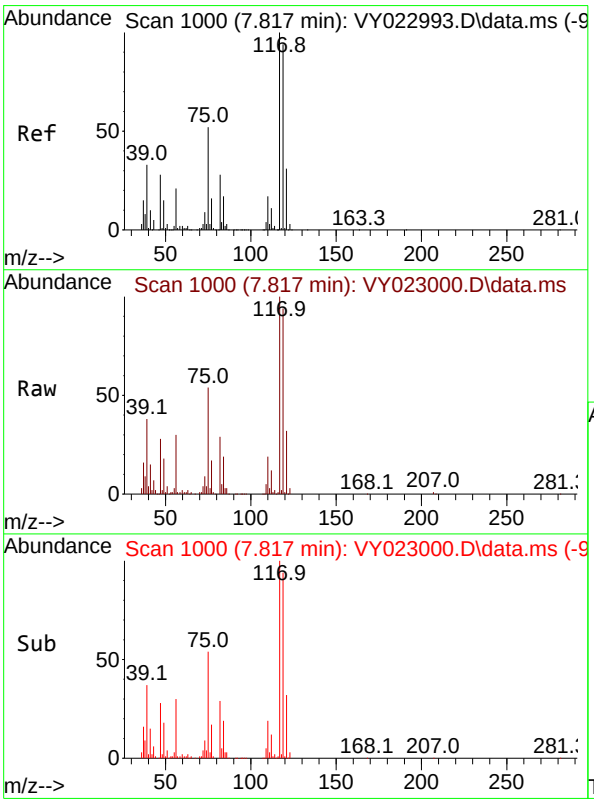
#37
Ethyl Acetate
Concen: 24.125 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 43 Resp: 65064

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.6	17.4
70	10.2	8.5	12.7

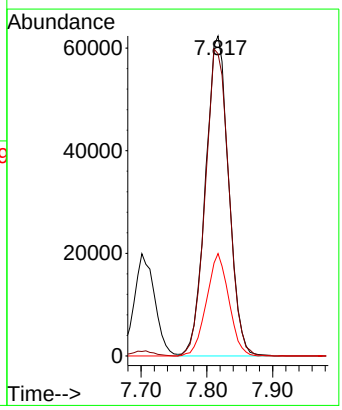


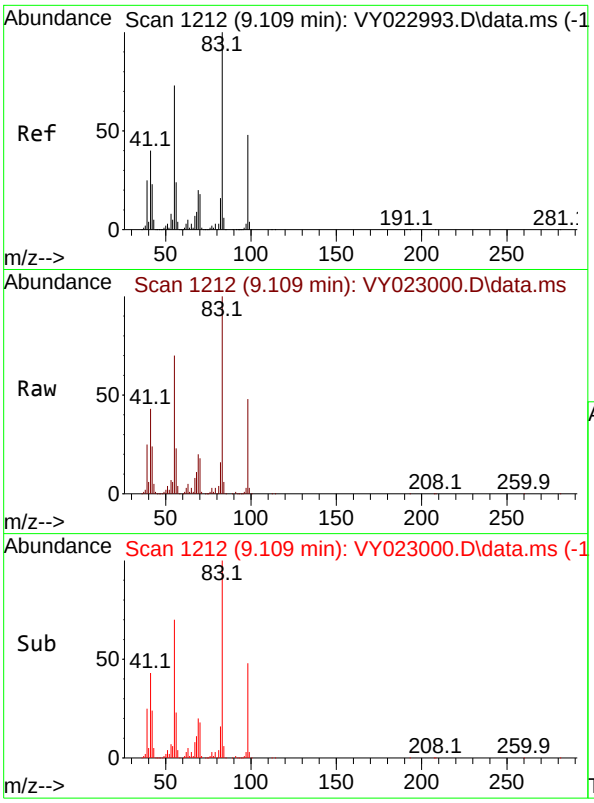


#38
Carbon Tetrachloride
Concen: 19.332 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:117 Resp: 152517

Ion	Ratio	Lower	Upper
117	100		
119	94.4	74.9	112.3
121	32.0	24.6	37.0



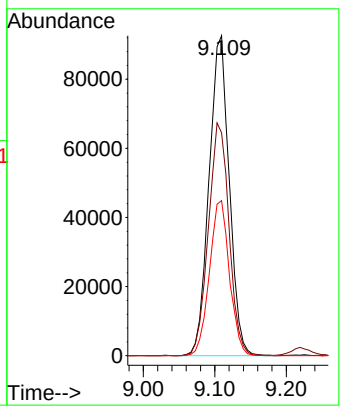


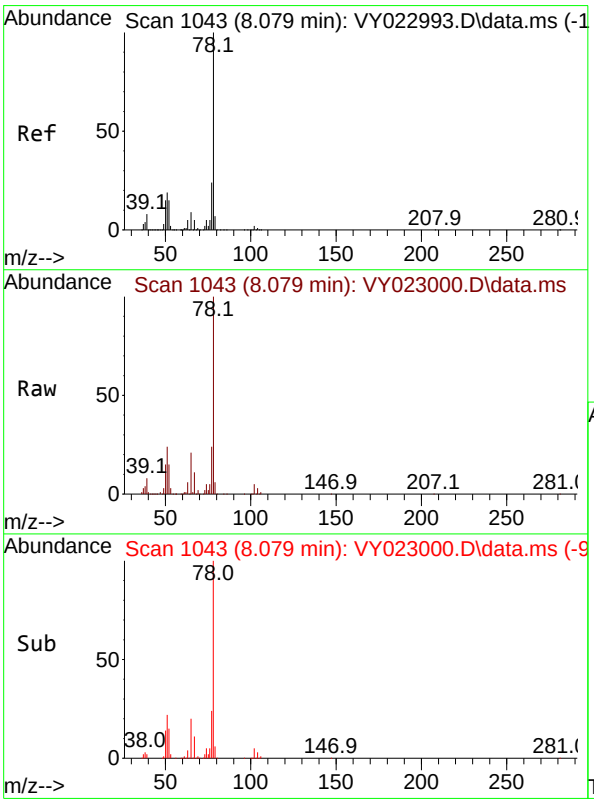
#39
Methylcyclohexane
Concen: 19.311 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 83 Resp: 181502

Ion	Ratio	Lower	Upper
83	100		
55	69.7	58.1	87.1
98	48.4	38.5	57.7

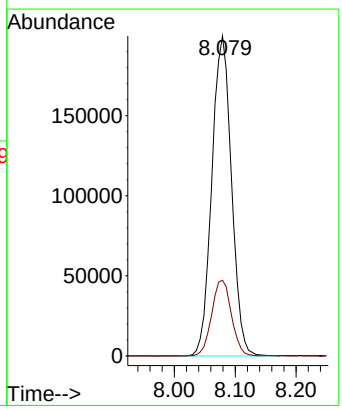


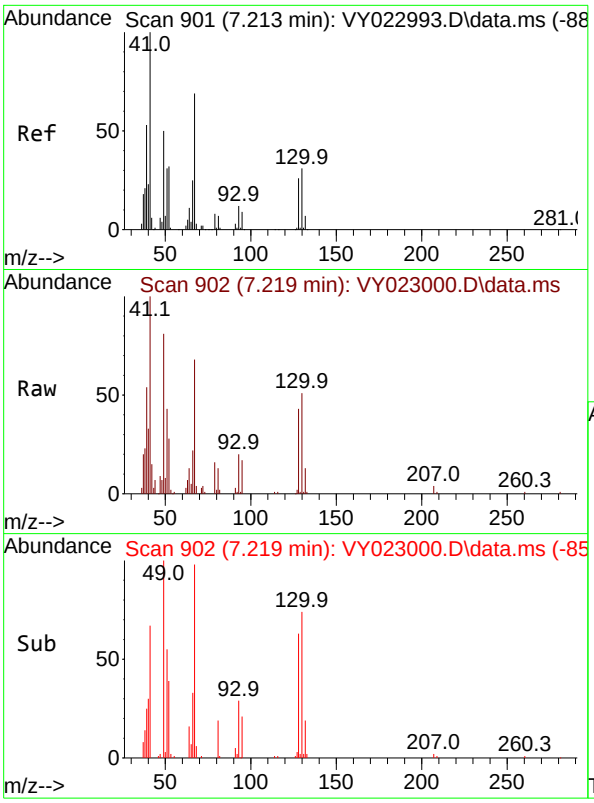


#40
Benzene
Concen: 20.447 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 78 Resp: 447067

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4



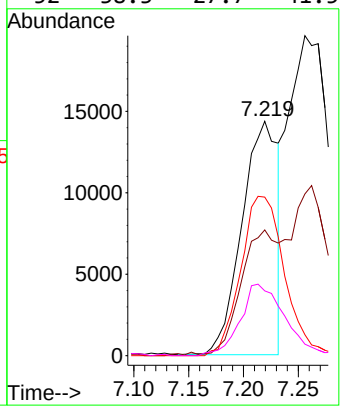


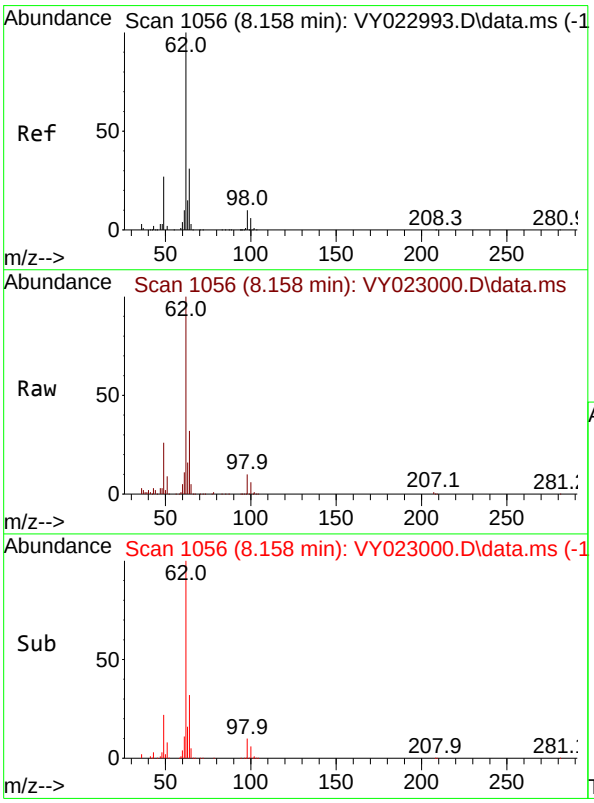
#41
Methacrylonitrile
Concen: 22.247 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 41 Resp: 32685

Ion	Ratio	Lower	Upper
41	100		
39	54.0	50.0	75.0
67	83.2	65.4	98.2
52	38.3	27.7	41.5

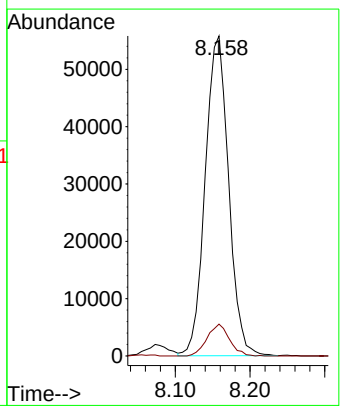


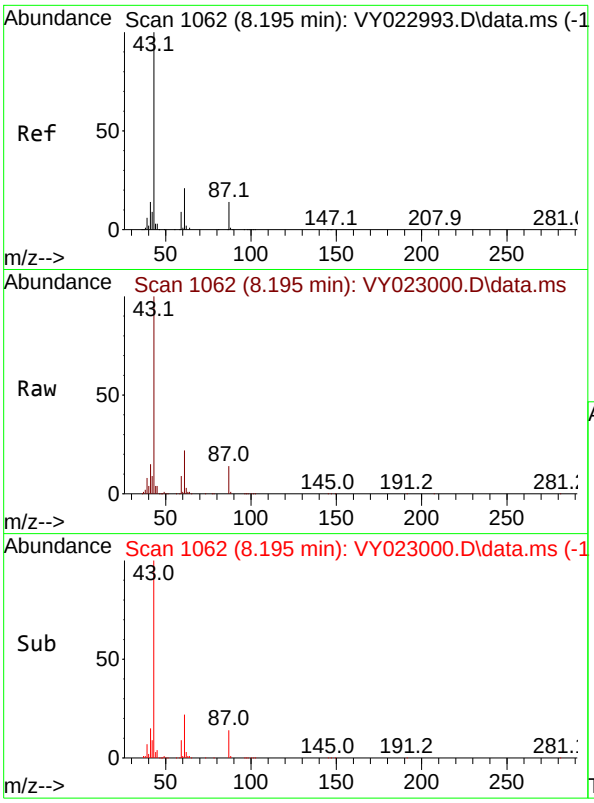


#42
1,2-Dichloroethane
Concen: 22.289 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 62 Resp: 121246

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0



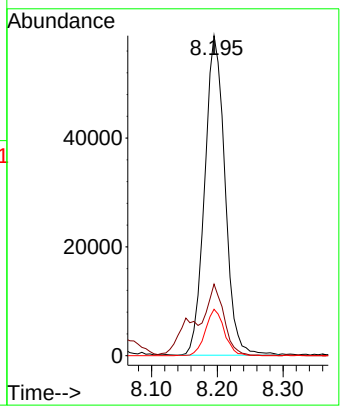


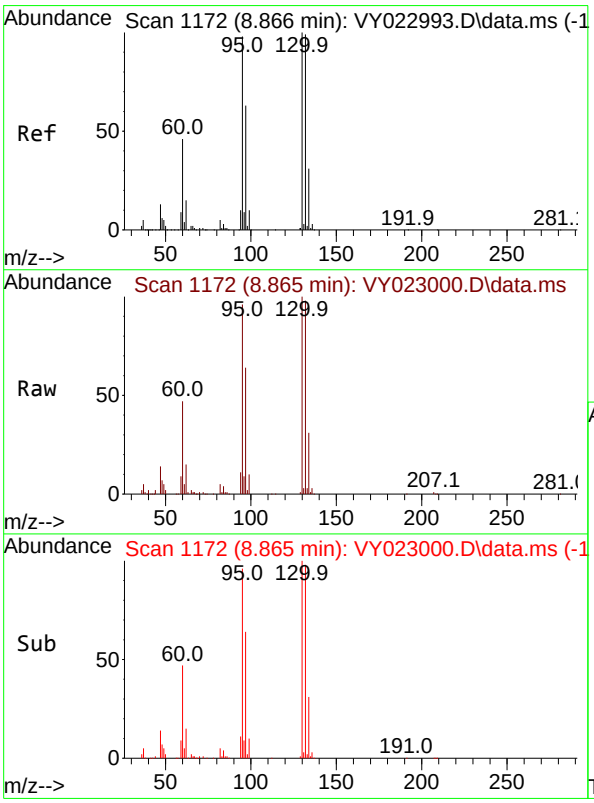
#43
Isopropyl Acetate
Concen: 23.495 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 43 Resp: 125867

Ion	Ratio	Lower	Upper
43	100		
61	19.9	25.0	37.4#
87	13.7	11.1	16.7

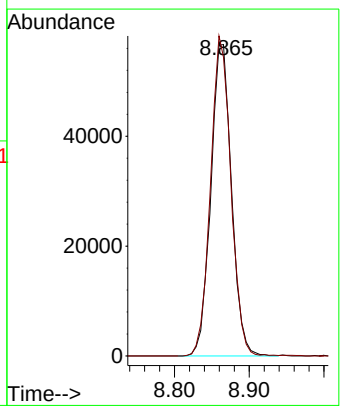


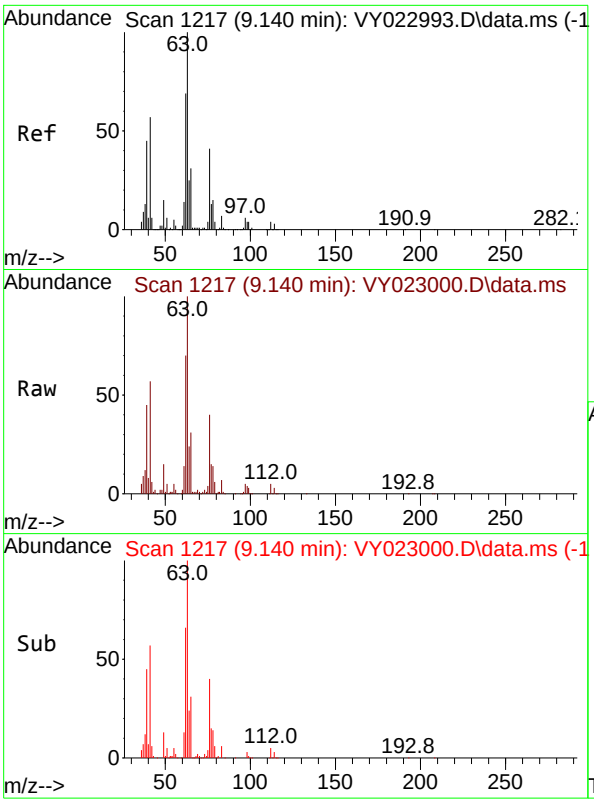


#44
Trichloroethene
Concen: 19.425 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:130 Resp: 109088

Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	195.8



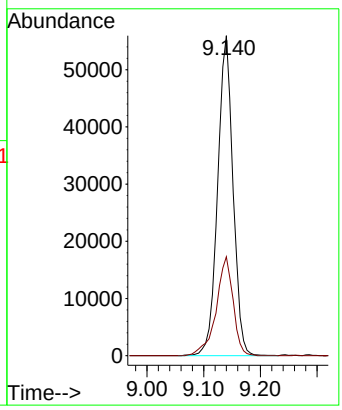


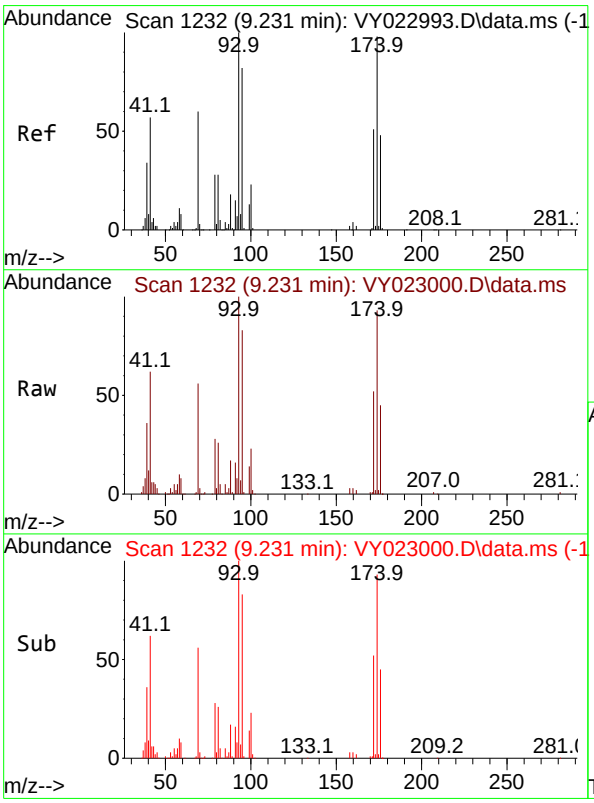
#45
1,2-Dichloropropane
Concen: 20.636 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 63 Resp: 105365

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	37.0

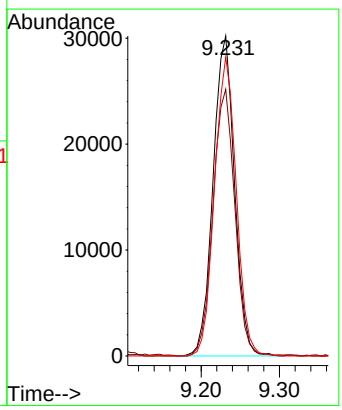


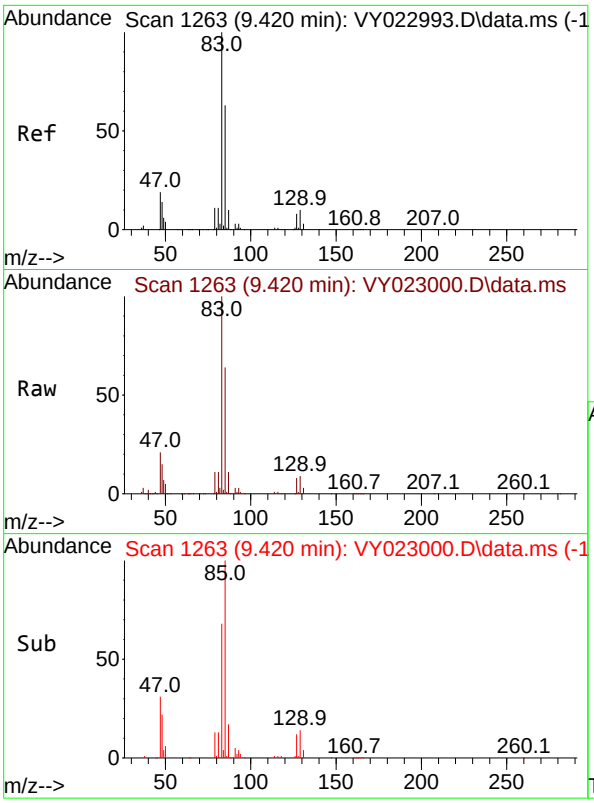


#46
Dibromomethane
Concen: 21.784 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 93 Resp: 57491

Ion	Ratio	Lower	Upper
93	100		
95	85.0	65.9	98.9
174	94.7	76.4	114.6



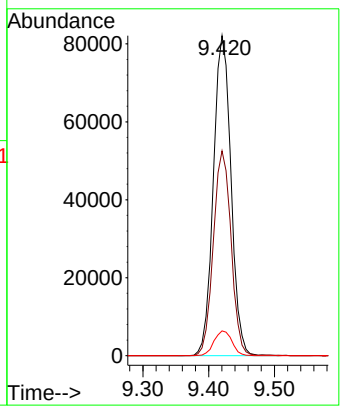


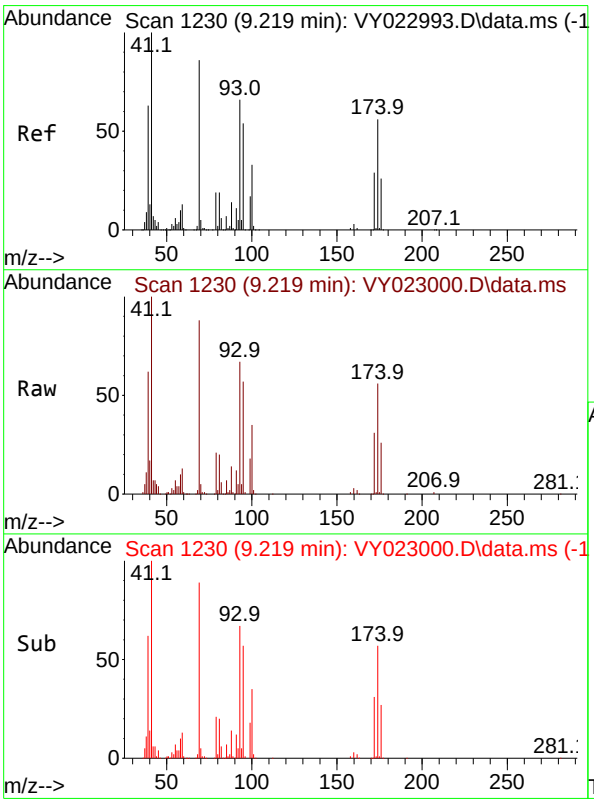
#47
Bromodichloromethane
Concen: 20.974 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 83 Resp: 153006

Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.6	75.8
127	7.8	6.5	9.7

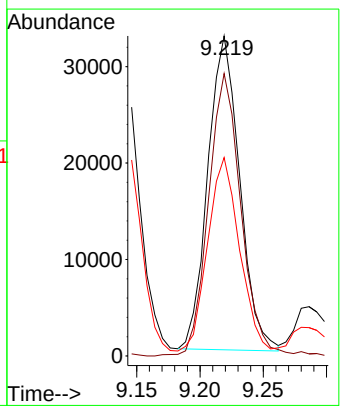


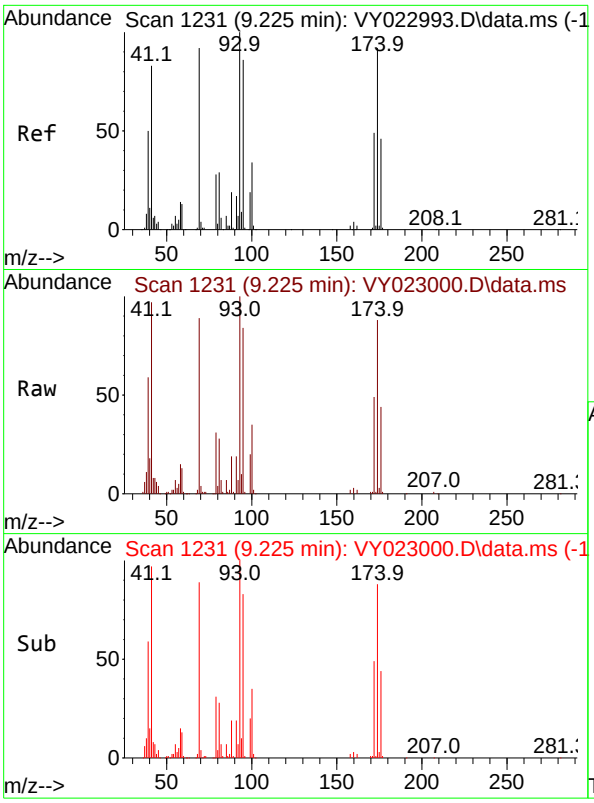


#48
Methyl methacrylate
Concen: 22.024 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 41 Resp: 56963

Ion	Ratio	Lower	Upper
41	100		
69	92.1	71.4	107.0
39	61.7	47.8	71.8



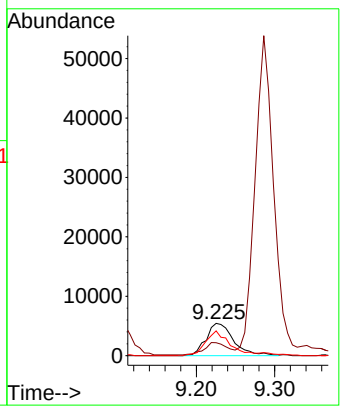


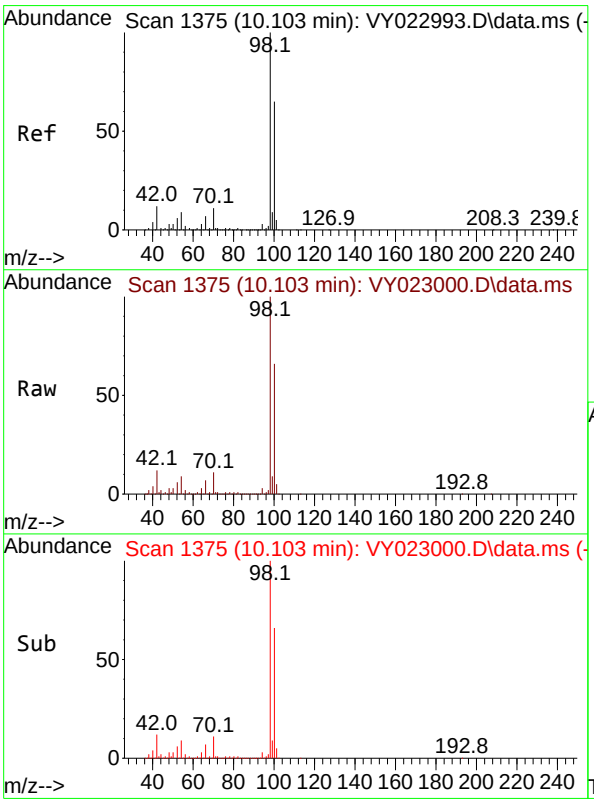
#49
1,4-Dioxane
Concen: 477.259 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 88 Resp: 13277

Ion	Ratio	Lower	Upper
88	100		
43	32.4	28.7	43.1
58	67.7	59.8	89.6

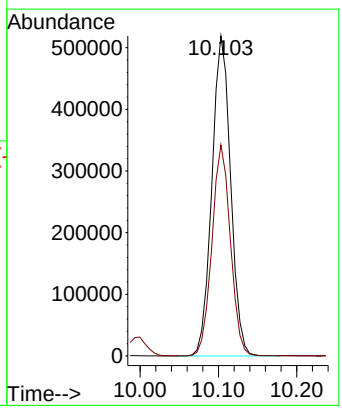


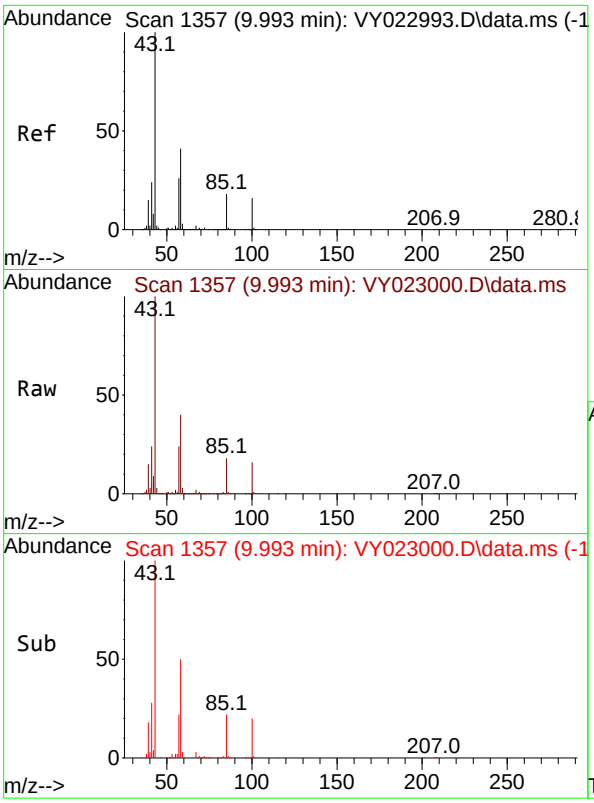


#50
Toluene-d8
Concen: 47.172 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 98 Resp: 862393

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2



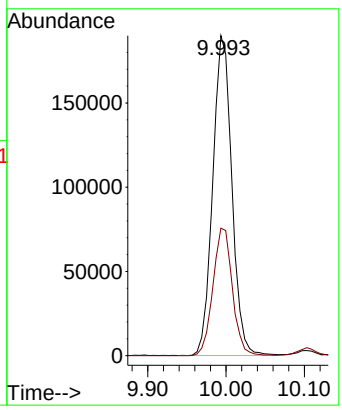


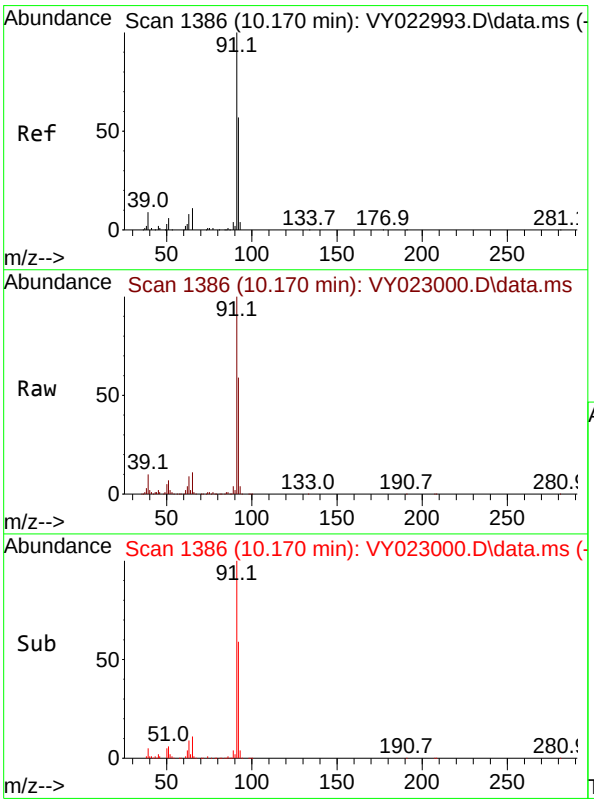
#51
4-Methyl-2-Pentanone
Concen: 118.388 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 43 Resp: 321913

Ion	Ratio	Lower	Upper
43	100		
58	40.7	32.5	48.7

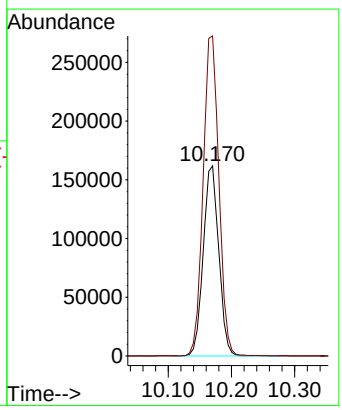


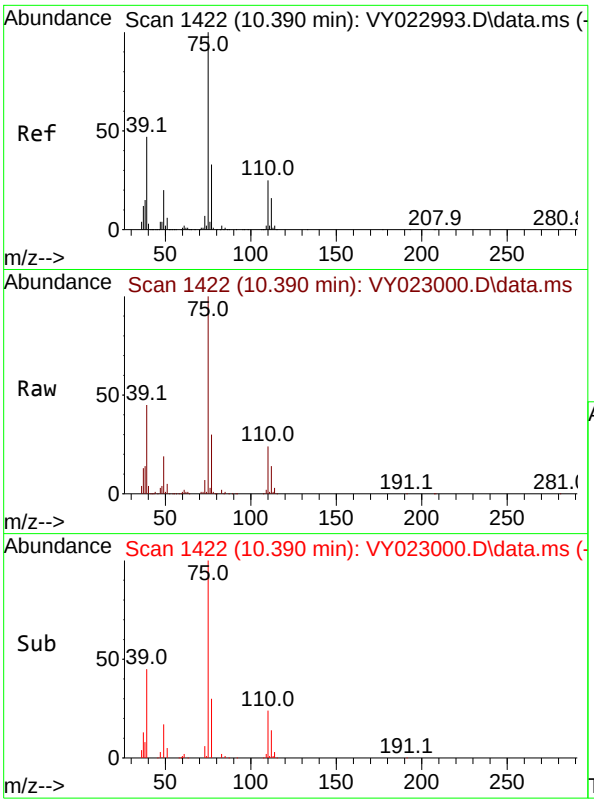


#52
Toluene
Concen: 20.370 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 92 Resp: 276910

Ion	Ratio	Lower	Upper
92	100		
91	170.8	137.8	206.6



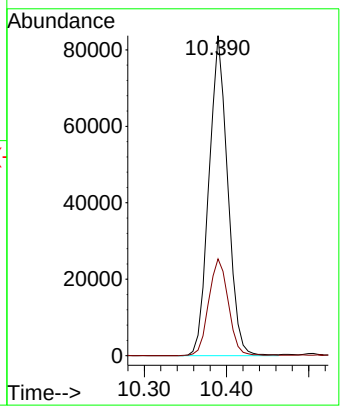


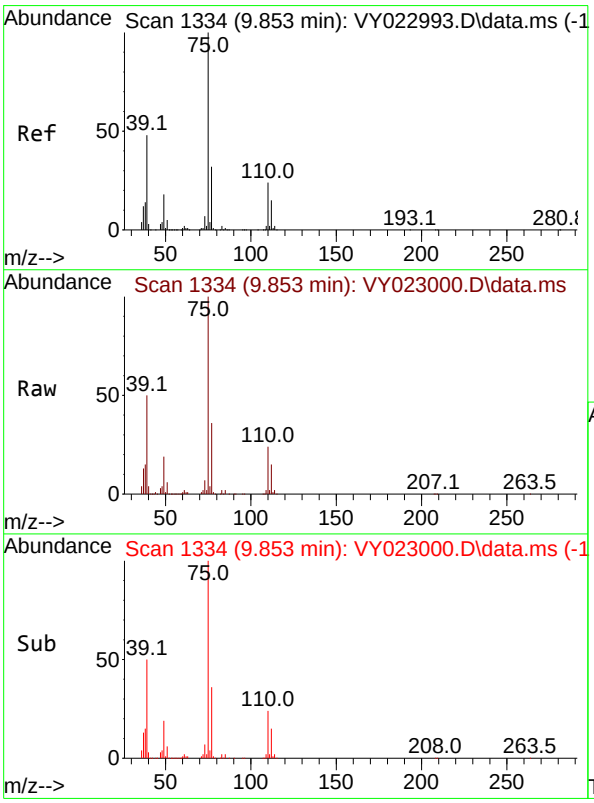
#53
t-1,3-Dichloropropene
Concen: 21.174 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 75 Resp: 132598

Ion	Ratio	Lower	Upper
75	100		
77	30.3	26.4	39.6

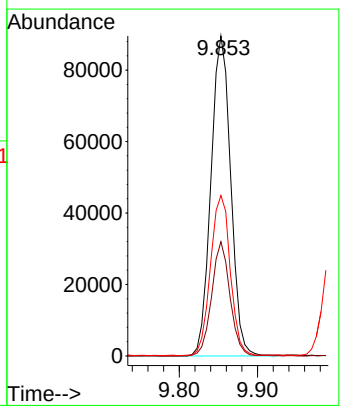


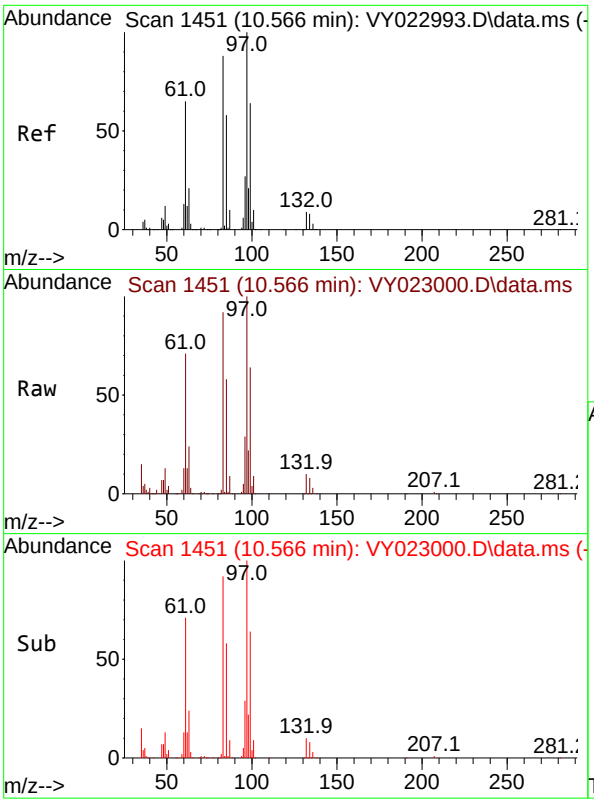


#54
cis-1,3-Dichloropropene
Concen: 20.791 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 156932

Ion	Ratio	Lower	Upper
75	100		
77	35.7	25.4	38.0
39	50.1	38.2	57.2



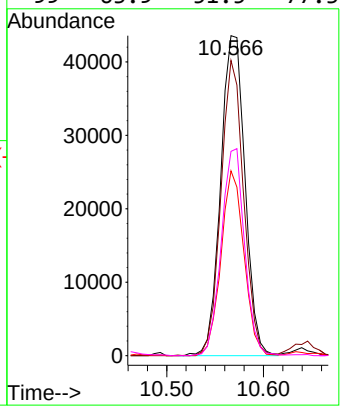


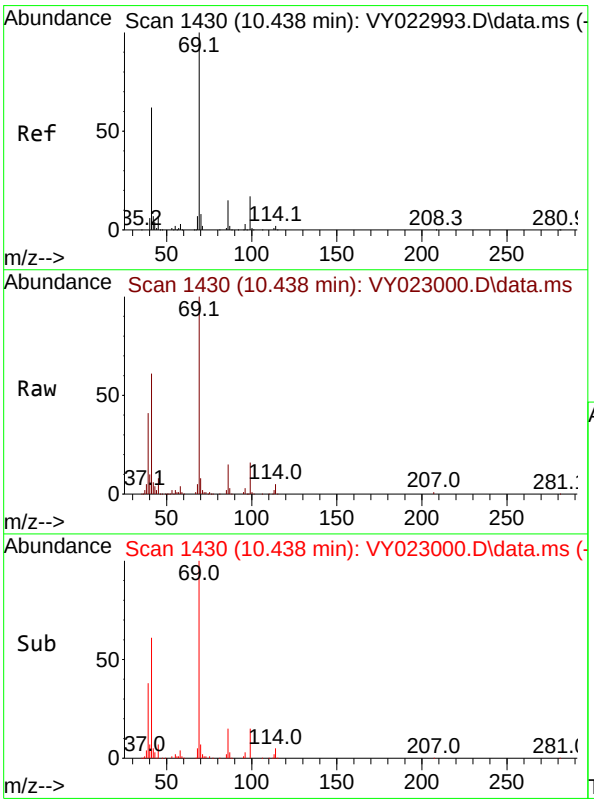
#55
1,1,2-Trichloroethane
Concen: 21.939 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 97 Resp: 76101

Ion	Ratio	Lower	Upper
97	100		
83	92.1	70.2	105.2
85	57.8	46.2	69.2
99	63.9	51.5	77.3

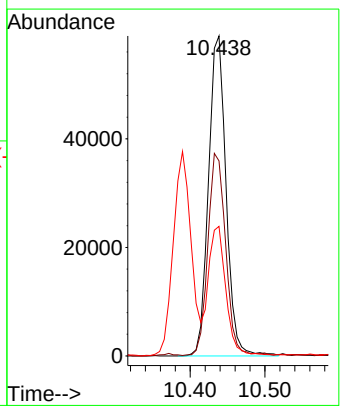


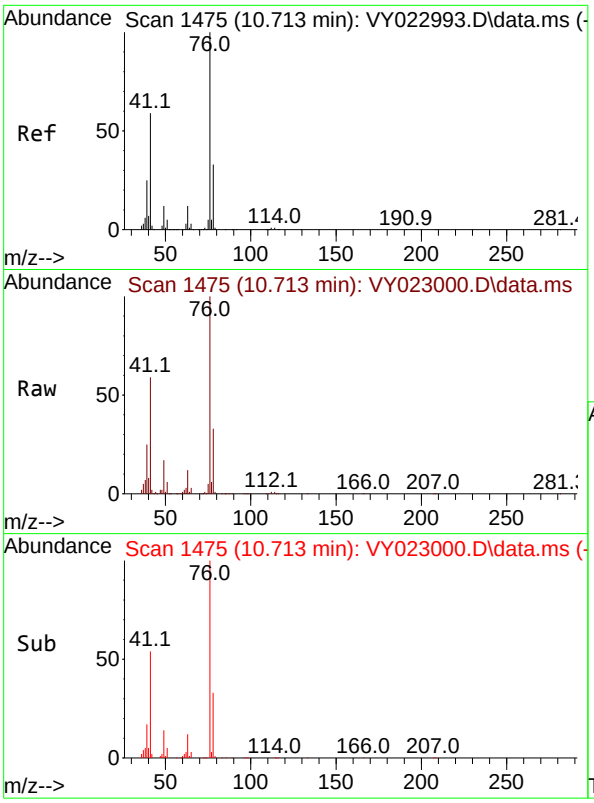


#56
Ethyl methacrylate
Concen: 22.265 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 69 Resp: 96413

Ion	Ratio	Lower	Upper
69	100		
41	63.5	51.0	76.4
39	39.9	30.6	46.0



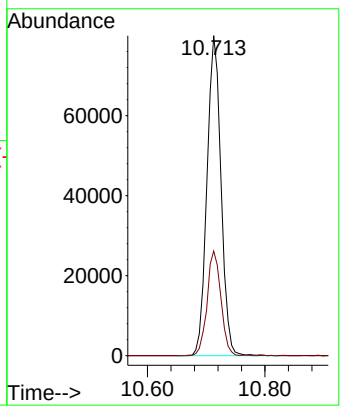


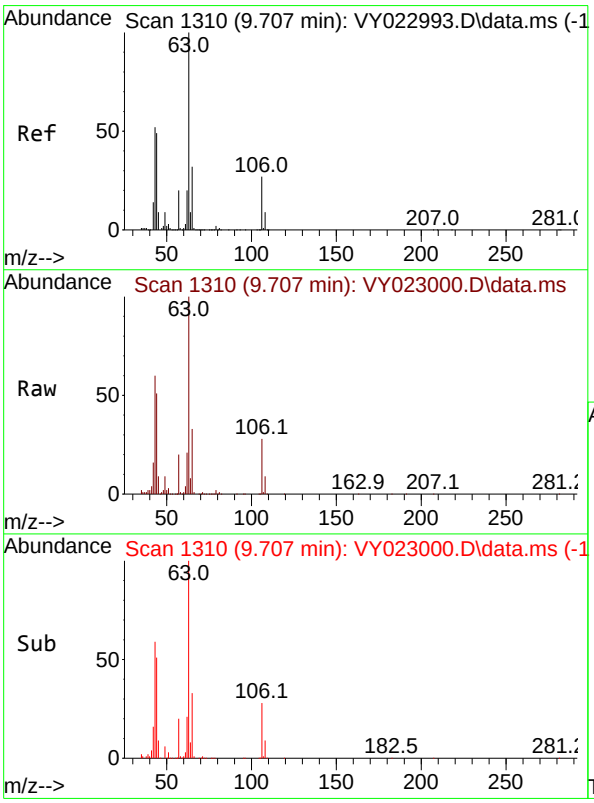
#57
1,3-Dichloropropane
Concen: 22.114 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 76 Resp: 132512

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.6	39.8

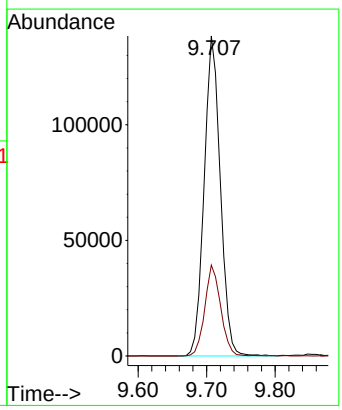


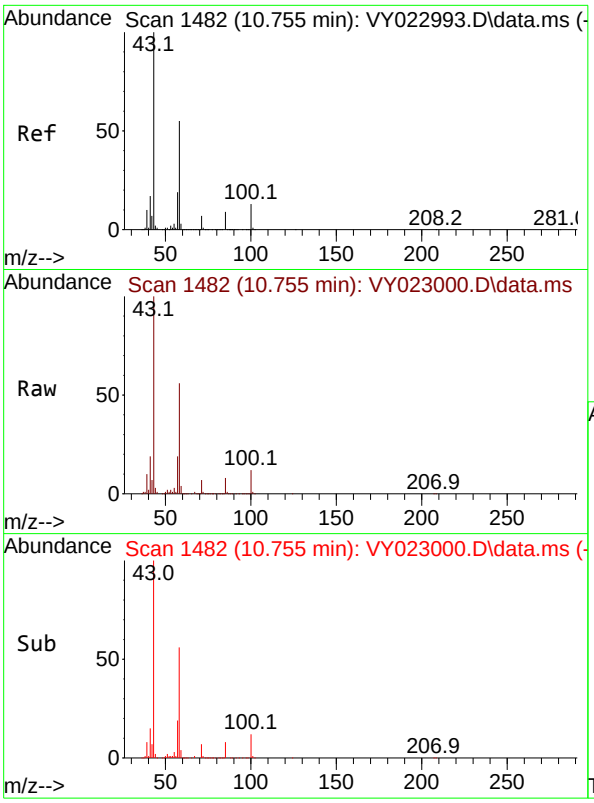


#58
2-Chloroethyl Vinyl ether
Concen: 107.314 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 63 Resp: 227470

Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.6	33.8



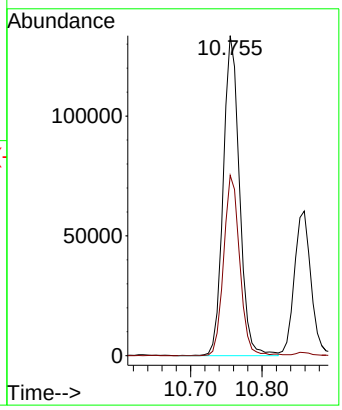


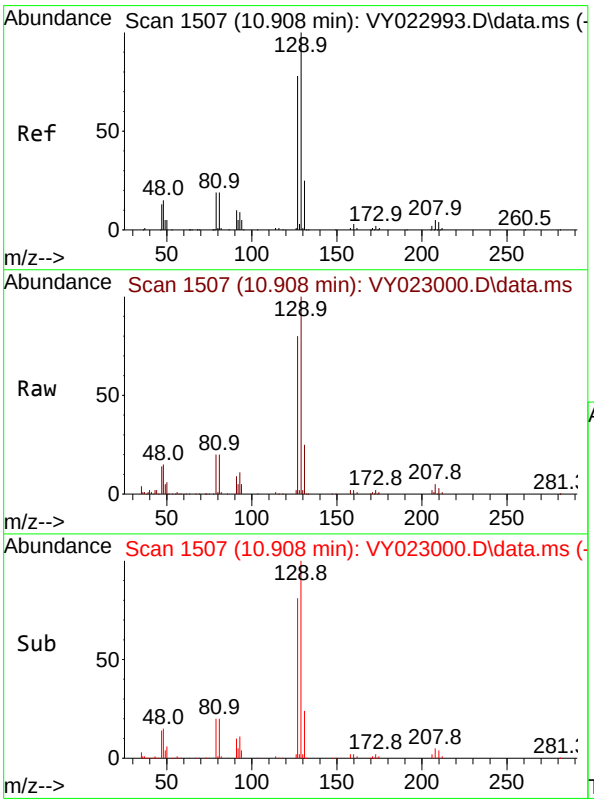
#59
2-Hexanone
Concen: 118.246 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 43 Resp: 211344

Ion	Ratio	Lower	Upper
43	100		
58	55.7	28.1	84.3

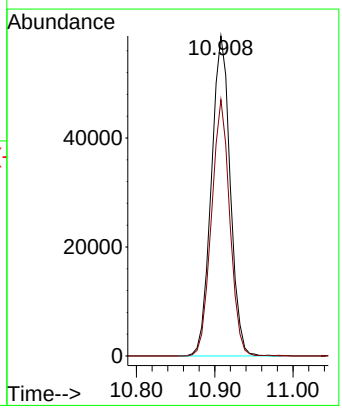


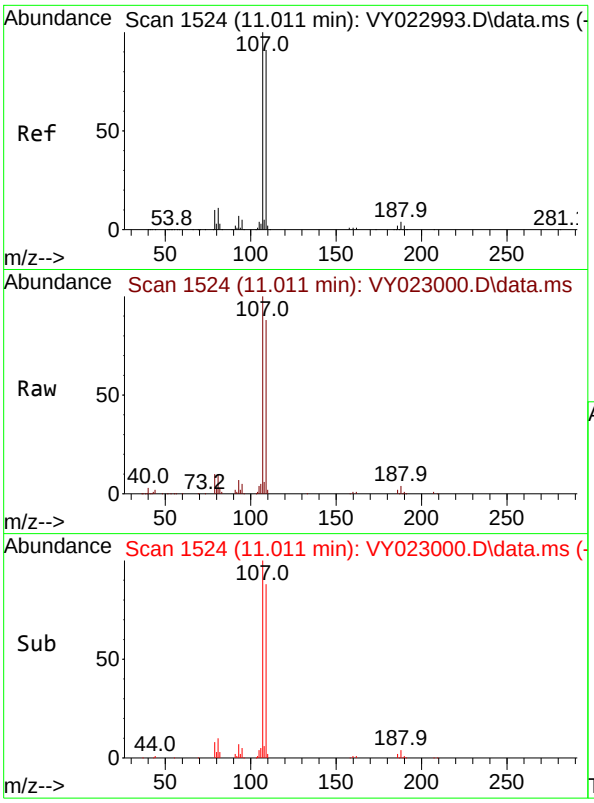


#60
Dibromochloromethane
Concen: 21.663 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:129 Resp: 98399

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.7	116.1



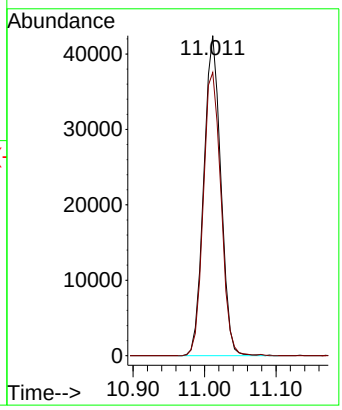


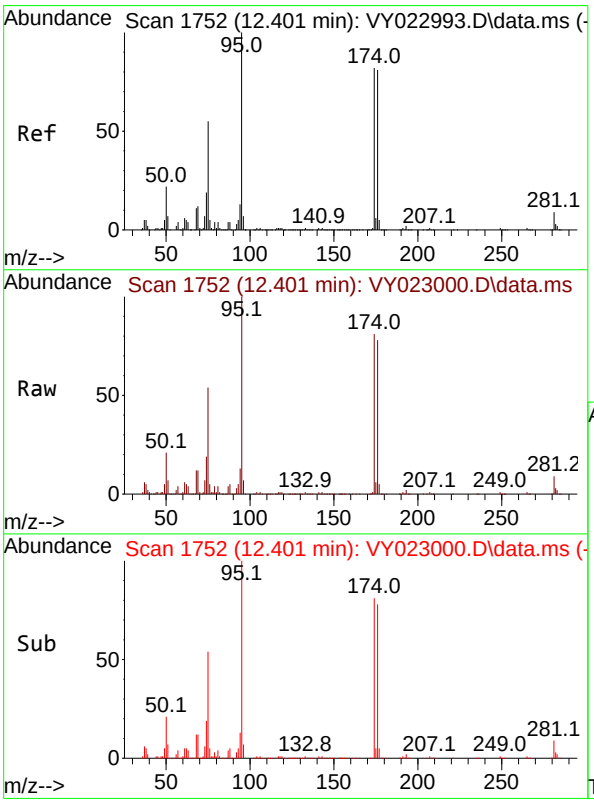
#61
1,2-Dibromoethane
Concen: 22.273 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:107 Resp: 70161

Ion	Ratio	Lower	Upper
107	100		
109	91.6	75.1	112.7

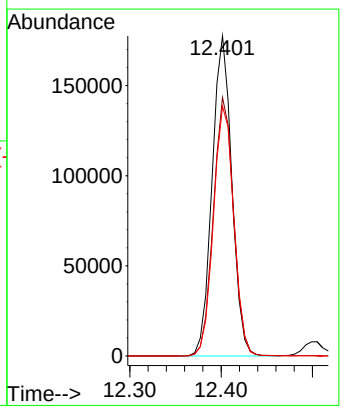


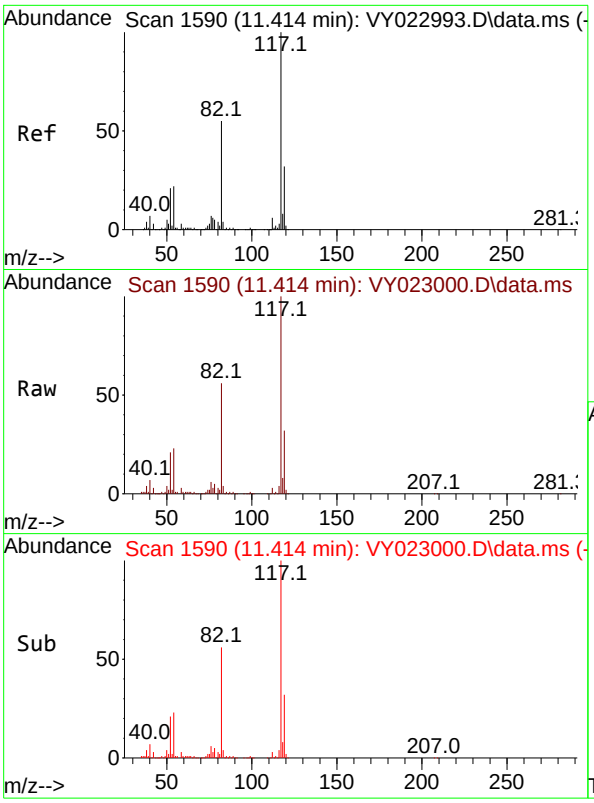


#62
4-Bromofluorobenzene
Concen: 46.158 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 95 Resp: 265634

Ion	Ratio	Lower	Upper
95	100		
174	82.9	0.0	170.8
176	80.6	0.0	163.6



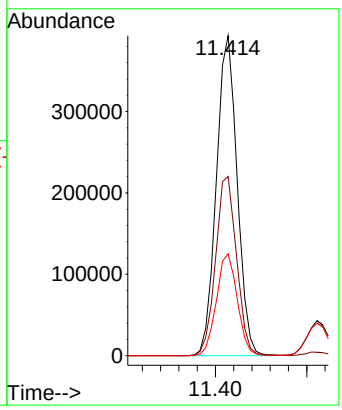


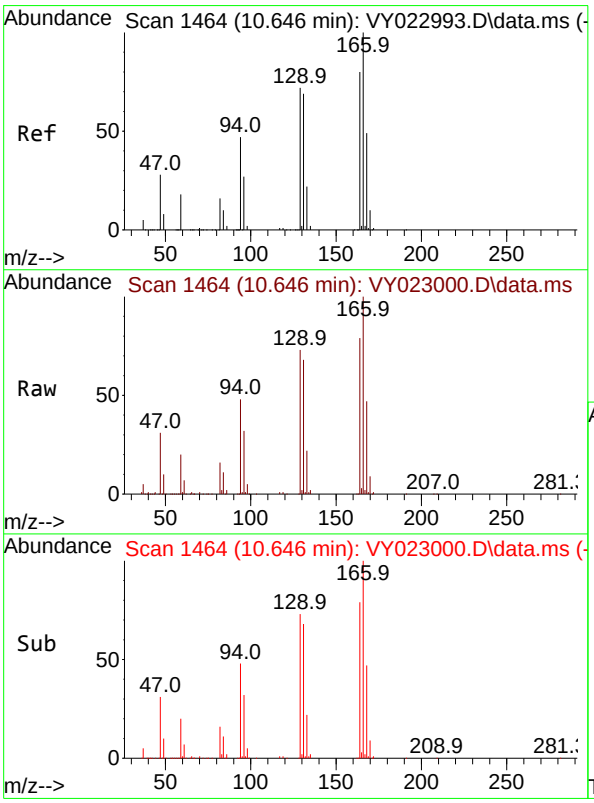
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:117 Resp: 622024

Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.3	66.5
119	31.9	25.8	38.8

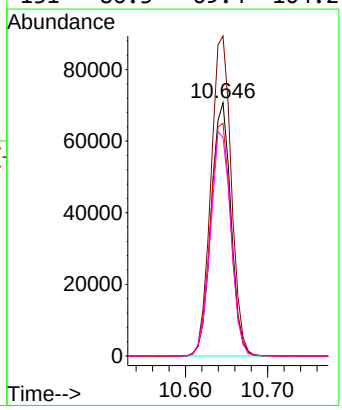


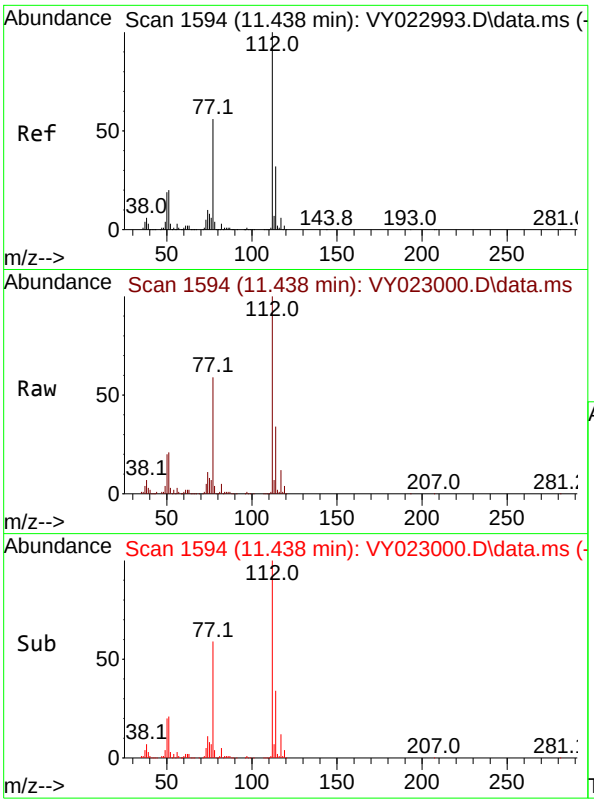


#64
Tetrachloroethene
Concen: 18.602 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:164 Resp: 118268

Ion	Ratio	Lower	Upper
164	100		
166	126.4	100.2	150.2
129	91.9	71.7	107.5
131	86.3	69.4	104.2



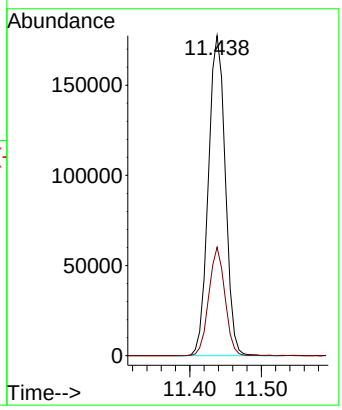


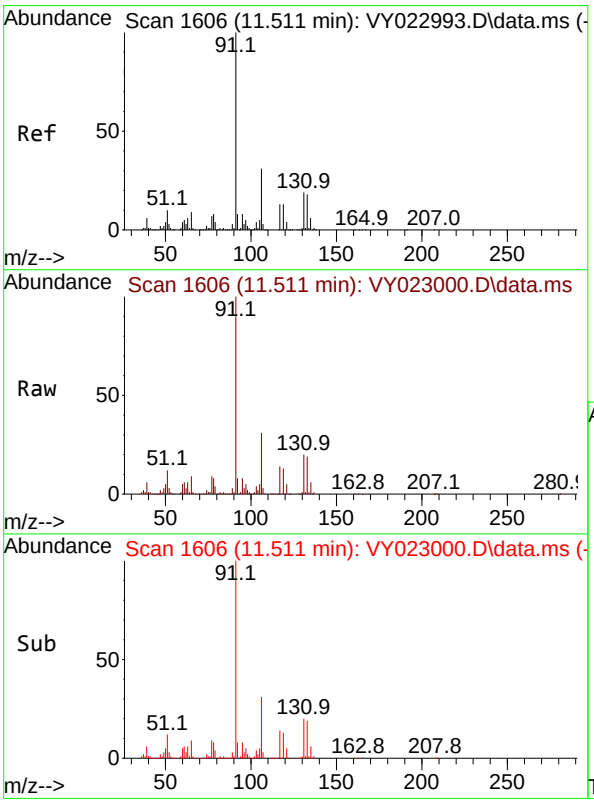
#65
Chlorobenzene
Concen: 19.871 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:112 Resp: 291672

Ion	Ratio	Lower	Upper
112	100		
114	33.9	25.4	38.2

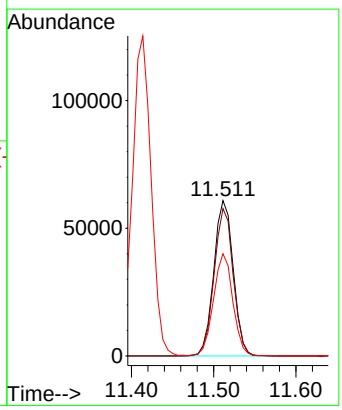


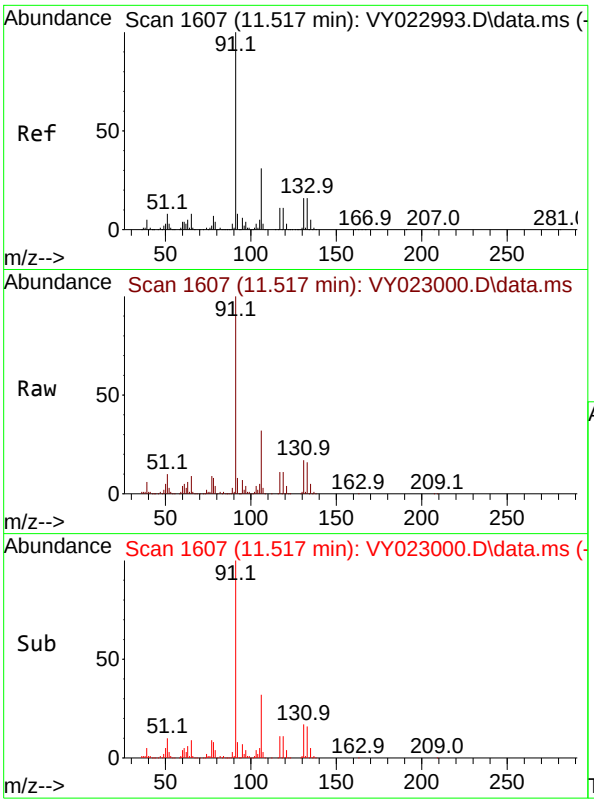


#66
1,1,1,2-Tetrachloroethane
Concen: 19.946 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:131 Resp: 99858

Ion	Ratio	Lower	Upper
131	100		
133	93.5	47.8	143.3
119	65.7	33.3	99.8



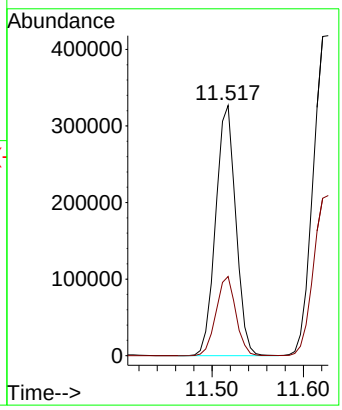


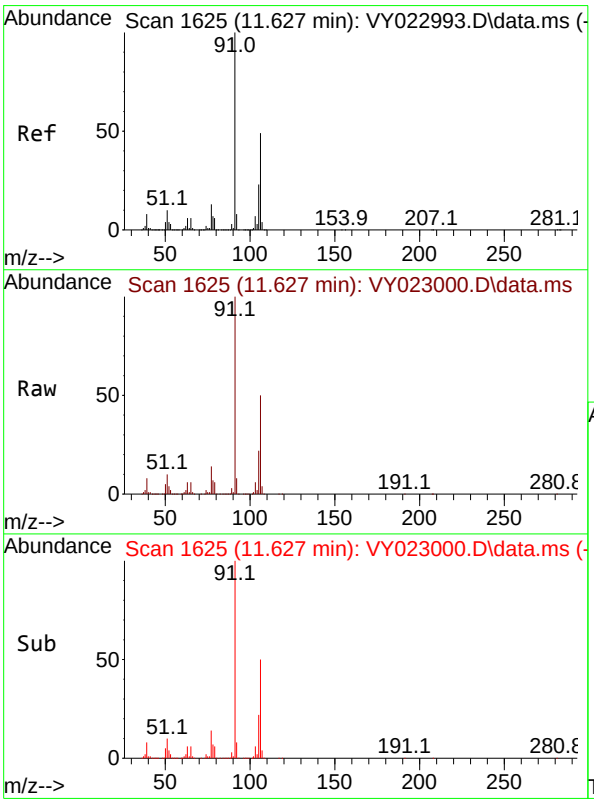
#67
Ethyl Benzene
Concen: 19.239 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 91 Resp: 500539

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	37.0

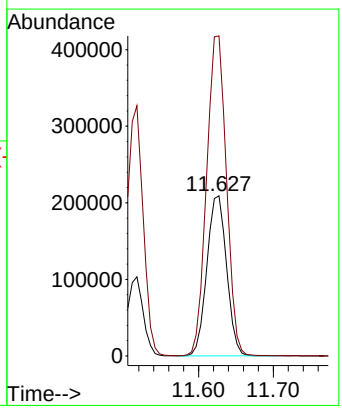


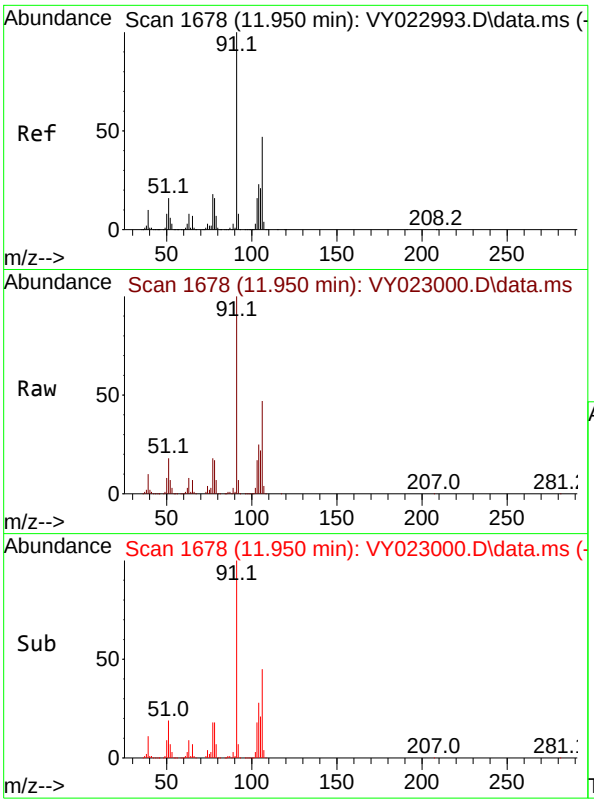


#68
m/p-Xylenes
Concen: 38.465 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:106 Resp: 383842

Ion	Ratio	Lower	Upper
106	100		
91	201.3	159.8	239.8



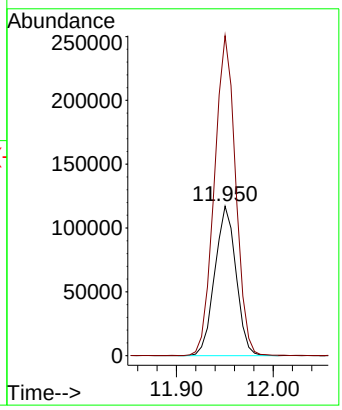


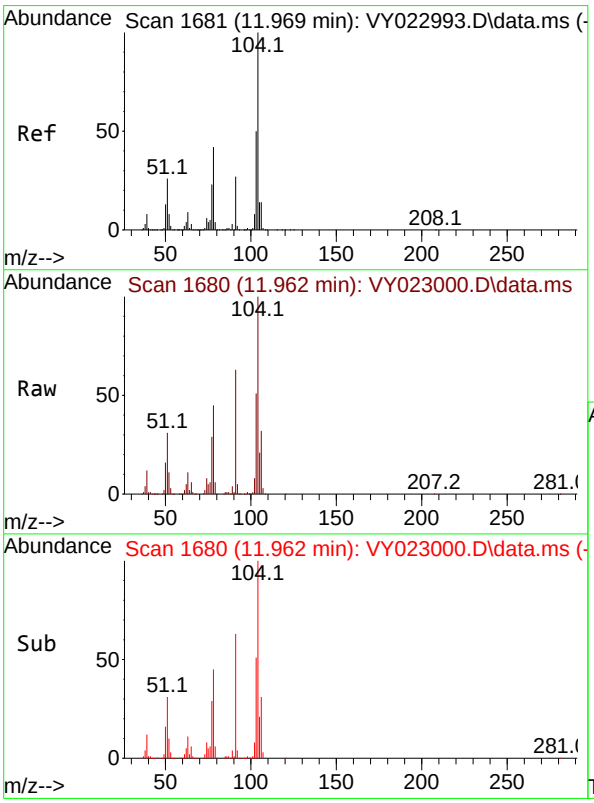
#69
o-Xylene
Concen: 19.266 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:106 Resp: 178419

Ion	Ratio	Lower	Upper
106	100		
91	214.3	106.3	318.8

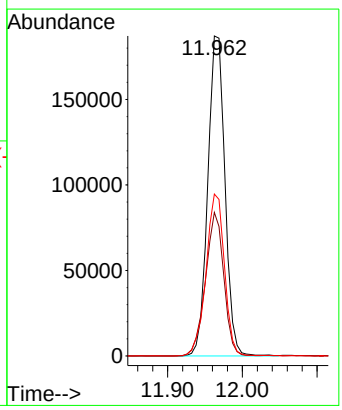


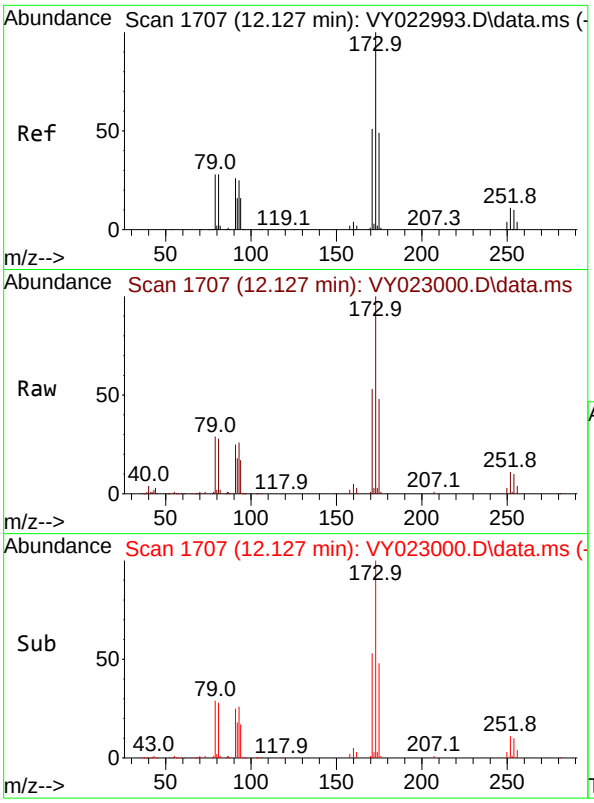


#70
Styrene
Concen: 19.729 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:104 Resp: 299288

Ion	Ratio	Lower	Upper
104	100		
78	47.9	39.0	58.6
103	54.4	43.7	65.5



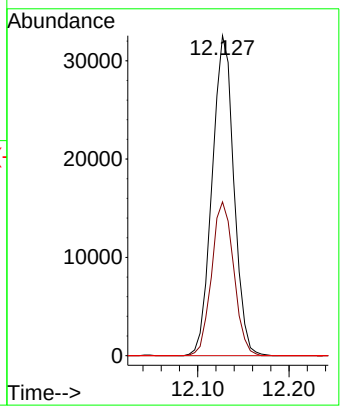


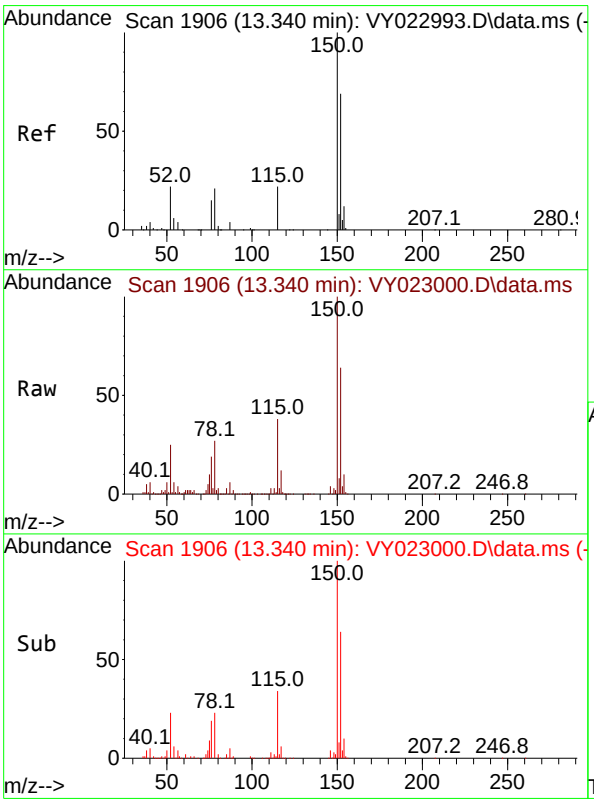
#71
Bromoform
Concen: 21.158 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:173 Resp: 53773

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.6	73.8
254	0.0	0.2	0.2#

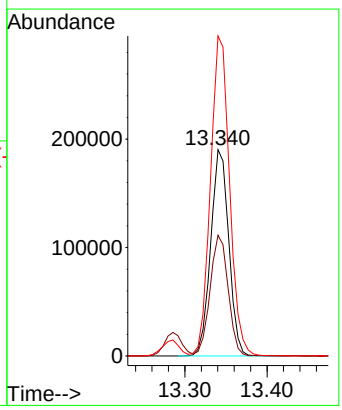


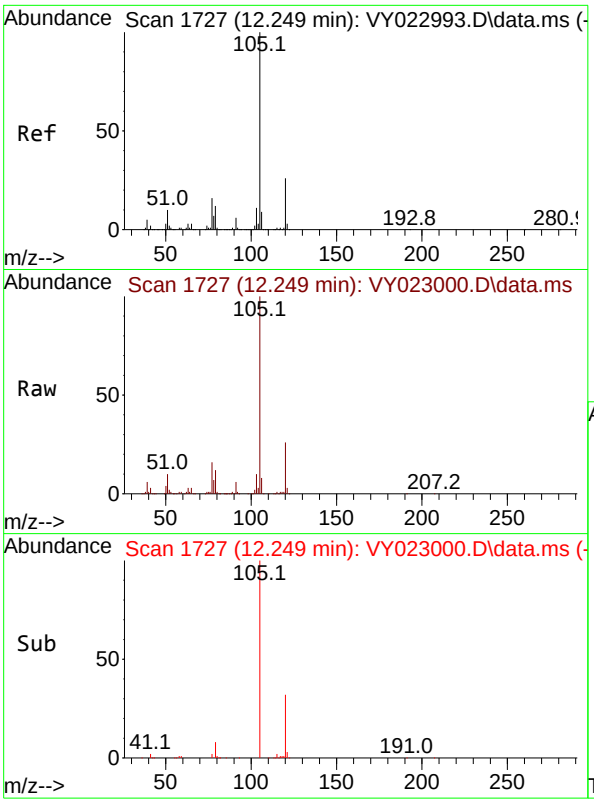


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:152 Resp: 290368

Ion	Ratio	Lower	Upper
152	100		
115	58.3	29.4	88.2
150	163.9	0.0	350.0



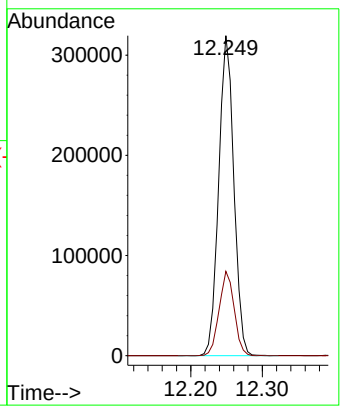


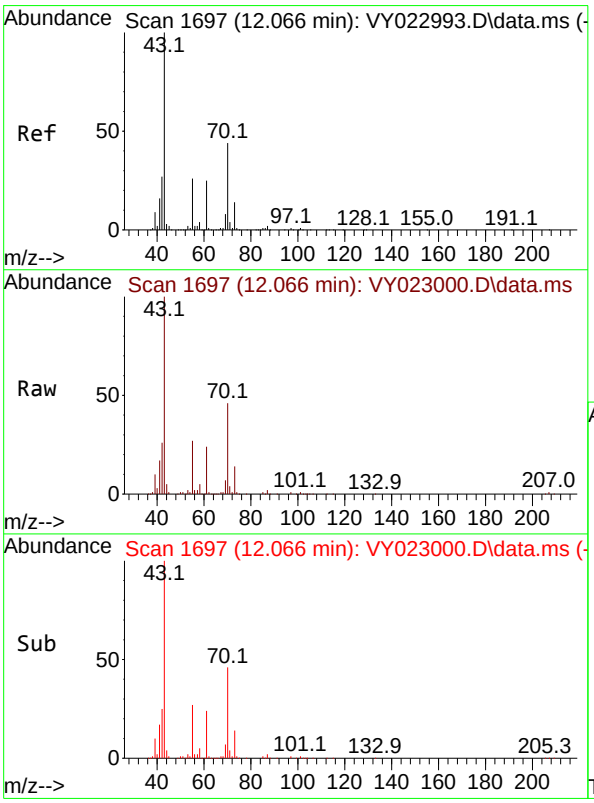
#73
Isopropylbenzene
Concen: 19.065 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:105 Resp: 469340

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6

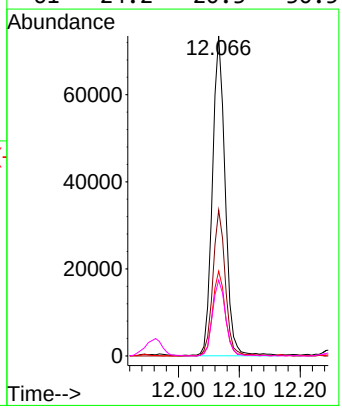


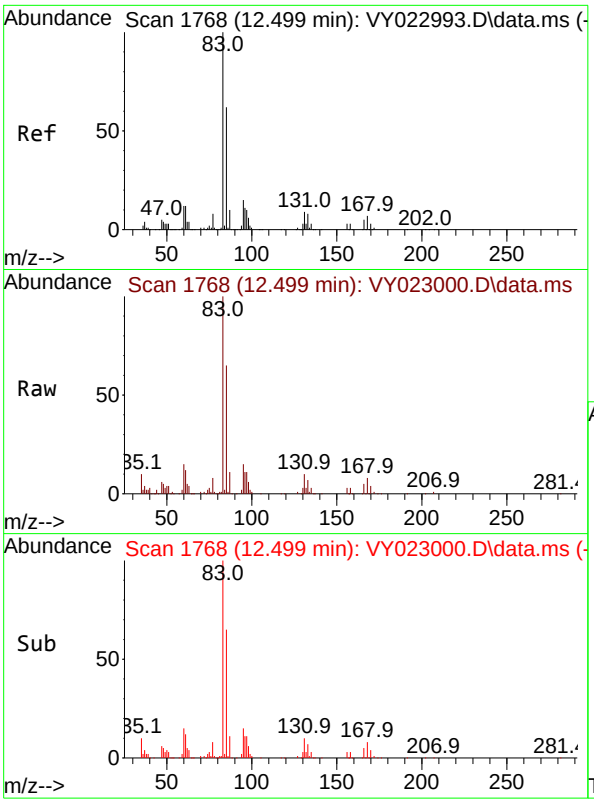


#74
N-amyl acetate
Concen: 23.049 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 43 Resp: 106978

Ion	Ratio	Lower	Upper
43	100		
70	44.5	36.2	54.2
55	26.0	20.9	31.3
61	24.2	20.3	30.5



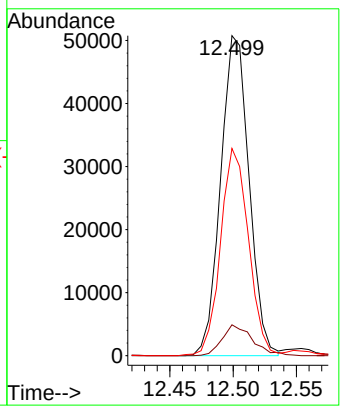


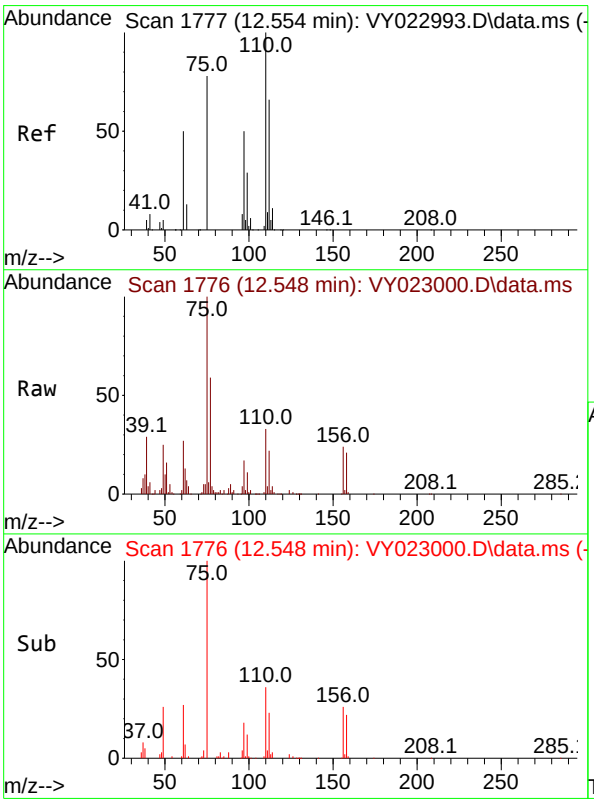
#75
1,1,2,2-Tetrachloroethane
Concen: 22.268 ug/l
RT: 12.499 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 83 Resp: 79332

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.7	31.9	95.7

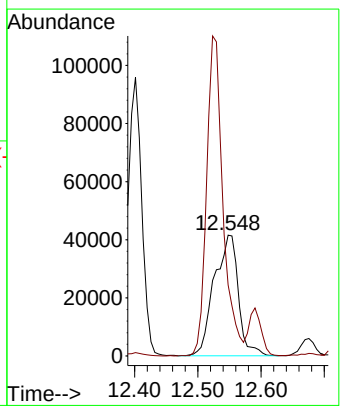


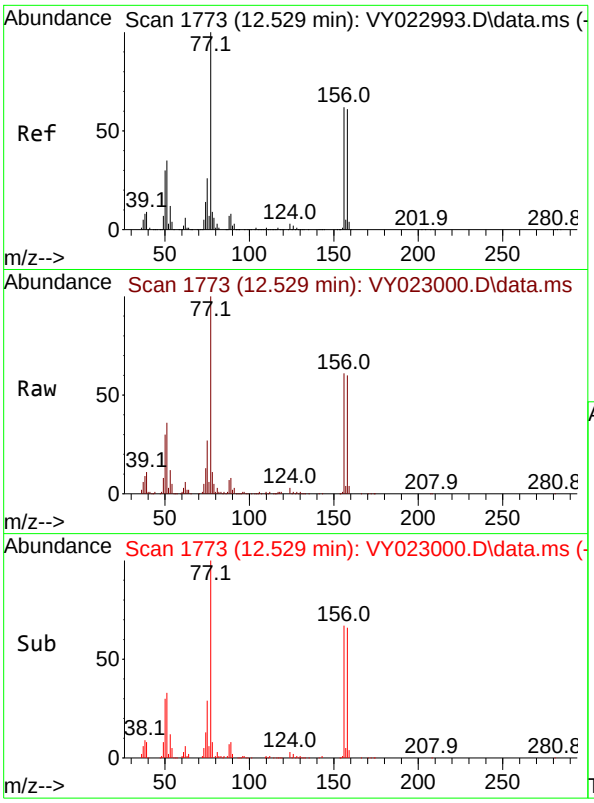


#76
1,2,3-Trichloropropane
Concen: 30.337 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 109767

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



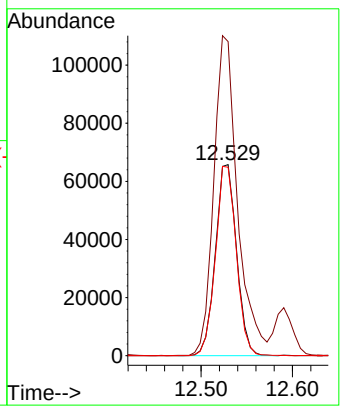


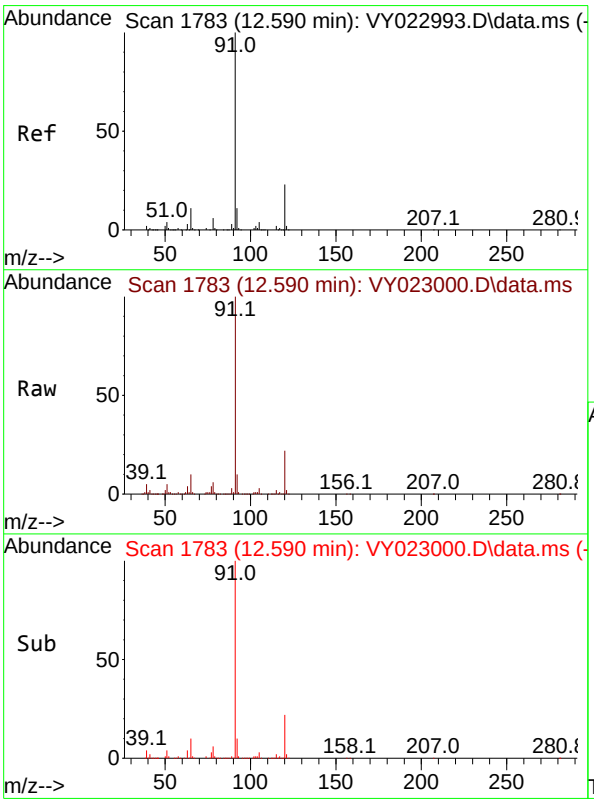
#77
Bromobenzene
Concen: 19.821 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:156 Resp: 105831

Ion	Ratio	Lower	Upper
156	100		
77	188.1	92.0	276.1
158	97.8	48.6	145.9

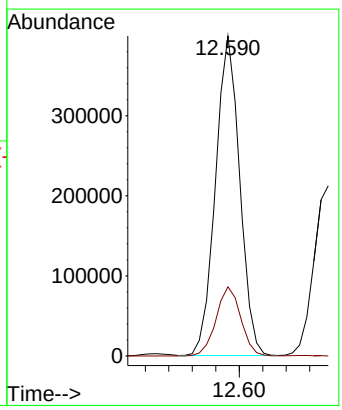


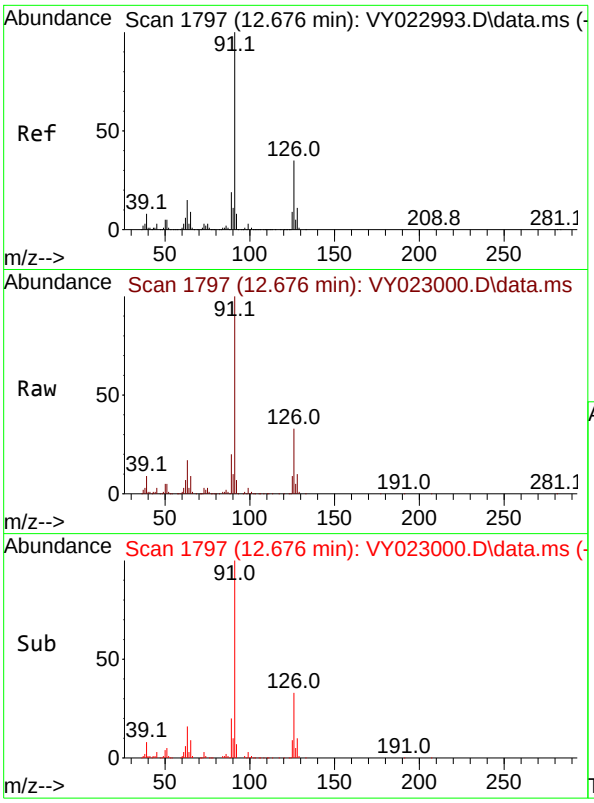


#78
n-propylbenzene
Concen: 19.503 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 571745

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.3	33.8



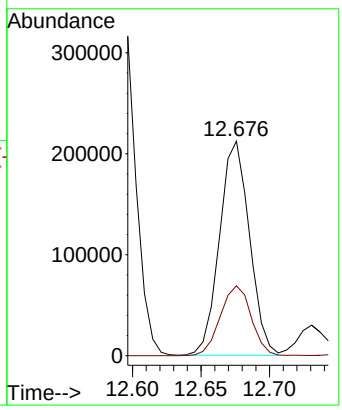


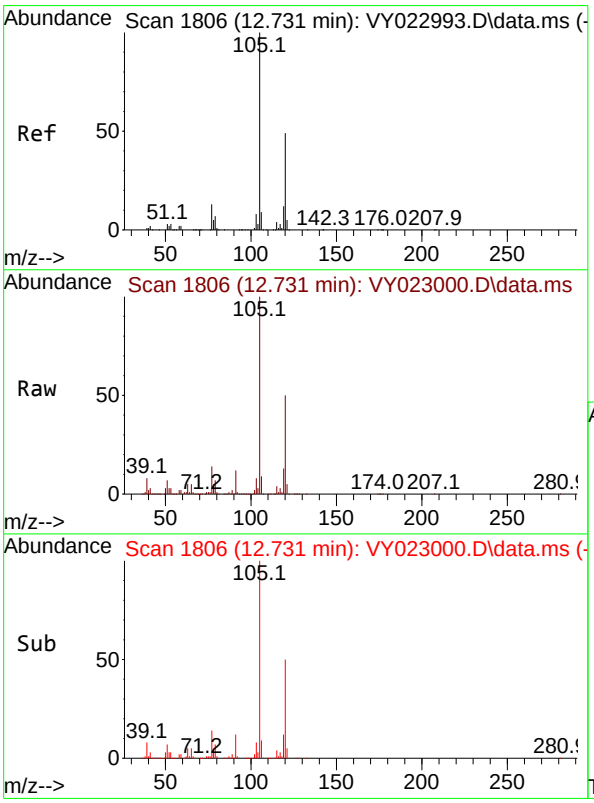
#79
2-Chlorotoluene
Concen: 19.588 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 91 Resp: 322963

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.0	50.9

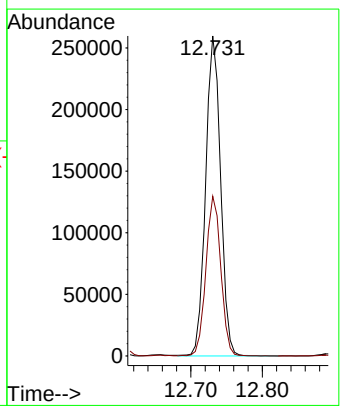


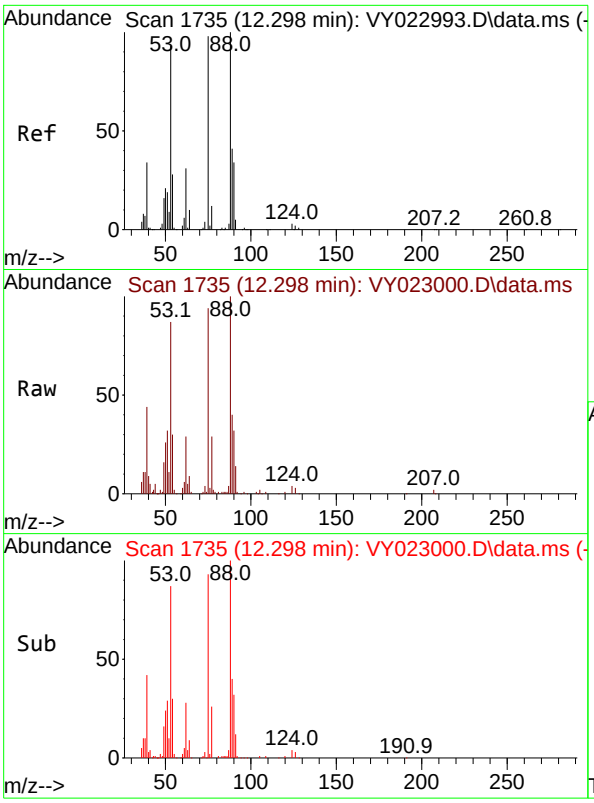


#80
1,3,5-Trimethylbenzene
Concen: 19.435 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:105 Resp: 377356

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.6	73.8



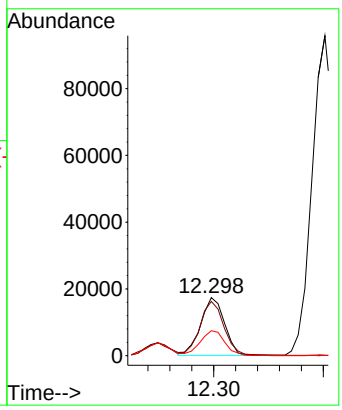


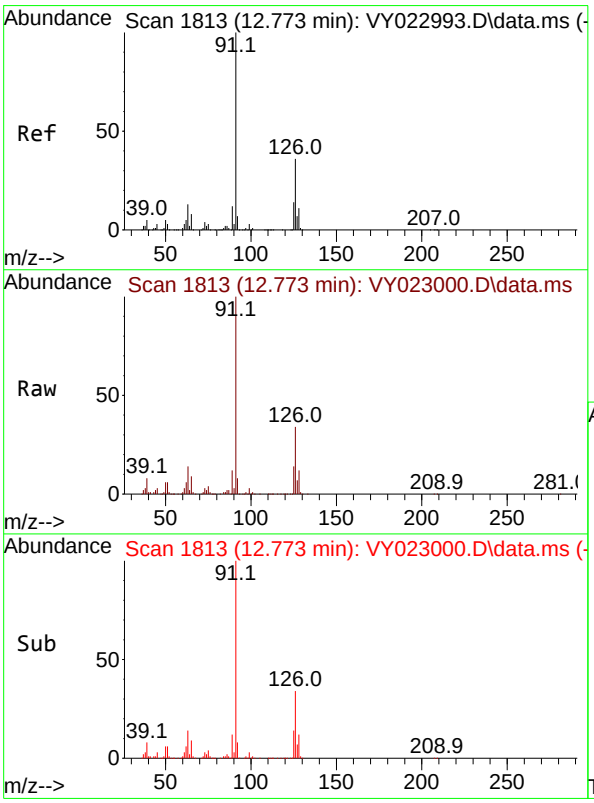
#81
trans-1,4-Dichloro-2-butene
Concen: 21.548 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 75 Resp: 26176

Ion	Ratio	Lower	Upper
75	100		
53	95.3	76.1	114.1
89	45.1	36.1	54.1

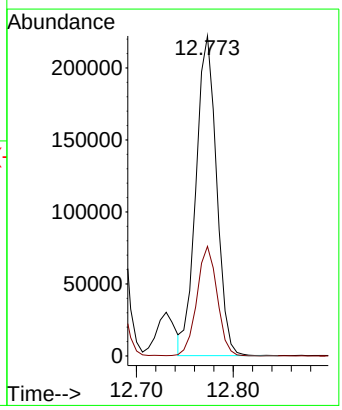


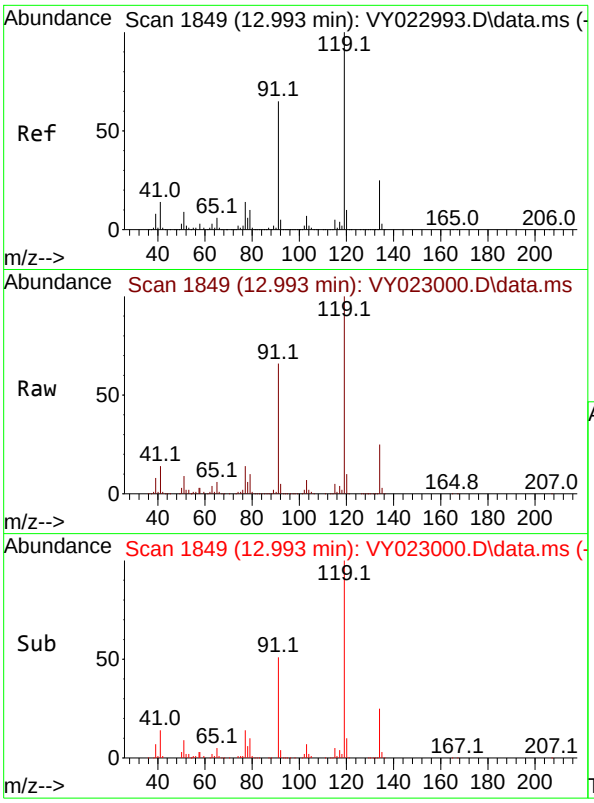


#82
4-Chlorotoluene
Concen: 19.725 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 91 Resp: 328021

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.2	51.5



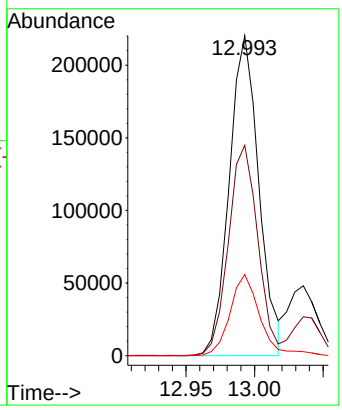


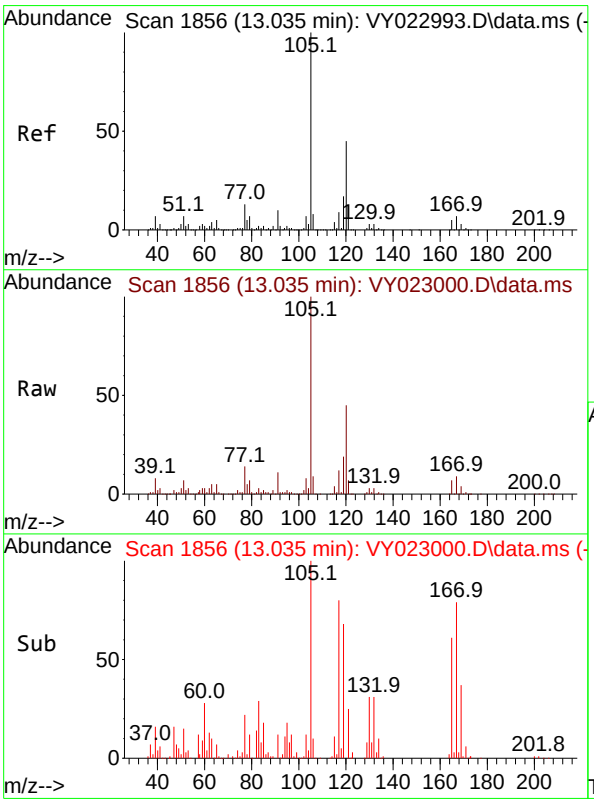
#83
tert-Butylbenzene
Concen: 18.917 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:119 Resp: 331779

Ion	Ratio	Lower	Upper
119	100		
91	65.0	32.0	96.2
134	25.7	12.6	37.6

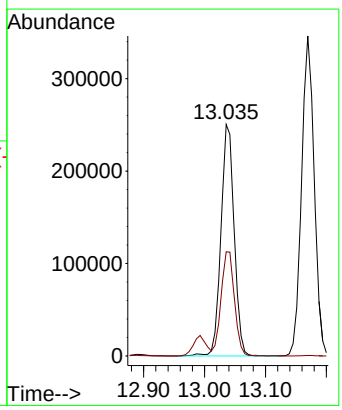


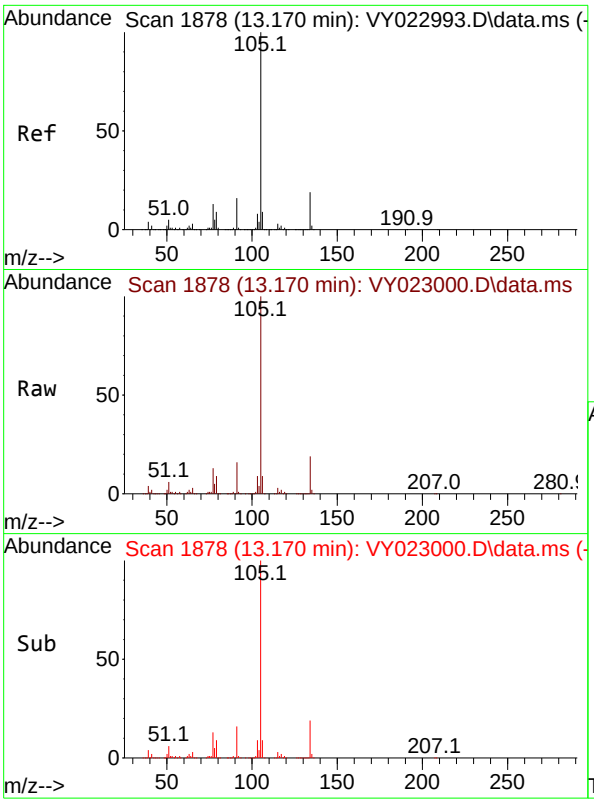


#84
1,2,4-Trimethylbenzene
Concen: 19.745 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:105 Resp: 377381

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.9	68.8



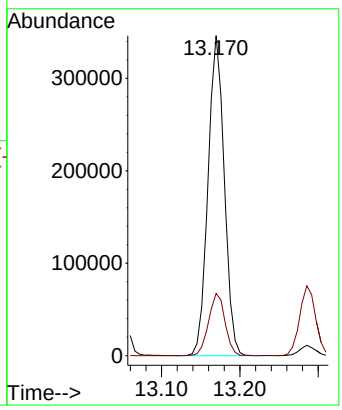


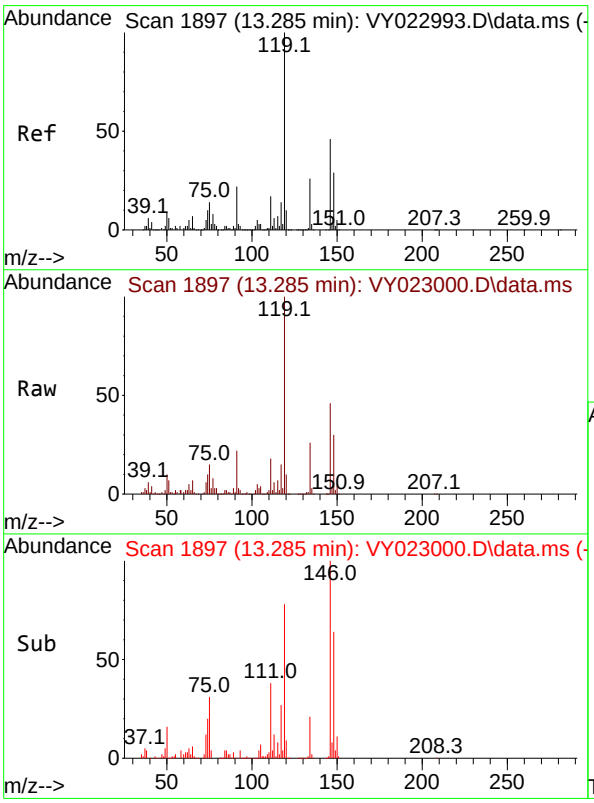
#85
sec-Butylbenzene
Concen: 18.928 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:105 Resp: 497483

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

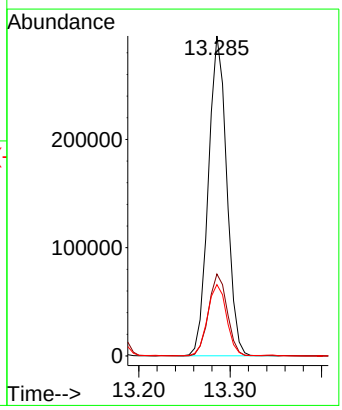


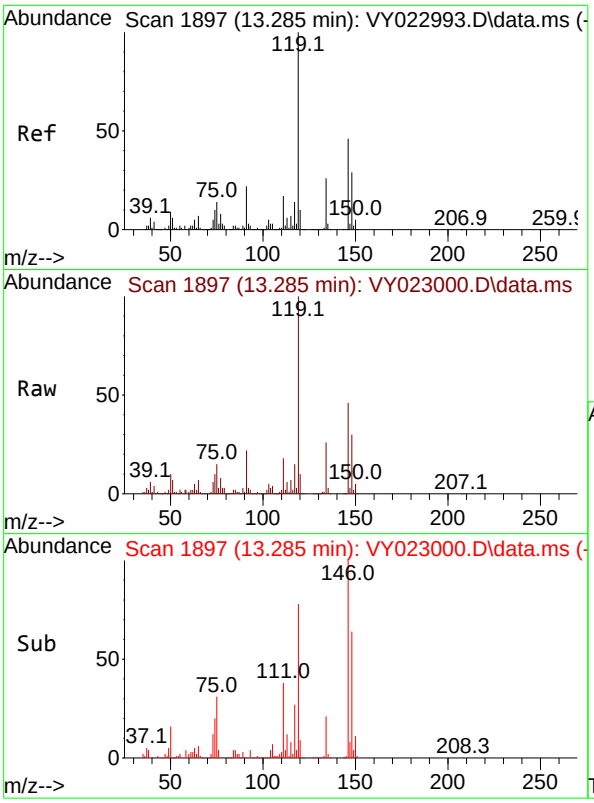


#86
p-Isopropyltoluene
Concen: 19.271 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:119 Resp: 411364

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	23.1	11.4	34.1



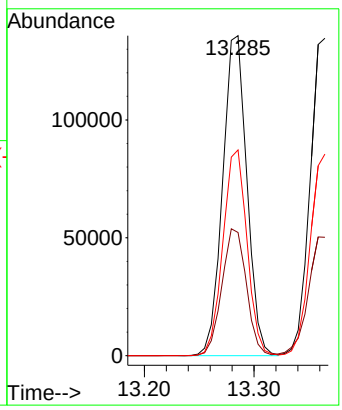


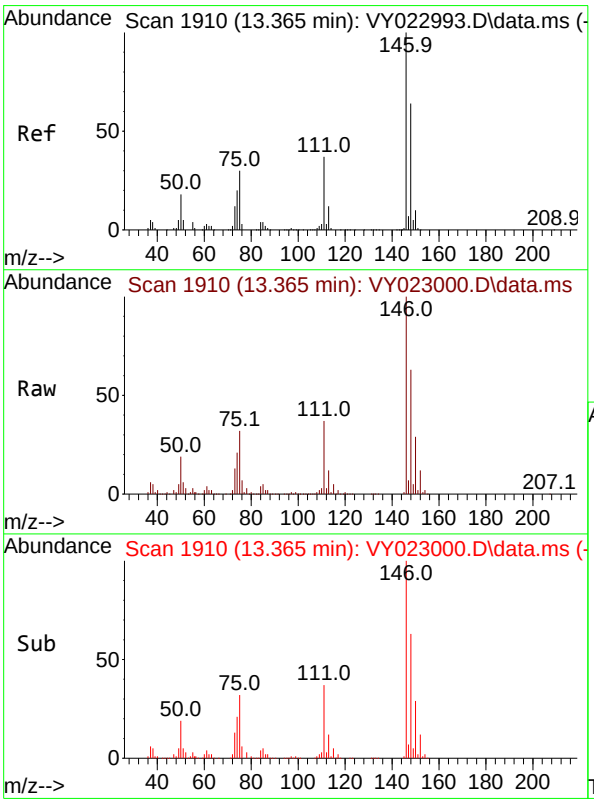
#87
1,3-Dichlorobenzene
Concen: 19.352 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:146 Resp: 208525

Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.8	59.3
148	64.0	31.6	94.8

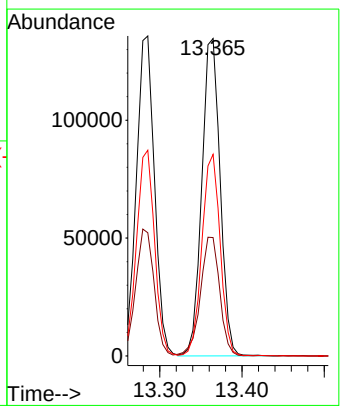


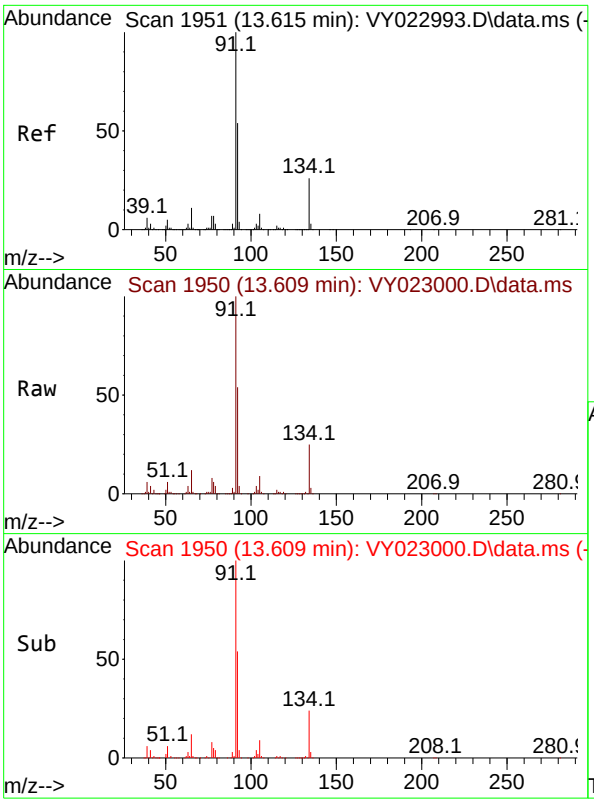


#88
1,4-Dichlorobenzene
Concen: 19.973 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:146 Resp: 208199

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.2	57.6
148	63.1	31.9	95.5



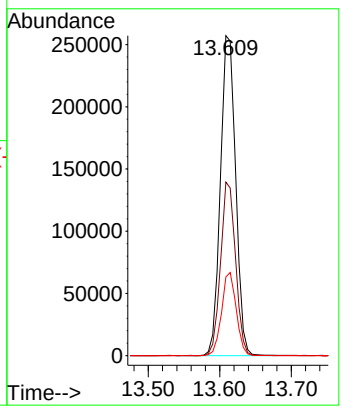


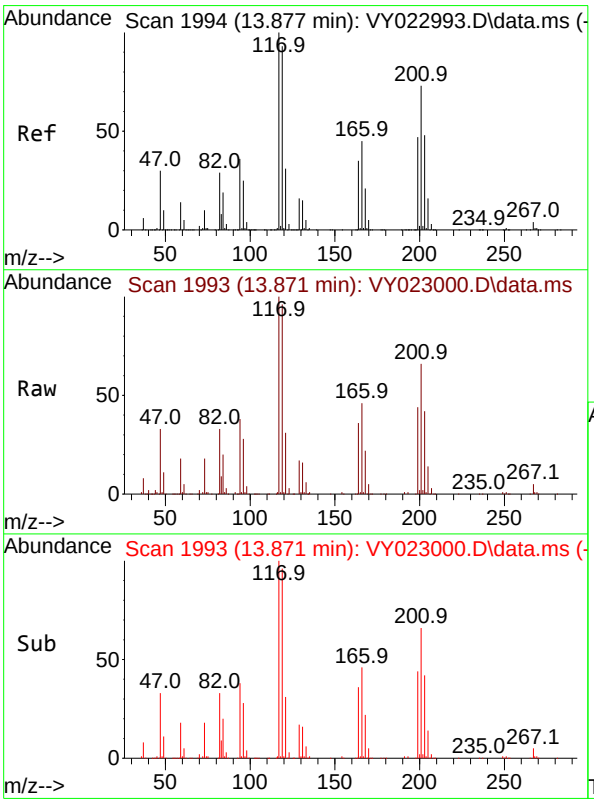
#89
n-Butylbenzene
Concen: 19.321 ug/l
RT: 13.609 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion: 91 Resp: 380572

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.1	12.6	37.6

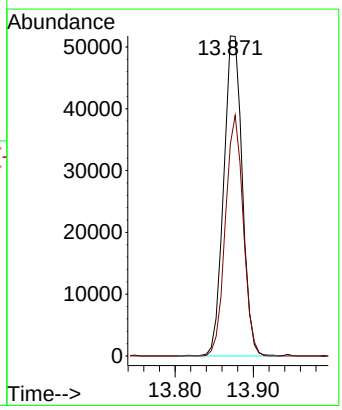


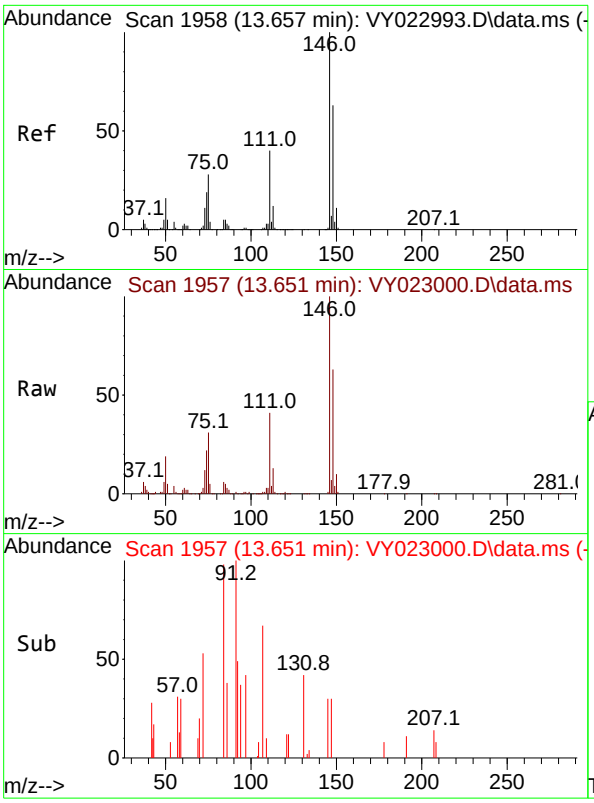


#90
Hexachloroethane
Concen: 19.261 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:117 Resp: 85123

Ion	Ratio	Lower	Upper
117	100		
201	72.4	36.1	108.5



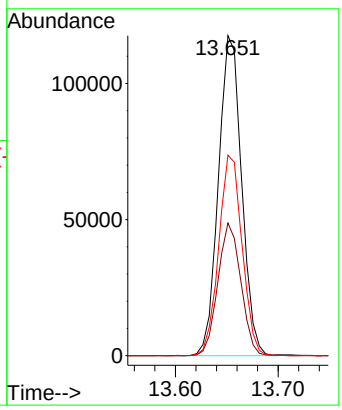


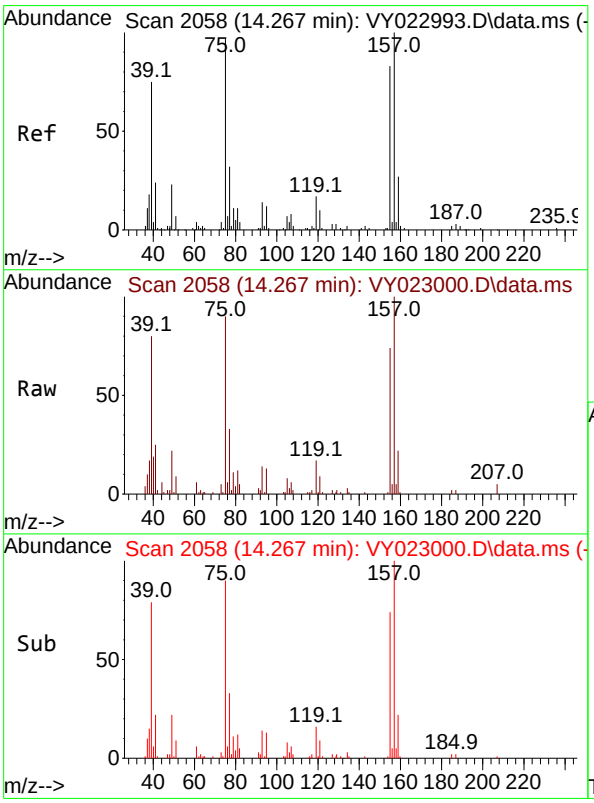
#91
1,2-Dichlorobenzene
Concen: 20.251 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:146 Resp: 184064

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.3	61.0
148	63.3	32.0	96.2

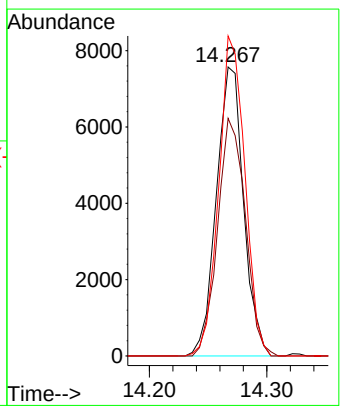


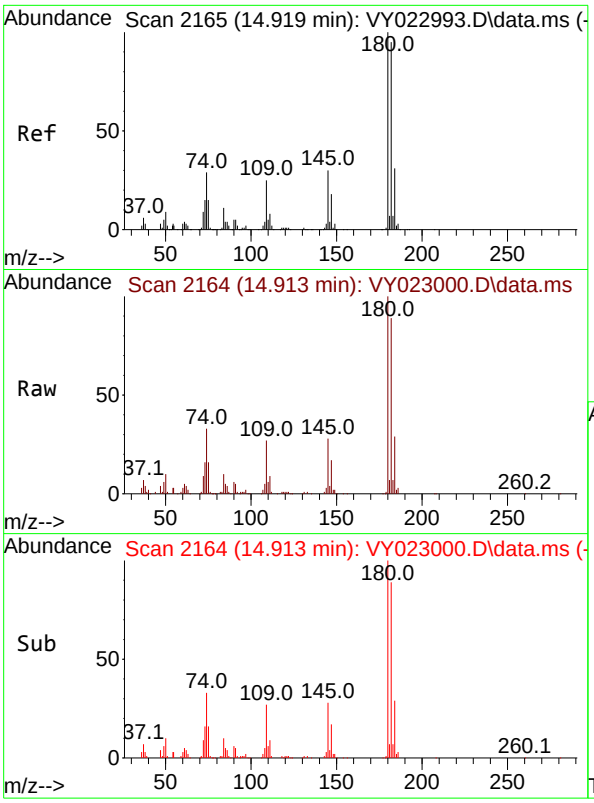


#92
1,2-Dibromo-3-Chloropropane
Concen: 23.016 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion: 75 Resp: 12175

Ion	Ratio	Lower	Upper
75	100		
155	83.9	42.8	128.3
157	106.4	54.3	162.9



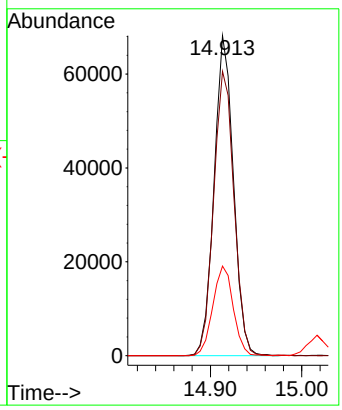


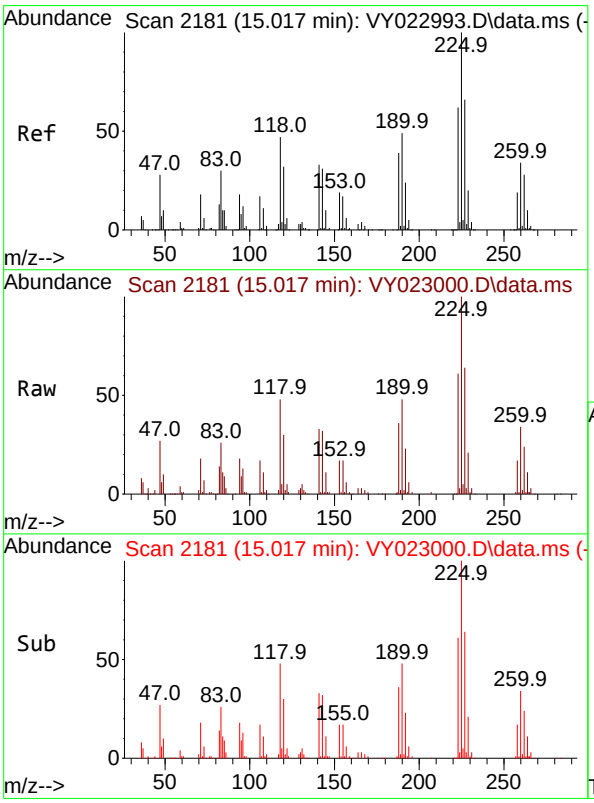
#93
1,2,4-Trichlorobenzene
Concen: 20.902 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:180 Resp: 100139

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.5	142.5
145	29.6	14.9	44.9

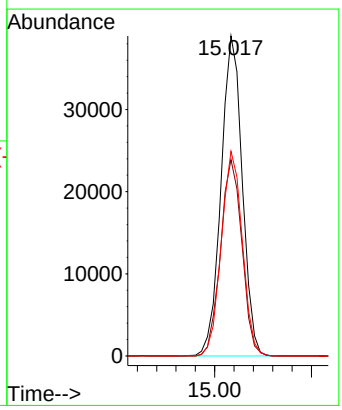


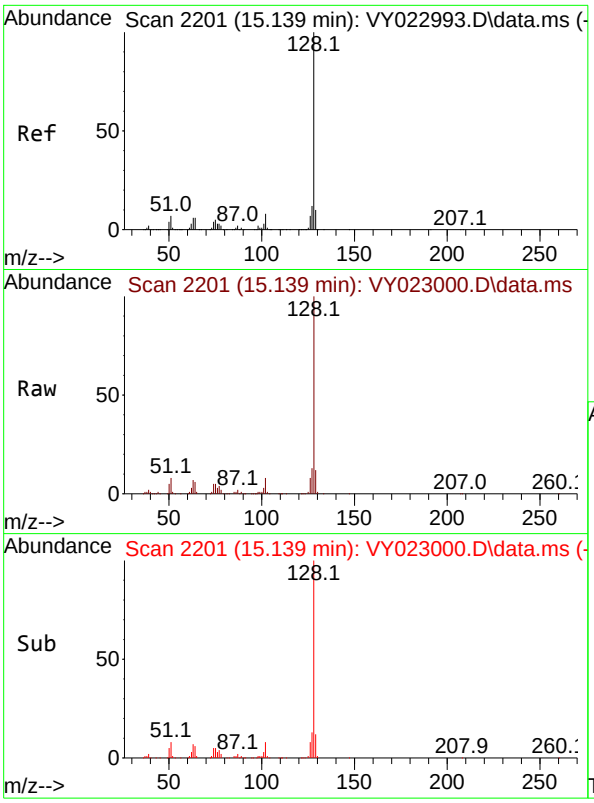


#94
Hexachlorobutadiene
Concen: 19.601 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:225 Resp: 59205

Ion	Ratio	Lower	Upper
225	100		
223	61.7	31.4	94.0
227	63.4	32.1	96.5



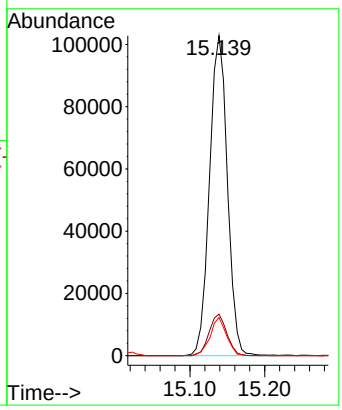


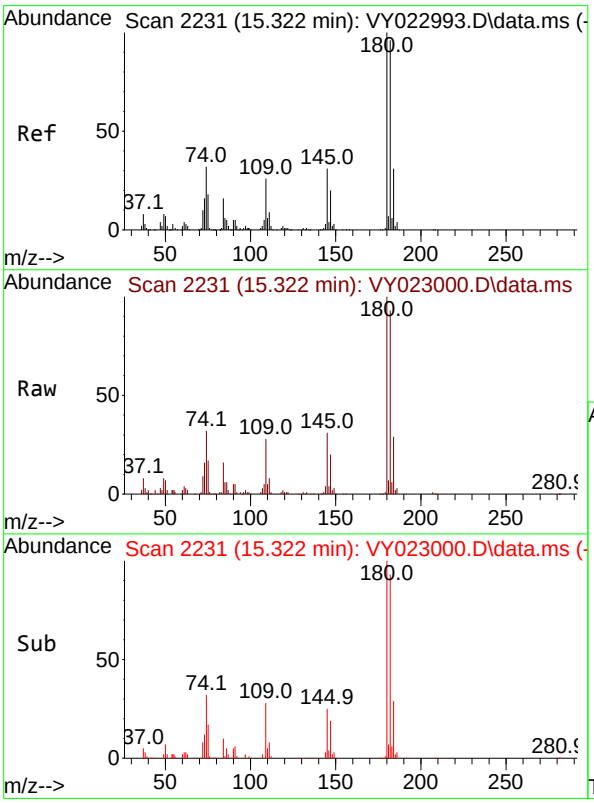
#95
Naphthalene
Concen: 22.220 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Instrument :
MSVOA_Y
ClientSampleId :
VY0718SBSD01

Tgt Ion:128 Resp: 170744

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.0	8.6	12.8

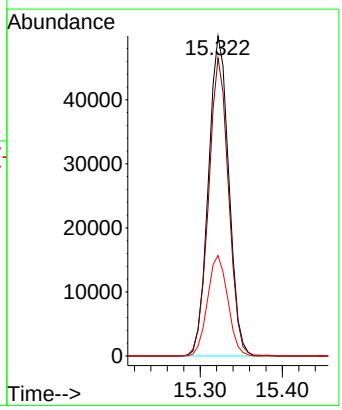




#96
1,2,3-Trichlorobenzene
Concen: 21.717 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY023000.D
Acq: 18 Jul 2025 16:00

Tgt Ion:180 Resp: 85911

Ion	Ratio	Lower	Upper
180	100		
182	91.2	47.3	142.0
145	31.2	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	377955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	625472	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	554651	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	276744	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	228310	59.671	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.340%			
35) Dibromofluoromethane	7.634	113	208746	52.613	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.220%			
50) Toluene-d8	10.109	98	806530	51.260	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.520%			
62) 4-Bromofluorobenzene	12.402	95	261655	52.830	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 105.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	140807	43.876	ug/l	99
3) Chloromethane	2.068	50	323218	59.231	ug/l	98
4) Vinyl Chloride	2.202	62	394077	57.002	ug/l	98
5) Bromomethane	2.592	94	311918	62.514	ug/l	99
6) Chloroethane	2.733	64	280147	60.674	ug/l	98
7) Trichlorofluoromethane	3.050	101	436004	54.329	ug/l	100
8) Diethyl Ether	3.458	74	111442	53.057	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.812	101	199499	47.321	ug/l	99
10) Methyl Iodide	4.001	142	217070	49.563	ug/l	100
11) Tert butyl alcohol	4.879	59	71247	307.901	ug/l	98
12) 1,1-Dichloroethene	3.787	96	188473	46.929	ug/l	93
13) Acrolein	3.659	56	16998	156.327	ug/l	99
14) Allyl chloride	4.385	41	306078	50.025	ug/l	98
15) Acrylonitrile	5.061	53	248330	312.136	ug/l	100
16) Acetone	3.879	43	181109	261.129	ug/l	97
17) Carbon Disulfide	4.104	76	580997	47.733	ug/l	100
18) Methyl Acetate	4.385	43	172195	73.334	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	554451	57.557	ug/l	100
20) Methylene Chloride	4.616	84	265399	55.283	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	219497	49.098	ug/l	100
22) Diisopropyl ether	6.019	45	718593	55.360	ug/l	99
23) Vinyl Acetate	5.964	43	1900129	290.523	ug/l	99
24) 1,1-Dichloroethane	5.915	63	421017	51.640	ug/l	99
25) 2-Butanone	6.896	43	308999	310.560	ug/l	99
26) 2,2-Dichloropropane	6.884	77	315802	44.197	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	262480	50.944	ug/l	98
28) Bromochloromethane	7.244	49	178147	56.337	ug/l	96
29) Tetrahydrofuran	7.262	42	209494	332.560	ug/l	99
30) Chloroform	7.421	83	432510	52.587	ug/l	98
31) Cyclohexane	7.701	56	354155	46.489	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	367493	49.245	ug/l	98
36) 1,1-Dichloropropene	7.835	75	301074	48.175	ug/l	100
37) Ethyl Acetate	6.988	43	138056	59.479	ug/l	100
38) Carbon Tetrachloride	7.817	117	316660	46.638	ug/l	97
39) Methylcyclohexane	9.109	83	374781	46.332	ug/l	99
40) Benzene	8.079	78	958949	50.962	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	79155	62.602	ug/l		95
42) 1,2-Dichloroethane	8.158	62	263065	56.192	ug/l		99
43) Isopropyl Acetate	8.195	43	288120	62.492	ug/l	#	86
44) Trichloroethene	8.866	130	233155	48.241	ug/l		98
45) 1,2-Dichloropropane	9.140	63	226109	51.456	ug/l		97
46) Dibromomethane	9.231	93	126540	55.711	ug/l		99
47) Bromodichloromethane	9.427	83	330126	52.581	ug/l		100
48) Methyl methacrylate	9.219	41	137956	61.977	ug/l		98
49) 1,4-Dioxane	9.238	88	31191	1302.771	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	778848	332.819	ug/l		99
52) Toluene	10.170	92	596148	50.957	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	290824	53.962	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	335517	51.650	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	170233	57.023	ug/l		97
56) Ethyl methacrylate	10.439	69	229815	61.668	ug/l		99
57) 1,3-Dichloropropane	10.719	76	294658	57.137	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	578833	317.300	ug/l		99
59) 2-Hexanone	10.762	43	511100	332.267	ug/l		100
60) Dibromochloromethane	10.914	129	219889	56.249	ug/l		100
61) 1,2-Dibromoethane	11.012	107	158224	58.364	ug/l		98
64) Tetrachloroethene	10.646	164	270447	47.704	ug/l		97
65) Chlorobenzene	11.438	112	630749	48.192	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	219714	49.218	ug/l		99
67) Ethyl Benzene	11.518	91	1115671	48.092	ug/l		99
68) m/p-Xylenes	11.627	106	853956	95.970	ug/l		100
69) o-Xylene	11.957	106	402086	48.691	ug/l		99
70) Styrene	11.969	104	691812	51.144	ug/l		99
71) Bromoform	12.133	173	123544	54.515	ug/l	#	99
73) Isopropylbenzene	12.255	105	1021842	43.551	ug/l		100
74) N-amyl acetate	12.066	43	246379	55.697	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	177627	52.314	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	251064	72.805	ug/l	#	100
77) Bromobenzene	12.530	156	235710	46.319	ug/l		98
78) n-propylbenzene	12.597	91	1217148	43.562	ug/l		100
79) 2-Chlorotoluene	12.676	91	700498	44.577	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	828035	44.746	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	57844	49.960	ug/l		99
82) 4-Chlorotoluene	12.773	91	726082	45.812	ug/l		99
83) tert-Butylbenzene	12.999	119	730508	43.702	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	830661	45.601	ug/l		99
85) sec-Butylbenzene	13.176	105	1071926	42.792	ug/l		100
86) p-Isopropyltoluene	13.292	119	879278	43.220	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	467908	45.562	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	452749	45.571	ug/l		100
89) n-Butylbenzene	13.615	91	787148	41.930	ug/l		99
90) Hexachloroethane	13.877	117	181698	43.138	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	413591	47.745	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	29548	58.609	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	210940	46.196	ug/l		99
94) Hexachlorobutadiene	15.023	225	106361	36.947	ug/l		99
95) Naphthalene	15.145	128	411528	56.191	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	185268	49.139	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

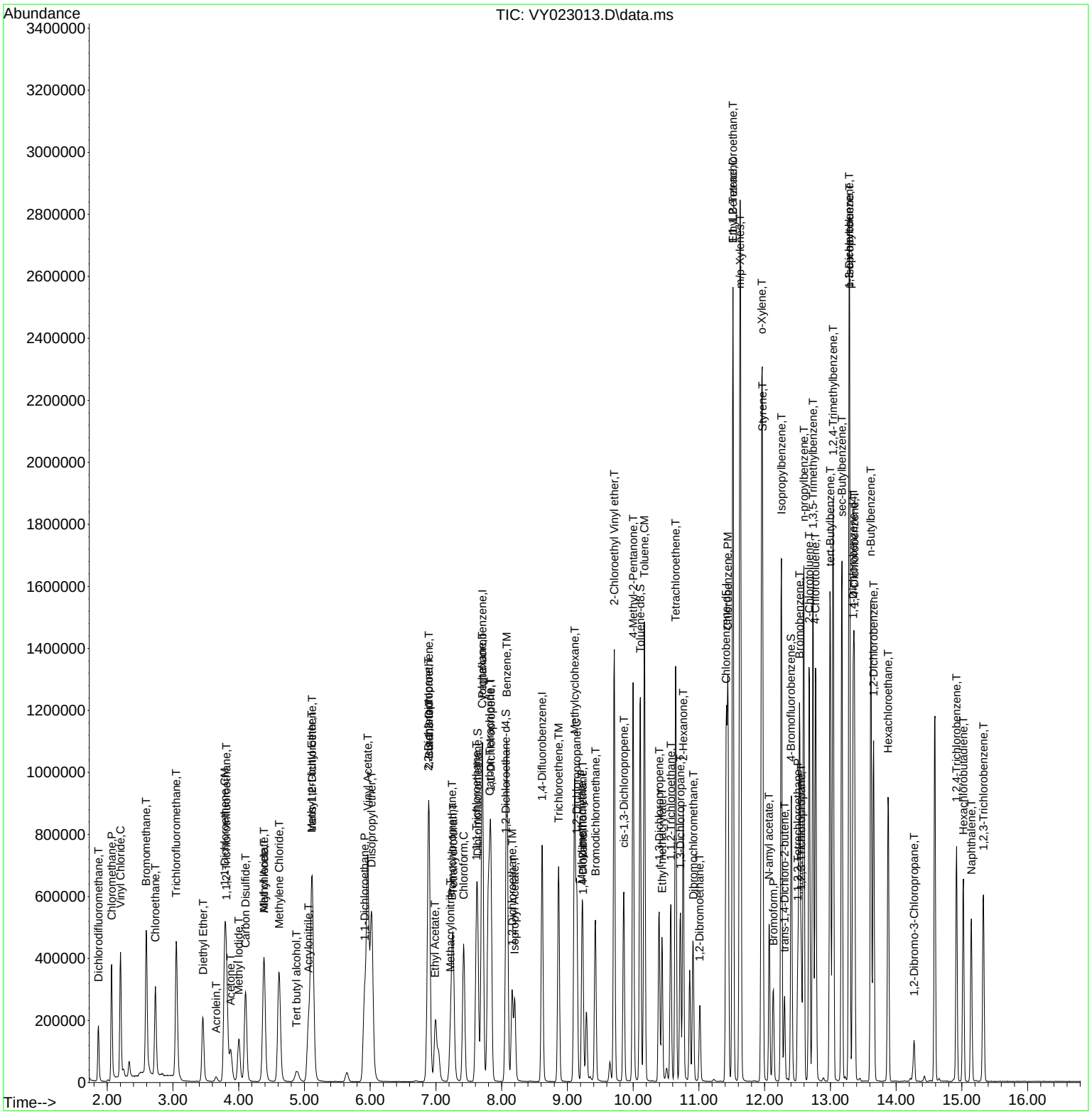
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

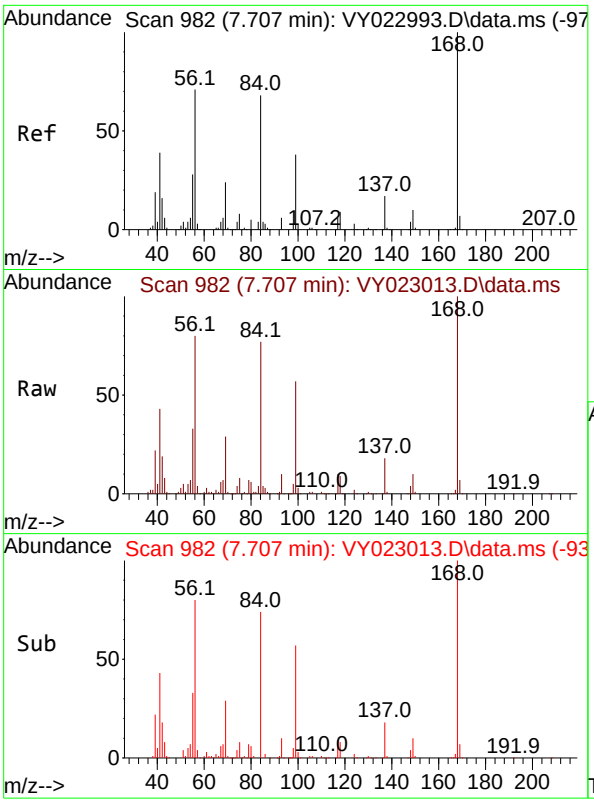
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
Data File : VY023013.D
Acq On : 18 Jul 2025 21:30
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 19 04:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



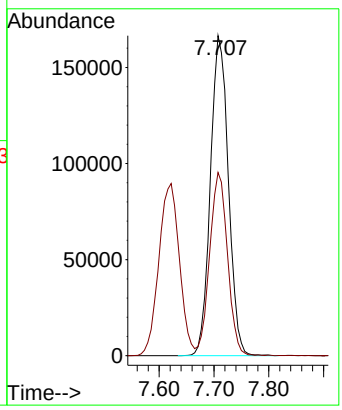


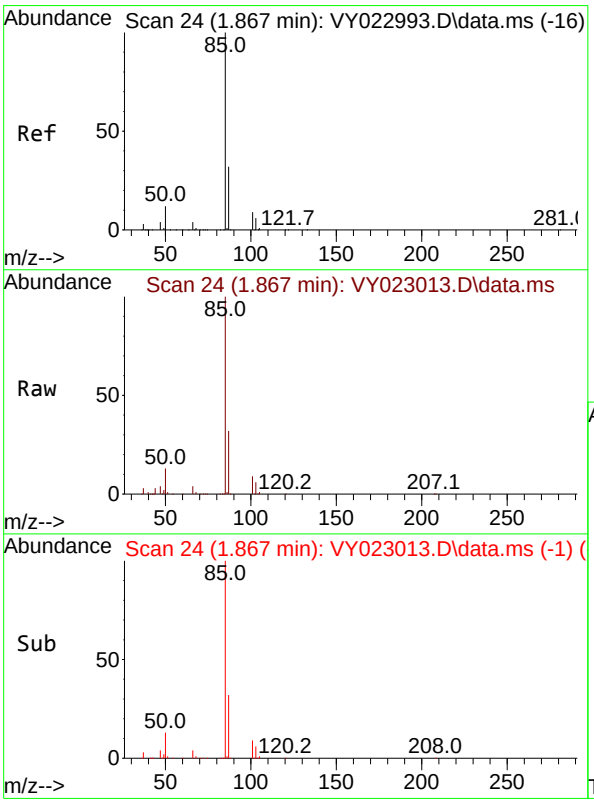
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 377955

Ion	Ratio	Lower	Upper
168	100		
99	57.2	44.4	66.6

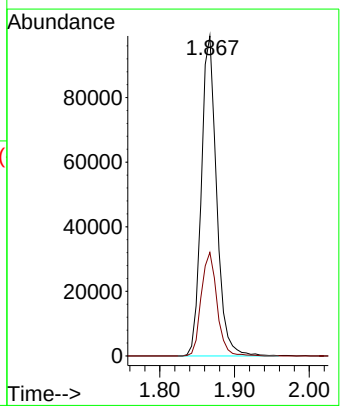


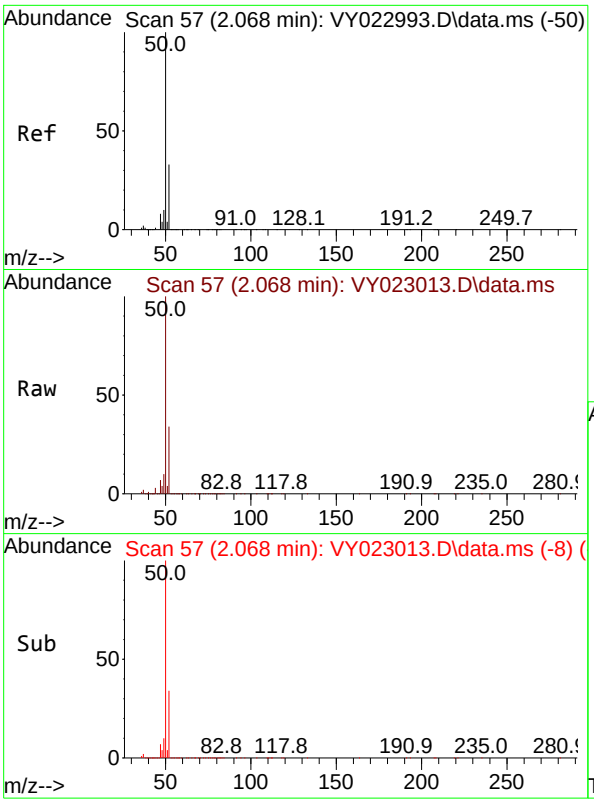


#2
Dichlorodifluoromethane
Concen: 43.876 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 85 Resp: 140807

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.0	47.9



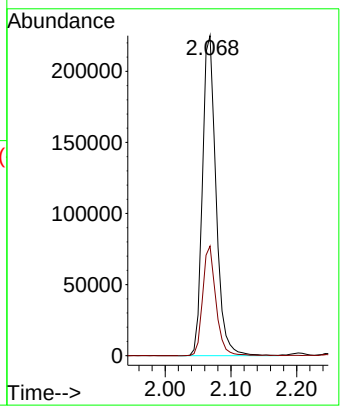


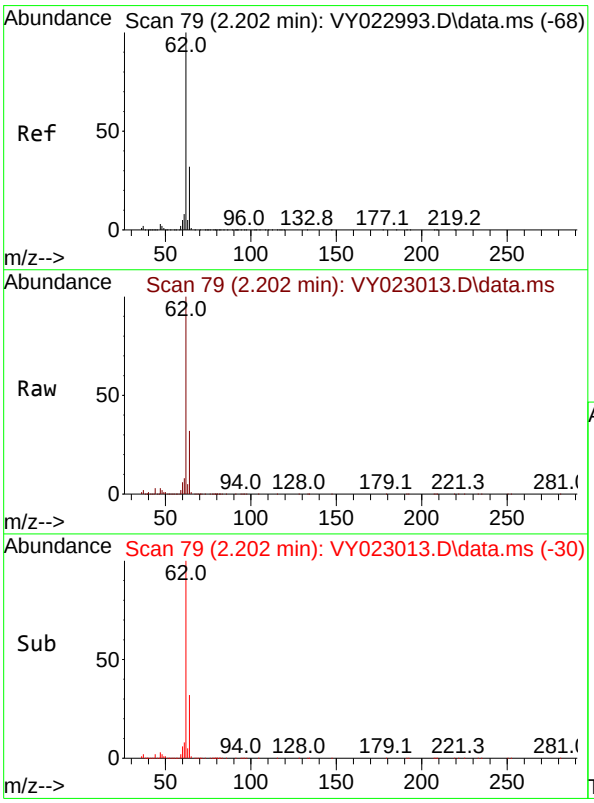
#3
Chloromethane
Concen: 59.231 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 323218

Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.6	39.8

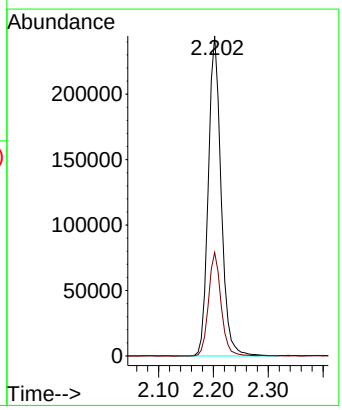


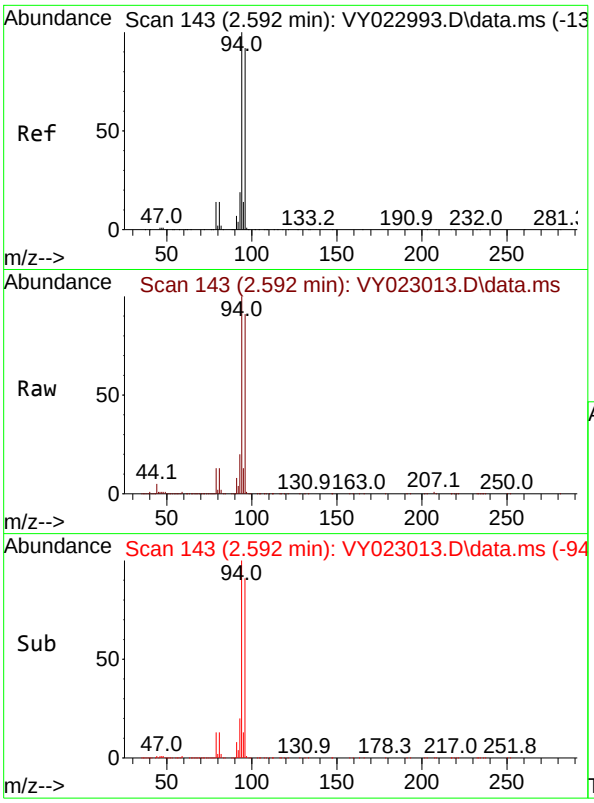


#4
Vinyl Chloride
Concen: 57.002 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 62 Resp: 394077

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8



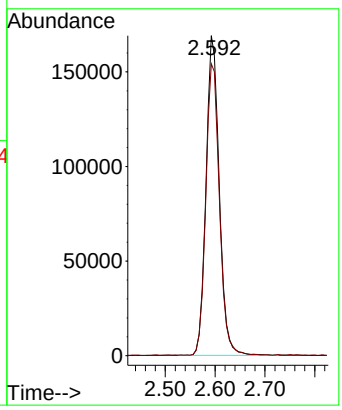


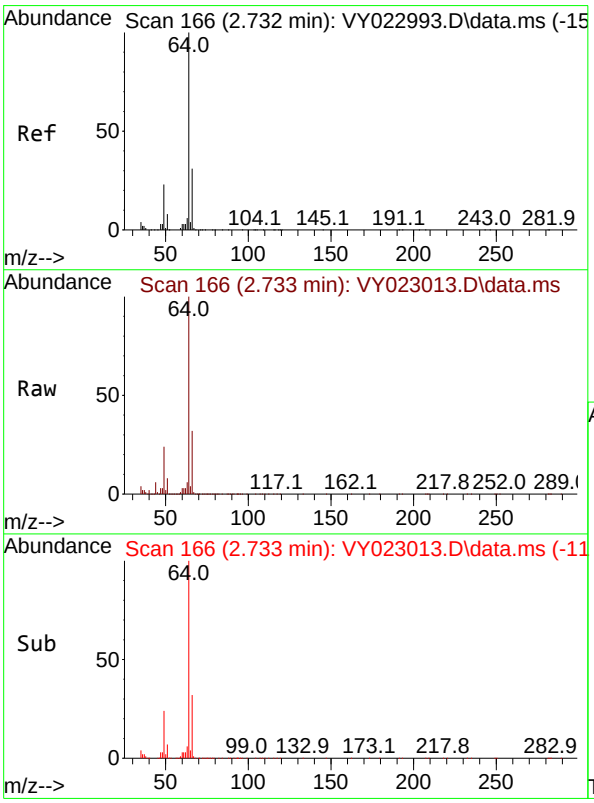
#5
Bromomethane
Concen: 62.514 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 311918

Ion	Ratio	Lower	Upper
94	100		
96	91.1	73.9	110.9

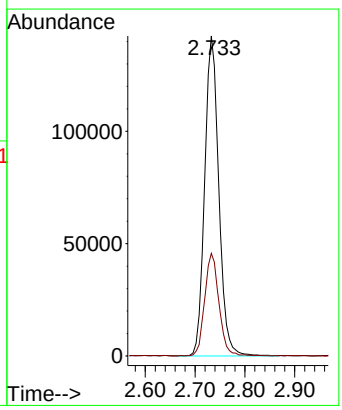


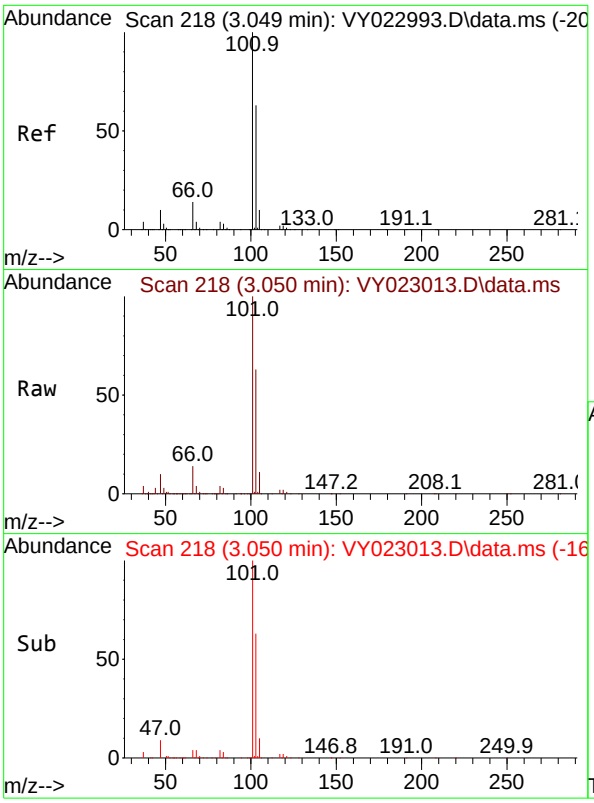


#6
Chloroethane
Concen: 60.674 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 64 Resp: 280147

Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.9	37.3



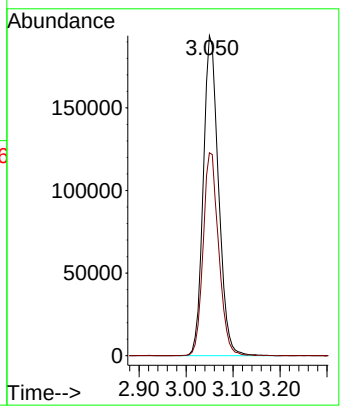


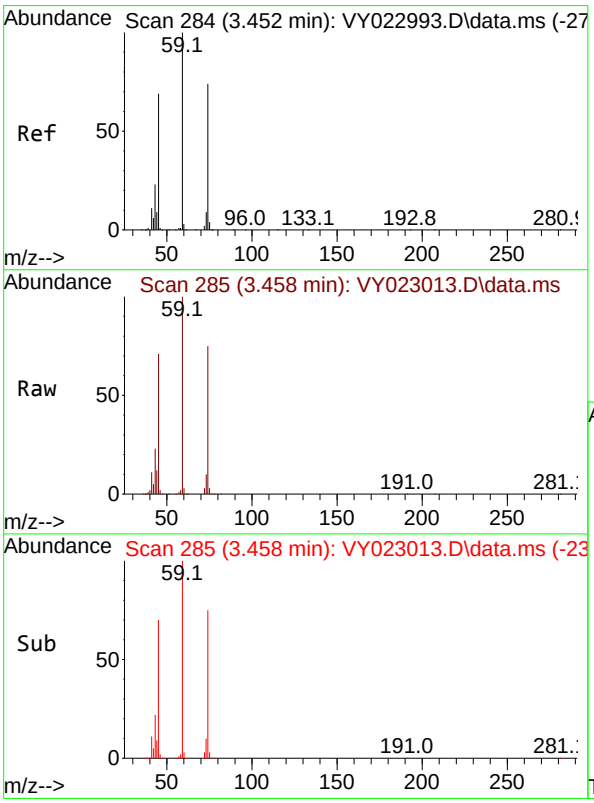
#7
Trichlorofluoromethane
Concen: 54.329 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 436004

Ion	Ratio	Lower	Upper
101	100		
103	63.4	50.7	76.1

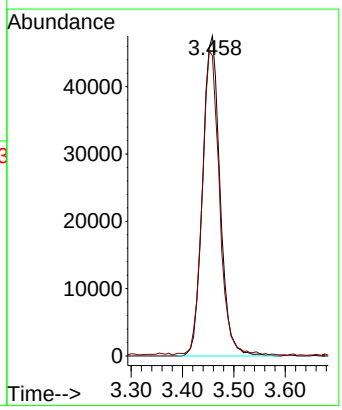


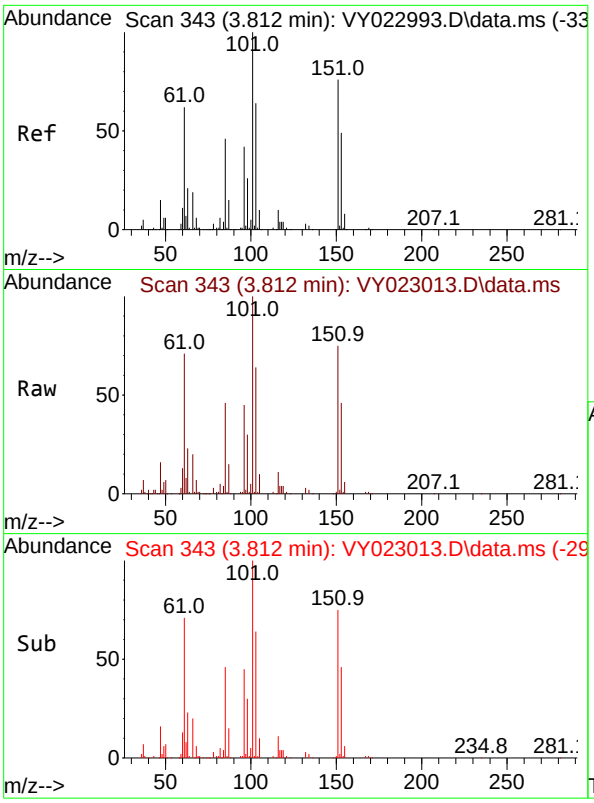


#8
Diethyl Ether
Concen: 53.057 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 74 Resp: 111442

Ion	Ratio	Lower	Upper
74	100		
45	95.3	45.1	135.2



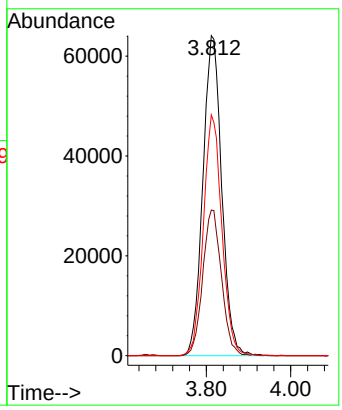


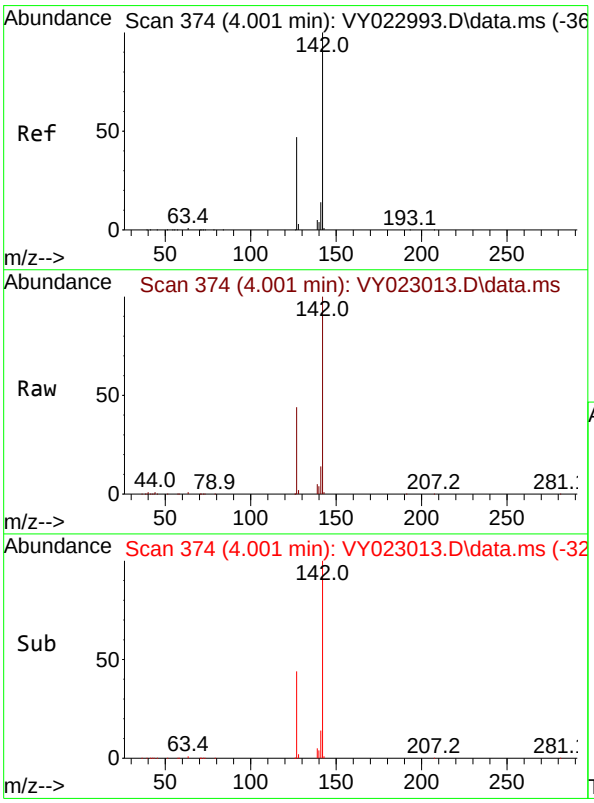
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.321 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 199499

Ion	Ratio	Lower	Upper
101	100		
85	45.3	37.2	55.8
151	73.9	59.7	89.5

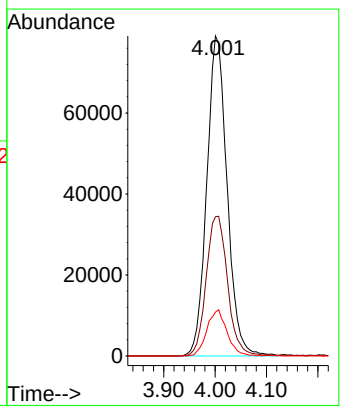


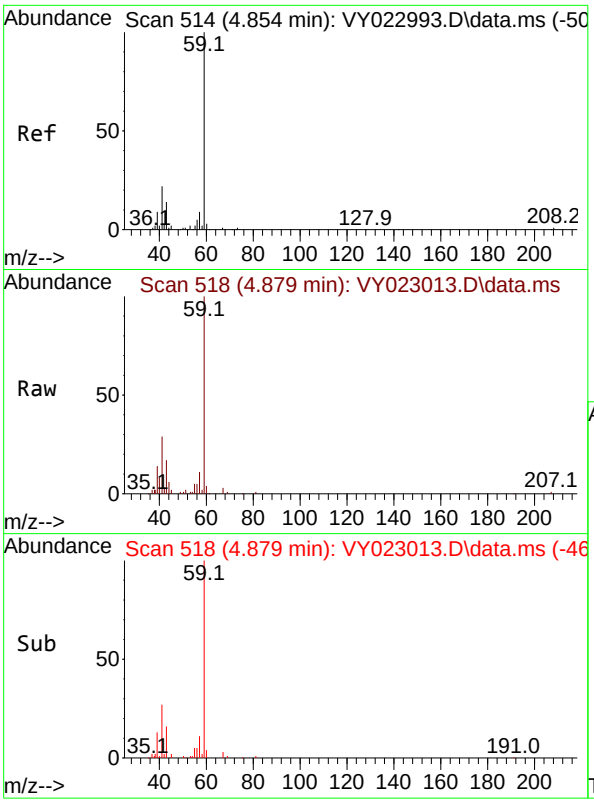


#10
Methyl Iodide
Concen: 49.563 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:142 Resp: 217070

Ion	Ratio	Lower	Upper
142	100		
127	46.0	37.0	55.6
141	14.3	11.4	17.2



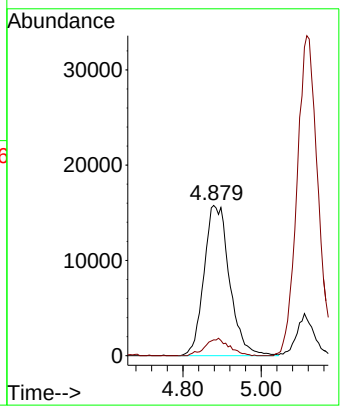


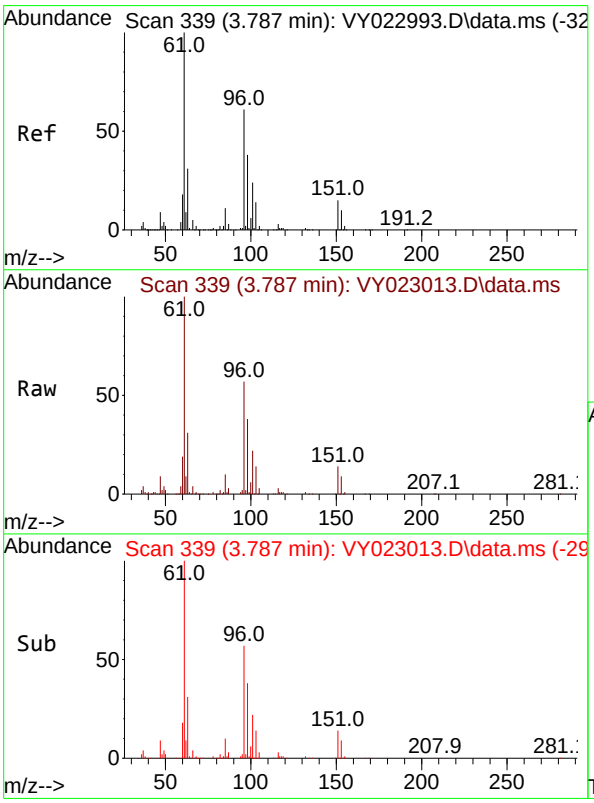
#11
Tert butyl alcohol
Concen: 307.901 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.025 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 71247

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.2	12.2

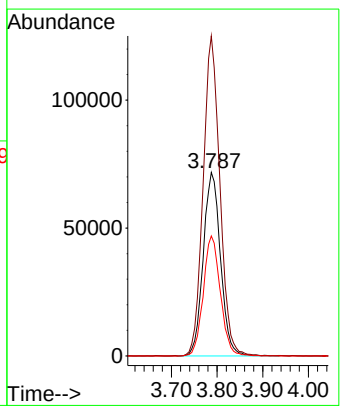


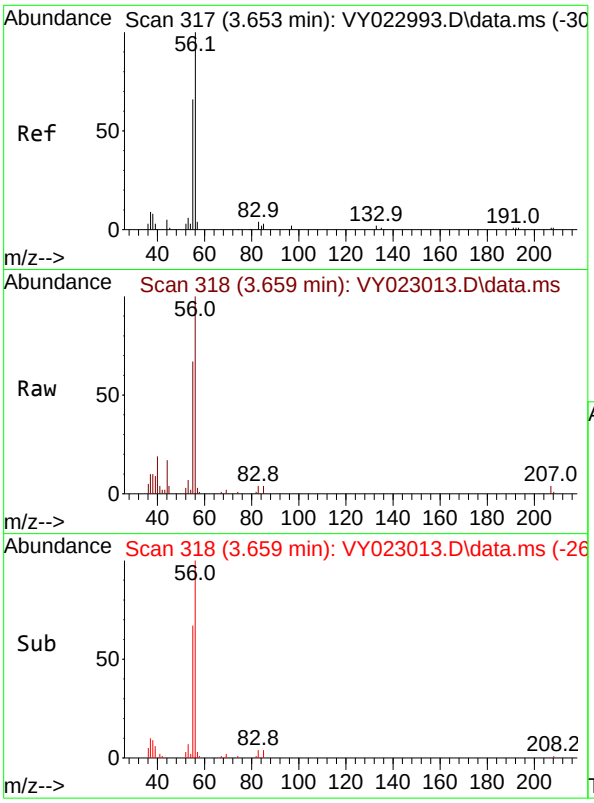


#12
1,1-Dichloroethene
Concen: 46.929 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 96 Resp: 188473

Ion	Ratio	Lower	Upper
96	100		
61	174.4	130.4	195.6
98	65.4	49.6	74.4



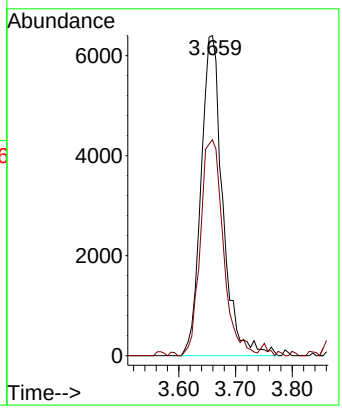


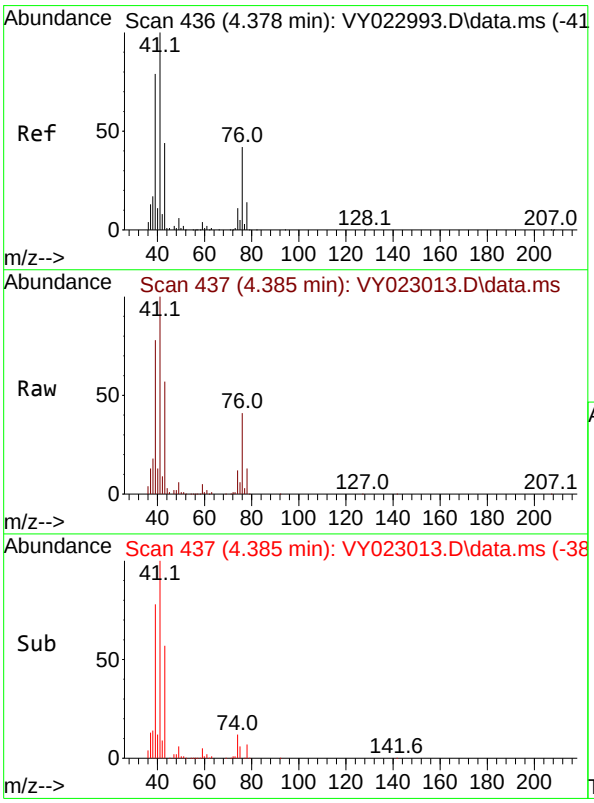
#13
Acrolein
Concen: 156.327 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 16998

Ion	Ratio	Lower	Upper
56	100		
55	71.1	57.8	86.6

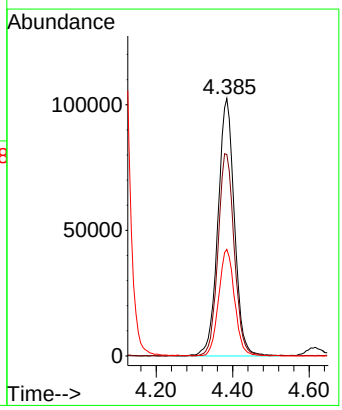


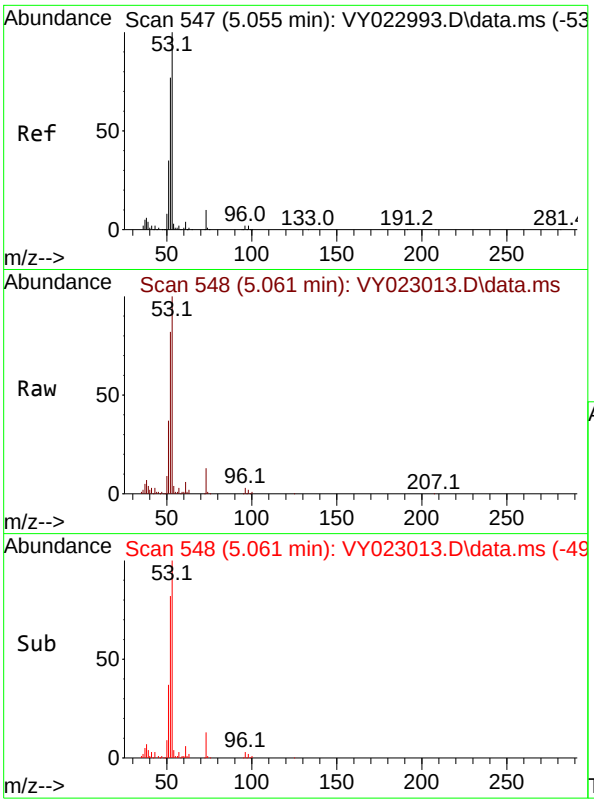


#14
Allyl chloride
Concen: 50.025 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 41 Resp: 306078

Ion	Ratio	Lower	Upper
41	100		
39	77.7	60.1	90.1
76	40.1	32.2	48.4



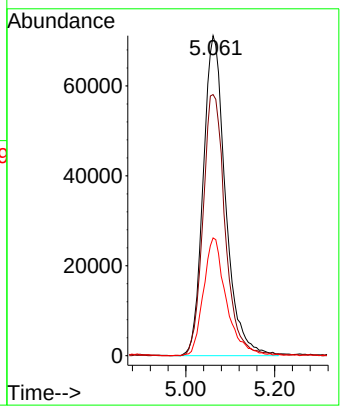


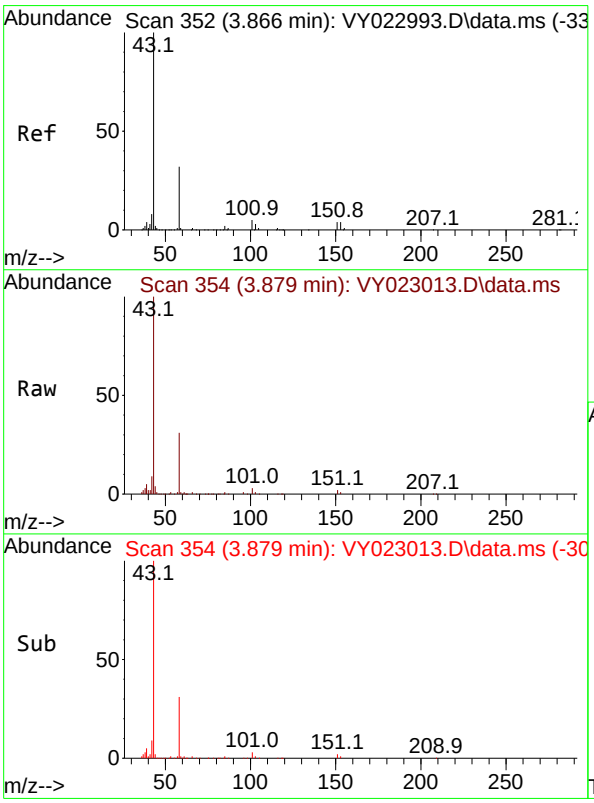
#15
Acrylonitrile
Concen: 312.136 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 248330

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.2	97.8
51	37.8	30.3	45.5

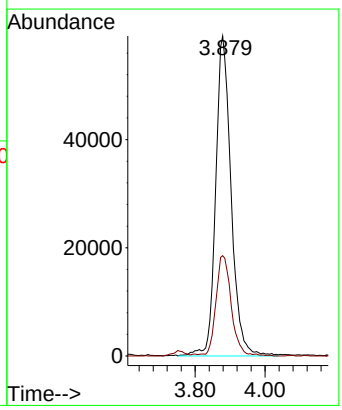


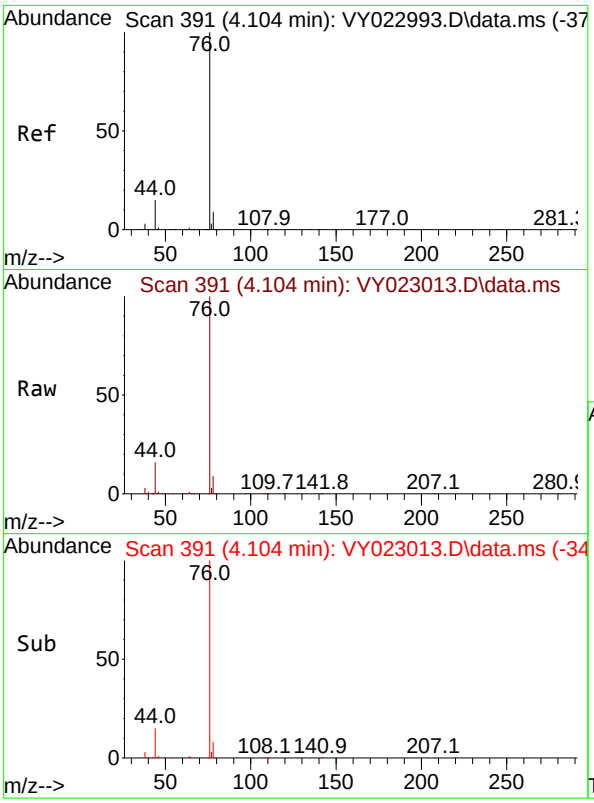


#16
Acetone
Concen: 261.129 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 181109

Ion	Ratio	Lower	Upper
43	100		
58	31.4	26.2	39.4



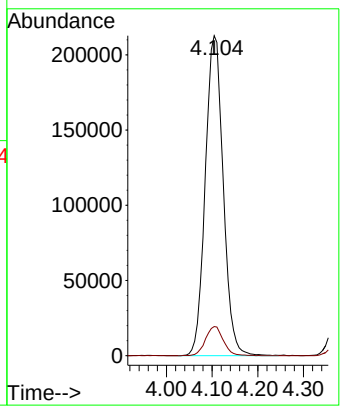


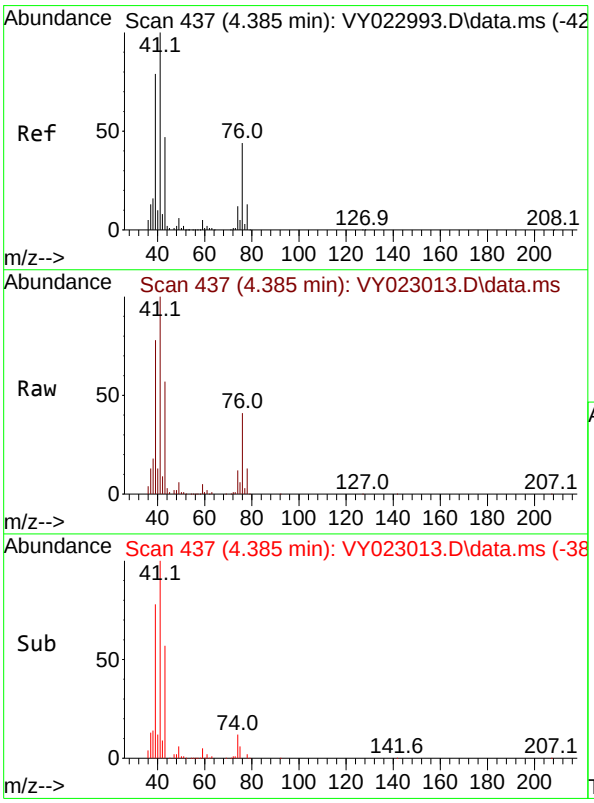
#17
Carbon Disulfide
Concen: 47.733 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 580997

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

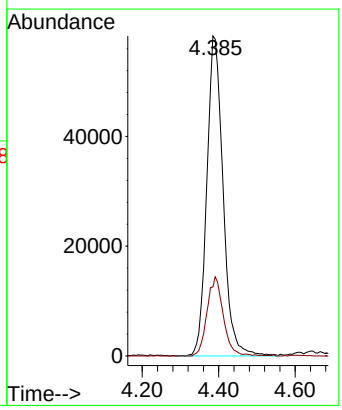


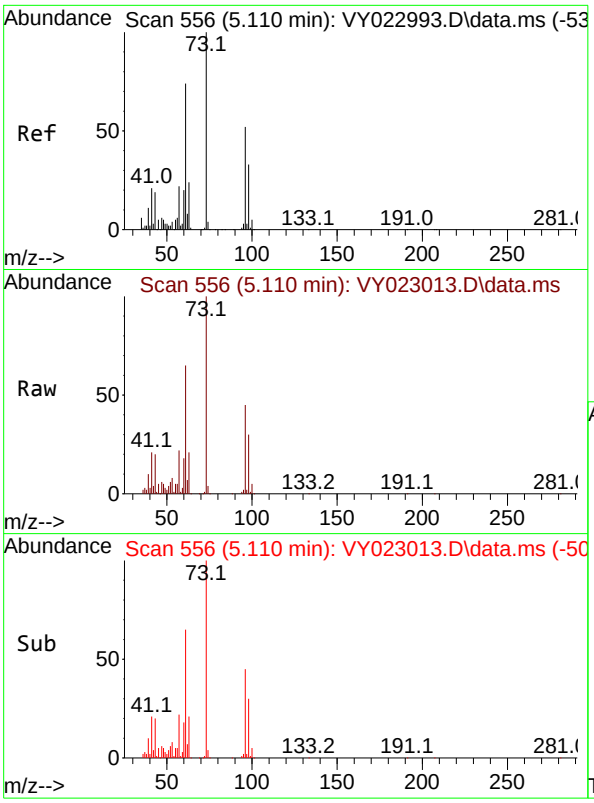


#18
Methyl Acetate
Concen: 73.334 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 172195

Ion	Ratio	Lower	Upper
43	100		
74	24.7	20.1	30.1



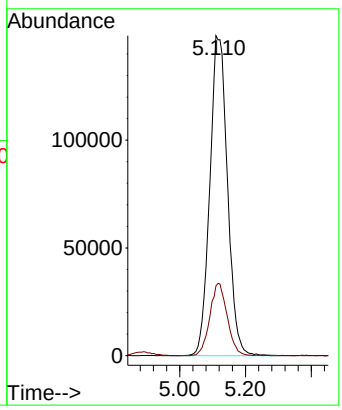


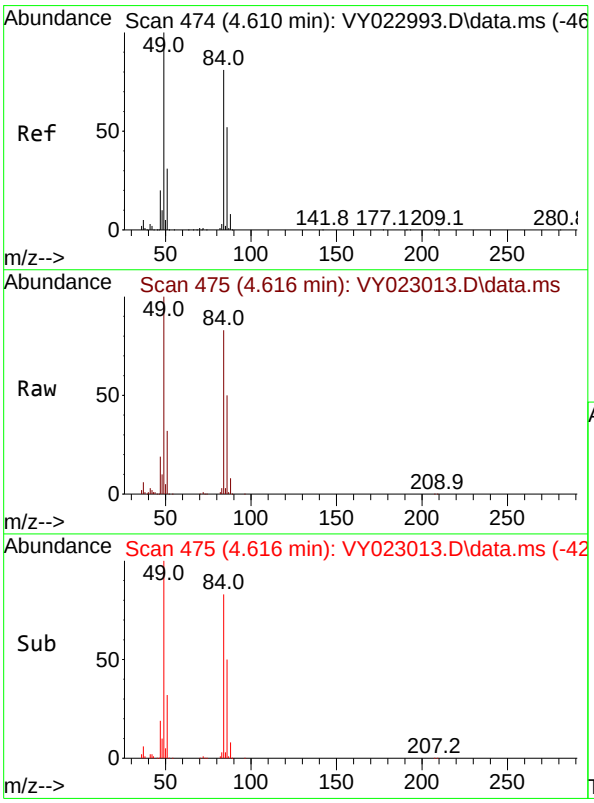
#19
Methyl tert-butyl Ether
Concen: 57.557 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 554451

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

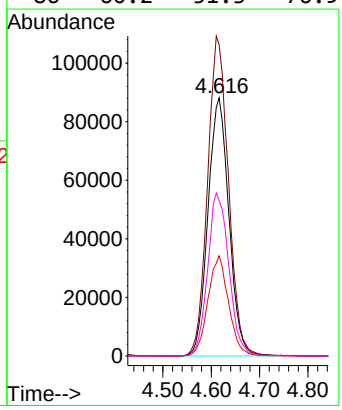


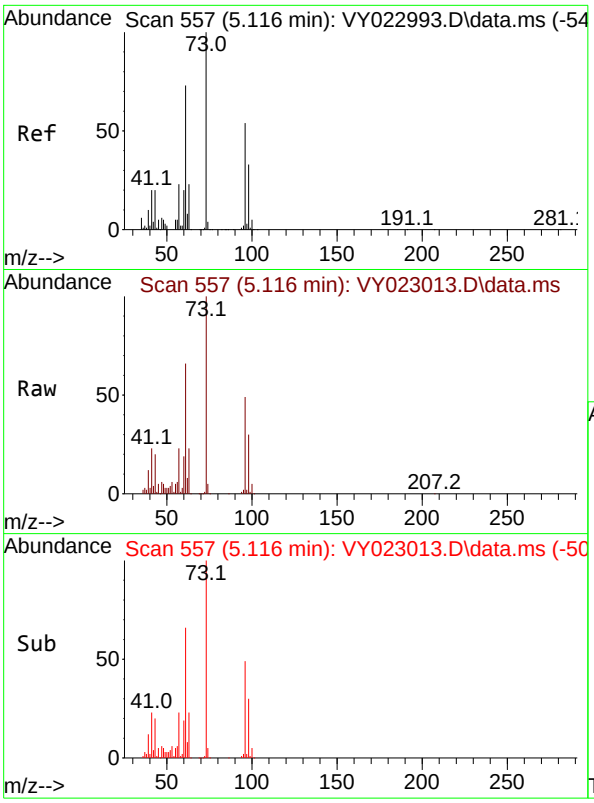


#20
Methylene Chloride
Concen: 55.283 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 84 Resp: 265399

Ion	Ratio	Lower	Upper
84	100		
49	120.4	98.2	147.4
51	38.8	30.5	45.7
86	60.2	51.3	76.9



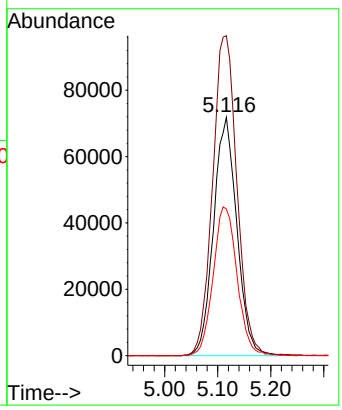


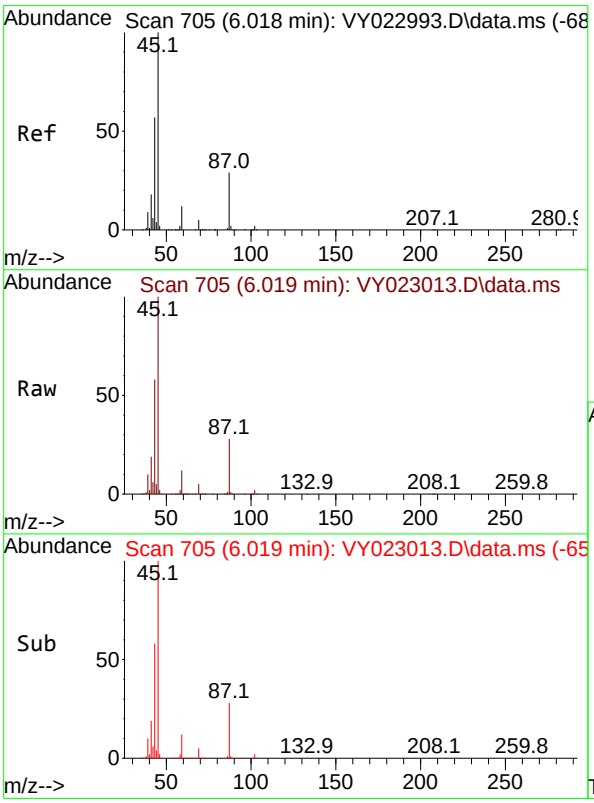
#21
trans-1,2-Dichloroethene
Concen: 49.098 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 219497

Ion	Ratio	Lower	Upper
96	100		
61	134.2	107.4	161.2
98	61.5	49.3	73.9

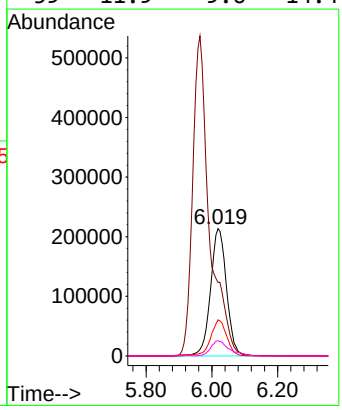


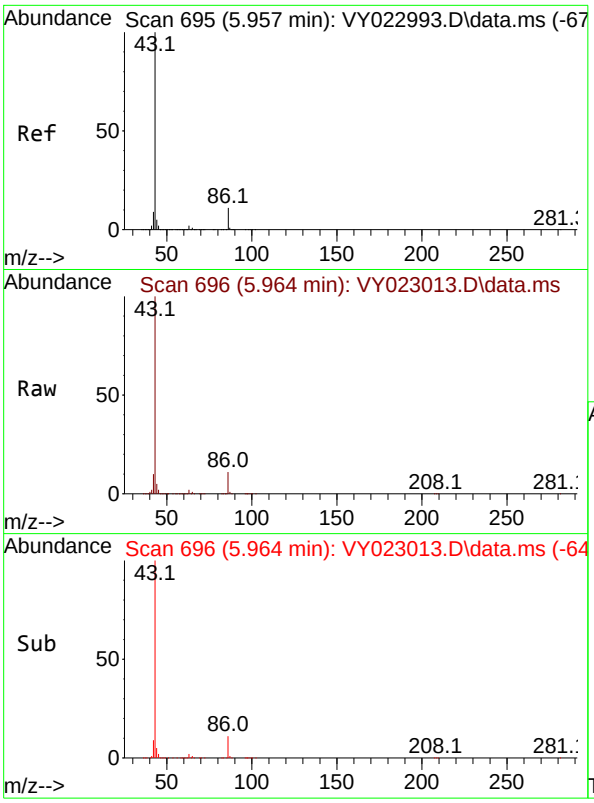


#22
Diisopropyl ether
Concen: 55.360 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 45 Resp: 718593

Ion	Ratio	Lower	Upper
45	100		
43	57.6	45.3	67.9
87	28.4	23.3	34.9
59	11.9	9.6	14.4



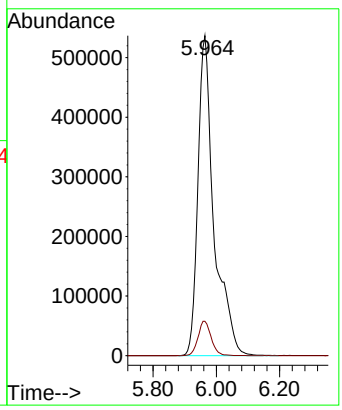


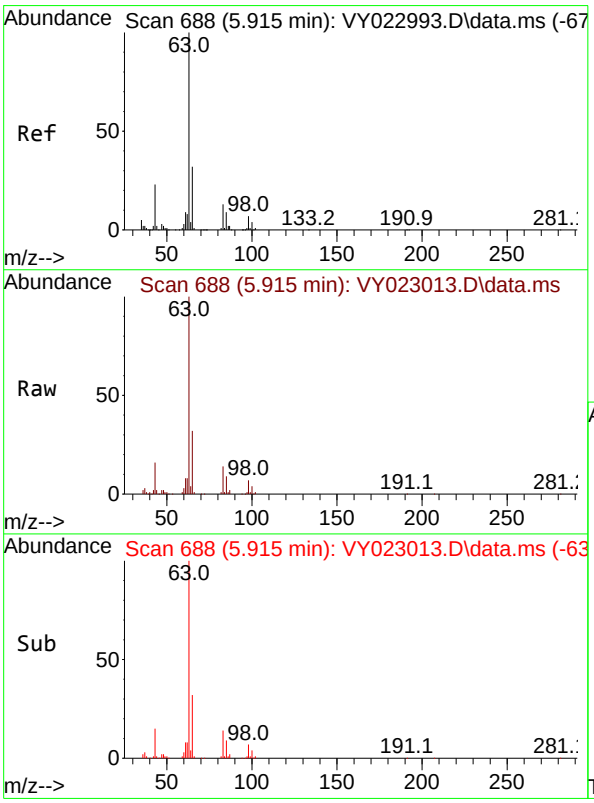
#23
Vinyl Acetate
Concen: 290.523 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1900129

Ion	Ratio	Lower	Upper
43	100		
86	10.8	9.0	13.4

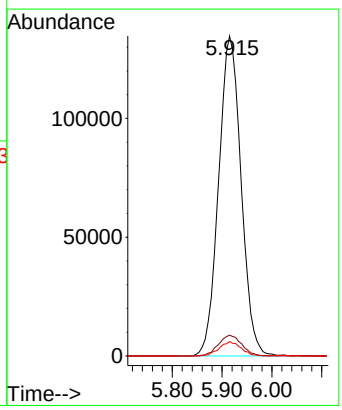


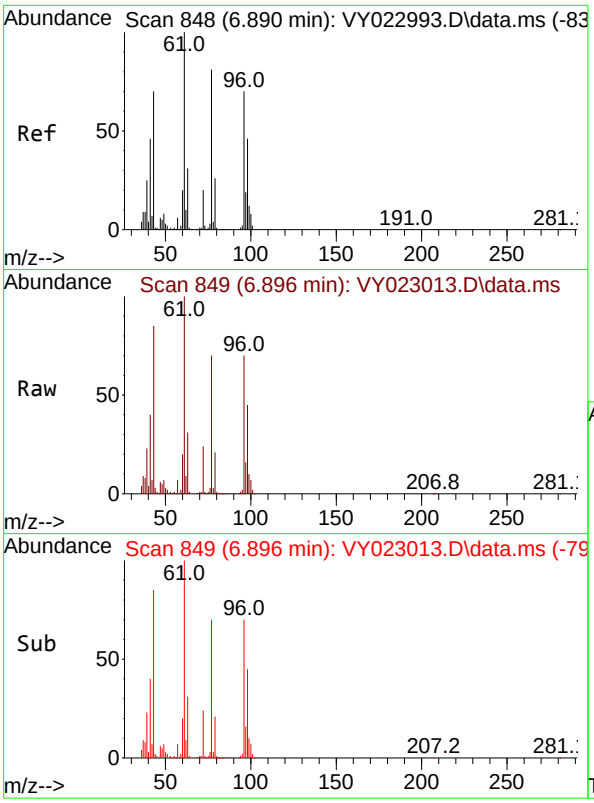


#24
1,1-Dichloroethane
Concen: 51.640 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 63 Resp: 421017

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.5
100	4.5	2.1	6.2



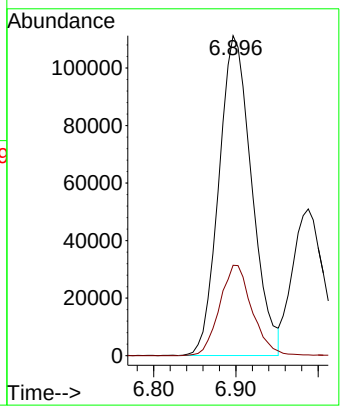


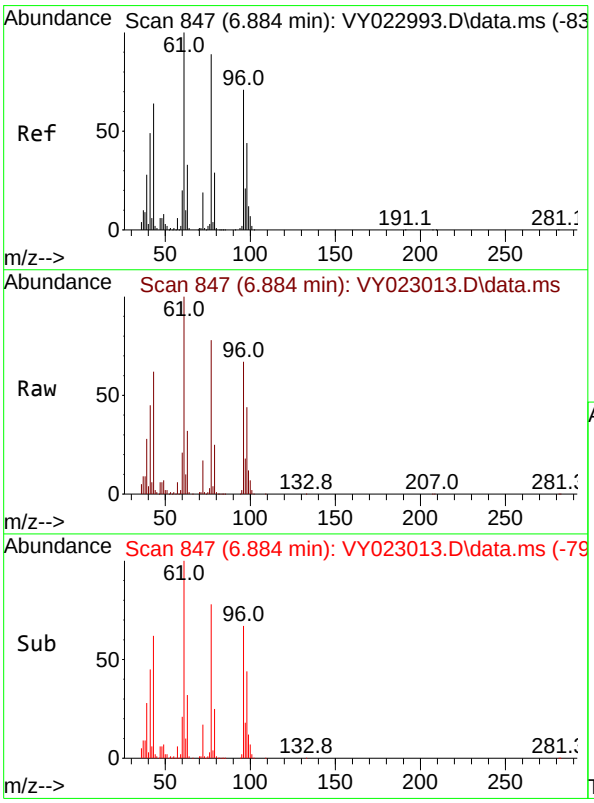
#25
2-Butanone
Concen: 310.560 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 308999

Ion	Ratio	Lower	Upper
43	100		
72	28.3	22.9	34.3

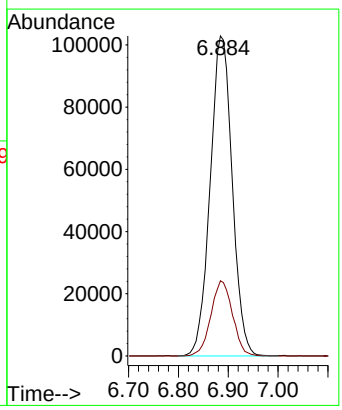


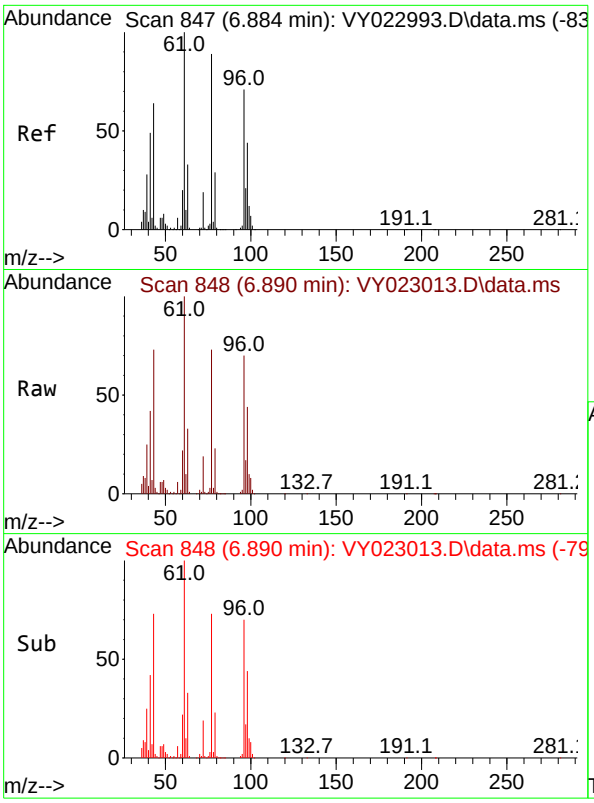


#26
2,2-Dichloropropane
Concen: 44.197 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 77 Resp: 315802

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.3	33.9



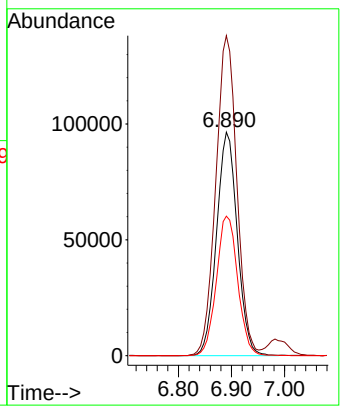


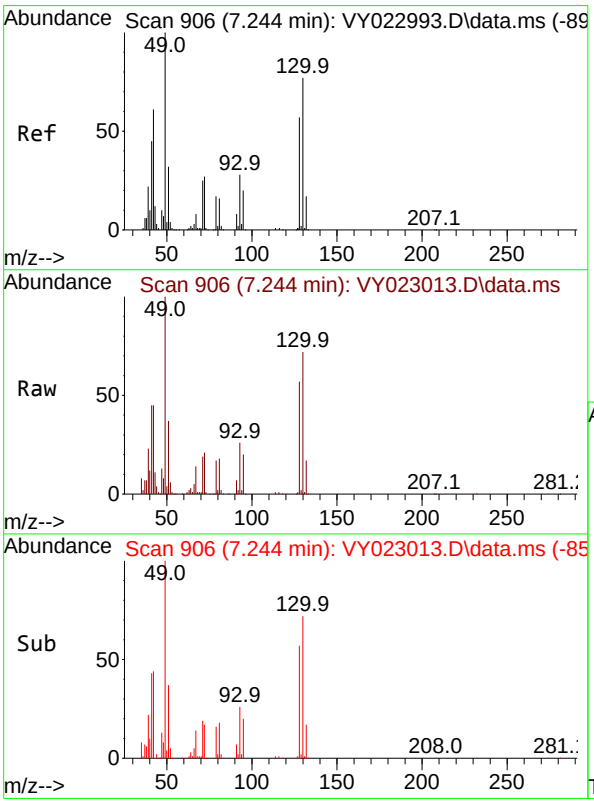
#27
cis-1,2-Dichloroethene
Concen: 50.944 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 262480

Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	286.2
98	64.4	0.0	127.4

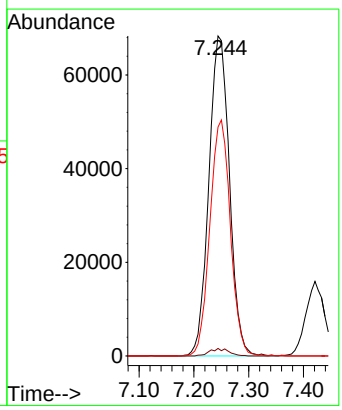


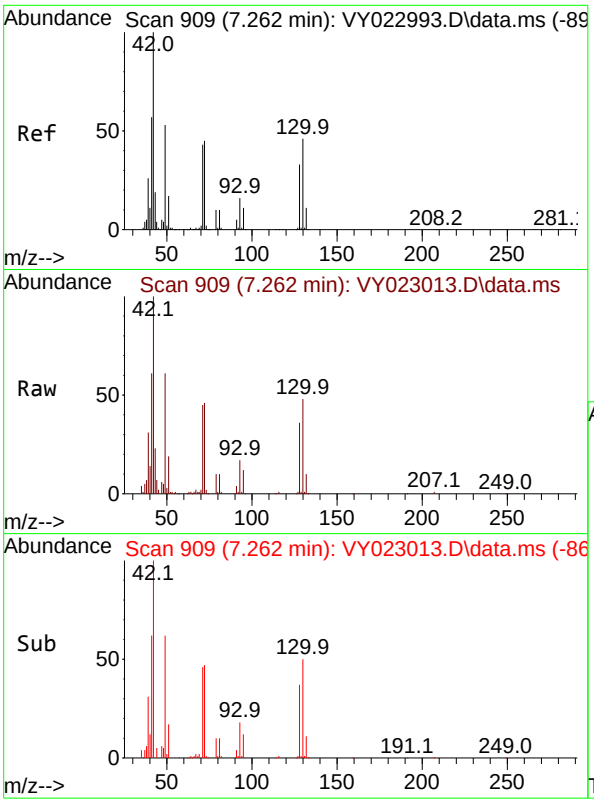


#28
Bromochloromethane
Concen: 56.337 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 49 Resp: 178147

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	73.4	61.8	92.8



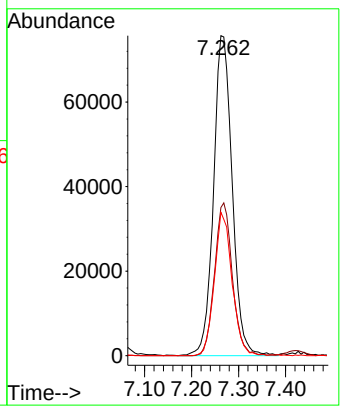


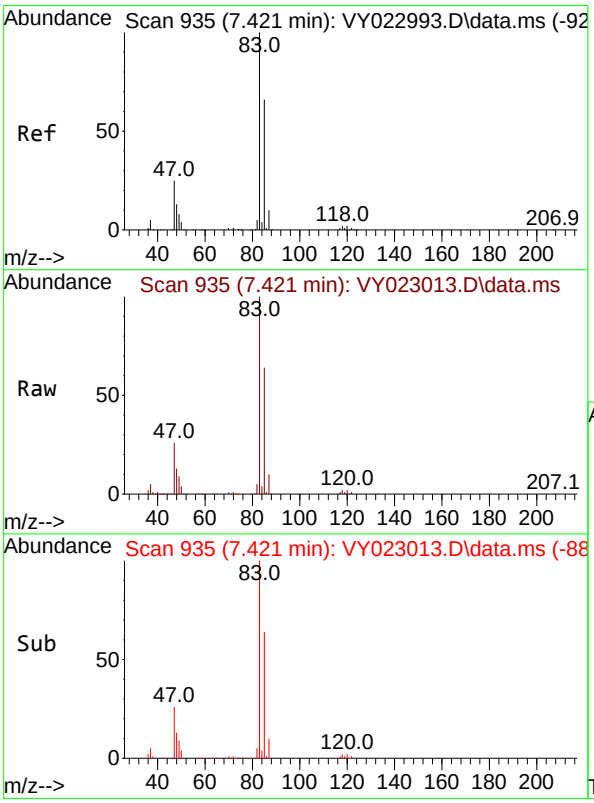
#29
Tetrahydrofuran
Concen: 332.560 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 209494

Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.5	56.3
71	42.4	34.2	51.4

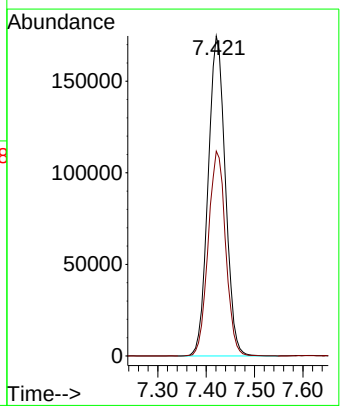


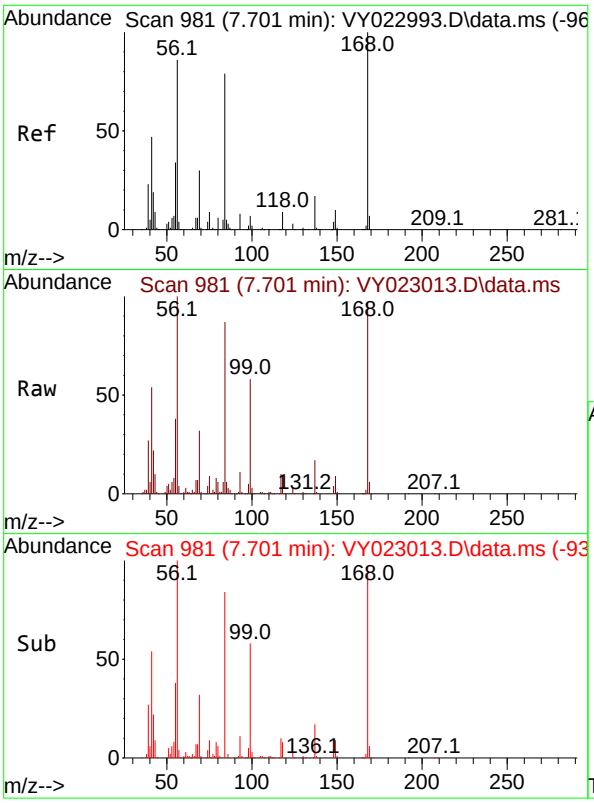


#30
Chloroform
Concen: 52.587 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 83 Resp: 432510

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	78.8



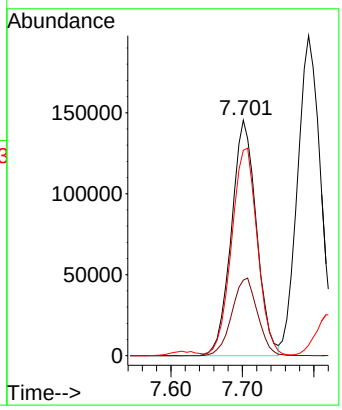


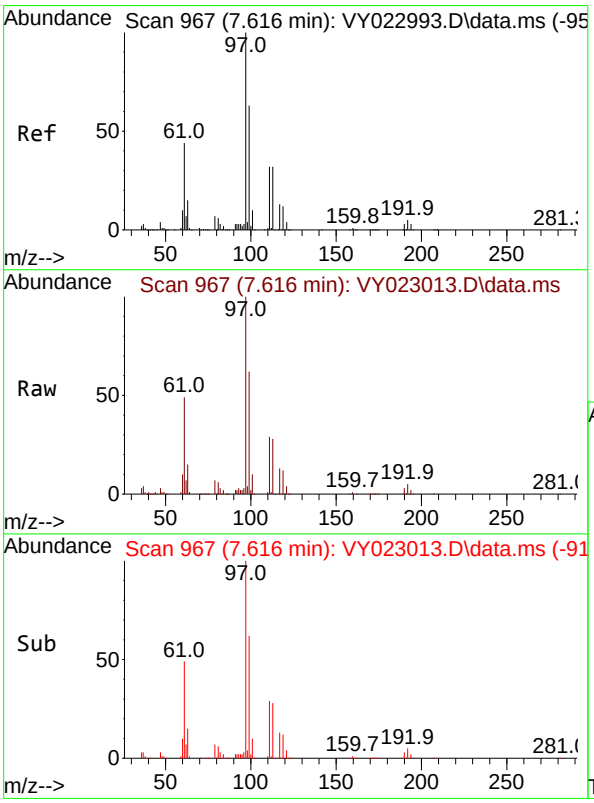
#31
Cyclohexane
Concen: 46.489 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 354155

Ion	Ratio	Lower	Upper
56	100		
69	32.1	28.1	42.1
84	85.6	73.5	110.3

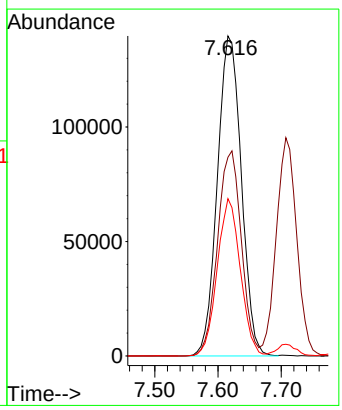


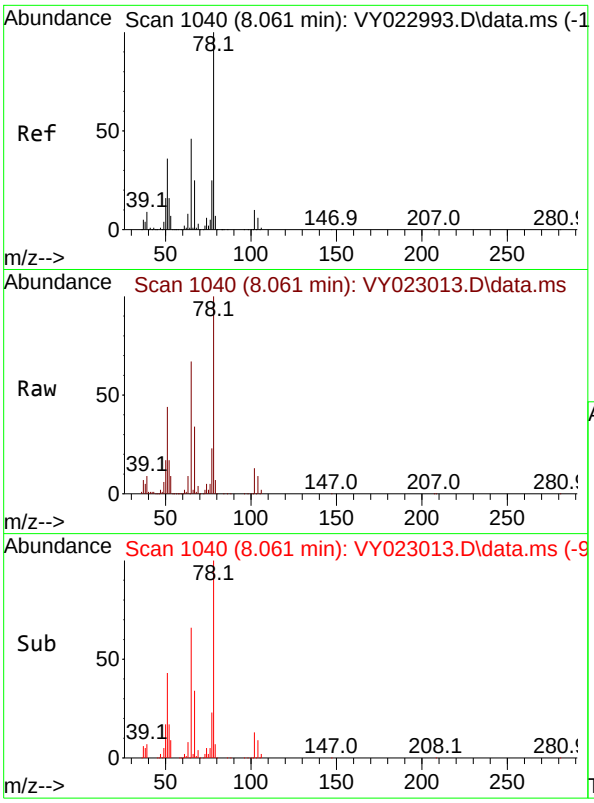


#32
1,1,1-Trichloroethane
Concen: 49.245 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 97 Resp: 367493

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	47.6	36.1	54.1



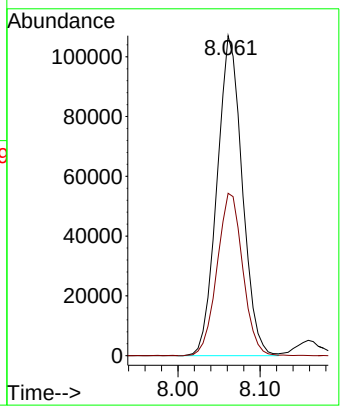


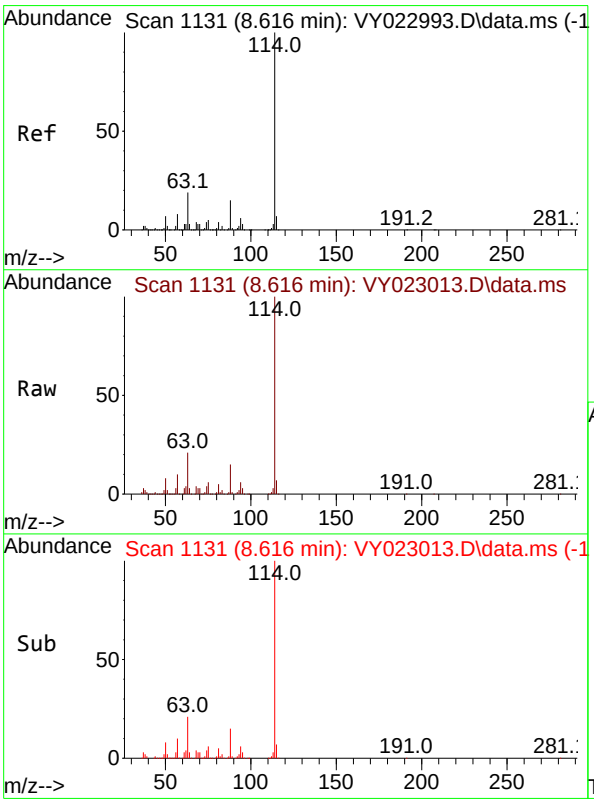
#33
1,2-Dichloroethane-d4
Concen: 59.671 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 228310

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	107.4

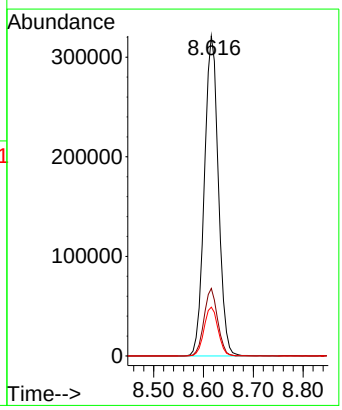


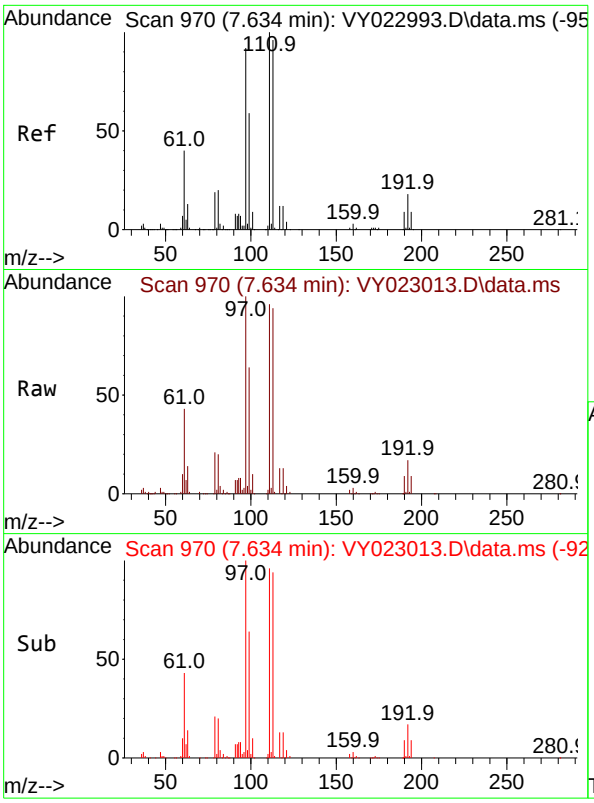


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:114 Resp: 625472

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	38.8
88	15.3	0.0	30.2



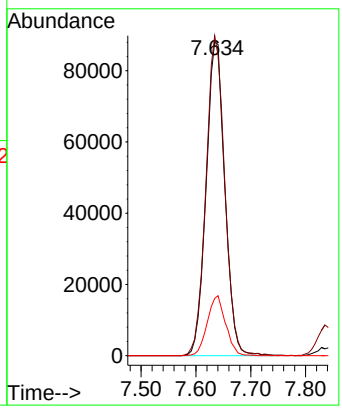


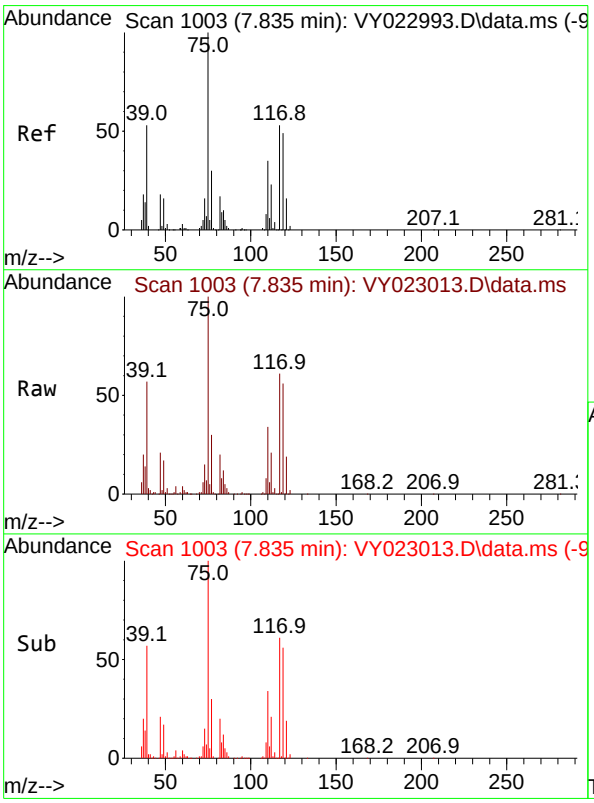
#35
Dibromofluoromethane
Concen: 52.613 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 208746

Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.2	124.8
192	18.7	15.3	22.9

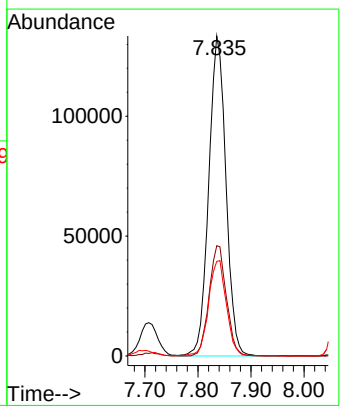


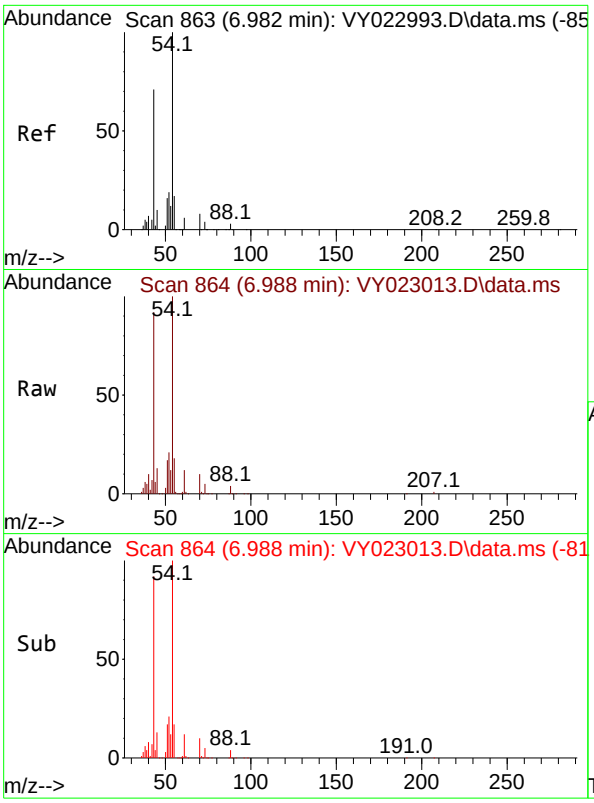


#36
1,1-Dichloropropene
Concen: 48.175 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 301074

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	30.8	24.6	37.0



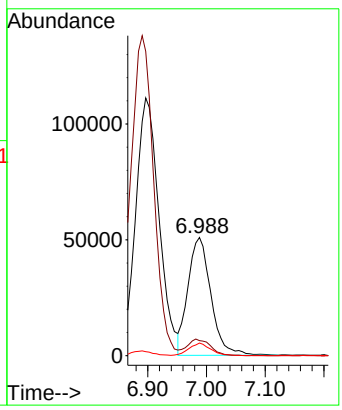


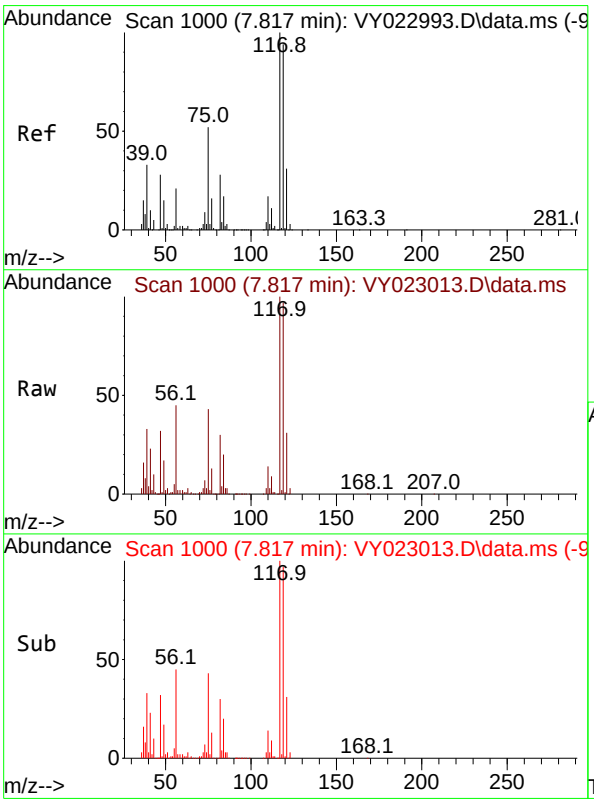
#37
Ethyl Acetate
Concen: 59.479 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 138056

Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.6	17.4
70	10.2	8.5	12.7

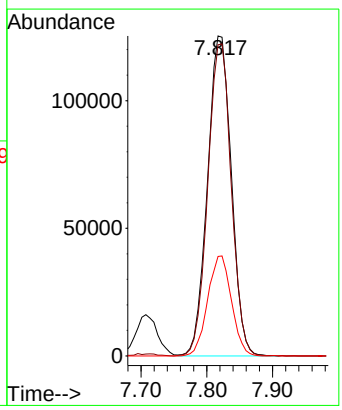


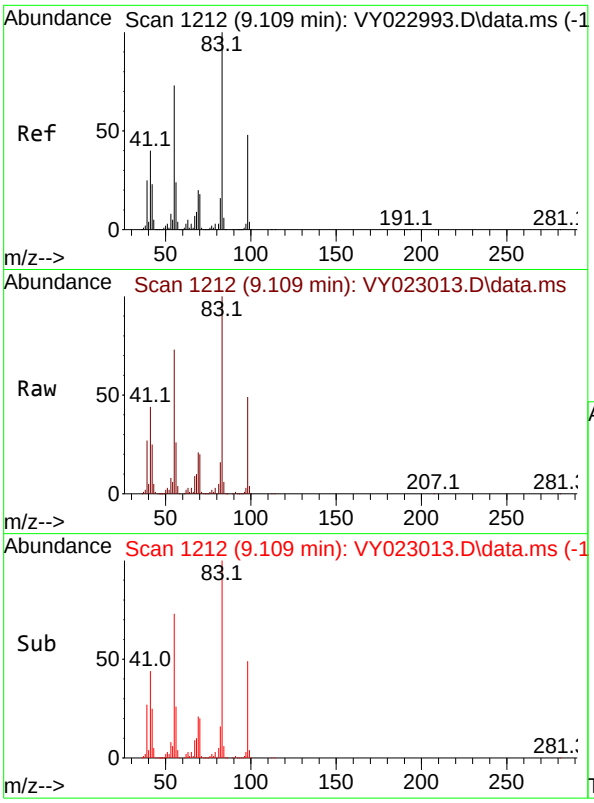


#38
Carbon Tetrachloride
Concen: 46.638 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:117 Resp: 316660

Ion	Ratio	Lower	Upper
117	100		
119	97.3	74.9	112.3
121	31.1	24.6	37.0



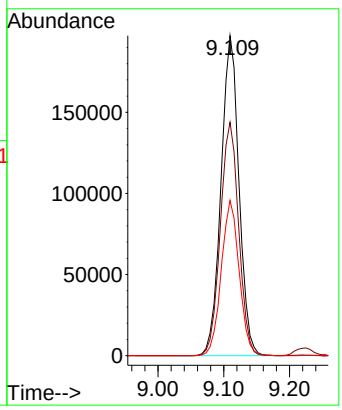


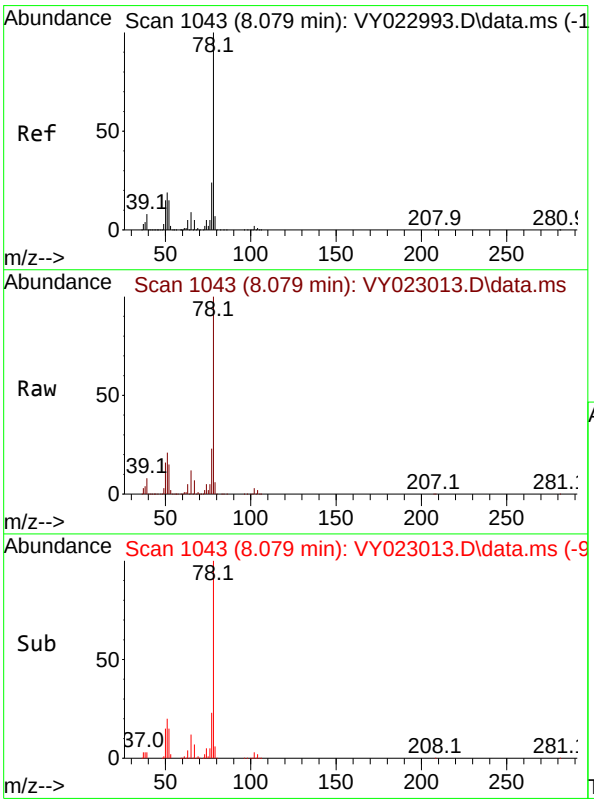
#39
Methylcyclohexane
Concen: 46.332 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 374781

Ion	Ratio	Lower	Upper
83	100		
55	73.0	58.1	87.1
98	48.5	38.5	57.7

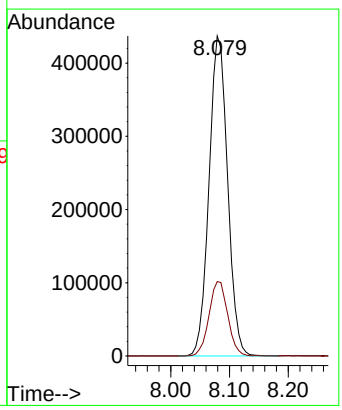


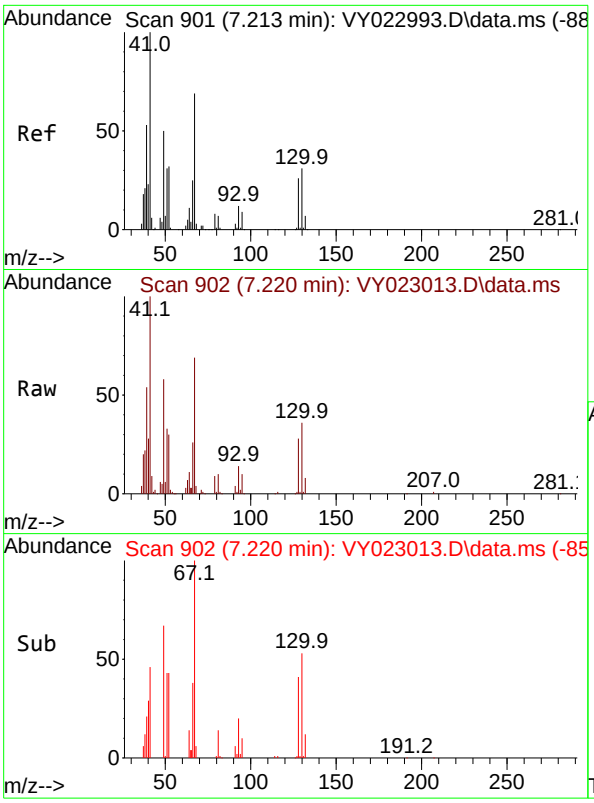


#40
Benzene
Concen: 50.962 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 78 Resp: 958949

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4



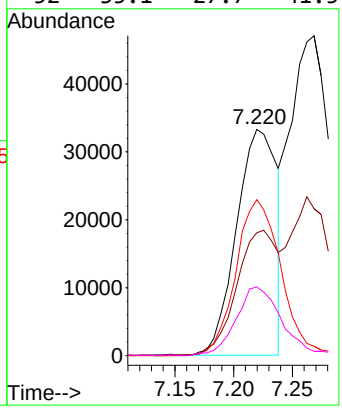


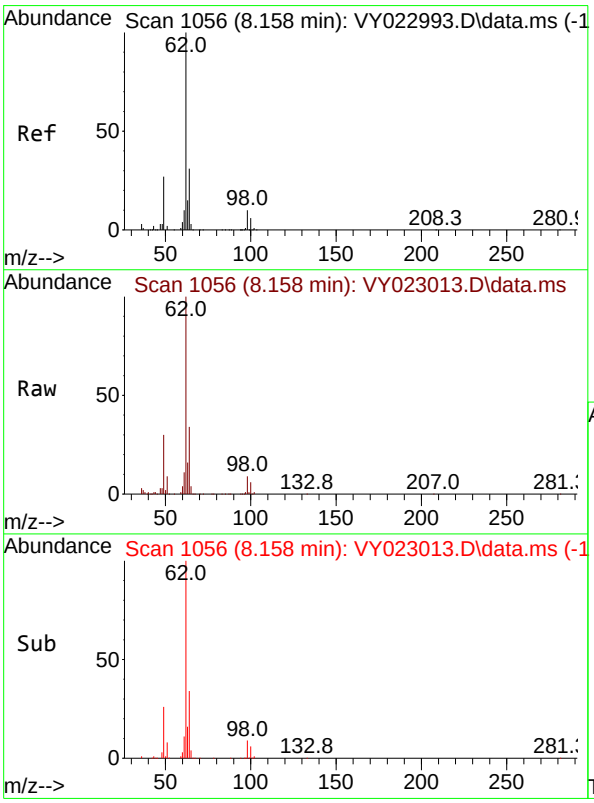
#41
Methacrylonitrile
Concen: 62.602 ug/l
RT: 7.220 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 79155

Ion	Ratio	Lower	Upper
41	100		
39	56.0	50.0	75.0
67	78.1	65.4	98.2
52	35.1	27.7	41.5

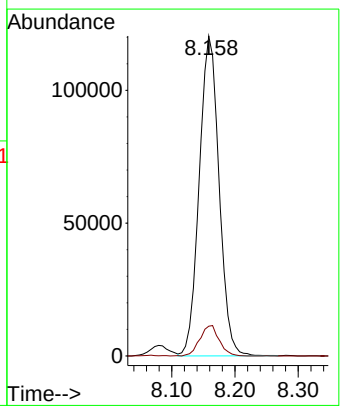


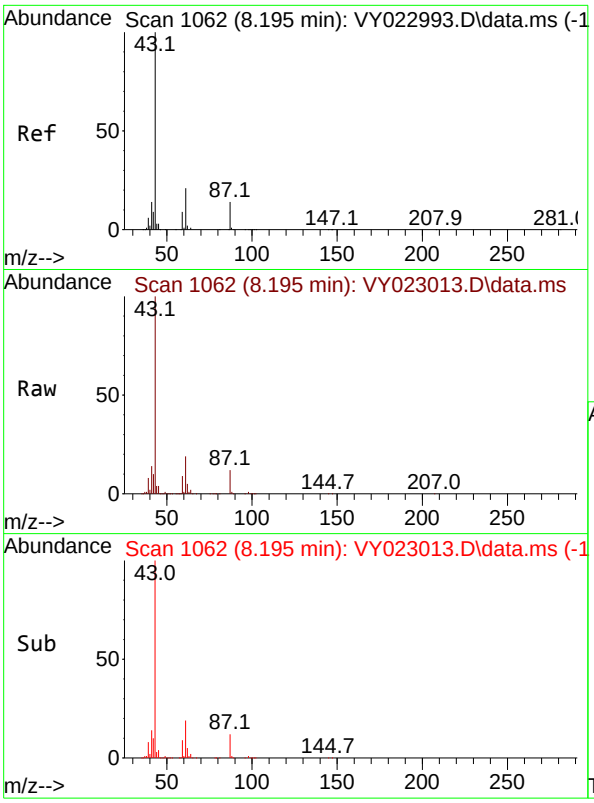


#42
1,2-Dichloroethane
Concen: 56.192 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 62 Resp: 263065

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.0



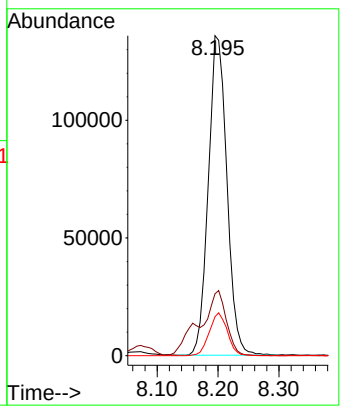


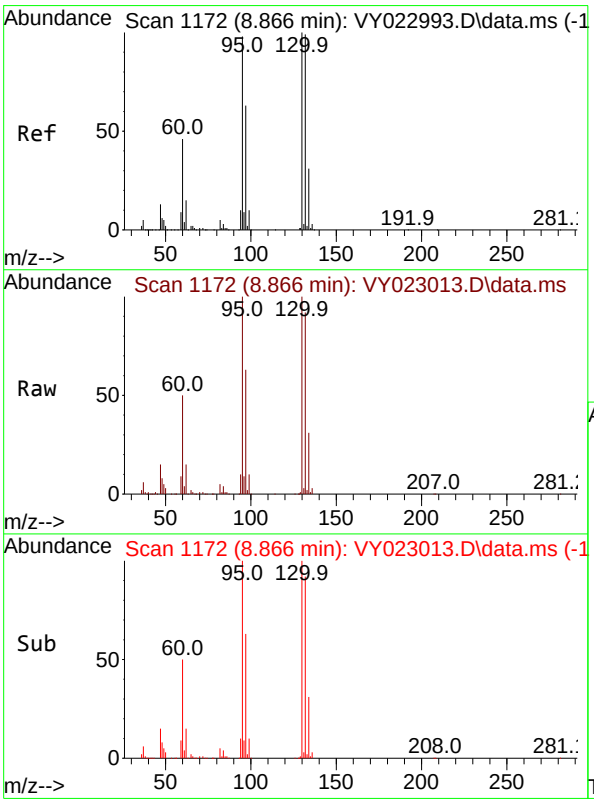
#43
Isopropyl Acetate
Concen: 62.492 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 288120

Ion	Ratio	Lower	Upper
43	100		
61	20.4	25.0	37.4#
87	13.1	11.1	16.7

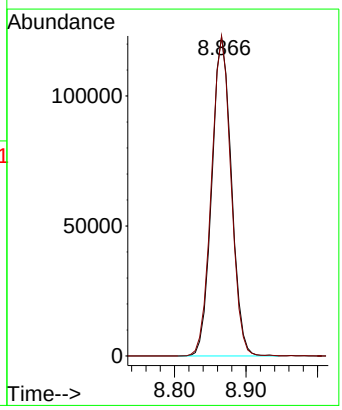


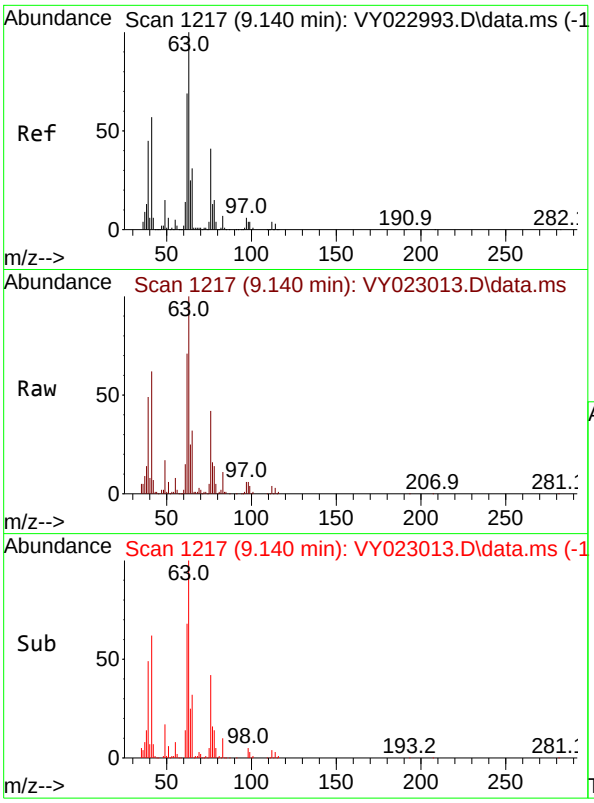


#44
Trichloroethene
Concen: 48.241 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:130 Resp: 233155

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	195.8



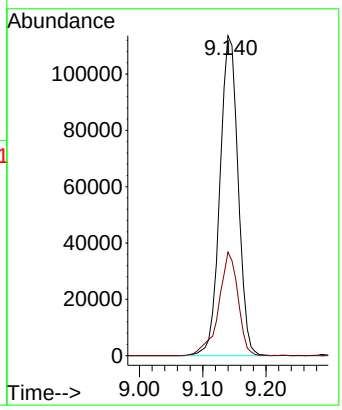


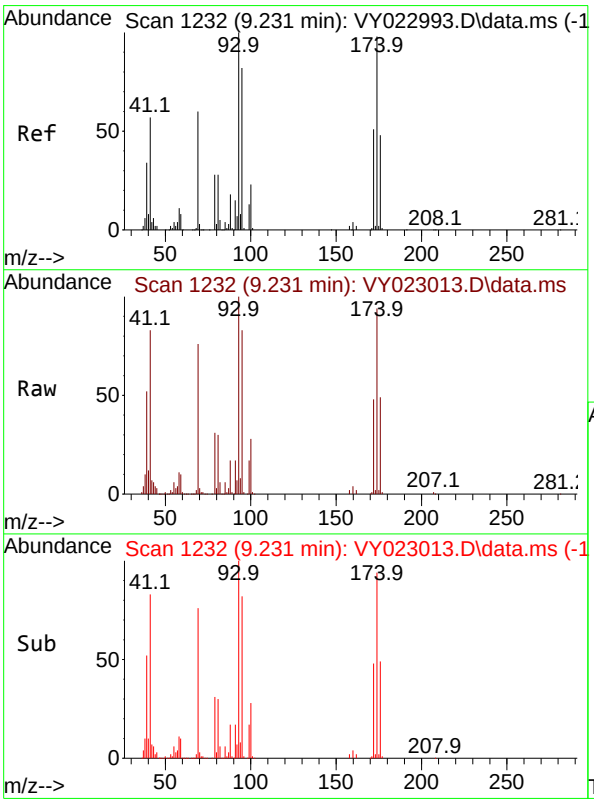
#45
1,2-Dichloropropane
Concen: 51.456 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 226109

Ion	Ratio	Lower	Upper
63	100		
65	32.3	24.6	37.0

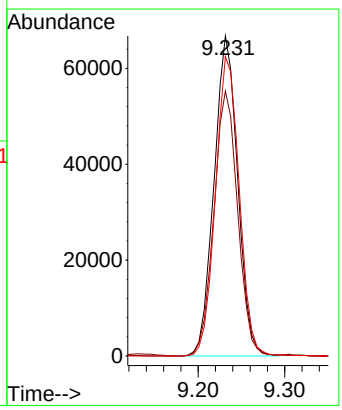


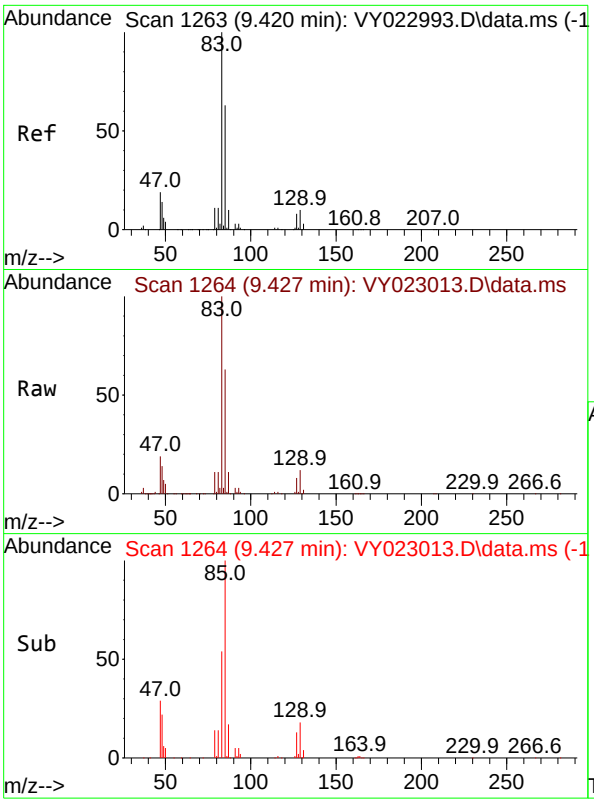


#46
Dibromomethane
Concen: 55.711 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 93 Resp: 126540

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.9	98.9
174	93.8	76.4	114.6



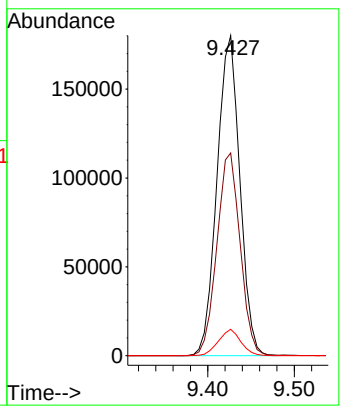


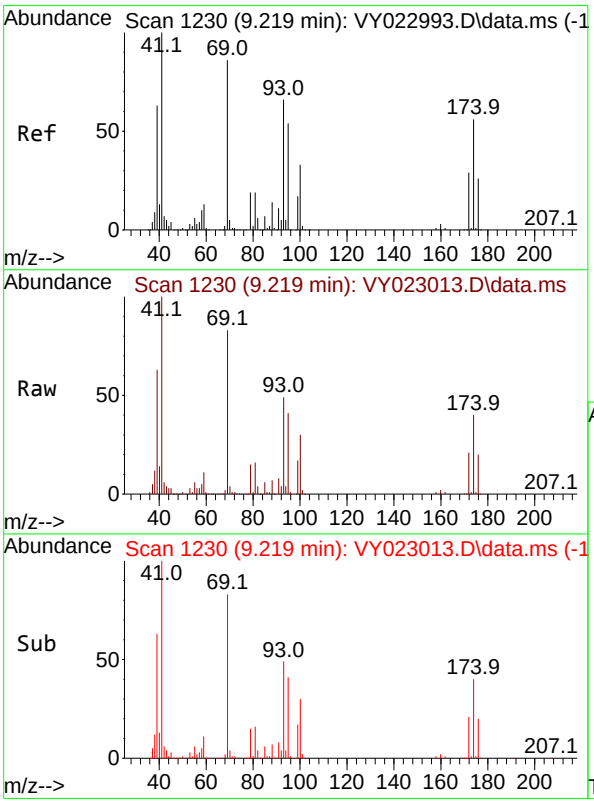
#47
Bromodichloromethane
Concen: 52.581 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 330126

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.6	75.8
127	8.3	6.5	9.7

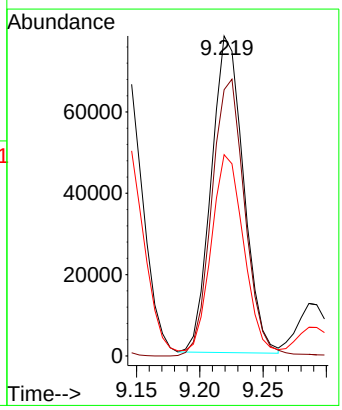


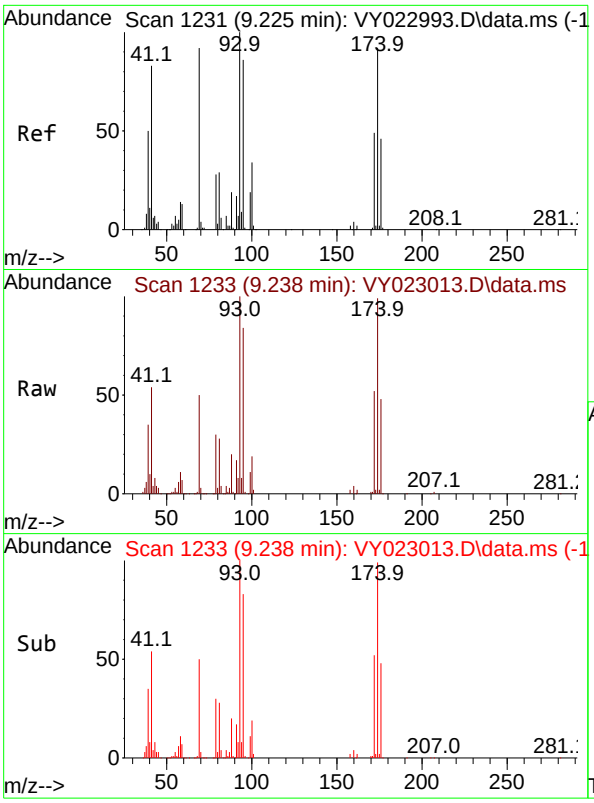


#48
Methyl methacrylate
Concen: 61.977 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 41 Resp: 137956

Ion	Ratio	Lower	Upper
41	100		
69	90.2	71.4	107.0
39	61.7	47.8	71.8



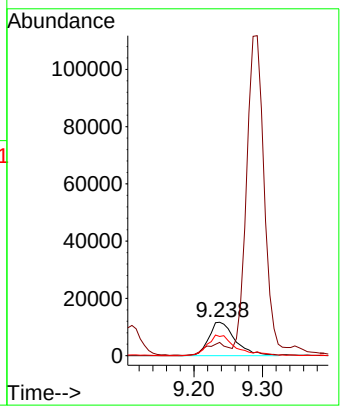


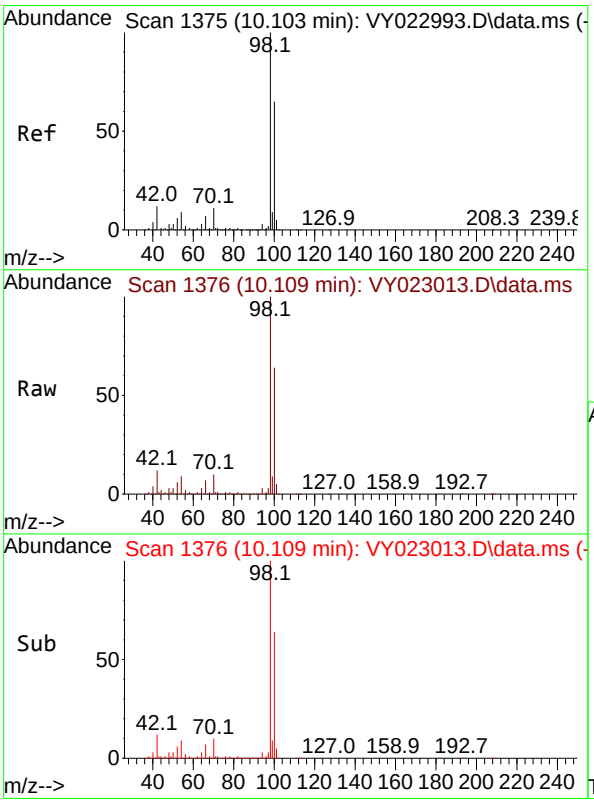
#49
1,4-Dioxane
Concen: 1302.771 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 31191

Ion	Ratio	Lower	Upper
88	100		
43	31.9	28.7	43.1
58	66.4	59.8	89.6

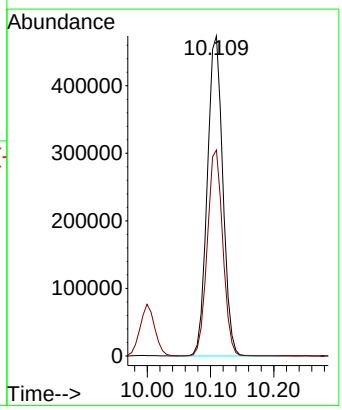


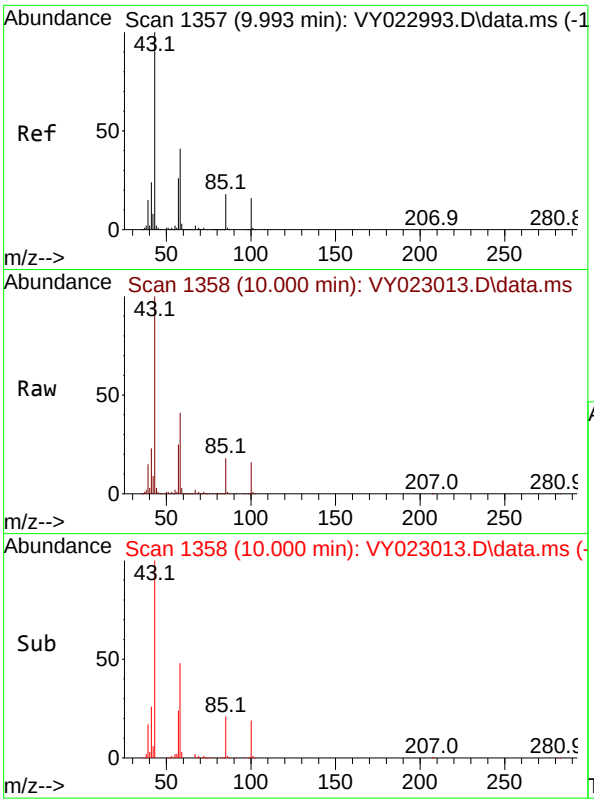


#50
Toluene-d8
Concen: 51.260 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 98 Resp: 806530

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2



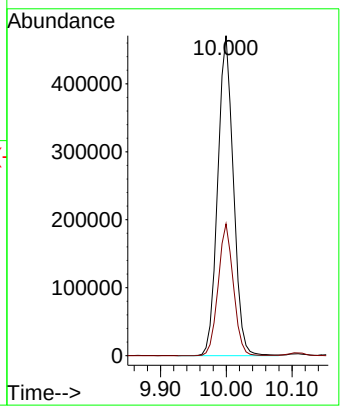


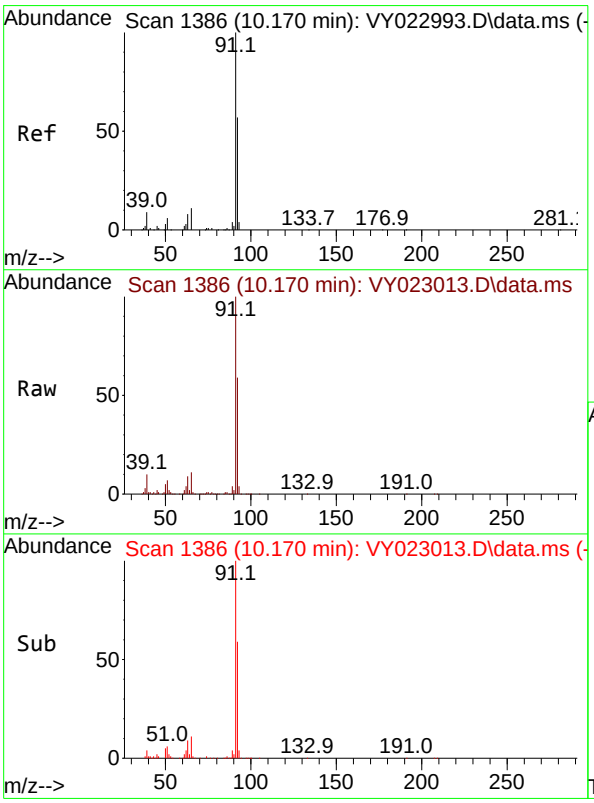
#51
4-Methyl-2-Pentanone
Concen: 332.819 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 778848

Ion	Ratio	Lower	Upper
43	100		
58	40.1	32.5	48.7

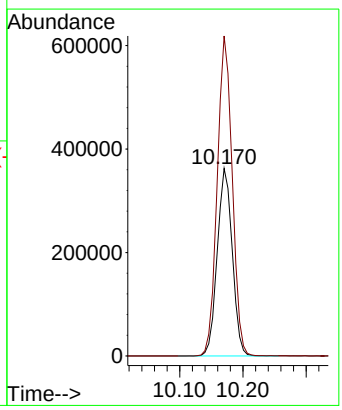


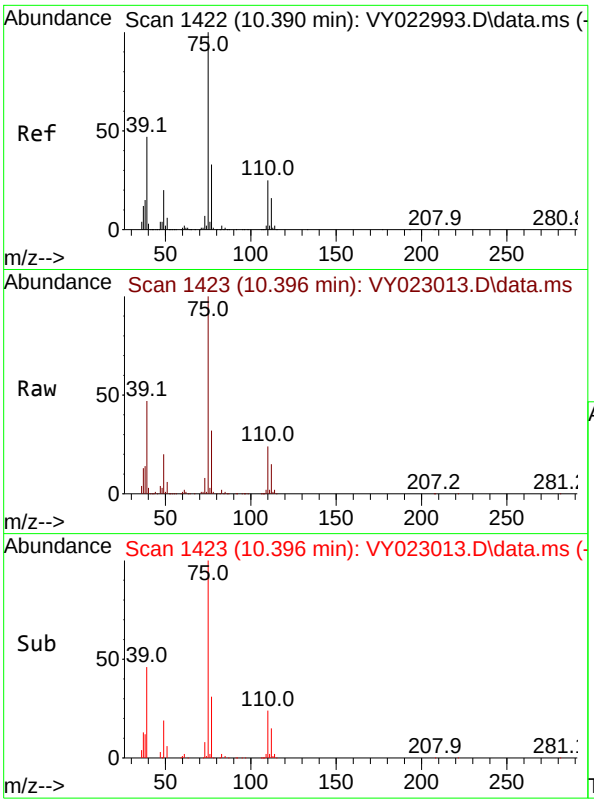


#52
Toluene
Concen: 50.957 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 92 Resp: 596148

Ion	Ratio	Lower	Upper
92	100		
91	170.5	137.8	206.6



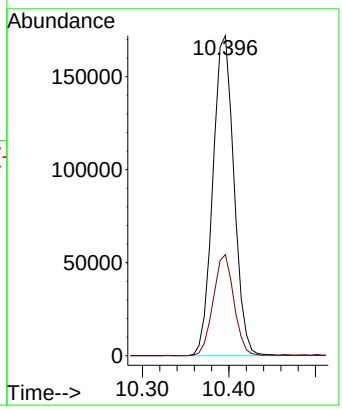


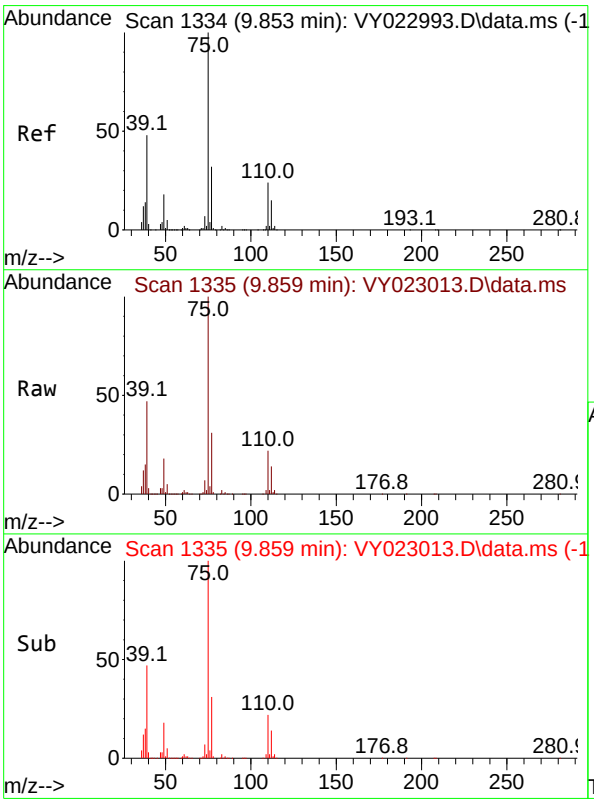
#53
t-1,3-Dichloropropene
Concen: 53.962 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 290824

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.4	39.6

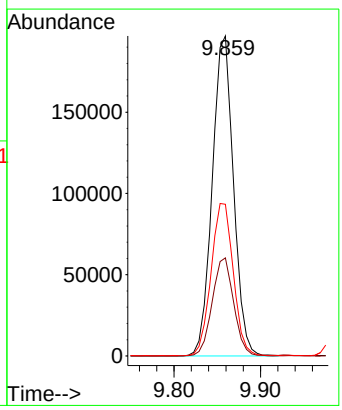


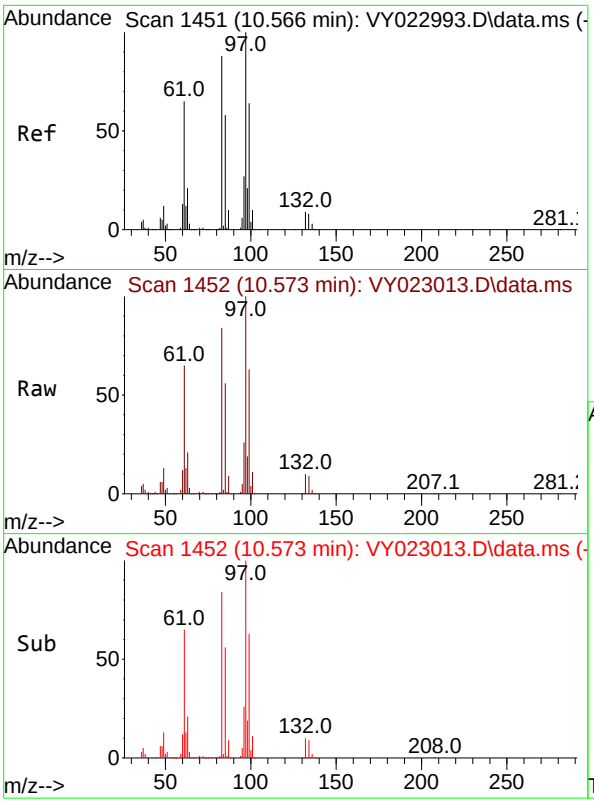


#54
cis-1,3-Dichloropropene
Concen: 51.650 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 335517

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	47.3	38.2	57.2



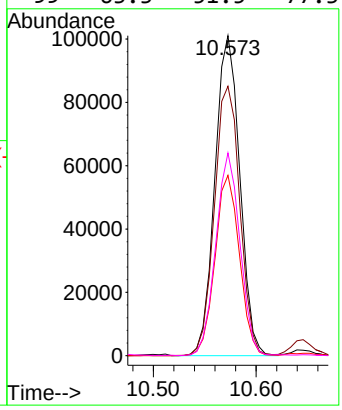


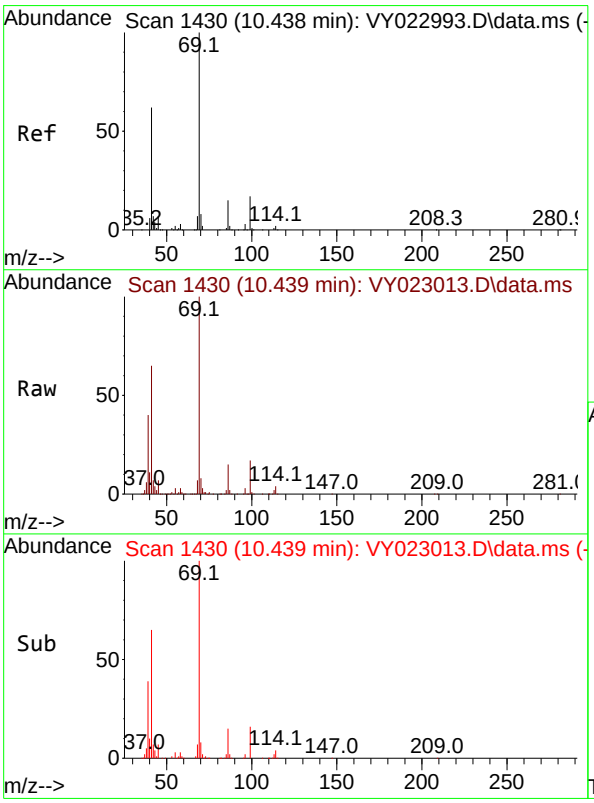
#55
1,1,2-Trichloroethane
Concen: 57.023 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 170233

Ion	Ratio	Lower	Upper
97	100		
83	84.2	70.2	105.2
85	56.2	46.2	69.2
99	63.3	51.5	77.3

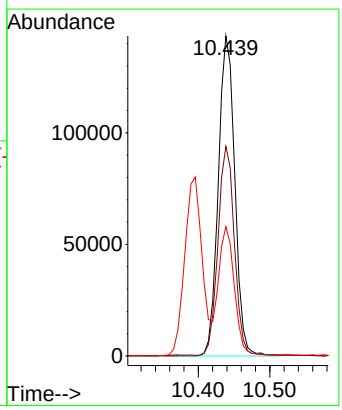


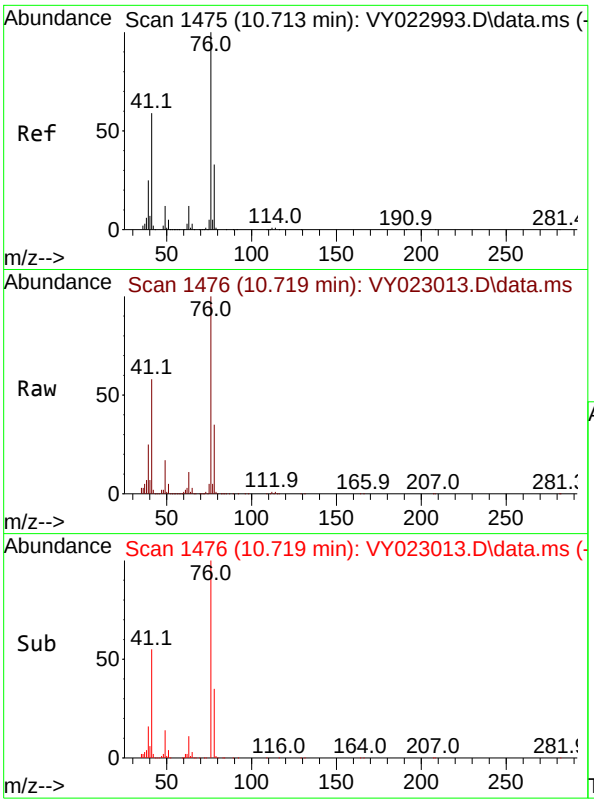


#56
Ethyl methacrylate
Concen: 61.668 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 69 Resp: 229815

Ion	Ratio	Lower	Upper
69	100		
41	64.9	51.0	76.4
39	37.9	30.6	46.0



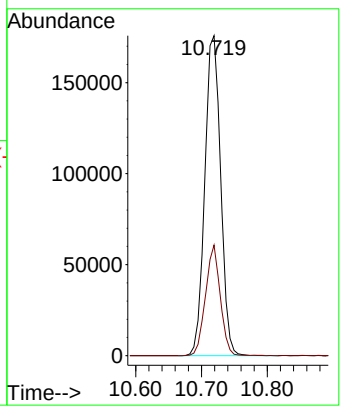


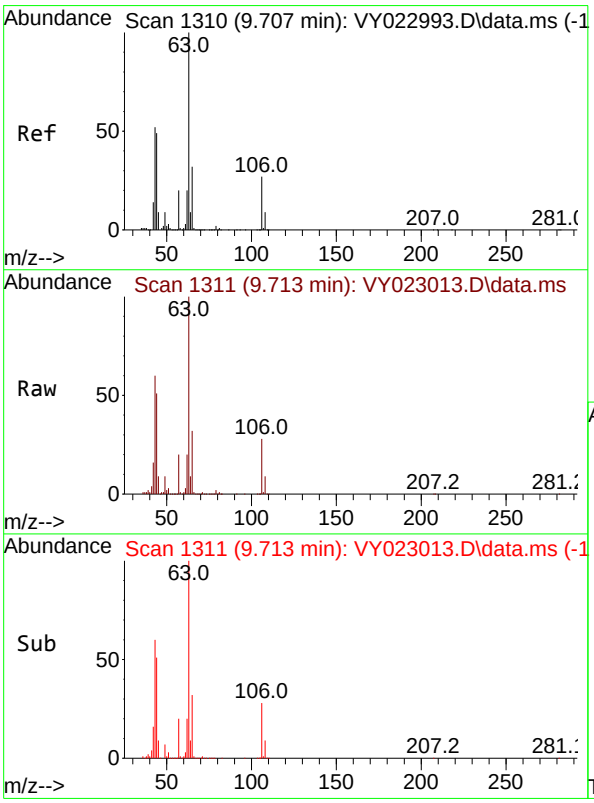
#57
1,3-Dichloropropane
Concen: 57.137 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 294658

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.6	39.8

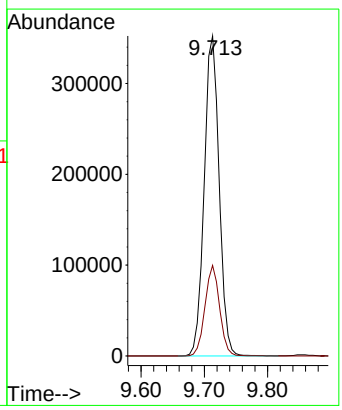


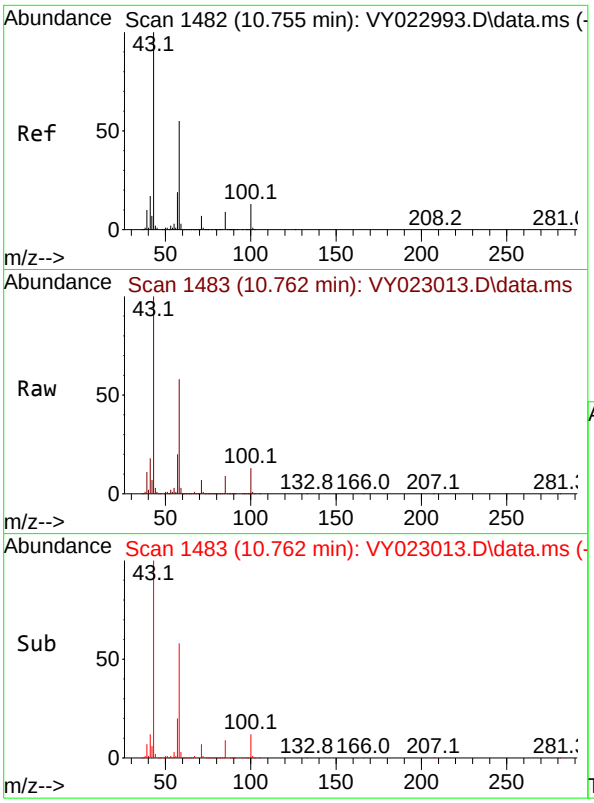


#58
2-Chloroethyl Vinyl ether
Concen: 317.300 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 63 Resp: 578833

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.6	33.8



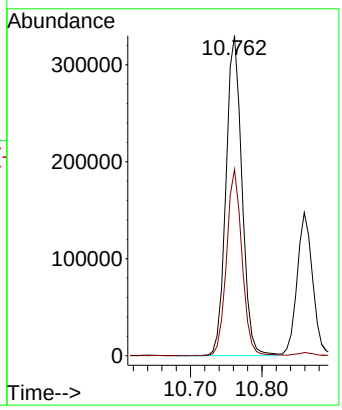


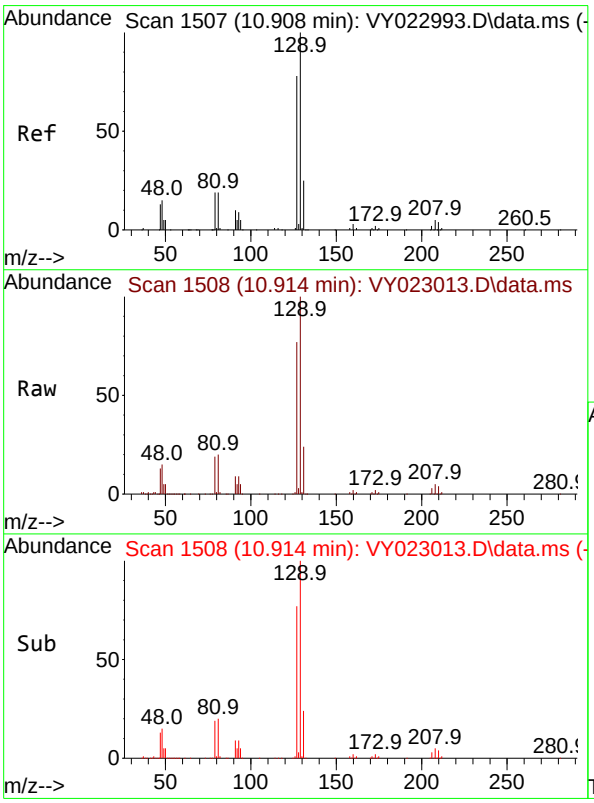
#59
2-Hexanone
Concen: 332.267 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 511100

Ion	Ratio	Lower	Upper
43	100		
58	56.3	28.1	84.3

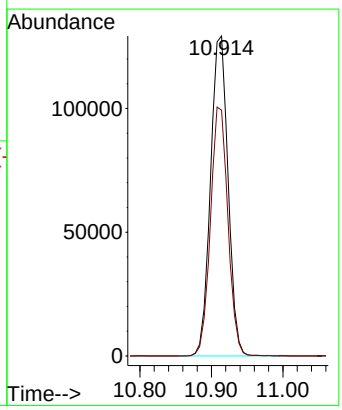


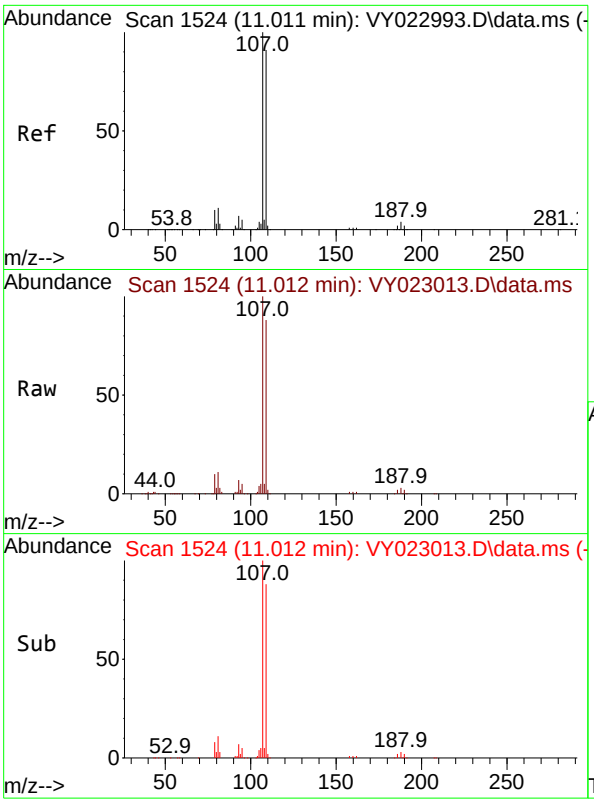


#60
Dibromochloromethane
Concen: 56.249 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:129 Resp: 219889

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.7	116.1



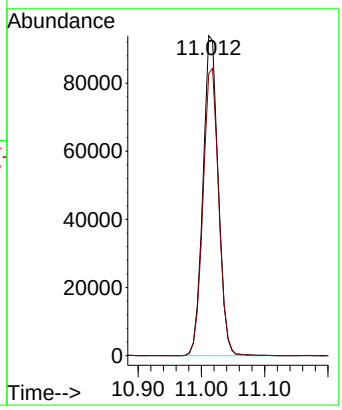


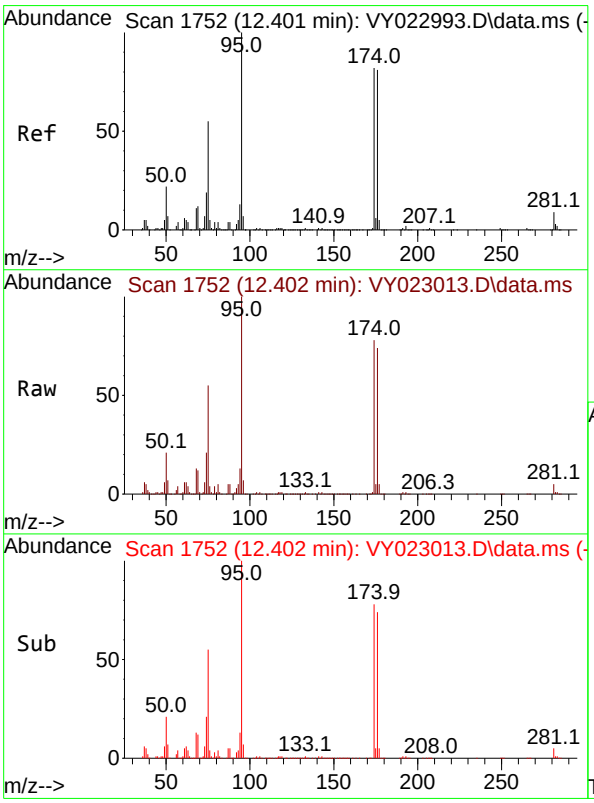
#61
1,2-Dibromoethane
Concen: 58.364 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 158224

Ion	Ratio	Lower	Upper
107	100		
109	92.3	75.1	112.7

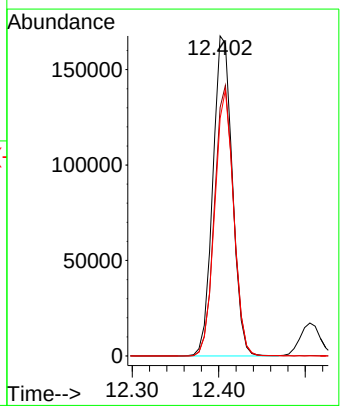


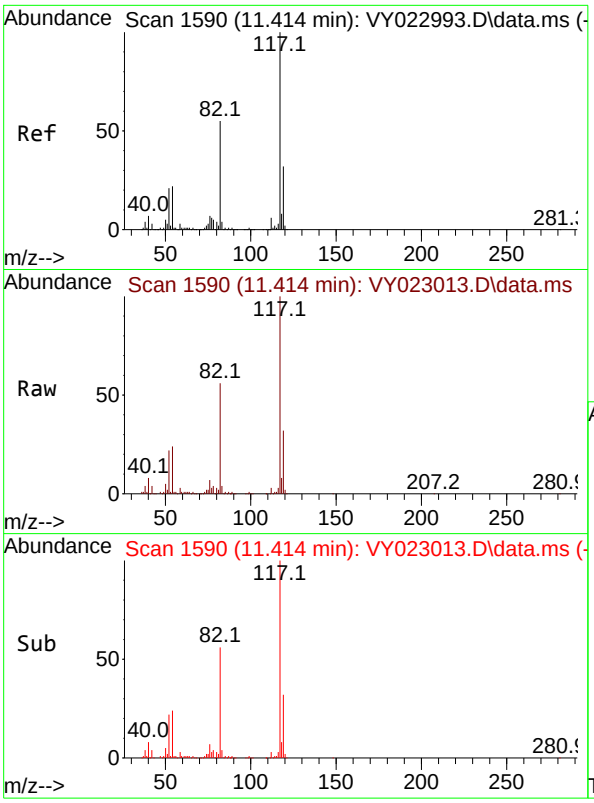


#62
4-Bromofluorobenzene
Concen: 52.830 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 95 Resp: 261655

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.8
176	80.8	0.0	163.6



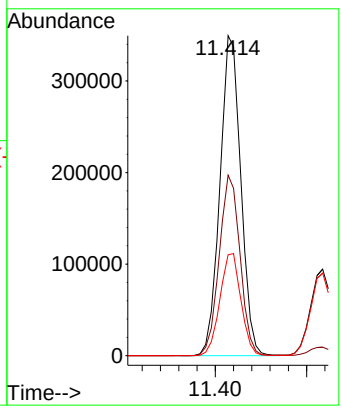


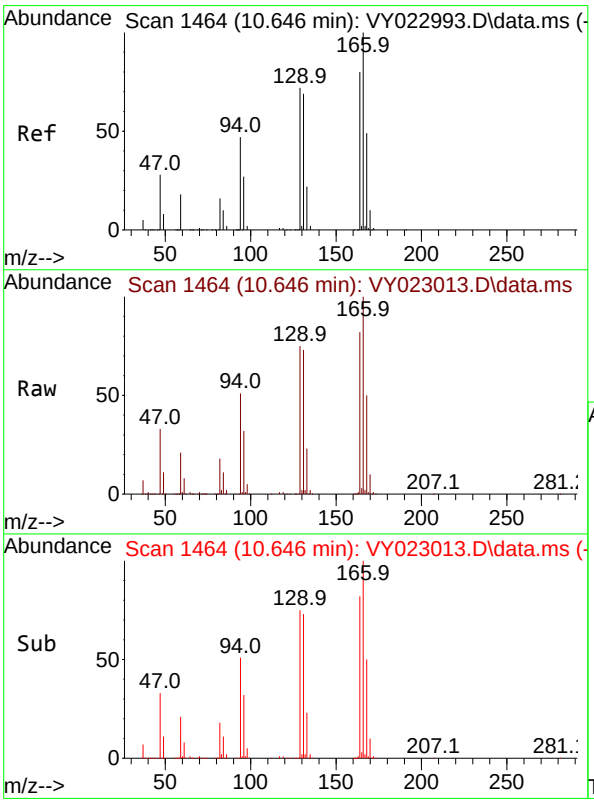
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 554651

Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.3	66.5
119	31.5	25.8	38.8

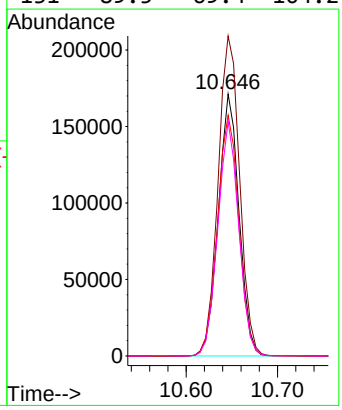


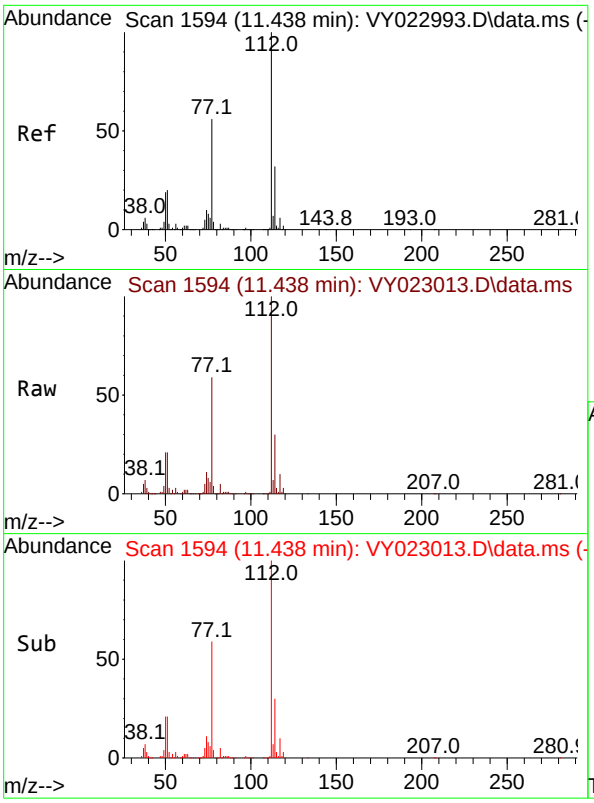


#64
Tetrachloroethene
Concen: 47.704 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:164 Resp: 270447

Ion	Ratio	Lower	Upper
164	100		
166	122.2	100.2	150.2
129	91.9	71.7	107.5
131	89.5	69.4	104.2



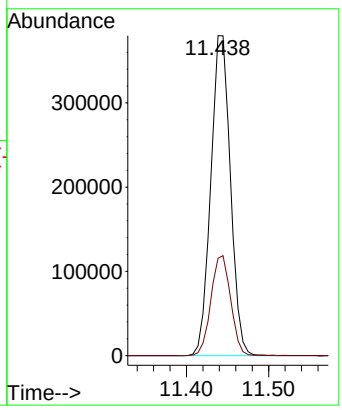


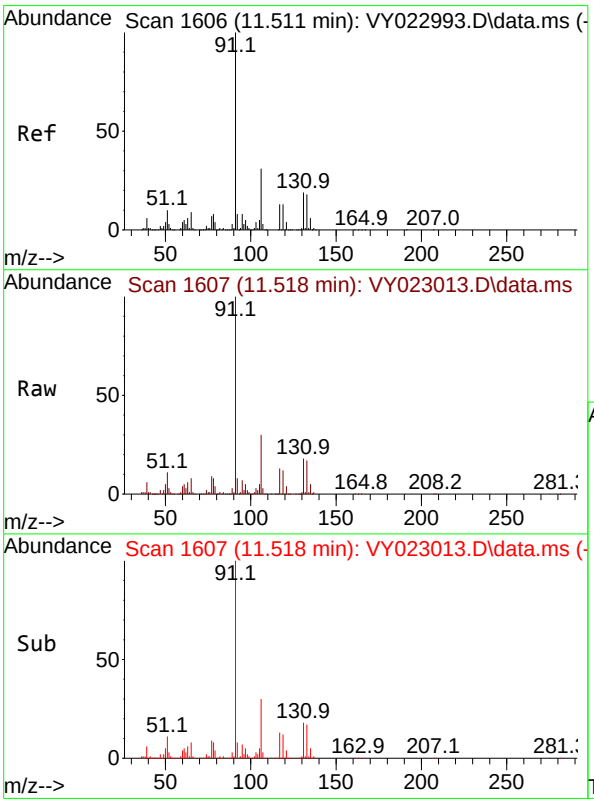
#65
Chlorobenzene
Concen: 48.192 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 630749

Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.4	38.2

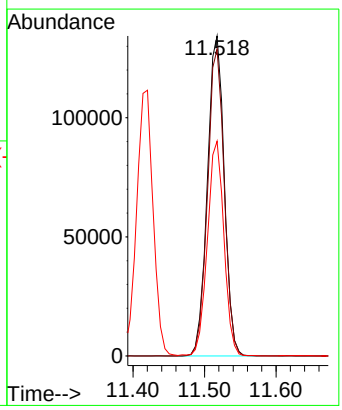


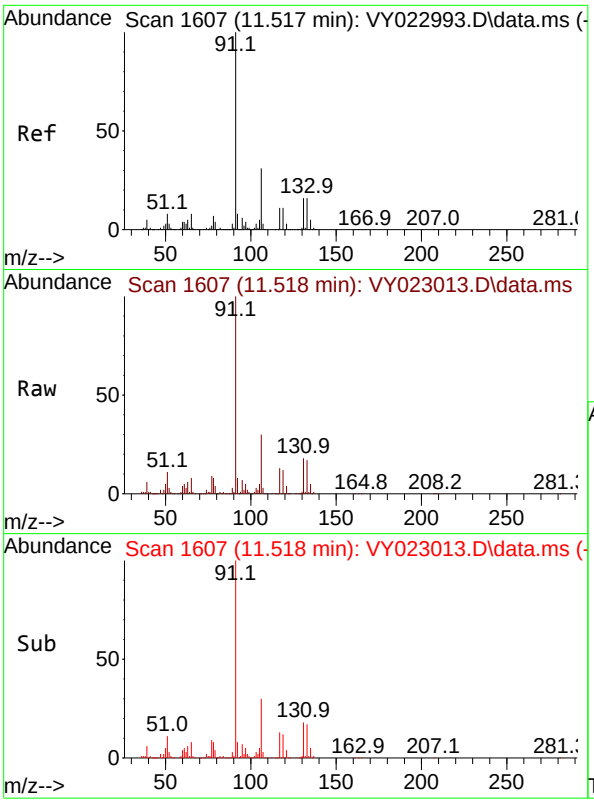


#66
1,1,1,2-Tetrachloroethane
Concen: 49.218 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:131 Resp: 219714

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.8	143.3
119	65.9	33.3	99.8



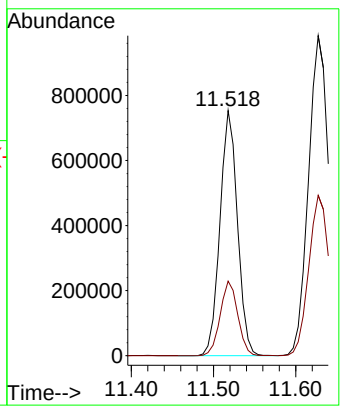


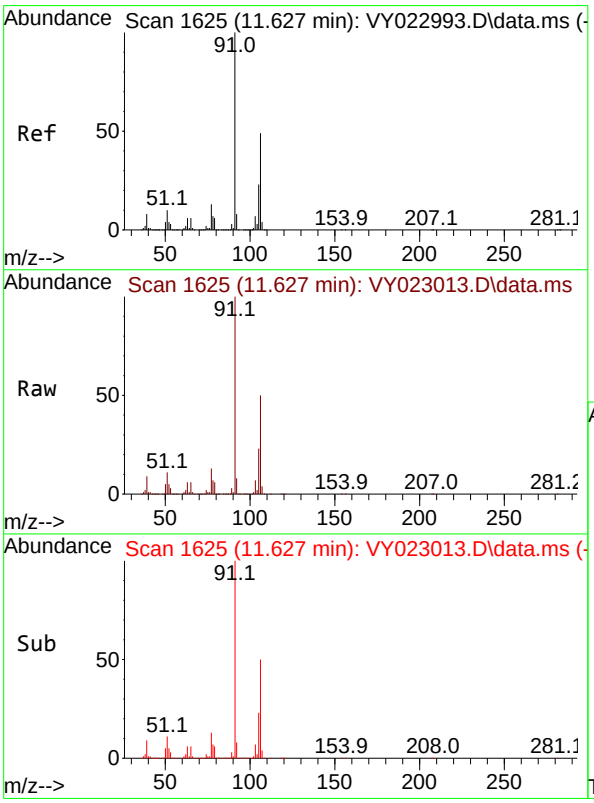
#67
Ethyl Benzene
Concen: 48.092 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1115671

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.6	37.0

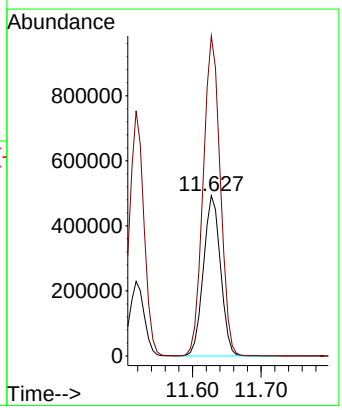


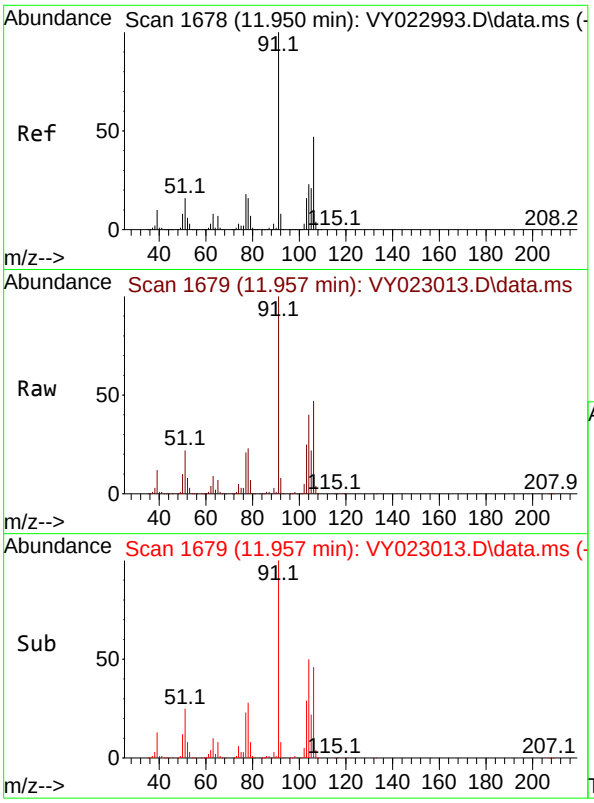


#68
m/p-Xylenes
Concen: 95.970 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:106 Resp: 853956

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8



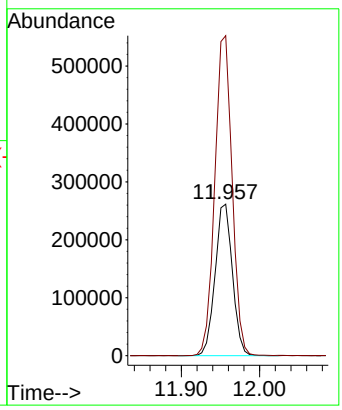


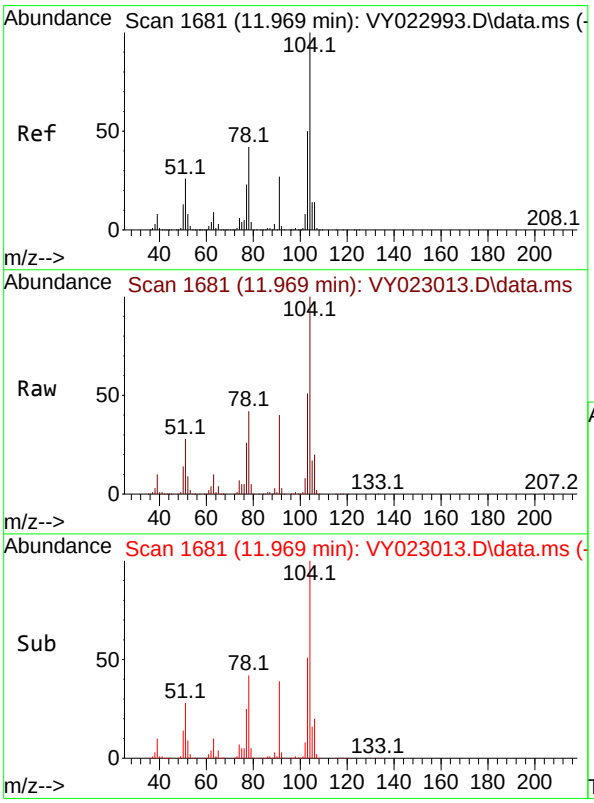
#69
o-Xylene
Concen: 48.691 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 402086

Ion	Ratio	Lower	Upper
106	100		
91	211.7	106.3	318.8

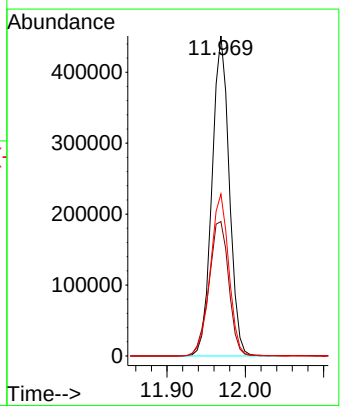


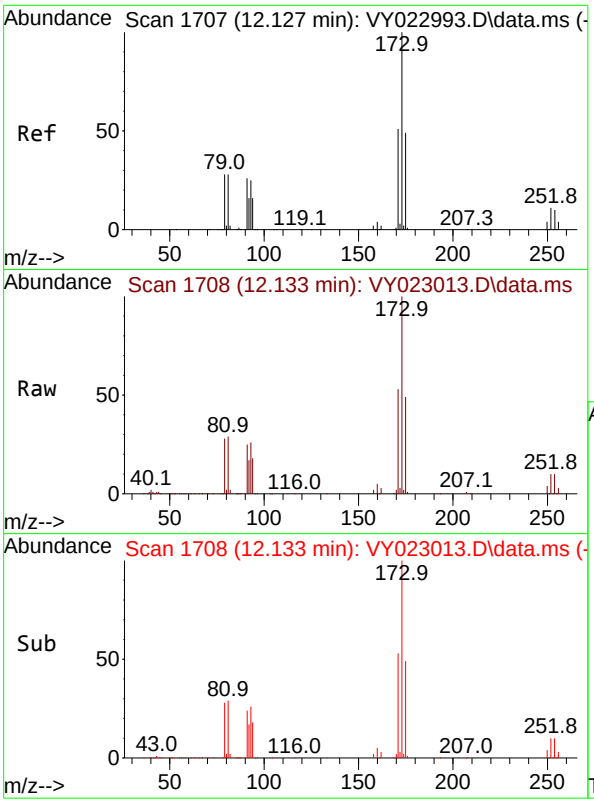


#70
Styrene
Concen: 51.144 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:104 Resp: 691812

Ion	Ratio	Lower	Upper
104	100		
78	48.3	39.0	58.6
103	54.3	43.7	65.5



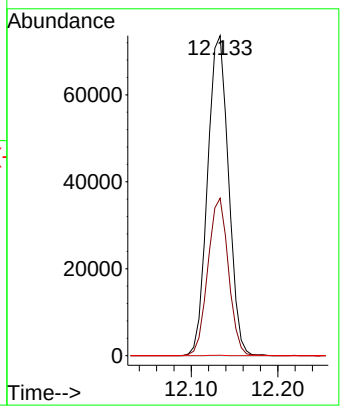


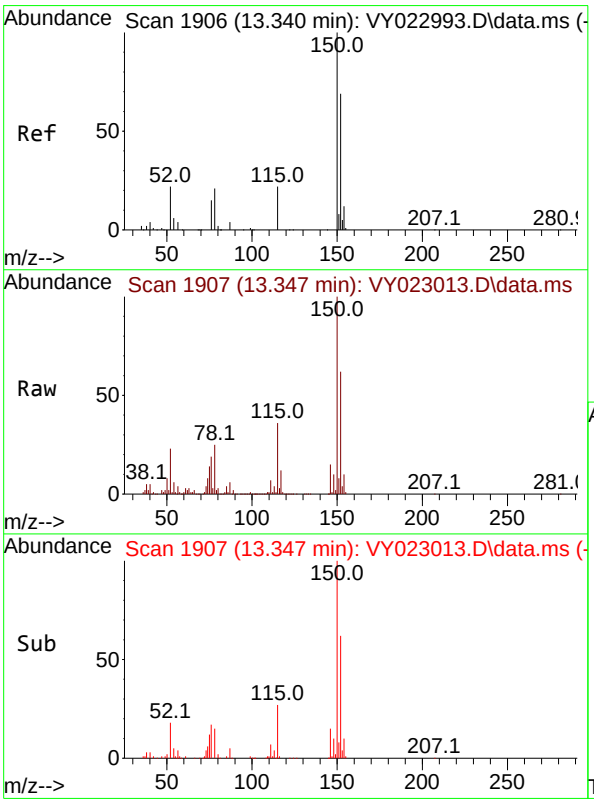
#71
Bromoform
Concen: 54.515 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 123544

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.8
254	0.1	0.2	0.2#

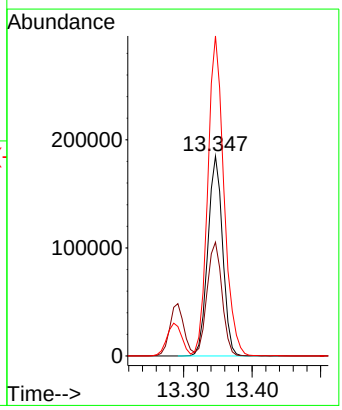


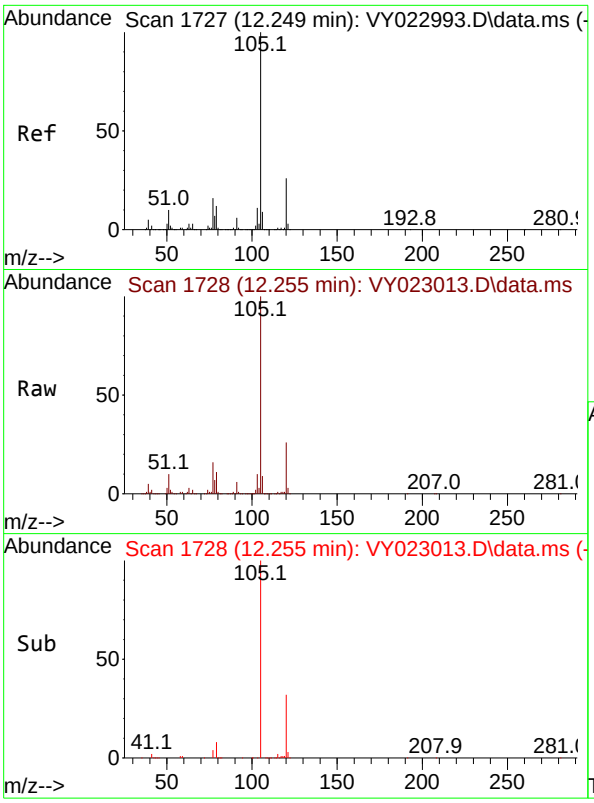


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:152 Resp: 276744

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	175.1	0.0	350.0



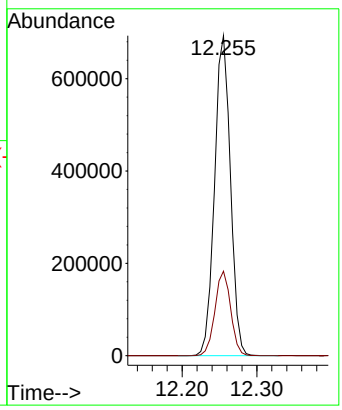


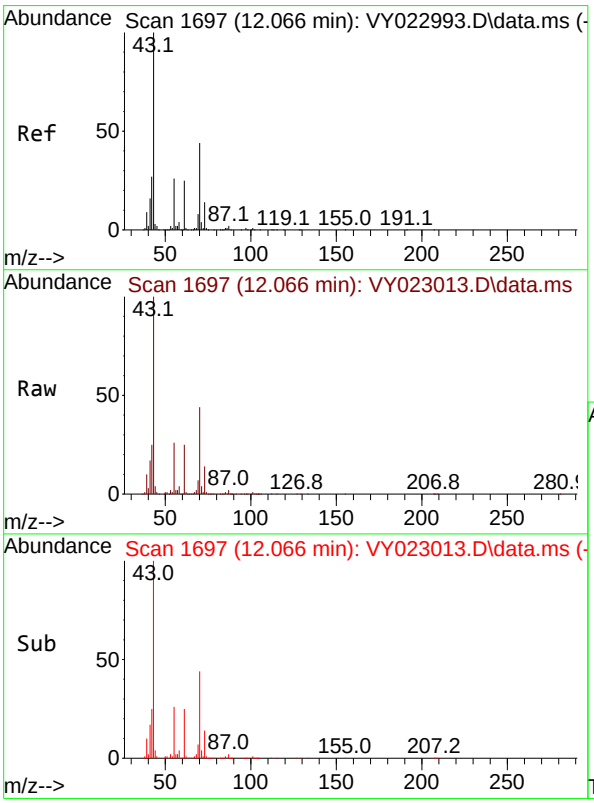
#73
Isopropylbenzene
Concen: 43.551 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1021842

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6

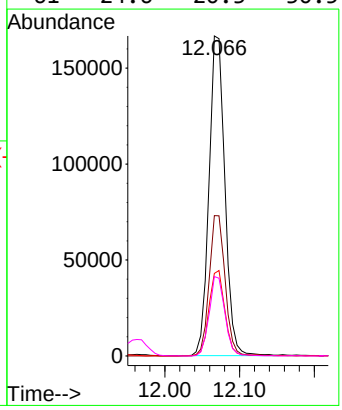


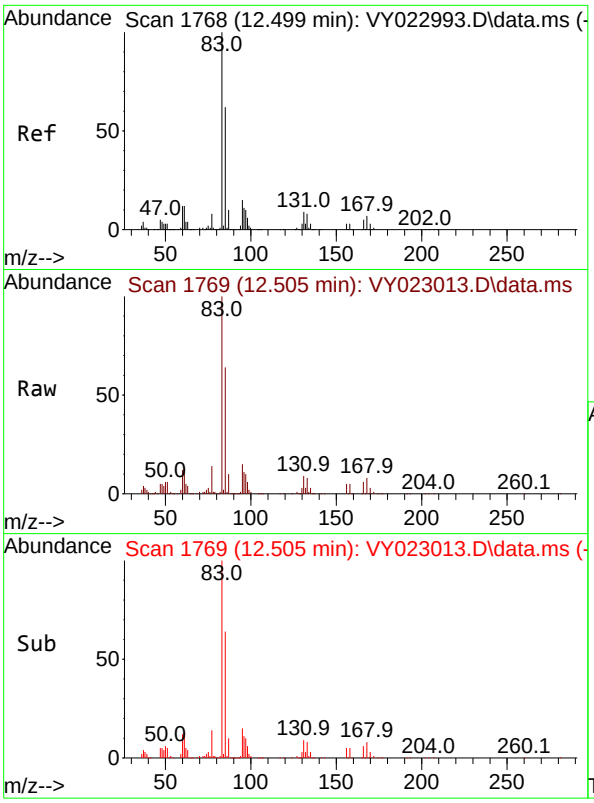


#74
N-amyl acetate
Concen: 55.697 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 43 Resp: 246379

Ion	Ratio	Lower	Upper
43	100		
70	44.1	36.2	54.2
55	27.0	20.9	31.3
61	24.6	20.3	30.5



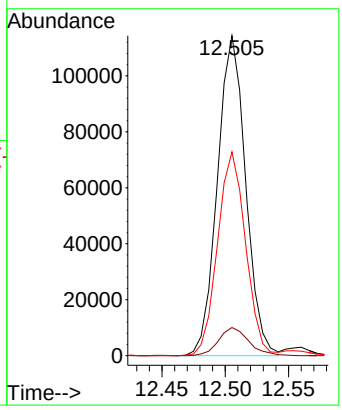


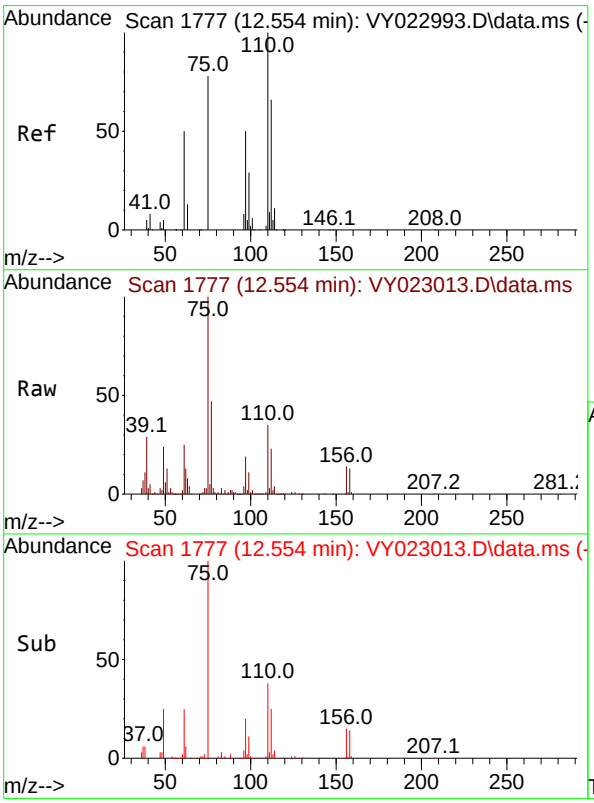
#75
1,1,2,2-Tetrachloroethane
Concen: 52.314 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 177627

Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.1	15.4
85	63.1	31.9	95.7

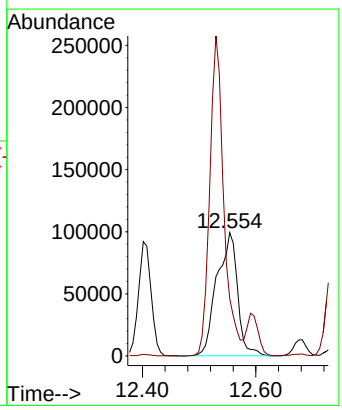


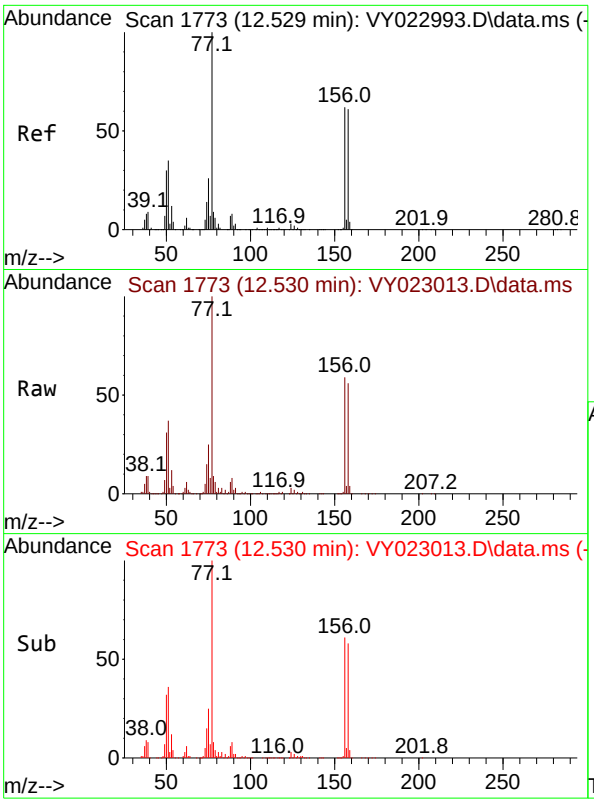


#76
1,2,3-Trichloropropane
Concen: 72.805 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 251064

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



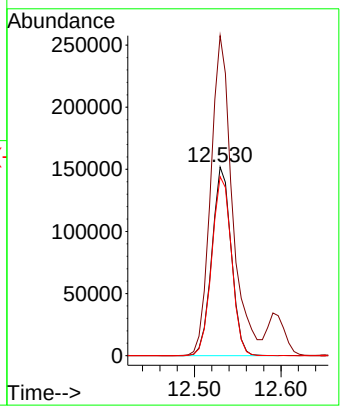


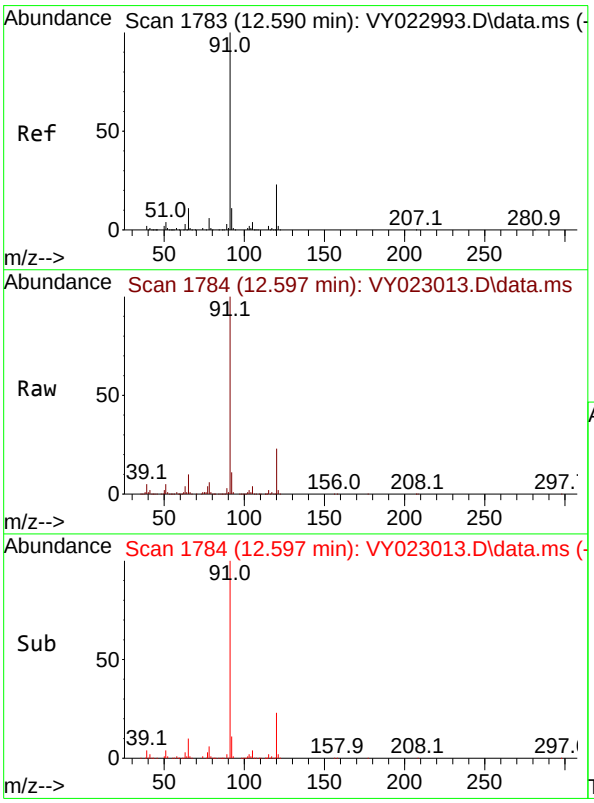
#77
Bromobenzene
Concen: 46.319 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 235710

Ion	Ratio	Lower	Upper
156	100		
77	188.0	92.0	276.1
158	96.7	48.6	145.9

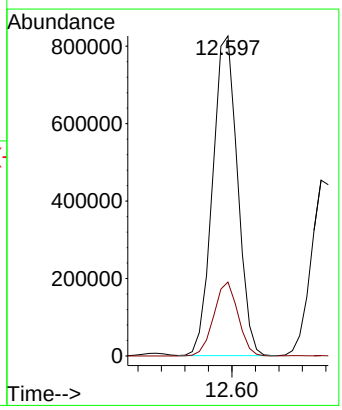


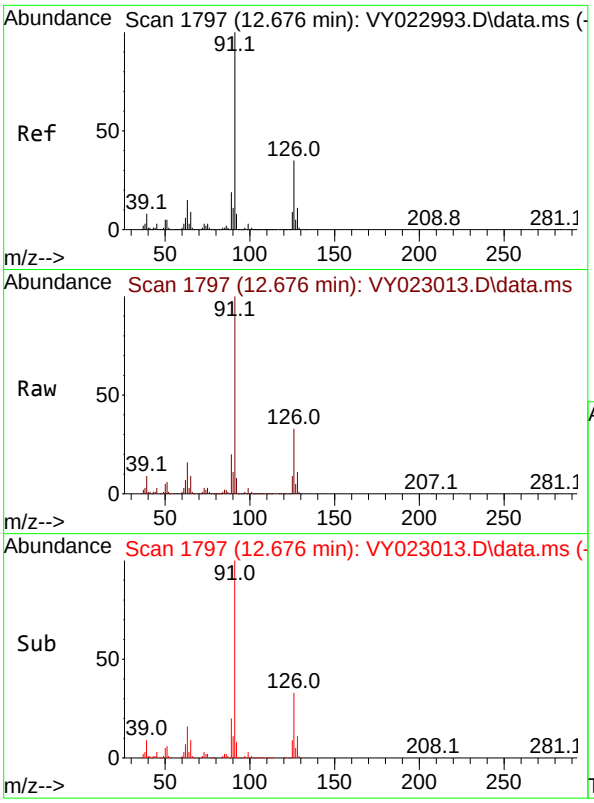


#78
n-propylbenzene
Concen: 43.562 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 1217148

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8



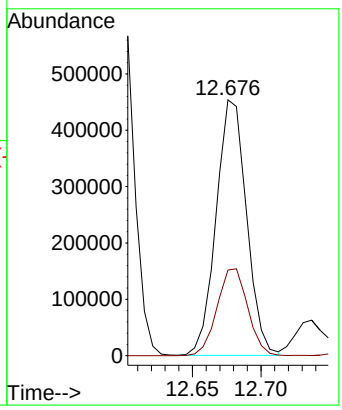


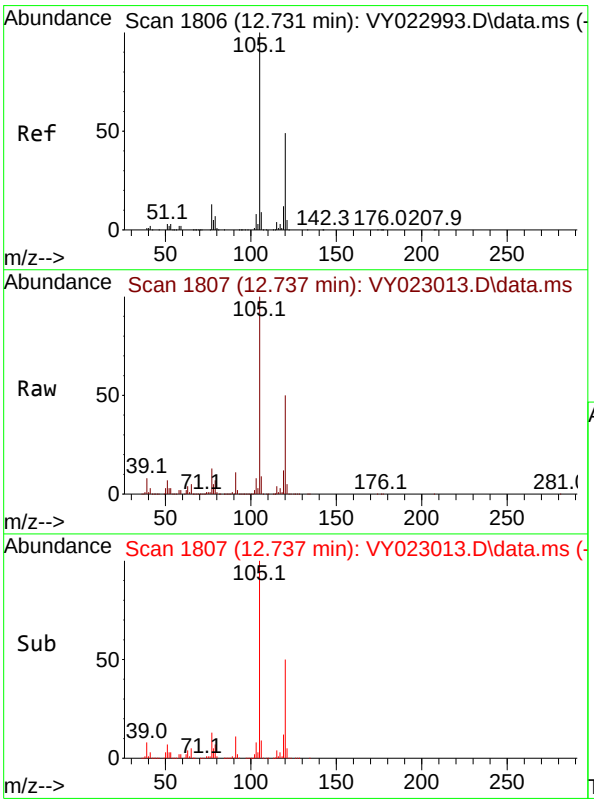
#79
2-Chlorotoluene
Concen: 44.577 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 700498

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.0	50.9

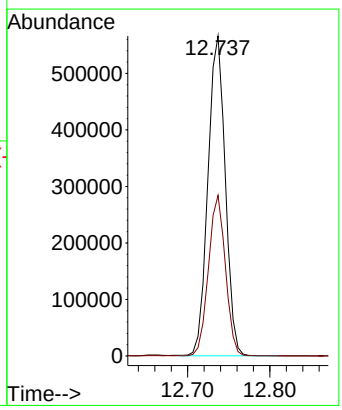


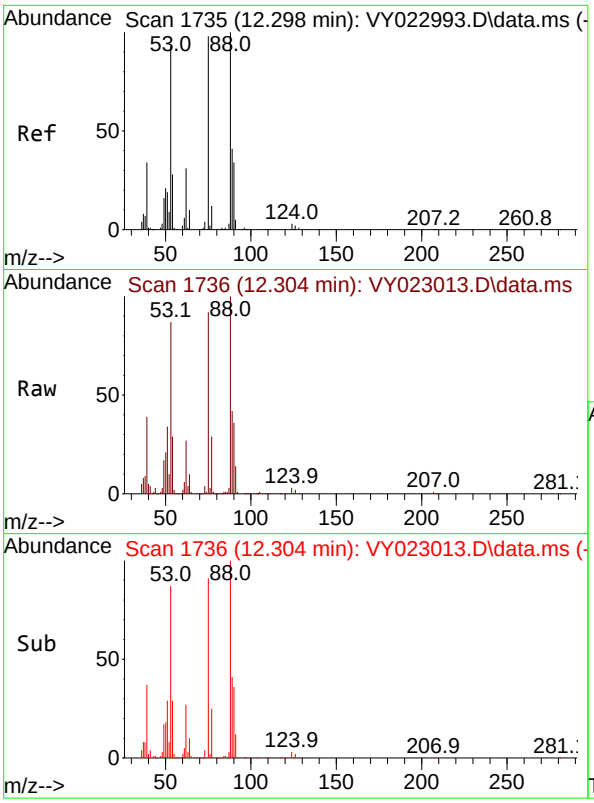


#80
1,3,5-Trimethylbenzene
Concen: 44.746 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:105 Resp: 828035

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.6	73.8



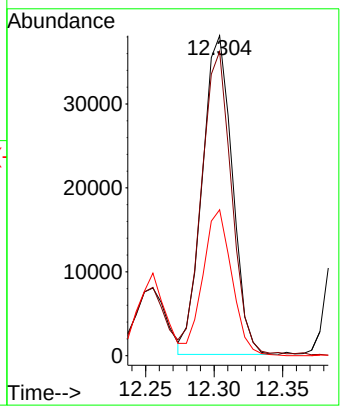


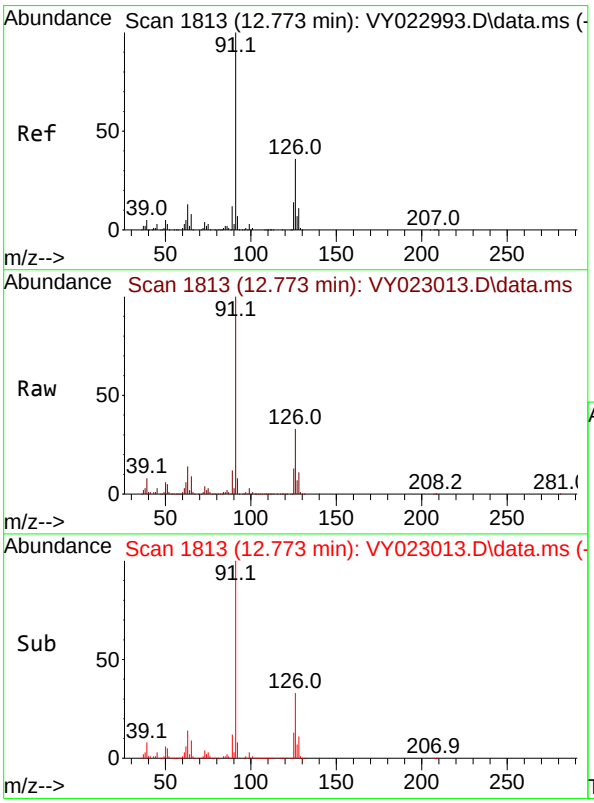
#81
trans-1,4-Dichloro-2-butene
Concen: 49.960 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 57844

Ion	Ratio	Lower	Upper
75	100		
53	95.7	76.1	114.1
89	44.8	36.1	54.1

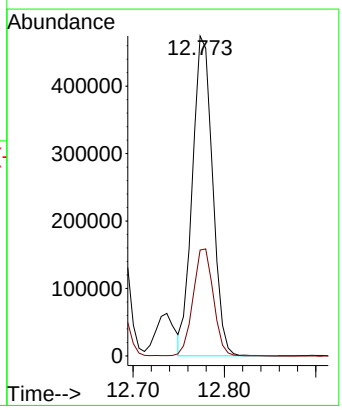


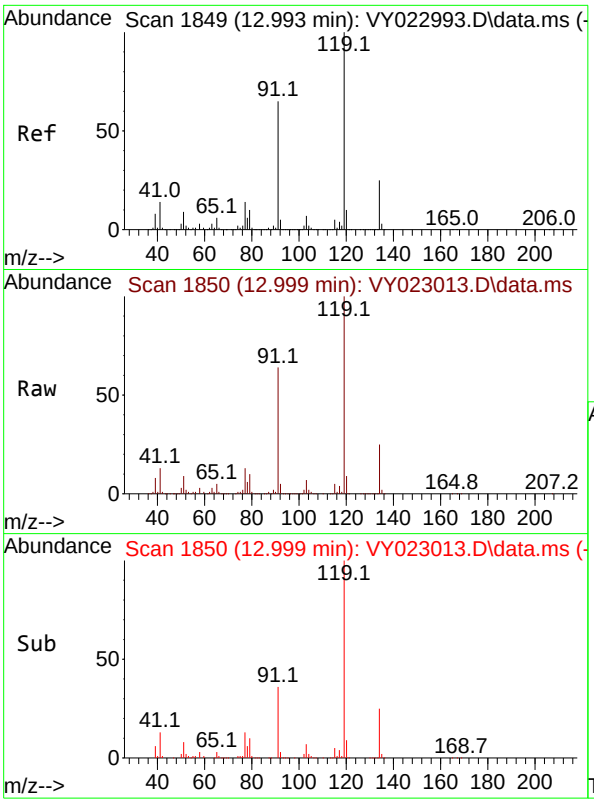


#82
4-Chlorotoluene
Concen: 45.812 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 91 Resp: 726082

Ion	Ratio	Lower	Upper
91	100		
126	33.8	17.2	51.5



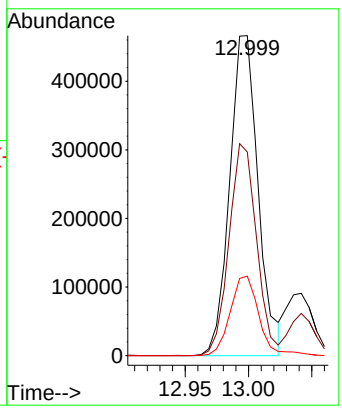


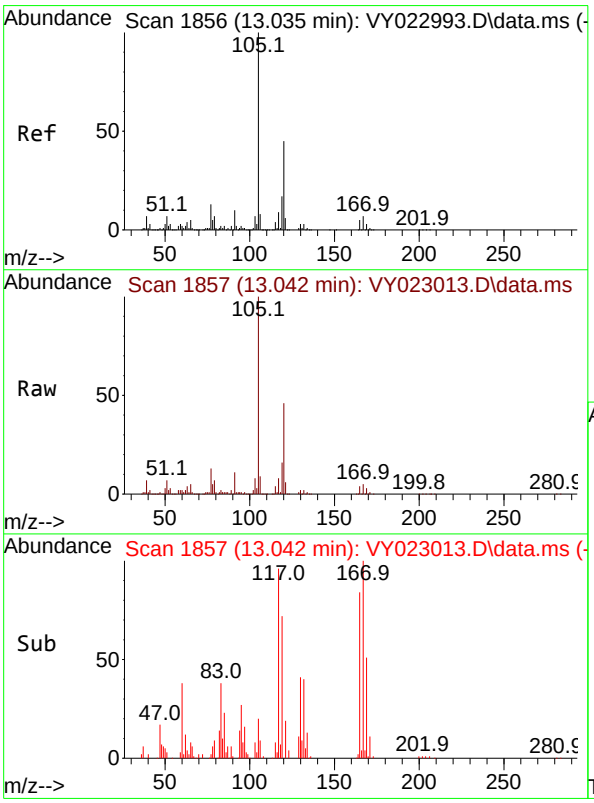
#83
tert-Butylbenzene
Concen: 43.702 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 730508

Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.0	96.2
134	25.2	12.6	37.6

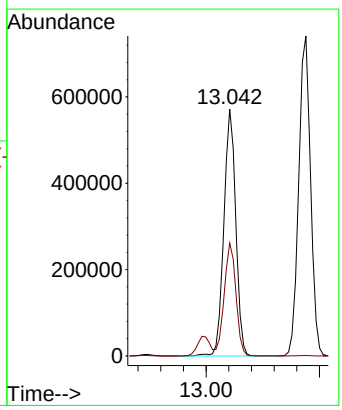


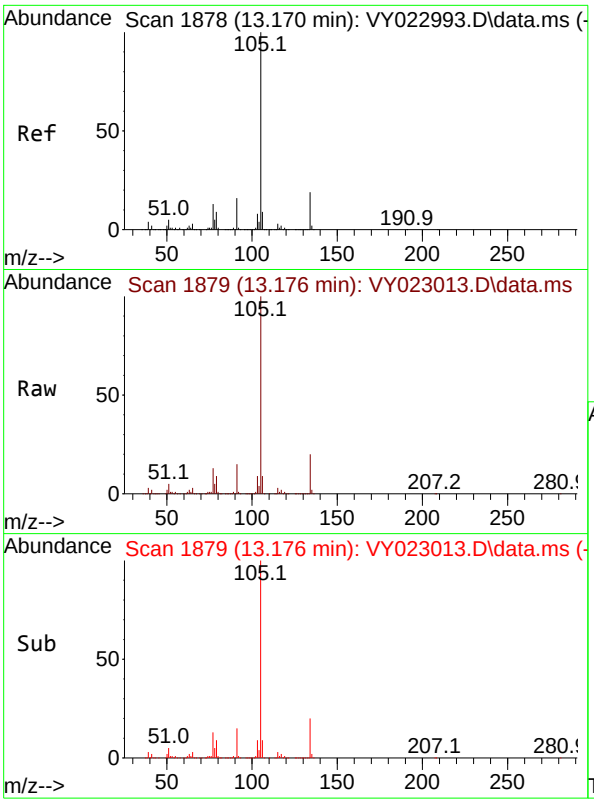


#84
1,2,4-Trimethylbenzene
Concen: 45.601 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:105 Resp: 830661

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.9	68.8



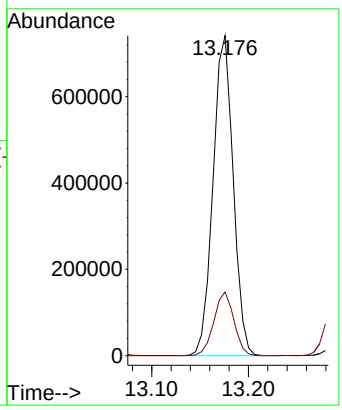


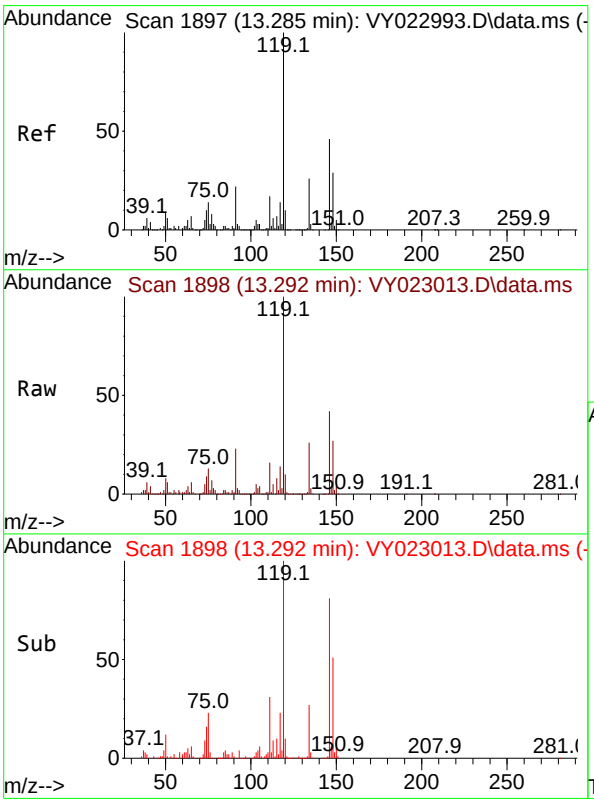
#85
sec-Butylbenzene
Concen: 42.792 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1071926

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

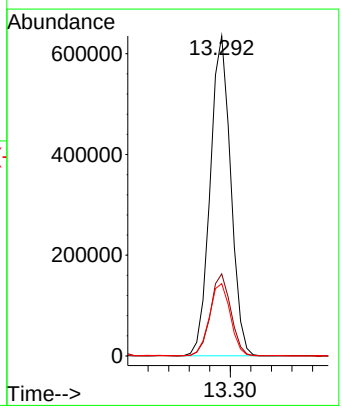


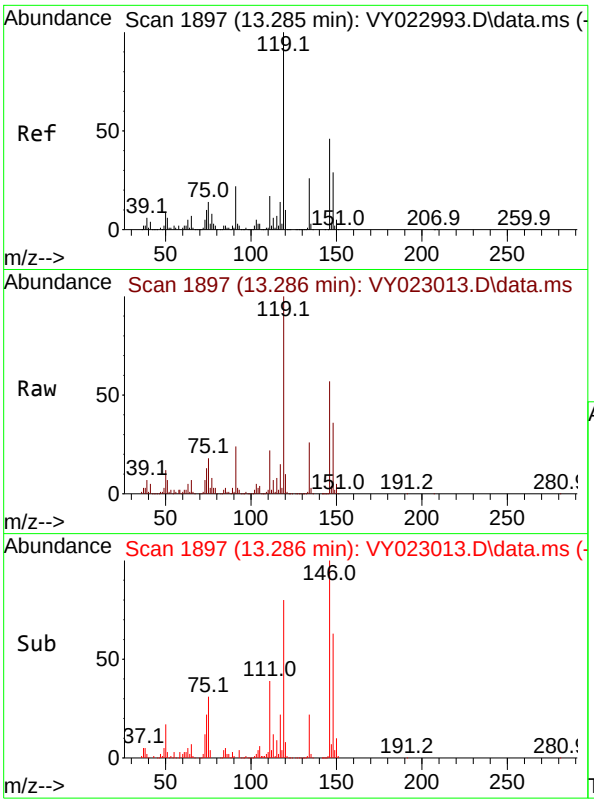


#86
p-Isopropyltoluene
Concen: 43.220 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:119 Resp: 879278

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.1	39.1
91	23.1	11.4	34.1



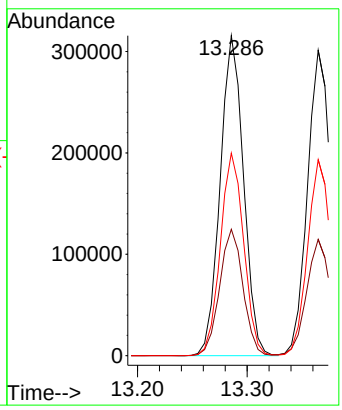


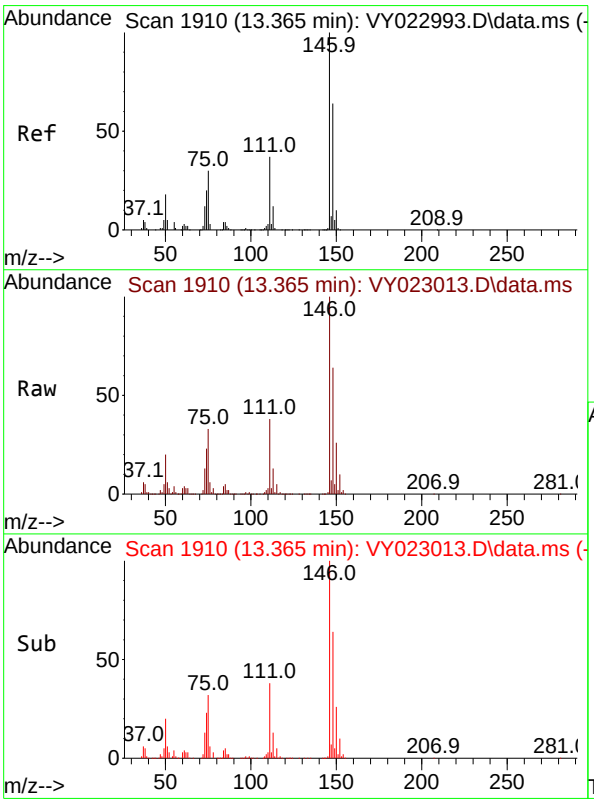
#87
1,3-Dichlorobenzene
Concen: 45.562 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 467908

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	63.2	31.6	94.8

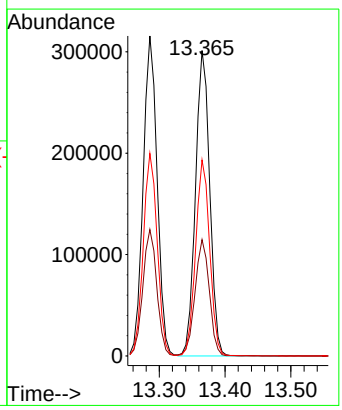


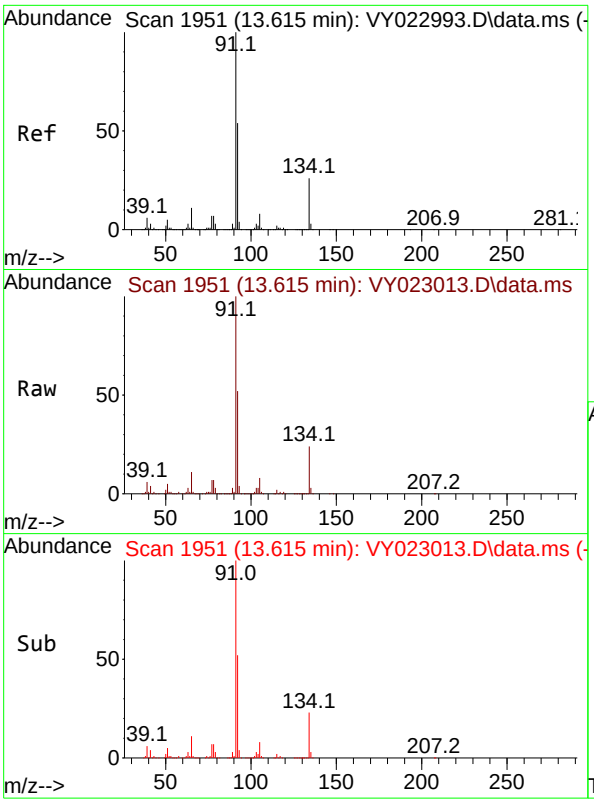


#88
1,4-Dichlorobenzene
Concen: 45.571 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:146 Resp: 452749

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.2	57.6
148	63.5	31.9	95.5



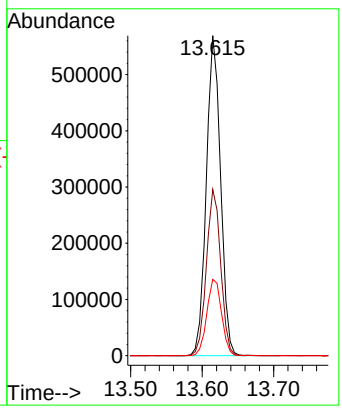


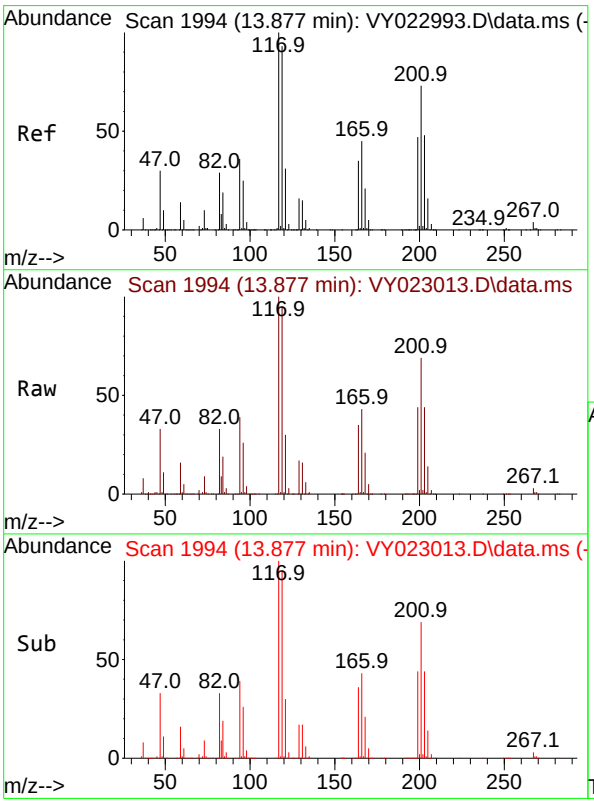
#89
n-Butylbenzene
Concen: 41.930 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 787148

Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	24.7	12.6	37.6

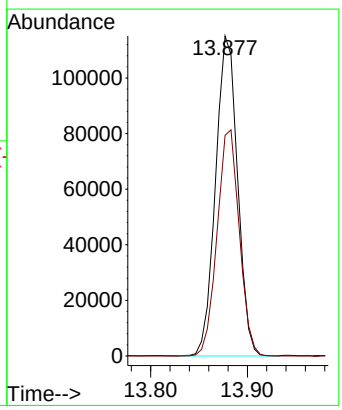


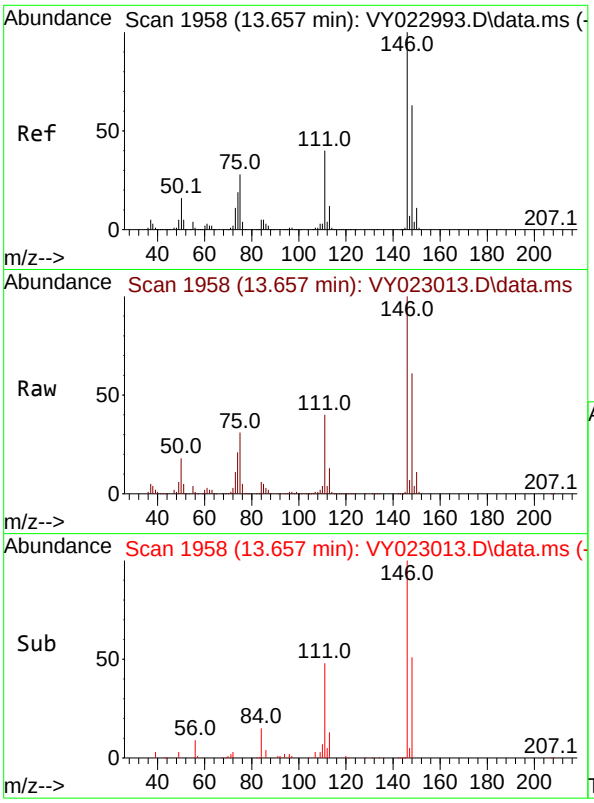


#90
Hexachloroethane
Concen: 43.138 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:117 Resp: 181698

Ion	Ratio	Lower	Upper
117	100		
201	71.4	36.1	108.5



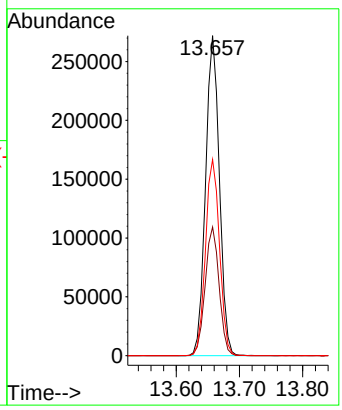


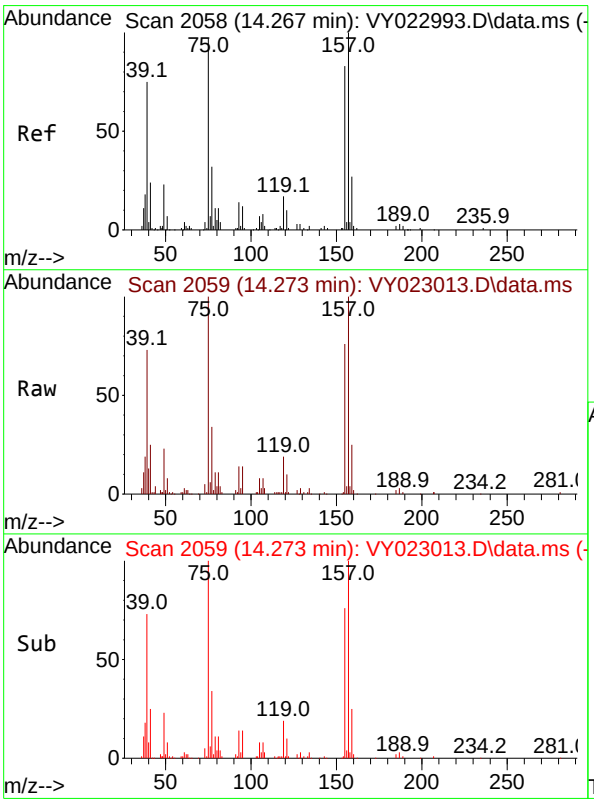
#91
1,2-Dichlorobenzene
Concen: 47.745 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 413591

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	61.0
148	62.4	32.0	96.2

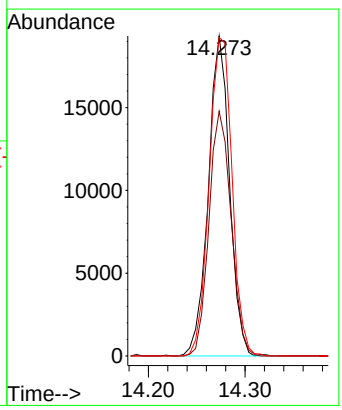


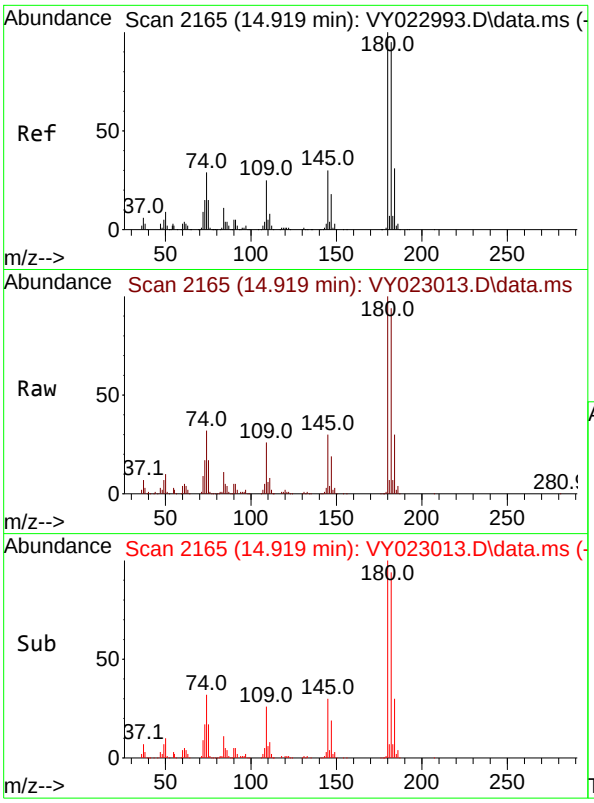


#92
1,2-Dibromo-3-Chloropropane
Concen: 58.609 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion: 75 Resp: 29548

Ion	Ratio	Lower	Upper
75	100		
155	79.3	42.8	128.3
157	106.9	54.3	162.9



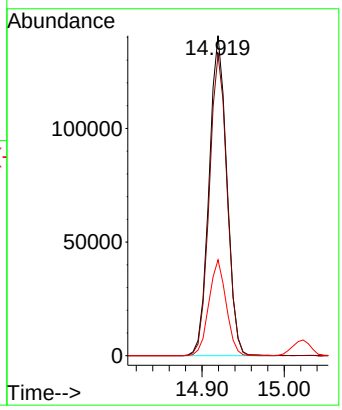


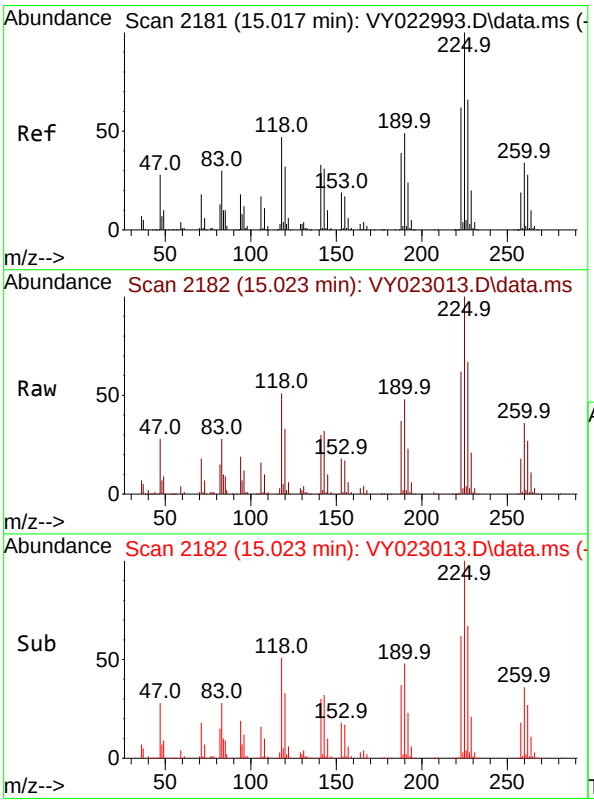
#93
1,2,4-Trichlorobenzene
Concen: 46.196 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 210940

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.5	142.5
145	29.1	14.9	44.9

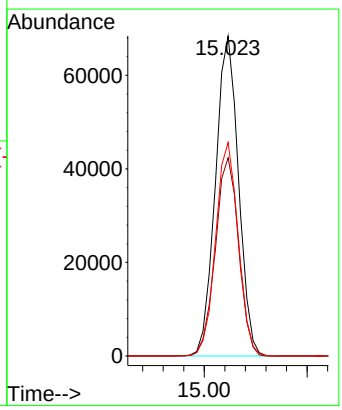


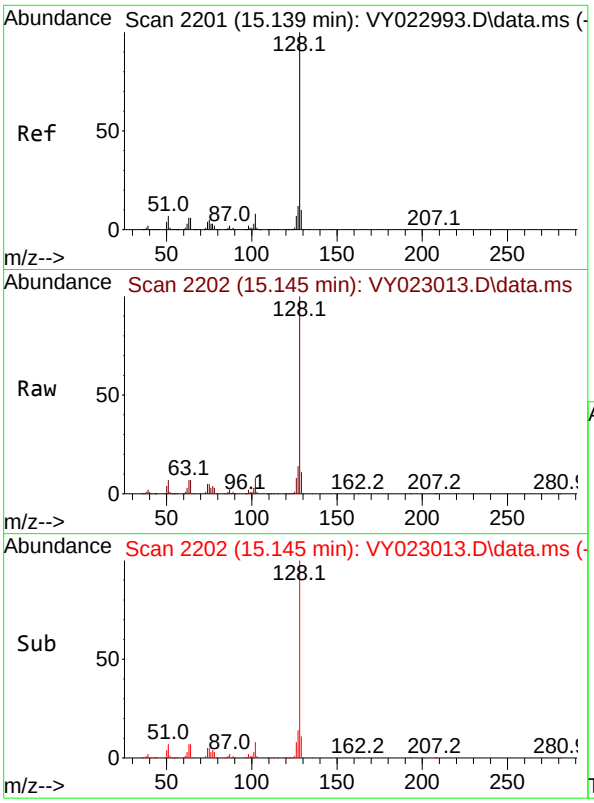


#94
Hexachlorobutadiene
Concen: 36.947 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:225 Resp: 106361

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.4	94.0
227	65.4	32.1	96.5



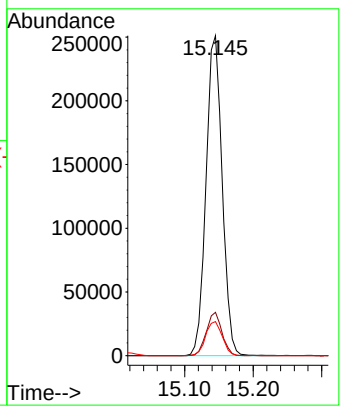


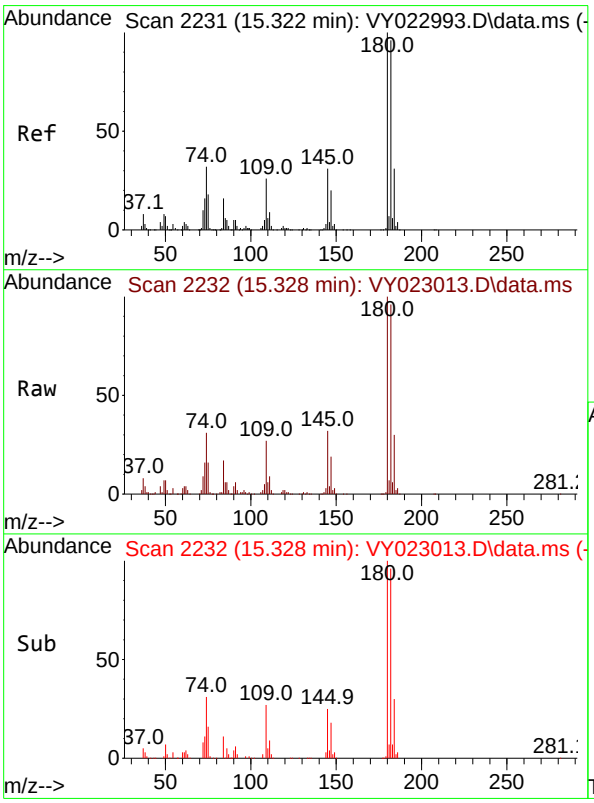
#95
Naphthalene
Concen: 56.191 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 411528

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	11.0	8.6	12.8

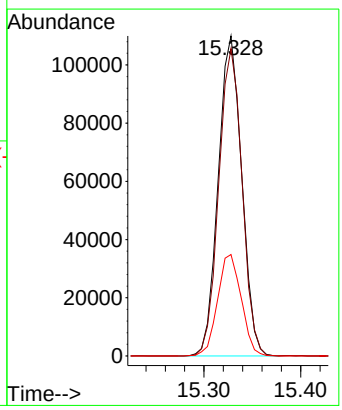




#96
1,2,3-Trichlorobenzene
Concen: 49.139 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023013.D
Acq: 18 Jul 2025 21:30

Tgt Ion:180 Resp: 185268

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	142.0
145	32.0	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	466550	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	745278	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	646276	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	315391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	231681	49.053	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.100%			
35) Dibromofluoromethane	7.634	113	218952	46.314	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 92.620%			
50) Toluene-d8	10.103	98	870592	46.437	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.880%			
62) 4-Bromofluorobenzene	12.401	95	278747	47.233	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	163705	41.324	ug/l	99
3) Chloromethane	2.068	50	352290	52.299	ug/l	100
4) Vinyl Chloride	2.202	62	405558	47.523	ug/l	100
5) Bromomethane	2.592	94	303773	49.321	ug/l	99
6) Chloroethane	2.732	64	278231	48.816	ug/l	98
7) Trichlorofluoromethane	3.049	101	472524	47.699	ug/l	100
8) Diethyl Ether	3.452	74	118699	45.781	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.811	101	229719	44.142	ug/l	99
10) Methyl Iodide	4.000	142	228734	42.309	ug/l	98
11) Tert butyl alcohol	4.891	59	78484	274.768	ug/l	99
12) 1,1-Dichloroethene	3.787	96	218813	44.137	ug/l	99
13) Acrolein	3.653	56	16336	121.709	ug/l	98
14) Allyl chloride	4.385	41	349805	46.315	ug/l	99
15) Acrylonitrile	5.055	53	264216	269.039	ug/l	99
16) Acetone	3.879	43	246194	287.564	ug/l	100
17) Carbon Disulfide	4.104	76	659160	43.871	ug/l	99
18) Methyl Acetate	4.385	43	164914	56.897	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	590328	49.645	ug/l	98
20) Methylene Chloride	4.610	84	273604	44.522	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	249633	45.236	ug/l	99
22) Diisopropyl ether	6.018	45	773708	48.287	ug/l	99
23) Vinyl Acetate	5.957	43	2112837	261.701	ug/l	99
24) 1,1-Dichloroethane	5.915	63	462627	45.968	ug/l	99
25) 2-Butanone	6.896	43	351847	286.473	ug/l	100
26) 2,2-Dichloropropane	6.884	77	410339	46.522	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	290970	45.750	ug/l	98
28) Bromochloromethane	7.244	49	192517	49.320	ug/l	98
29) Tetrahydrofuran	7.268	42	214487	275.830	ug/l	99
30) Chloroform	7.421	83	465833	45.883	ug/l	100
31) Cyclohexane	7.701	56	407632	43.348	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	415153	45.068	ug/l	99
36) 1,1-Dichloropropene	7.835	75	342303	45.967	ug/l	100
37) Ethyl Acetate	6.982	43	145321	52.544	ug/l	99
38) Carbon Tetrachloride	7.817	117	367135	45.380	ug/l	98
39) Methylcyclohexane	9.109	83	438429	45.487	ug/l	98
40) Benzene	8.079	78	1042640	46.502	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	88958	59.045	ug/l		92
42) 1,2-Dichloroethane	8.158	62	279220	50.055	ug/l		100
43) Isopropyl Acetate	8.195	43	300111	54.629	ug/l	#	87
44) Trichloroethene	8.865	130	267268	46.410	ug/l		100
45) 1,2-Dichloropropane	9.140	63	246776	47.131	ug/l		100
46) Dibromomethane	9.231	93	134753	49.790	ug/l		99
47) Bromodichloromethane	9.420	83	358051	47.861	ug/l		100
48) Methyl methacrylate	9.219	41	147249	55.518	ug/l		100
49) 1,4-Dioxane	9.237	88	32221	1129.451	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	804002	288.338	ug/l		100
52) Toluene	10.170	92	659183	47.287	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	328119	51.095	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	375614	48.527	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	177418	49.876	ug/l		99
56) Ethyl methacrylate	10.438	69	241078	54.291	ug/l		99
57) 1,3-Dichloropropane	10.719	76	310300	50.497	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	598615	275.393	ug/l		99
59) 2-Hexanone	10.761	43	547928	298.947	ug/l		99
60) Dibromochloromethane	10.908	129	232680	49.953	ug/l		99
61) 1,2-Dibromoethane	11.011	107	166085	51.415	ug/l		100
64) Tetrachloroethene	10.646	164	310183	46.956	ug/l		97
65) Chlorobenzene	11.438	112	706161	46.305	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	235455	45.267	ug/l		100
67) Ethyl Benzene	11.517	91	1258041	46.541	ug/l		99
68) m/p-Xylenes	11.627	106	966289	93.198	ug/l		100
69) o-Xylene	11.956	106	454809	47.267	ug/l		98
70) Styrene	11.969	104	753693	47.820	ug/l		100
71) Bromoform	12.133	173	134080	50.776	ug/l		98
73) Isopropylbenzene	12.255	105	1183789	44.271	ug/l		100
74) N-amyl acetate	12.072	43	269180	53.395	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	184767	47.749	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	271958	69.200	ug/l	#	100
77) Bromobenzene	12.529	156	262574	45.276	ug/l		98
78) n-propylbenzene	12.597	91	1455137	45.698	ug/l		100
79) 2-Chlorotoluene	12.676	91	803482	44.865	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	961475	45.590	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	65951	49.983	ug/l		99
82) 4-Chlorotoluene	12.773	91	837576	46.371	ug/l		100
83) tert-Butylbenzene	12.993	119	863185	45.312	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	962658	46.371	ug/l		100
85) sec-Butylbenzene	13.176	105	1304191	45.684	ug/l		100
86) p-Isopropyltoluene	13.291	119	1073149	46.286	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	532686	45.514	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	513938	45.391	ug/l		100
89) n-Butylbenzene	13.615	91	1009588	47.189	ug/l		100
90) Hexachloroethane	13.877	117	213851	44.550	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	459820	46.577	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	31393	54.638	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	258596	49.693	ug/l		99
94) Hexachlorobutadiene	15.023	225	149247	45.491	ug/l		100
95) Naphthalene	15.145	128	470535	56.375	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	220477	51.312	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

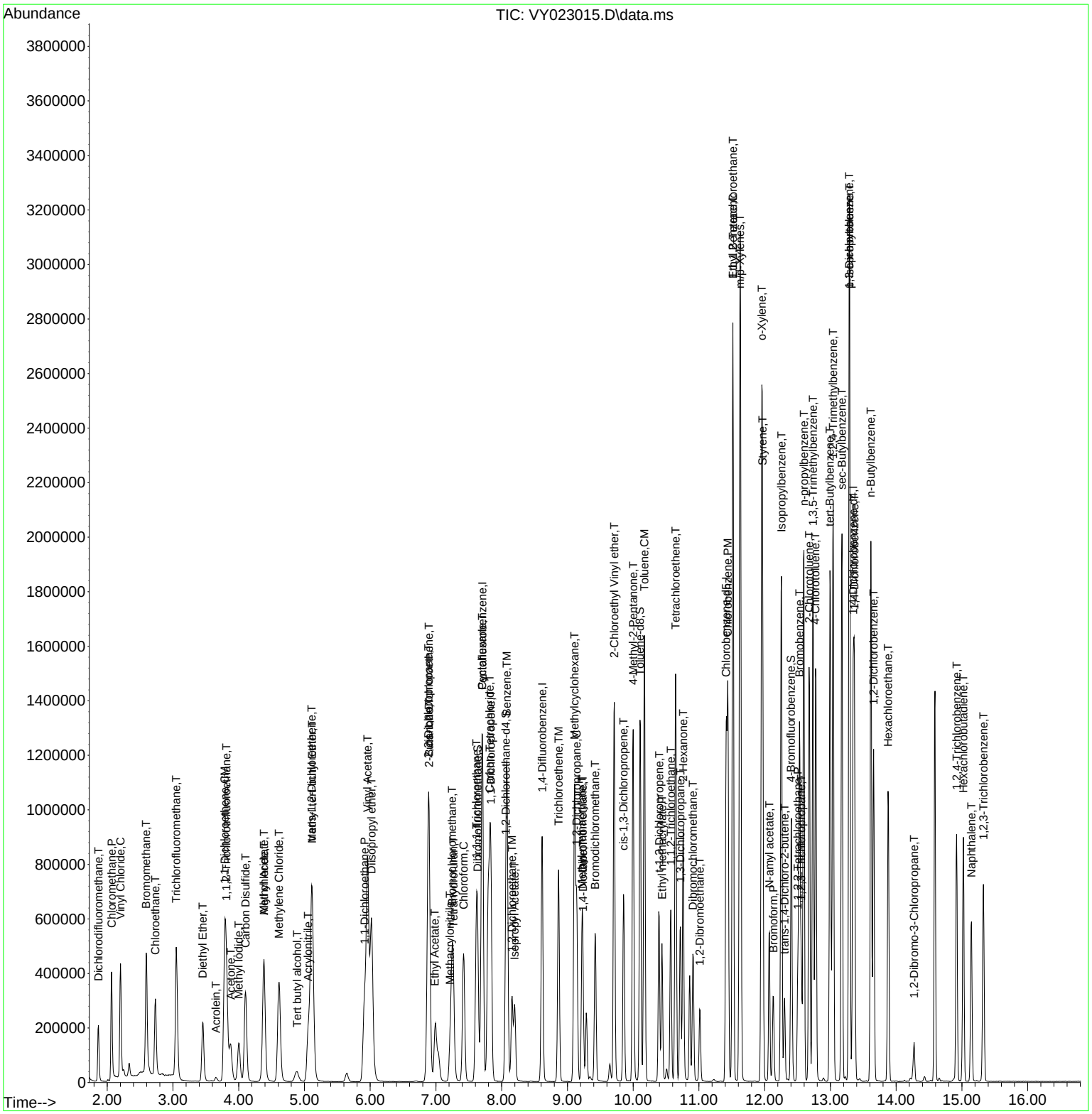
(#) = qualifier out of range (m) = manual integration (+) = signals summed

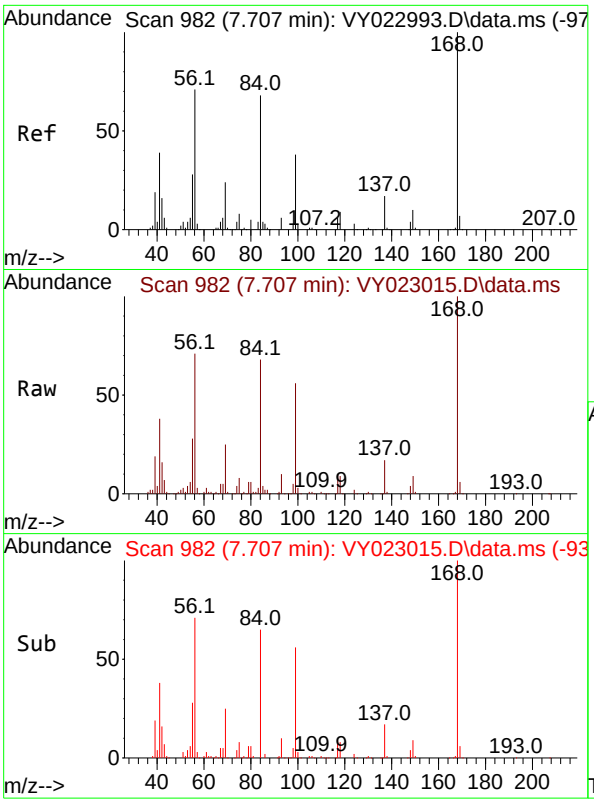
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023015.D
Acq On : 21 Jul 2025 10:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: Jul 22 04:45:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



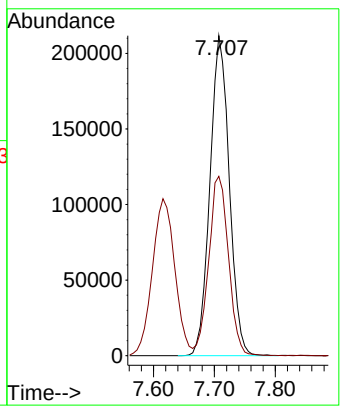


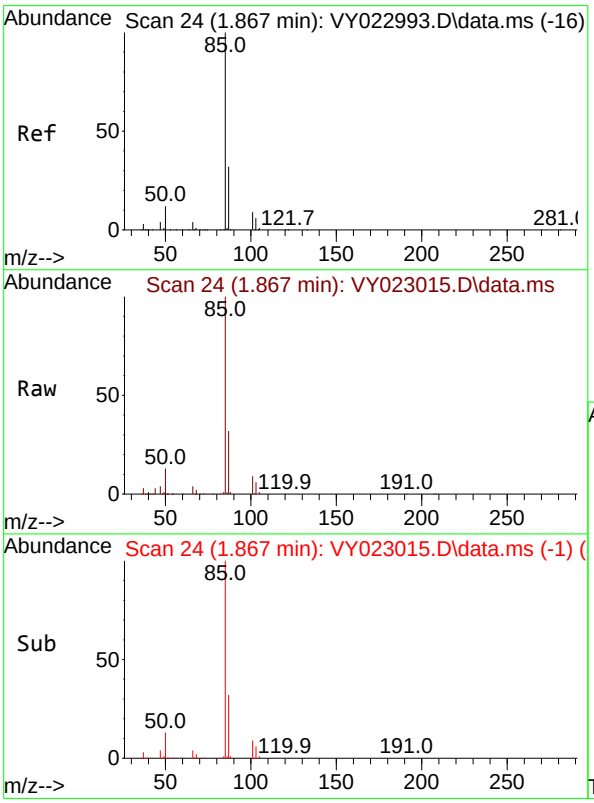
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 466550

Ion	Ratio	Lower	Upper
168	100		
99	56.0	44.4	66.6

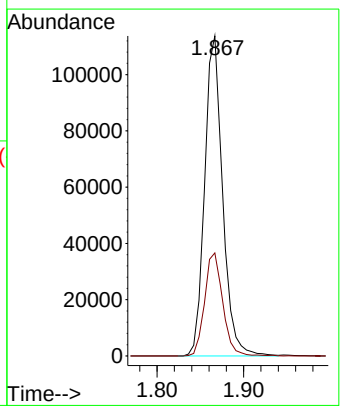


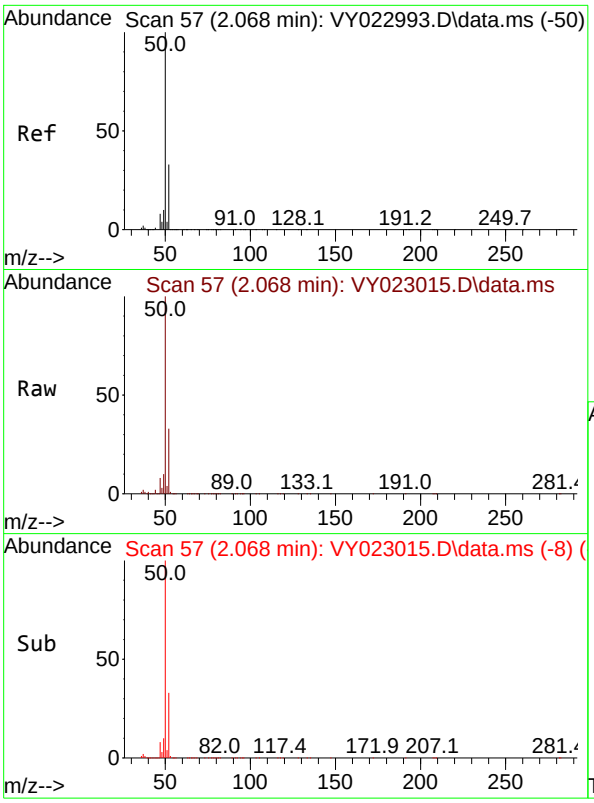


#2
Dichlorodifluoromethane
Concen: 41.324 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 85 Resp: 163705

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.0	47.9



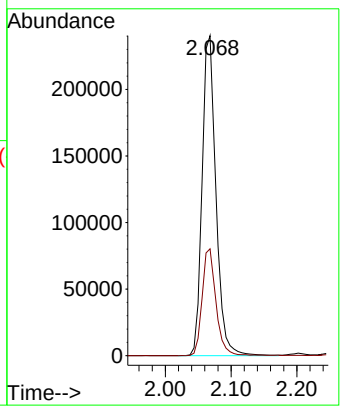


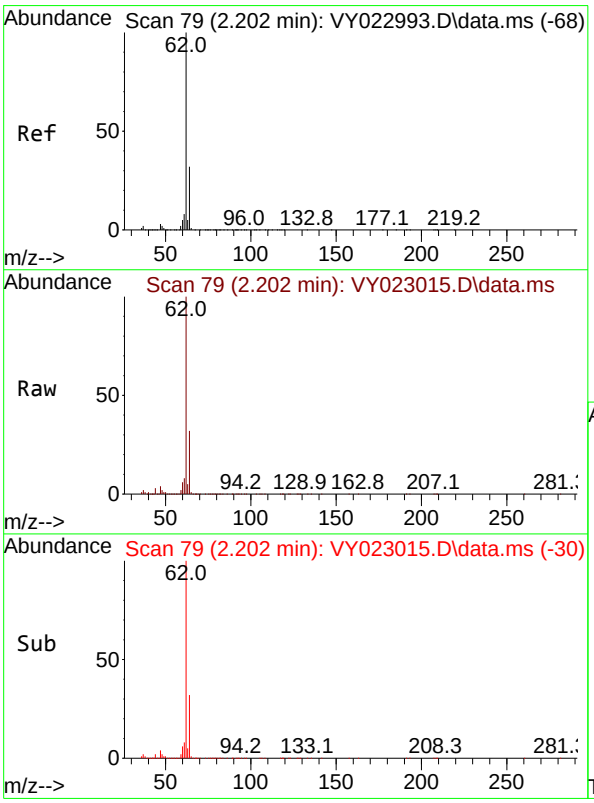
#3
Chloromethane
Concen: 52.299 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 352290

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.6	39.8

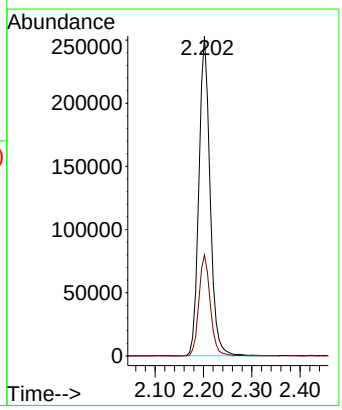


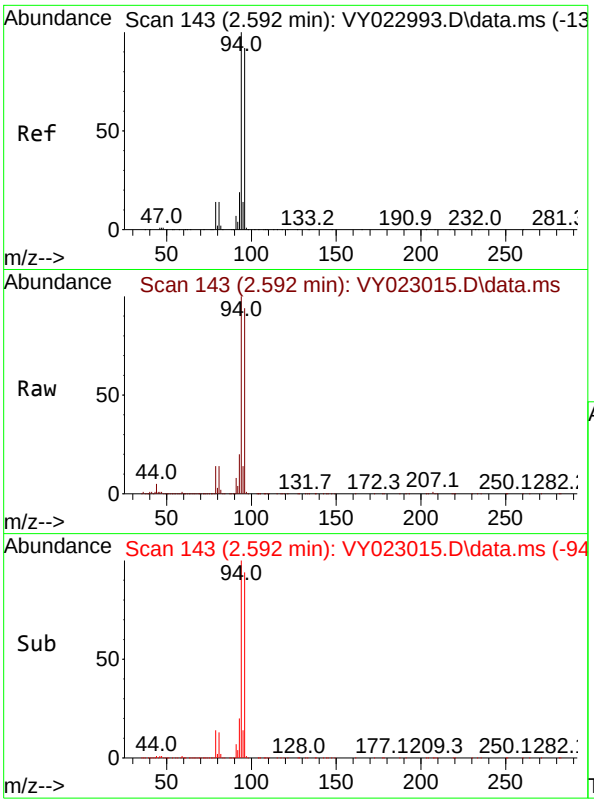


#4
Vinyl Chloride
Concen: 47.523 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 405558

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.2	37.8



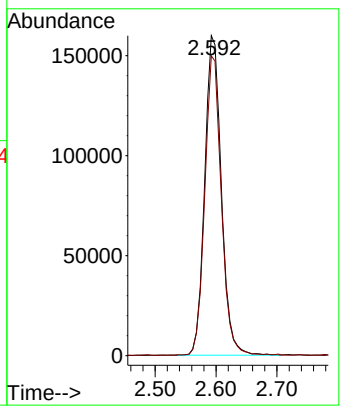


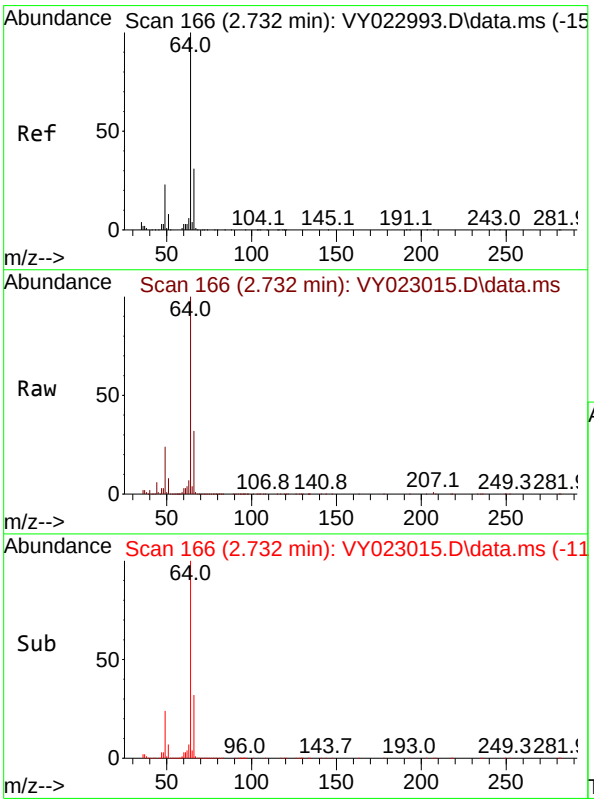
#5
Bromomethane
Concen: 49.321 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 303773

Ion	Ratio	Lower	Upper
94	100		
96	93.6	73.9	110.9

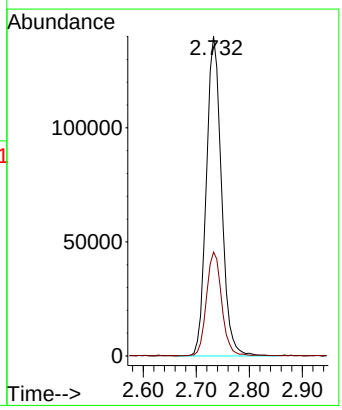


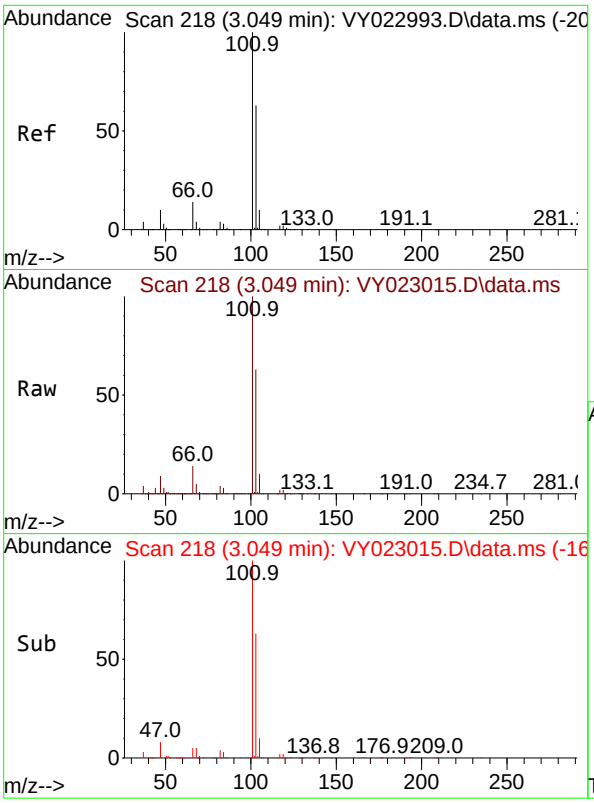


#6
Chloroethane
Concen: 48.816 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 64 Resp: 278231

Ion	Ratio	Lower	Upper
64	100		
66	32.3	24.9	37.3



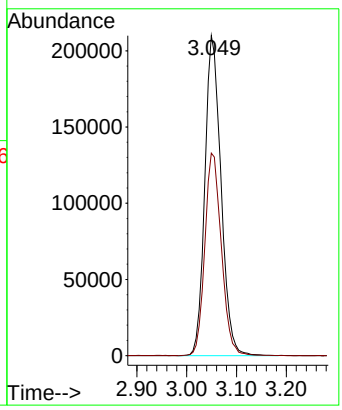


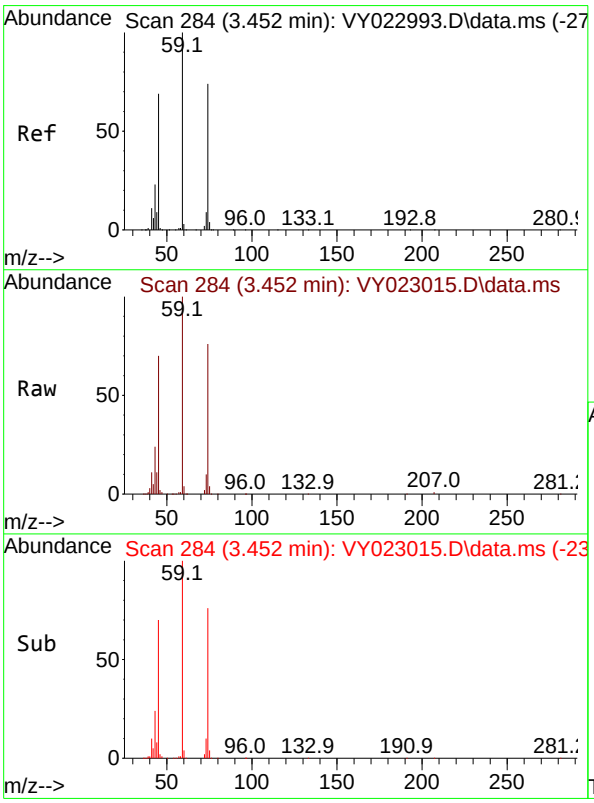
#7
Trichlorofluoromethane
Concen: 47.699 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 472524

Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.7	76.1

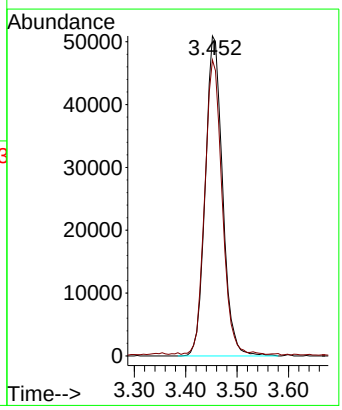


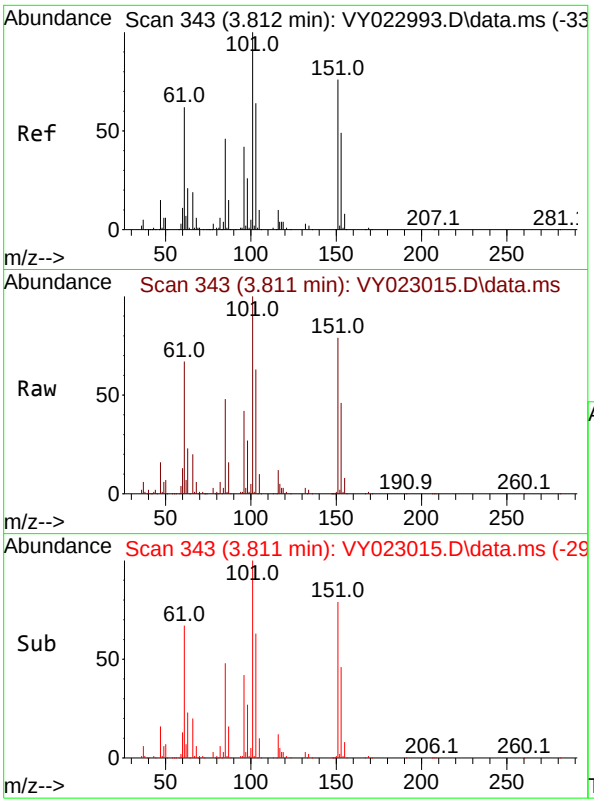


#8
Diethyl Ether
Concen: 45.781 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 74 Resp: 118699

Ion	Ratio	Lower	Upper
74	100		
45	92.5	45.1	135.2



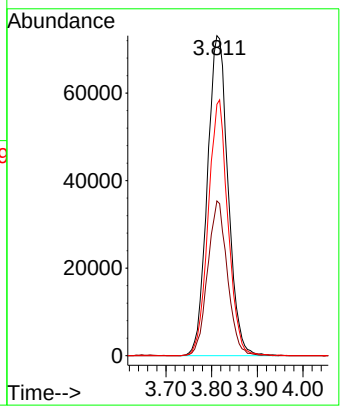


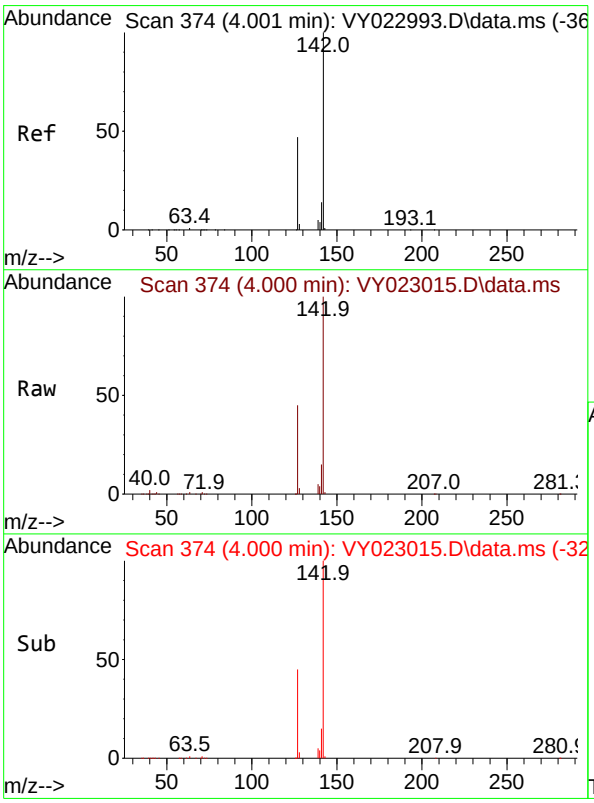
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.142 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 229719

Ion	Ratio	Lower	Upper
101	100		
85	46.2	37.2	55.8
151	76.3	59.7	89.5

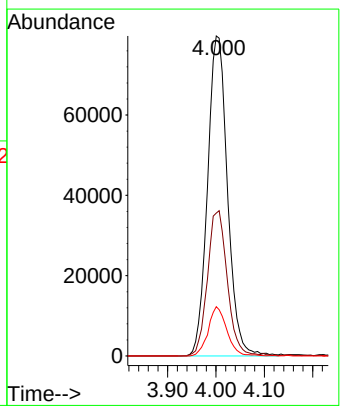


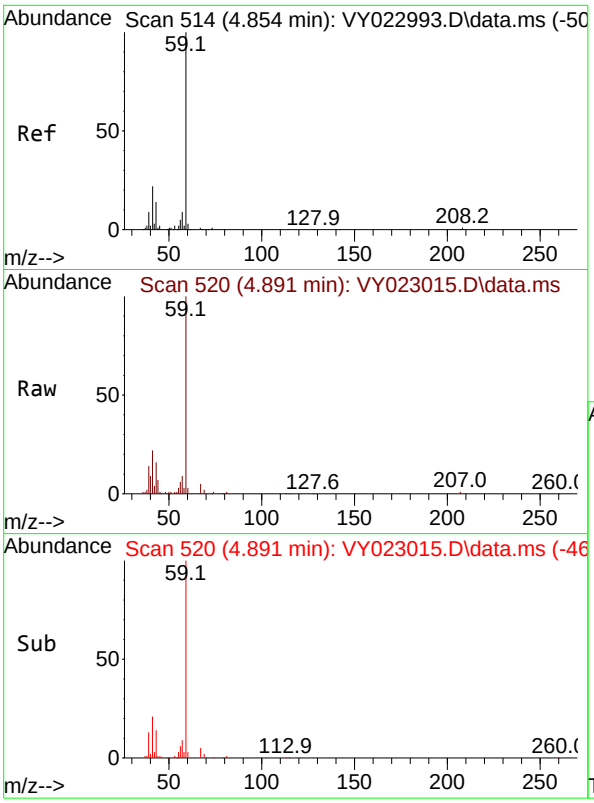


#10
Methyl Iodide
Concen: 42.309 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:142 Resp: 228734

Ion	Ratio	Lower	Upper
142	100		
127	45.0	37.0	55.6
141	14.4	11.4	17.2



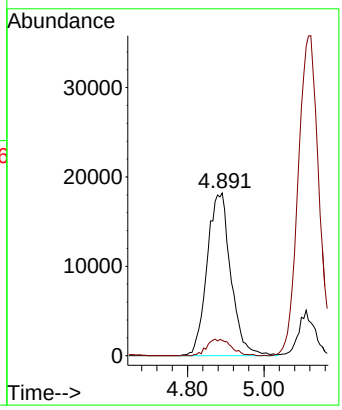


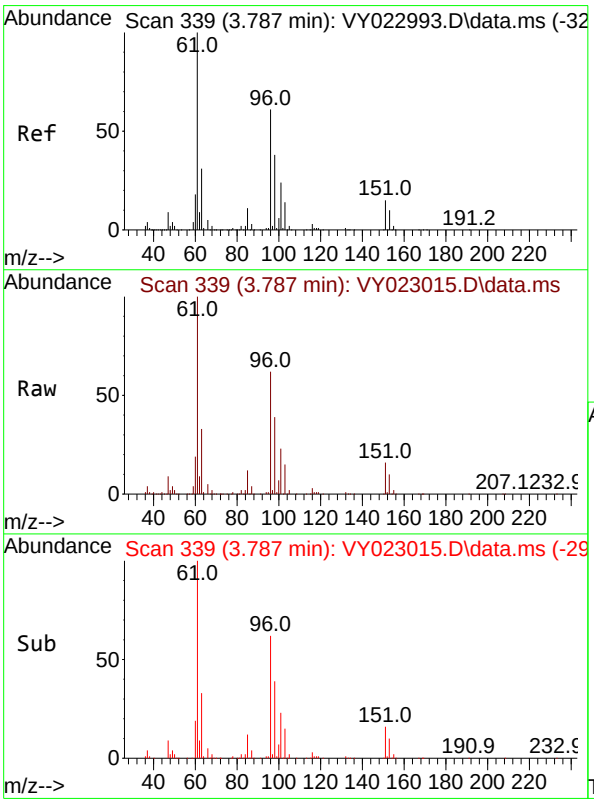
#11
Tert butyl alcohol
Concen: 274.768 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.037 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 78484

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.2

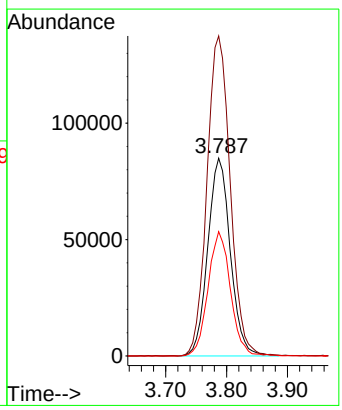


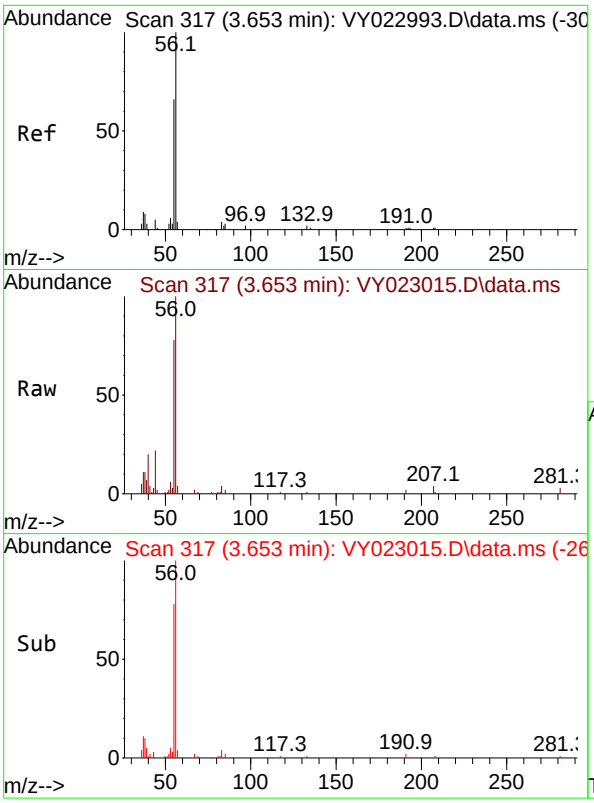


#12
1,1-Dichloroethene
Concen: 44.137 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 96 Resp: 218813

Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.4	195.6
98	62.9	49.6	74.4



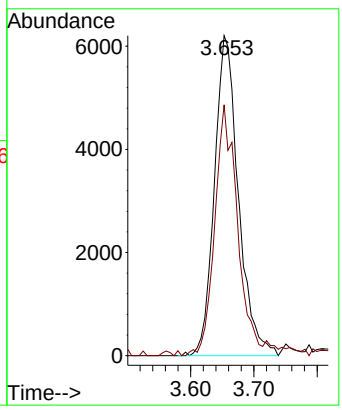


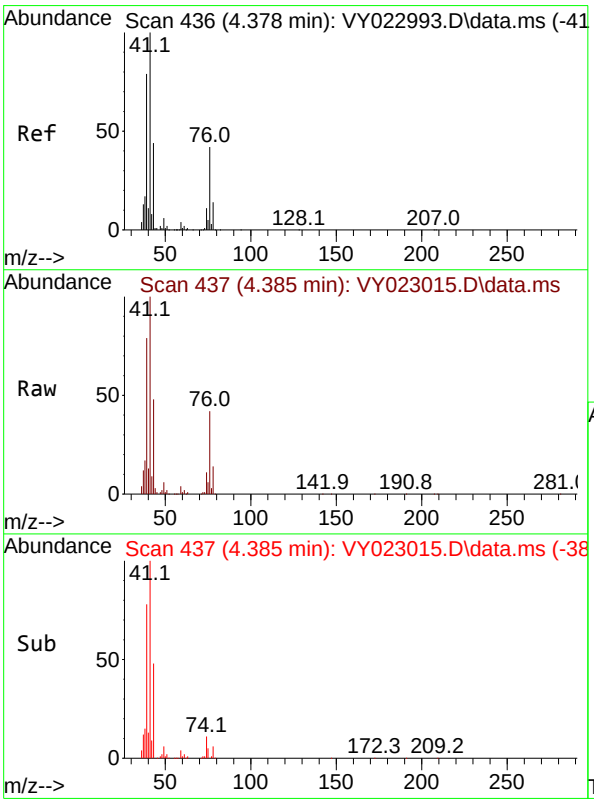
#13
Acrolein
Concen: 121.709 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 16336

Ion	Ratio	Lower	Upper
56	100		
55	73.7	57.8	86.6

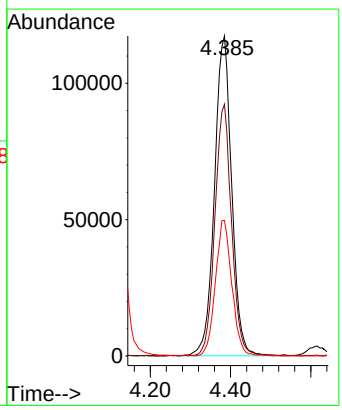


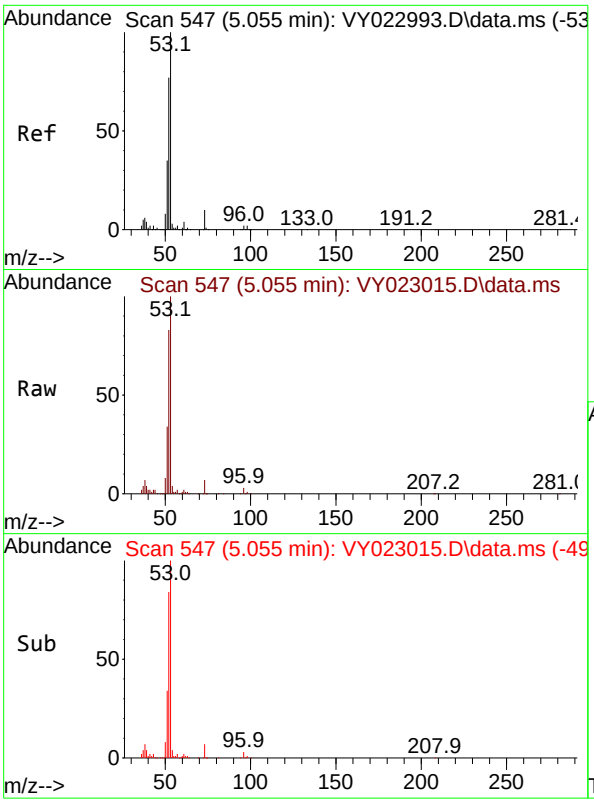


#14
Allyl chloride
Concen: 46.315 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 349805

Ion	Ratio	Lower	Upper
41	100		
39	76.0	60.1	90.1
76	40.7	32.2	48.4



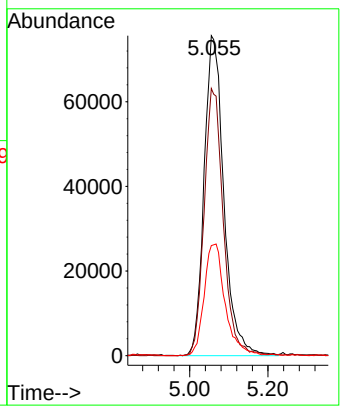


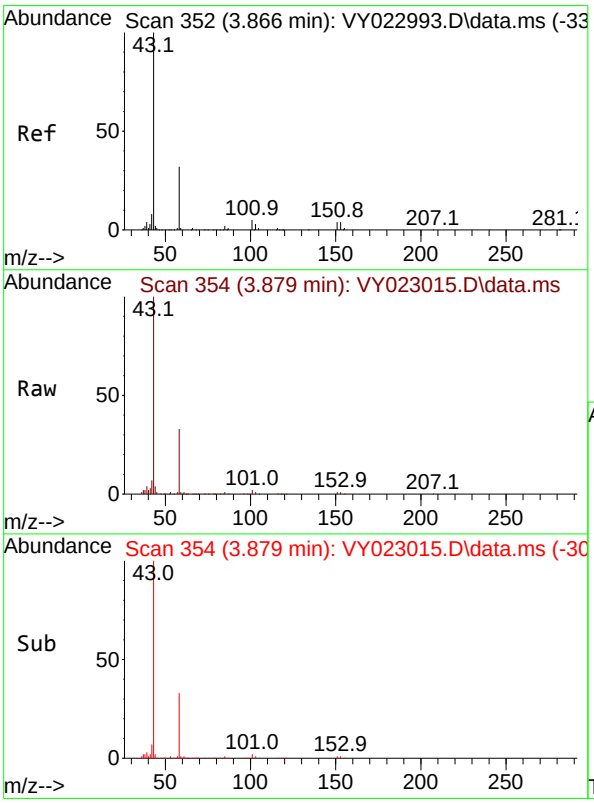
#15
Acrylonitrile
Concen: 269.039 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 264216

Ion	Ratio	Lower	Upper
53	100		
52	81.0	65.2	97.8
51	37.3	30.3	45.5

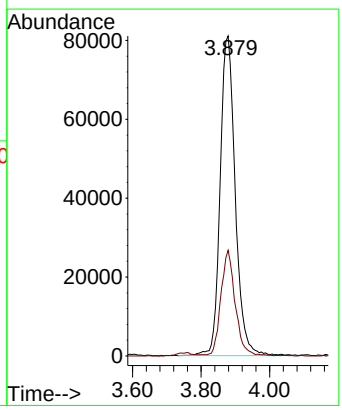


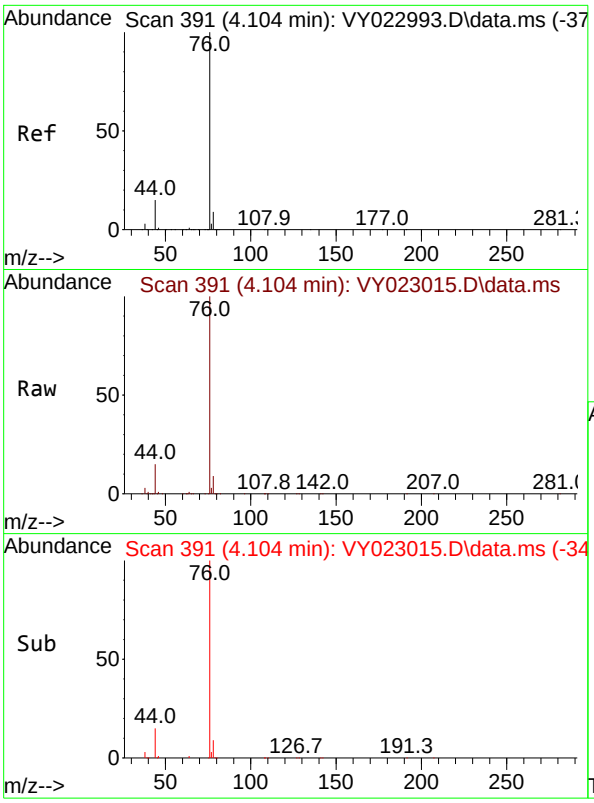


#16
Acetone
Concen: 287.564 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 246194

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.2	39.4



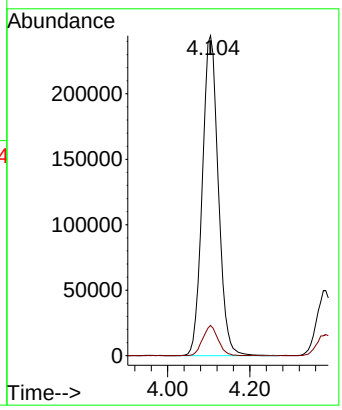


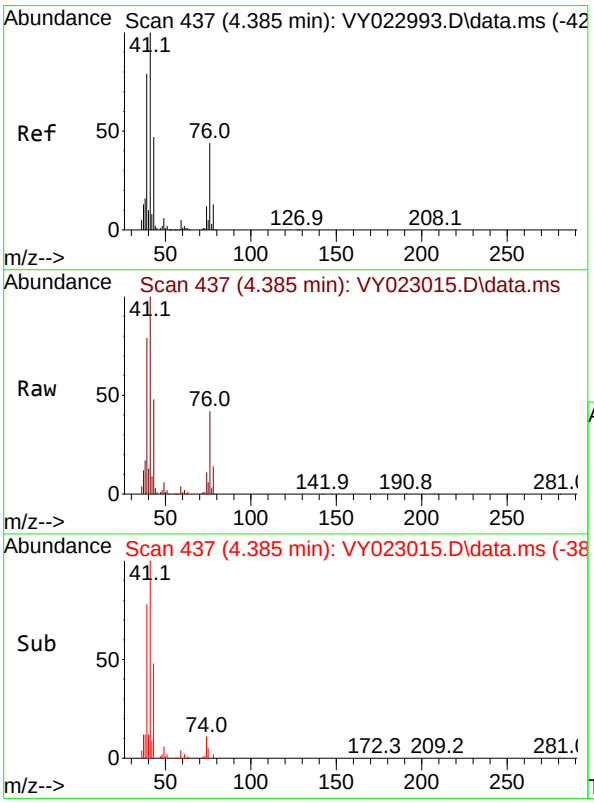
#17
Carbon Disulfide
Concen: 43.871 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 659160

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

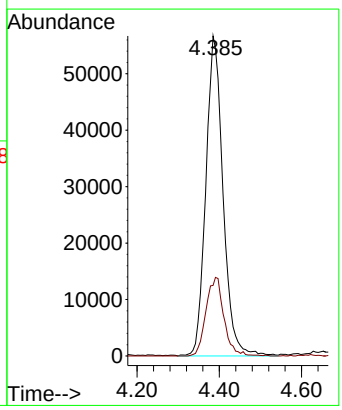


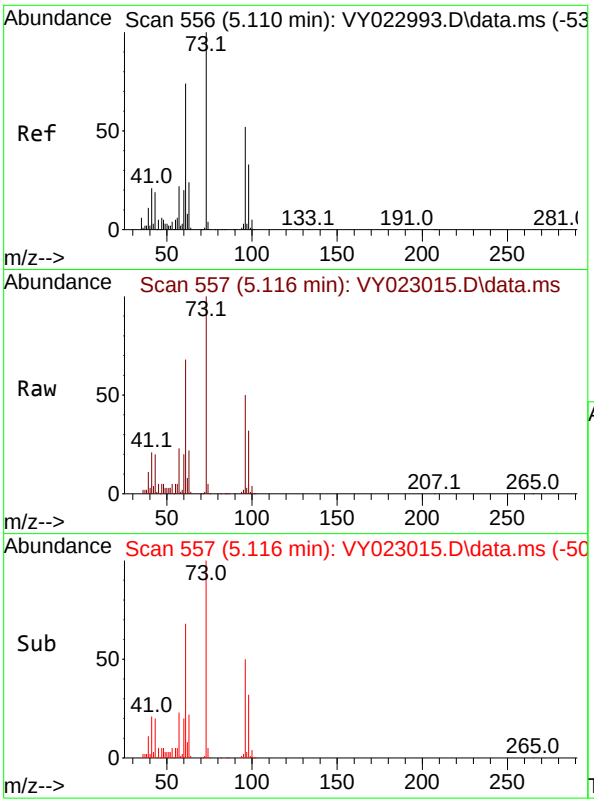


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 164914

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.1	30.1



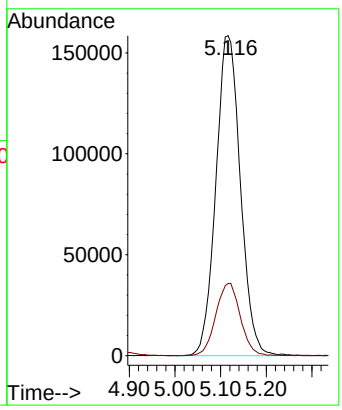


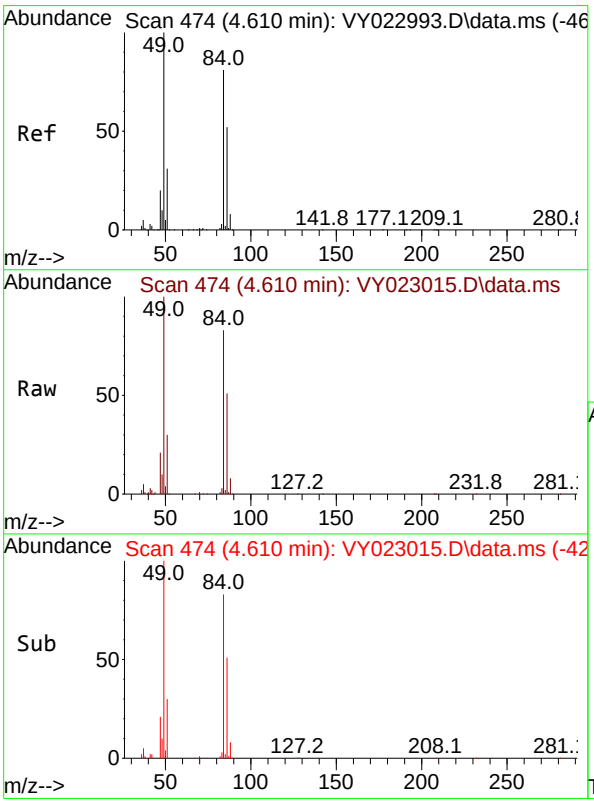
#19
Methyl tert-butyl Ether
Concen: 49.645 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 590328

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2

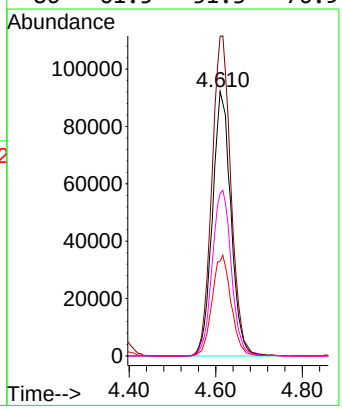


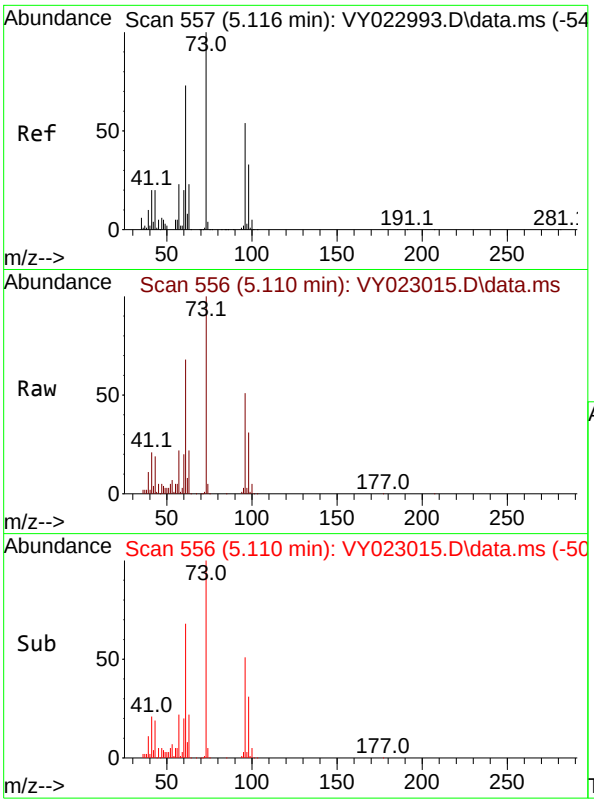


#20
Methylene Chloride
Concen: 44.522 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 84 Resp: 273604

Ion	Ratio	Lower	Upper
84	100		
49	120.9	98.2	147.4
51	35.9	30.5	45.7
86	61.5	51.3	76.9



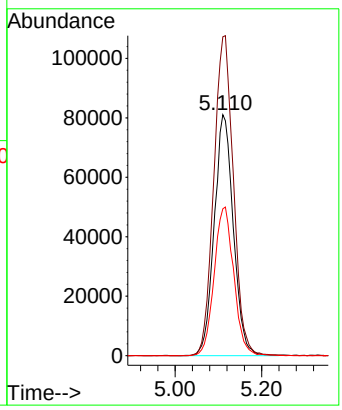


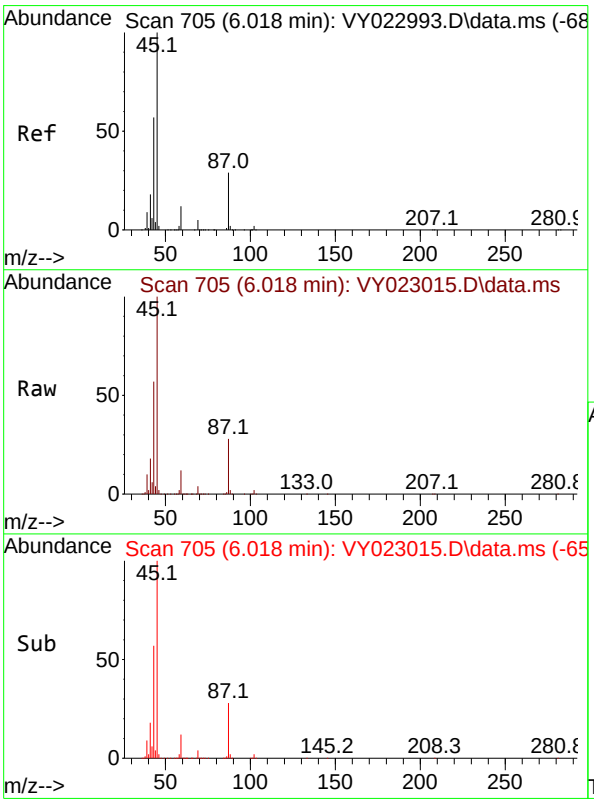
#21
trans-1,2-Dichloroethene
Concen: 45.236 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 249633

Ion	Ratio	Lower	Upper
96	100		
61	132.3	107.4	161.2
98	61.0	49.3	73.9

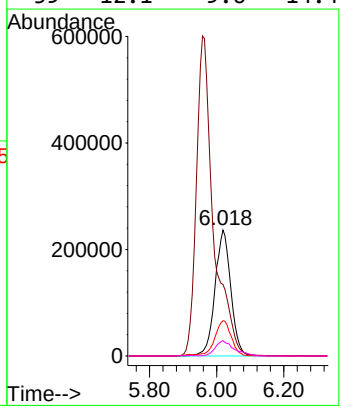


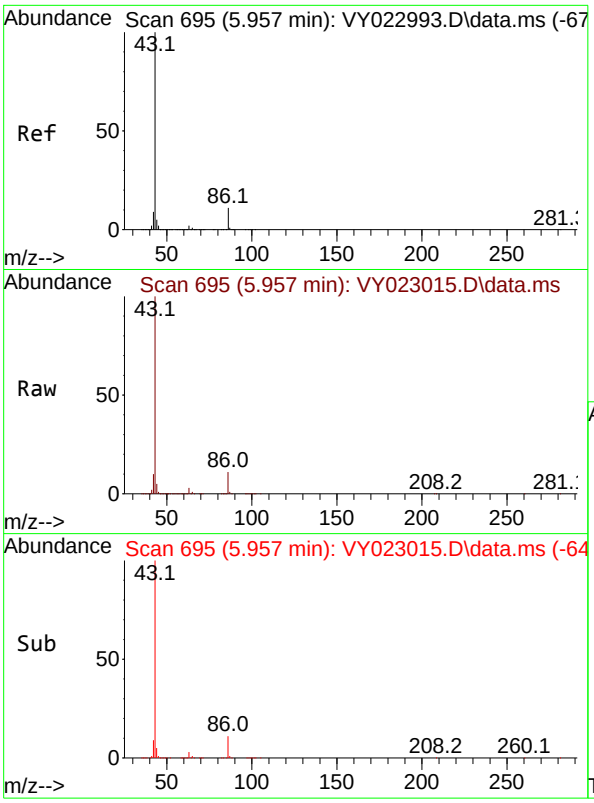


#22
Diisopropyl ether
Concen: 48.287 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 45 Resp: 773708

Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.3	67.9
87	28.0	23.3	34.9
59	12.1	9.6	14.4



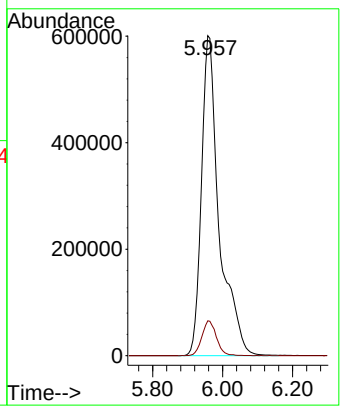


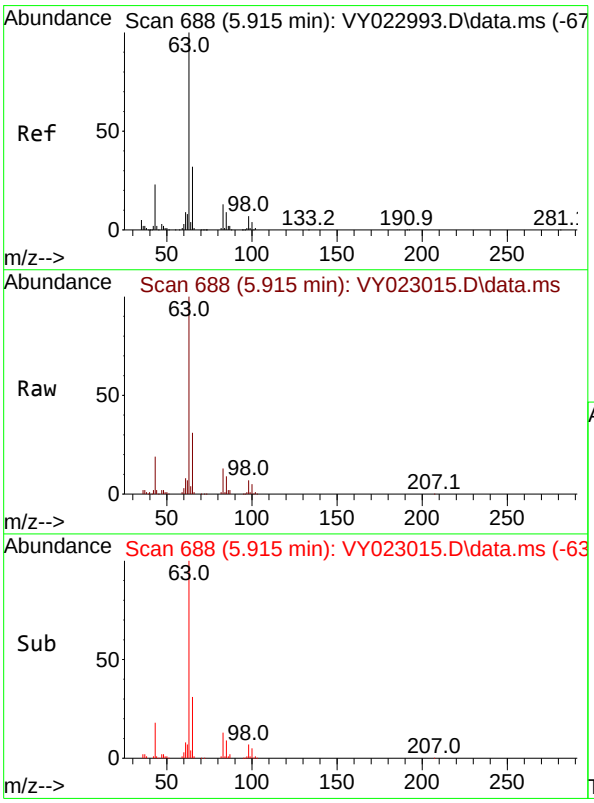
#23
Vinyl Acetate
Concen: 261.701 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2112837

Ion	Ratio	Lower	Upper
43	100		
86	10.9	9.0	13.4

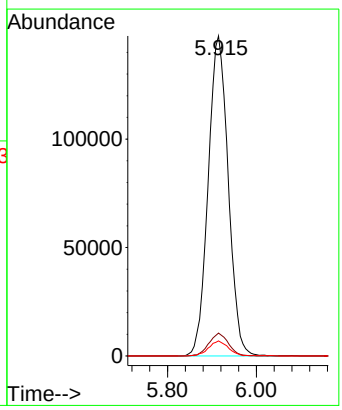


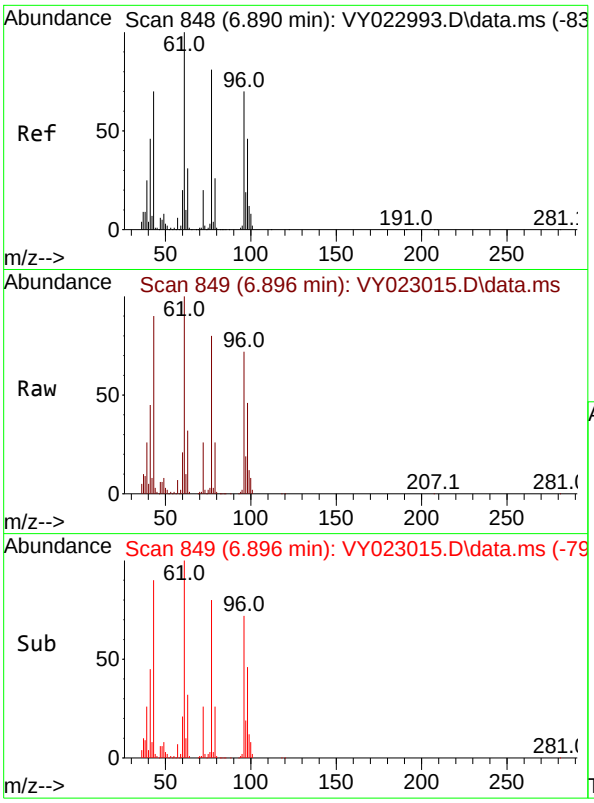


#24
1,1-Dichloroethane
Concen: 45.968 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 462627

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.5
100	4.7	2.1	6.2



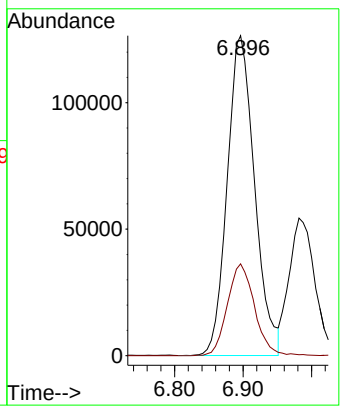


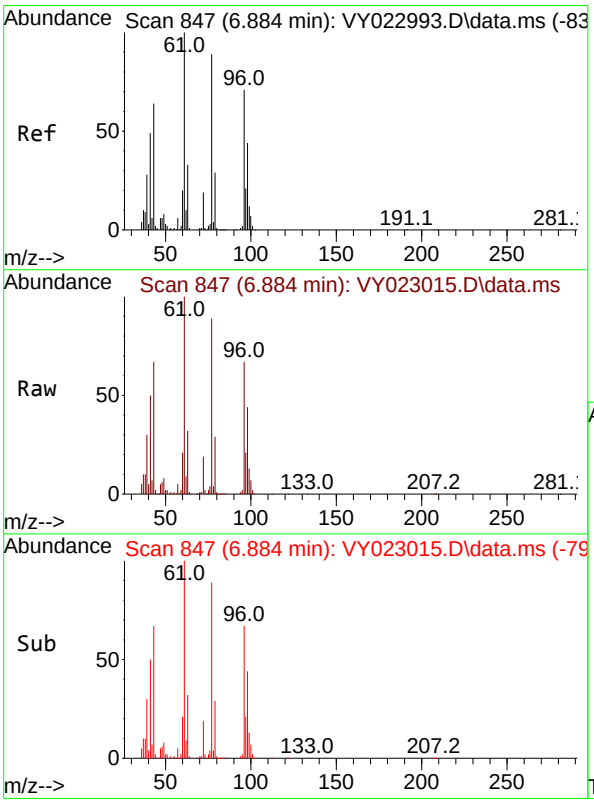
#25
2-Butanone
Concen: 286.473 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 351847

Ion	Ratio	Lower	Upper
43	100		
72	28.7	22.9	34.3

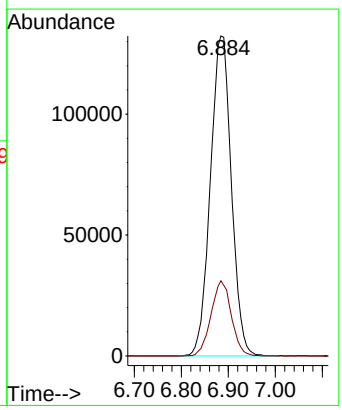


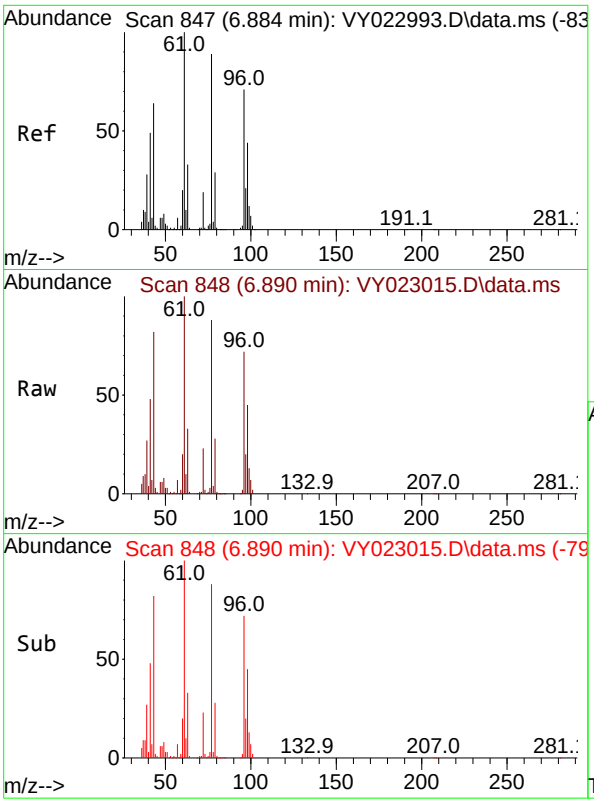


#26
2,2-Dichloropropane
Concen: 46.522 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 77 Resp: 410339

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.3	33.9



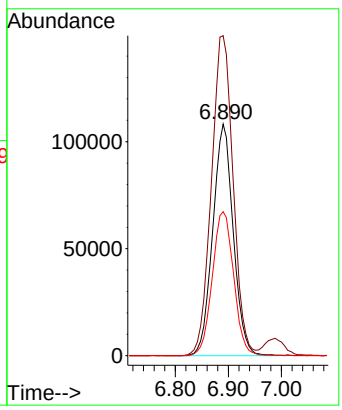


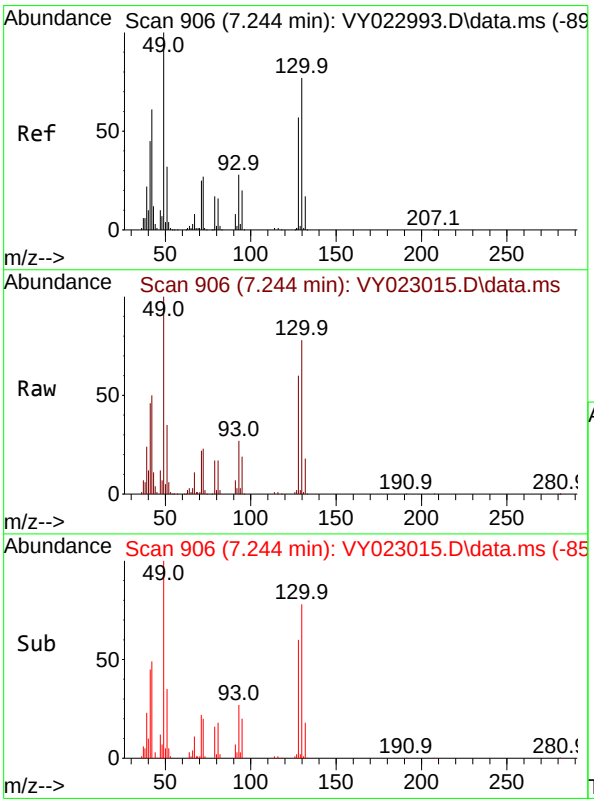
#27
cis-1,2-Dichloroethene
Concen: 45.750 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 290970

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	286.2
98	64.6	0.0	127.4

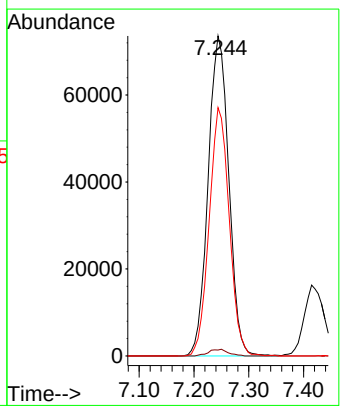


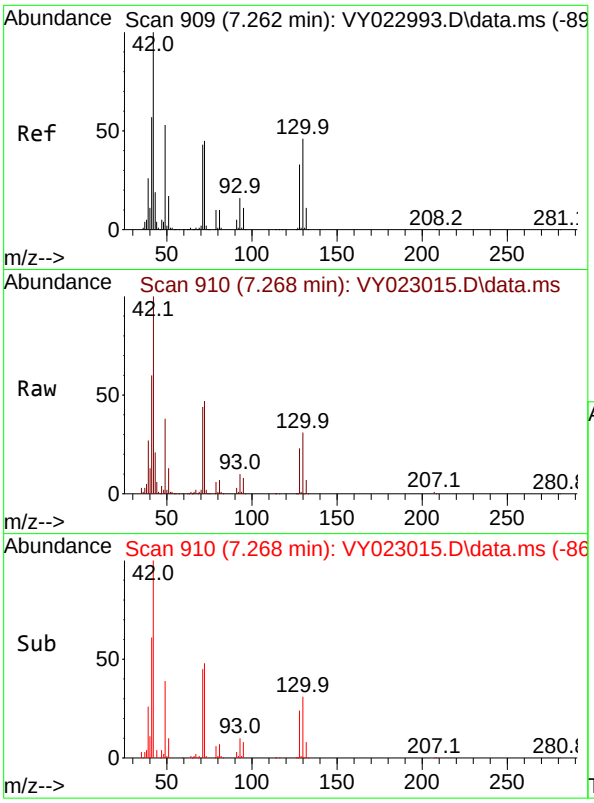


#28
Bromochloromethane
Concen: 49.320 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 49 Resp: 192517

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	75.4	61.8	92.8



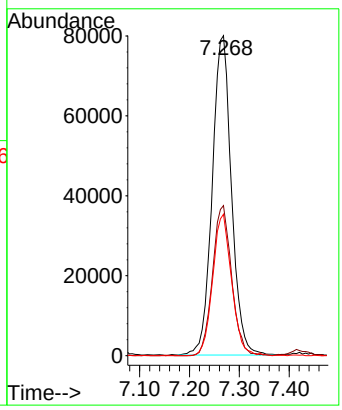


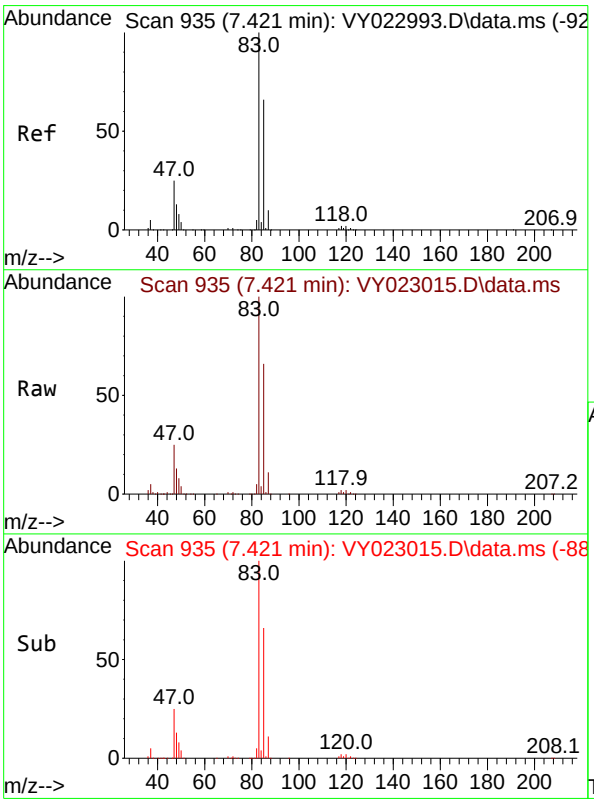
#29
Tetrahydrofuran
Concen: 275.830 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 214487

Ion	Ratio	Lower	Upper
42	100		
72	46.5	37.5	56.3
71	43.5	34.2	51.4

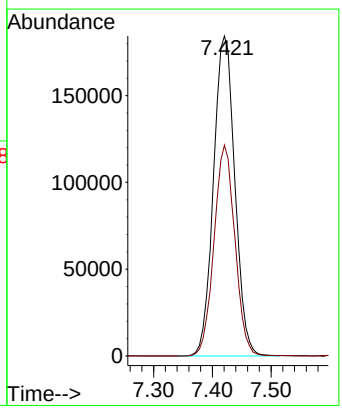


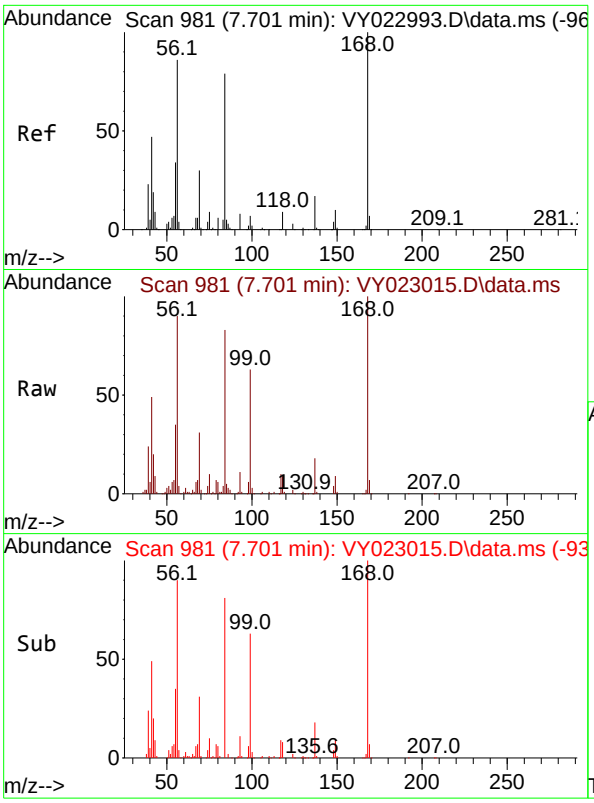


#30
Chloroform
Concen: 45.883 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 83 Resp: 465833

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.6	78.8



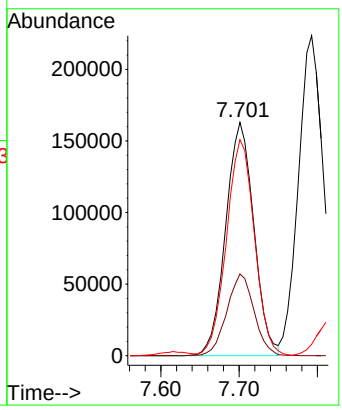


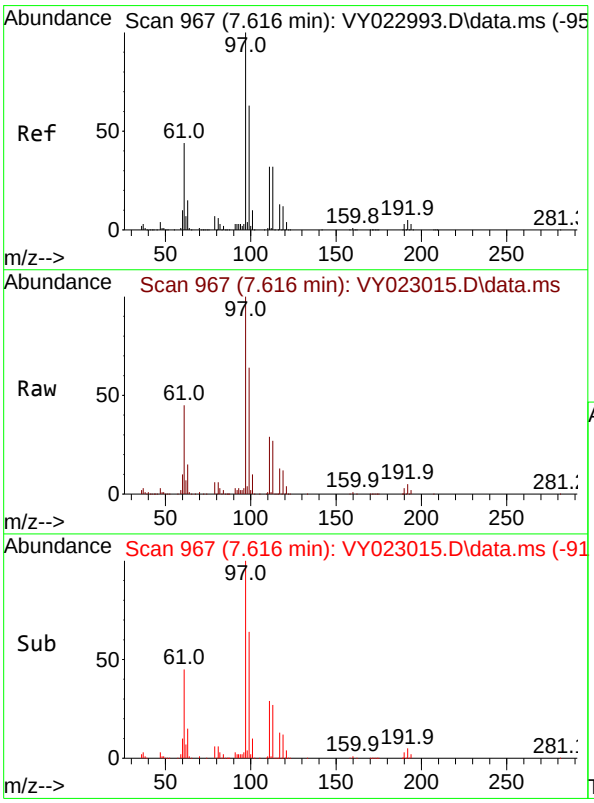
#31
Cyclohexane
Concen: 43.348 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 407632

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.1	42.1
84	91.1	73.5	110.3

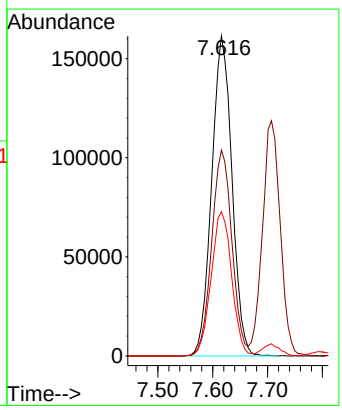


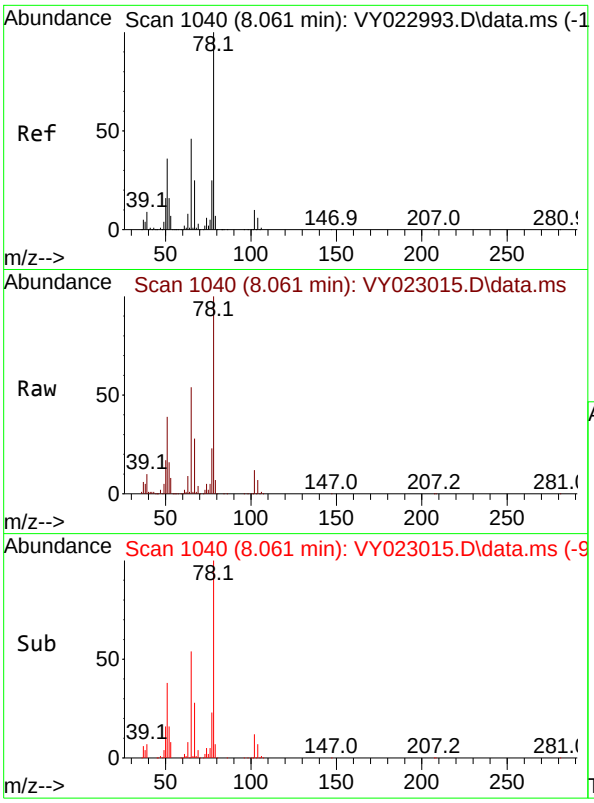


#32
1,1,1-Trichloroethane
Concen: 45.068 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 97 Resp: 415153

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	45.7	36.1	54.1



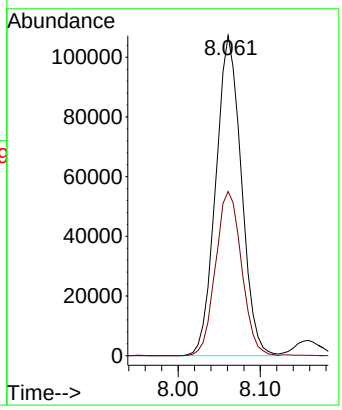


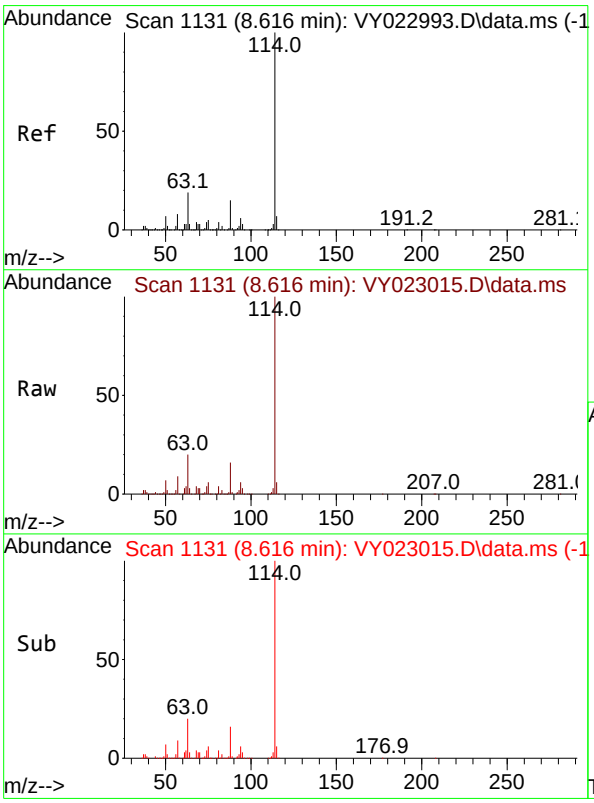
#33
1,2-Dichloroethane-d4
Concen: 49.053 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 231681

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	107.4

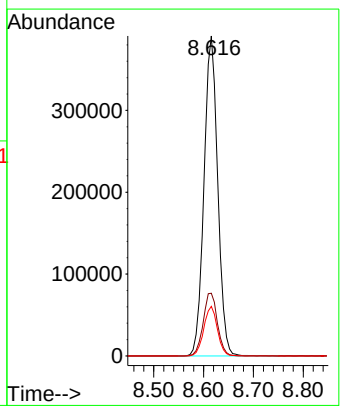


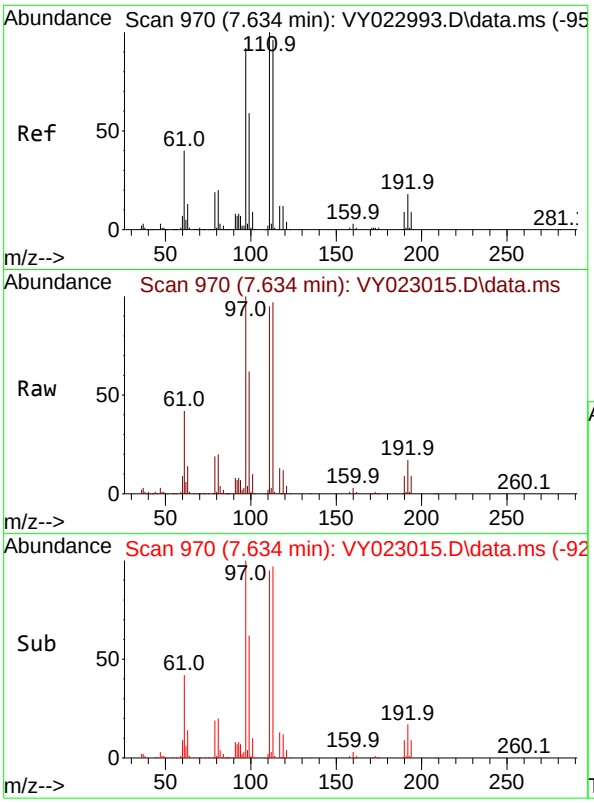


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:114 Resp: 745278

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.8
88	15.5	0.0	30.2



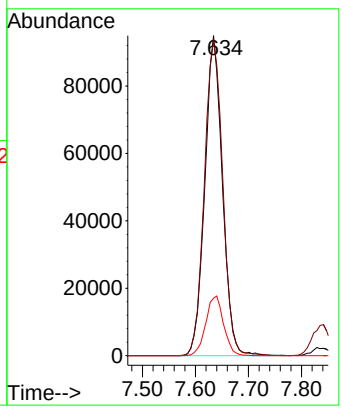


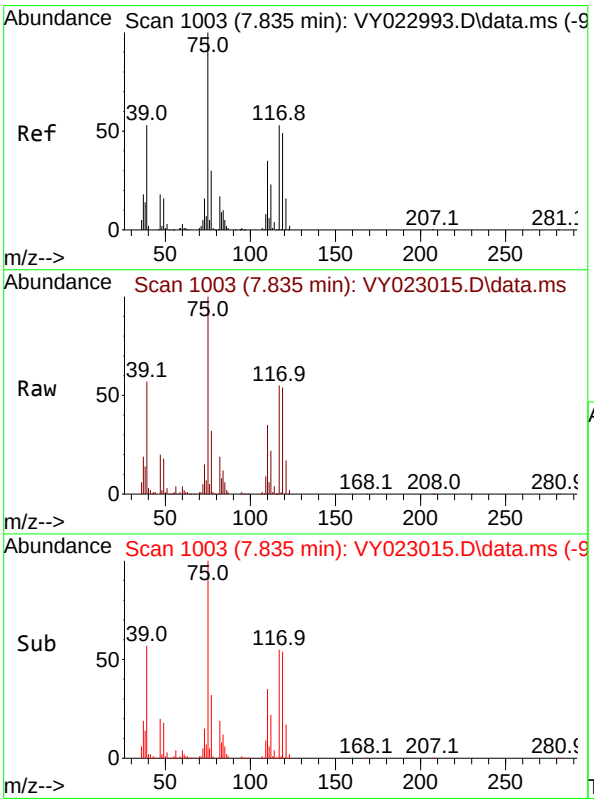
#35
Dibromofluoromethane
Concen: 46.314 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 218952

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.2	124.8
192	18.9	15.3	22.9

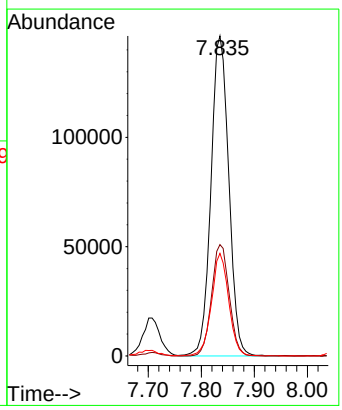


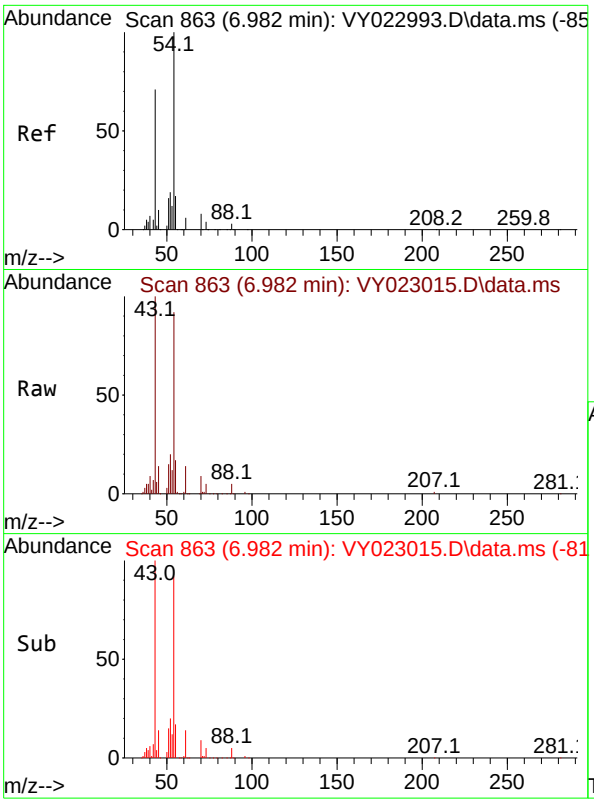


#36
1,1-Dichloropropene
Concen: 45.967 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 342303

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.3	51.9
77	31.0	24.6	37.0



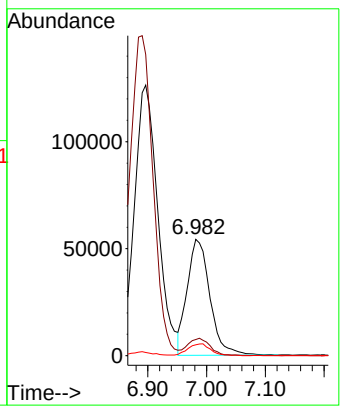


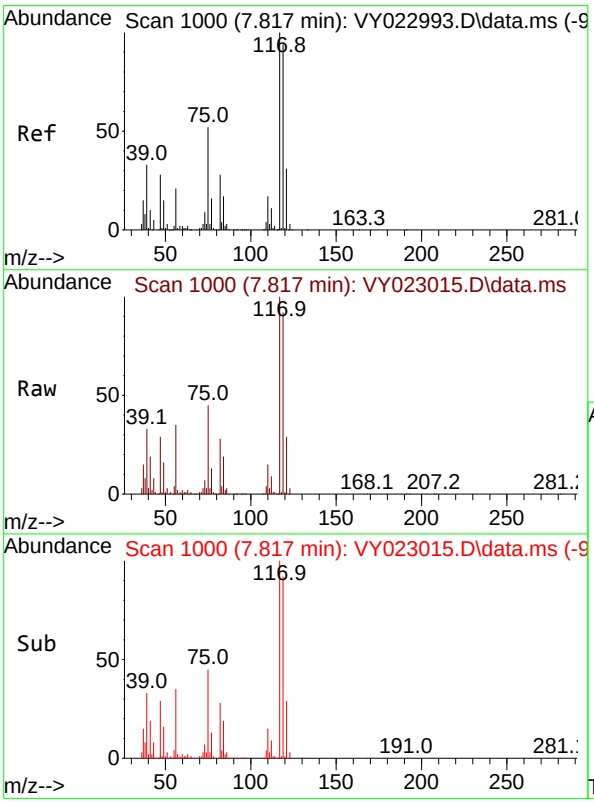
#37
Ethyl Acetate
Concen: 52.544 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 145321

Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.6	17.4
70	10.2	8.5	12.7

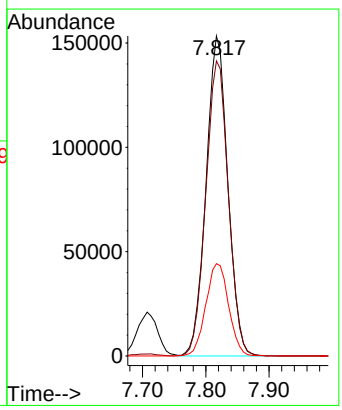


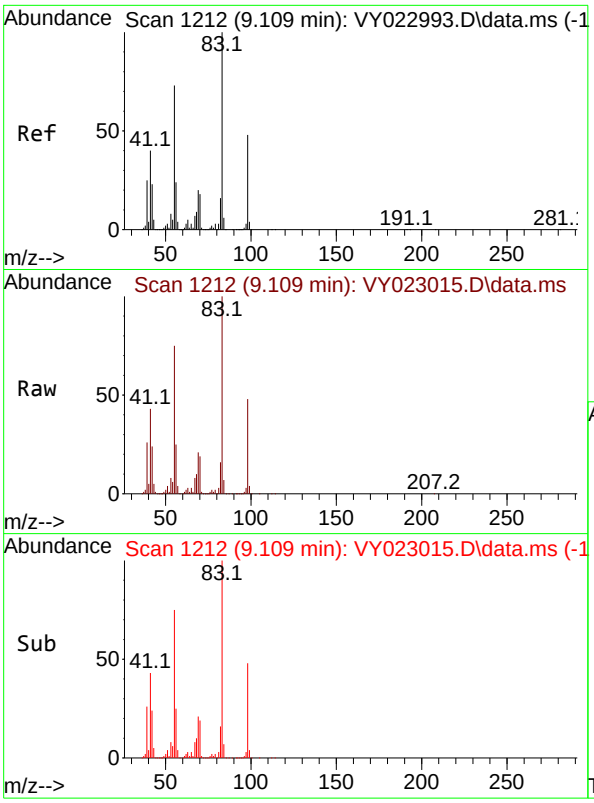


#38
Carbon Tetrachloride
Concen: 45.380 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 367135

Ion	Ratio	Lower	Upper
117	100		
119	92.2	74.9	112.3
121	28.9	24.6	37.0



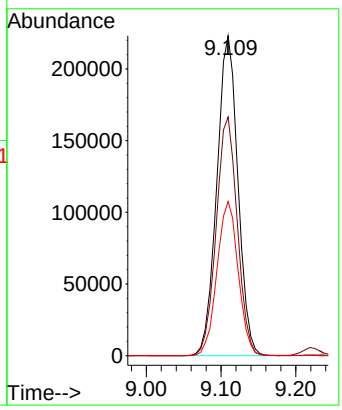


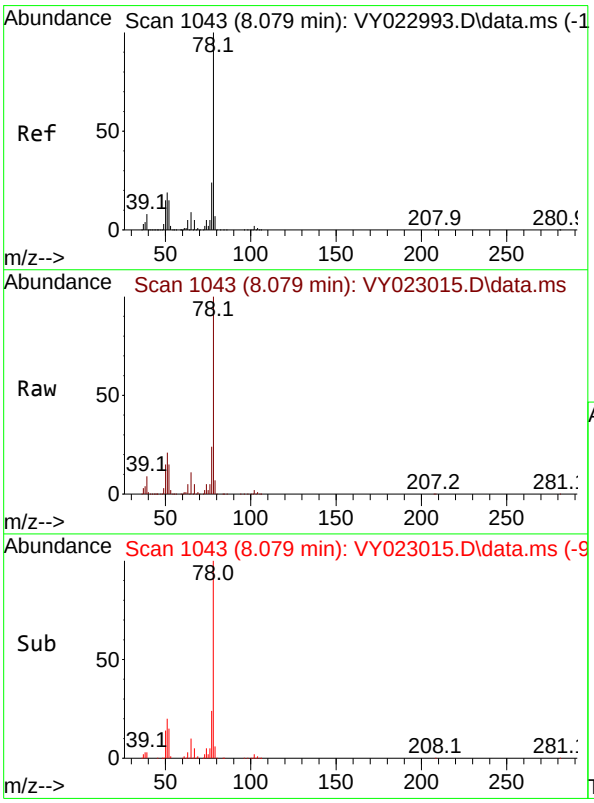
#39
Methylcyclohexane
Concen: 45.487 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 438429

Ion	Ratio	Lower	Upper
83	100		
55	74.6	58.1	87.1
98	48.2	38.5	57.7

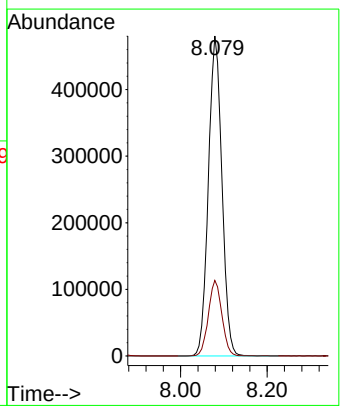


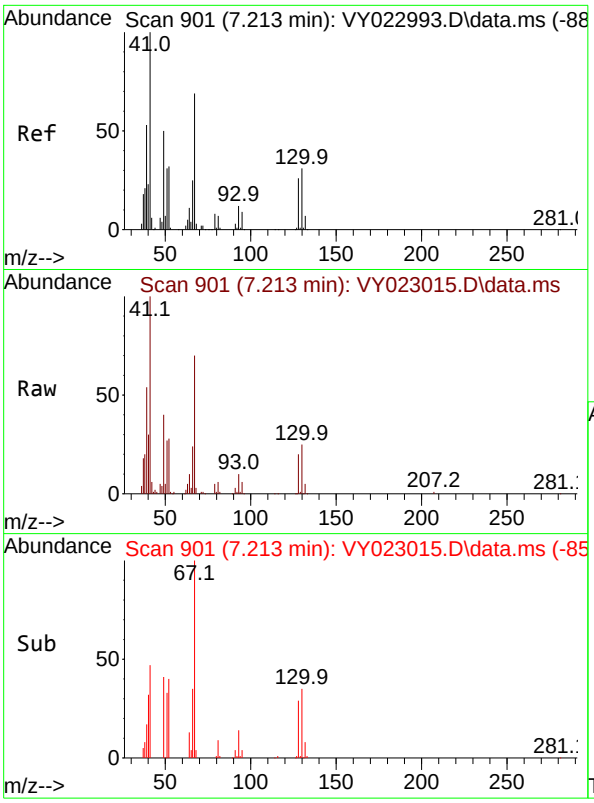


#40
Benzene
Concen: 46.502 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 78 Resp: 1042640

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4



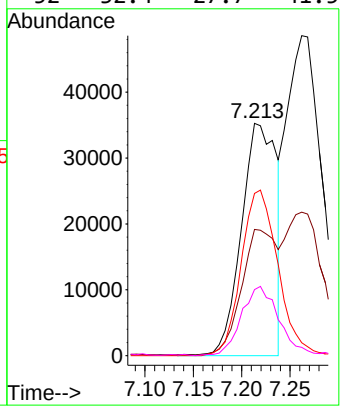


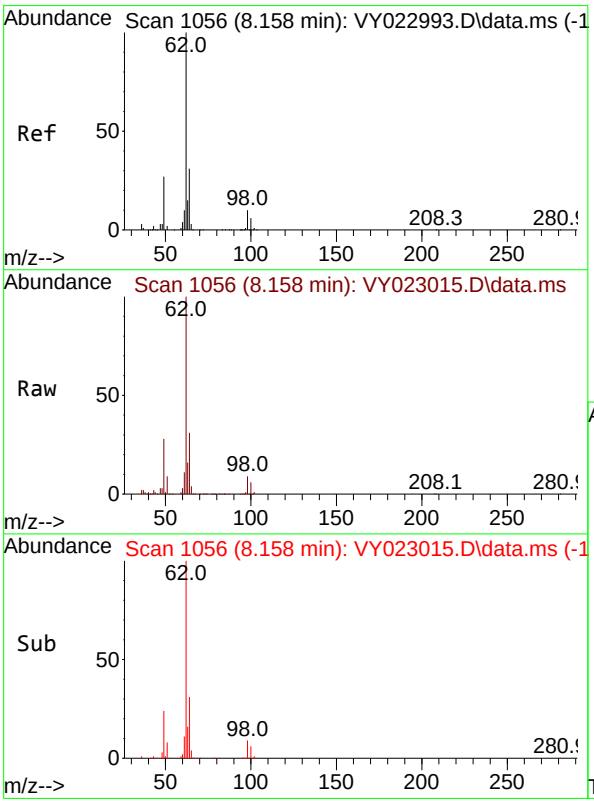
#41
Methacrylonitrile
Concen: 59.045 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 88958

Ion	Ratio	Lower	Upper
41	100		
39	54.2	50.0	75.0
67	74.5	65.4	98.2
52	32.4	27.7	41.5

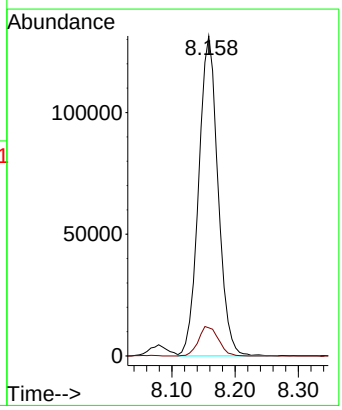


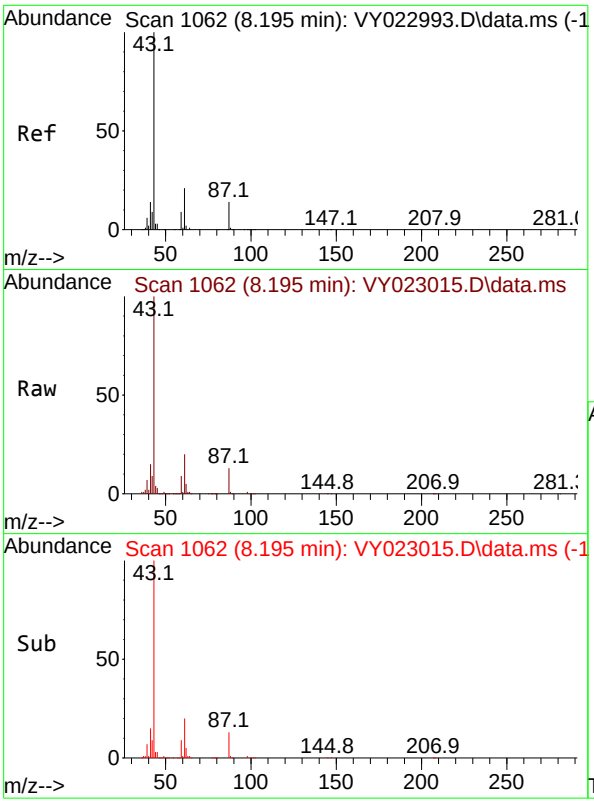


#42
1,2-Dichloroethane
Concen: 50.055 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 62 Resp: 279220

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0



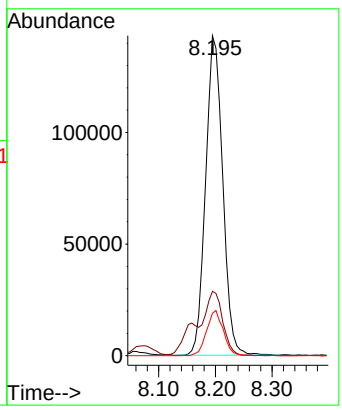


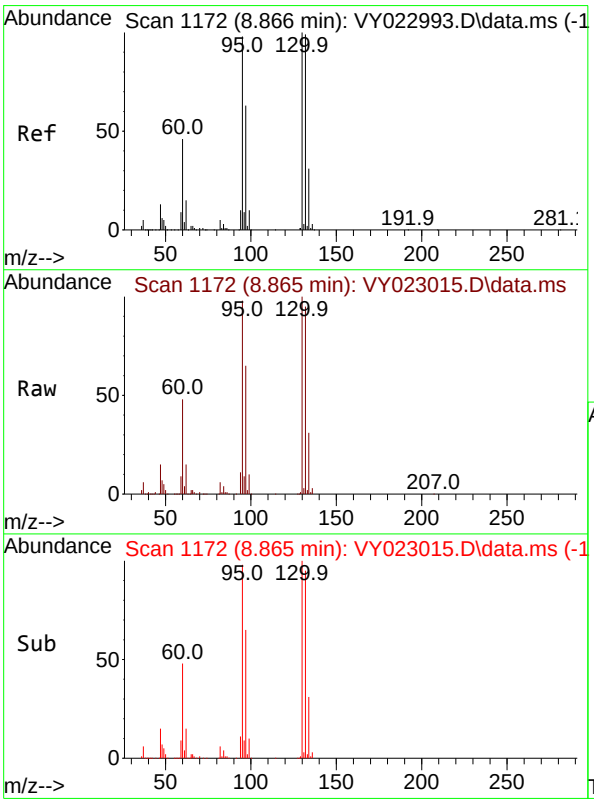
#43
Isopropyl Acetate
Concen: 54.629 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 300111

Ion	Ratio	Lower	Upper
43	100		
61	21.0	25.0	37.4#
87	13.9	11.1	16.7

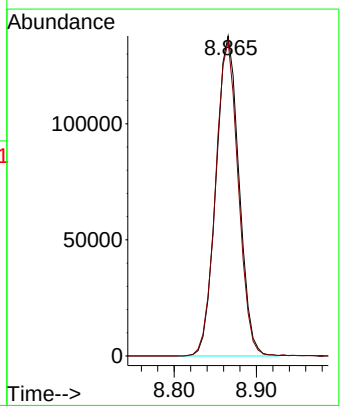


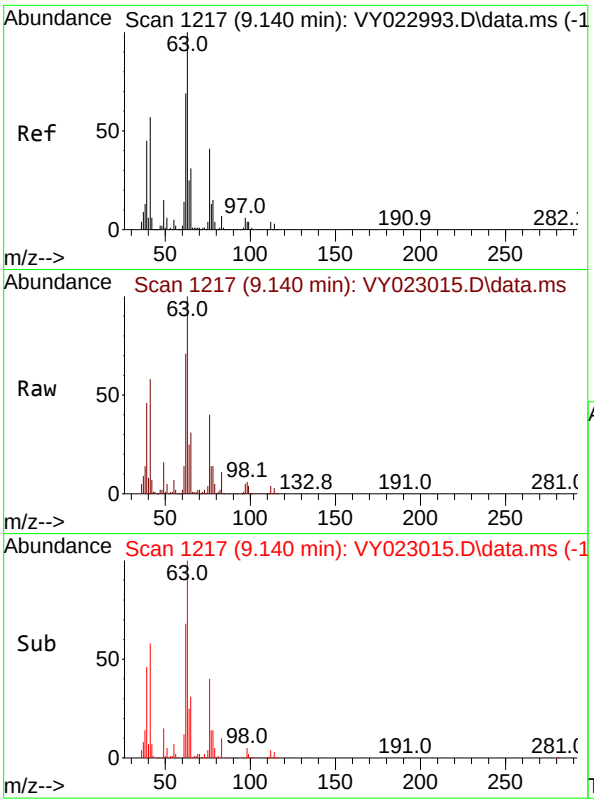


#44
Trichloroethene
Concen: 46.410 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:130 Resp: 267268

Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	195.8



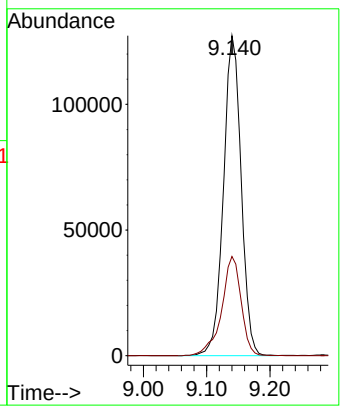


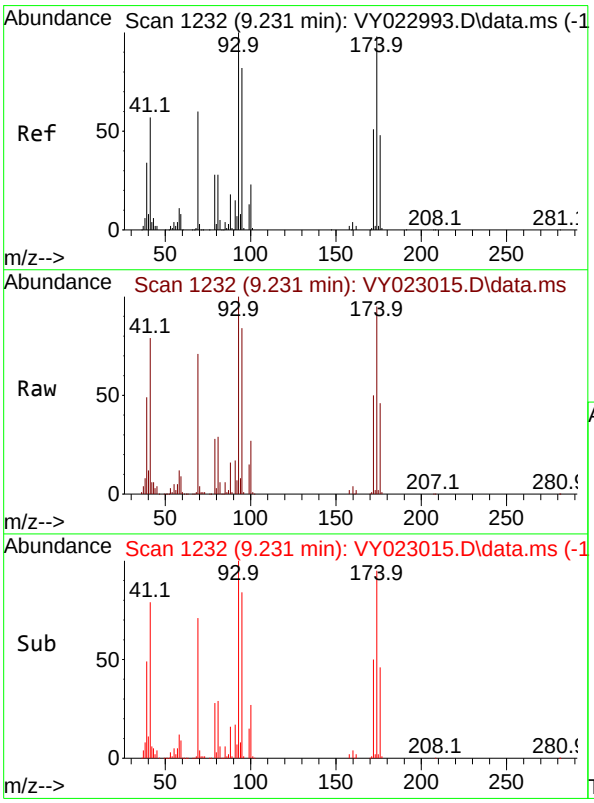
#45
1,2-Dichloropropane
Concen: 47.131 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 246776

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	37.0

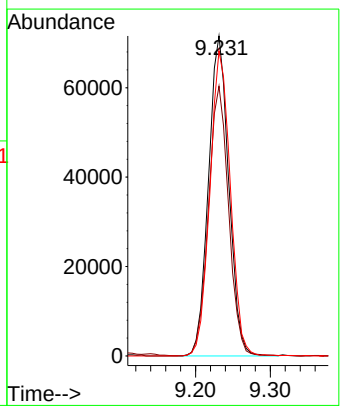


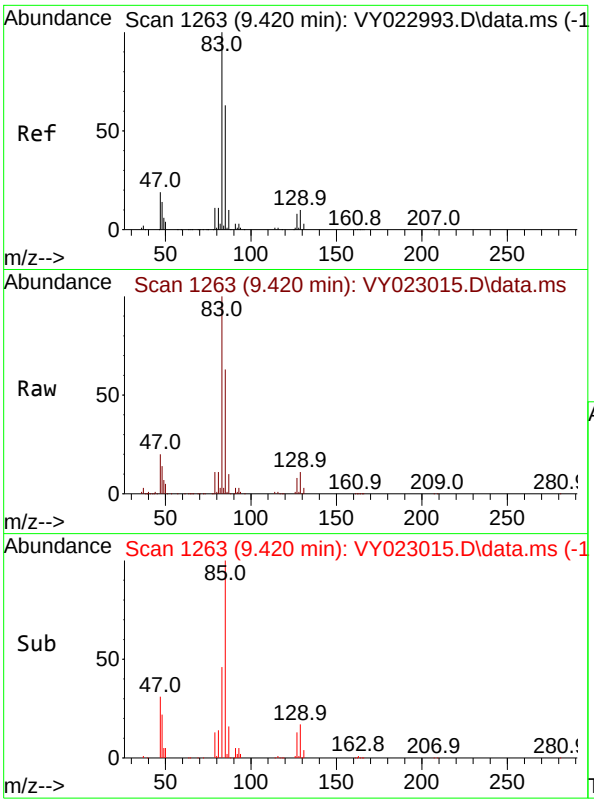


#46
Dibromomethane
Concen: 49.790 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 93 Resp: 134753

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.9	98.9
174	96.5	76.4	114.6



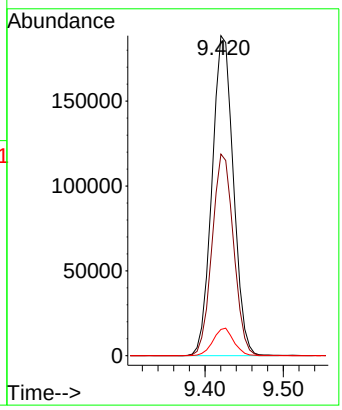


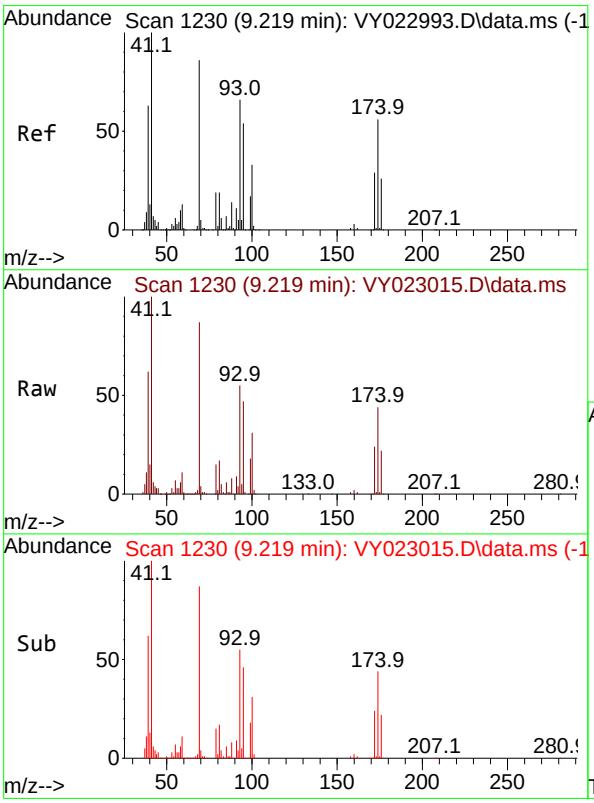
#47
Bromodichloromethane
Concen: 47.861 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 358051

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.6	75.8
127	8.2	6.5	9.7

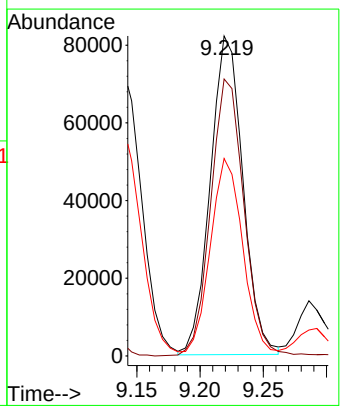


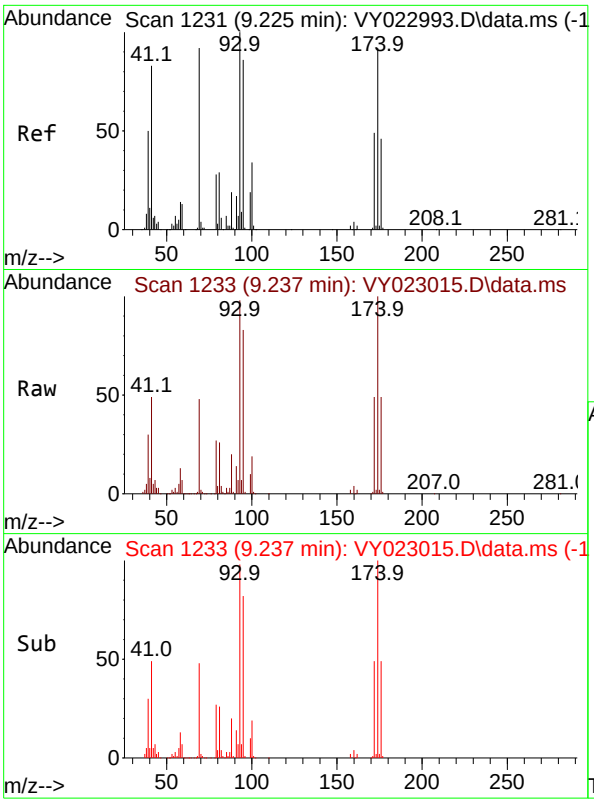


#48
Methyl methacrylate
Concen: 55.518 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 41 Resp: 147249

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.4	107.0
39	59.4	47.8	71.8



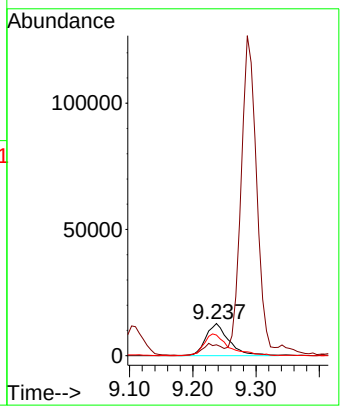


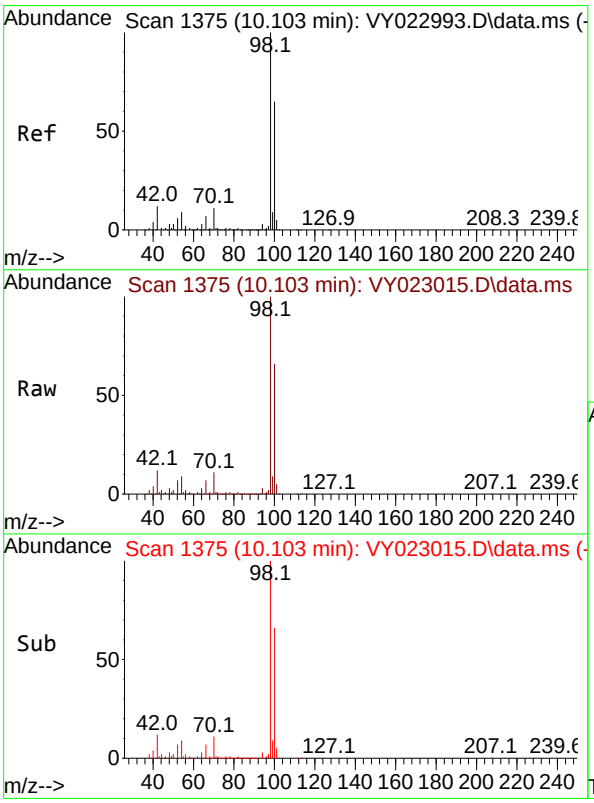
#49
1,4-Dioxane
Concen: 1129.451 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 32221

Ion	Ratio	Lower	Upper
88	100		
43	30.1	28.7	43.1
58	72.7	59.8	89.6

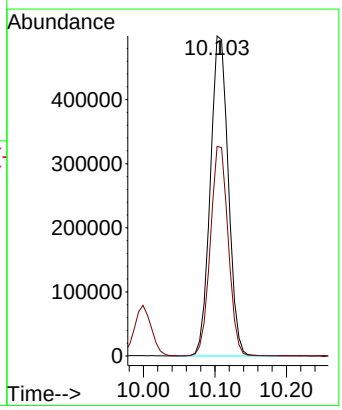


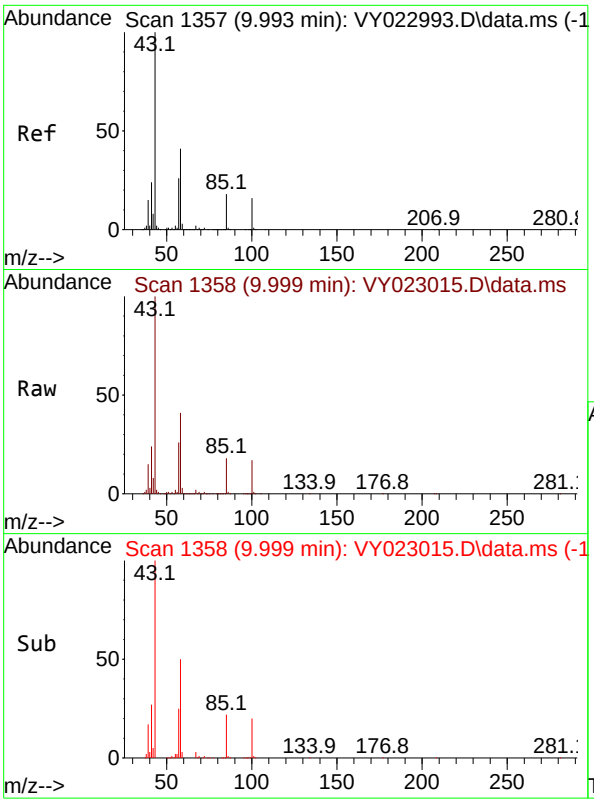


#50
Toluene-d8
Concen: 46.437 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 98 Resp: 870592

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.2	78.2



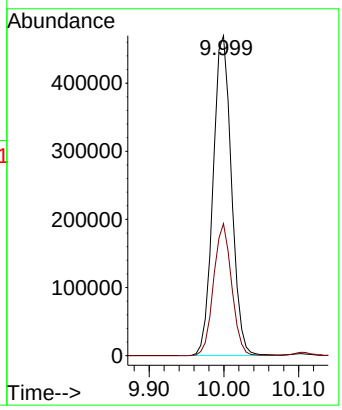


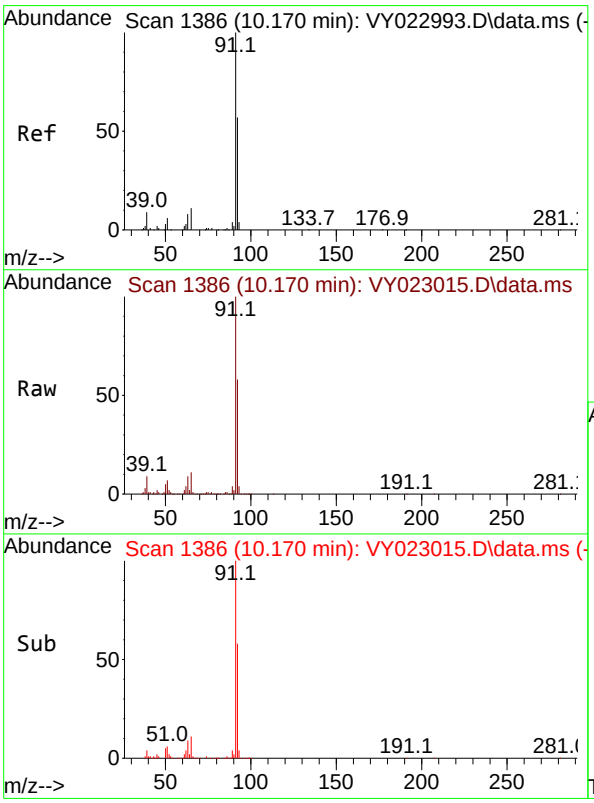
#51
4-Methyl-2-Pentanone
Concen: 288.338 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 804002

Ion	Ratio	Lower	Upper
43	100		
58	40.5	32.5	48.7

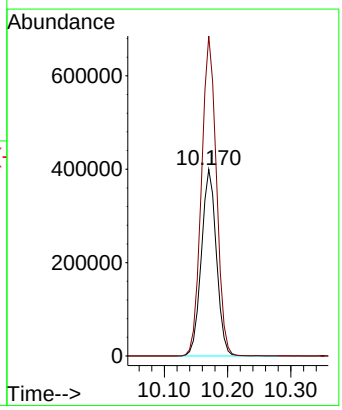


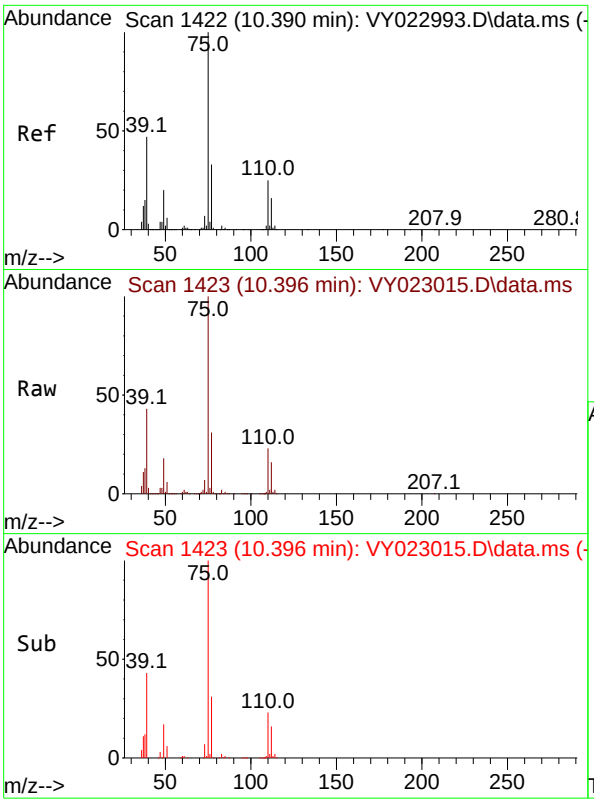


#52
Toluene
Concen: 47.287 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 92 Resp: 659183

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.8	206.6



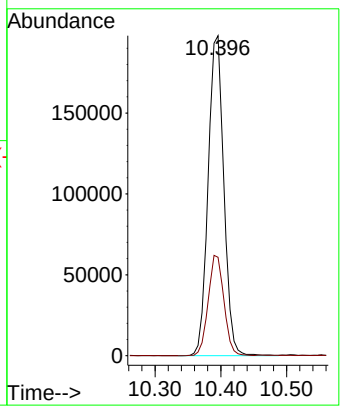


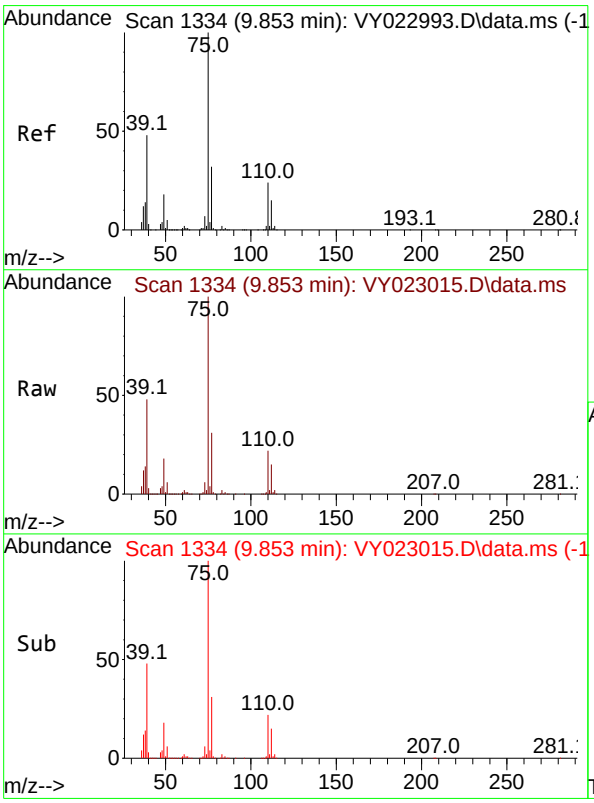
#53
t-1,3-Dichloropropene
Concen: 51.095 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 328119

Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.4	39.6

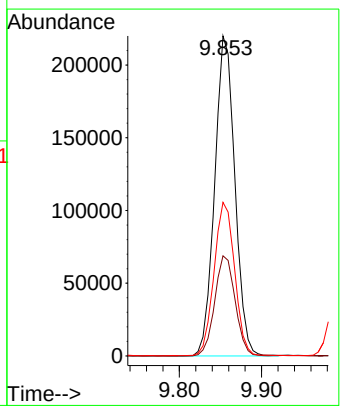


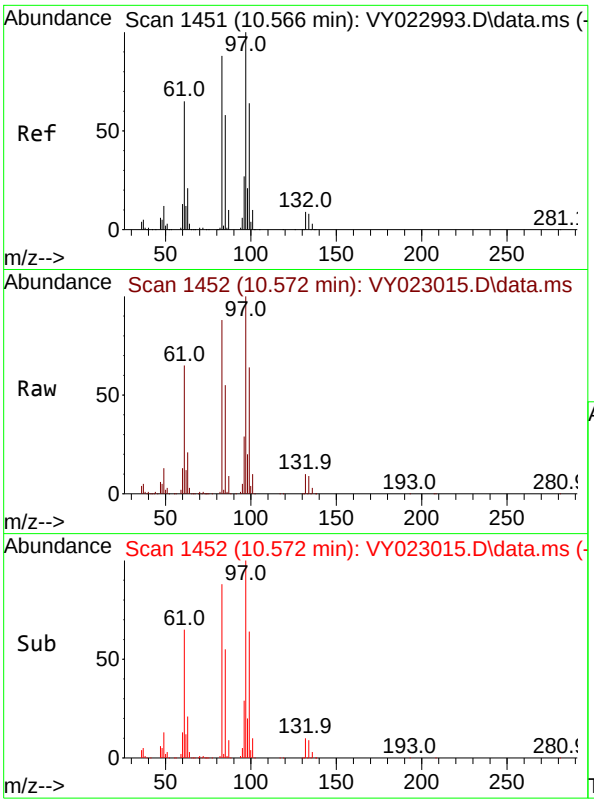


#54
cis-1,3-Dichloropropene
Concen: 48.527 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 375614

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	47.9	38.2	57.2



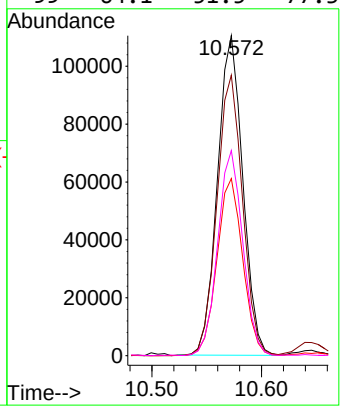


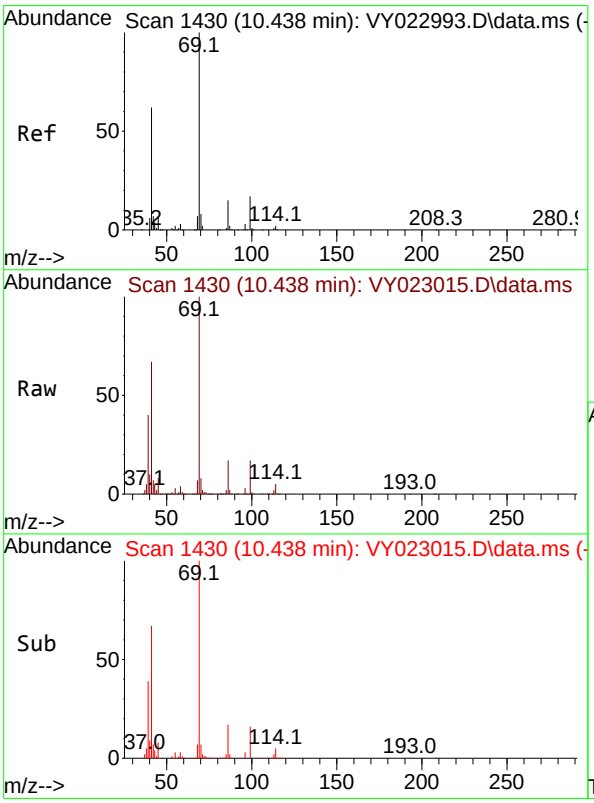
#55
1,1,2-Trichloroethane
Concen: 49.876 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 177418

Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.2	105.2
85	55.4	46.2	69.2
99	64.1	51.5	77.3

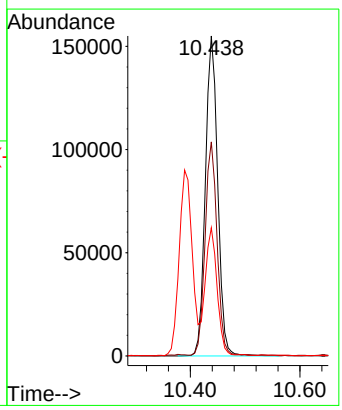


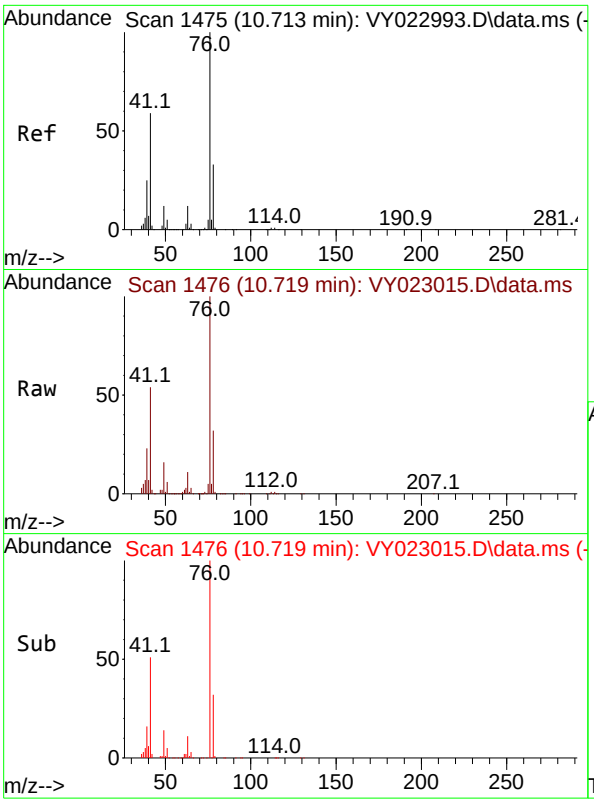


#56
Ethyl methacrylate
Concen: 54.291 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 69 Resp: 241078

Ion	Ratio	Lower	Upper
69	100		
41	64.7	51.0	76.4
39	39.3	30.6	46.0



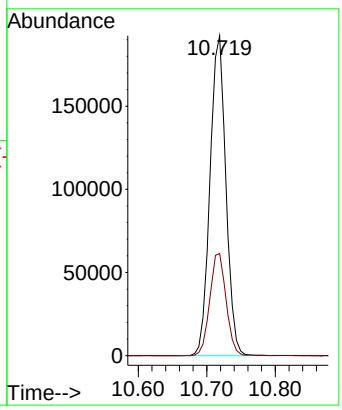


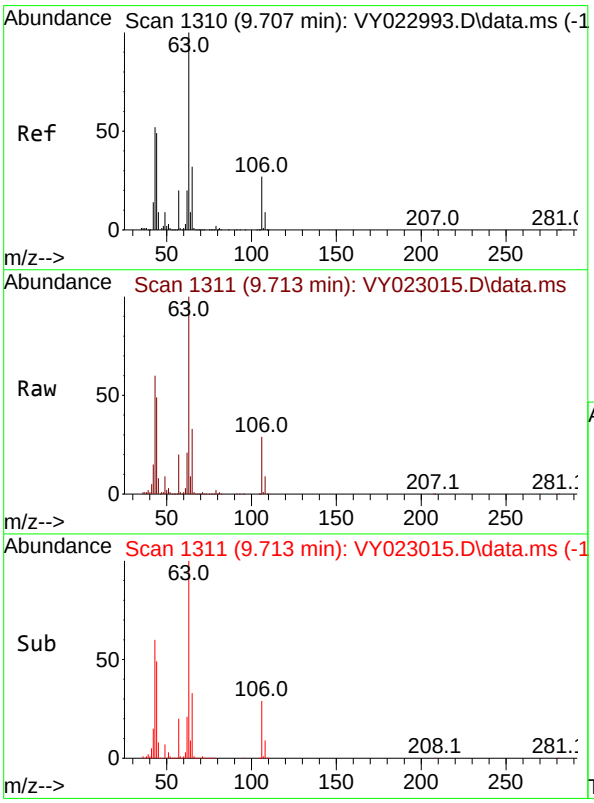
#57
1,3-Dichloropropane
Concen: 50.497 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 310300

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.6	39.8

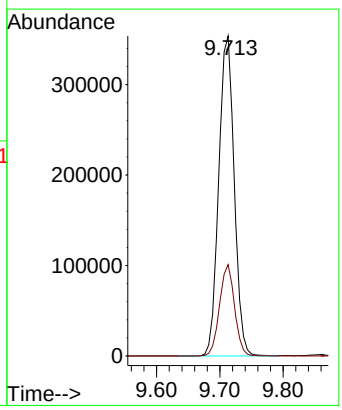


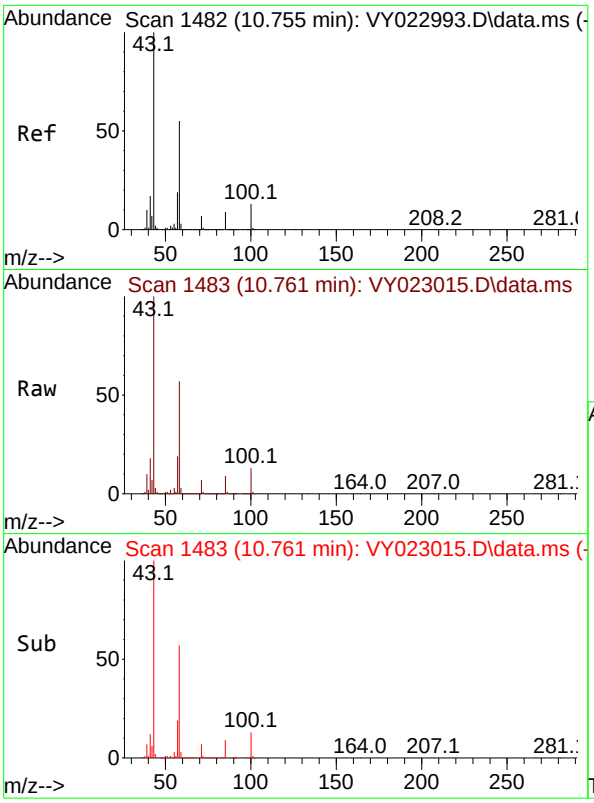


#58
2-Chloroethyl Vinyl ether
Concen: 275.393 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 63 Resp: 598615

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.6	33.8



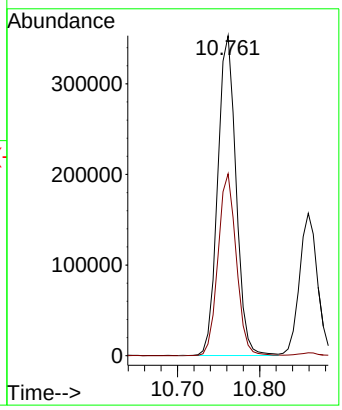


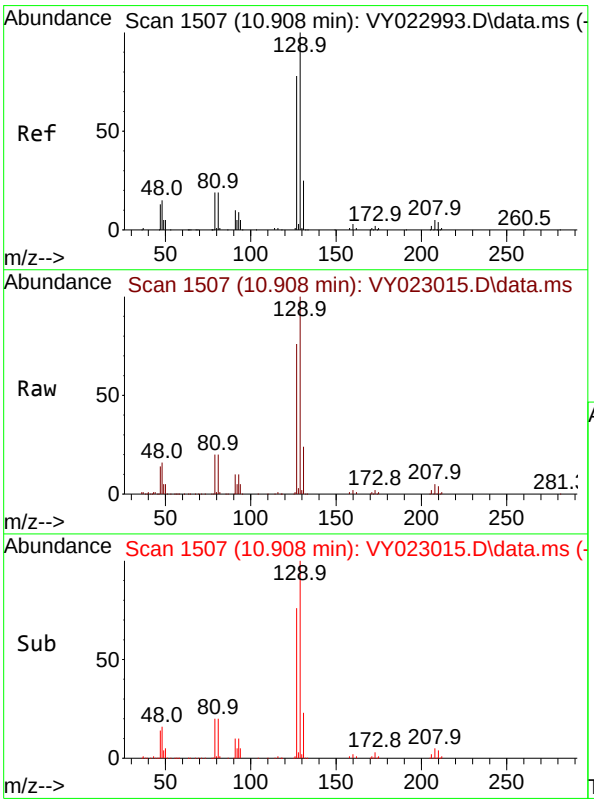
#59
2-Hexanone
Concen: 298.947 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 547928

Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.1	84.3

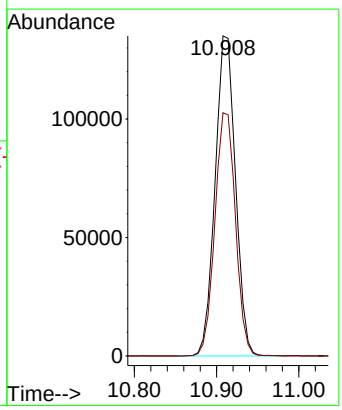


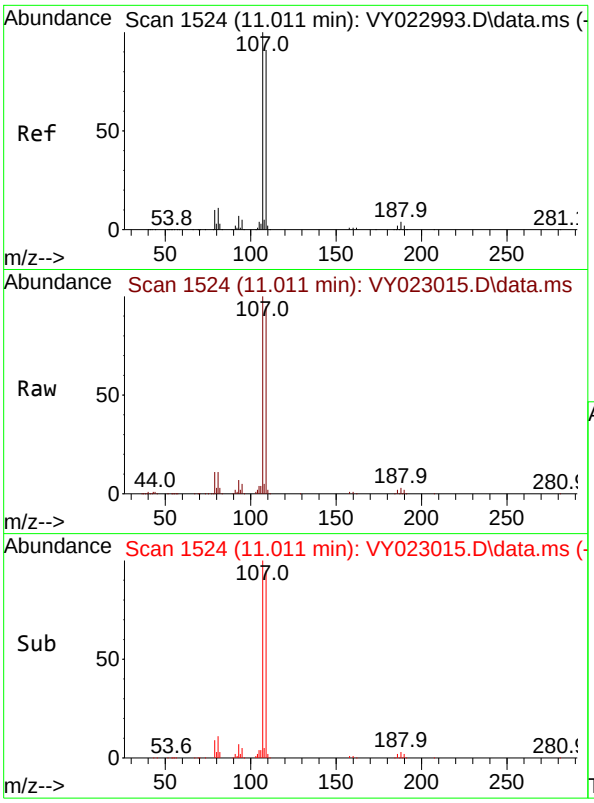


#60
Dibromochloromethane
Concen: 49.953 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:129 Resp: 232680

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.7	116.1



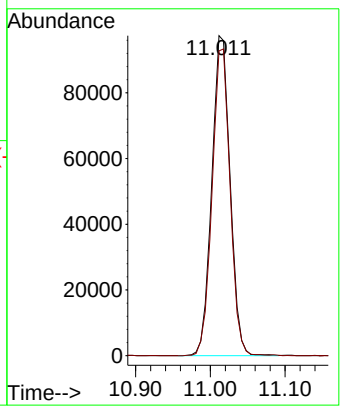


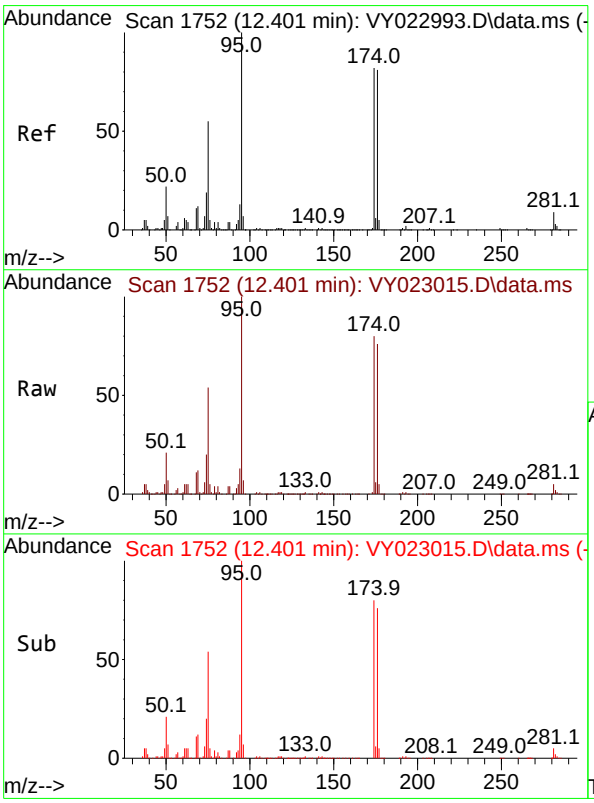
#61
1,2-Dibromoethane
Concen: 51.415 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 166085

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.1	112.7

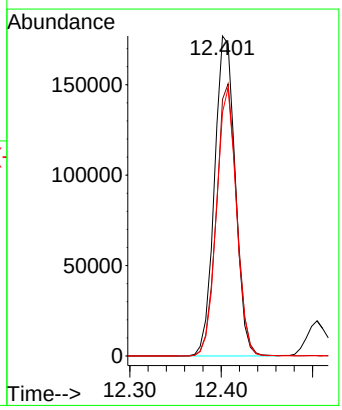


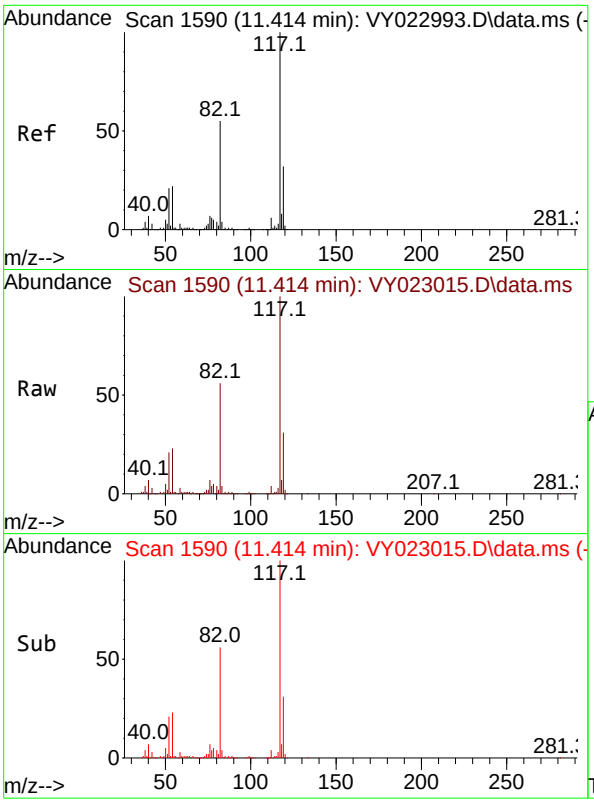


#62
4-Bromofluorobenzene
Concen: 47.233 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 95 Resp: 278747

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	170.8
176	80.7	0.0	163.6





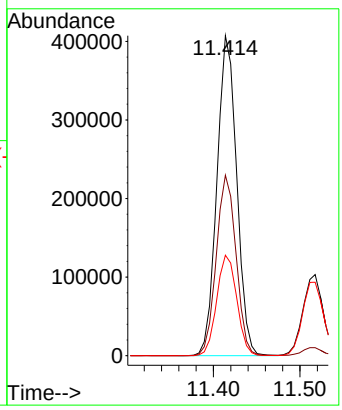
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1

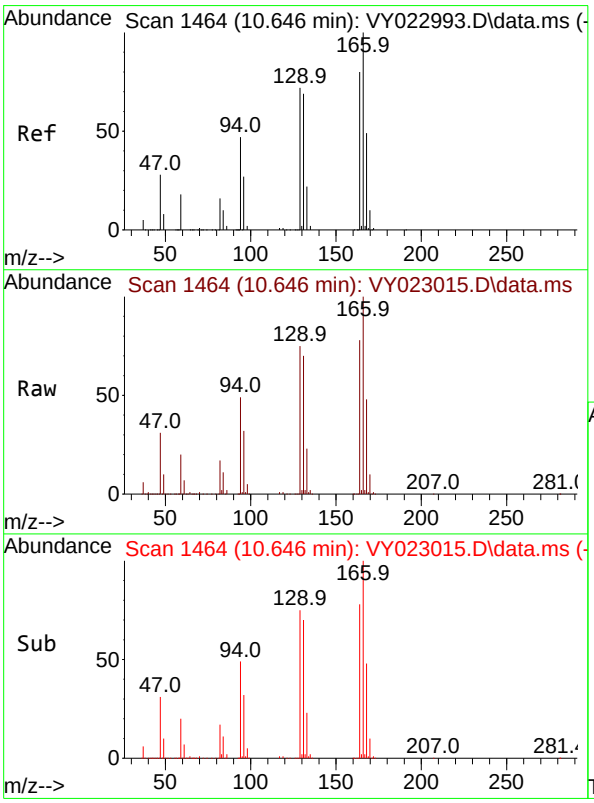
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 646276

Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.3	66.5
119	31.4	25.8	38.8

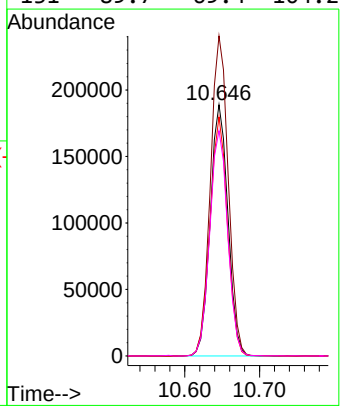


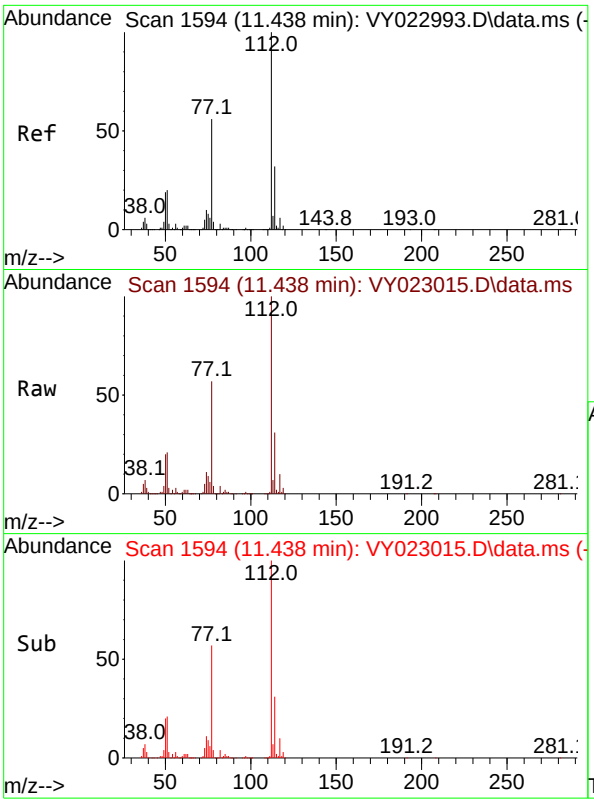


#64
Tetrachloroethene
Concen: 46.956 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:164 Resp: 310183

Ion	Ratio	Lower	Upper
164	100		
166	127.4	100.2	150.2
129	95.2	71.7	107.5
131	89.7	69.4	104.2



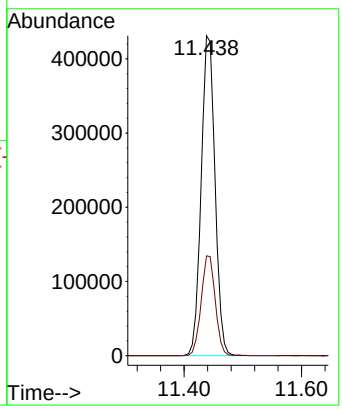


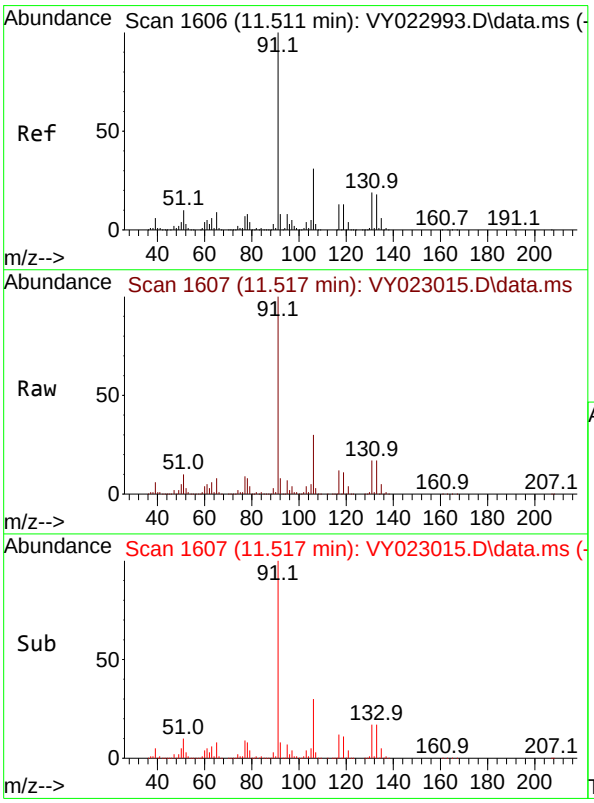
#65
Chlorobenzene
Concen: 46.305 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 706161

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.4	38.2

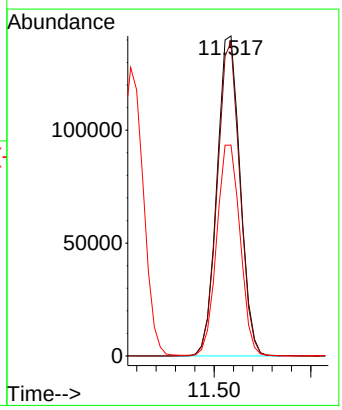


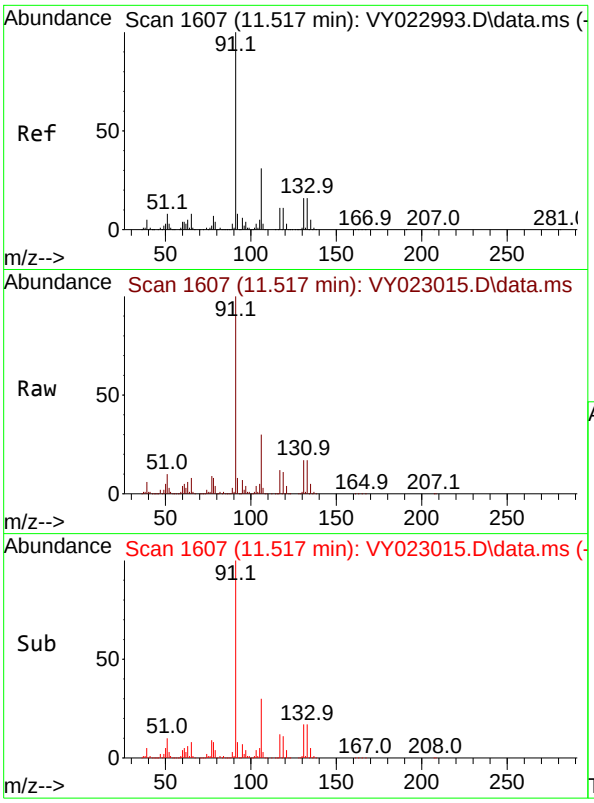


#66
1,1,1,2-Tetrachloroethane
Concen: 45.267 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:131 Resp: 235455

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.8	143.3
119	66.8	33.3	99.8



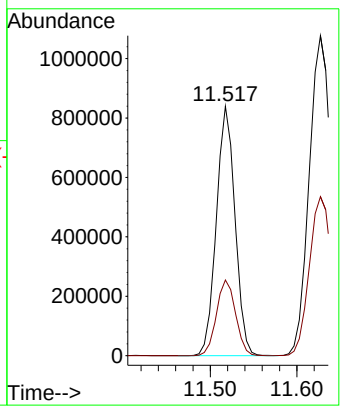


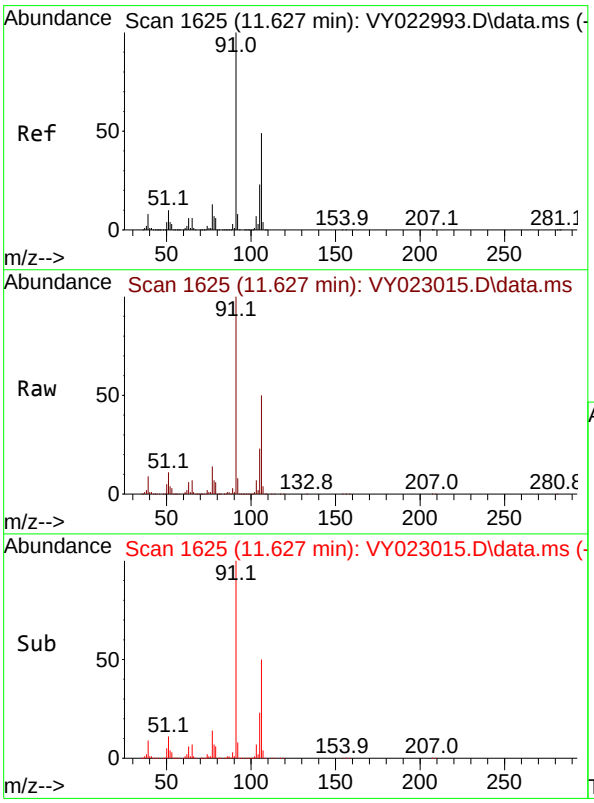
#67
Ethyl Benzene
Concen: 46.541 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1258041

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.6	37.0

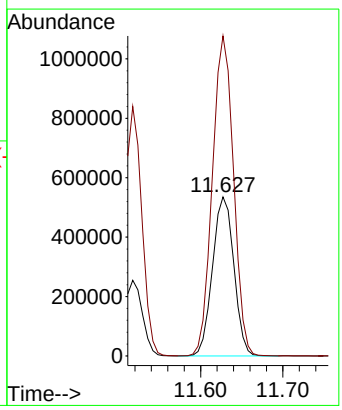


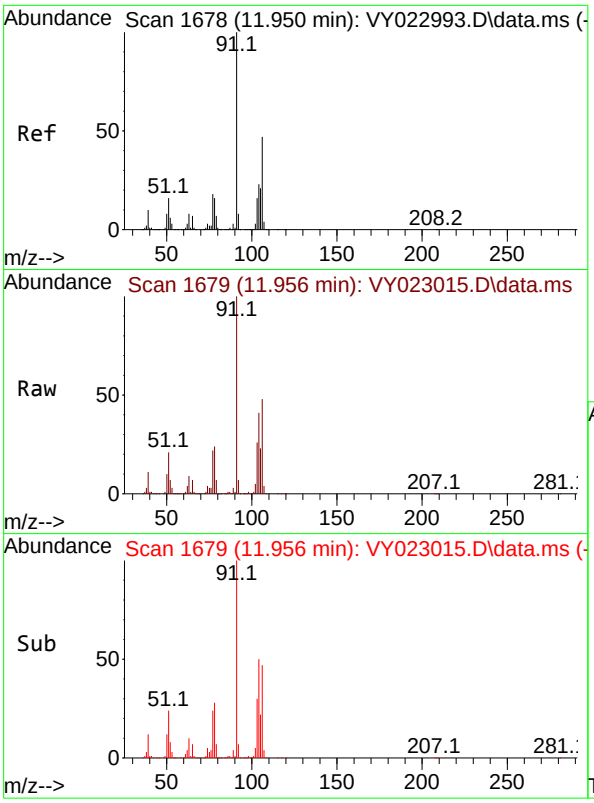


#68
m/p-Xylenes
Concen: 93.198 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:106 Resp: 966289

Ion	Ratio	Lower	Upper
106	100		
91	199.6	159.8	239.8



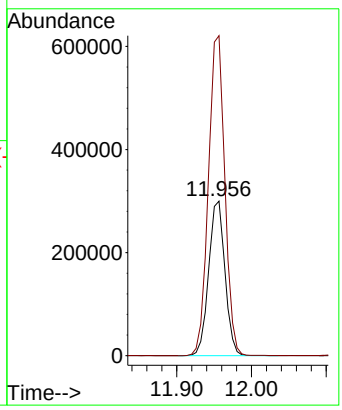


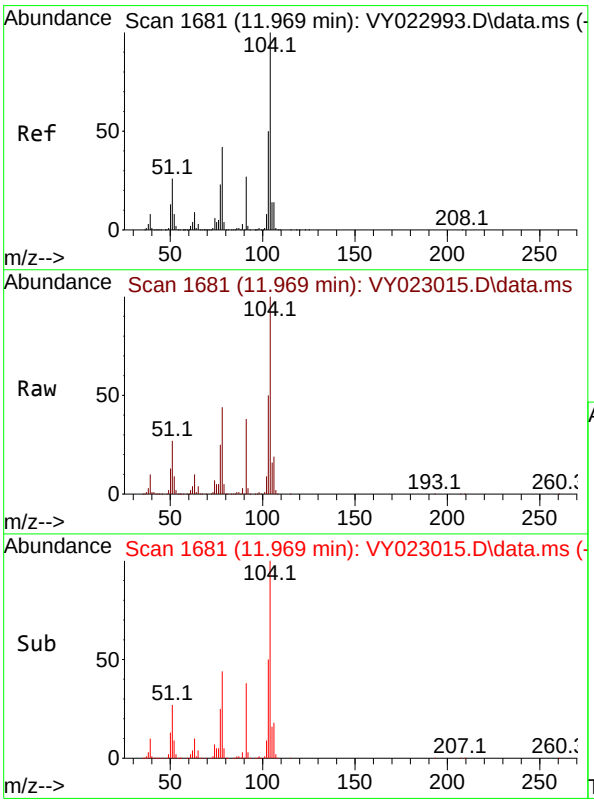
#69
o-Xylene
Concen: 47.267 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 454809

Ion	Ratio	Lower	Upper
106	100		
91	209.3	106.3	318.8

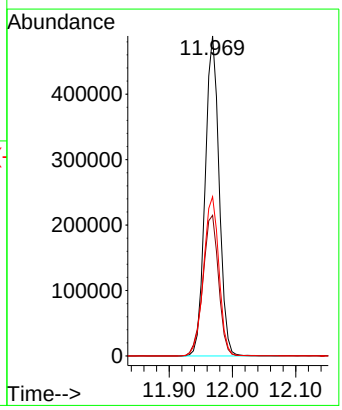


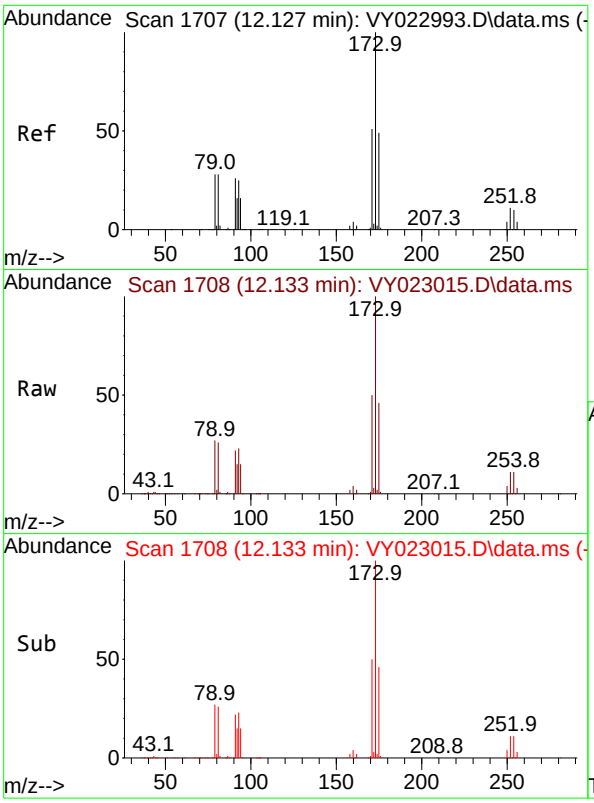


#70
Styrene
Concen: 47.820 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:104 Resp: 753693

Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.0	58.6
103	54.6	43.7	65.5



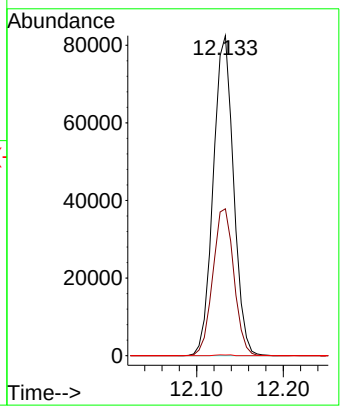


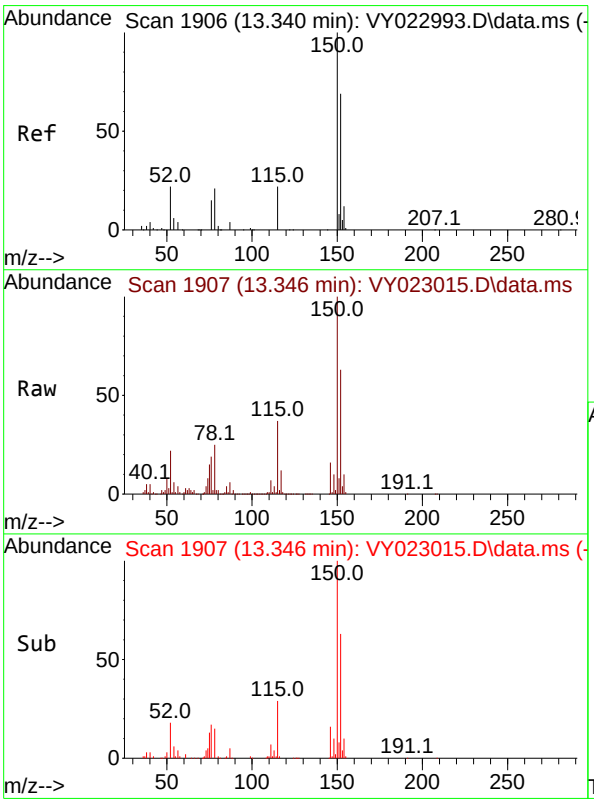
#71
Bromoform
Concen: 50.776 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 134080

Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.6	73.8
254	0.2	0.2	0.2

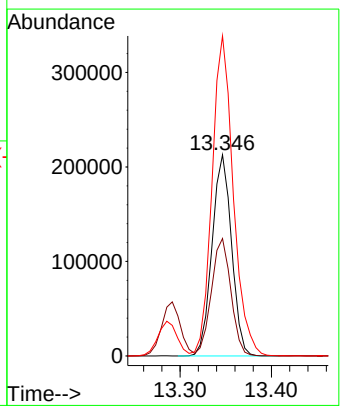


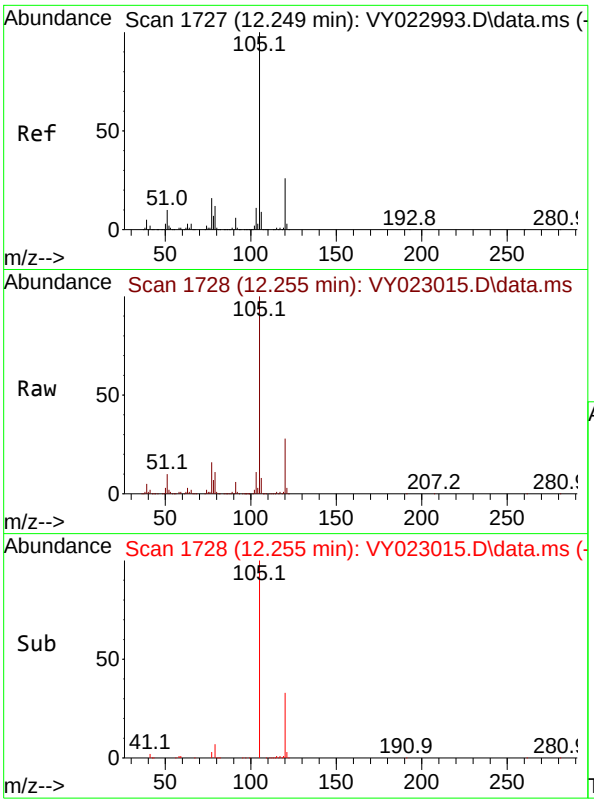


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:152 Resp: 315391

Ion	Ratio	Lower	Upper
152	100		
115	58.5	29.4	88.2
150	173.1	0.0	350.0



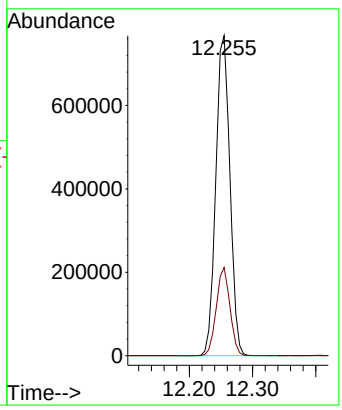


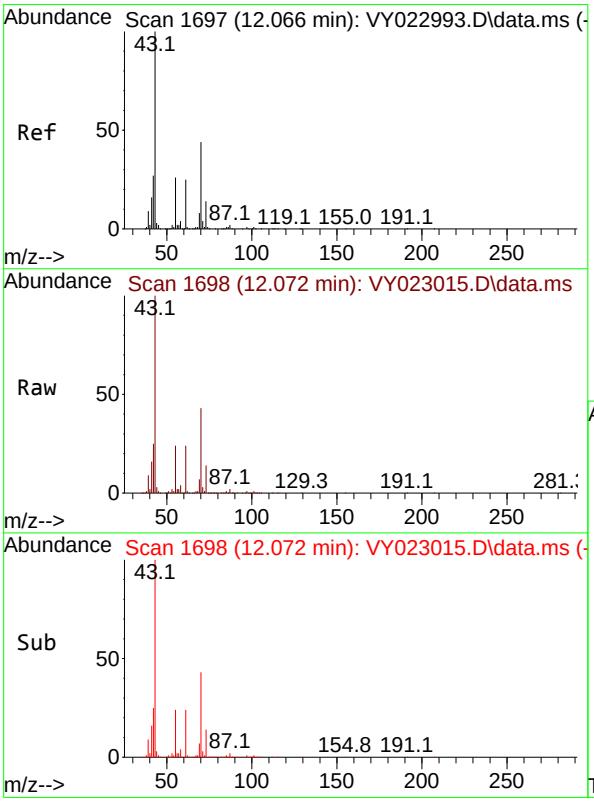
#73
Isopropylbenzene
Concen: 44.271 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1183789

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.6

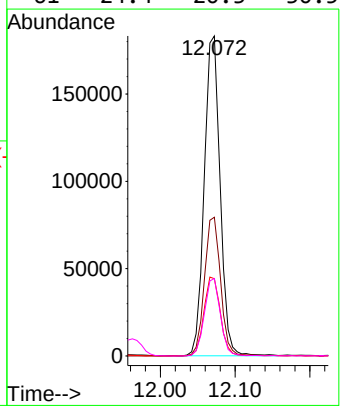


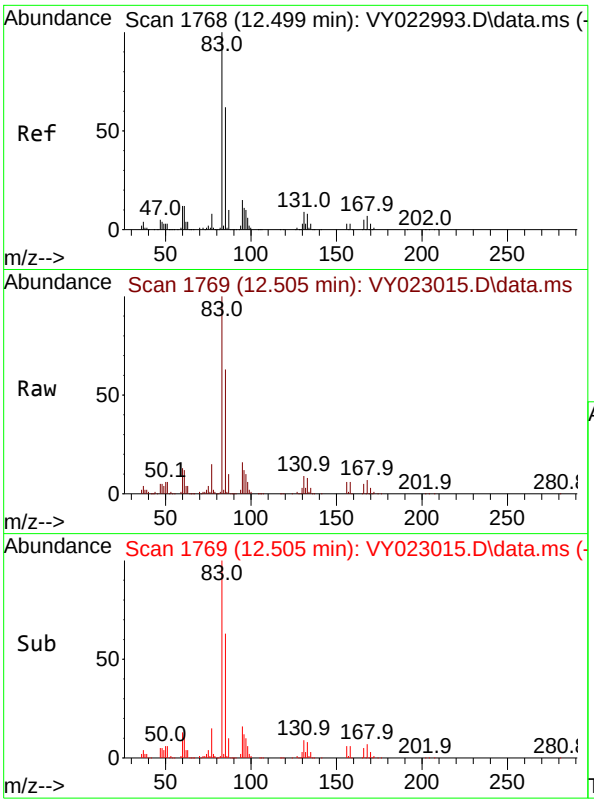


#74
N-amyl acetate
Concen: 53.395 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 43 Resp: 269180

Ion	Ratio	Lower	Upper
43	100		
70	44.1	36.2	54.2
55	25.8	20.9	31.3
61	24.4	20.3	30.5



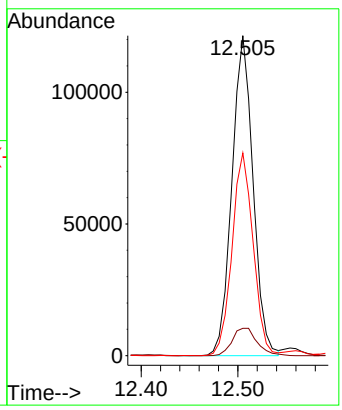


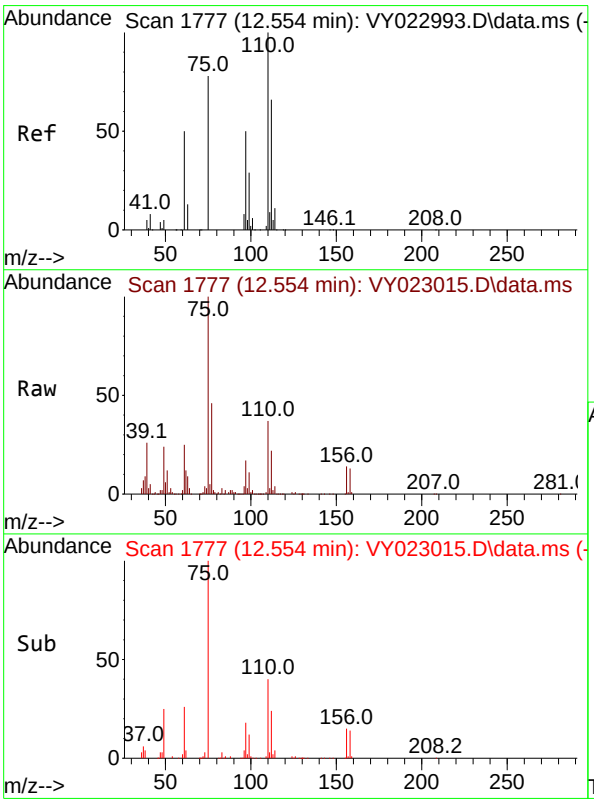
#75
1,1,2,2-Tetrachloroethane
Concen: 47.749 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 184767

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	63.4	31.9	95.7

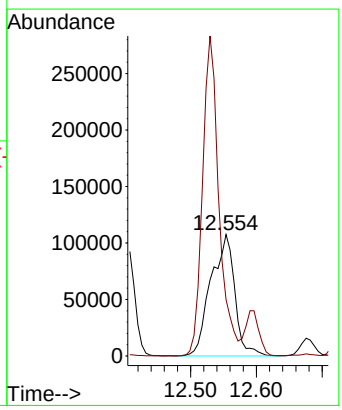


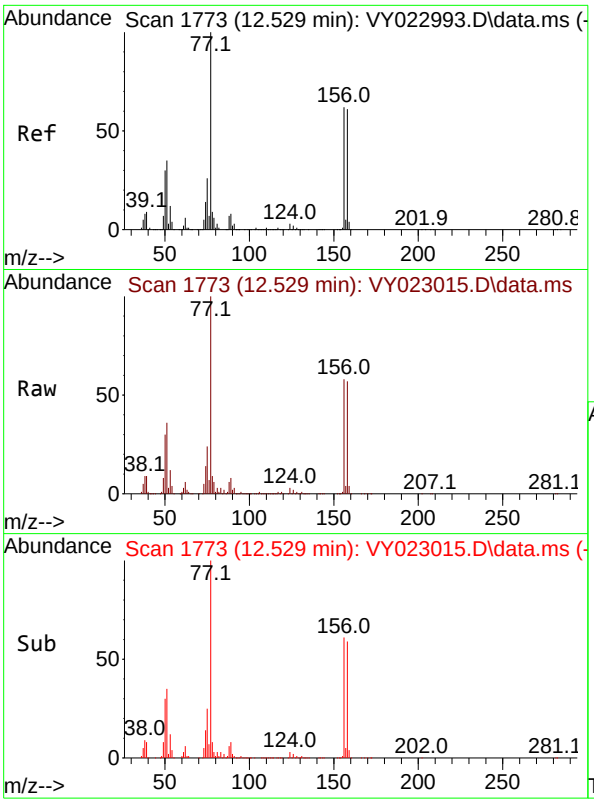


#76
1,2,3-Trichloropropane
Concen: 69.200 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 271958

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



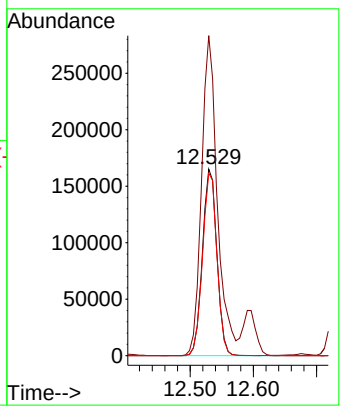


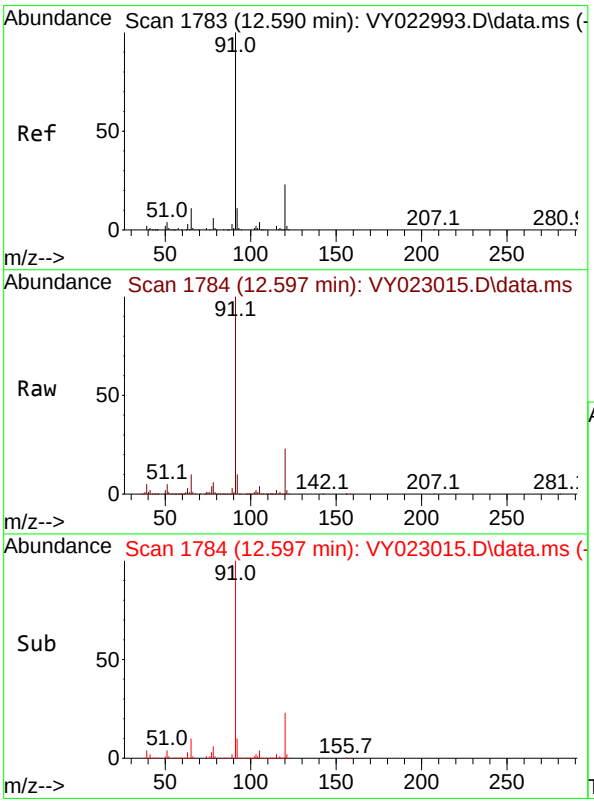
#77
Bromobenzene
Concen: 45.276 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 262574

Ion	Ratio	Lower	Upper
156	100		
77	187.4	92.0	276.1
158	97.7	48.6	145.9

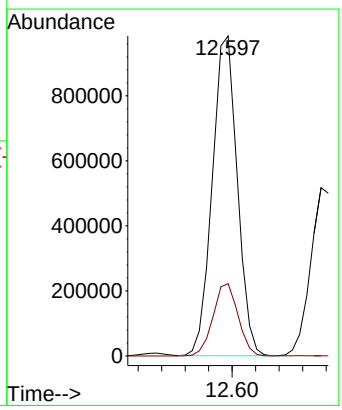


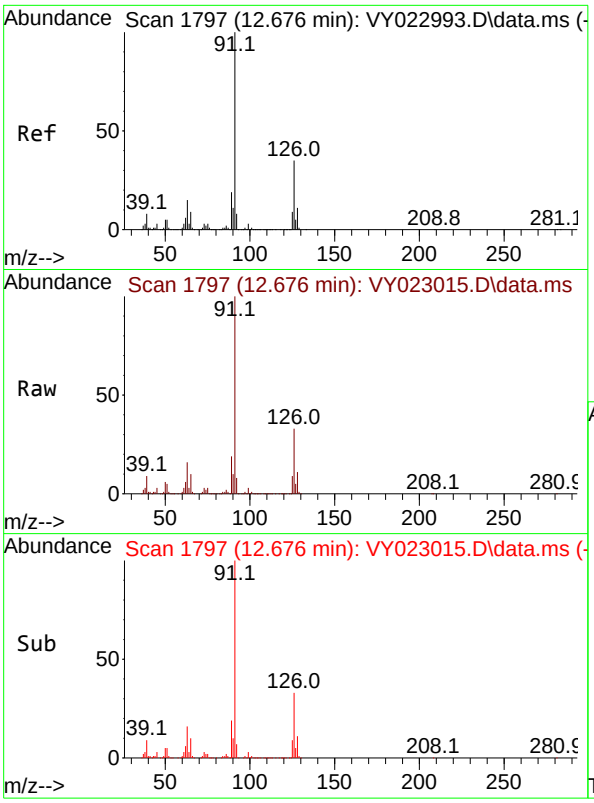


#78
n-propylbenzene
Concen: 45.698 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 1455137

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.3	33.8



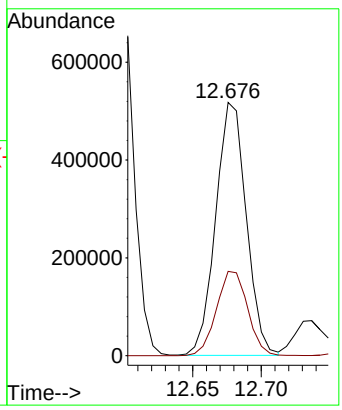


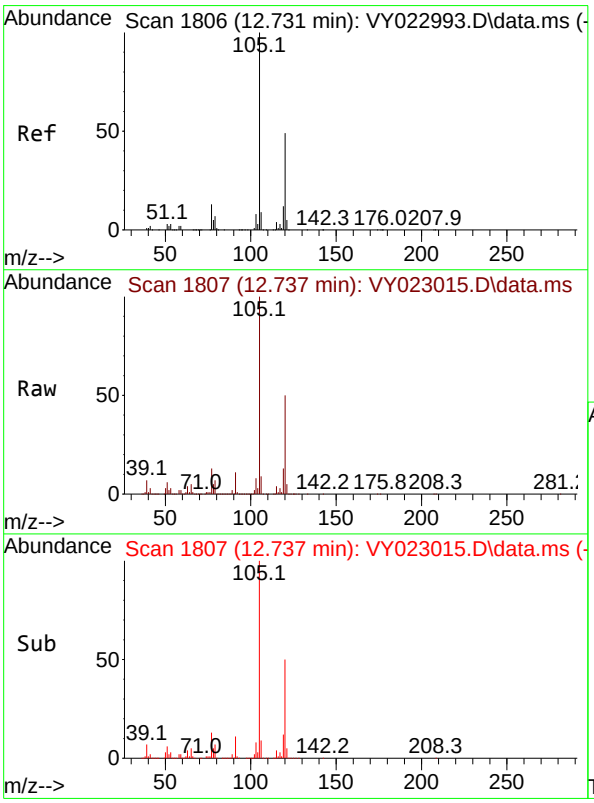
#79
2-Chlorotoluene
Concen: 44.865 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 803482

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.0	50.9

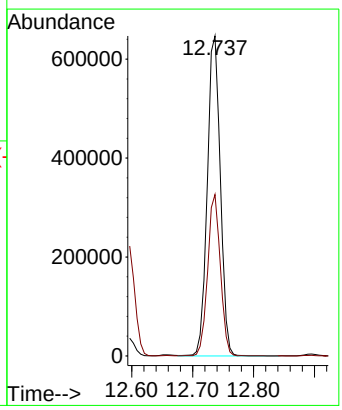


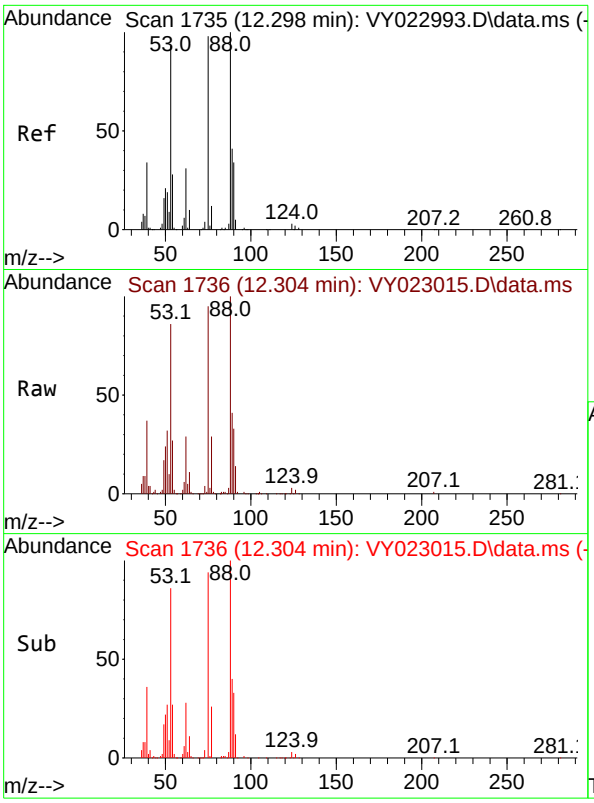


#80
1,3,5-Trimethylbenzene
Concen: 45.590 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 961475

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.6	73.8



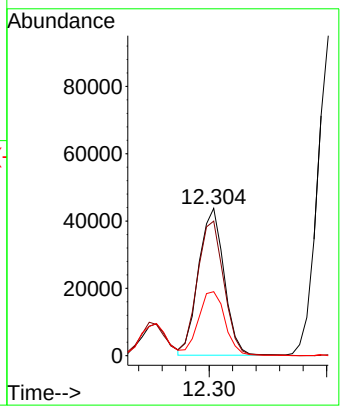


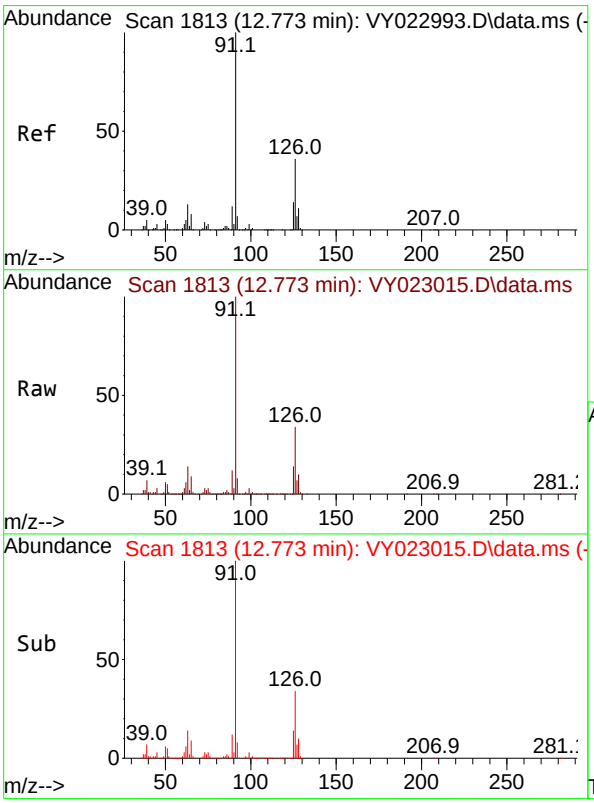
#81
trans-1,4-Dichloro-2-butene
Concen: 49.983 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 65951

Ion	Ratio	Lower	Upper
75	100		
53	95.6	76.1	114.1
89	46.0	36.1	54.1

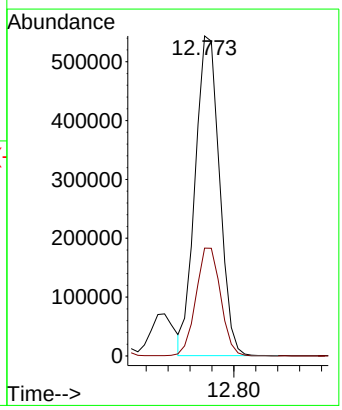


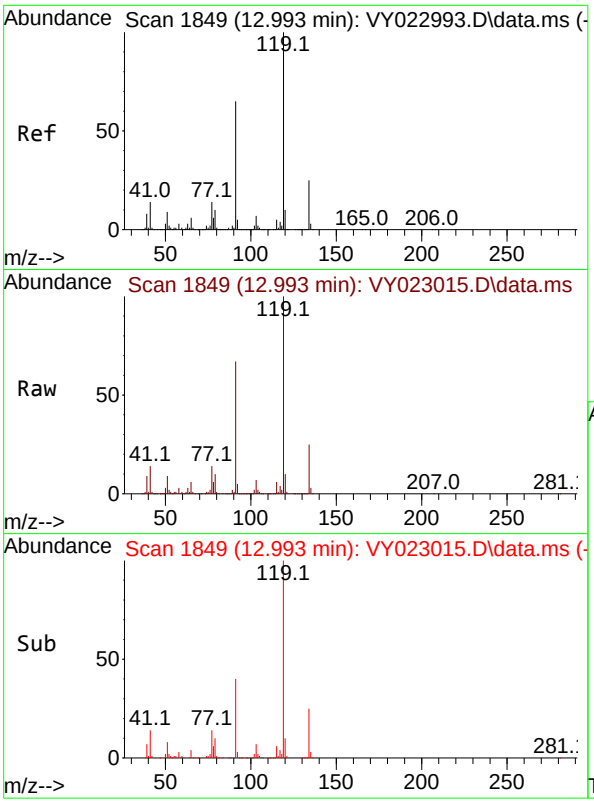


#82
4-Chlorotoluene
Concen: 46.371 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 91 Resp: 837576

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.2	51.5



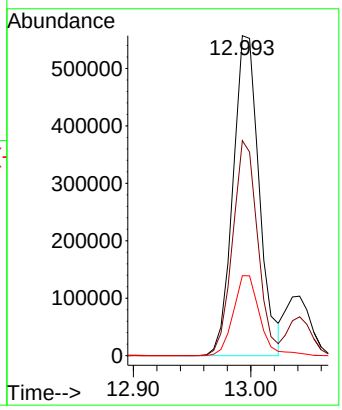


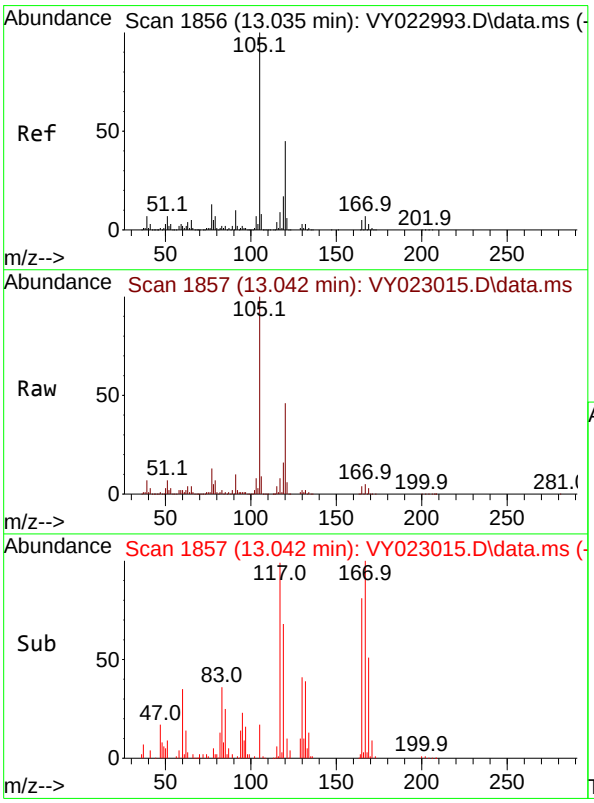
#83
tert-Butylbenzene
Concen: 45.312 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 863185

Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.0	96.2
134	25.4	12.6	37.6

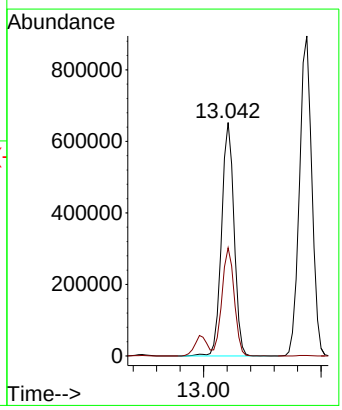


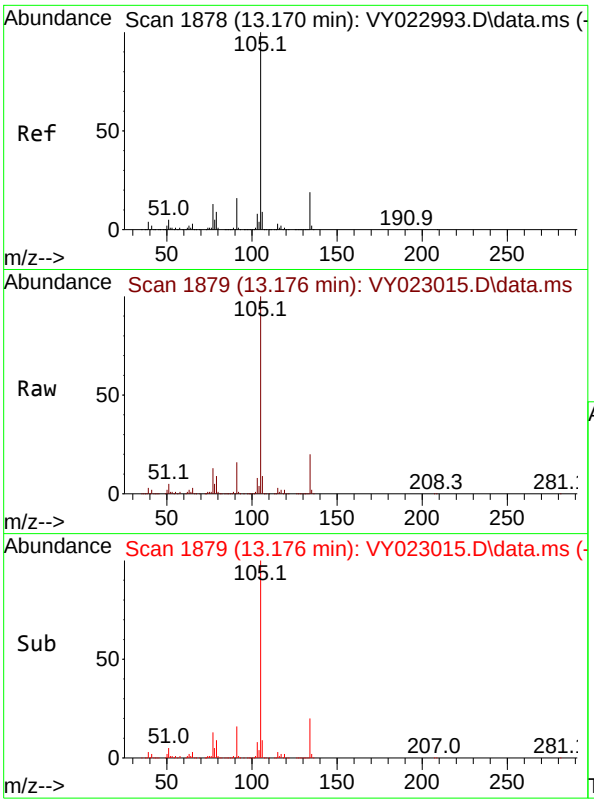


#84
1,2,4-Trimethylbenzene
Concen: 46.371 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:105 Resp: 962658

Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.9	68.8



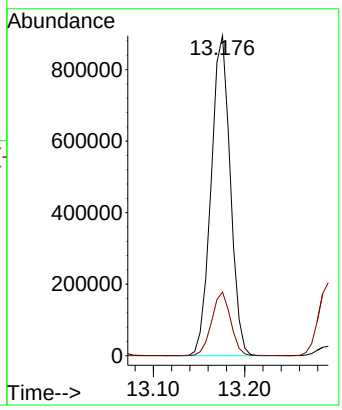


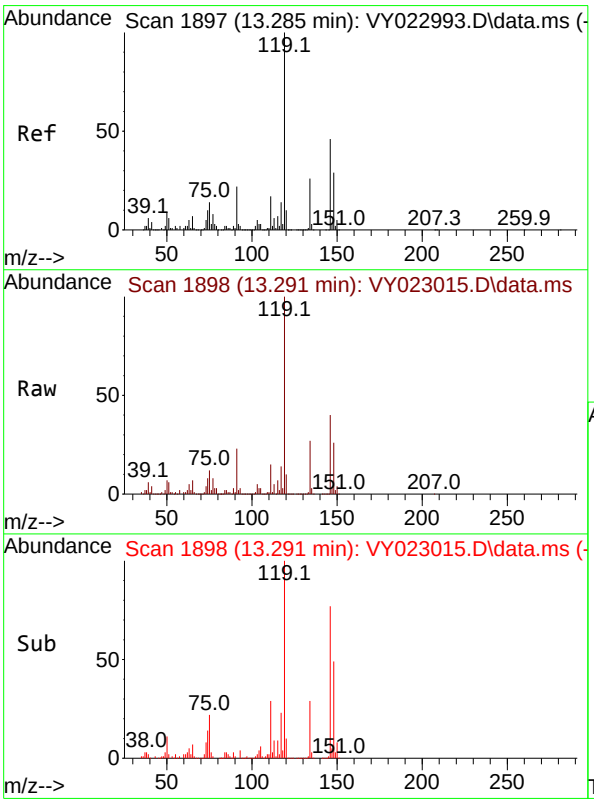
#85
sec-Butylbenzene
Concen: 45.684 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1304191

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

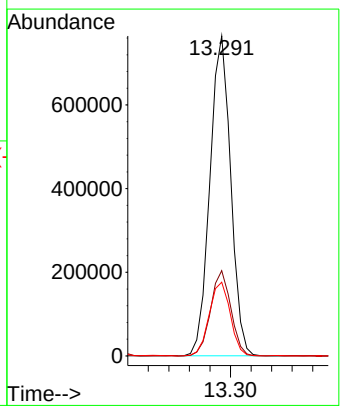


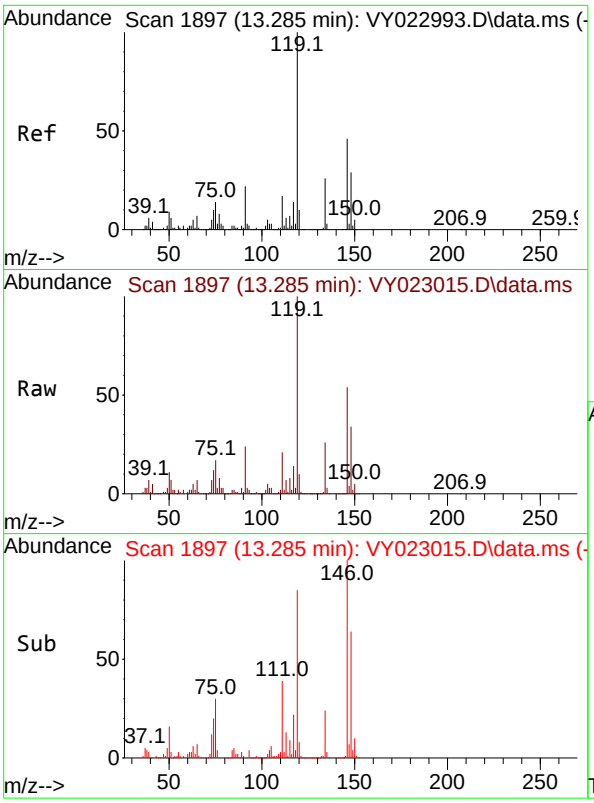


#86
p-Isopropyltoluene
Concen: 46.286 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:119 Resp: 1073149

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.1	39.1
91	23.4	11.4	34.1



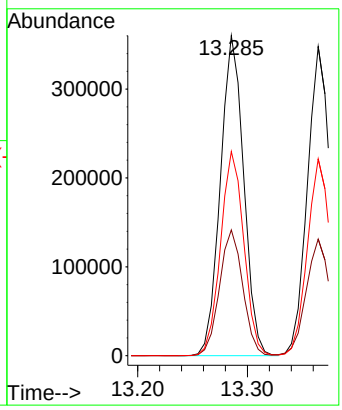


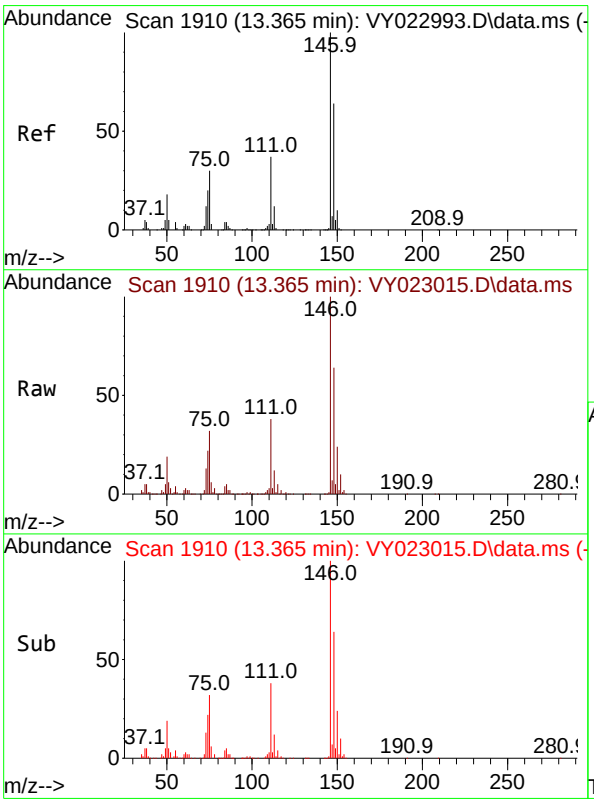
#87
1,3-Dichlorobenzene
Concen: 45.514 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 532686

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.8	59.3
148	63.7	31.6	94.8

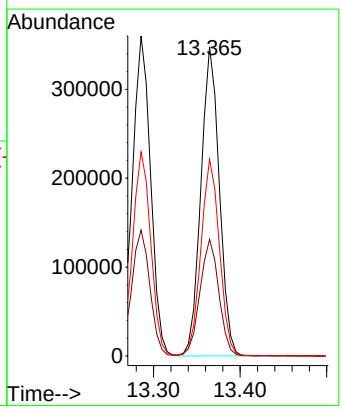


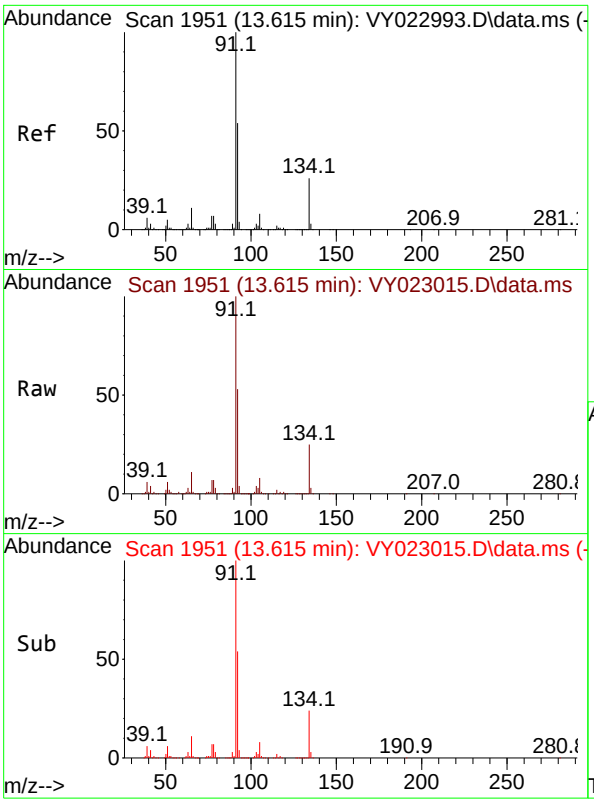


#88
1,4-Dichlorobenzene
Concen: 45.391 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:146 Resp: 513938

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.2	57.6
148	63.9	31.9	95.5



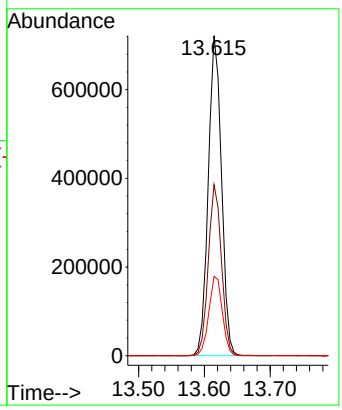


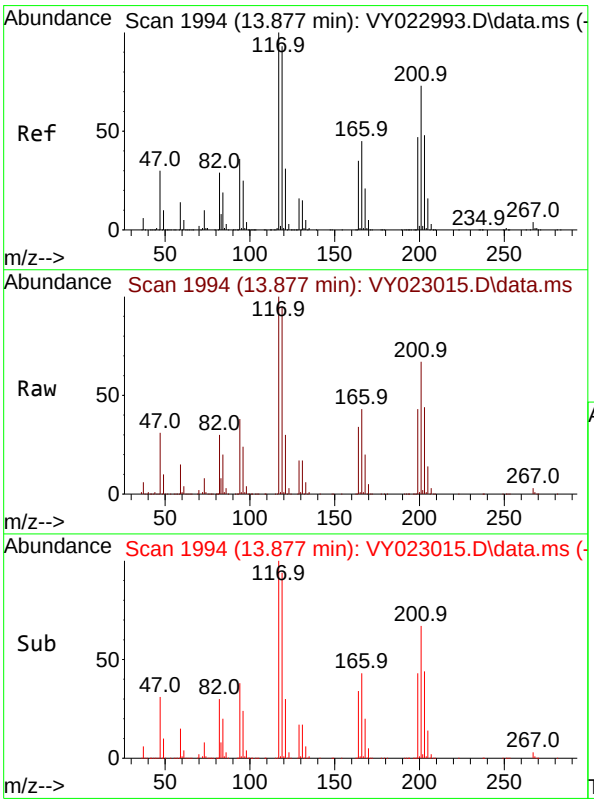
#89
n-Butylbenzene
Concen: 47.189 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1009588

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.6	79.7
134	25.3	12.6	37.6

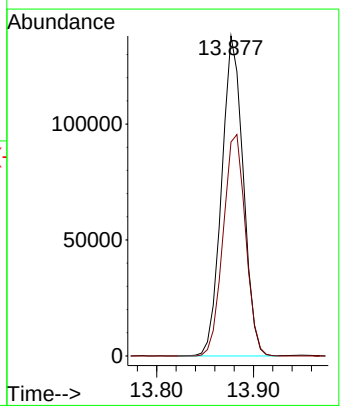


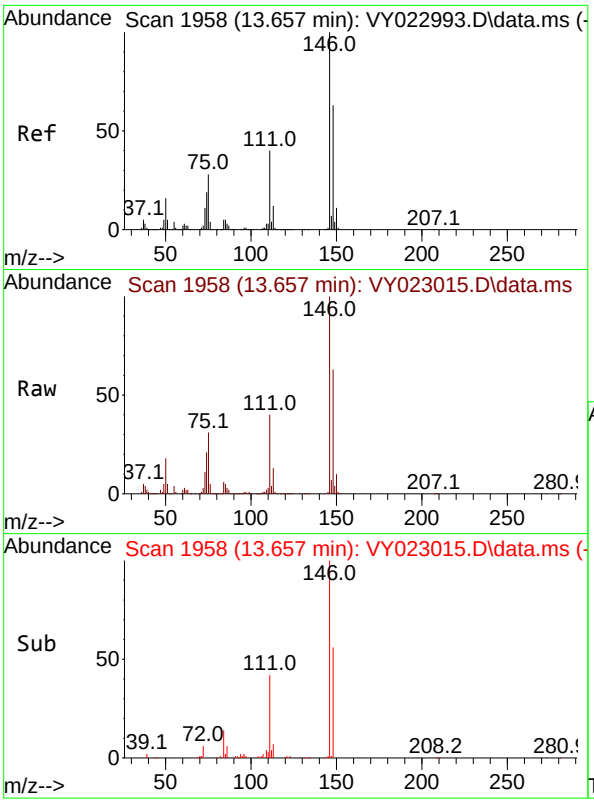


#90
Hexachloroethane
Concen: 44.550 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:117 Resp: 213851

Ion	Ratio	Lower	Upper
117	100		
201	71.9	36.1	108.5



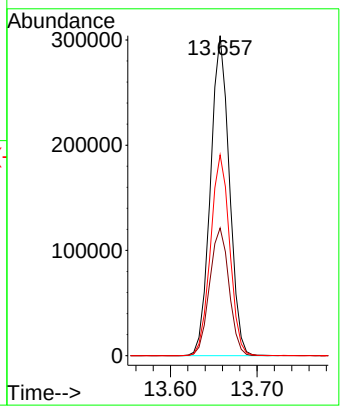


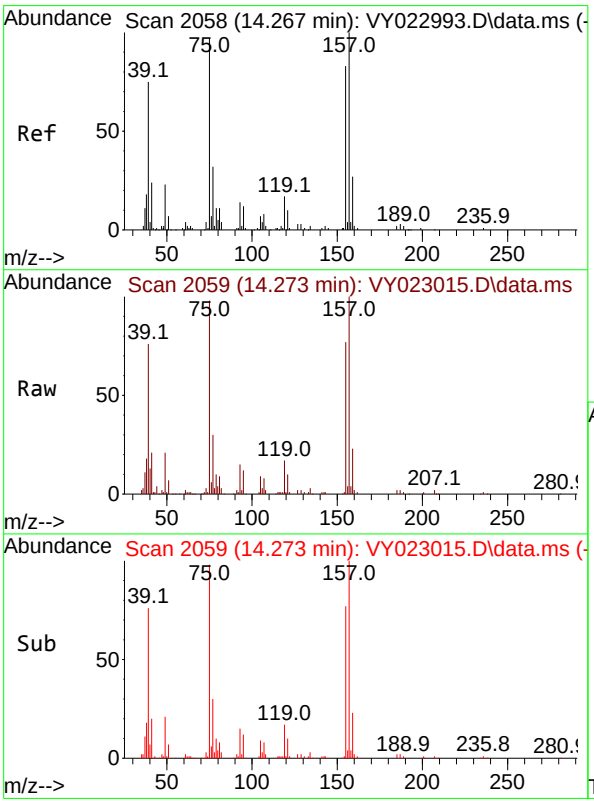
#91
1,2-Dichlorobenzene
Concen: 46.577 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 459820

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.3	61.0
148	63.7	32.0	96.2

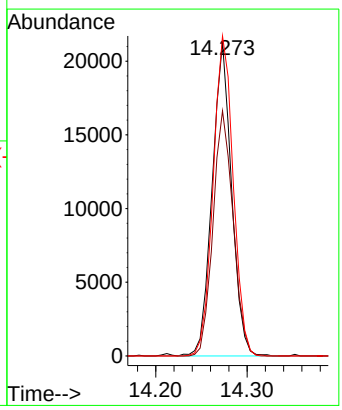


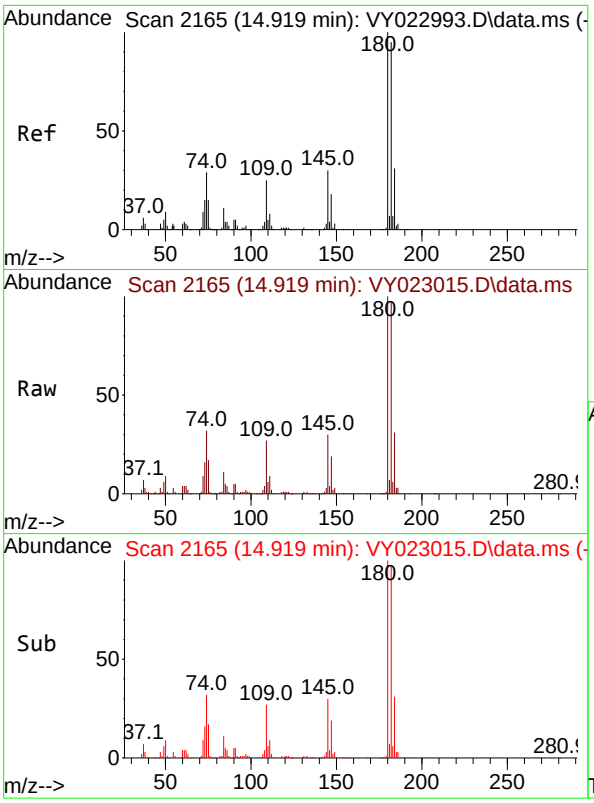


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.638 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion: 75 Resp: 31393

Ion	Ratio	Lower	Upper
75	100		
155	81.0	42.8	128.3
157	105.8	54.3	162.9



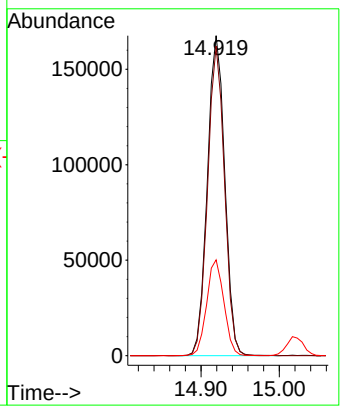


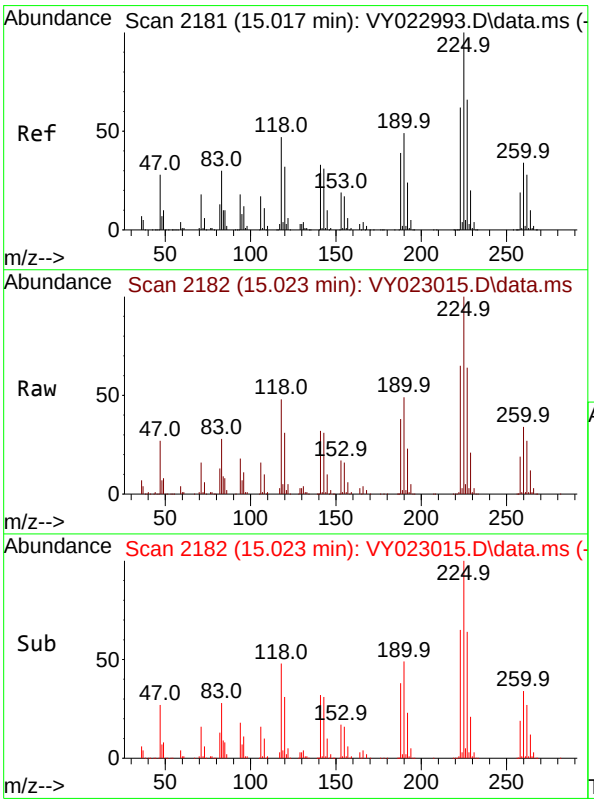
#93
1,2,4-Trichlorobenzene
Concen: 49.693 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 258596

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.5	142.5
145	29.7	14.9	44.9

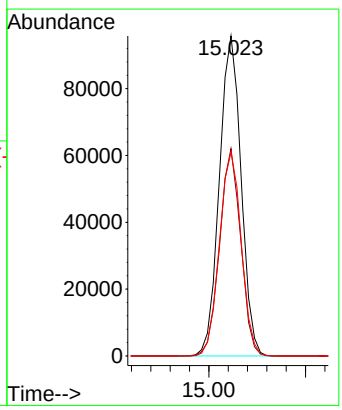


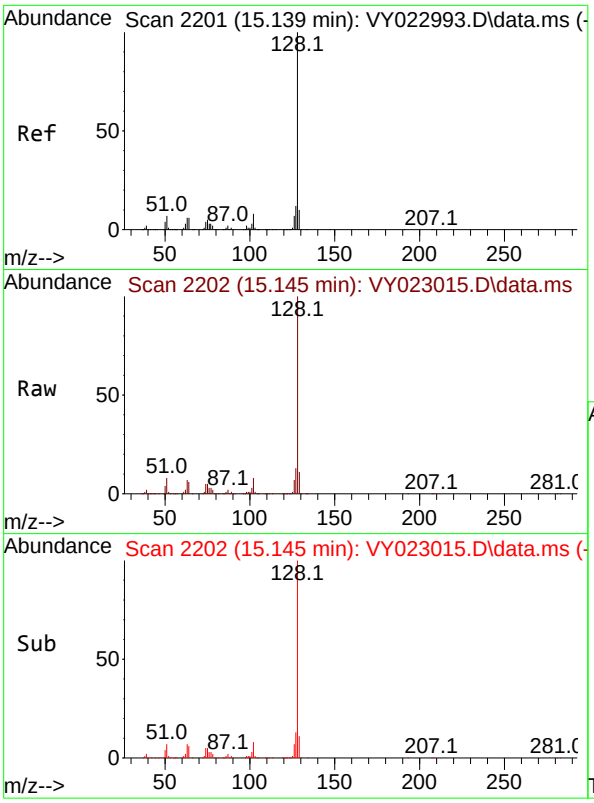


#94
Hexachlorobutadiene
Concen: 45.491 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:225 Resp: 149247

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.0
227	63.8	32.1	96.5



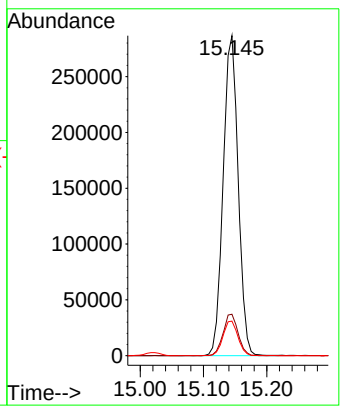


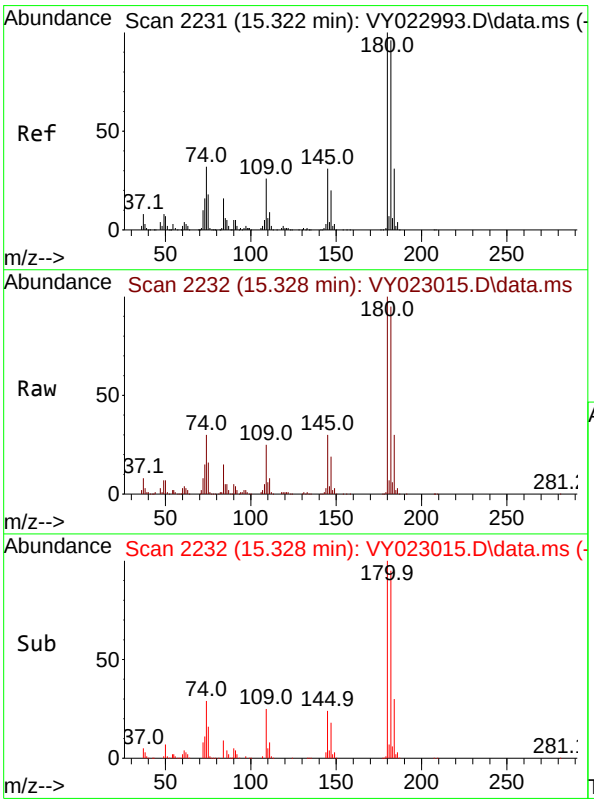
#95
Naphthalene
Concen: 56.375 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 470535

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.8	8.6	12.8

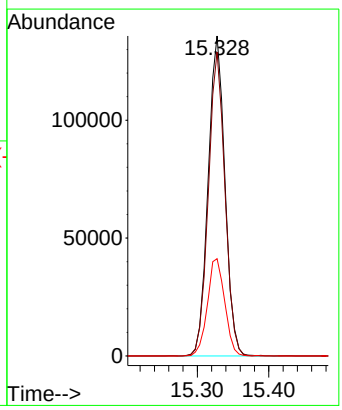




#96
1,2,3-Trichlorobenzene
Concen: 51.312 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023015.D
Acq: 21 Jul 2025 10:08

Tgt Ion:180 Resp: 220477

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.3	142.0
145	31.4	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	417337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	691452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	586317	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	283751	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	219889	52.047	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.100%			
35) Dibromofluoromethane	7.634	113	210938	48.092	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.180%			
50) Toluene-d8	10.103	98	827118	47.553	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.100%			
62) 4-Bromofluorobenzene	12.401	95	258332	47.182	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	70825	19.987	ug/l	96
3) Chloromethane	2.068	50	133065	22.084	ug/l	99
4) Vinyl Chloride	2.202	62	162134	21.239	ug/l	99
5) Bromomethane	2.592	94	134057	24.332	ug/l	99
6) Chloroethane	2.732	64	112975	22.159	ug/l	99
7) Trichlorofluoromethane	3.056	101	187057	21.109	ug/l	95
8) Diethyl Ether	3.452	74	50505	21.776	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	94675	20.338	ug/l	99
10) Methyl Iodide	4.007	142	86654	17.919	ug/l	99
11) Tert butyl alcohol	4.860	59	29742	116.404	ug/l	100
12) 1,1-Dichloroethene	3.787	96	89671	20.221	ug/l	97
13) Acrolein	3.653	56	18665	155.460	ug/l	95
14) Allyl chloride	4.378	41	139366	20.628	ug/l	99
15) Acrylonitrile	5.055	53	103105	117.367	ug/l	100
16) Acetone	3.872	43	113819	148.622	ug/l	100
17) Carbon Disulfide	4.104	76	280632	20.880	ug/l	99
18) Methyl Acetate	4.385	43	57135	22.037	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	233203	21.924	ug/l	98
20) Methylene Chloride	4.616	84	135775	20.247	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	101510	20.564	ug/l	97
22) Diisopropyl ether	6.018	45	309021	21.560	ug/l	98
23) Vinyl Acetate	5.957	43	826708	114.473	ug/l	100
24) 1,1-Dichloroethane	5.915	63	186822	20.752	ug/l	99
25) 2-Butanone	6.890	43	143739	130.833	ug/l	99
26) 2,2-Dichloropropane	6.884	77	161660	20.489	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	116165	20.419	ug/l	99
28) Bromochloromethane	7.244	49	75745	21.693	ug/l	96
29) Tetrahydrofuran	7.262	42	81464	117.116	ug/l	100
30) Chloroform	7.421	83	189111	20.824	ug/l	95
31) Cyclohexane	7.701	56	167294	19.888	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	166781	20.240	ug/l	99
36) 1,1-Dichloropropene	7.835	75	136134	19.704	ug/l	99
37) Ethyl Acetate	6.988	43	58625	22.847	ug/l	99
38) Carbon Tetrachloride	7.817	117	148433	19.775	ug/l	98
39) Methylcyclohexane	9.109	83	167760	18.760	ug/l	98
40) Benzene	8.079	78	418020	20.095	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.262	41	82816	59.247	ug/l	#	31
42) 1,2-Dichloroethane	8.158	62	111901	21.622	ug/l		99
43) Isopropyl Acetate	8.195	43	114470	22.459	ug/l	#	86
44) Trichloroethene	8.865	130	103444	19.361	ug/l		97
45) 1,2-Dichloropropane	9.140	63	98991	20.378	ug/l		97
46) Dibromomethane	9.231	93	54493	21.702	ug/l		99
47) Bromodichloromethane	9.420	83	142773	20.570	ug/l		98
48) Methyl methacrylate	9.219	41	54690	22.225	ug/l		99
49) 1,4-Dioxane	9.225	88	12190	460.562	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	296911	114.770	ug/l		99
52) Toluene	10.170	92	258346	19.975	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	123664	20.756	ug/l		95
54) cis-1,3-Dichloropropene	9.853	75	150566	20.967	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	70181	21.265	ug/l		96
56) Ethyl methacrylate	10.438	69	88261	21.424	ug/l		98
57) 1,3-Dichloropropane	10.713	76	121849	21.373	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	197528	97.947	ug/l		98
59) 2-Hexanone	10.761	43	204354	120.174	ug/l		99
60) Dibromochloromethane	10.908	129	90494	20.940	ug/l		98
61) 1,2-Dibromoethane	11.011	107	64686	21.584	ug/l		98
64) Tetrachloroethene	10.646	164	115530	19.278	ug/l		94
65) Chlorobenzene	11.438	112	276316	19.972	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	92315	19.563	ug/l		99
67) Ethyl Benzene	11.517	91	472954	19.286	ug/l		100
68) m/p-Xylenes	11.627	106	365243	38.830	ug/l		99
69) o-Xylene	11.950	106	169844	19.457	ug/l		100
70) Styrene	11.969	104	276934	19.367	ug/l		99
71) Bromoform	12.133	173	51038	21.305	ug/l	#	99
73) Isopropylbenzene	12.255	105	447600	18.606	ug/l		99
74) N-amyl acetate	12.066	43	95827	21.128	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	73937	21.238	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	101359	28.667	ug/l	#	100
77) Bromobenzene	12.529	156	100323	19.228	ug/l		100
78) n-propylbenzene	12.590	91	545094	19.027	ug/l		99
79) 2-Chlorotoluene	12.676	91	306395	19.016	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	357988	18.868	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	24013	20.228	ug/l		98
82) 4-Chlorotoluene	12.773	91	310771	19.124	ug/l		99
83) tert-Butylbenzene	12.993	119	319915	18.666	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	351737	18.832	ug/l		99
85) sec-Butylbenzene	13.170	105	480603	18.712	ug/l		100
86) p-Isopropyltoluene	13.292	119	392976	18.839	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	200360	19.028	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	199817	19.616	ug/l		99
89) n-Butylbenzene	13.615	91	366638	19.048	ug/l		99
90) Hexachloroethane	13.877	117	80981	18.751	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	169075	19.036	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12015	23.243	ug/l		93
93) 1,2,4-Trichlorobenzene	14.919	180	93870	20.050	ug/l		99
94) Hexachlorobutadiene	15.023	225	55300	18.735	ug/l		99
95) Naphthalene	15.139	128	156400	20.828	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	79873	20.662	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

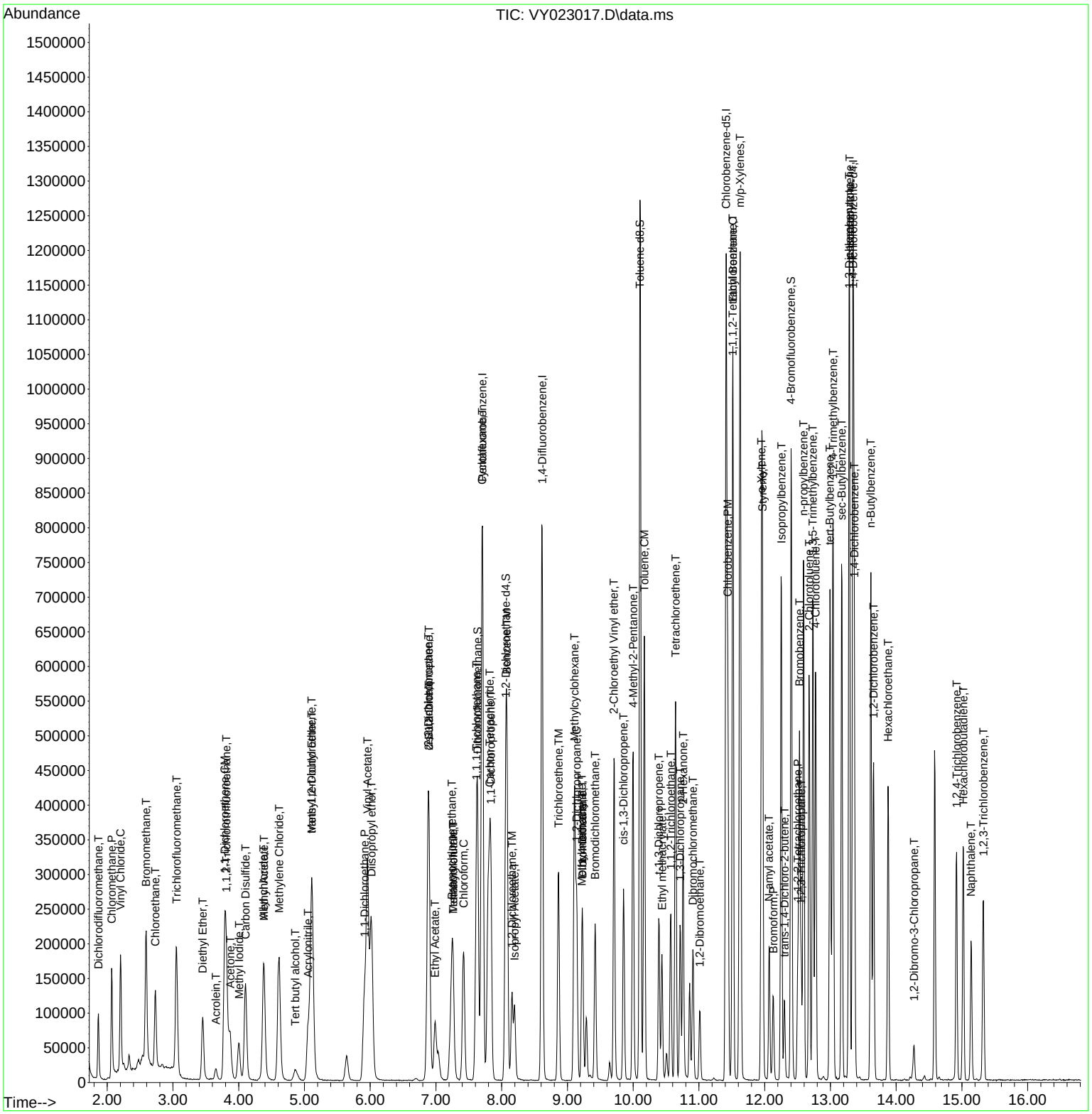
(#) = qualifier out of range (m) = manual integration (+) = signals summed

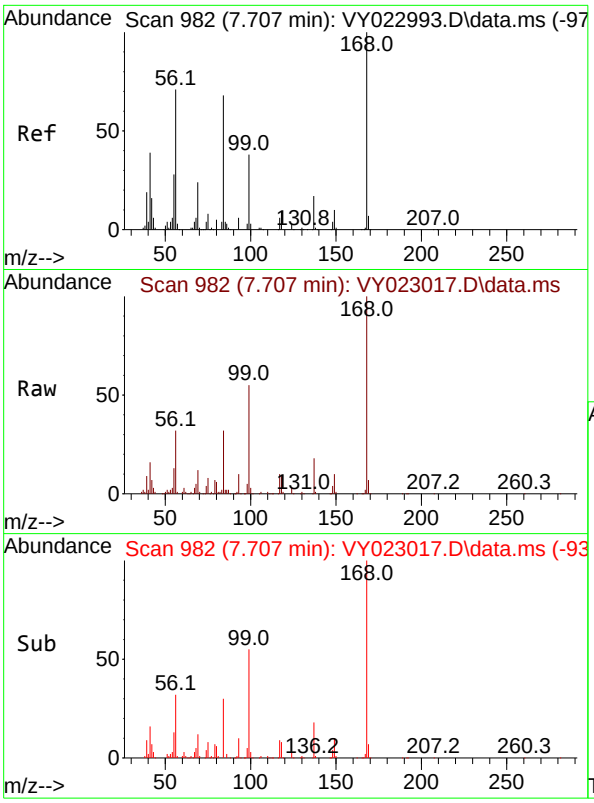
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023017.D
Acq On : 21 Jul 2025 11:13
Operator : SY/MD
Sample : VY0721SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Quant Time: Jul 22 04:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



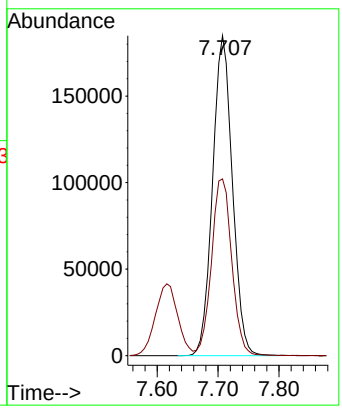


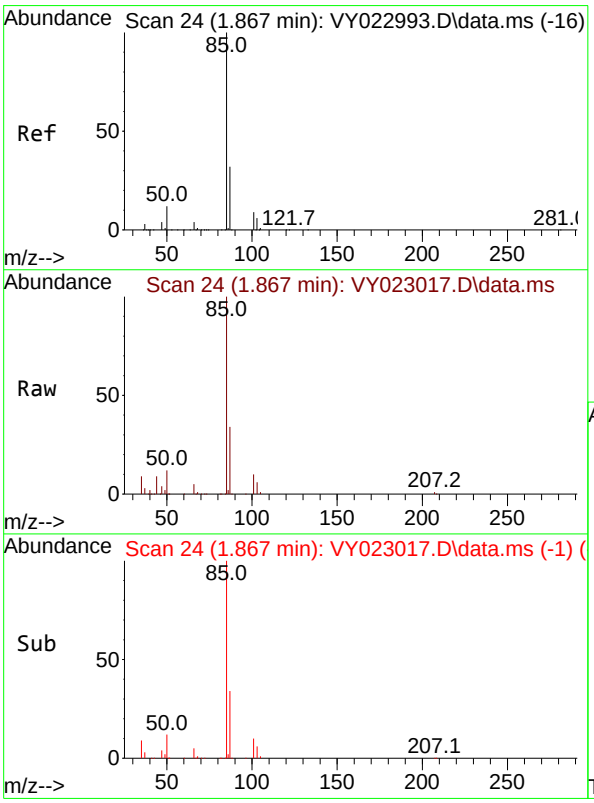
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:168 Resp: 417337

Ion	Ratio	Lower	Upper
168	100		
99	55.2	44.4	66.6

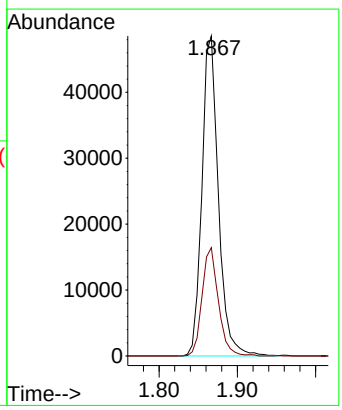


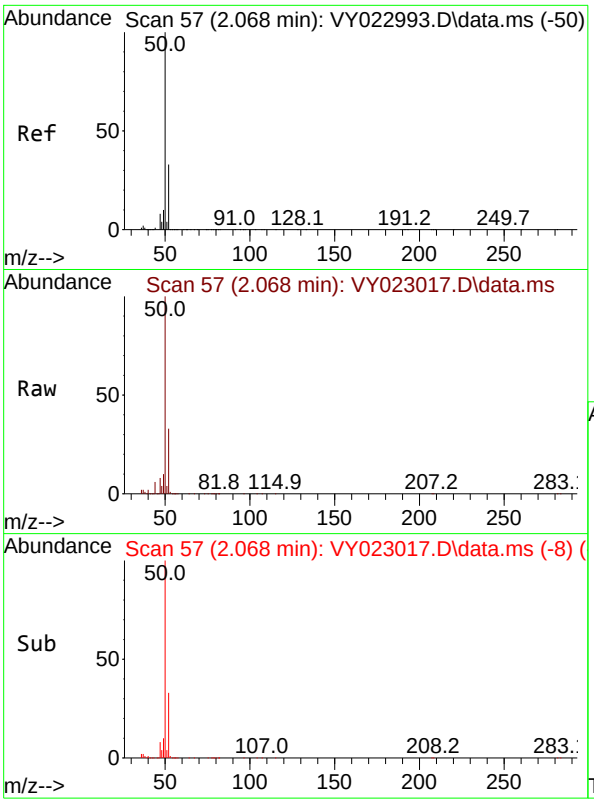


#2
Dichlorodifluoromethane
Concen: 19.987 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 85 Resp: 70825

Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.0	47.9



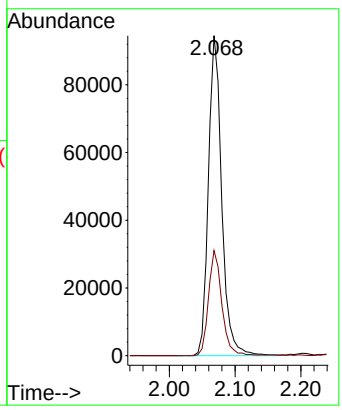


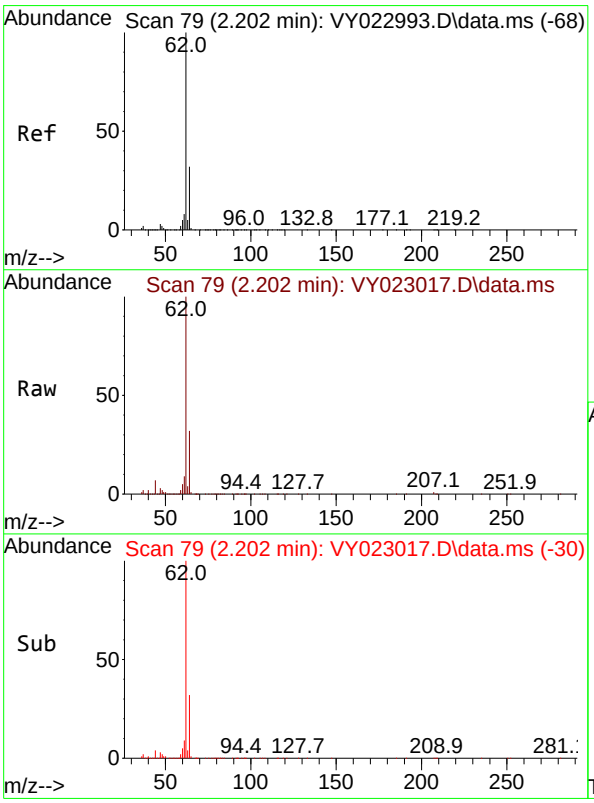
#3
Chloromethane
Concen: 22.084 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 50 Resp: 133065

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.6	39.8

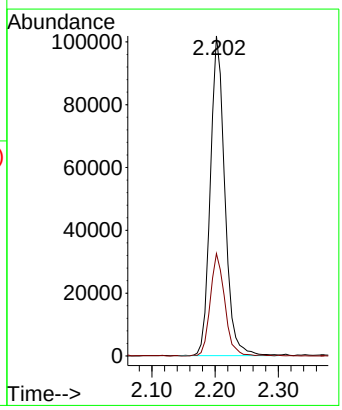


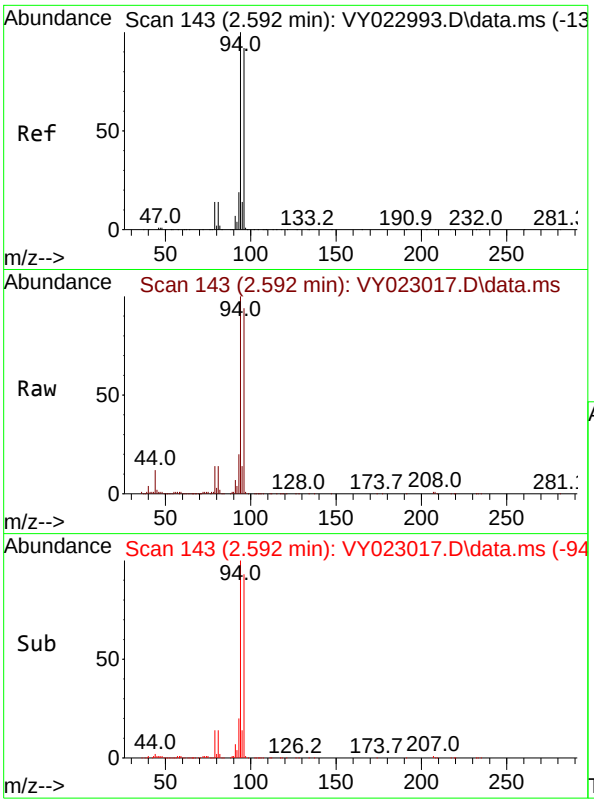


#4
Vinyl Chloride
Concen: 21.239 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 62 Resp: 162134

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.2	37.8



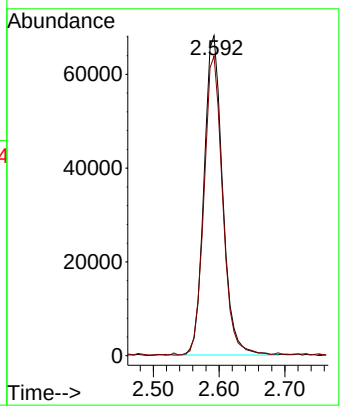


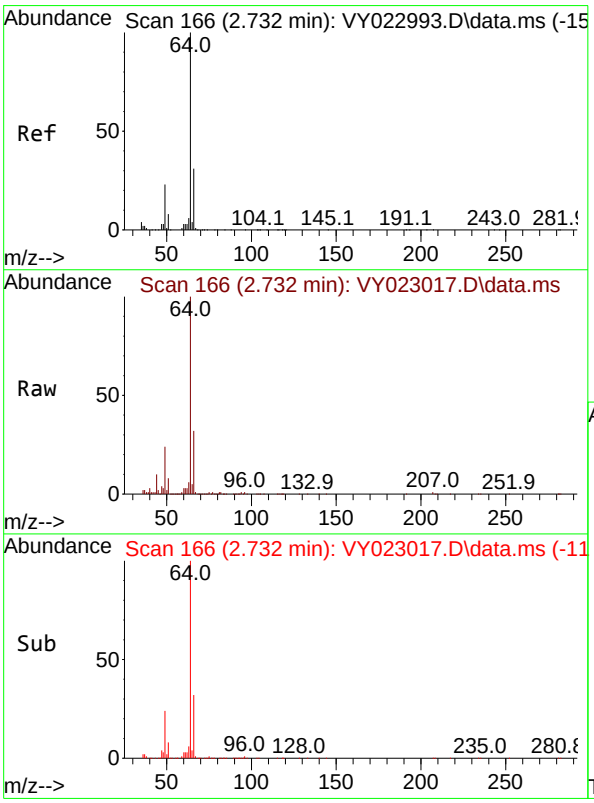
#5
Bromomethane
Concen: 24.332 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 94 Resp: 134057

Ion	Ratio	Lower	Upper
94	100		
96	93.5	73.9	110.9

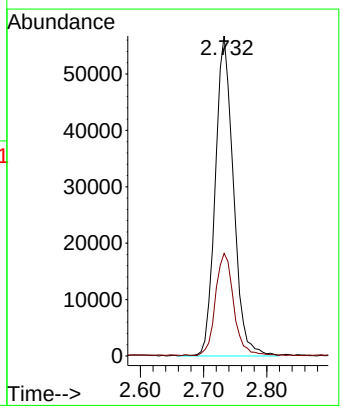


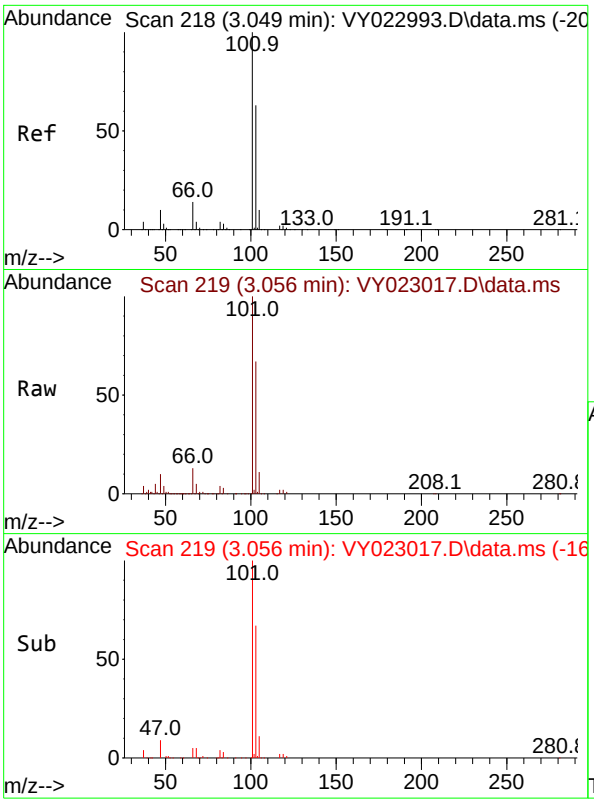


#6
Chloroethane
Concen: 22.159 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 64 Resp: 112975

Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.9	37.3



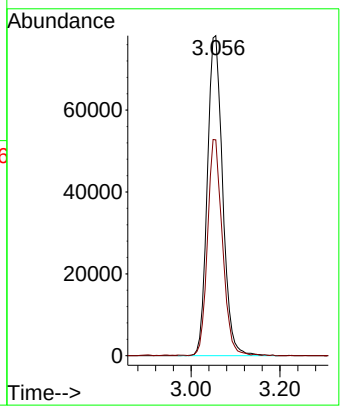


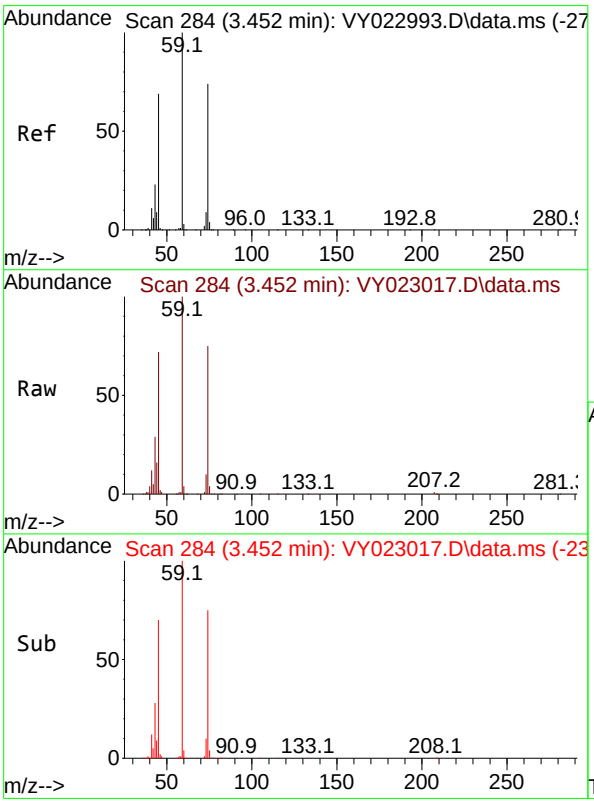
#7
Trichlorofluoromethane
Concen: 21.109 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:101 Resp: 187057

Ion	Ratio	Lower	Upper
101	100		
103	67.5	50.7	76.1

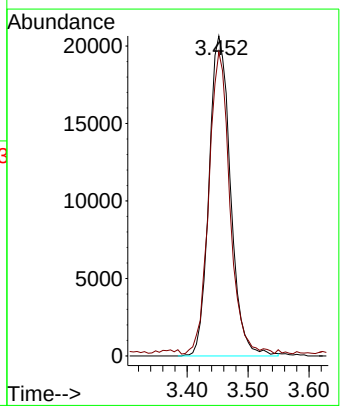


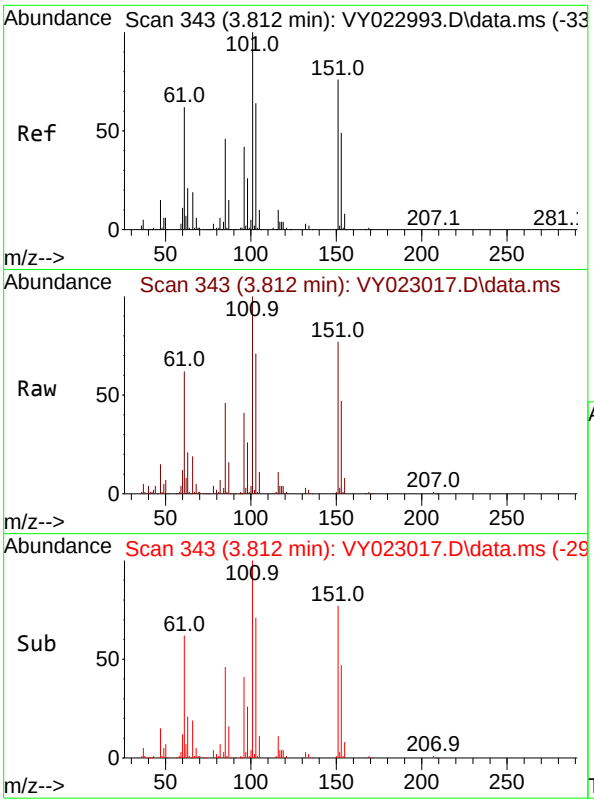


#8
Diethyl Ether
Concen: 21.776 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 74 Resp: 50505

Ion	Ratio	Lower	Upper
74	100		
45	92.6	45.1	135.2



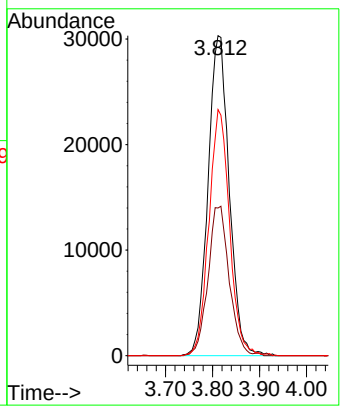


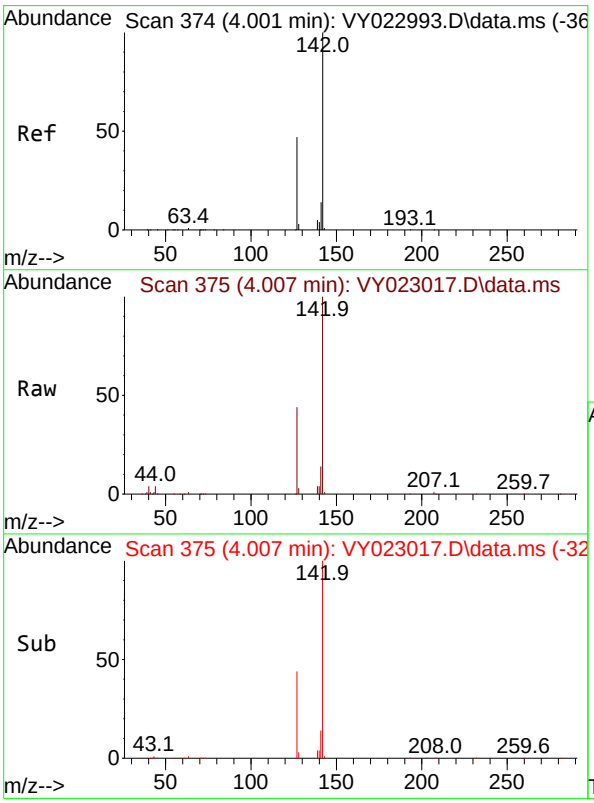
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.338 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:101 Resp: 94675

Ion	Ratio	Lower	Upper
101	100		
85	46.7	37.2	55.8
151	75.2	59.7	89.5

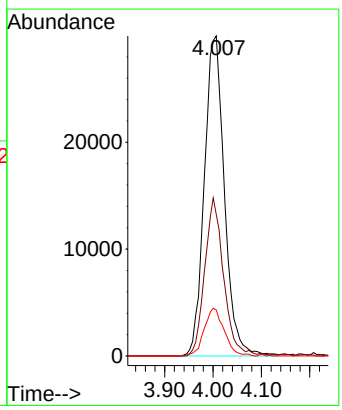


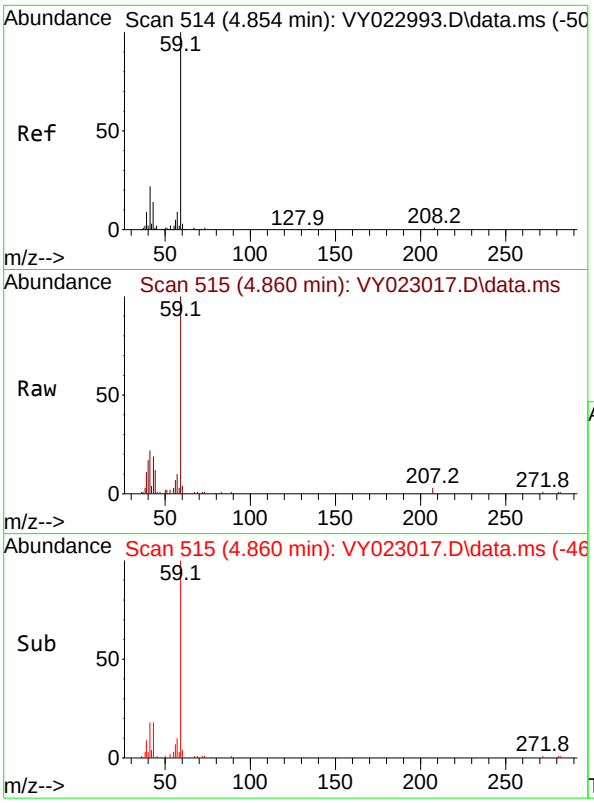


#10
Methyl Iodide
Concen: 17.919 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:142 Resp: 86654

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.0	55.6
141	14.7	11.4	17.2



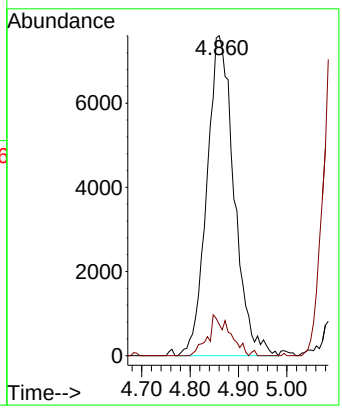


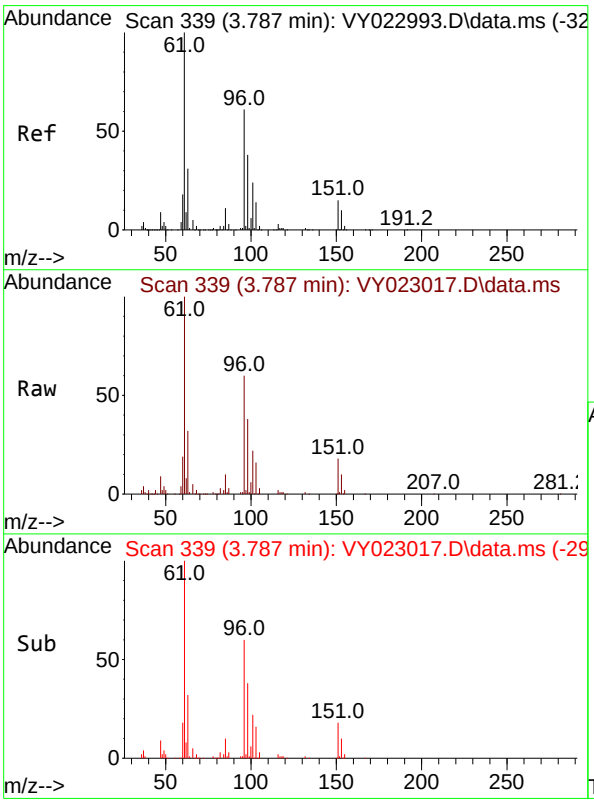
#11
Tert butyl alcohol
Concen: 116.404 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 59 Resp: 29742

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.2

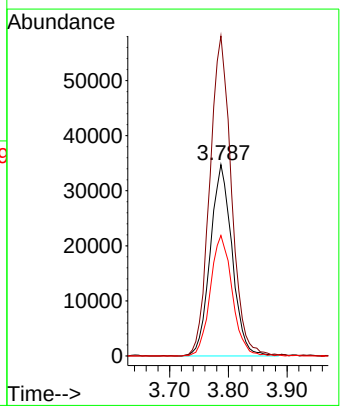


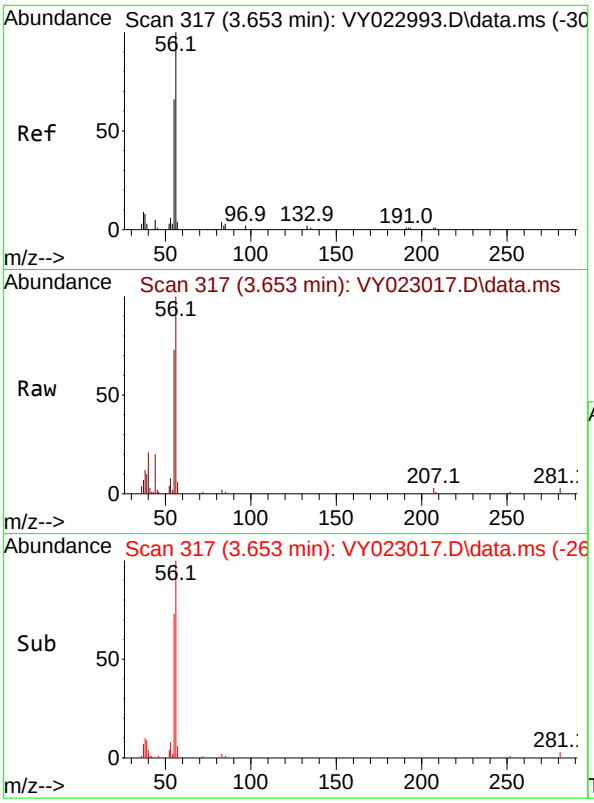


#12
1,1-Dichloroethene
Concen: 20.221 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 96 Resp: 89671

Ion	Ratio	Lower	Upper
96	100		
61	167.3	130.4	195.6
98	63.0	49.6	74.4



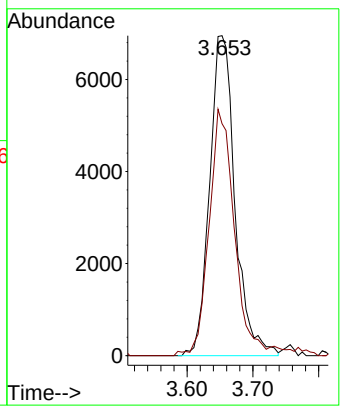


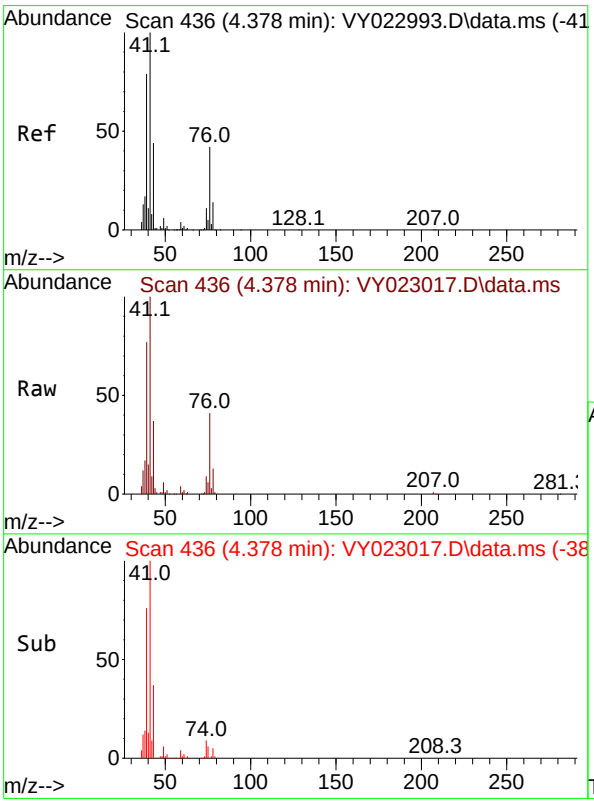
#13
Acrolein
Concen: 155.460 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 56 Resp: 18665

Ion	Ratio	Lower	Upper
56	100		
55	76.1	57.8	86.6

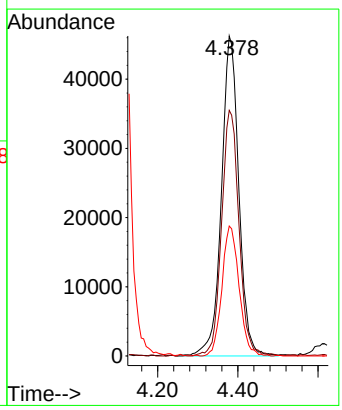


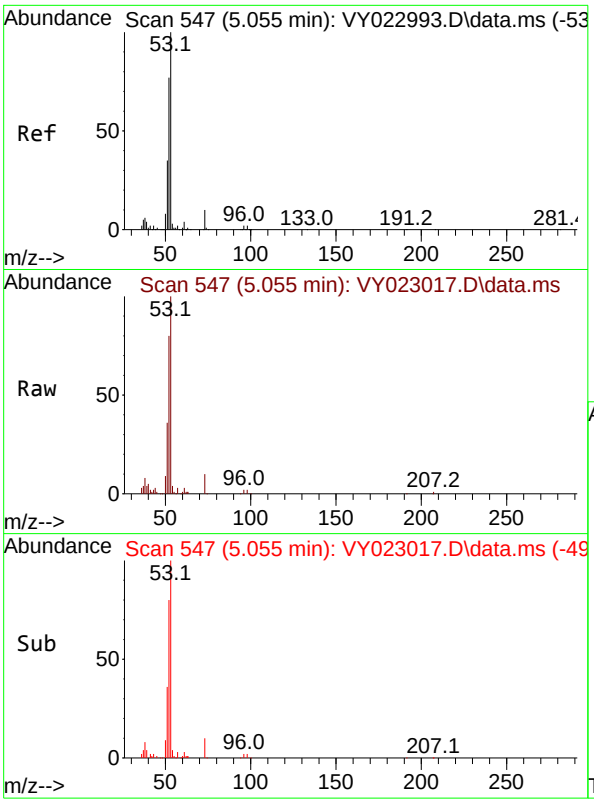


#14
Allyl chloride
Concen: 20.628 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 41 Resp: 139366

Ion	Ratio	Lower	Upper
41	100		
39	76.0	60.1	90.1
76	40.0	32.2	48.4



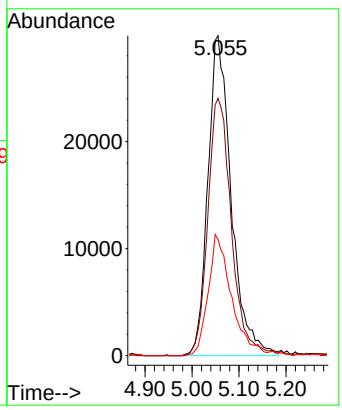


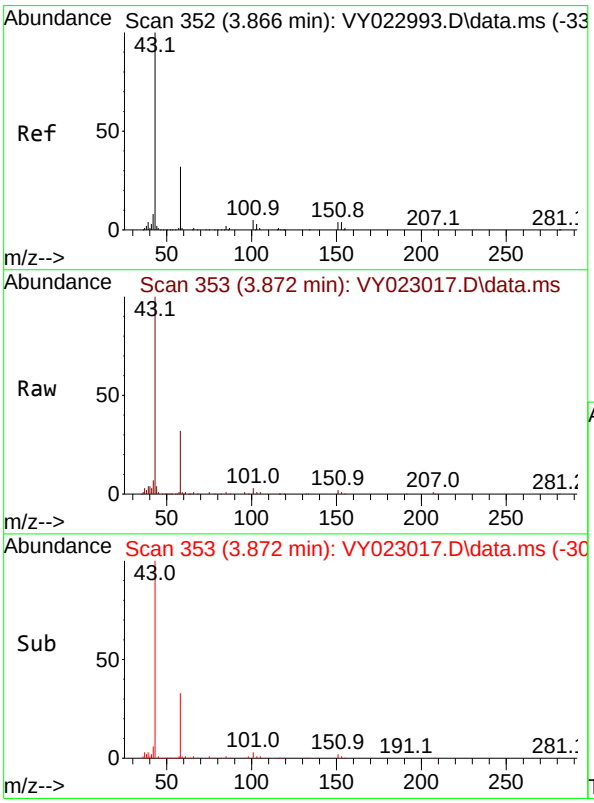
#15
Acrylonitrile
Concen: 117.367 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 53 Resp: 103105

Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.2	97.8
51	37.8	30.3	45.5

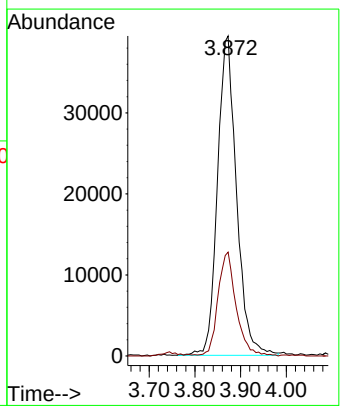


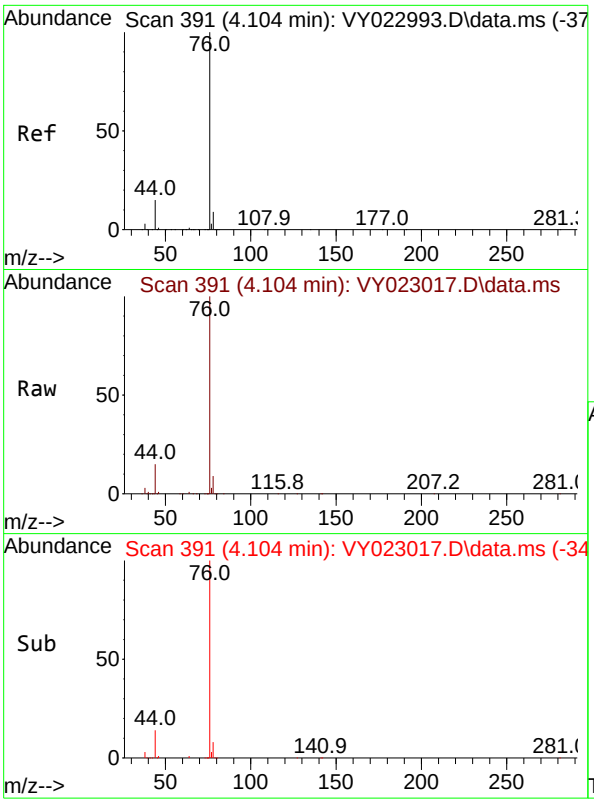


#16
Acetone
Concen: 148.622 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 43 Resp: 113819

Ion	Ratio	Lower	Upper
43	100		
58	32.5	26.2	39.4



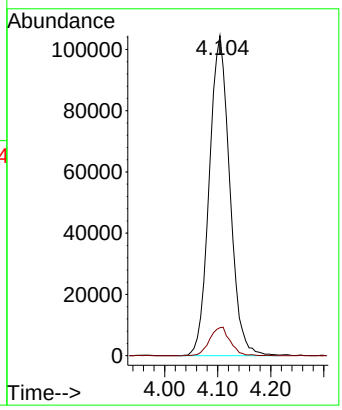


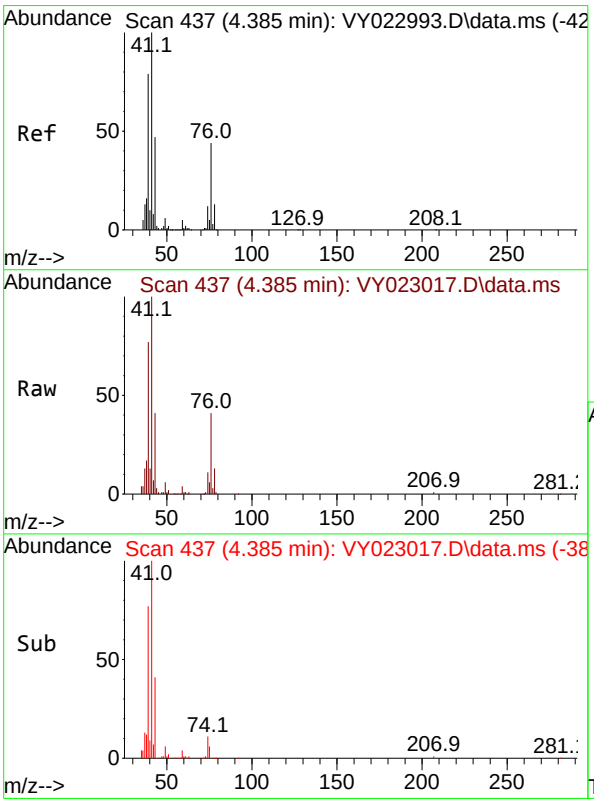
#17
Carbon Disulfide
Concen: 20.880 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 76 Resp: 280632

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

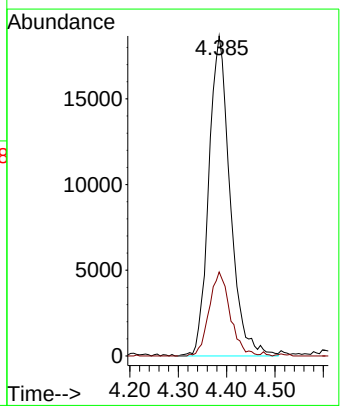


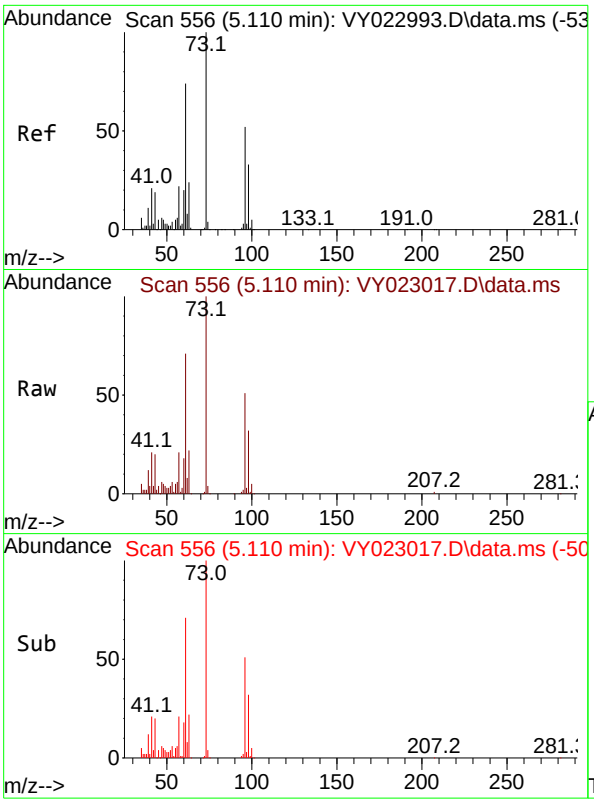


#18
Methyl Acetate
Concen: 22.037 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 43 Resp: 57135

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.1	30.1



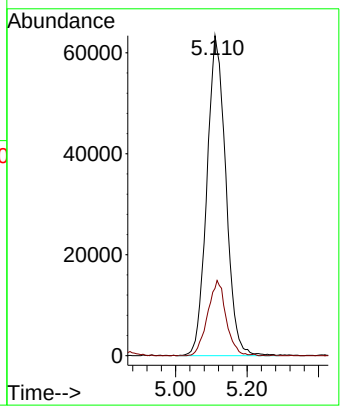


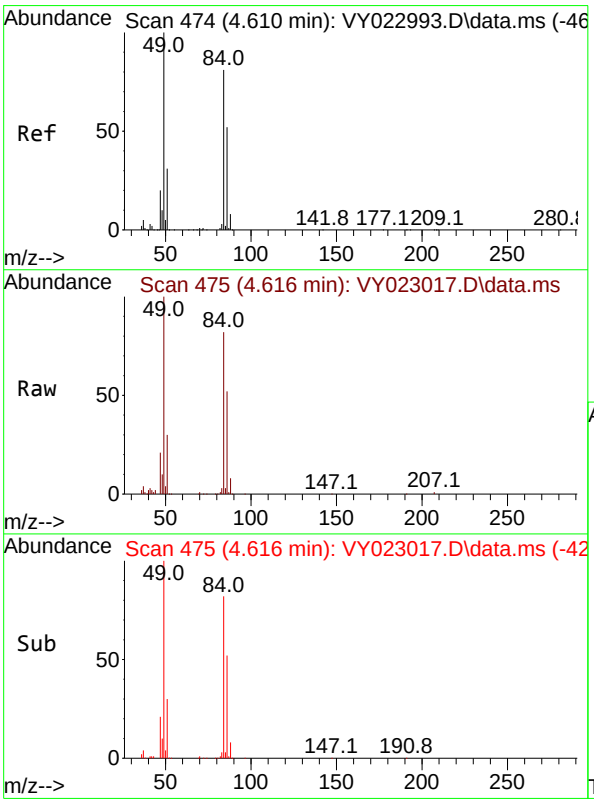
#19
Methyl tert-butyl Ether
Concen: 21.924 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 73 Resp: 233203

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

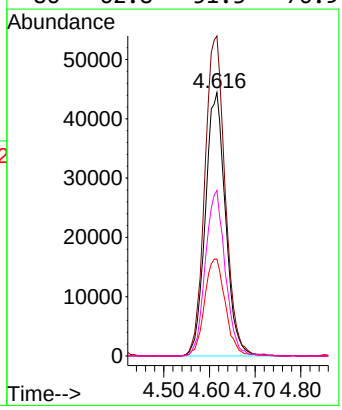


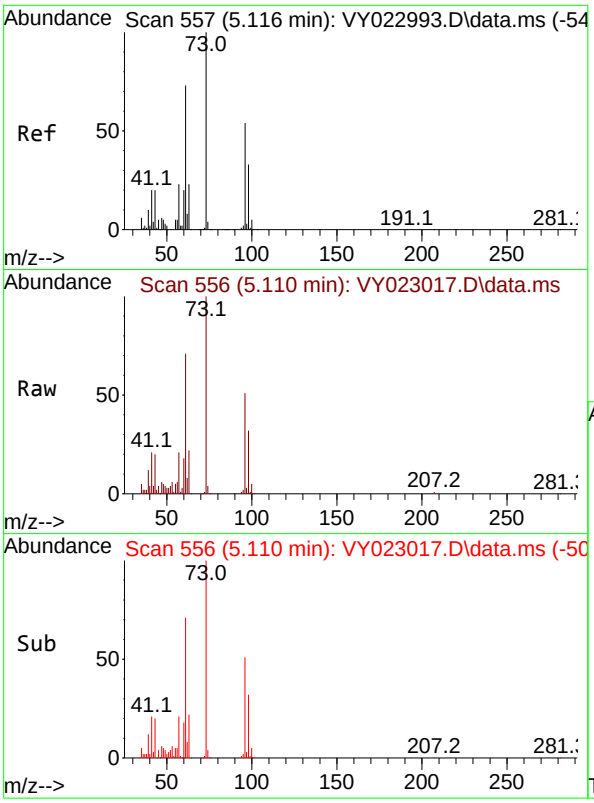


#20
Methylene Chloride
Concen: 20.247 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 84 Resp: 135775

Ion	Ratio	Lower	Upper
84	100		
49	121.5	98.2	147.4
51	36.7	30.5	45.7
86	62.8	51.3	76.9



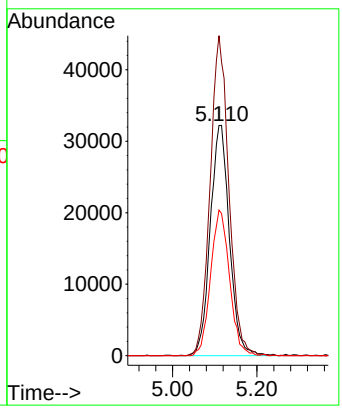


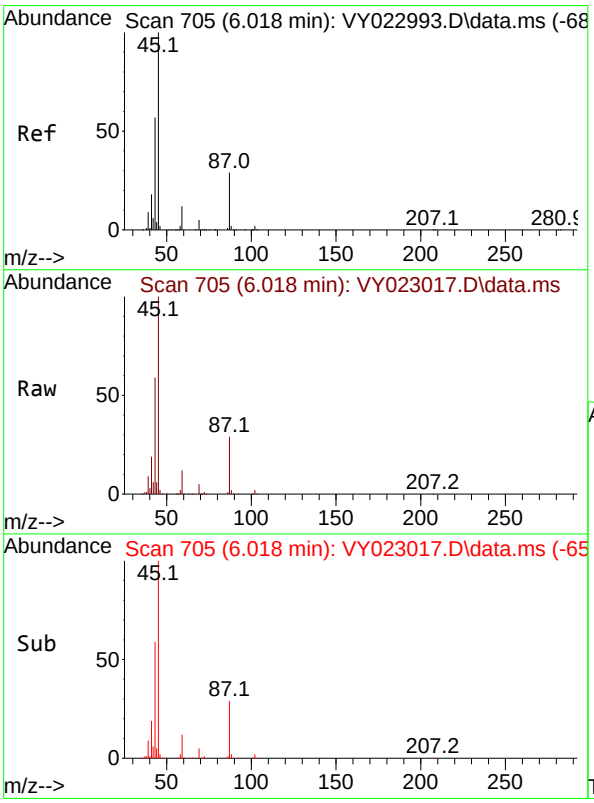
#21
trans-1,2-Dichloroethene
Concen: 20.564 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 96 Resp: 101510

Ion	Ratio	Lower	Upper
96	100		
61	139.0	107.4	161.2
98	63.3	49.3	73.9

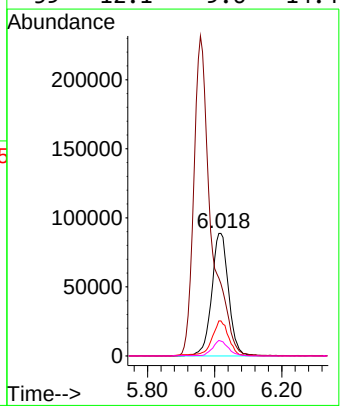


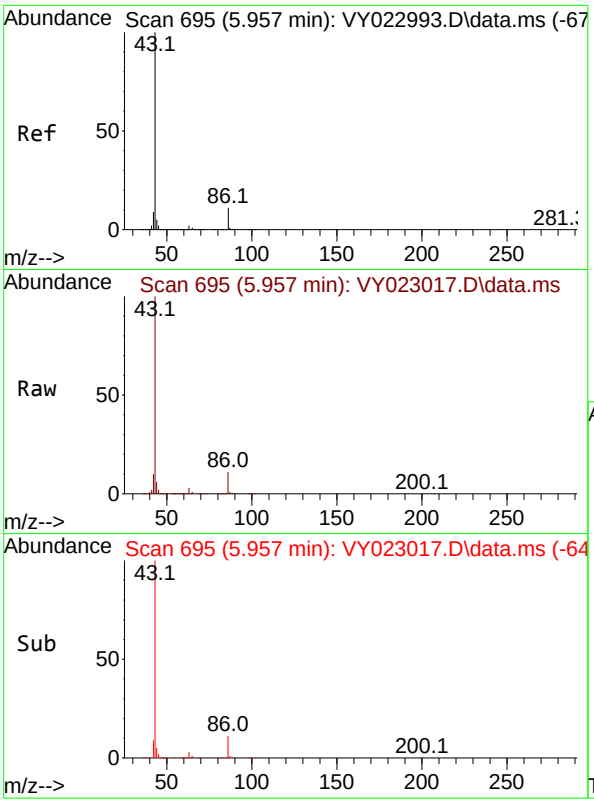


#22
Diisopropyl ether
Concen: 21.560 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 45 Resp: 309021

Ion	Ratio	Lower	Upper
45	100		
43	58.6	45.3	67.9
87	28.6	23.3	34.9
59	12.1	9.6	14.4



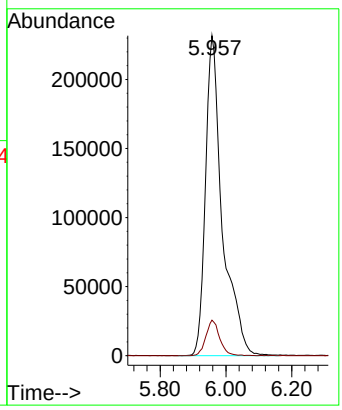


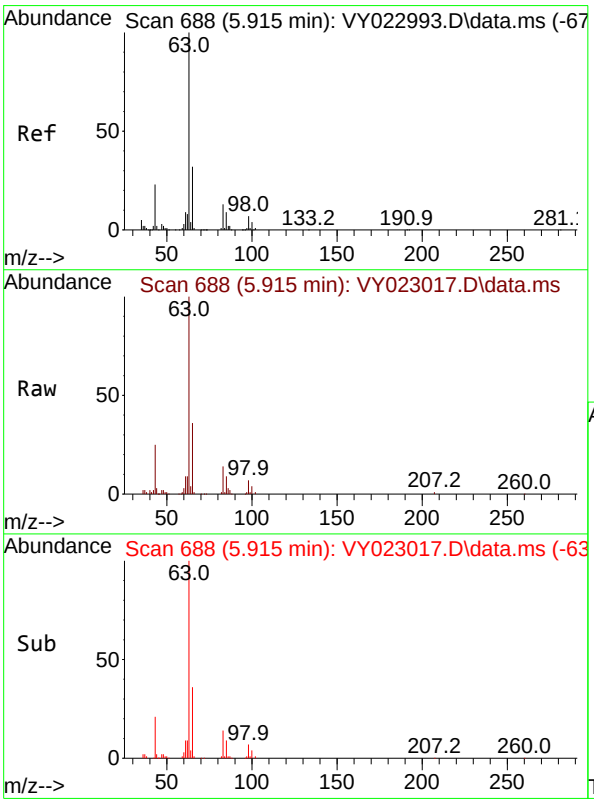
#23
Vinyl Acetate
Concen: 114.473 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 43 Resp: 826708

Ion	Ratio	Lower	Upper
43	100		
86	11.1	9.0	13.4

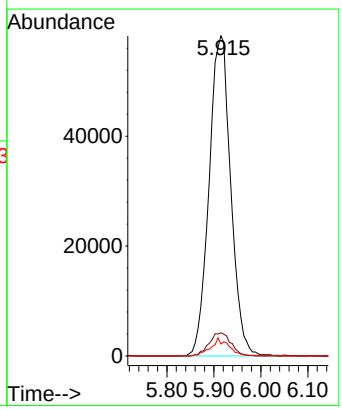


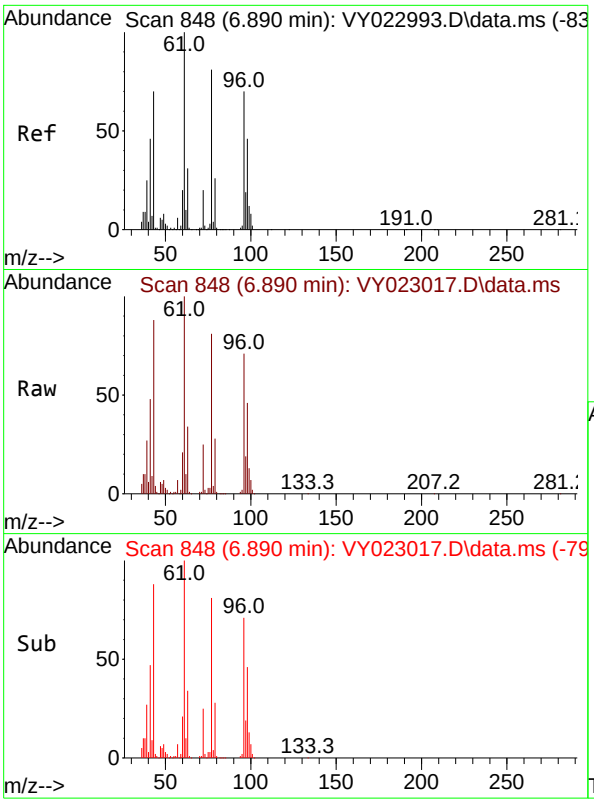


#24
1,1-Dichloroethane
Concen: 20.752 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 63 Resp: 186822

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.5	10.5
100	3.7	2.1	6.2



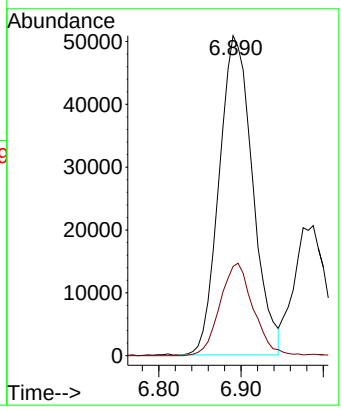


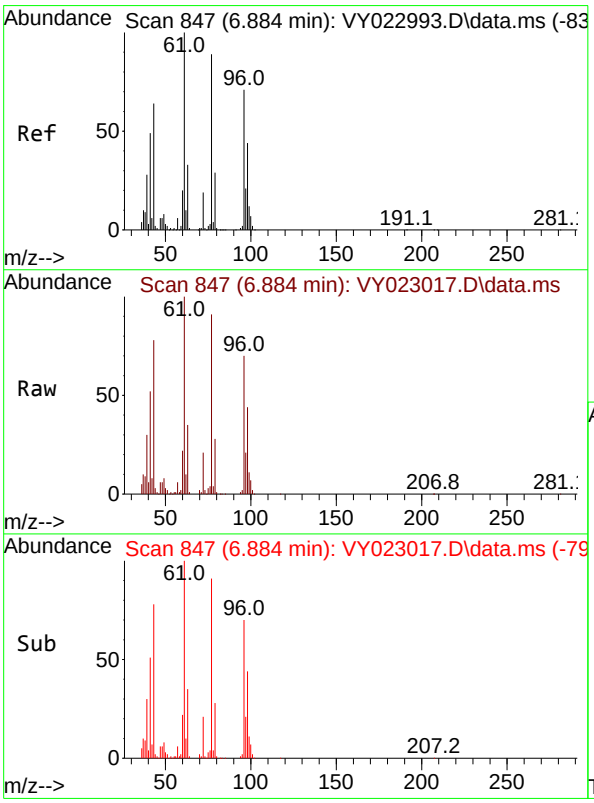
#25
2-Butanone
Concen: 130.833 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 43 Resp: 143739

Ion	Ratio	Lower	Upper
43	100		
72	28.0	22.9	34.3

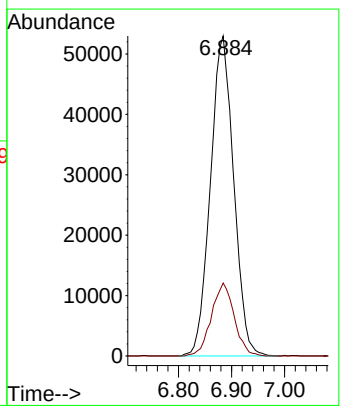


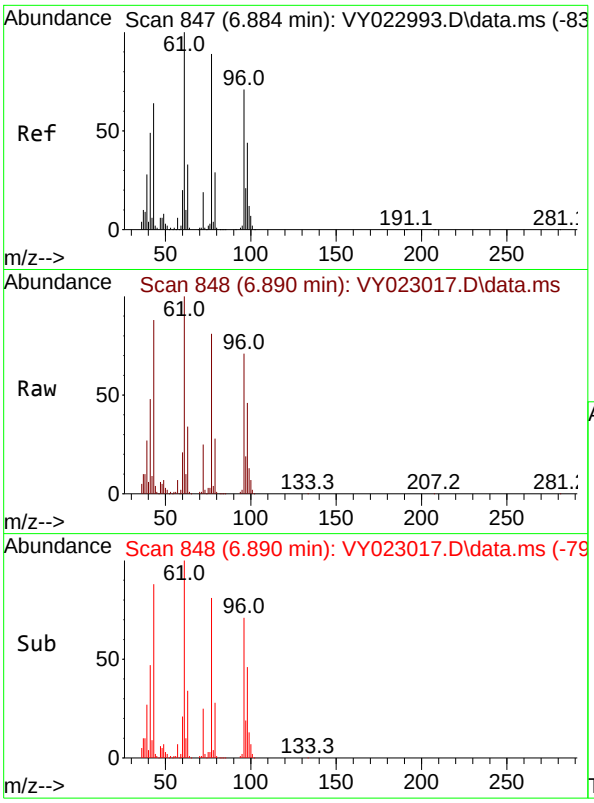


#26
2,2-Dichloropropane
Concen: 20.489 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 77 Resp: 161660

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.3	33.9



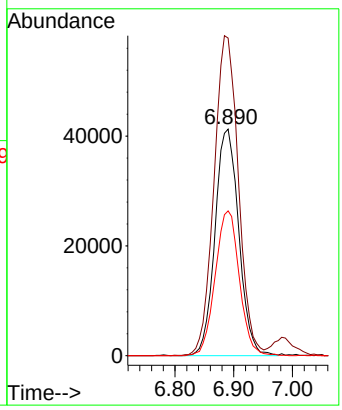


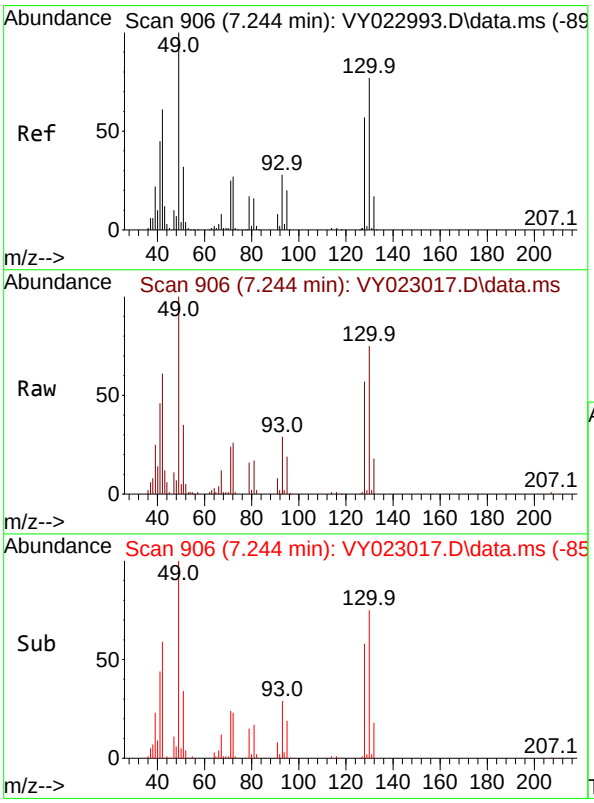
#27
cis-1,2-Dichloroethene
Concen: 20.419 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 96 Resp: 116165

Ion	Ratio	Lower	Upper
96	100		
61	144.8	0.0	286.2
98	64.9	0.0	127.4

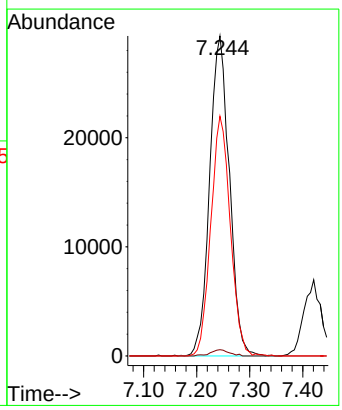


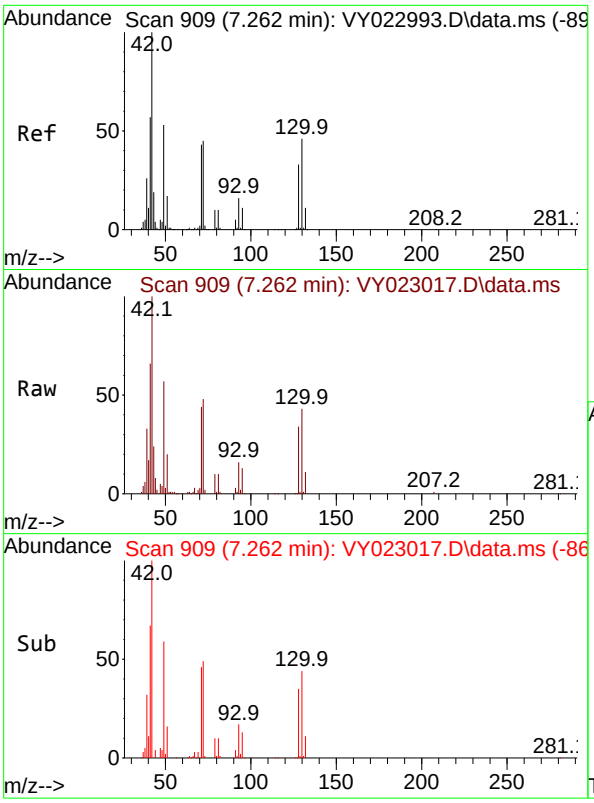


#28
Bromochloromethane
Concen: 21.693 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 49 Resp: 75745

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	74.0	61.8	92.8



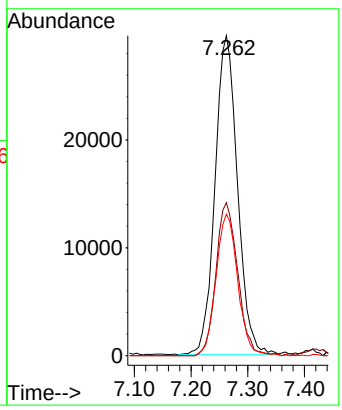


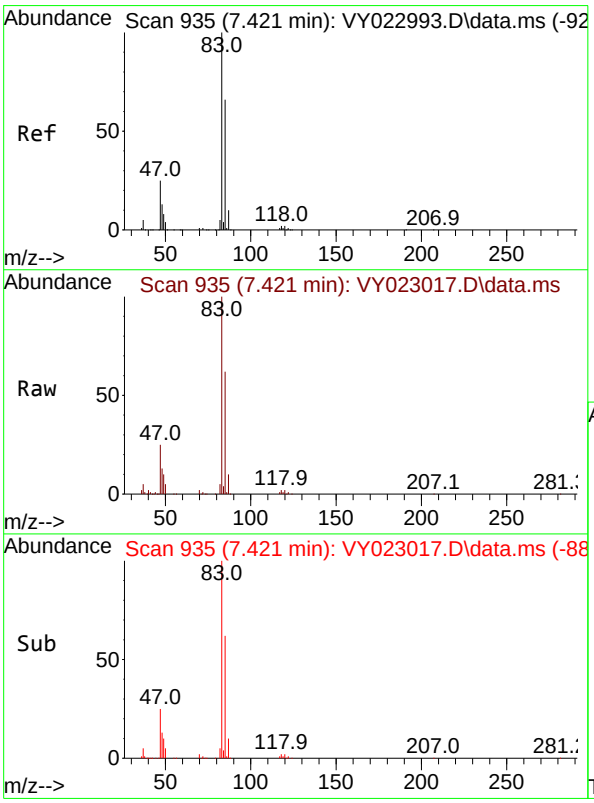
#29
Tetrahydrofuran
Concen: 117.116 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 42 Resp: 81464

Ion	Ratio	Lower	Upper
42	100		
72	46.4	37.5	56.3
71	42.9	34.2	51.4

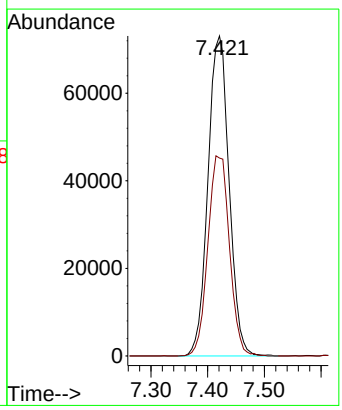


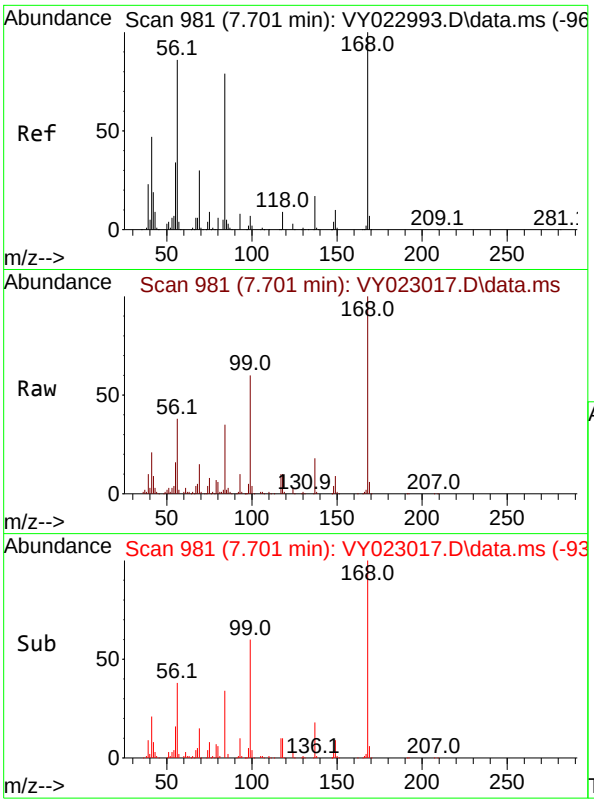


#30
Chloroform
Concen: 20.824 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 83 Resp: 189111

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.6	78.8



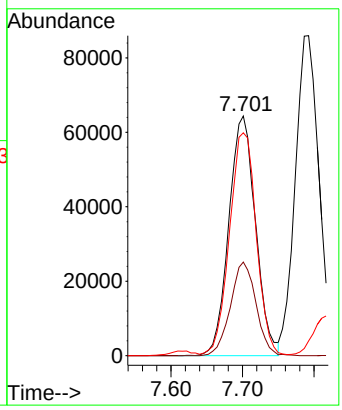


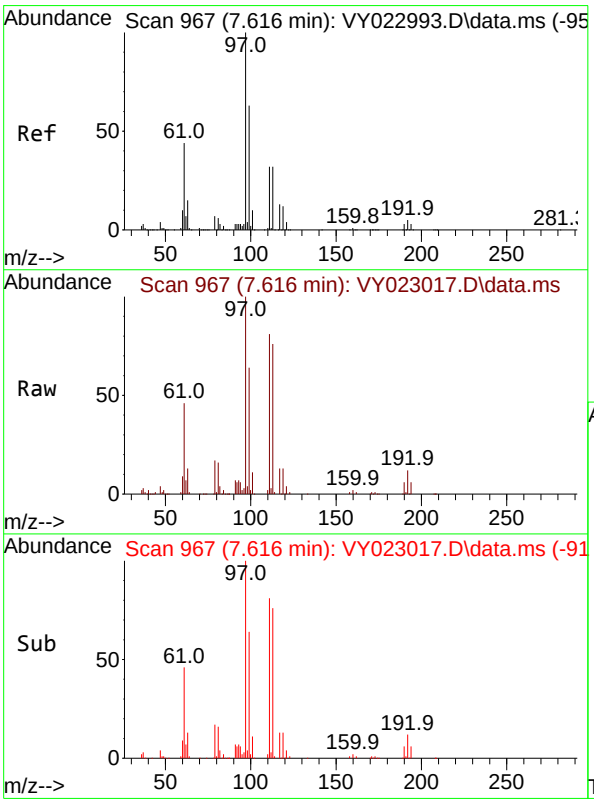
#31
Cyclohexane
Concen: 19.888 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 56 Resp: 167294

Ion	Ratio	Lower	Upper
56	100		
69	39.1	28.1	42.1
84	91.8	73.5	110.3

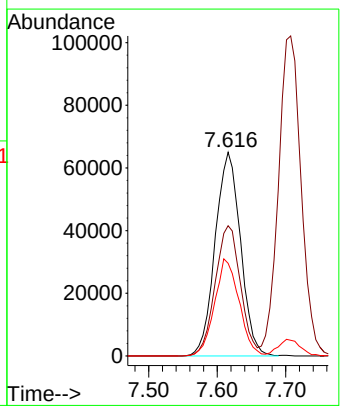


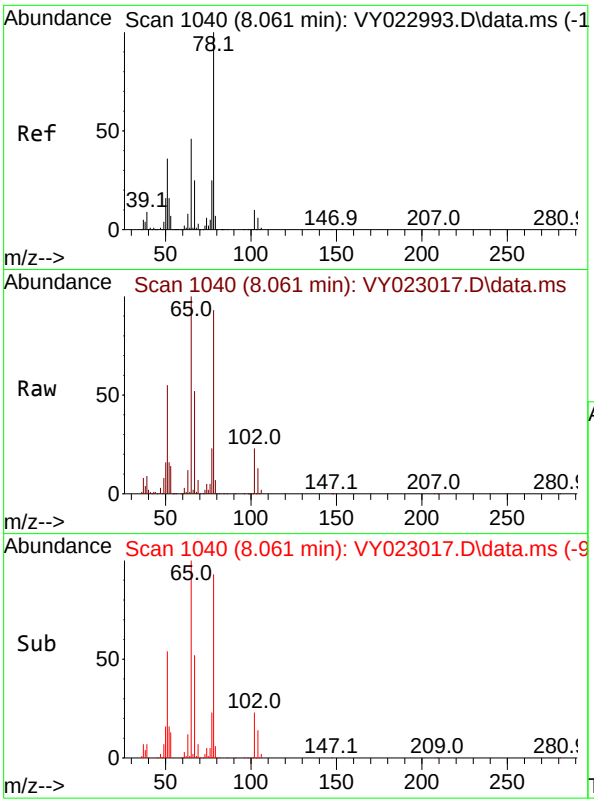


#32
1,1,1-Trichloroethane
Concen: 20.240 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 97 Resp: 166781

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.1	76.7
61	46.2	36.1	54.1



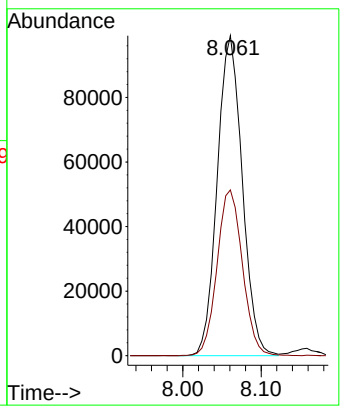


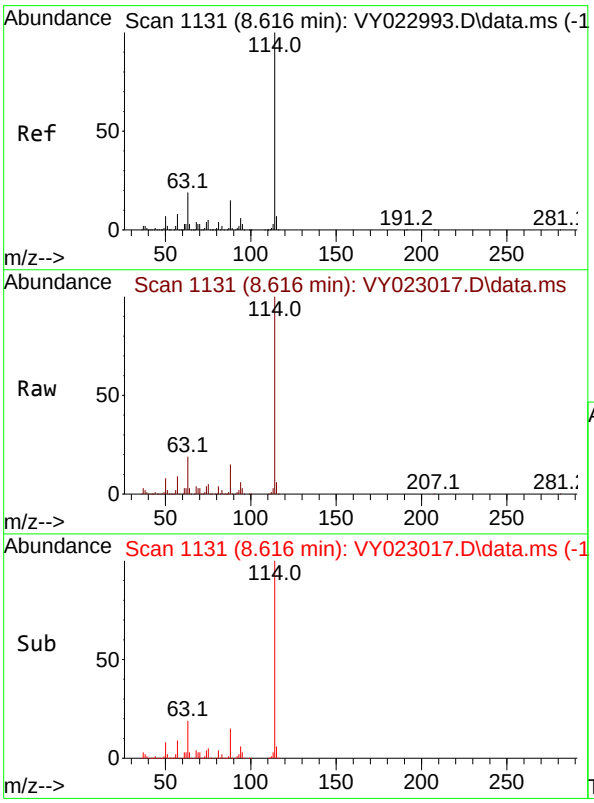
#33
1,2-Dichloroethane-d4
Concen: 52.047 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 65 Resp: 219889

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	107.4

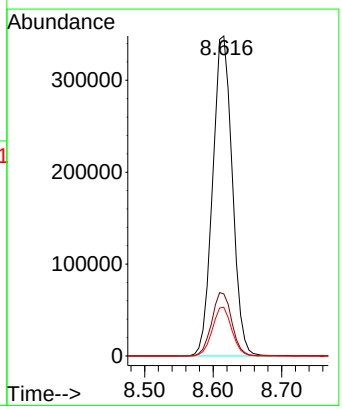


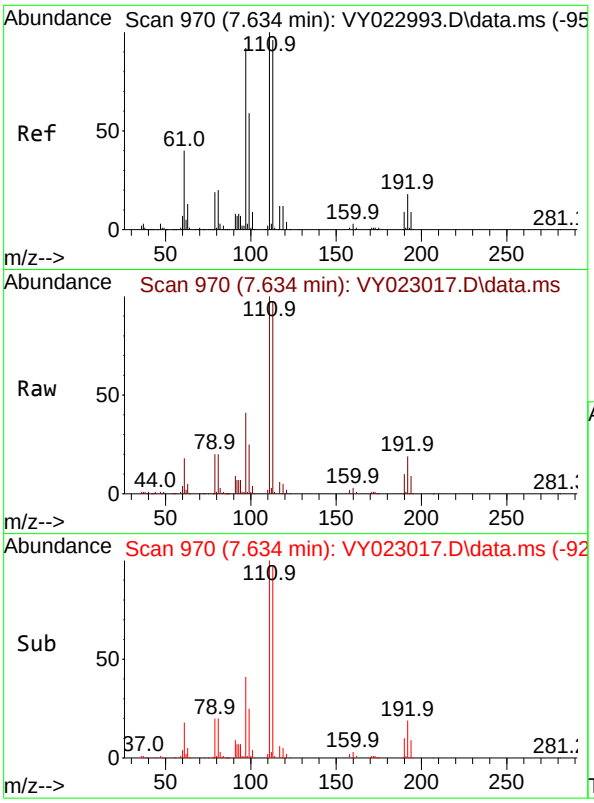


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:114 Resp: 691452

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.8
88	15.2	0.0	30.2



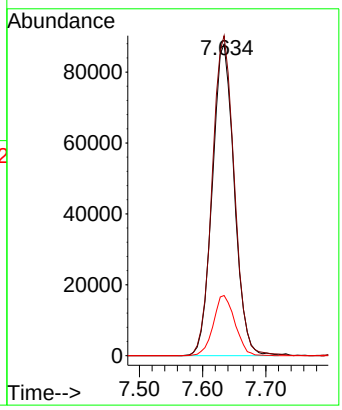


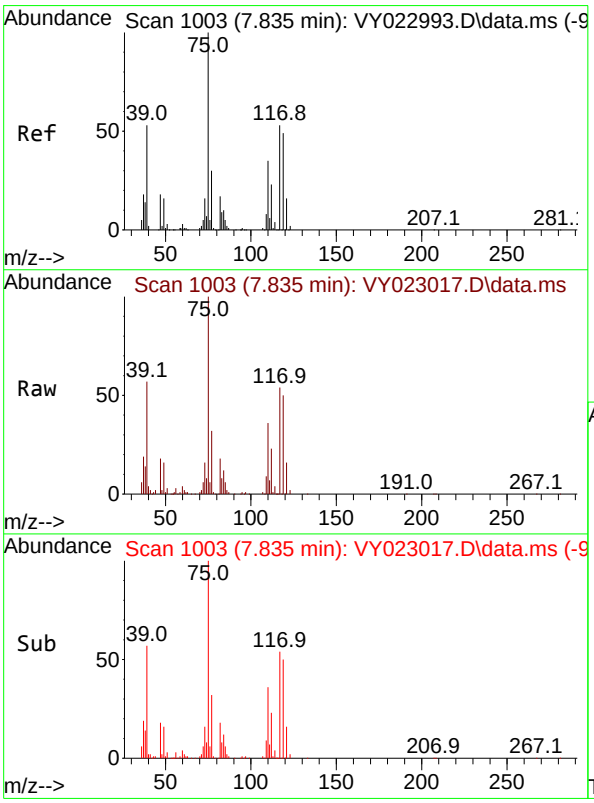
#35
Dibromofluoromethane
Concen: 48.092 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:113 Resp: 210938

Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.2	124.8
192	19.1	15.3	22.9

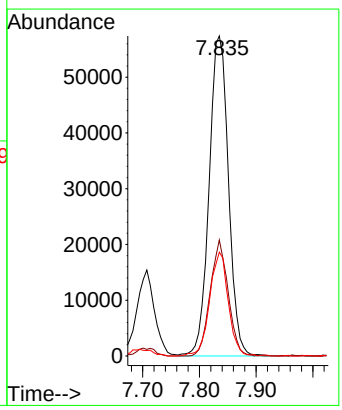


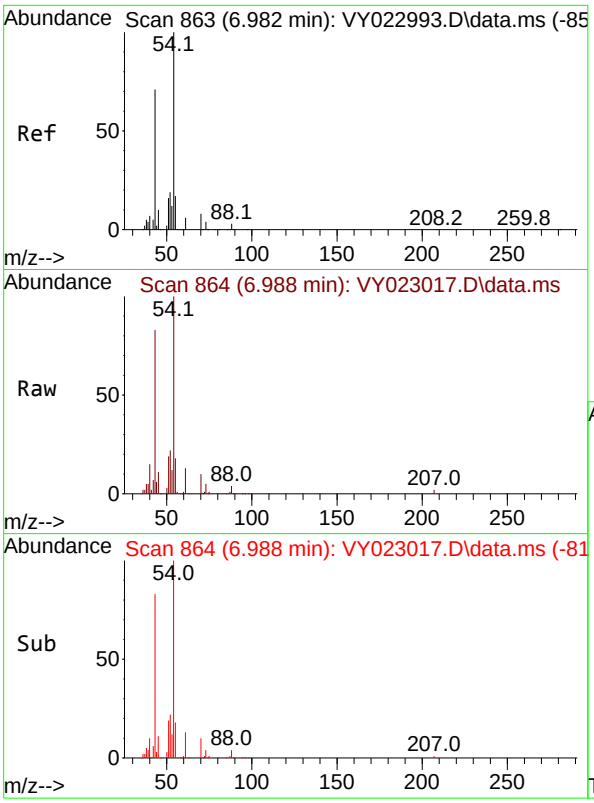


#36
1,1-Dichloropropene
Concen: 19.704 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 136134

Ion	Ratio	Lower	Upper
75	100		
110	33.6	17.3	51.9
77	31.1	24.6	37.0



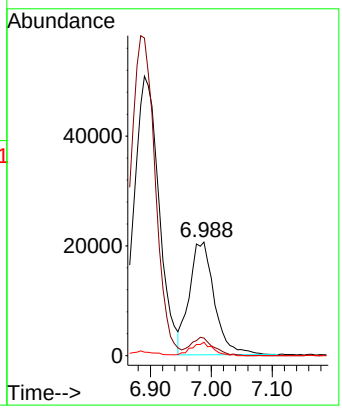


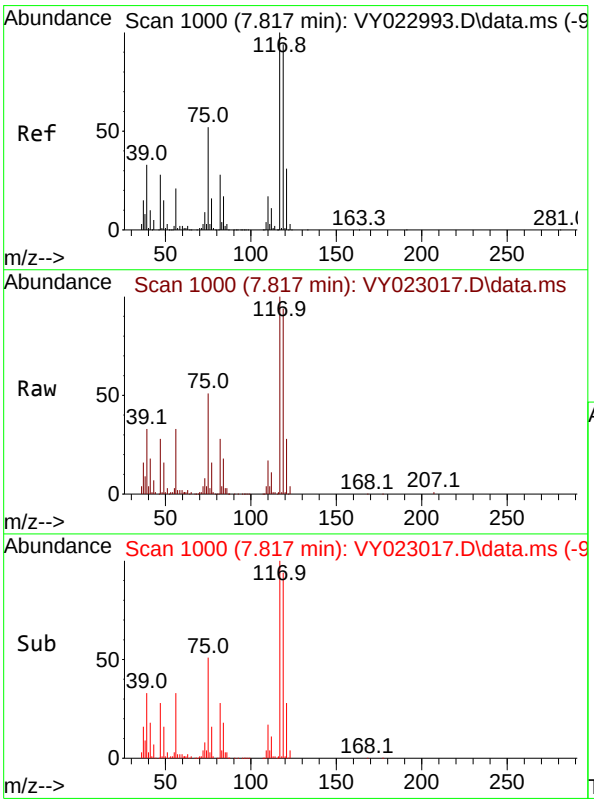
#37
Ethyl Acetate
Concen: 22.847 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 43 Resp: 58625

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.6	17.4
70	10.3	8.5	12.7

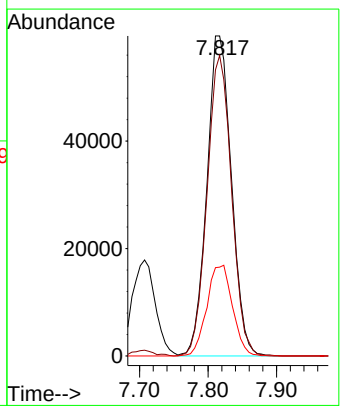


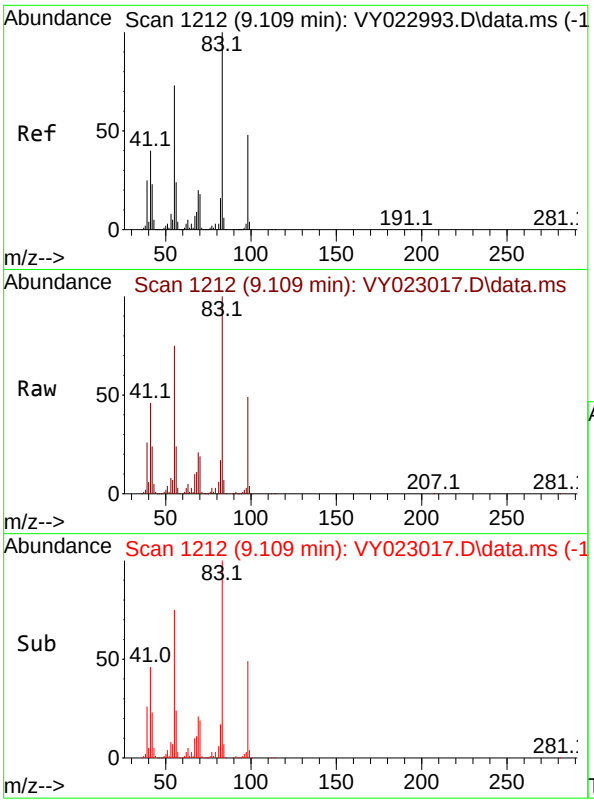


#38
Carbon Tetrachloride
Concen: 19.775 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:117 Resp: 148433

Ion	Ratio	Lower	Upper
117	100		
119	93.8	74.9	112.3
121	27.7	24.6	37.0



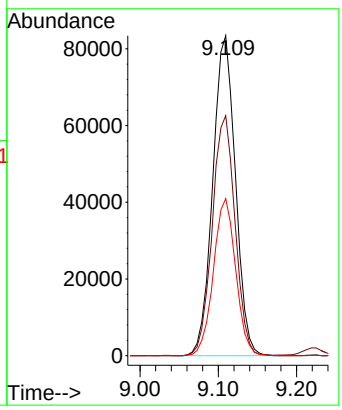


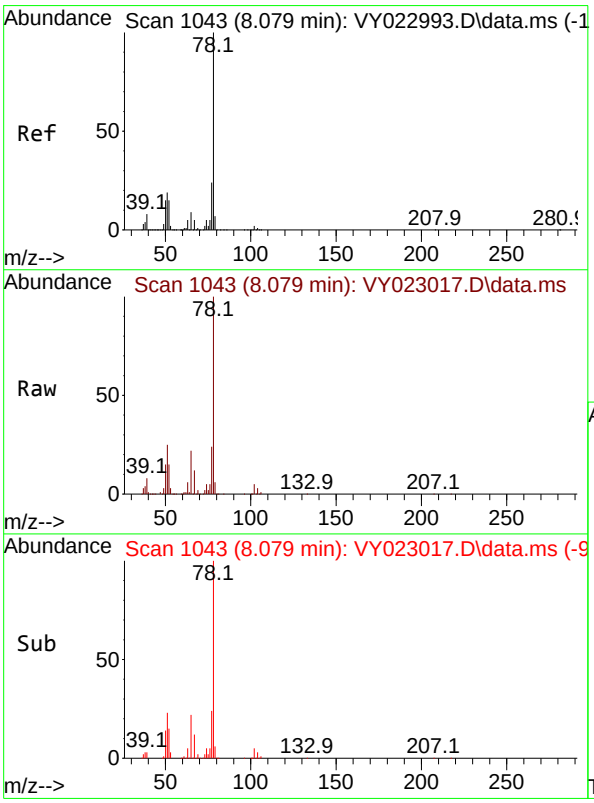
#39
Methylcyclohexane
Concen: 18.760 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 83 Resp: 167760

Ion	Ratio	Lower	Upper
83	100		
55	75.0	58.1	87.1
98	49.1	38.5	57.7

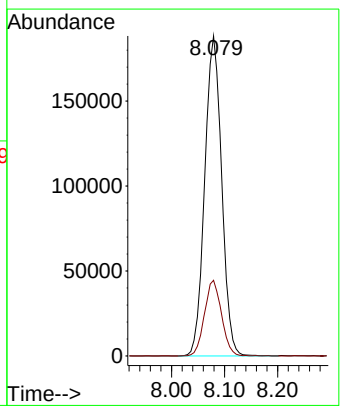


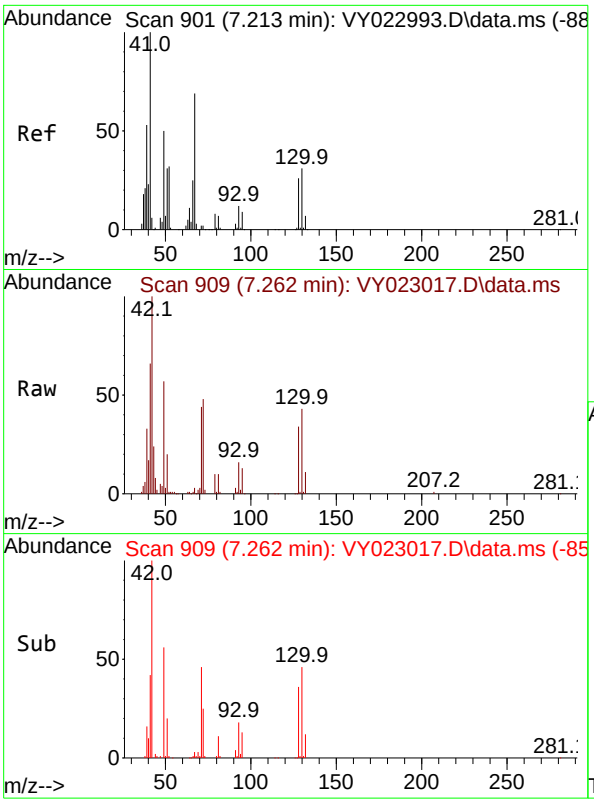


#40
Benzene
Concen: 20.095 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 78 Resp: 418020

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4



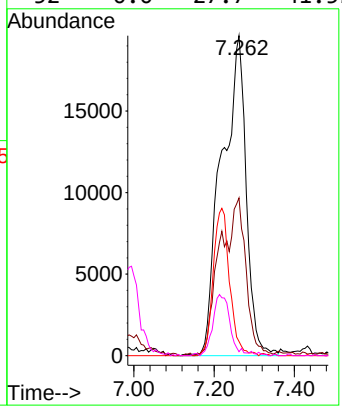


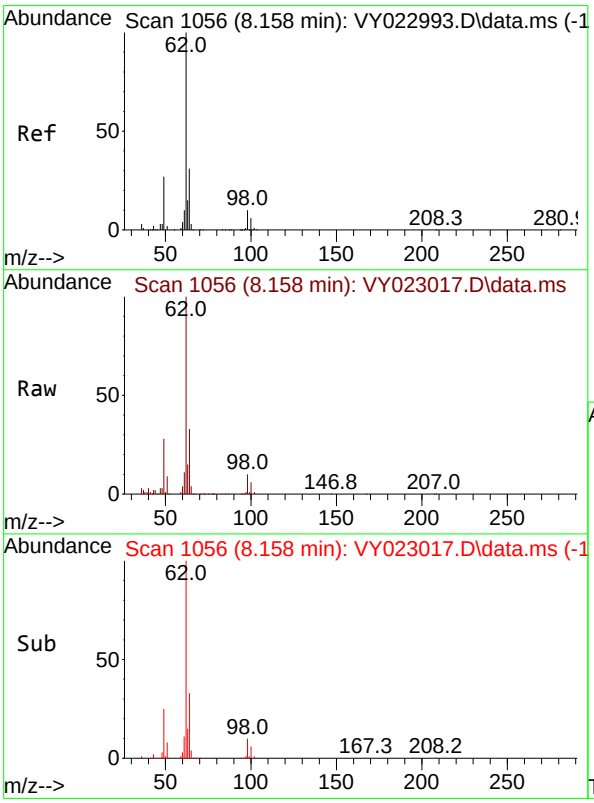
#41
Methacrylonitrile
Concen: 59.247 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.049 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 41 Resp: 82816

Ion	Ratio	Lower	Upper
41	100		
39	28.1	50.0	75.0#
67	0.0	65.4	98.2#
52	0.0	27.7	41.5#

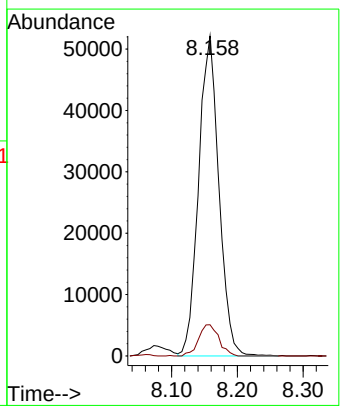


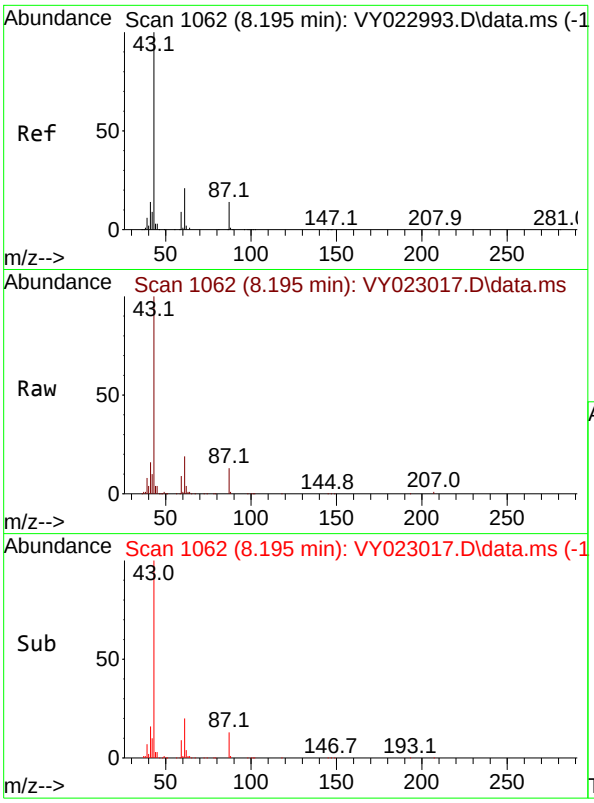


#42
1,2-Dichloroethane
Concen: 21.622 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 62 Resp: 111901

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0



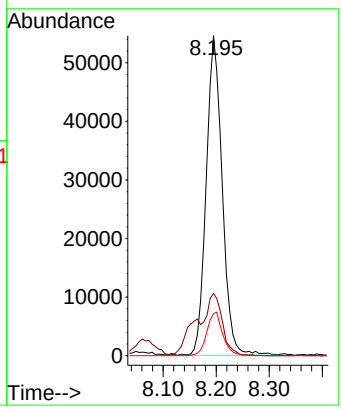


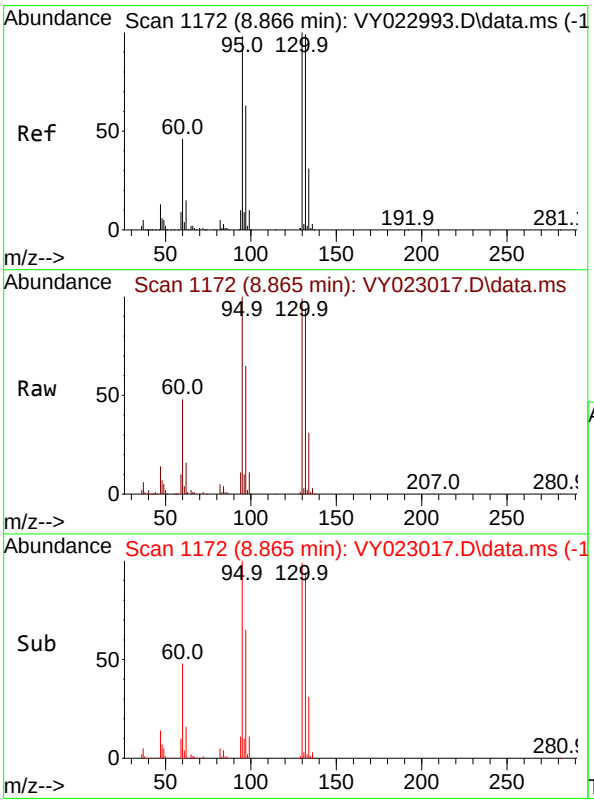
#43
Isopropyl Acetate
Concen: 22.459 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 43 Resp: 114470

Ion	Ratio	Lower	Upper
43	100		
61	20.0	25.0	37.4#
87	13.5	11.1	16.7

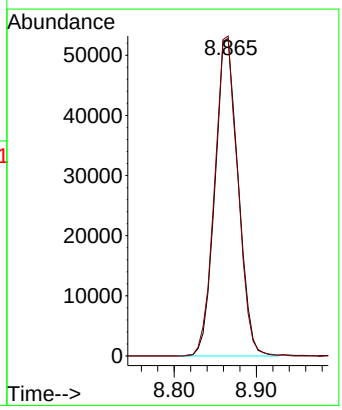


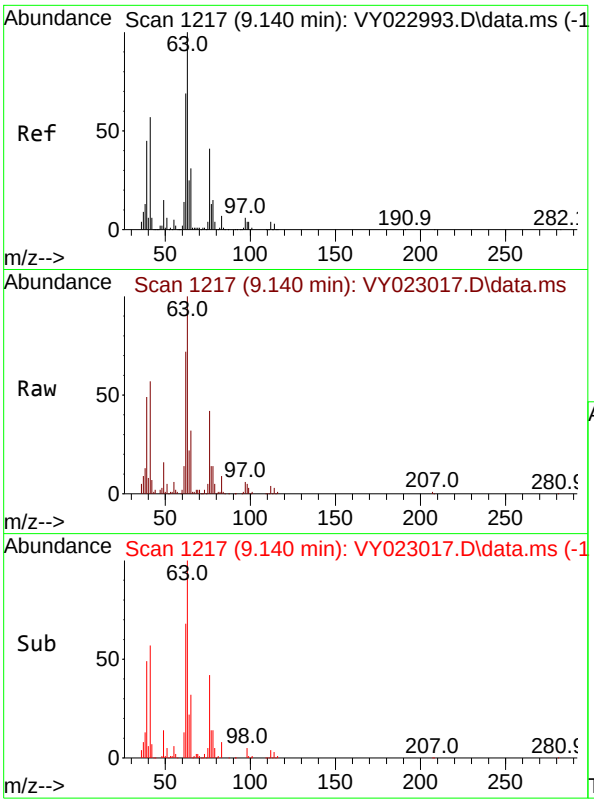


#44
Trichloroethene
Concen: 19.361 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:130 Resp: 103444

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	195.8



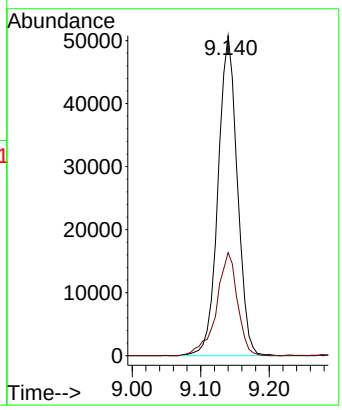


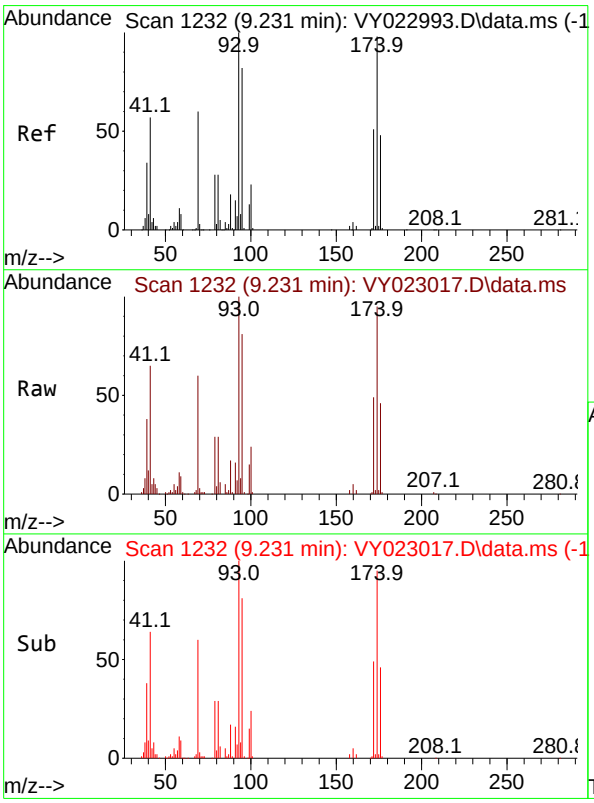
#45
1,2-Dichloropropane
Concen: 20.378 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 63 Resp: 98991

Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.6	37.0

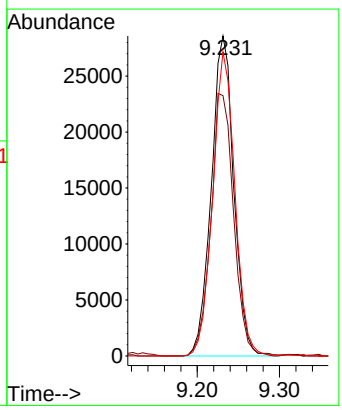


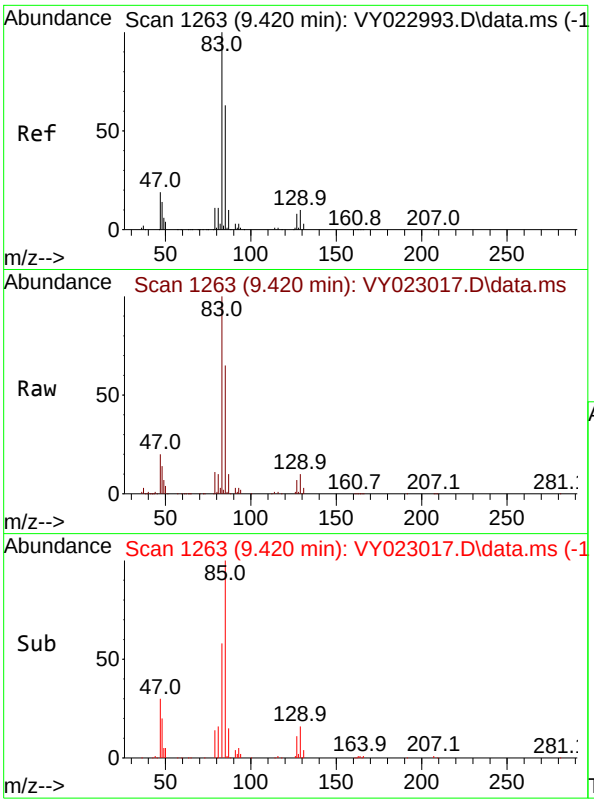


#46
Dibromomethane
Concen: 21.702 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 93 Resp: 54493

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.9	98.9
174	93.6	76.4	114.6



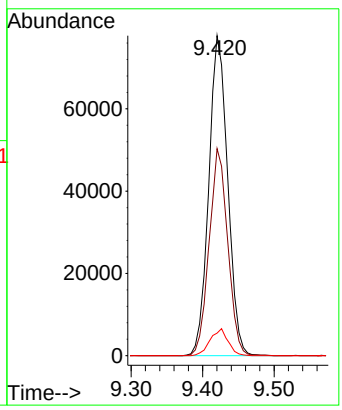


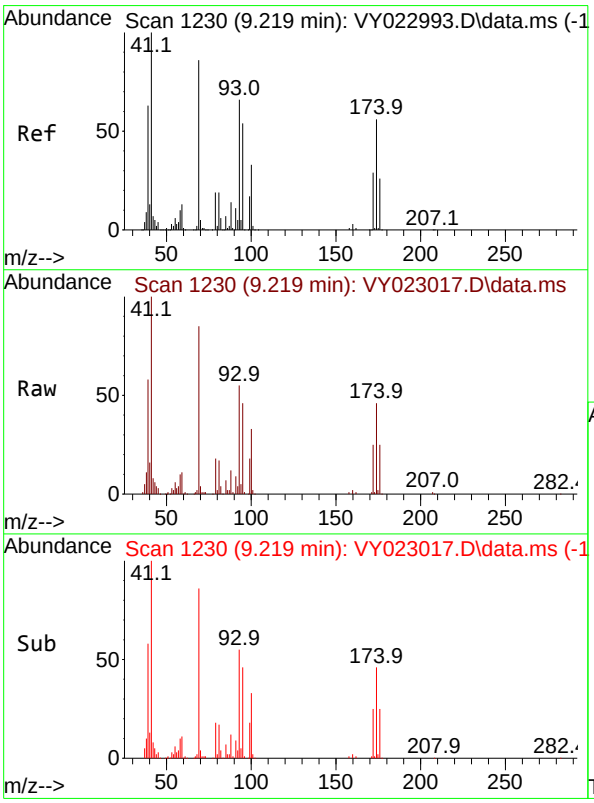
#47
Bromodichloromethane
Concen: 20.570 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 83 Resp: 142773

Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.6	75.8
127	7.0	6.5	9.7

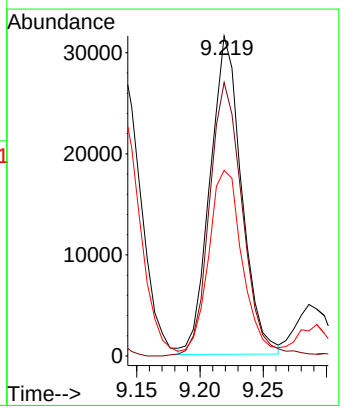


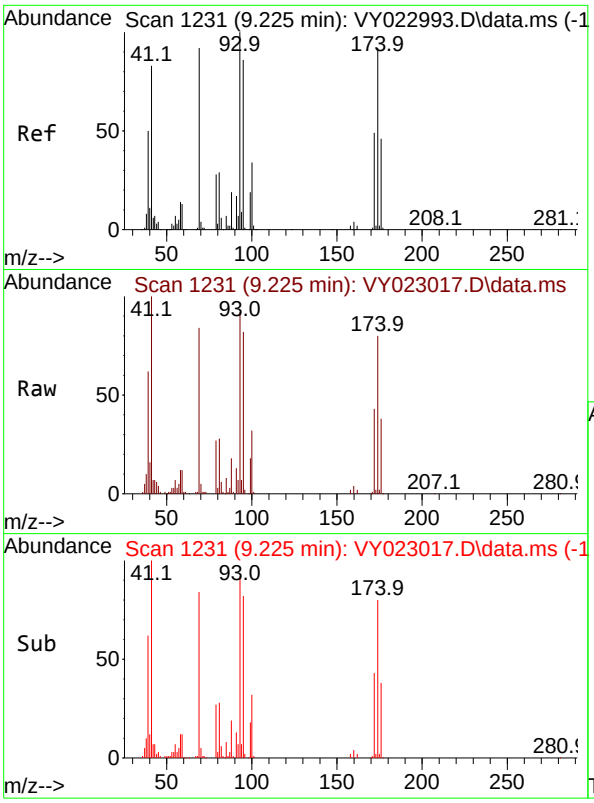


#48
Methyl methacrylate
Concen: 22.225 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 41 Resp: 54690

Ion	Ratio	Lower	Upper
41	100		
69	90.2	71.4	107.0
39	59.3	47.8	71.8



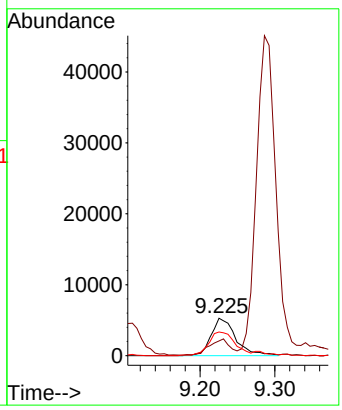


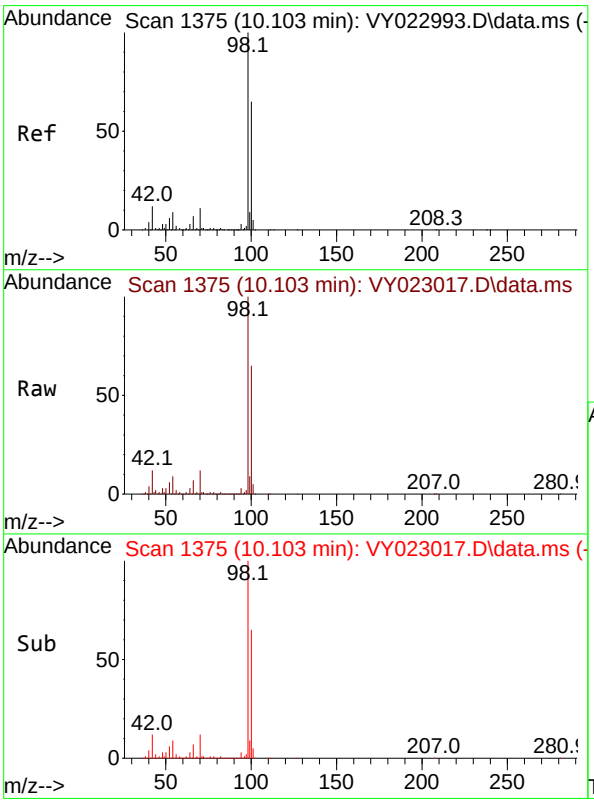
#49
1,4-Dioxane
Concen: 460.562 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 88 Resp: 12190

Ion	Ratio	Lower	Upper
88	100		
43	35.5	28.7	43.1
58	67.0	59.8	89.6

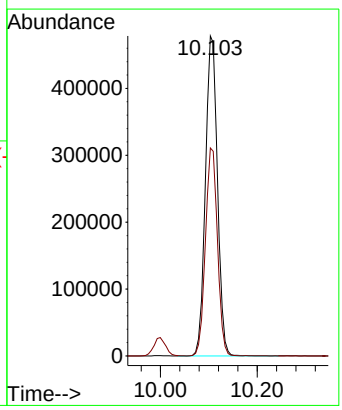


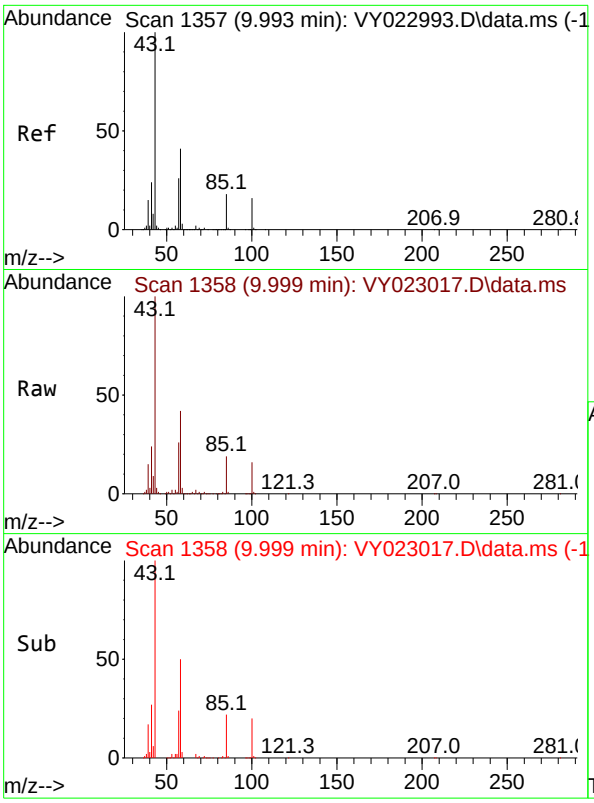


#50
Toluene-d8
Concen: 47.553 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 98 Resp: 827118

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2



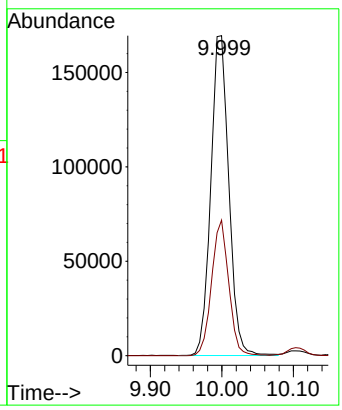


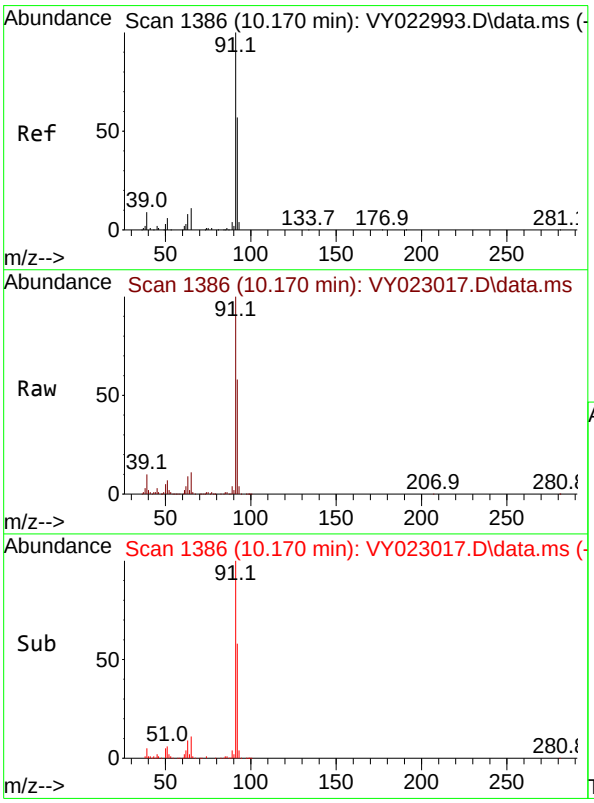
#51
4-Methyl-2-Pentanone
Concen: 114.770 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 43 Resp: 296911

Ion	Ratio	Lower	Upper
43	100		
58	40.3	32.5	48.7

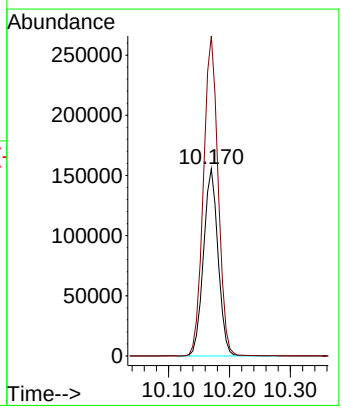


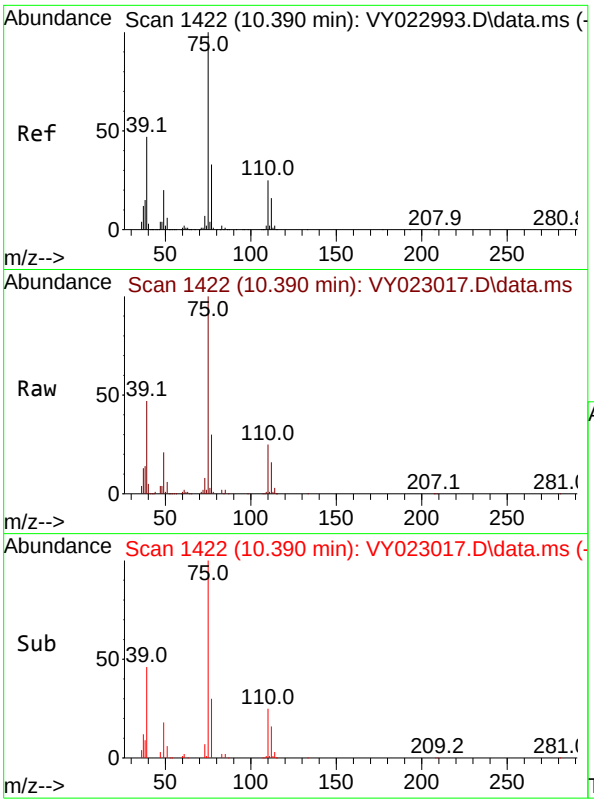


#52
Toluene
Concen: 19.975 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 92 Resp: 258346

Ion	Ratio	Lower	Upper
92	100		
91	172.7	137.8	206.6



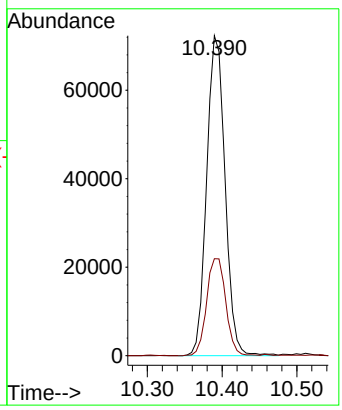


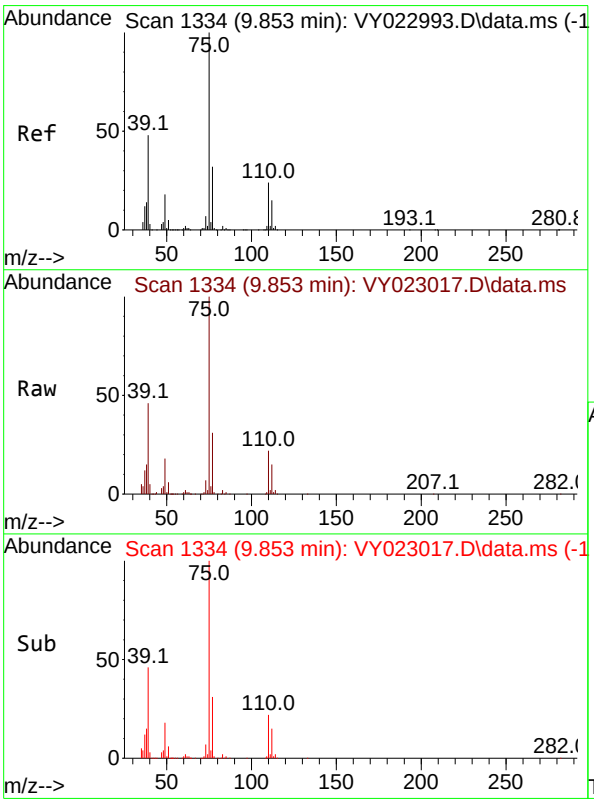
#53
t-1,3-Dichloropropene
Concen: 20.756 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 75 Resp: 123664

Ion	Ratio	Lower	Upper
75	100		
77	30.3	26.4	39.6

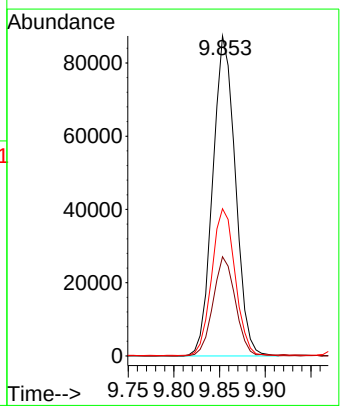


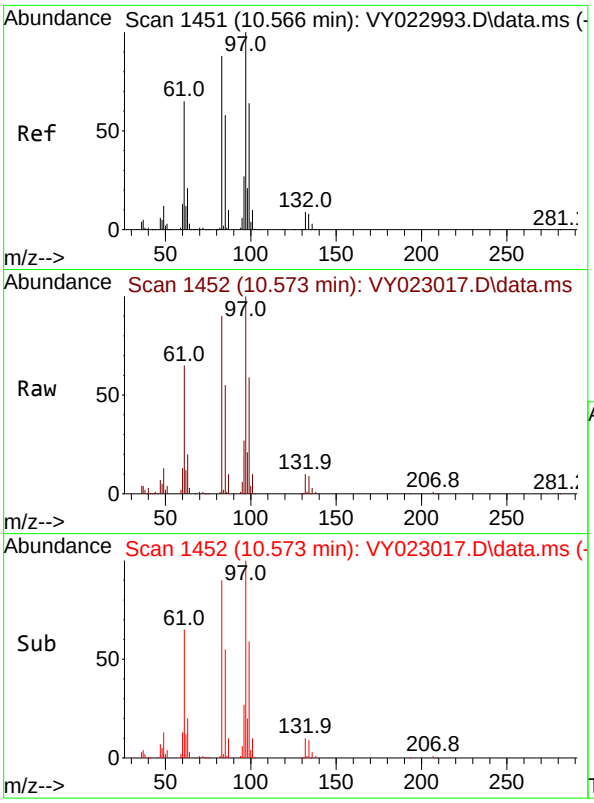


#54
cis-1,3-Dichloropropene
Concen: 20.967 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 150566

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.0
39	45.8	38.2	57.2



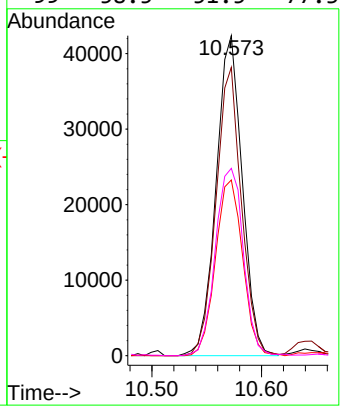


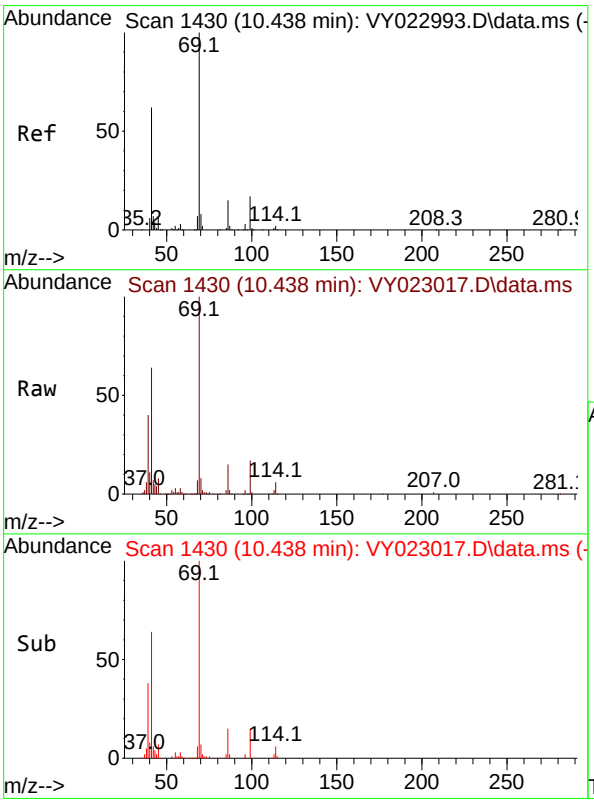
#55
1,1,2-Trichloroethane
Concen: 21.265 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 97 Resp: 70181

Ion	Ratio	Lower	Upper
97	100		
83	90.1	70.2	105.2
85	54.9	46.2	69.2
99	58.5	51.5	77.3

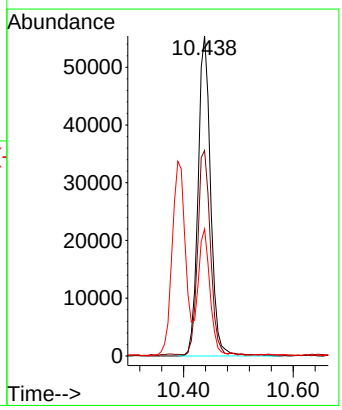


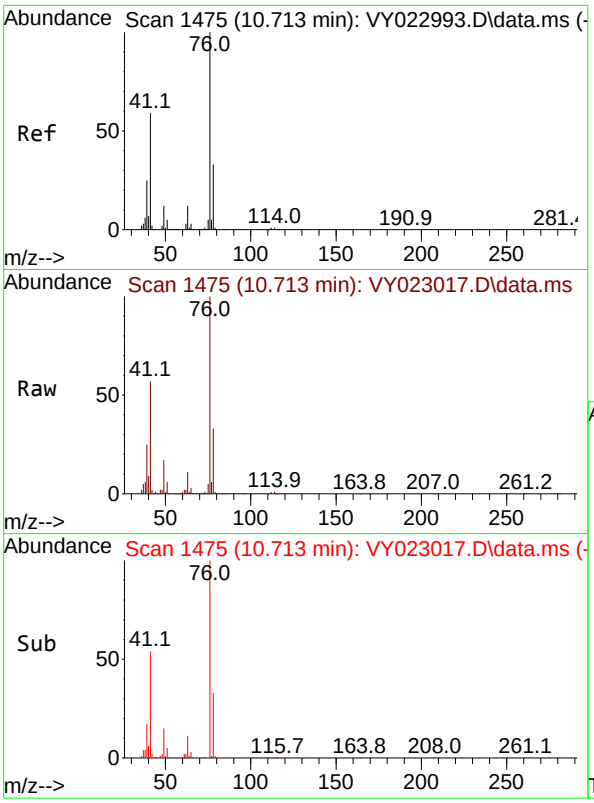


#56
Ethyl methacrylate
Concen: 21.424 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 69 Resp: 88261

Ion	Ratio	Lower	Upper
69	100		
41	65.1	51.0	76.4
39	37.0	30.6	46.0



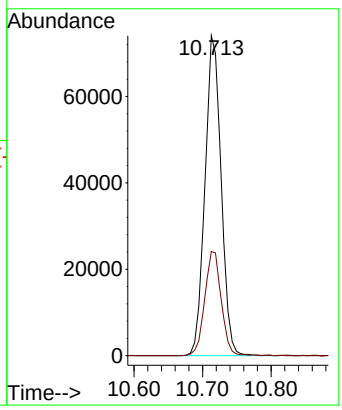


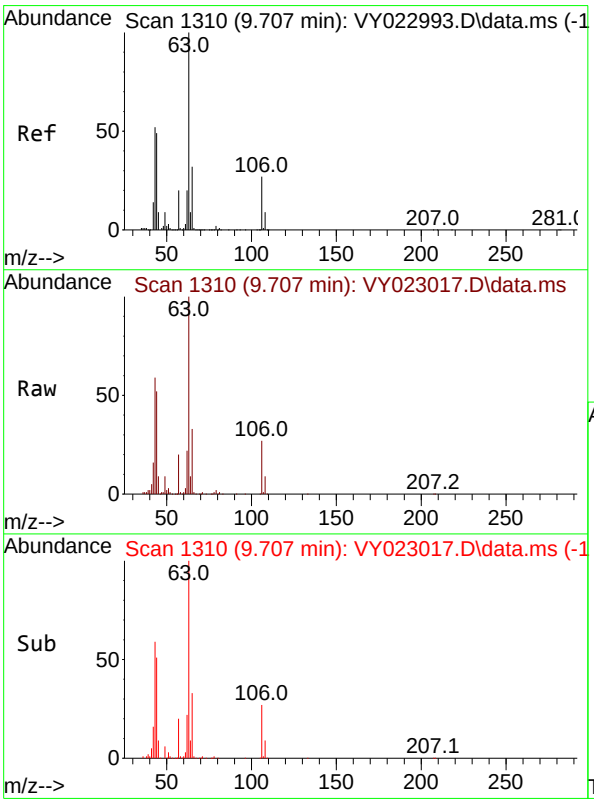
#57
1,3-Dichloropropane
Concen: 21.373 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 76 Resp: 121849

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.6	39.8

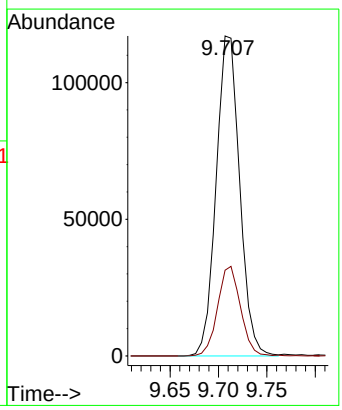


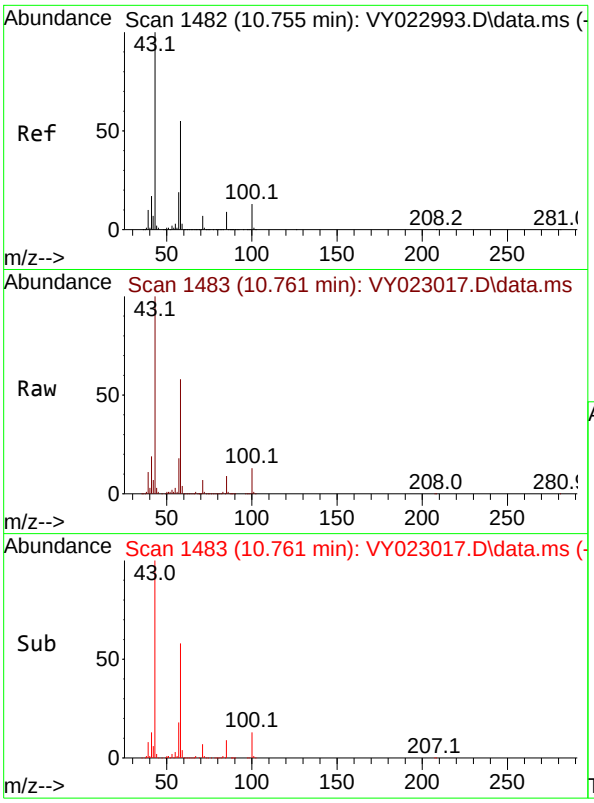


#58
2-Chloroethyl Vinyl ether
Concen: 97.947 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 63 Resp: 197528

Ion	Ratio	Lower	Upper
63	100		
106	27.4	22.6	33.8



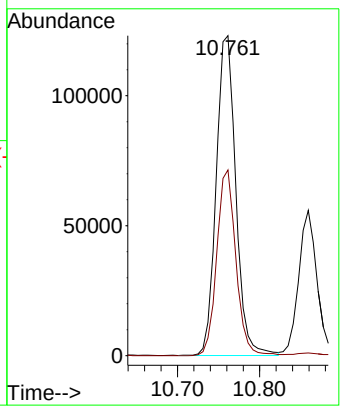


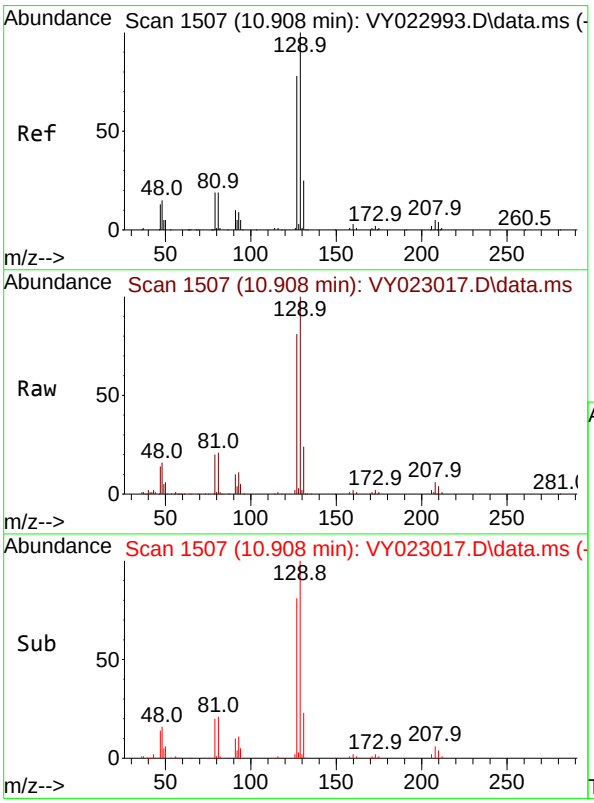
#59
2-Hexanone
Concen: 120.174 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 43 Resp: 204354

Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.1	84.3

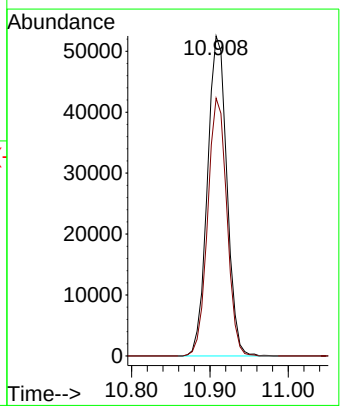


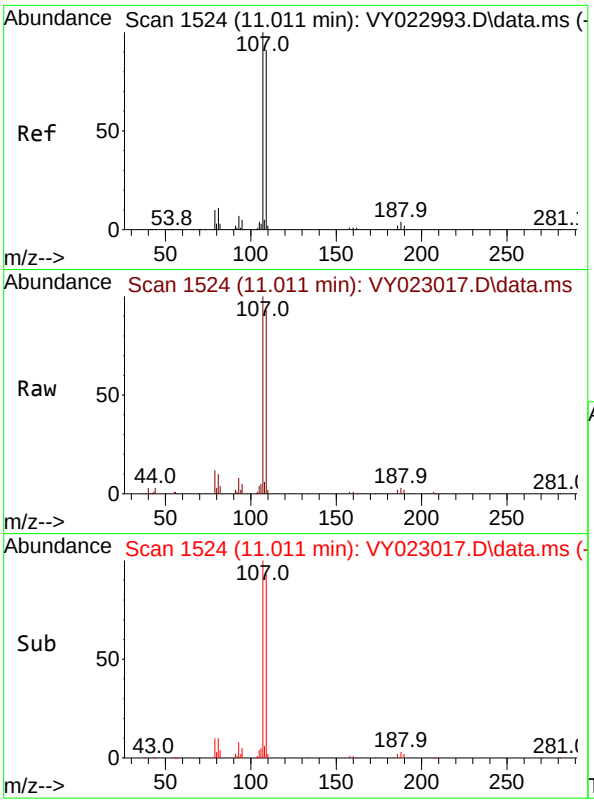


#60
Dibromochloromethane
Concen: 20.940 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:129 Resp: 90494

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.7	116.1



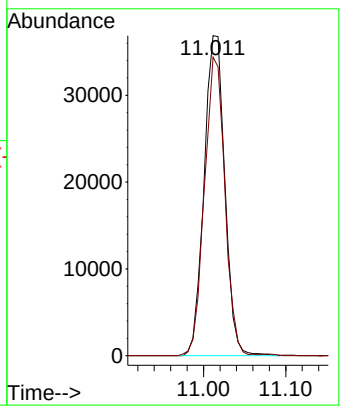


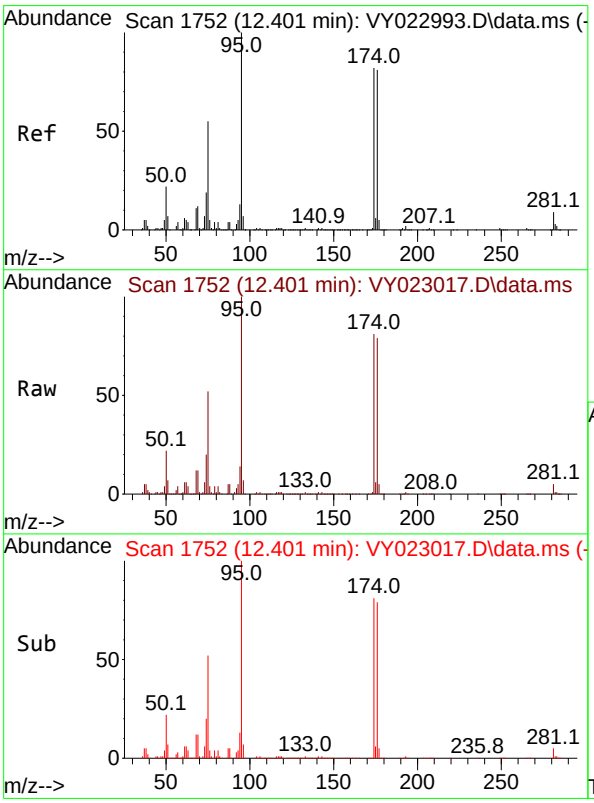
#61
1,2-Dibromoethane
Concen: 21.584 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:107 Resp: 64686

Ion	Ratio	Lower	Upper
107	100		
109	91.9	75.1	112.7

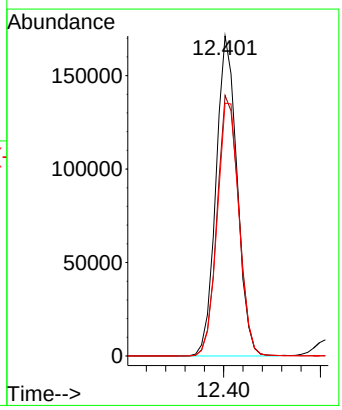


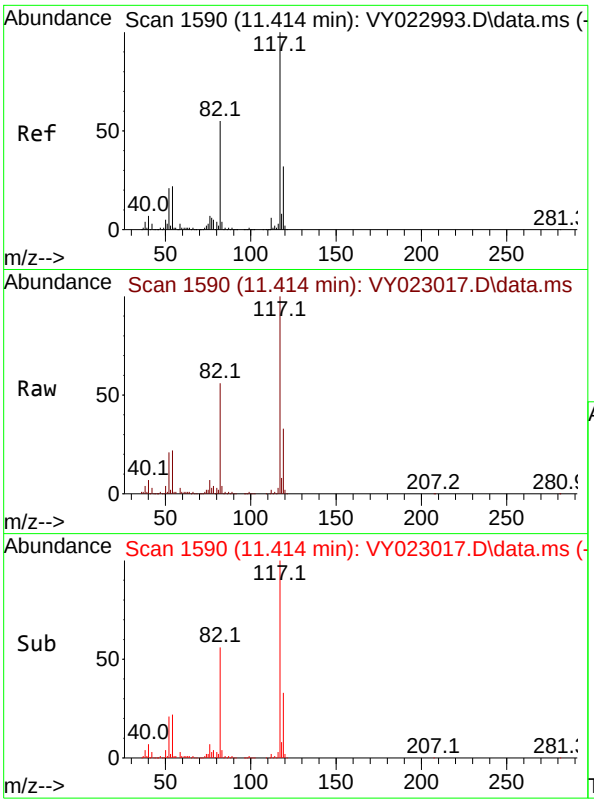


#62
4-Bromofluorobenzene
Concen: 47.182 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 95 Resp: 258332

Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	170.8
176	82.0	0.0	163.6



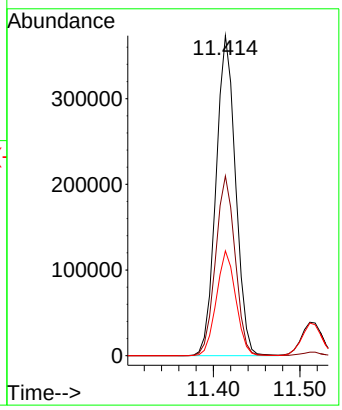


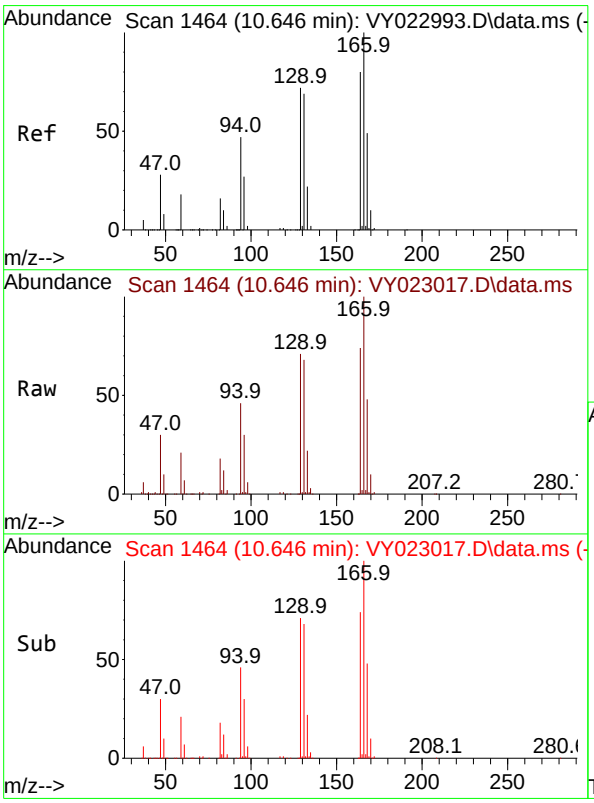
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:117 Resp: 586317

Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.3	66.5
119	32.7	25.8	38.8

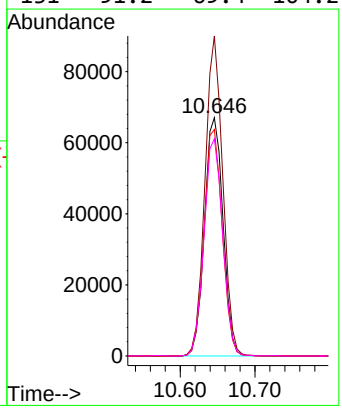


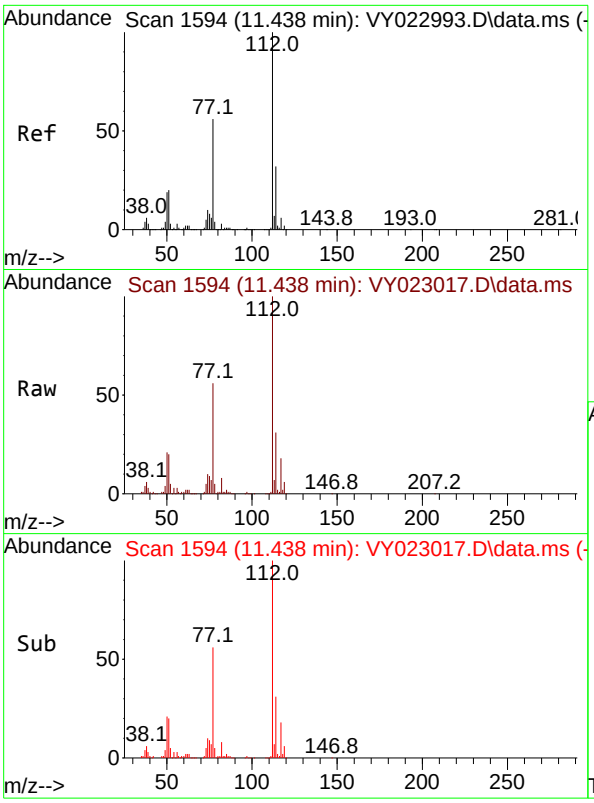


#64
Tetrachloroethene
Concen: 19.278 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:164 Resp: 115530

Ion	Ratio	Lower	Upper
164	100		
166	134.4	100.2	150.2
129	95.1	71.7	107.5
131	91.2	69.4	104.2



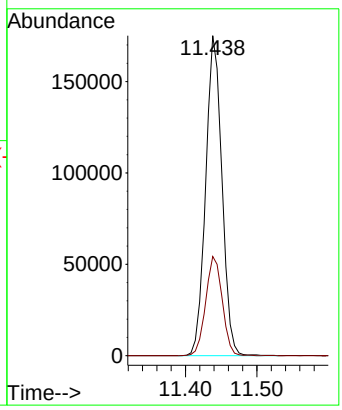


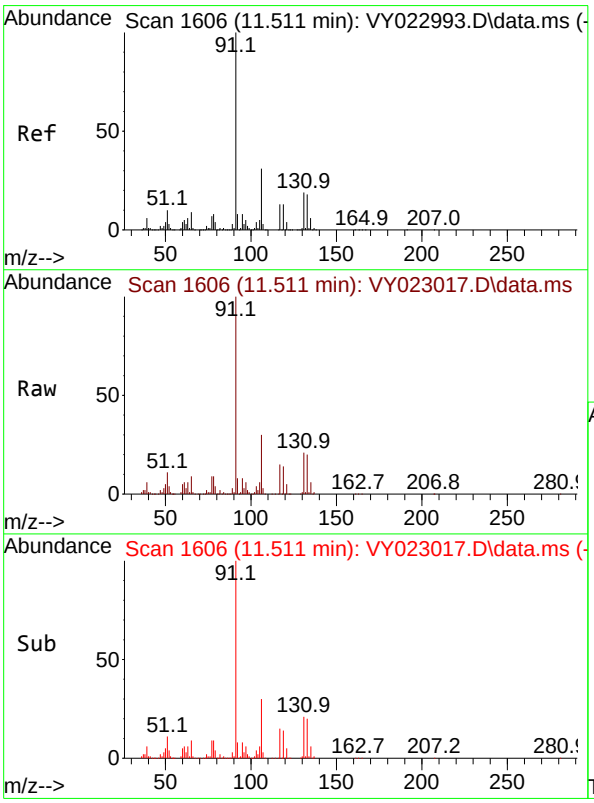
#65
Chlorobenzene
Concen: 19.972 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:112 Resp: 276316

Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.4	38.2

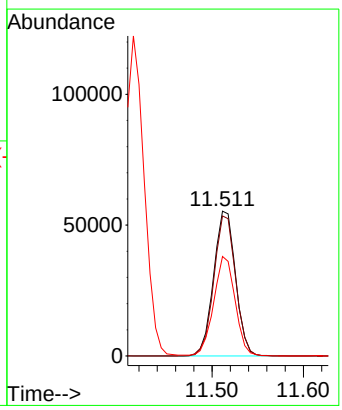


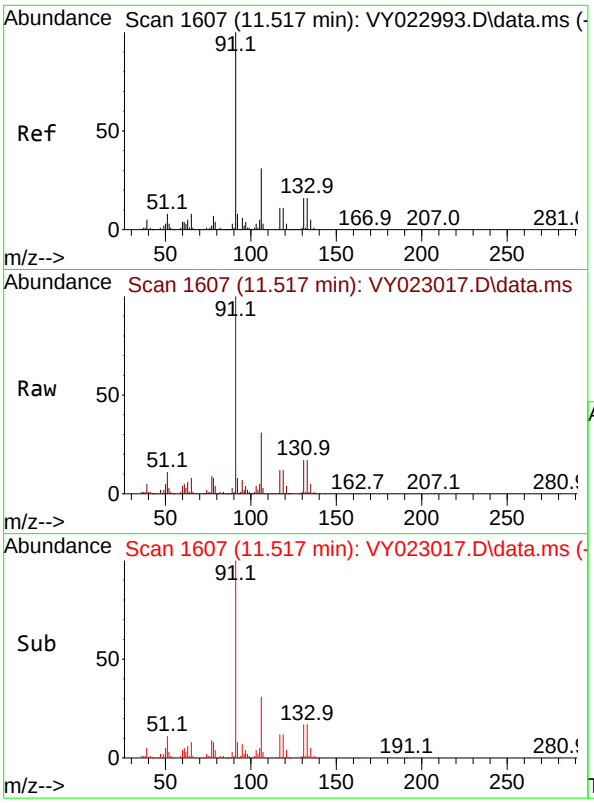


#66
1,1,1,2-Tetrachloroethane
Concen: 19.563 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:131 Resp: 92315

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.8	143.3
119	67.1	33.3	99.8



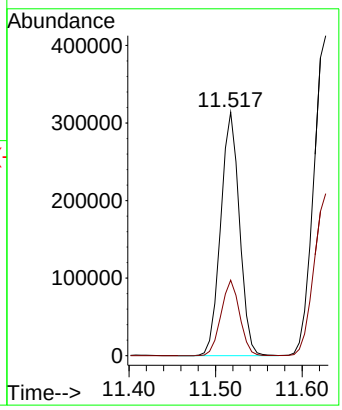


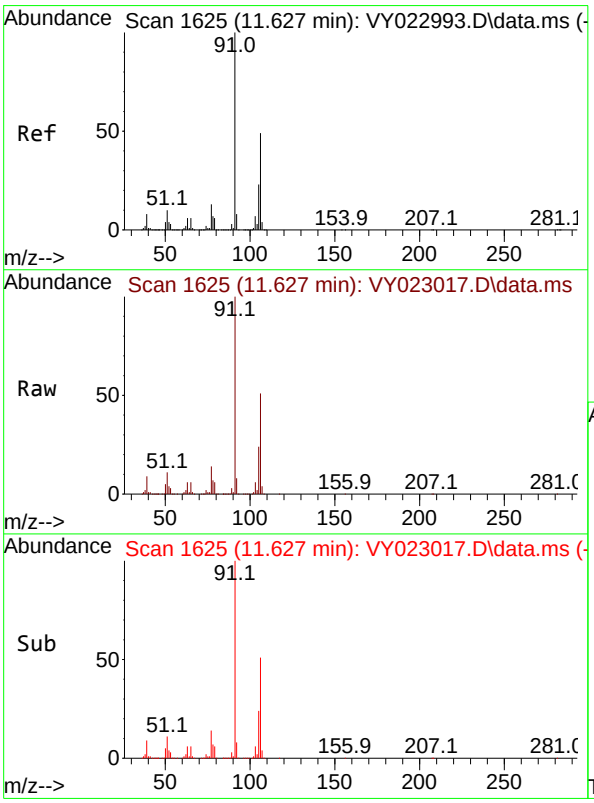
#67
Ethyl Benzene
Concen: 19.286 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 91 Resp: 472954

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0

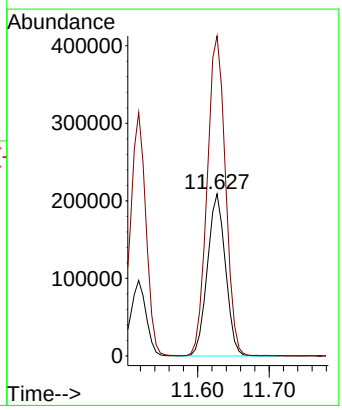


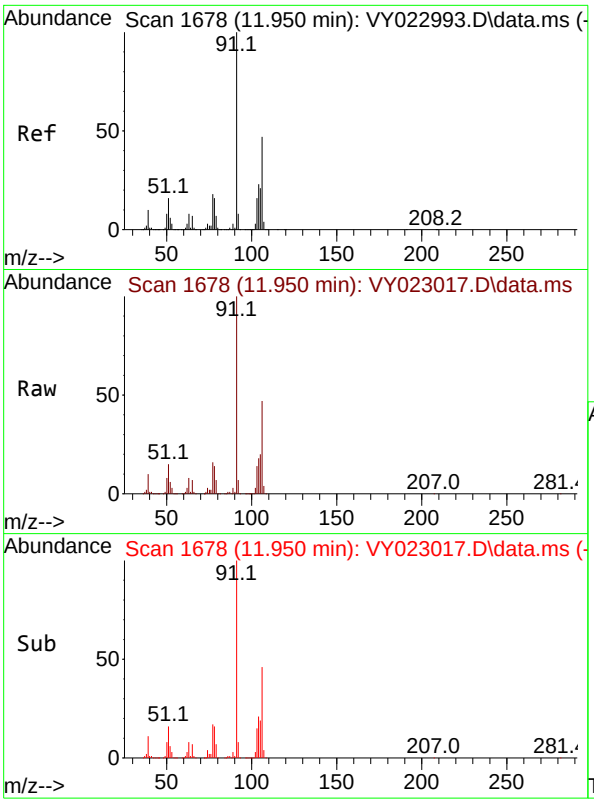


#68
m/p-Xylenes
Concen: 38.830 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:106 Resp: 365243

Ion	Ratio	Lower	Upper
106	100		
91	200.8	159.8	239.8



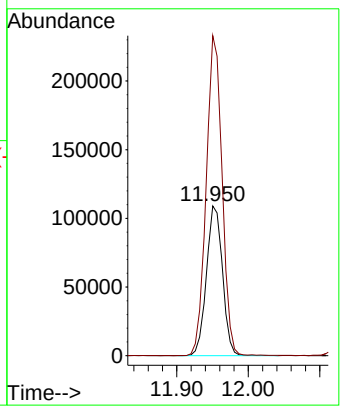


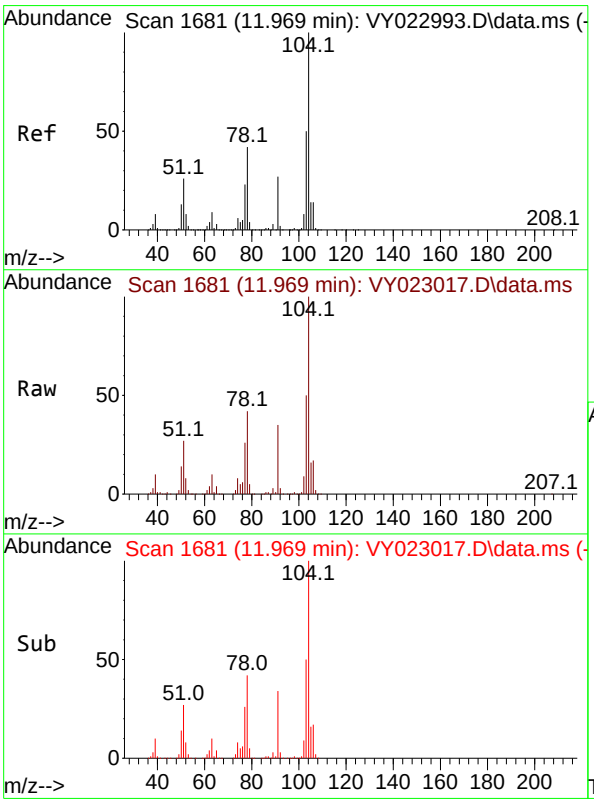
#69
o-Xylene
Concen: 19.457 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:106 Resp: 169844

Ion	Ratio	Lower	Upper
106	100		
91	212.1	106.3	318.8

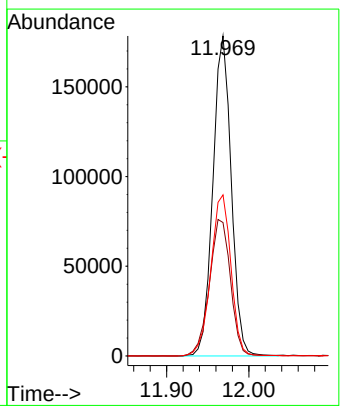


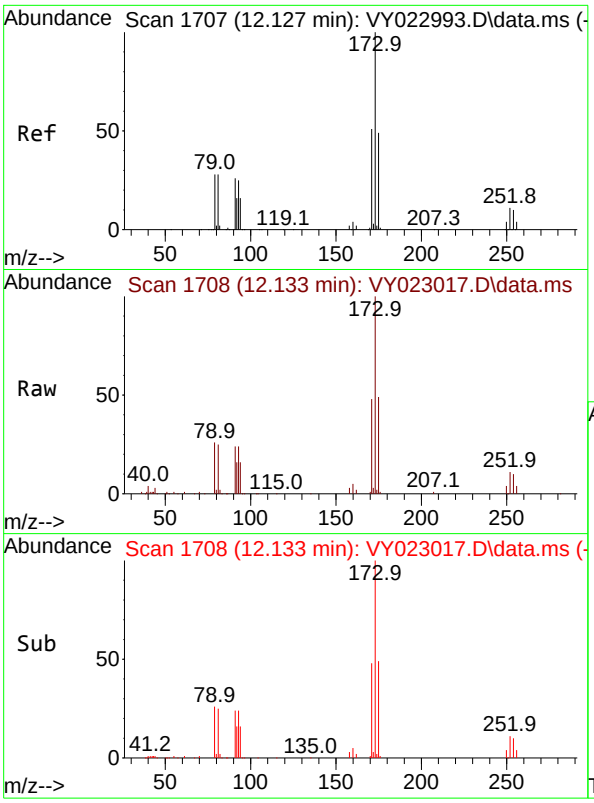


#70
Styrene
Concen: 19.367 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:104 Resp: 276934

Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.0	58.6
103	55.3	43.7	65.5



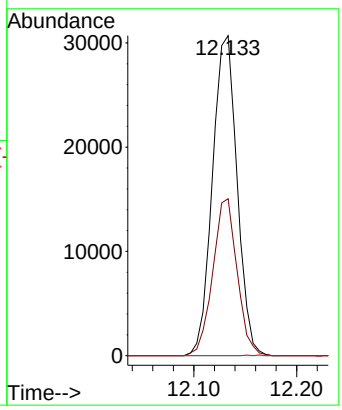


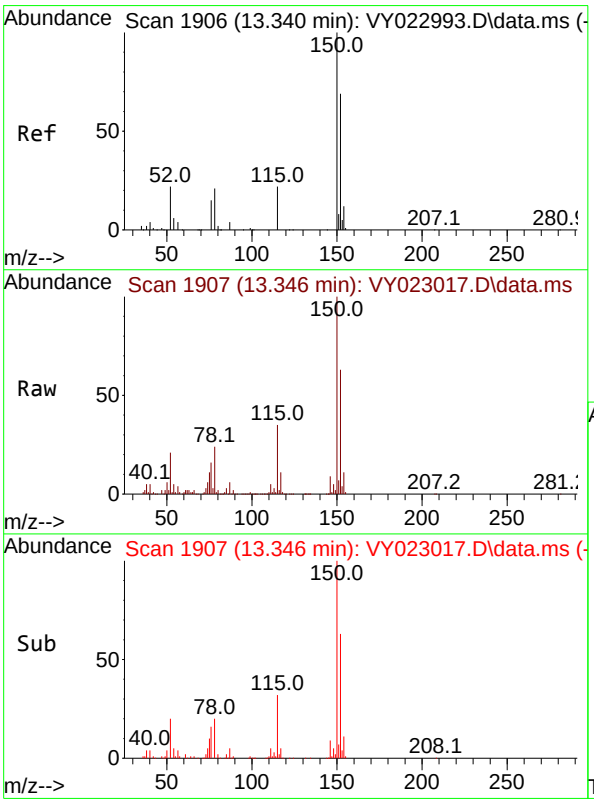
#71
Bromoform
Concen: 21.305 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:173 Resp: 51038

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.8
254	0.0	0.2	0.2#

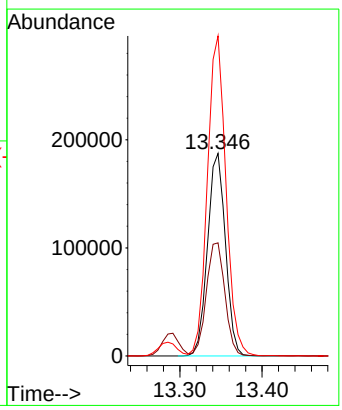


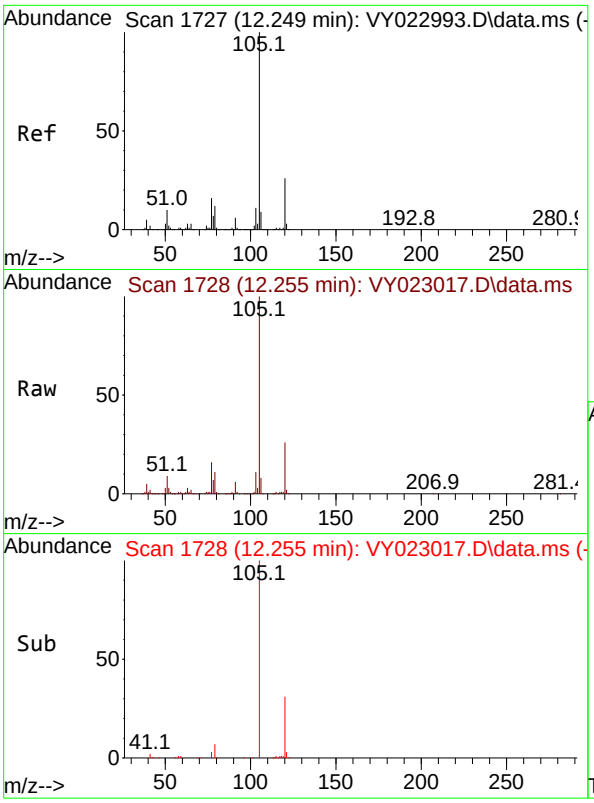


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:152 Resp: 283751

Ion	Ratio	Lower	Upper
152	100		
115	57.8	29.4	88.2
150	163.4	0.0	350.0



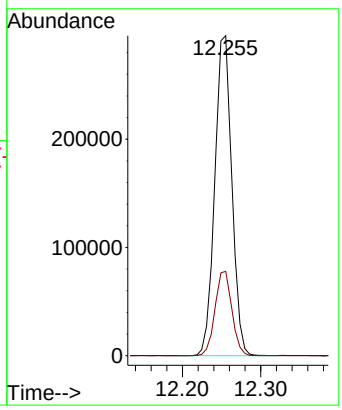


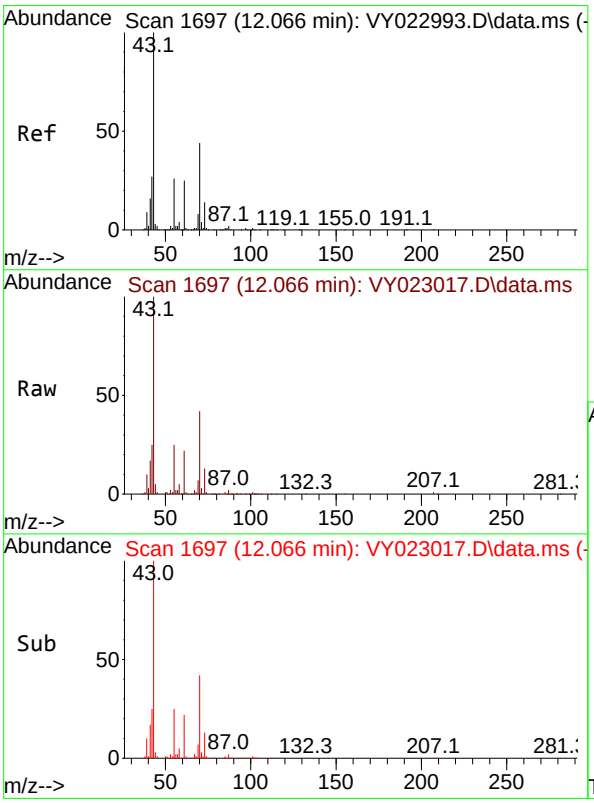
#73
Isopropylbenzene
Concen: 18.606 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:105 Resp: 447600

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

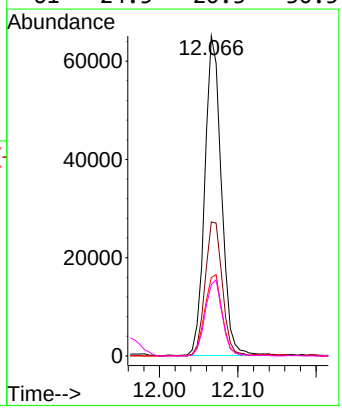


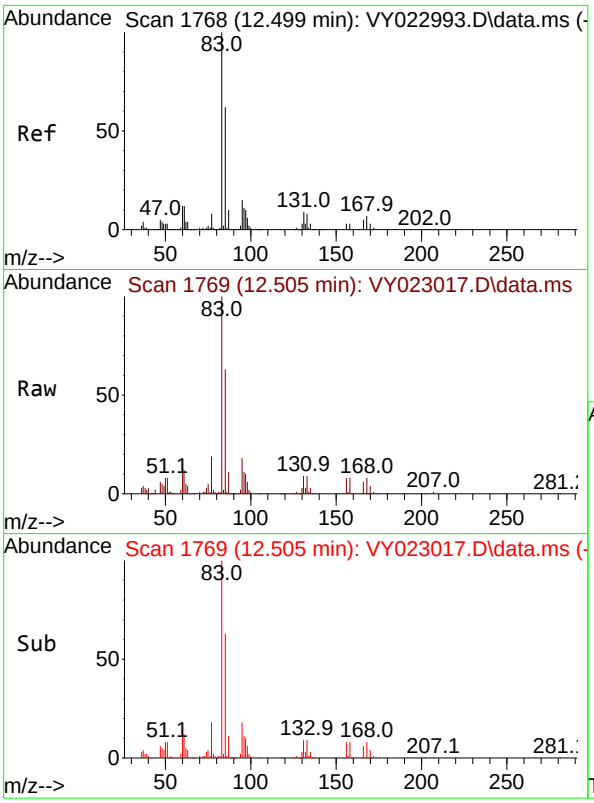


#74
N-amyl acetate
Concen: 21.128 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 43 Resp: 95827

Ion	Ratio	Lower	Upper
43	100		
70	43.3	36.2	54.2
55	26.2	20.9	31.3
61	24.5	20.3	30.5



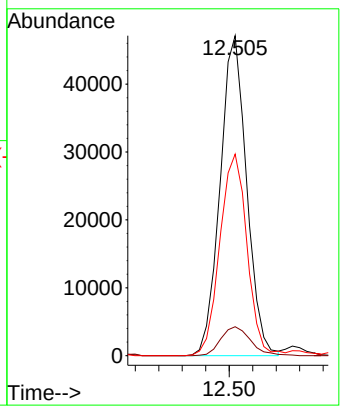


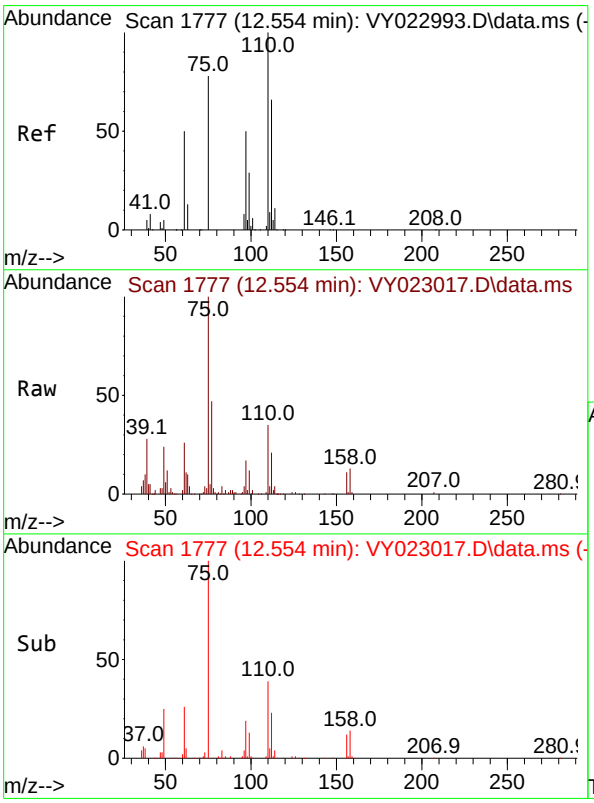
#75
1,1,2,2-Tetrachloroethane
Concen: 21.238 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 83 Resp: 73937

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	64.6	31.9	95.7

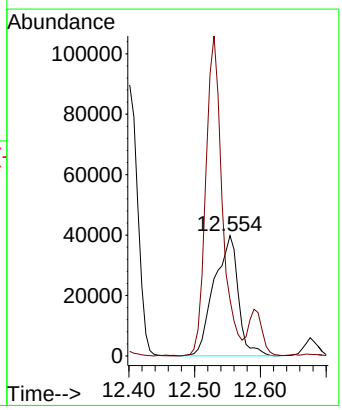


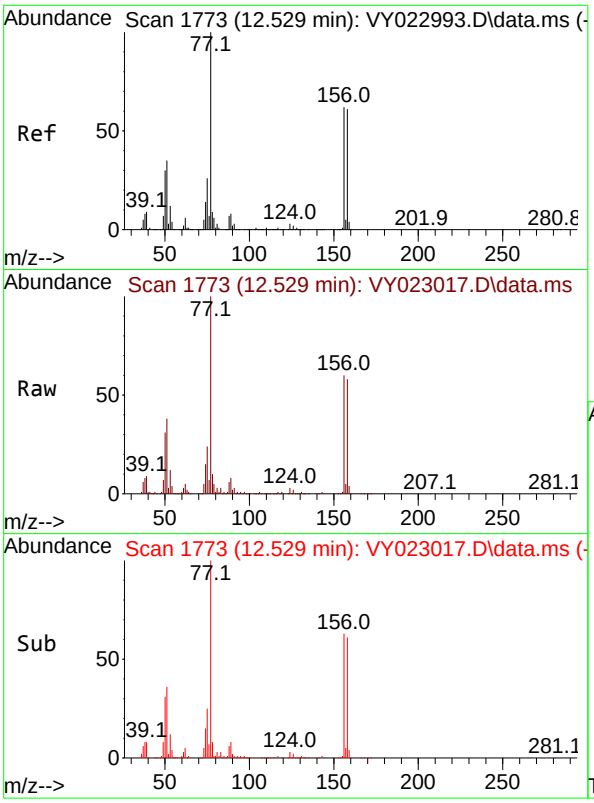


#76
1,2,3-Trichloropropane
Concen: 28.667 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 101359

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



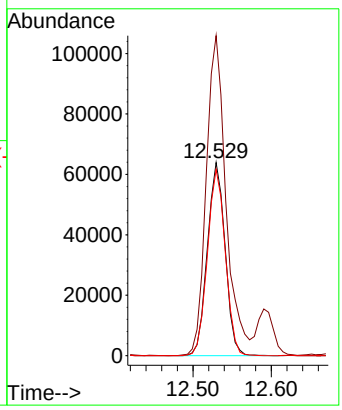


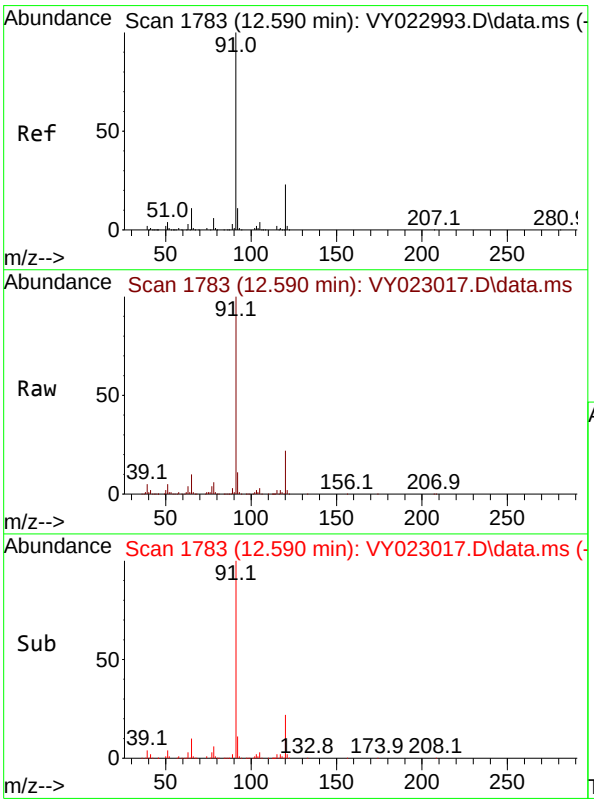
#77
Bromobenzene
Concen: 19.228 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:156 Resp: 100323

Ion	Ratio	Lower	Upper
156	100		
77	184.9	92.0	276.1
158	97.4	48.6	145.9

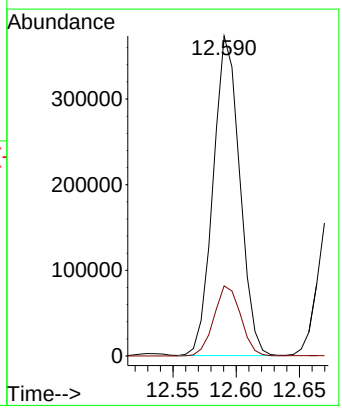


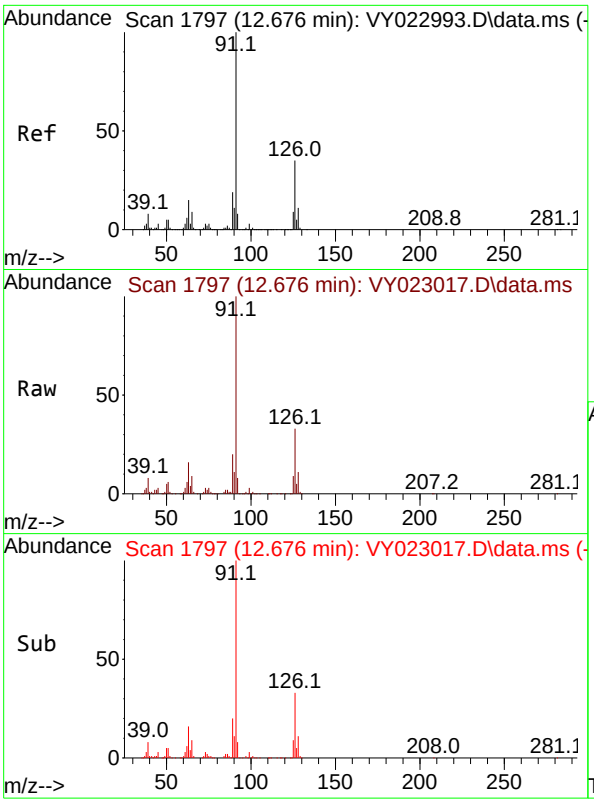


#78
n-propylbenzene
Concen: 19.027 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 545094

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.3	33.8



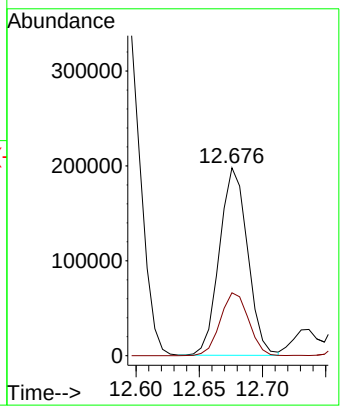


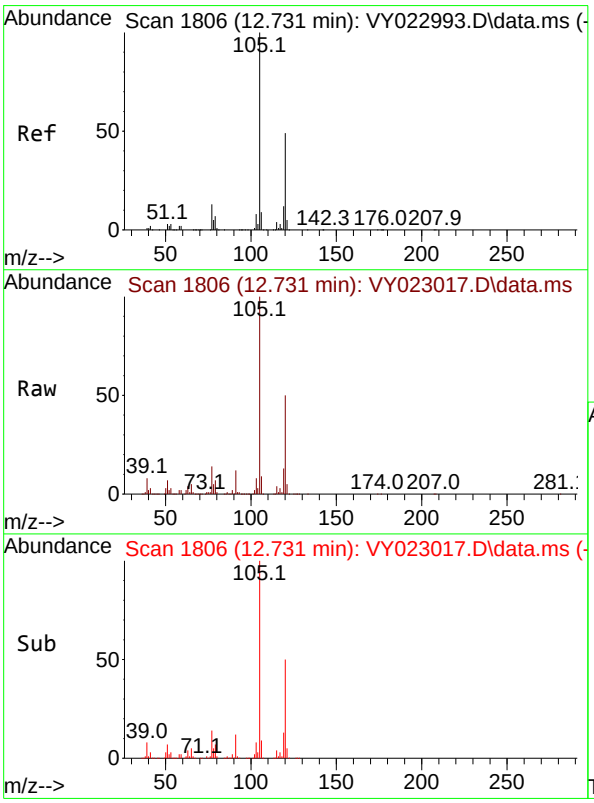
#79
2-Chlorotoluene
Concen: 19.016 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 91 Resp: 306395

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.0	50.9

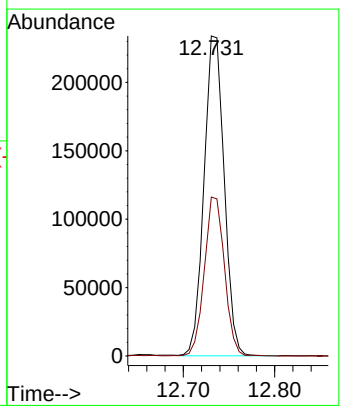


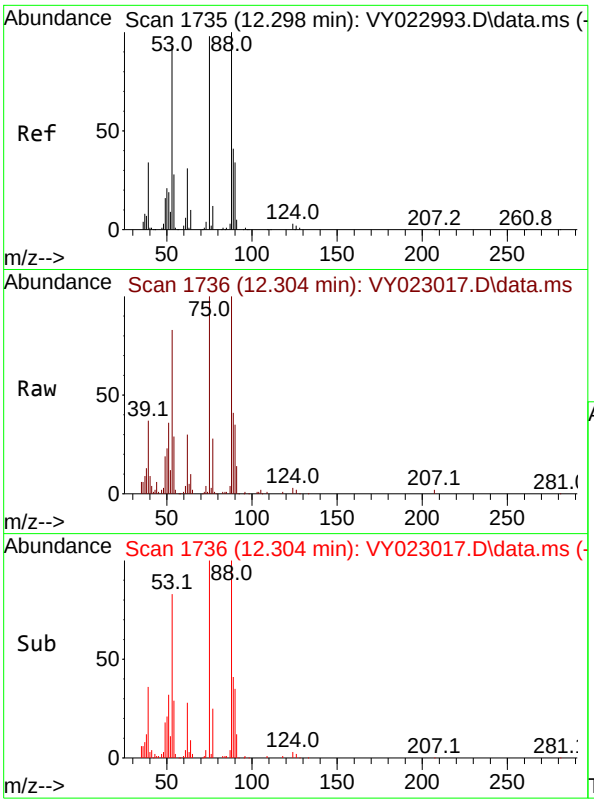


#80
1,3,5-Trimethylbenzene
Concen: 18.868 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:105 Resp: 357988

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.6	73.8



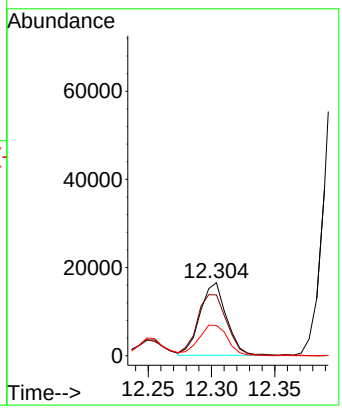


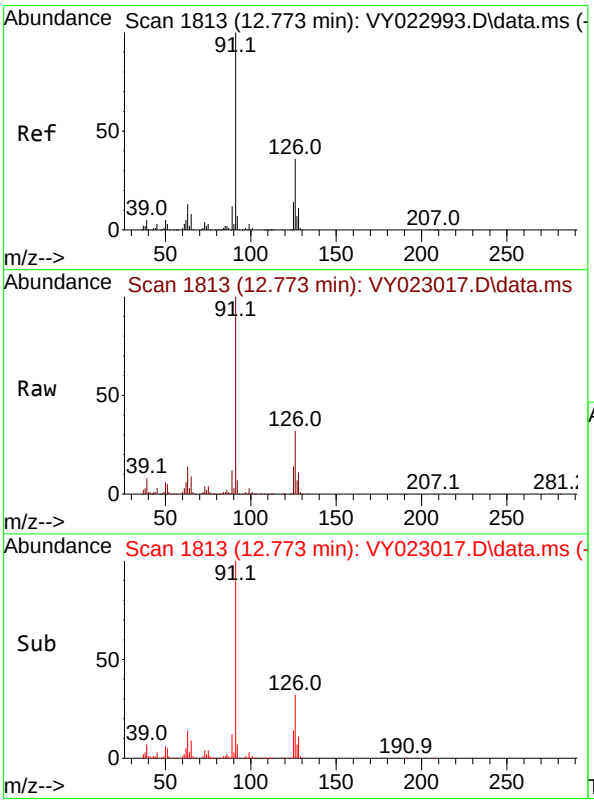
#81
trans-1,4-Dichloro-2-butene
Concen: 20.228 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 75 Resp: 24013

Ion	Ratio	Lower	Upper
75	100		
53	92.8	76.1	114.1
89	46.2	36.1	54.1

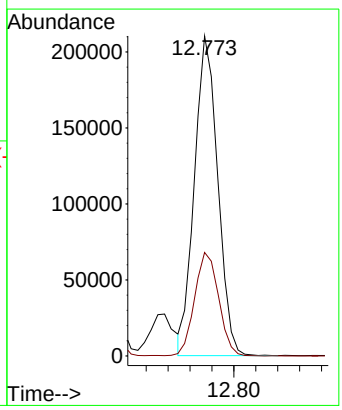


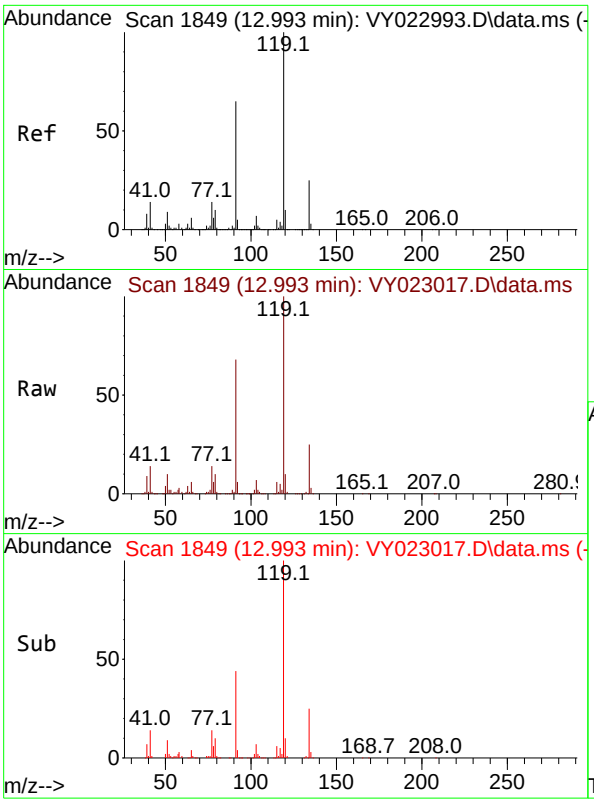


#82
4-Chlorotoluene
Concen: 19.124 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 91 Resp: 310771

Ion	Ratio	Lower	Upper
91	100		
126	33.6	17.2	51.5



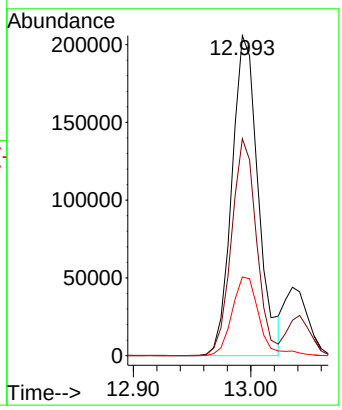


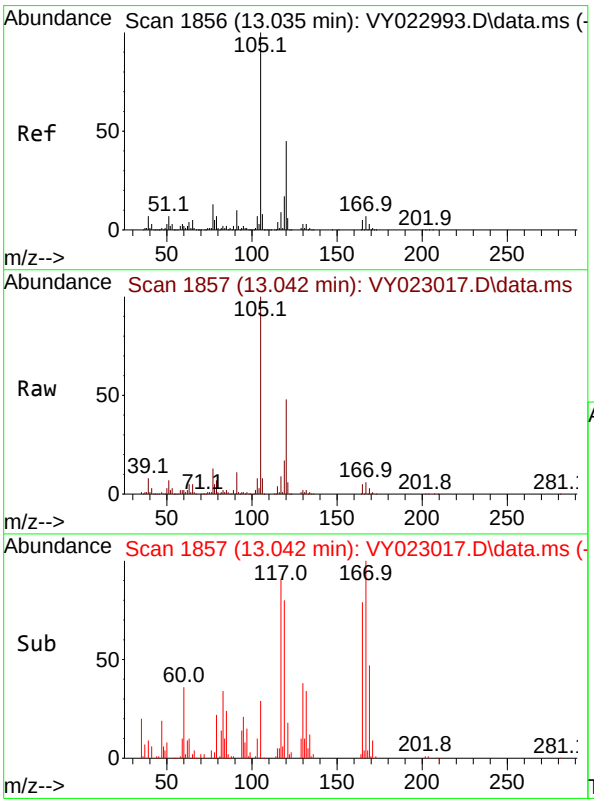
#83
tert-Butylbenzene
Concen: 18.666 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:119 Resp: 319915

Ion	Ratio	Lower	Upper
119	100		
91	64.6	32.0	96.2
134	25.4	12.6	37.6

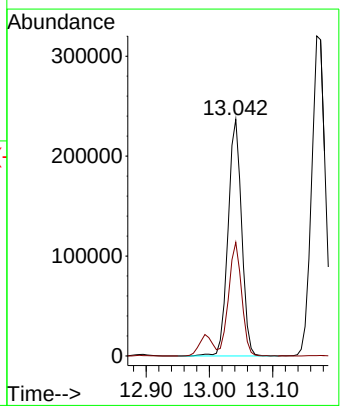


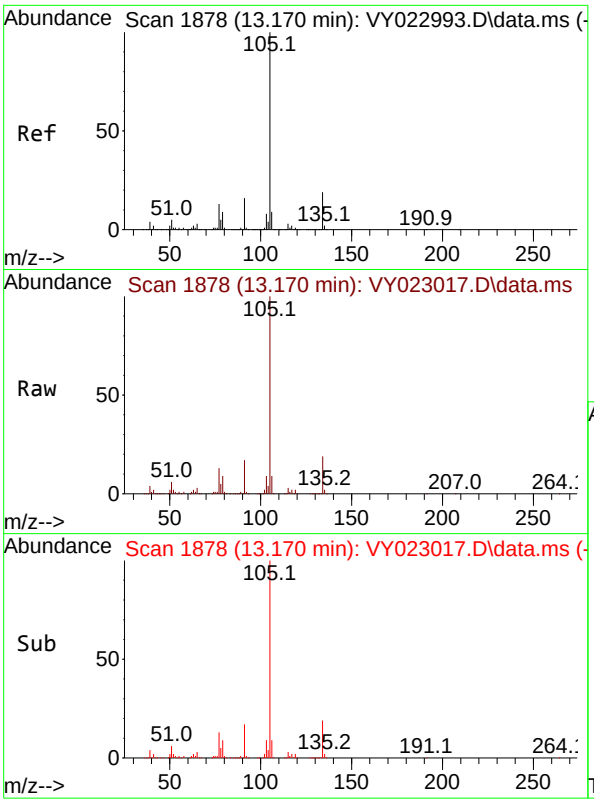


#84
1,2,4-Trimethylbenzene
Concen: 18.832 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:105 Resp: 351737

Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.8



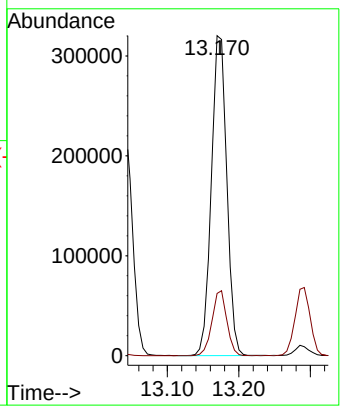


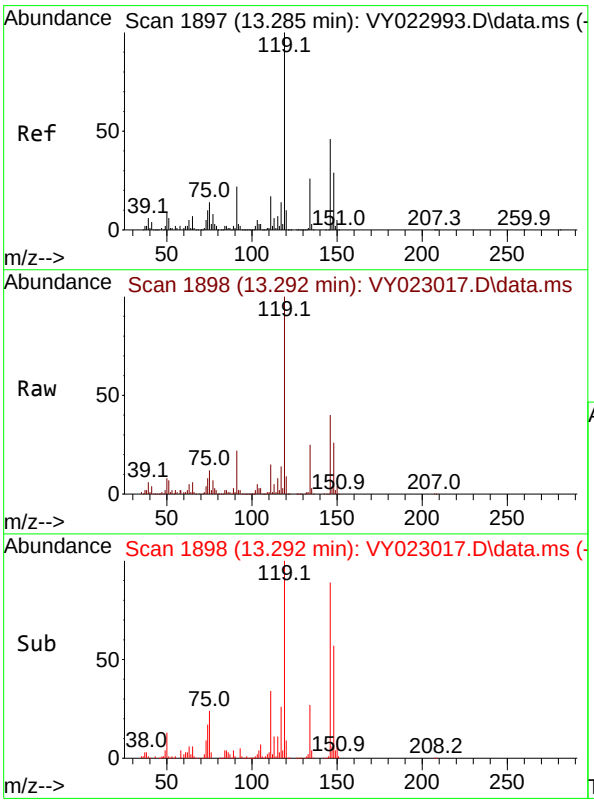
#85
sec-Butylbenzene
Concen: 18.712 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:105 Resp: 480603

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

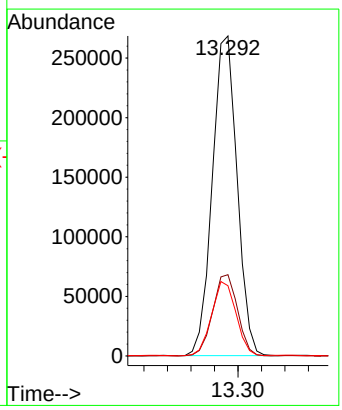


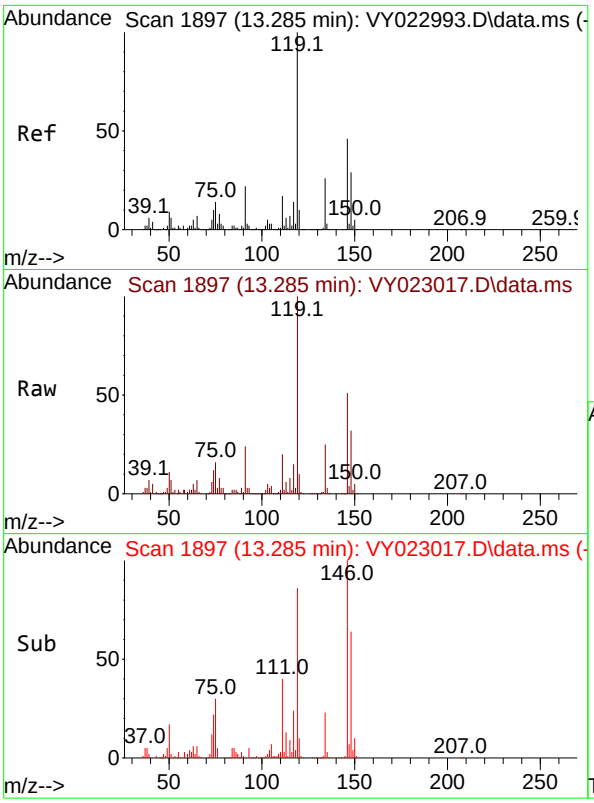


#86
p-Isopropyltoluene
Concen: 18.839 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:119 Resp: 392976

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.1	39.1
91	23.1	11.4	34.1



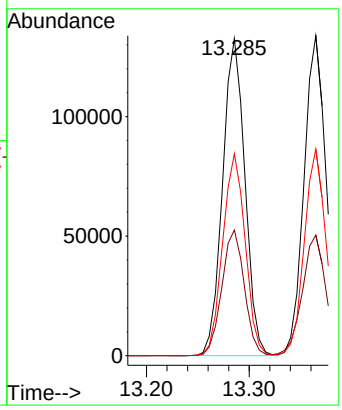


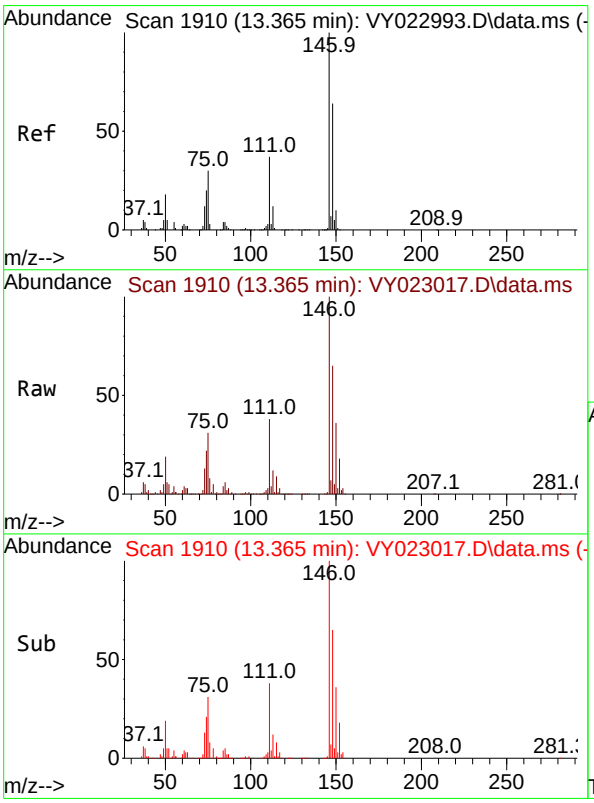
#87
1,3-Dichlorobenzene
Concen: 19.028 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:146 Resp: 200360

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.8	59.3
148	64.1	31.6	94.8

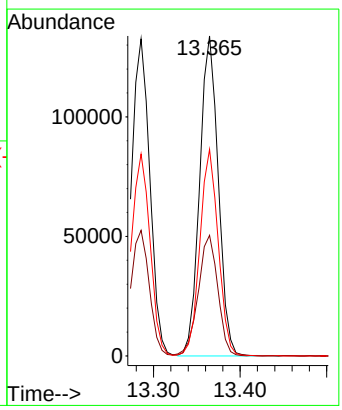


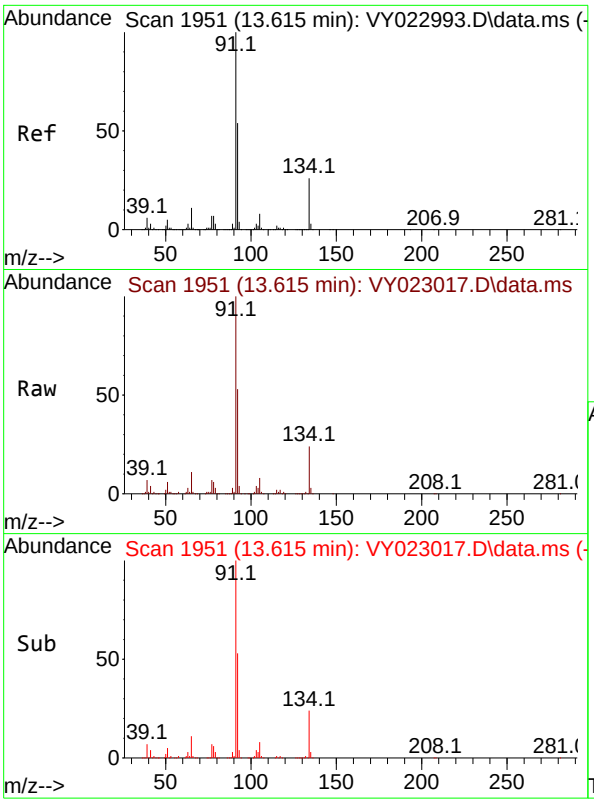


#88
1,4-Dichlorobenzene
Concen: 19.616 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:146 Resp: 199817

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.2	57.6
148	63.9	31.9	95.5



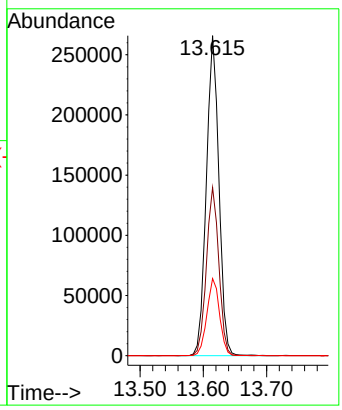


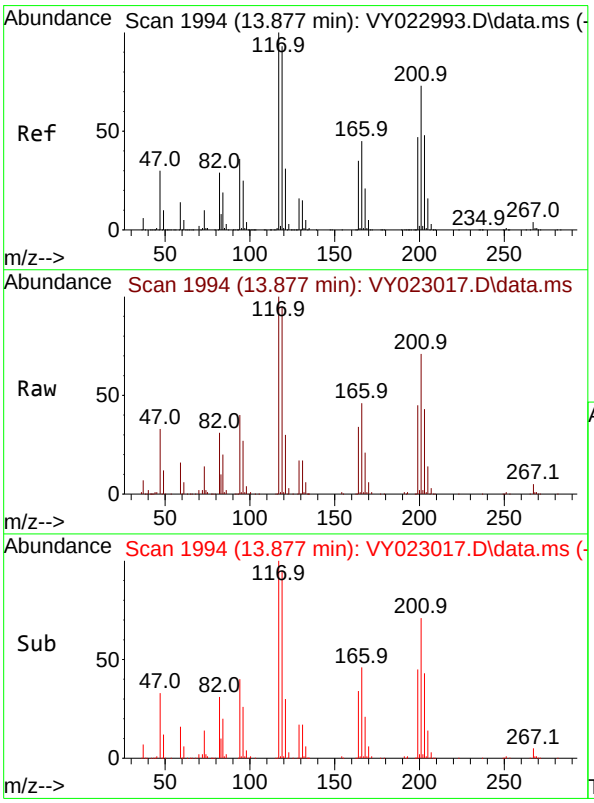
#89
n-Butylbenzene
Concen: 19.048 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion: 91 Resp: 366638

Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.6	79.7
134	24.4	12.6	37.6

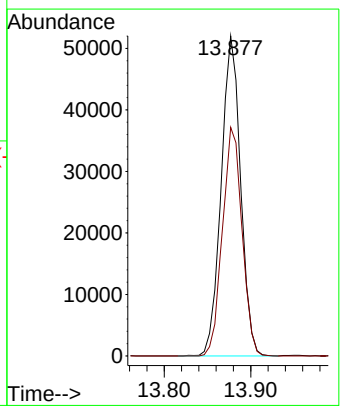


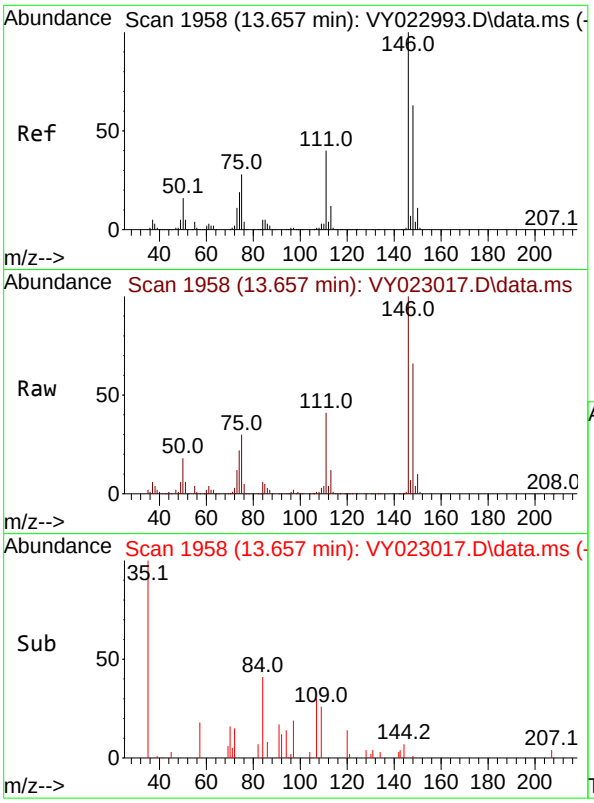


#90
Hexachloroethane
Concen: 18.751 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:117 Resp: 80981

Ion	Ratio	Lower	Upper
117	100		
201	72.0	36.1	108.5



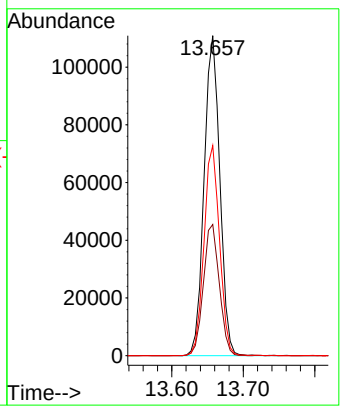


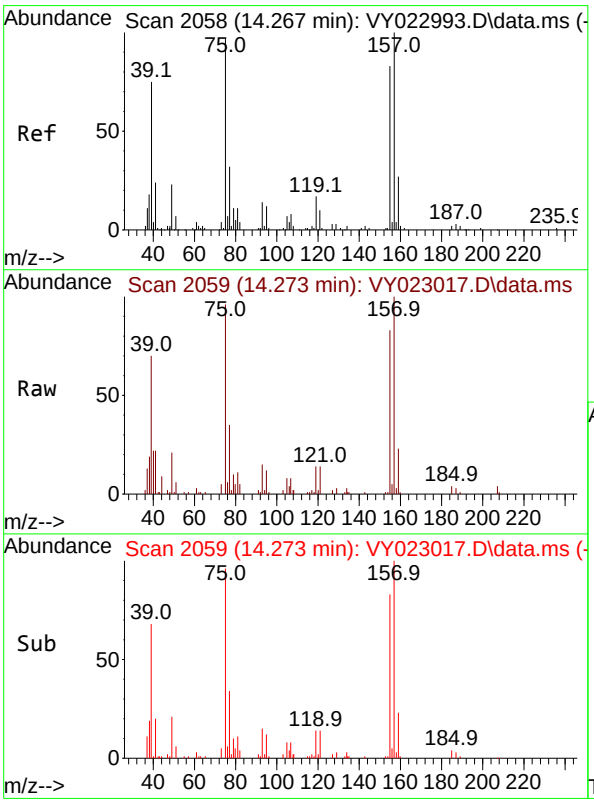
#91
1,2-Dichlorobenzene
Concen: 19.036 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:146 Resp: 169075

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.3	61.0
148	64.9	32.0	96.2

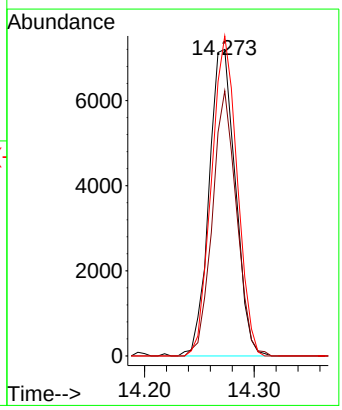


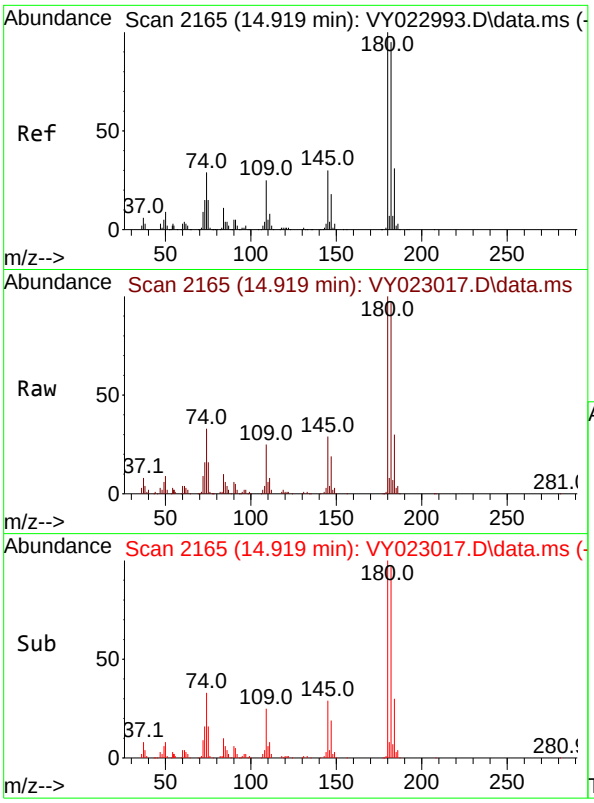


#92
1,2-Dibromo-3-Chloropropane
Concen: 23.243 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion: 75 Resp: 12015

Ion	Ratio	Lower	Upper
75	100		
155	79.4	42.8	128.3
157	101.9	54.3	162.9



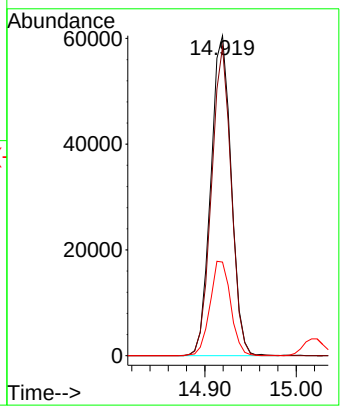


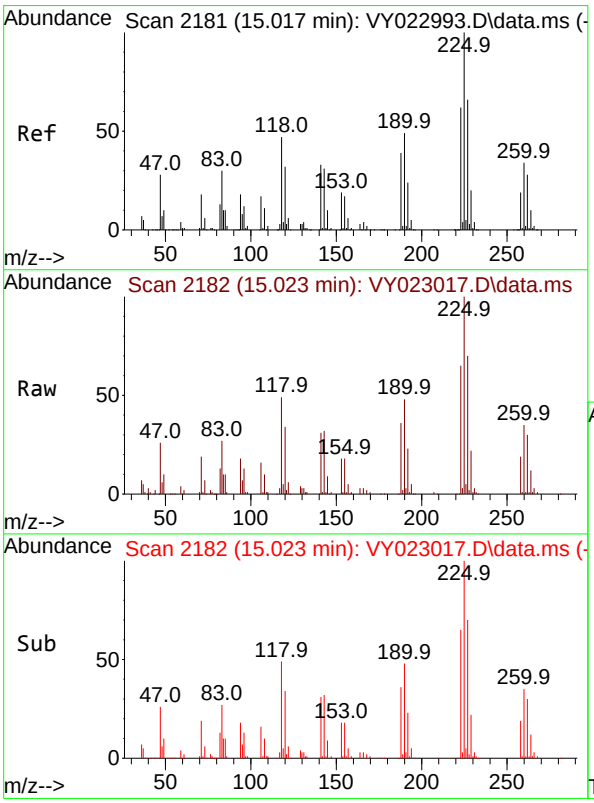
#93
1,2,4-Trichlorobenzene
Concen: 20.050 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:180 Resp: 93870

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.5	142.5
145	29.9	14.9	44.9

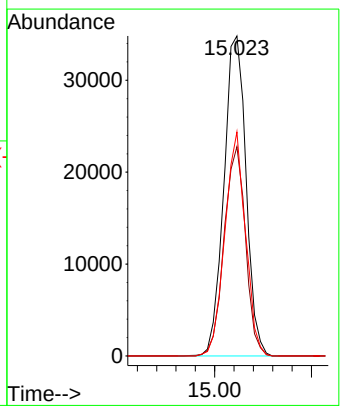


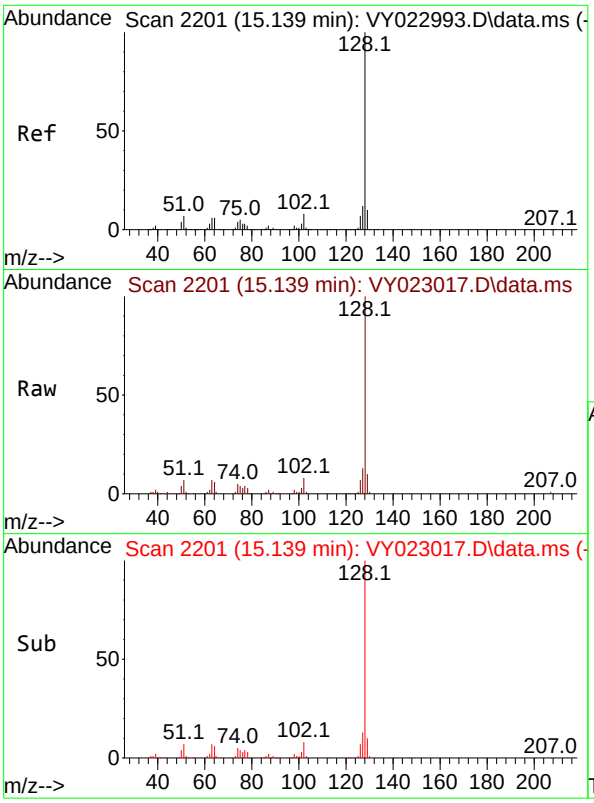


#94
Hexachlorobutadiene
Concen: 18.735 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:225 Resp: 55300

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.4	94.0
227	65.3	32.1	96.5



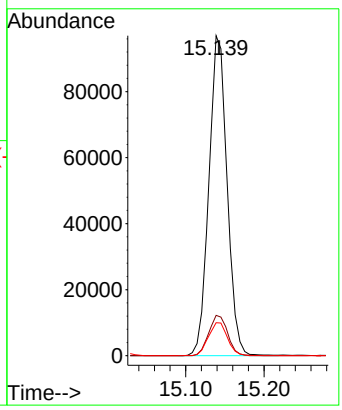


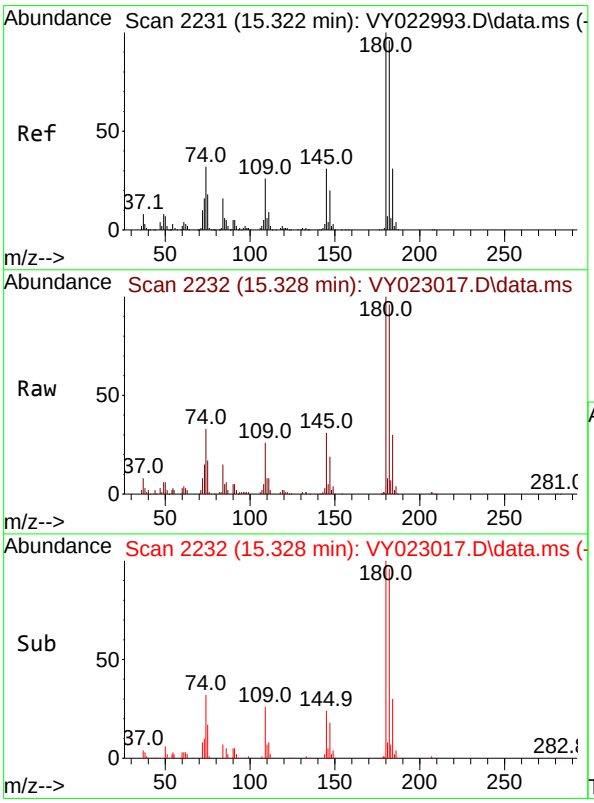
#95
Naphthalene
Concen: 20.828 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBS01

Tgt Ion:128 Resp: 156400

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	10.8	8.6	12.8

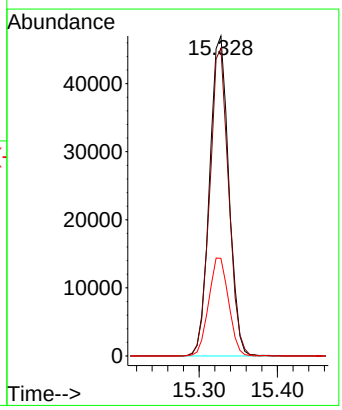




#96
1,2,3-Trichlorobenzene
Concen: 20.662 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023017.D
Acq: 21 Jul 2025 11:13

Tgt Ion:180 Resp: 79873

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	142.0
145	31.7	15.8	47.4



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	364935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	608629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	534345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	267706	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	200633	54.308	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.620%			
35) Dibromofluoromethane	7.634	113	188725	48.883	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.760%			
50) Toluene-d8	10.103	98	750336	49.009	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.020%			
62) 4-Bromofluorobenzene	12.402	95	239984	49.795	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	126982	40.979	ug/l	98
3) Chloromethane	2.068	50	269659	51.179	ug/l	98
4) Vinyl Chloride	2.202	62	341701	51.189	ug/l	100
5) Bromomethane	2.592	94	257125	53.371	ug/l	99
6) Chloroethane	2.733	64	241112	54.083	ug/l	95
7) Trichlorofluoromethane	3.056	101	357561	46.144	ug/l	99
8) Diethyl Ether	3.452	74	97187	47.921	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	180521	44.347	ug/l	99
10) Methyl Iodide	4.001	142	210246	49.718	ug/l	100
11) Tert butyl alcohol	4.860	59	59487	266.251	ug/l	100
12) 1,1-Dichloroethene	3.787	96	174127	44.904	ug/l	100
13) Acrolein	3.653	56	11930	113.632	ug/l	97
14) Allyl chloride	4.379	41	278218	47.094	ug/l	97
15) Acrylonitrile	5.055	53	209182	272.310	ug/l	99
16) Acetone	3.867	43	152093	227.117	ug/l	99
17) Carbon Disulfide	4.104	76	533311	45.378	ug/l	99
18) Methyl Acetate	4.385	43	153573	67.737	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	486107	52.263	ug/l	100
20) Methylene Chloride	4.610	84	245177	52.461	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	204974	47.486	ug/l	96
22) Diisopropyl ether	6.013	45	645325	51.489	ug/l	96
23) Vinyl Acetate	5.958	43	1585664	251.092	ug/l	100
24) 1,1-Dichloroethane	5.909	63	390117	49.557	ug/l	99
25) 2-Butanone	6.890	43	249667	259.880	ug/l	99
26) 2,2-Dichloropropane	6.884	77	299317	43.384	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	244418	49.131	ug/l	99
28) Bromochloromethane	7.244	49	163732	53.625	ug/l	98
29) Tetrahydrofuran	7.256	42	167649	275.629	ug/l	98
30) Chloroform	7.421	83	405722	51.090	ug/l	98
31) Cyclohexane	7.701	56	318510	43.302	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	345470	47.946	ug/l	98
36) 1,1-Dichloropropene	7.829	75	279833	46.015	ug/l	100
37) Ethyl Acetate	6.982	43	110808	49.061	ug/l	100
38) Carbon Tetrachloride	7.817	117	300995	45.558	ug/l	98
39) Methylcyclohexane	9.103	83	347320	44.125	ug/l	99
40) Benzene	8.079	78	892923	48.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.214	41	66052	53.684	ug/l		99
42) 1,2-Dichloroethane	8.158	62	237723	52.184	ug/l		99
43) Isopropyl Acetate	8.195	43	232858	51.904	ug/l	#	86
44) Trichloroethene	8.860	130	213038	45.298	ug/l		91
45) 1,2-Dichloropropane	9.140	63	209857	49.079	ug/l		95
46) Dibromomethane	9.225	93	113255	51.242	ug/l		99
47) Bromodichloromethane	9.420	83	306564	50.179	ug/l		98
48) Methyl methacrylate	9.219	41	120235	55.511	ug/l		98
49) 1,4-Dioxane	9.225	88	25465	1093.044	ug/l		90
51) 4-Methyl-2-Pentanone	9.994	43	625368	274.629	ug/l		99
52) Toluene	10.170	92	552862	48.565	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	261758	49.912	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	314351	49.731	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	148571	51.144	ug/l		97
56) Ethyl methacrylate	10.439	69	192668	53.131	ug/l		99
57) 1,3-Dichloropropane	10.713	76	261483	52.107	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	491519	276.893	ug/l		100
59) 2-Hexanone	10.756	43	412272	275.436	ug/l		100
60) Dibromochloromethane	10.908	129	196174	51.572	ug/l		100
61) 1,2-Dibromoethane	11.012	107	137078	51.963	ug/l		99
64) Tetrachloroethene	10.646	164	230259	42.158	ug/l		98
65) Chlorobenzene	11.438	112	591032	46.874	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.512	131	205201	47.714	ug/l		100
67) Ethyl Benzene	11.518	91	1054339	47.175	ug/l		100
68) m/p-Xylenes	11.627	106	809746	94.459	ug/l		100
69) o-Xylene	11.950	106	381261	47.923	ug/l		99
70) Styrene	11.963	104	649988	49.878	ug/l		100
71) Bromoform	12.127	173	107452	49.216	ug/l	#	98
73) Isopropylbenzene	12.249	105	988566	43.555	ug/l		100
74) N-amyl acetate	12.066	43	198406	46.366	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.499	83	162073	49.344	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	217881	65.315	ug/l	#	100
77) Bromobenzene	12.530	156	221834	45.064	ug/l		99
78) n-propylbenzene	12.591	91	1209202	44.738	ug/l		100
79) 2-Chlorotoluene	12.676	91	672715	44.254	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	807990	45.137	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	49252	43.976	ug/l		99
82) 4-Chlorotoluene	12.774	91	702672	45.832	ug/l		99
83) tert-Butylbenzene	12.993	119	714791	44.206	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	810500	45.996	ug/l		99
85) sec-Butylbenzene	13.170	105	1075896	44.401	ug/l		100
86) p-Isopropyltoluene	13.286	119	882609	44.848	ug/l		99
87) 1,3-Dichlorobenzene	13.280	146	443132	44.606	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	430652	44.810	ug/l		99
89) n-Butylbenzene	13.615	91	824788	45.418	ug/l		99
90) Hexachloroethane	13.877	117	180473	44.294	ug/l		99
91) 1,2-Dichlorobenzene	13.651	146	385924	46.055	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	25174	51.619	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	201178	45.546	ug/l		100
94) Hexachlorobutadiene	15.017	225	118232	42.457	ug/l		99
95) Naphthalene	15.139	128	357137	50.411	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	170114	46.643	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

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

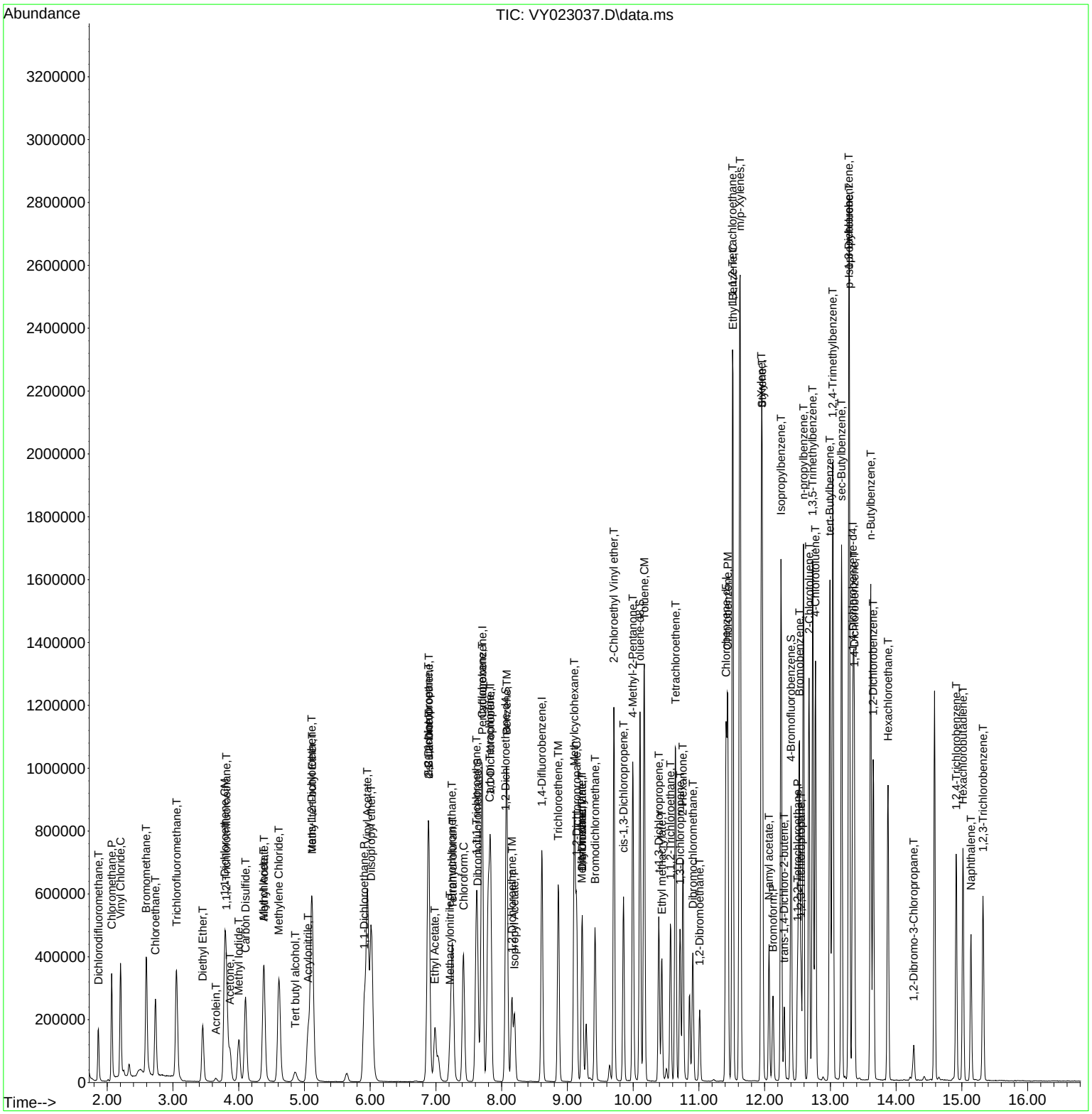
(#) = qualifier out of range (m) = manual integration (+) = signals summed

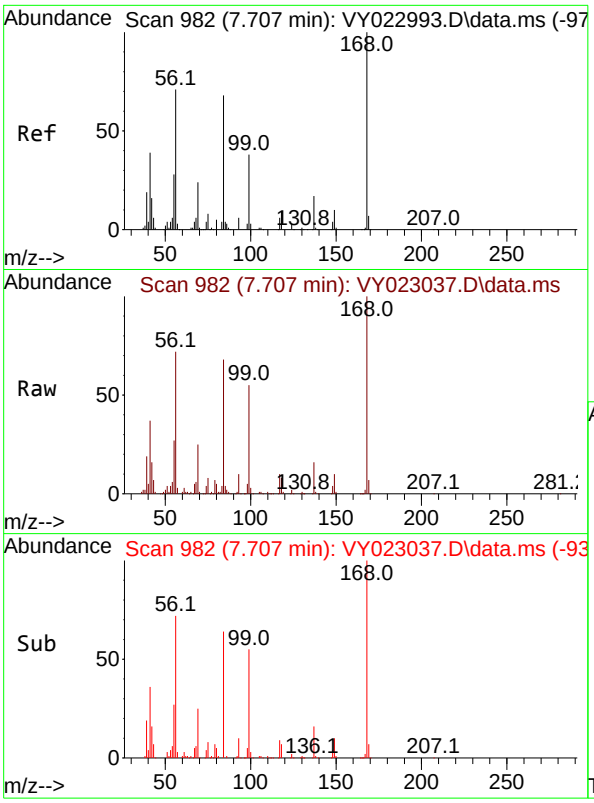
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
Data File : VY023037.D
Acq On : 21 Jul 2025 19:16
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Jul 22 04:56:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration



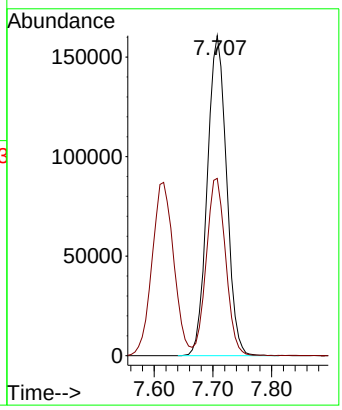


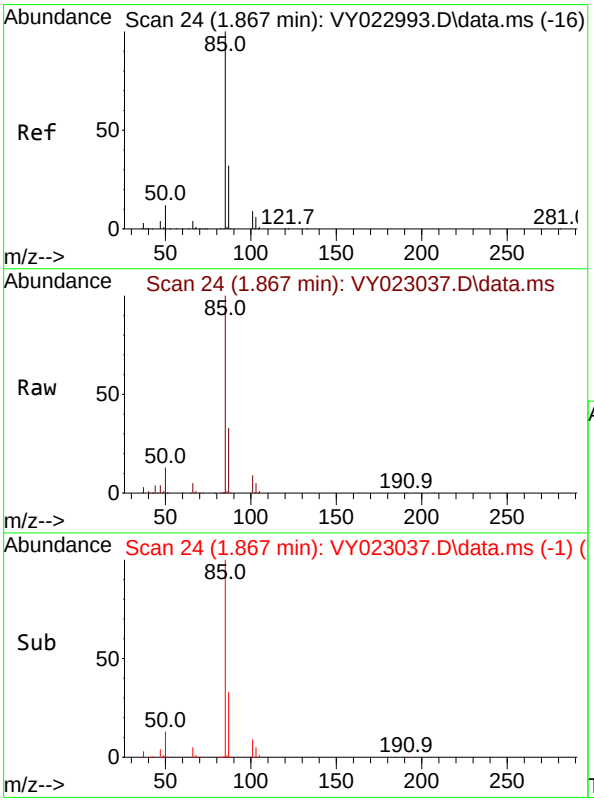
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 364935

Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.4	66.6

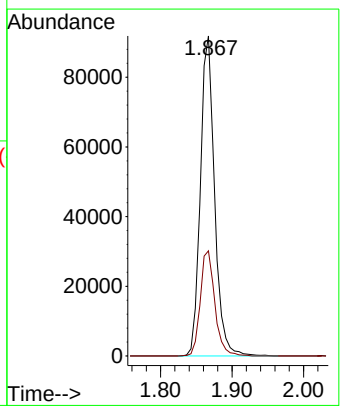


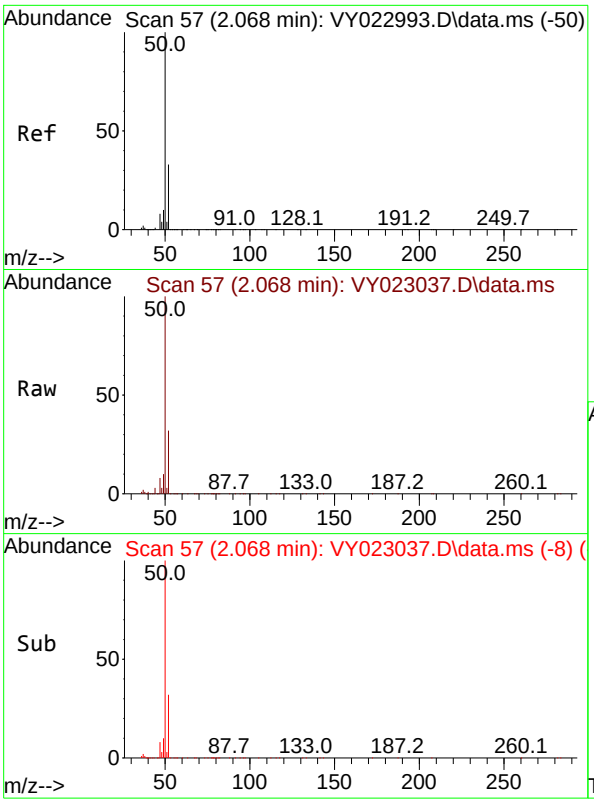


#2
Dichlorodifluoromethane
Concen: 40.979 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 85 Resp: 126982

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.0	47.9



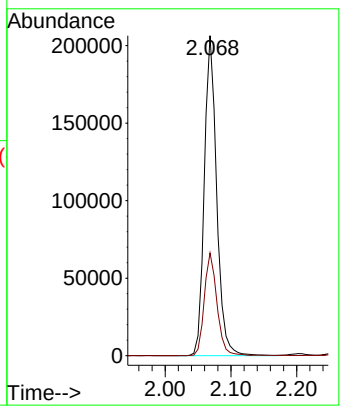


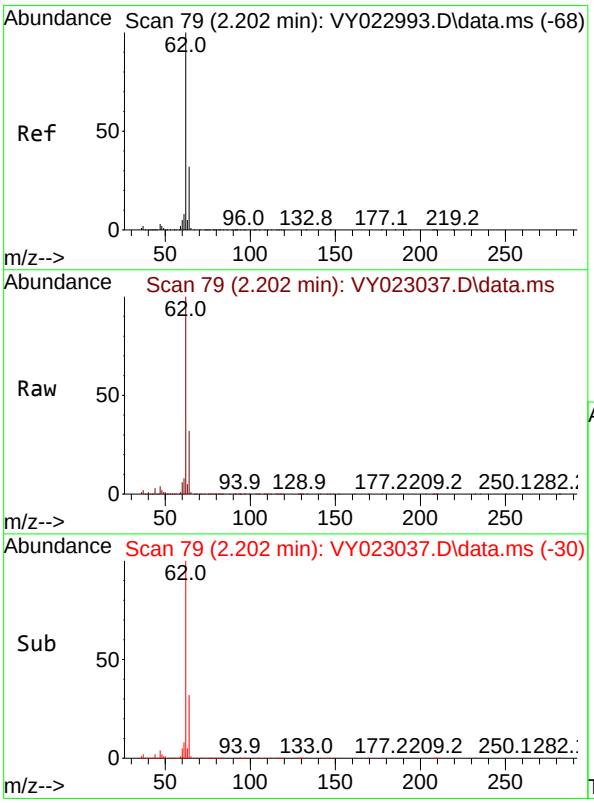
#3
Chloromethane
Concen: 51.179 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 269659

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.6	39.8

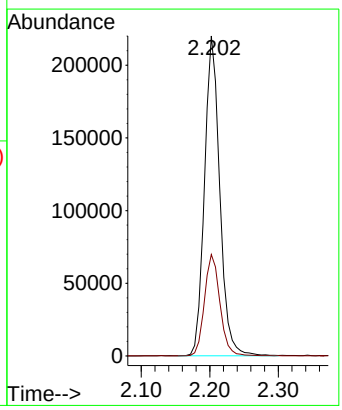


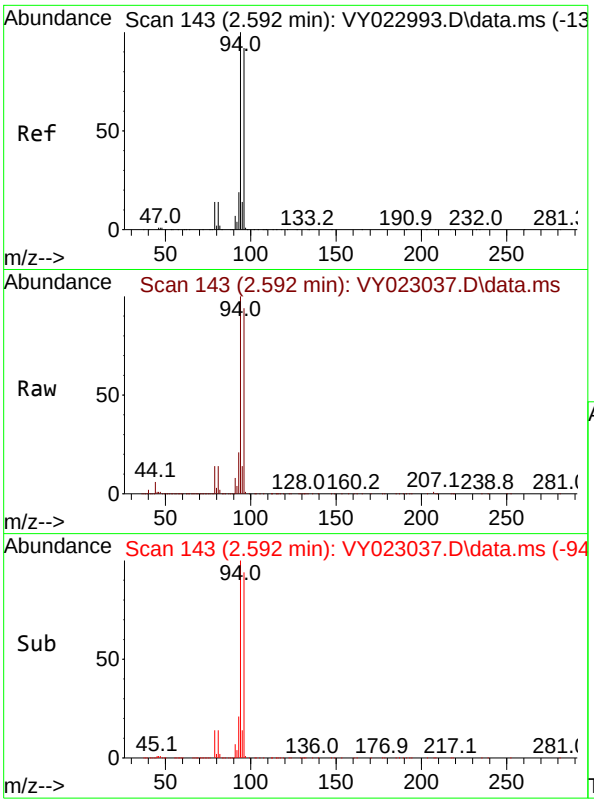


#4
Vinyl Chloride
Concen: 51.189 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 62 Resp: 341701

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.2	37.8



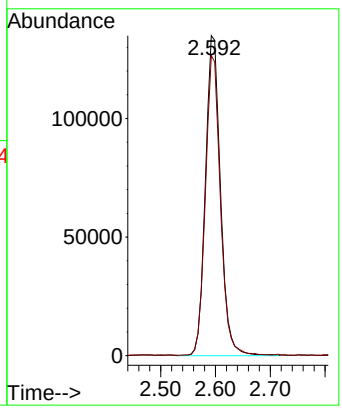


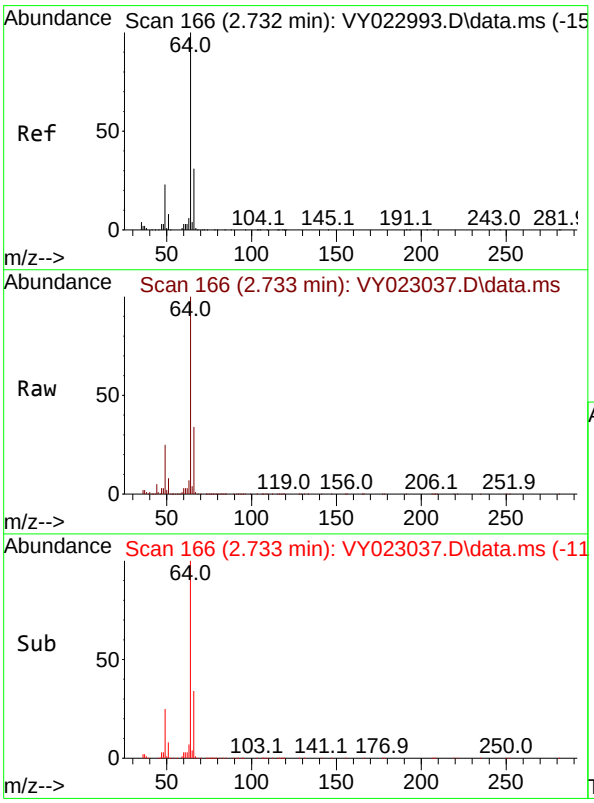
#5
Bromomethane
Concen: 53.371 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 257125

Ion	Ratio	Lower	Upper
94	100		
96	93.6	73.9	110.9

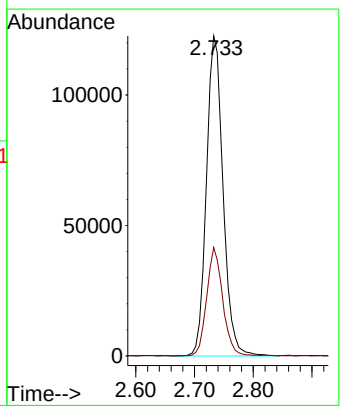


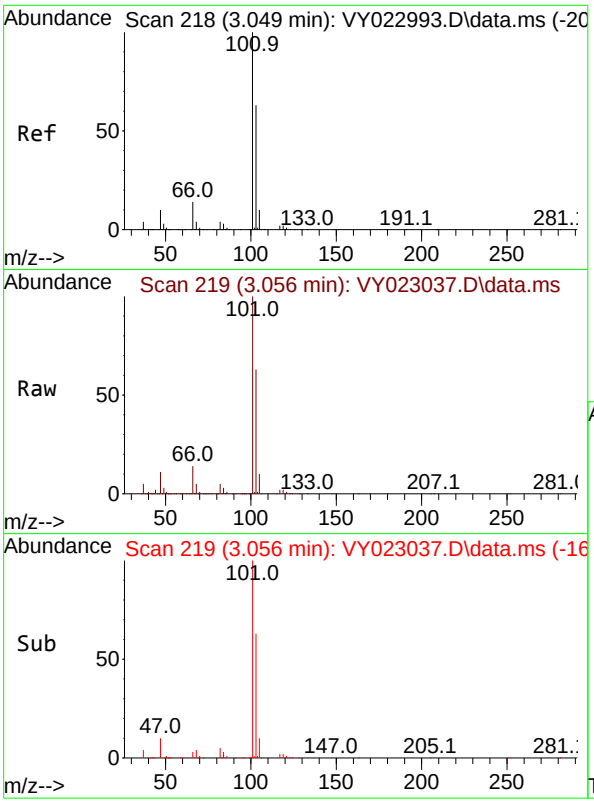


#6
Chloroethane
Concen: 54.083 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 64 Resp: 241112

Ion	Ratio	Lower	Upper
64	100		
66	33.9	24.9	37.3



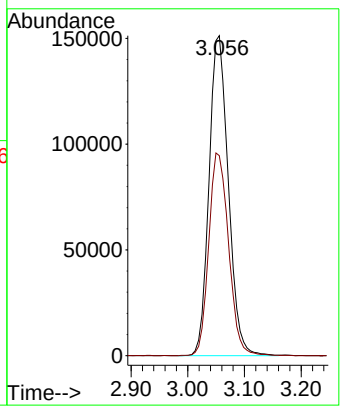


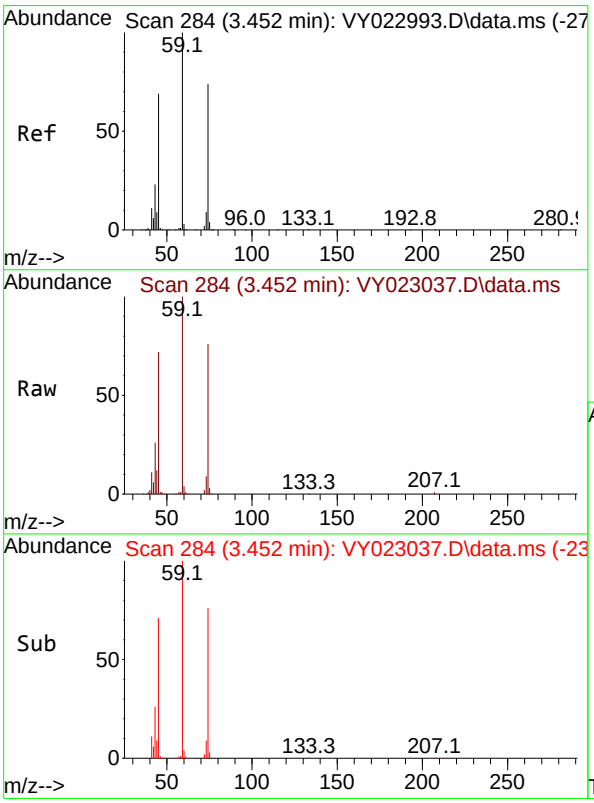
#7
Trichlorofluoromethane
Concen: 46.144 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 357561

Ion	Ratio	Lower	Upper
101	100		
103	62.5	50.7	76.1

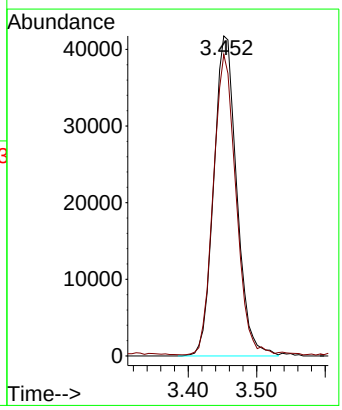


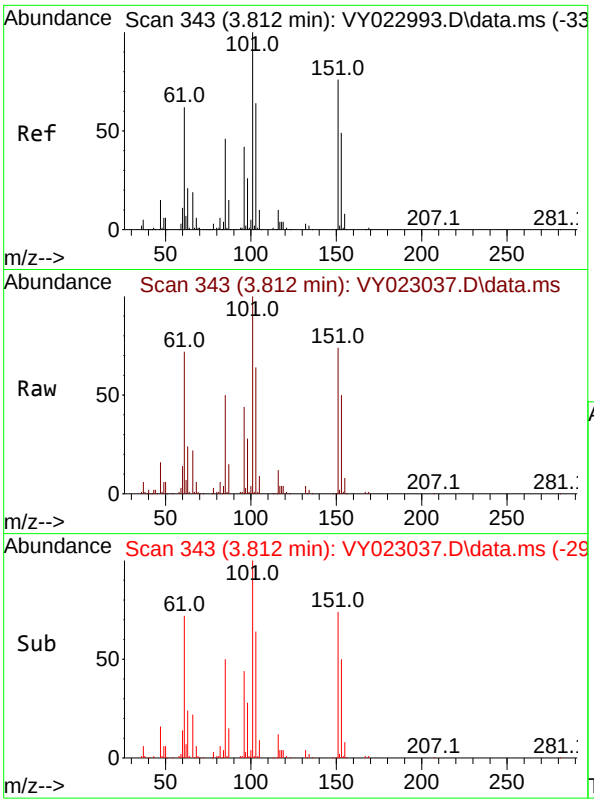


#8
Diethyl Ether
Concen: 47.921 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 74 Resp: 97187

Ion	Ratio	Lower	Upper
74	100		
45	92.5	45.1	135.2



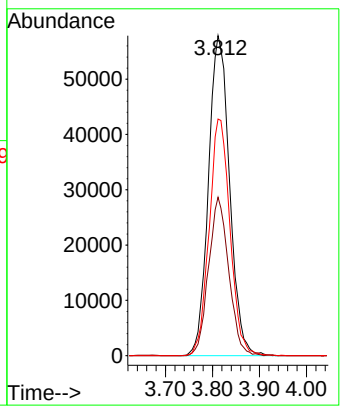


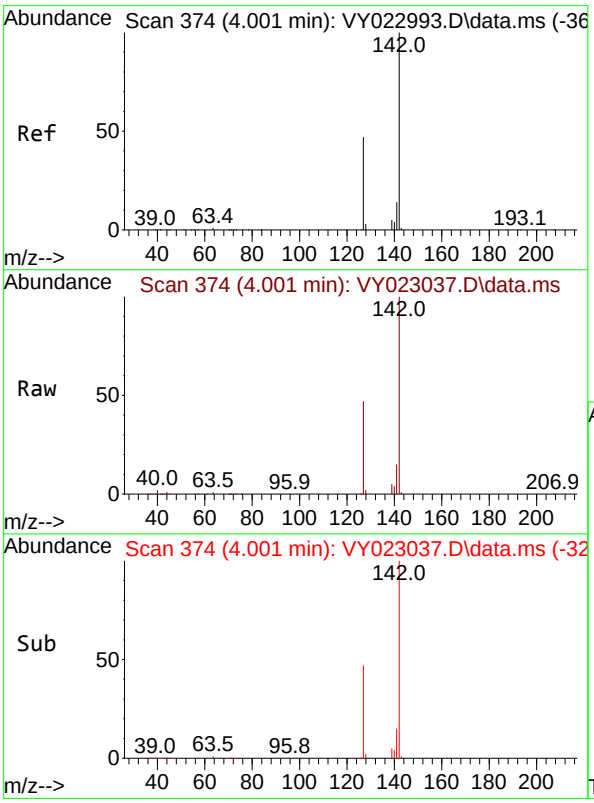
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.347 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 180521

Ion	Ratio	Lower	Upper
101	100		
85	47.3	37.2	55.8
151	73.3	59.7	89.5

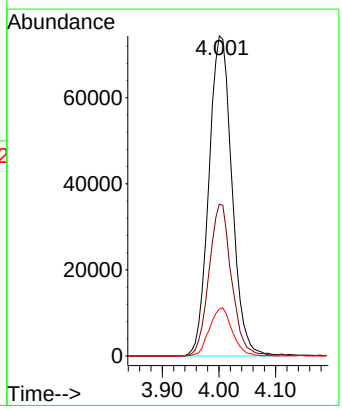


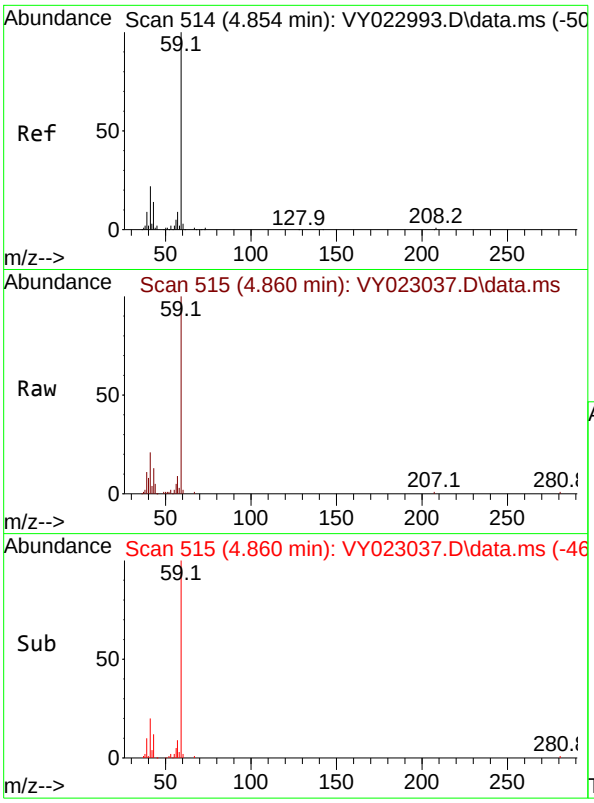


#10
Methyl Iodide
Concen: 49.718 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:142 Resp: 210246

Ion	Ratio	Lower	Upper
142	100		
127	46.3	37.0	55.6
141	14.8	11.4	17.2



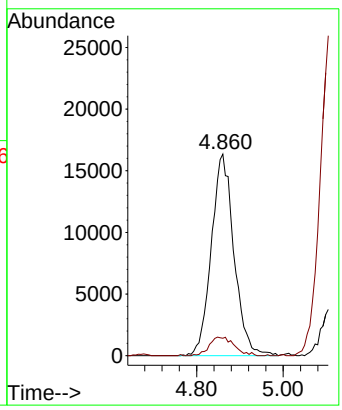


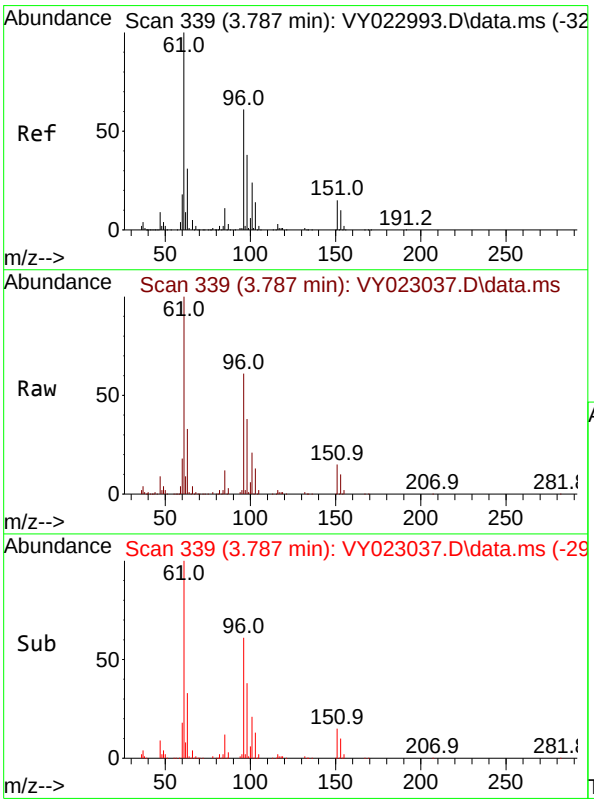
#11
Tert butyl alcohol
Concen: 266.251 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 59487

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.2	12.2

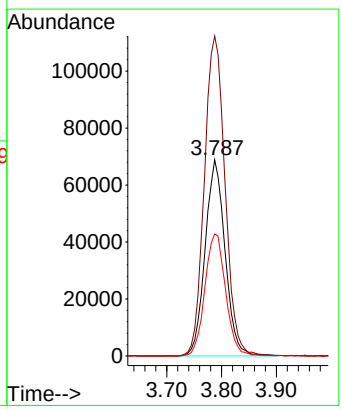


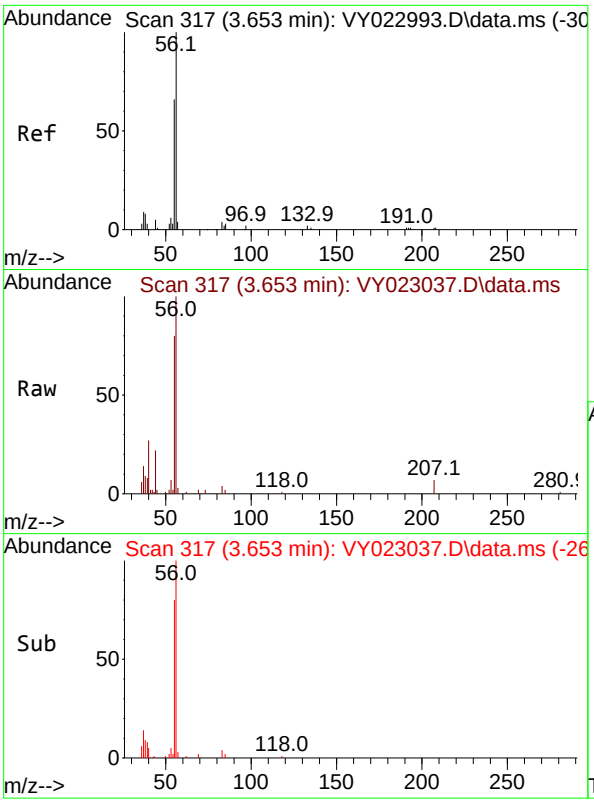


#12
1,1-Dichloroethene
Concen: 44.904 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 96 Resp: 174127

Ion	Ratio	Lower	Upper
96	100		
61	163.2	130.4	195.6
98	62.3	49.6	74.4



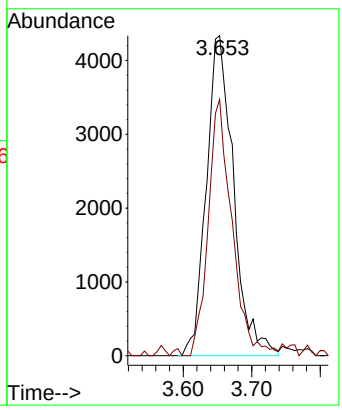


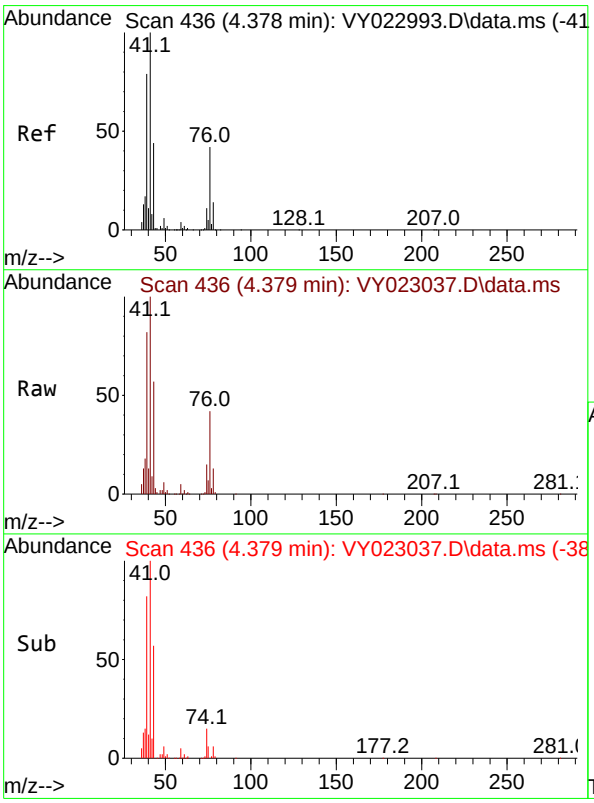
#13
Acrolein
Concen: 113.632 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 11930

Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.8	86.6

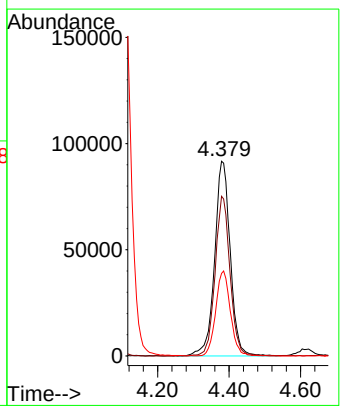


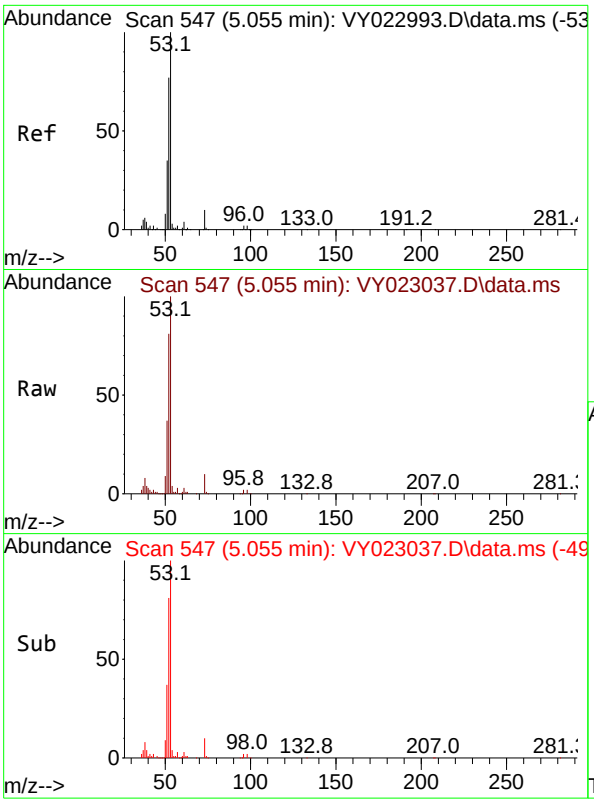


#14
Allyl chloride
Concen: 47.094 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 41 Resp: 278218

Ion	Ratio	Lower	Upper
41	100		
39	78.3	60.1	90.1
76	41.0	32.2	48.4



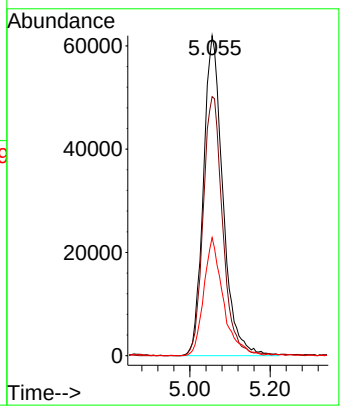


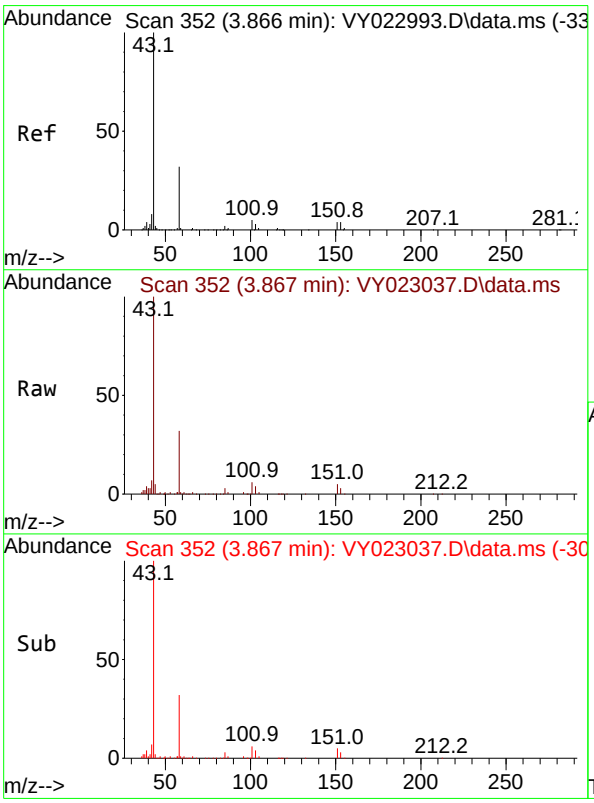
#15
Acrylonitrile
Concen: 272.310 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 209182

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.2	97.8
51	36.9	30.3	45.5

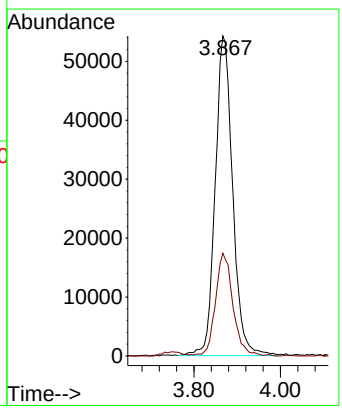


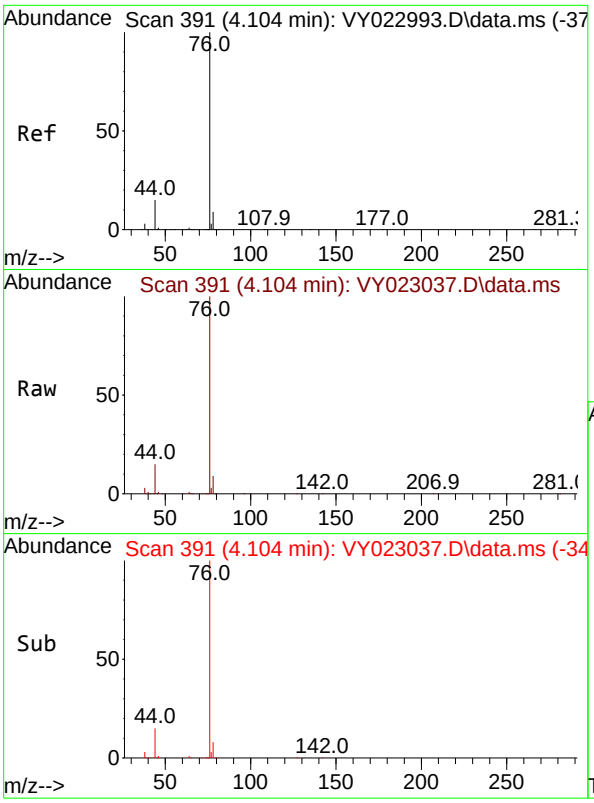


#16
Acetone
Concen: 227.117 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 152093

Ion	Ratio	Lower	Upper
43	100		
58	32.0	26.2	39.4



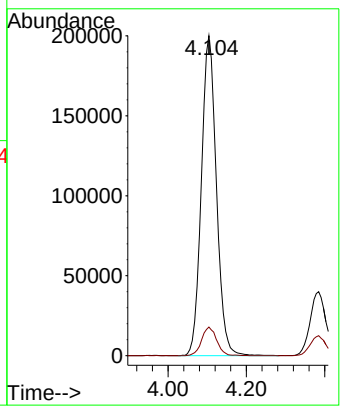


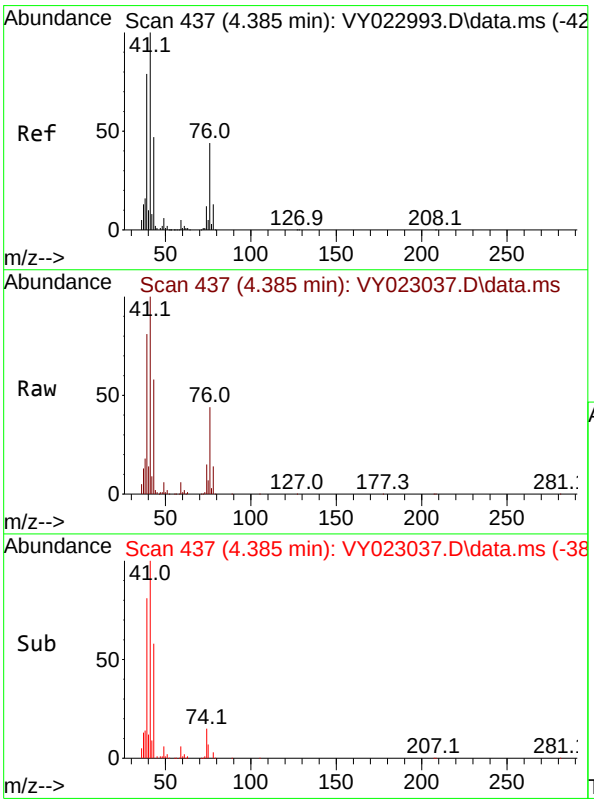
#17
Carbon Disulfide
Concen: 45.378 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 533311

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0

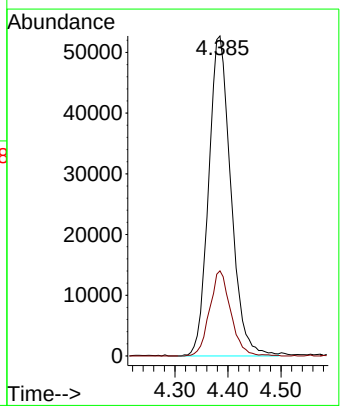


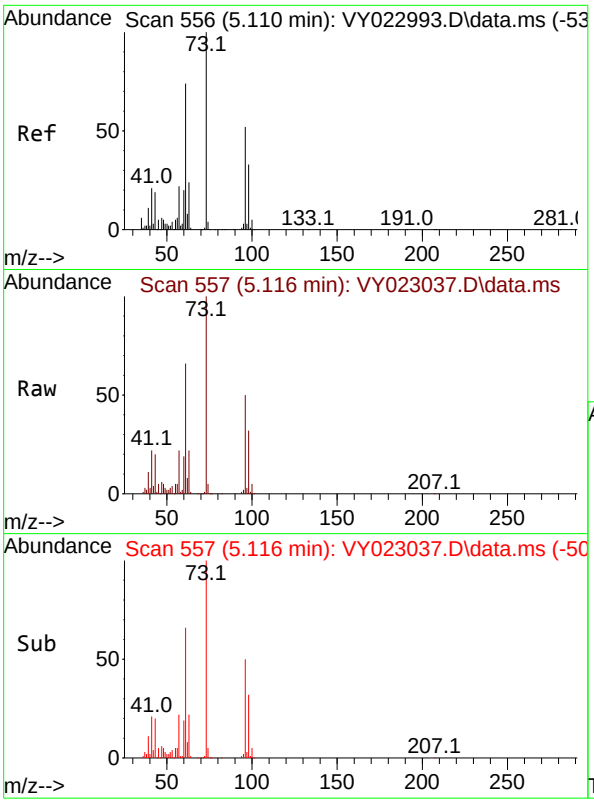


#18
Methyl Acetate
Concen: 67.737 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 153573

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.1	30.1



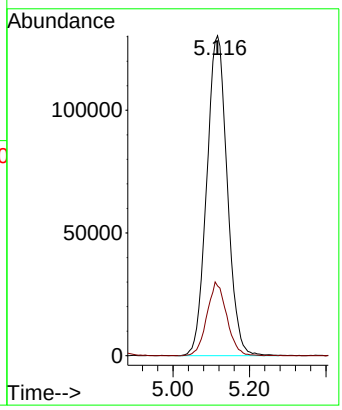


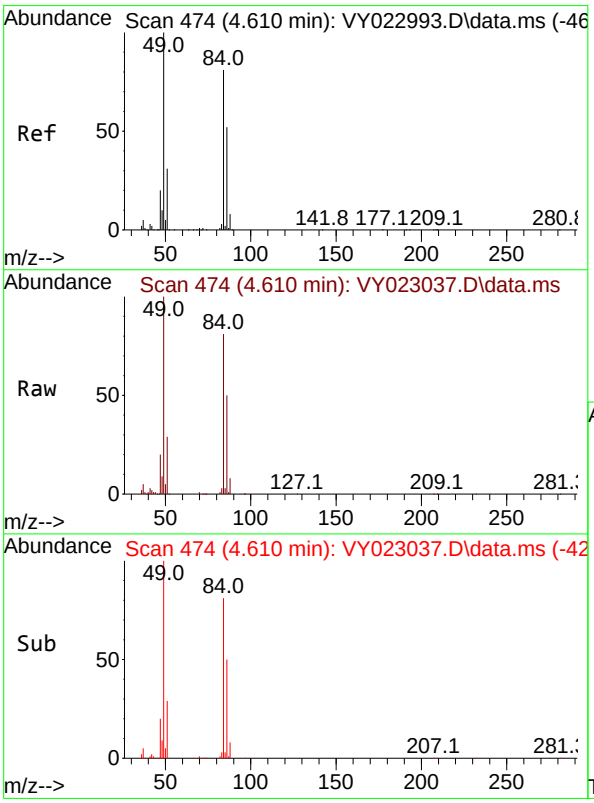
#19
Methyl tert-butyl Ether
Concen: 52.263 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 486107

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

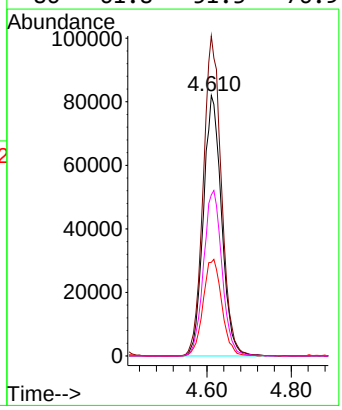


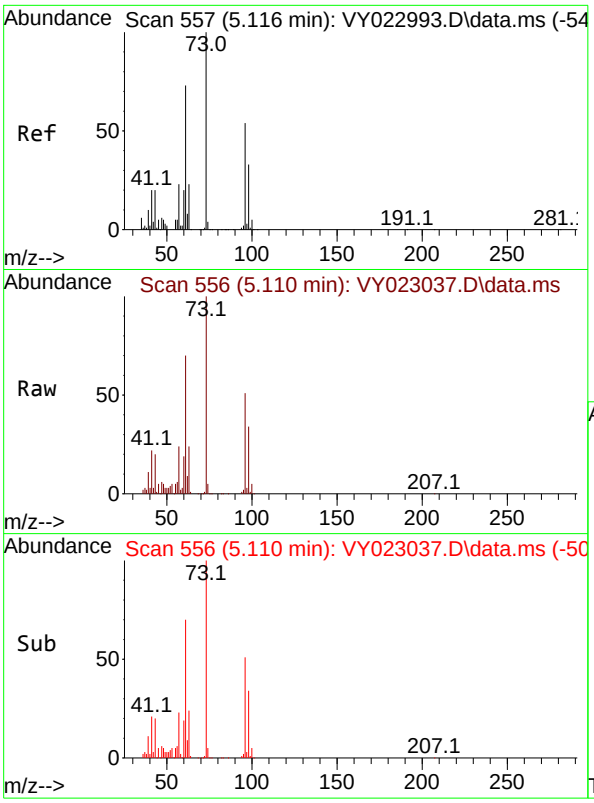


#20
Methylene Chloride
Concen: 52.461 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 84 Resp: 245177

Ion	Ratio	Lower	Upper
84	100		
49	122.8	98.2	147.4
51	35.9	30.5	45.7
86	61.8	51.3	76.9



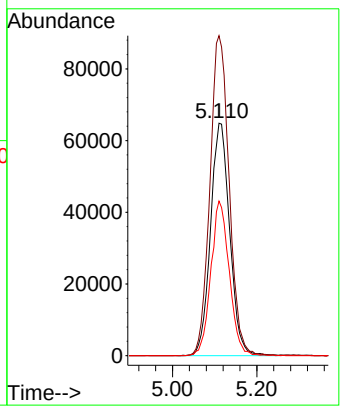


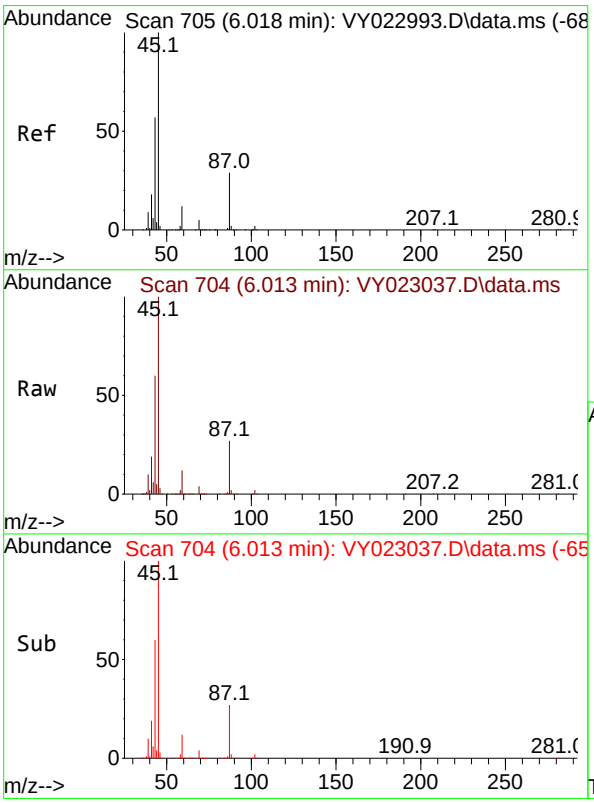
#21
trans-1,2-Dichloroethene
Concen: 47.486 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 204974

Ion	Ratio	Lower	Upper
96	100		
61	137.7	107.4	161.2
98	66.5	49.3	73.9

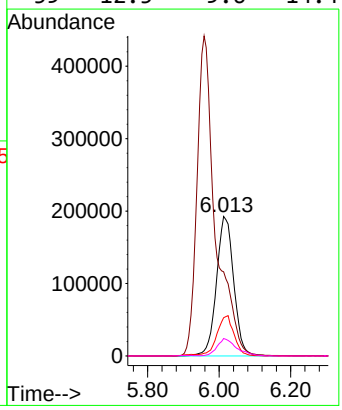


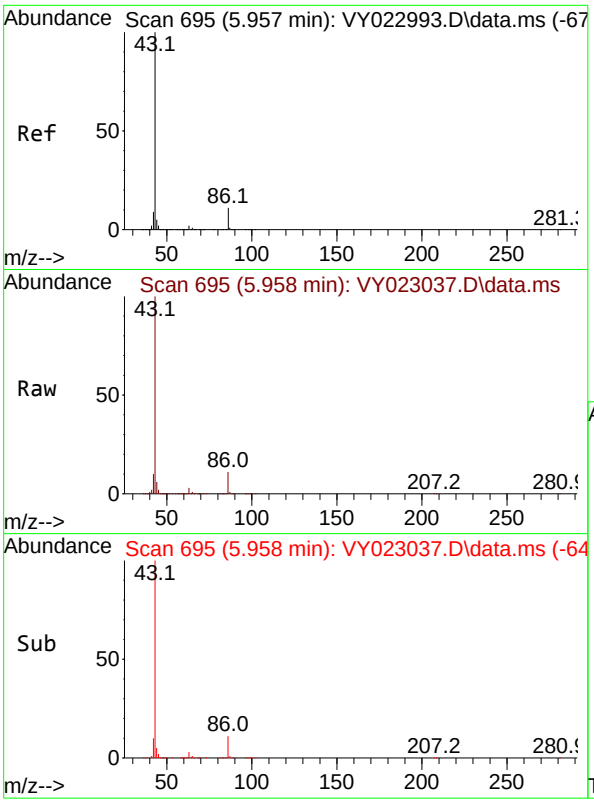


#22
Diisopropyl ether
Concen: 51.489 ug/l
RT: 6.013 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 45 Resp: 645325

Ion	Ratio	Lower	Upper
45	100		
43	60.2	45.3	67.9
87	27.4	23.3	34.9
59	12.5	9.6	14.4



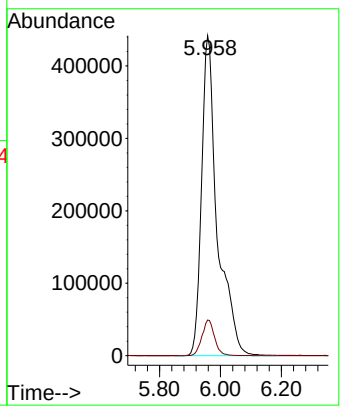


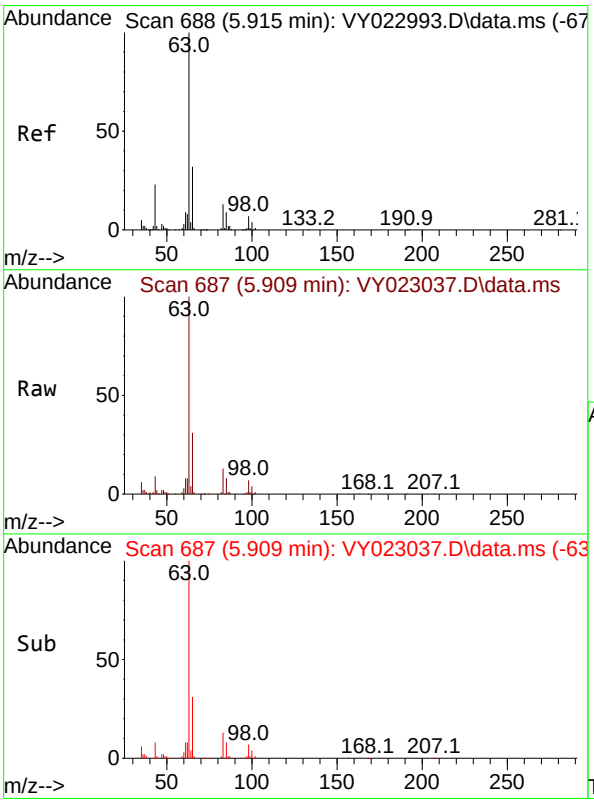
#23
Vinyl Acetate
Concen: 251.092 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1585664

Ion	Ratio	Lower	Upper
43	100		
86	11.1	9.0	13.4

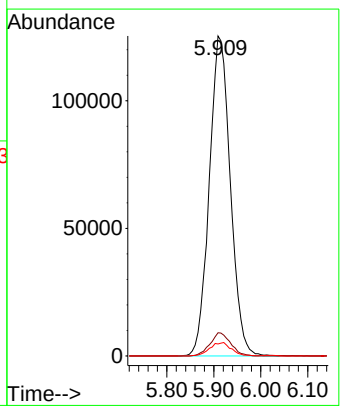


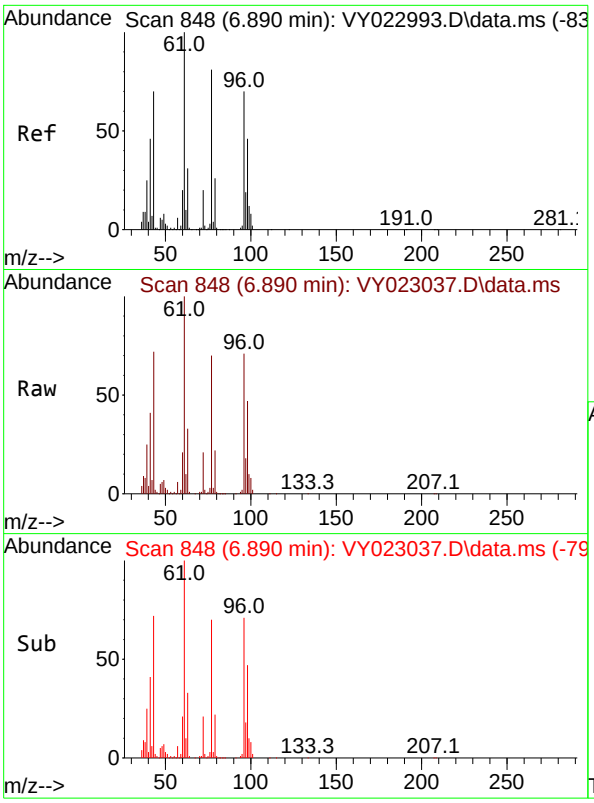


#24
1,1-Dichloroethane
Concen: 49.557 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 63 Resp: 390117

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.5
100	3.8	2.1	6.2



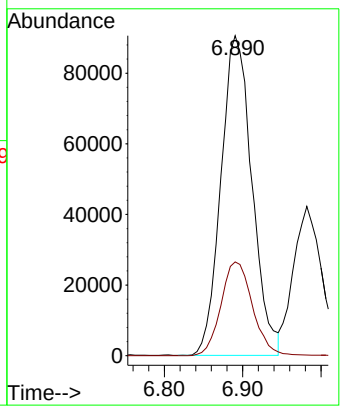


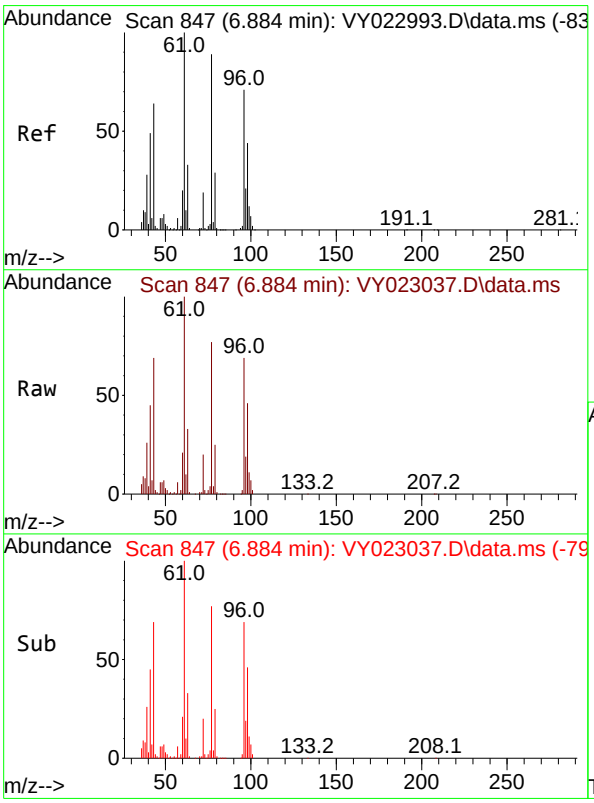
#25
2-Butanone
Concen: 259.880 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 249667

Ion	Ratio	Lower	Upper
43	100		
72	29.4	22.9	34.3

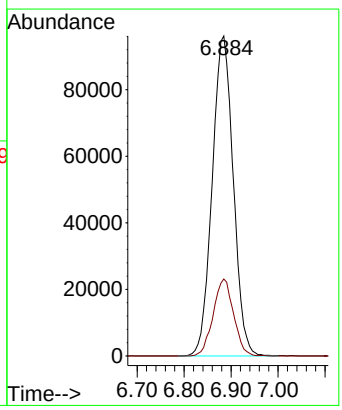


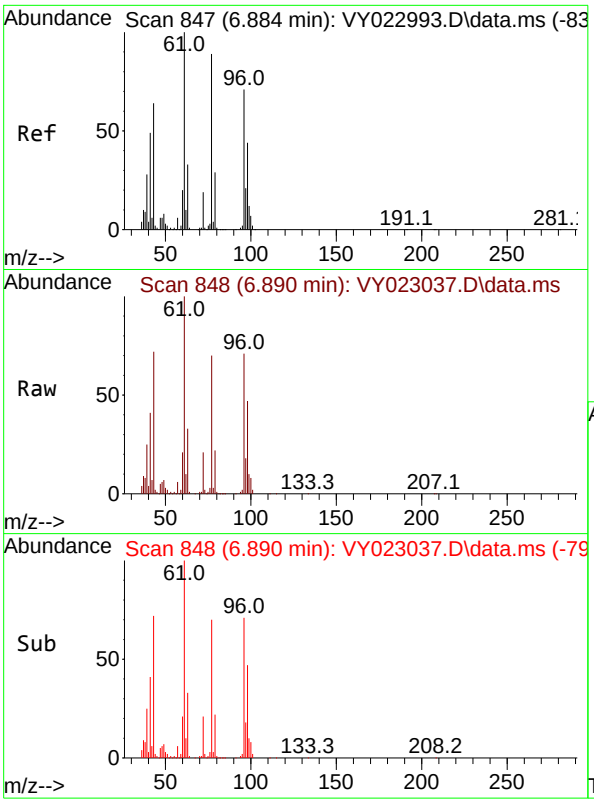


#26
2,2-Dichloropropane
Concen: 43.384 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 77 Resp: 299317

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.3	33.9



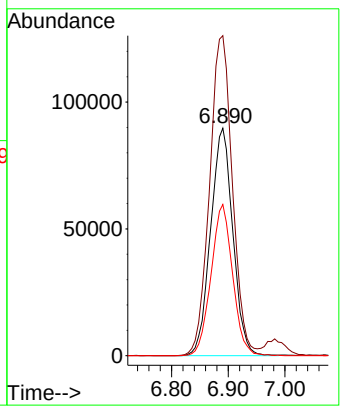


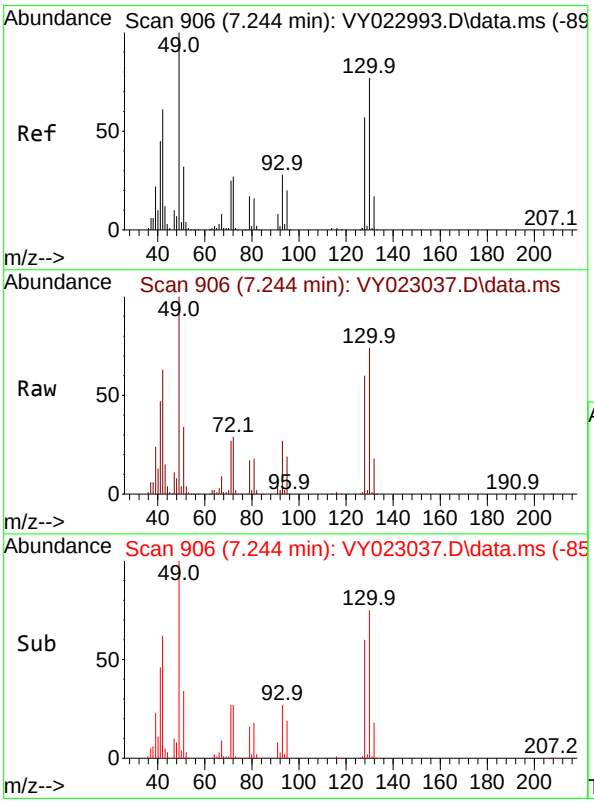
#27
cis-1,2-Dichloroethene
Concen: 49.131 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 244418

Ion	Ratio	Lower	Upper
96	100		
61	144.6	0.0	286.2
98	64.6	0.0	127.4

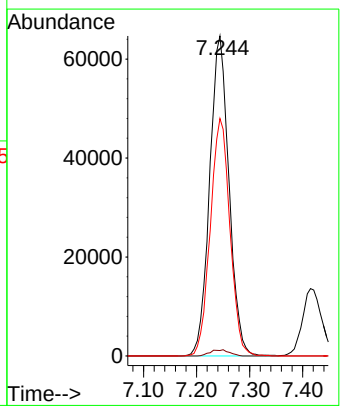


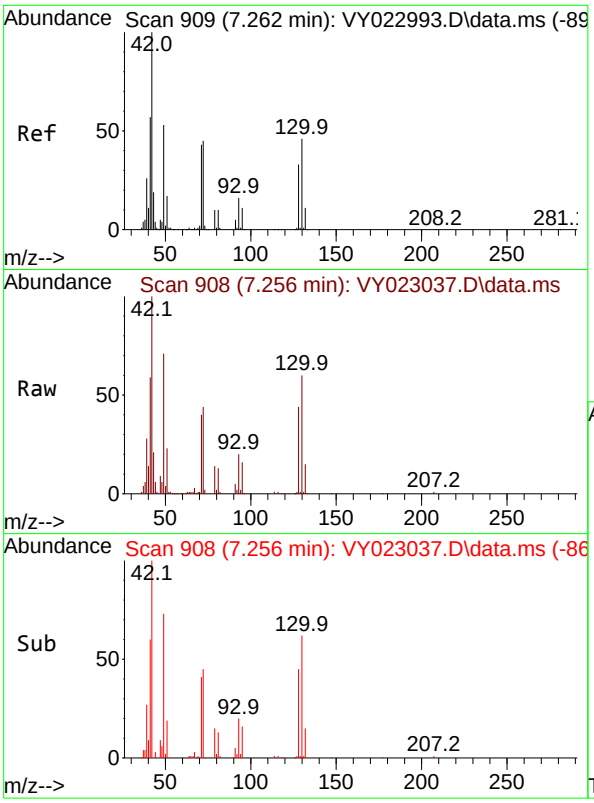


#28
Bromochloromethane
Concen: 53.625 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 49 Resp: 163732

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	75.3	61.8	92.8



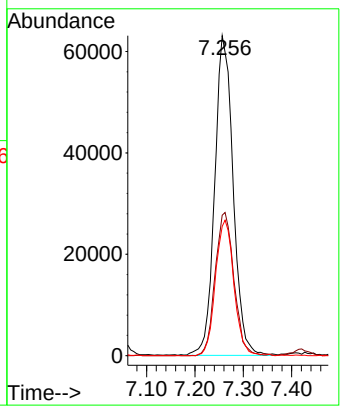


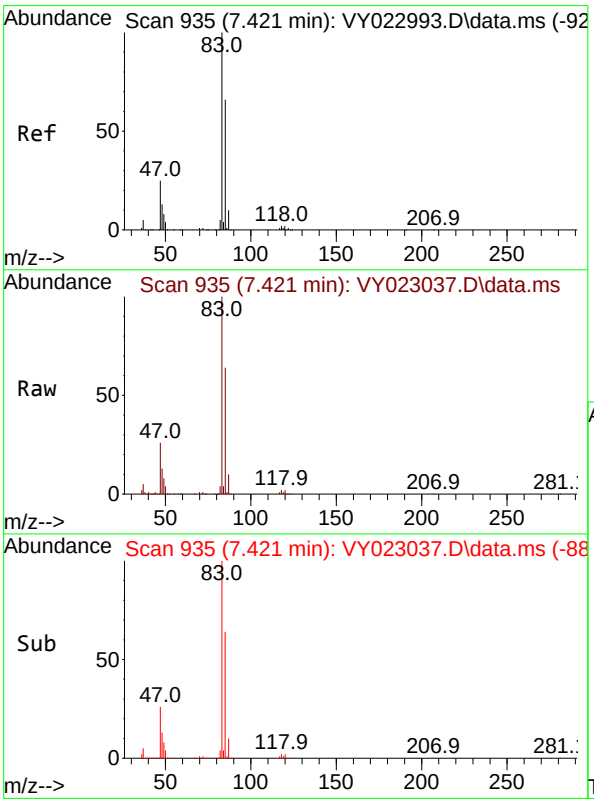
#29
Tetrahydrofuran
Concen: 275.629 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 167649

Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.5	56.3
71	42.1	34.2	51.4

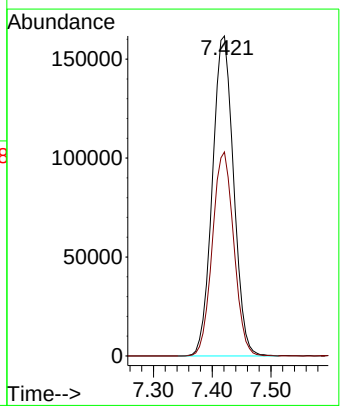


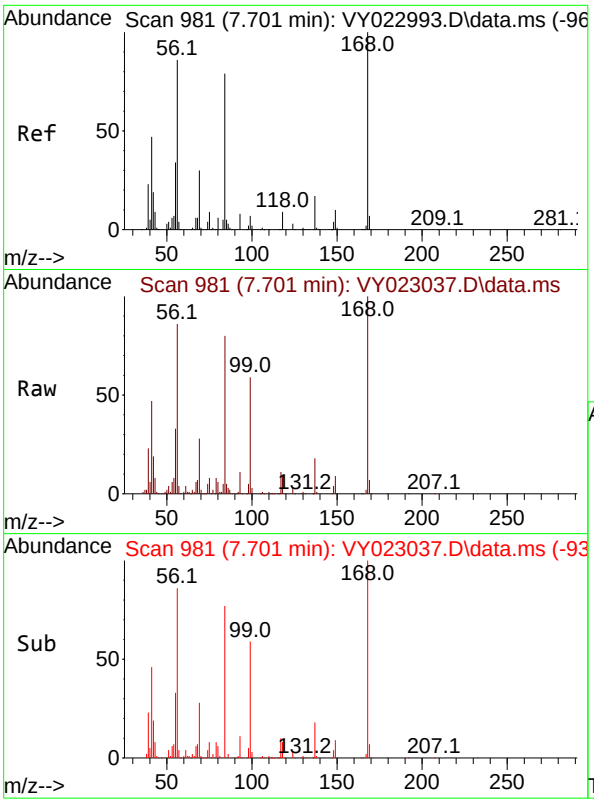


#30
Chloroform
Concen: 51.090 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 83 Resp: 405722

Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.6	78.8



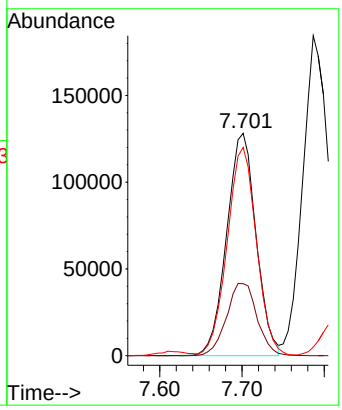


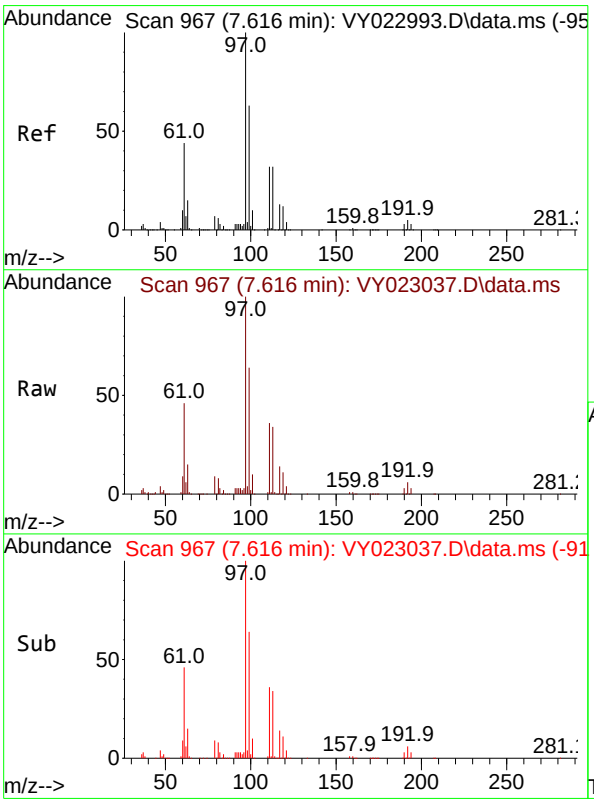
#31
Cyclohexane
Concen: 43.302 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 318510

Ion	Ratio	Lower	Upper
56	100		
69	32.3	28.1	42.1
84	92.0	73.5	110.3

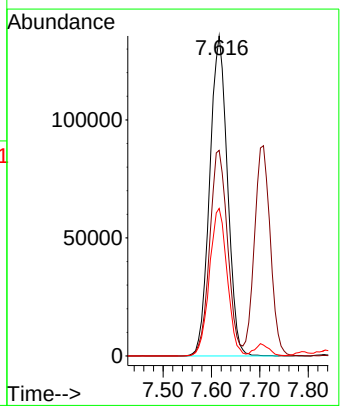


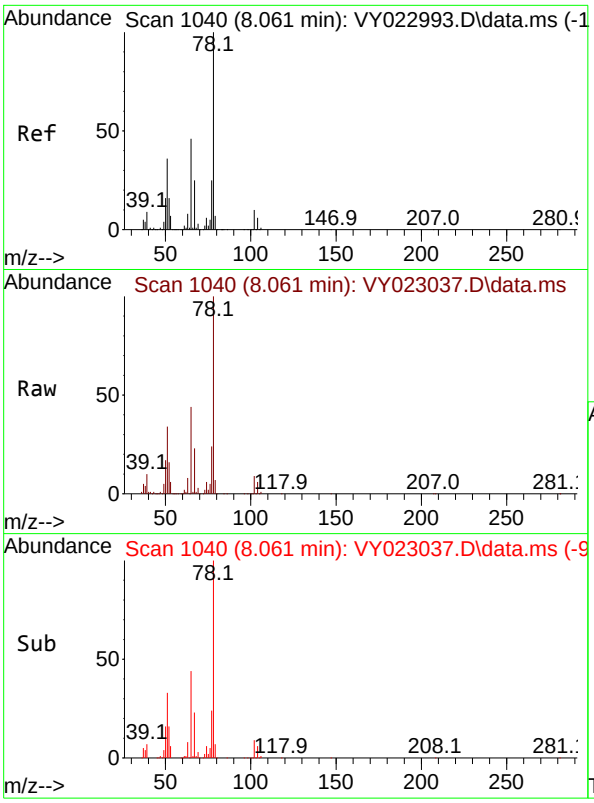


#32
1,1,1-Trichloroethane
Concen: 47.946 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 97 Resp: 345470

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.1	76.7
61	46.3	36.1	54.1



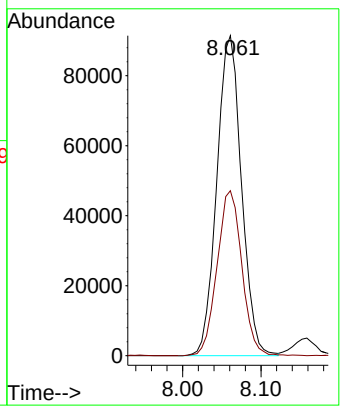


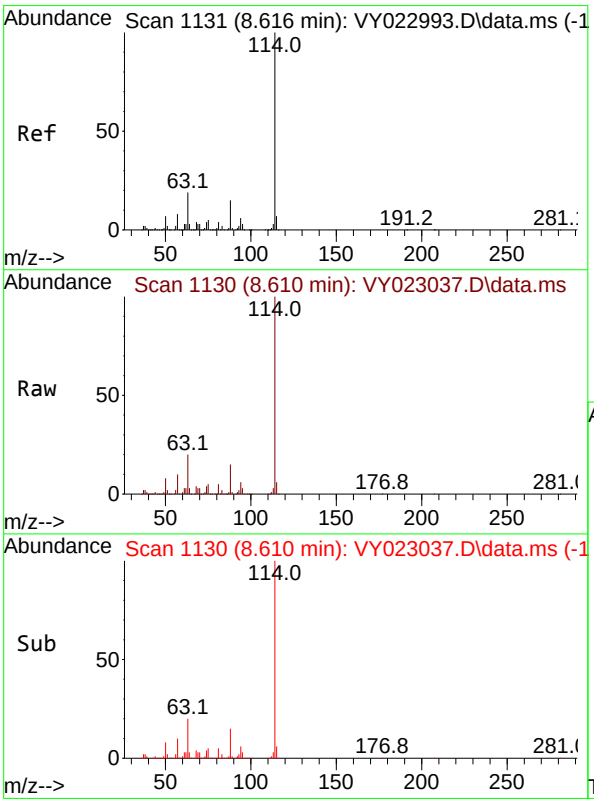
#33
1,2-Dichloroethane-d4
Concen: 54.308 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 200633

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	107.4

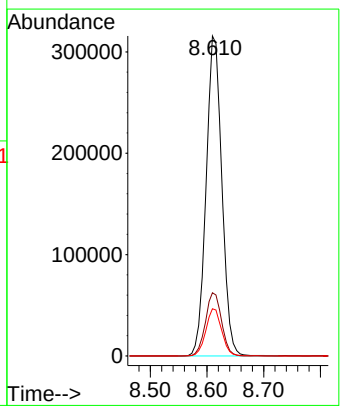


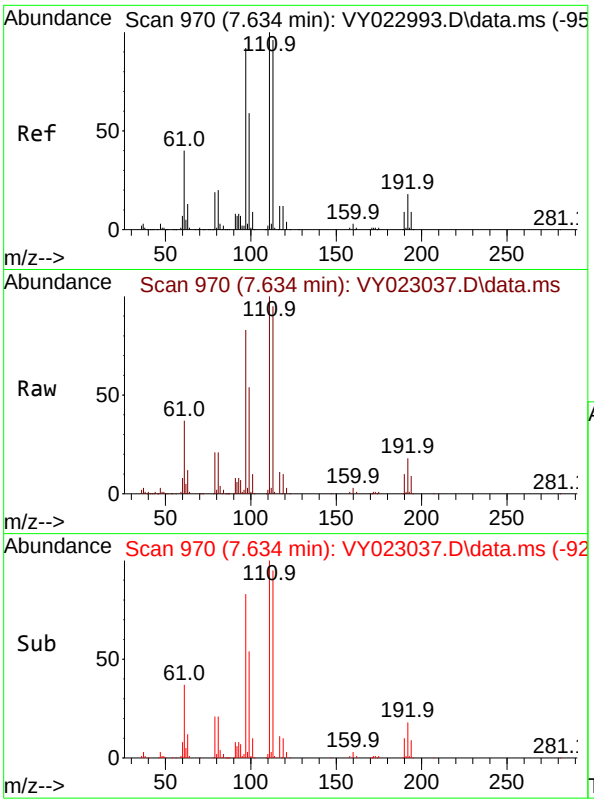


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:114 Resp: 608629

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.8
88	14.8	0.0	30.2



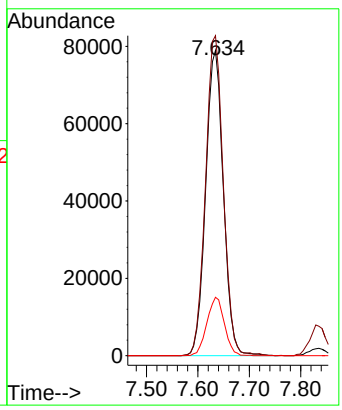


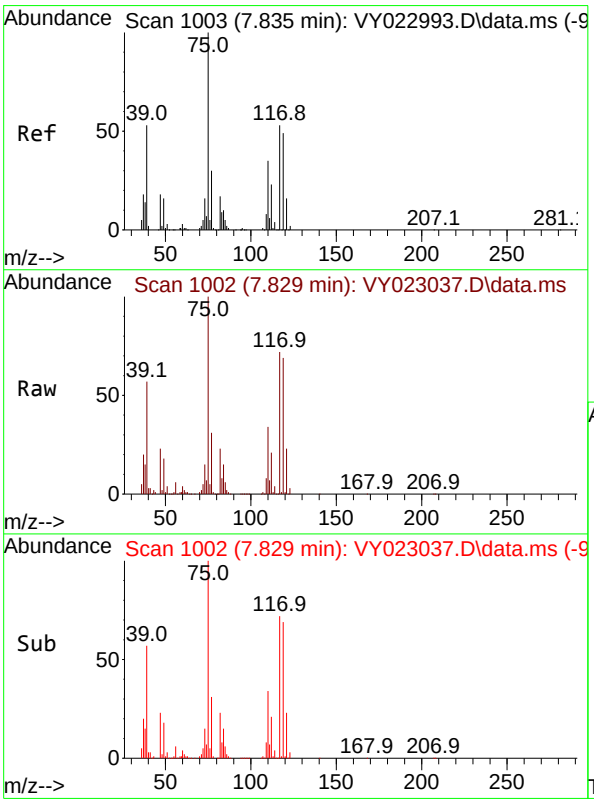
#35
Dibromofluoromethane
Concen: 48.883 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 188725

Ion	Ratio	Lower	Upper
113	100		
111	105.5	83.2	124.8
192	19.0	15.3	22.9

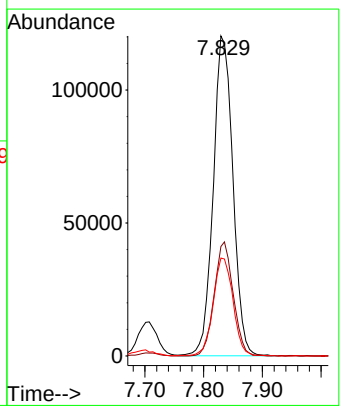


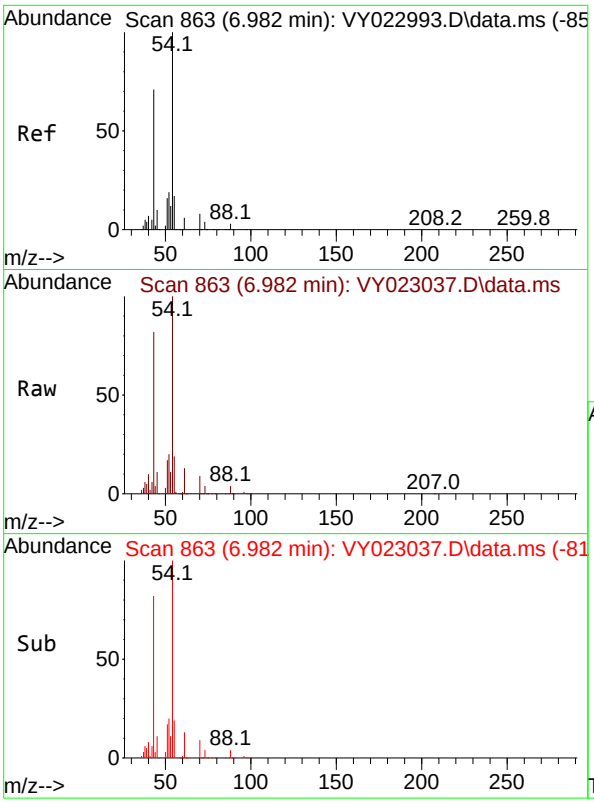


#36
1,1-Dichloropropene
Concen: 46.015 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 279833

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.3	51.9
77	31.0	24.6	37.0



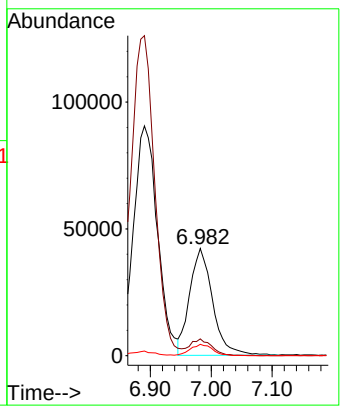


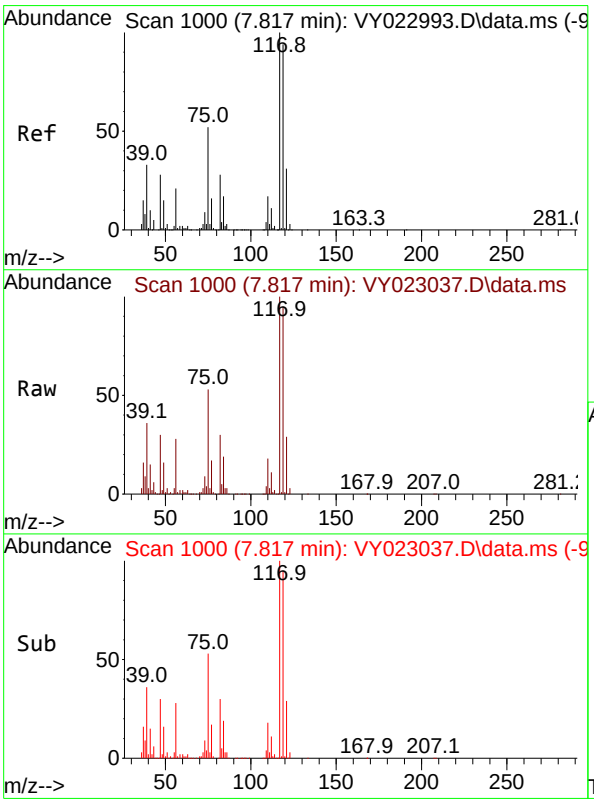
#37
Ethyl Acetate
Concen: 49.061 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 110808

Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.6	17.4
70	10.3	8.5	12.7

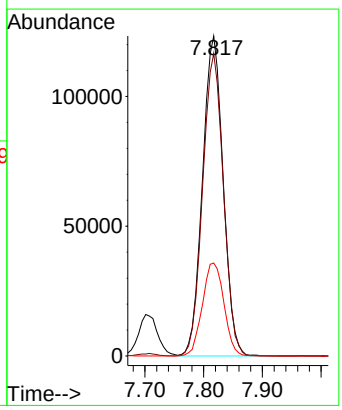


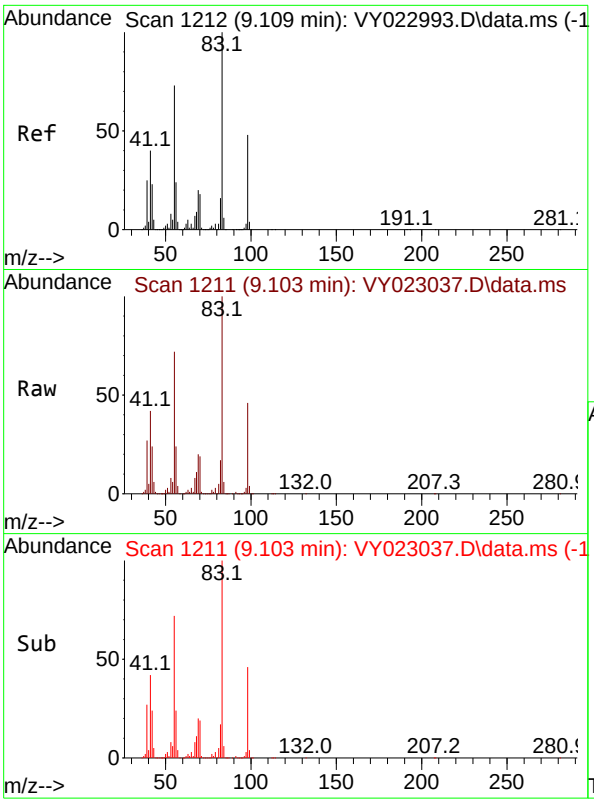


#38
Carbon Tetrachloride
Concen: 45.558 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:117 Resp: 300995

Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.9	112.3
121	29.0	24.6	37.0



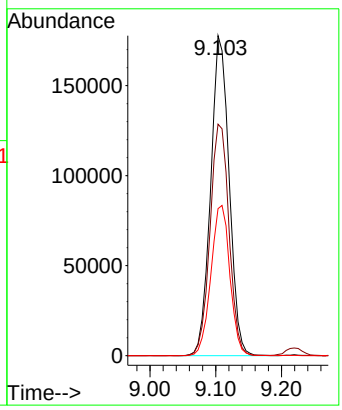


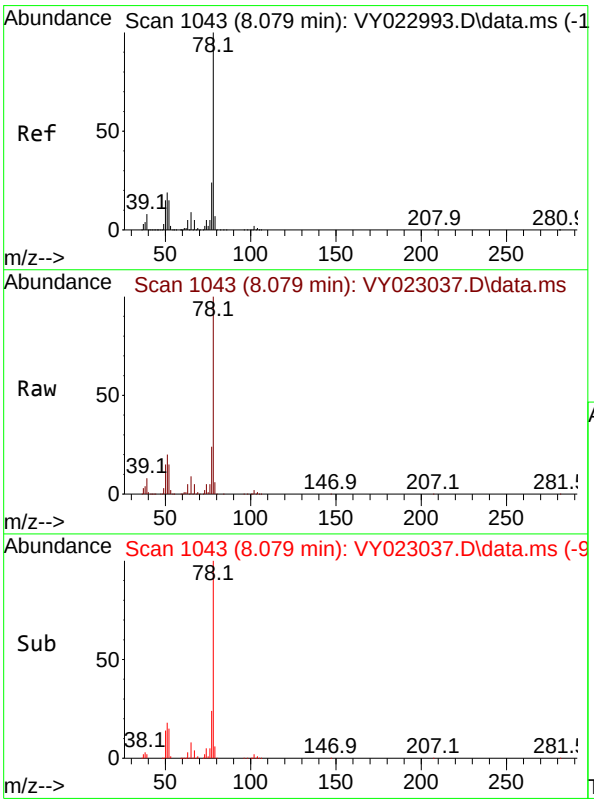
#39
Methylcyclohexane
Concen: 44.125 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 347320

Ion	Ratio	Lower	Upper
83	100		
55	72.4	58.1	87.1
98	45.9	38.5	57.7

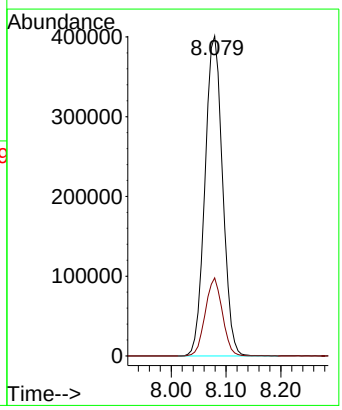


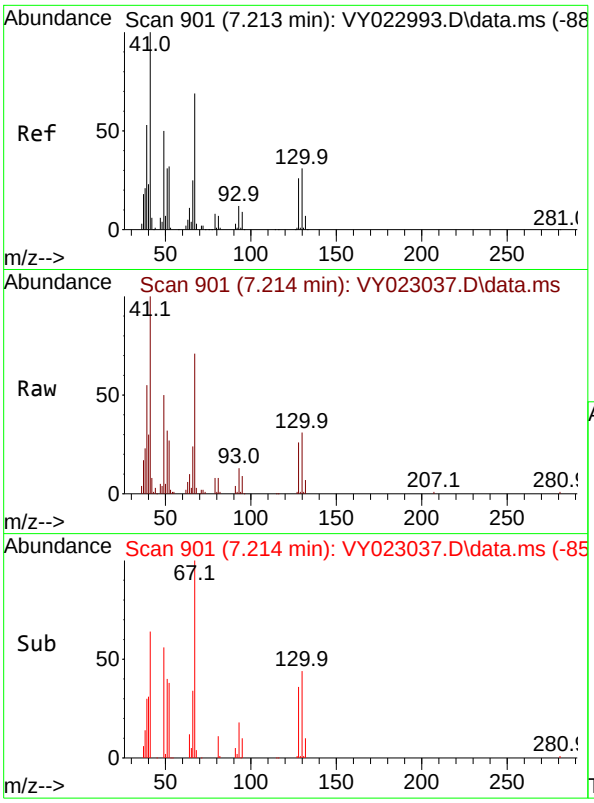


#40
Benzene
Concen: 48.766 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 78 Resp: 892923

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4



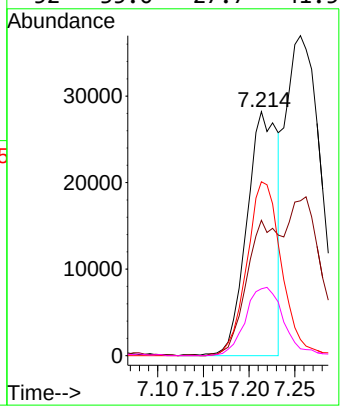


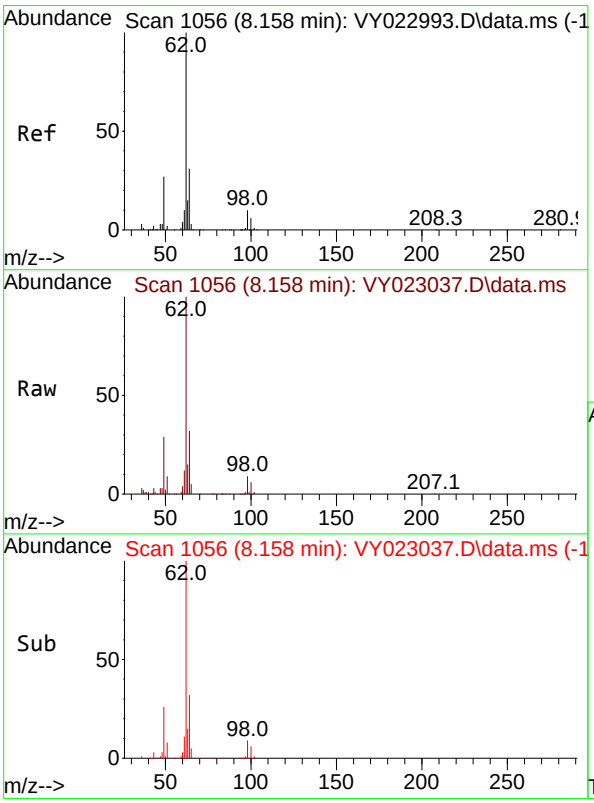
#41
Methacrylonitrile
Concen: 53.684 ug/l
RT: 7.214 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 66052

Ion	Ratio	Lower	Upper
41	100		
39	63.2	50.0	75.0
67	80.6	65.4	98.2
52	35.0	27.7	41.5

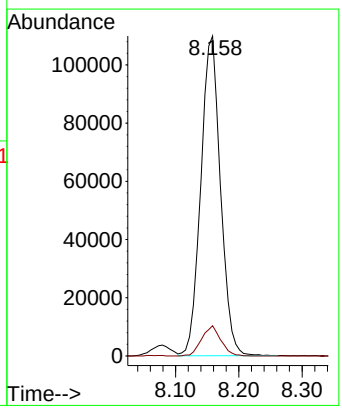


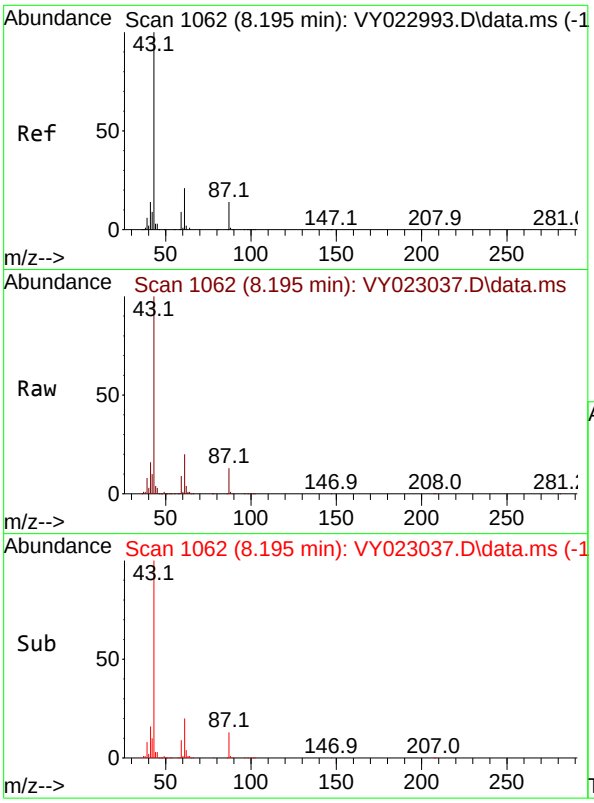


#42
1,2-Dichloroethane
Concen: 52.184 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 62 Resp: 237723

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.0



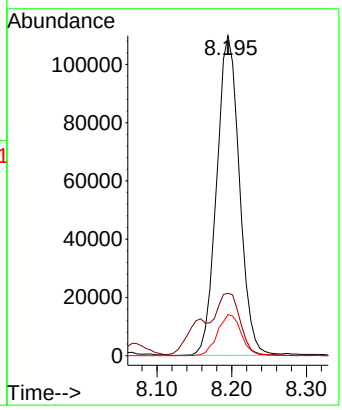


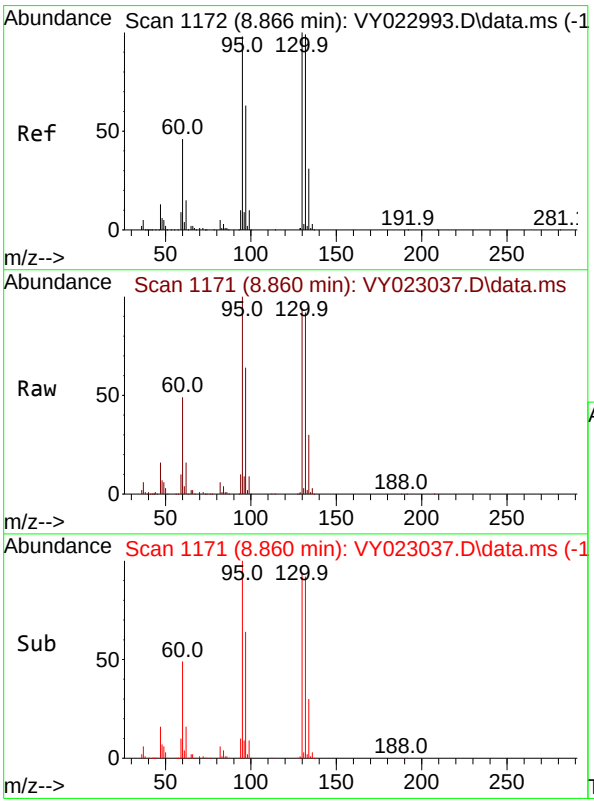
#43
Isopropyl Acetate
Concen: 51.904 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 232858

Ion	Ratio	Lower	Upper
43	100		
61	20.4	25.0	37.4#
87	13.4	11.1	16.7

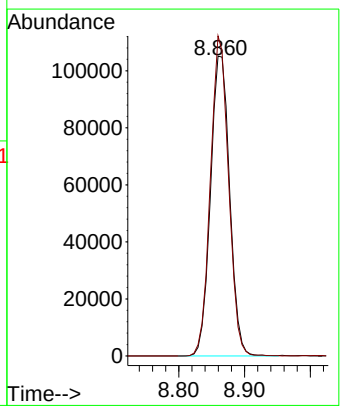


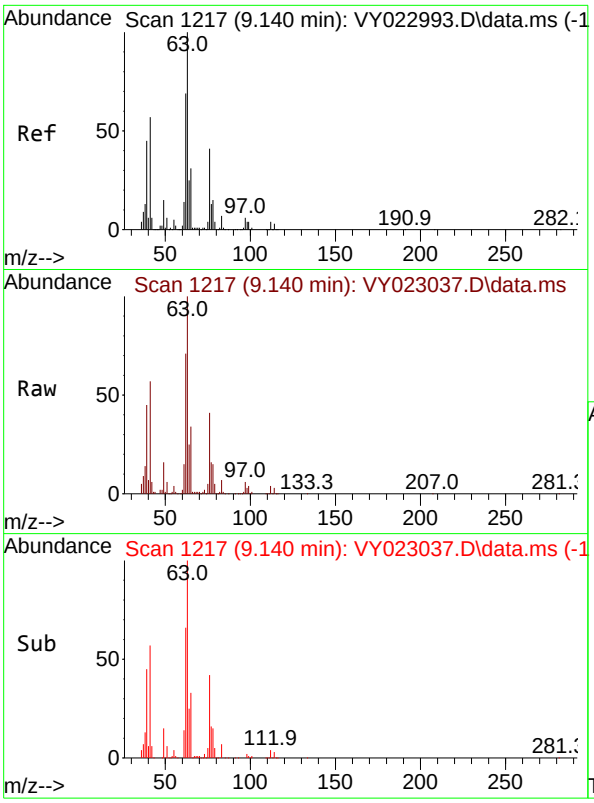


#44
Trichloroethene
Concen: 45.298 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:130 Resp: 213038

Ion	Ratio	Lower	Upper
130	100		
95	106.7	0.0	195.8



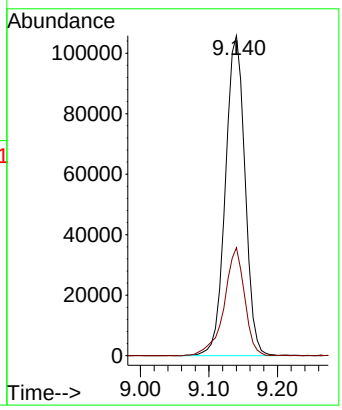


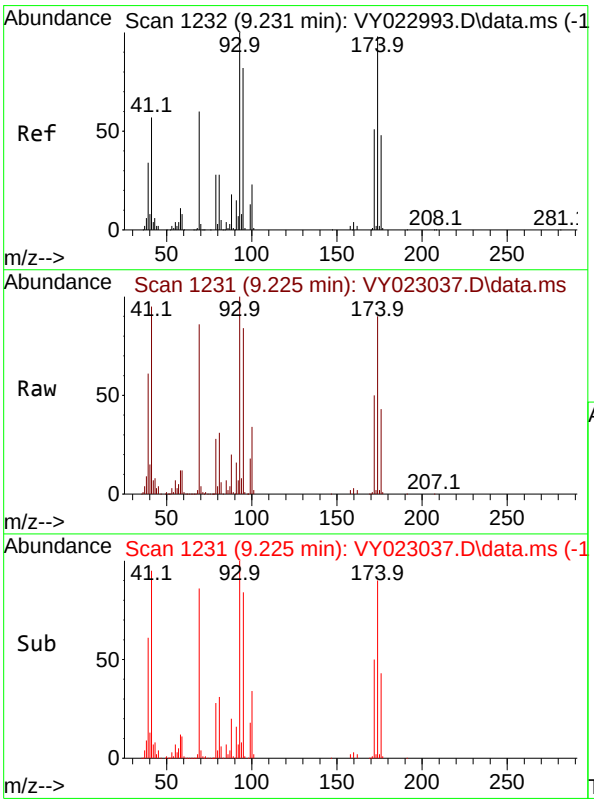
#45
1,2-Dichloropropane
Concen: 49.079 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 209857

Ion	Ratio	Lower	Upper
63	100		
65	33.7	24.6	37.0

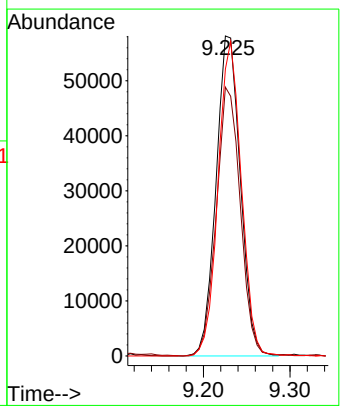


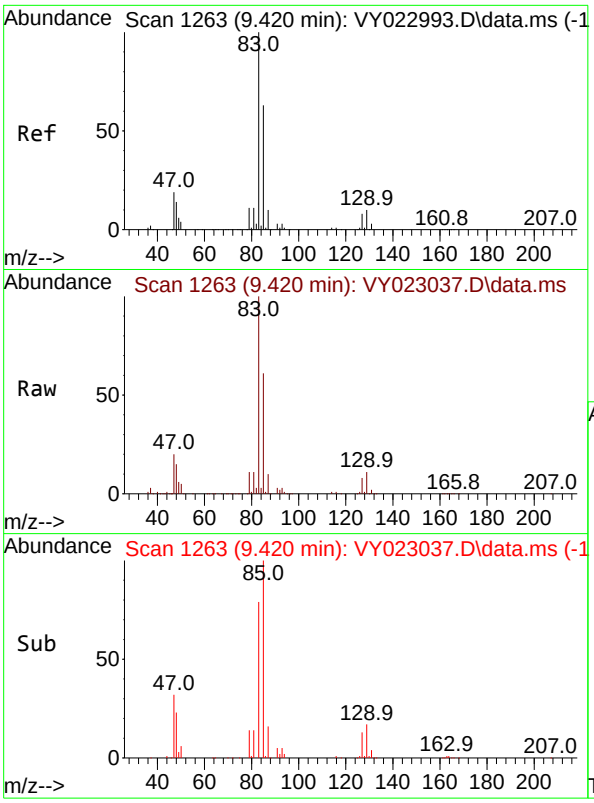


#46
Dibromomethane
Concen: 51.242 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 93 Resp: 113255

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.9	98.9
174	94.1	76.4	114.6



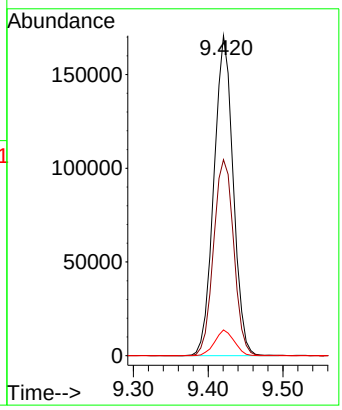


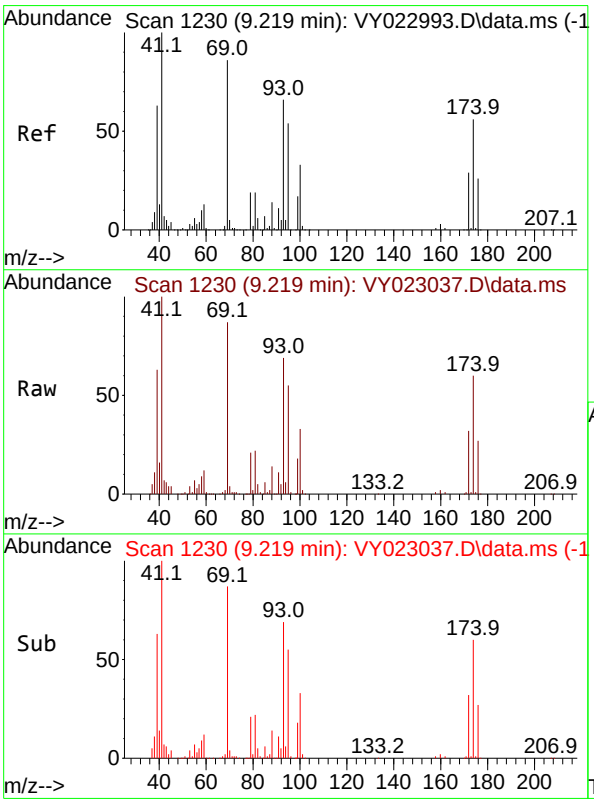
#47
Bromodichloromethane
Concen: 50.179 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 306564

Ion	Ratio	Lower	Upper
83	100		
85	61.2	50.6	75.8
127	8.1	6.5	9.7

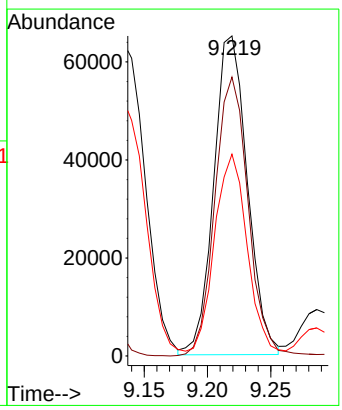


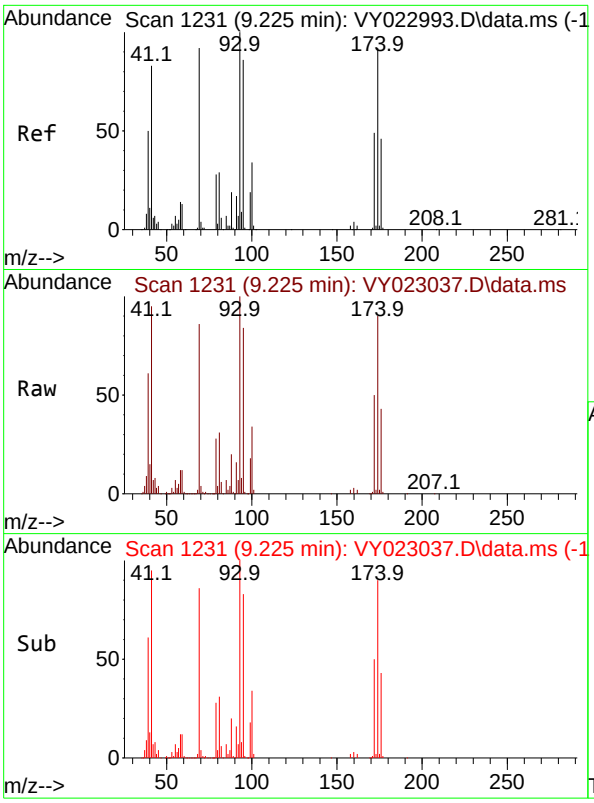


#48
Methyl methacrylate
Concen: 55.511 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 41 Resp: 120235

Ion	Ratio	Lower	Upper
41	100		
69	86.8	71.4	107.0
39	59.3	47.8	71.8



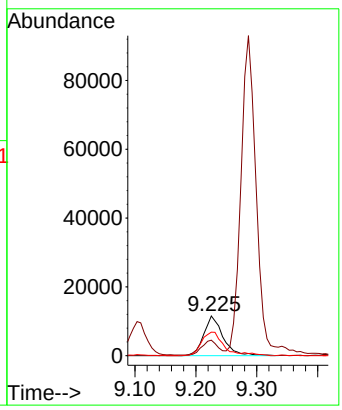


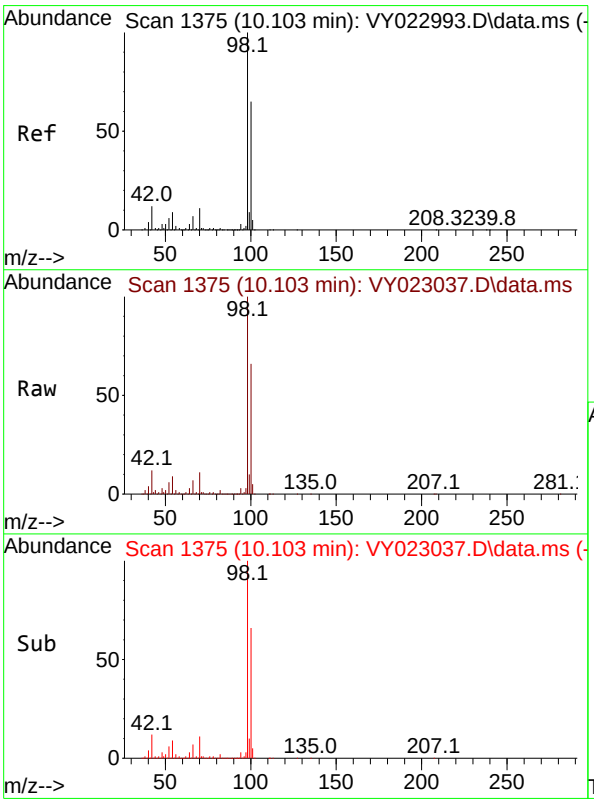
#49
1,4-Dioxane
Concen: 1093.044 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 25465

Ion	Ratio	Lower	Upper
88	100		
43	32.3	28.7	43.1
58	64.6	59.8	89.6

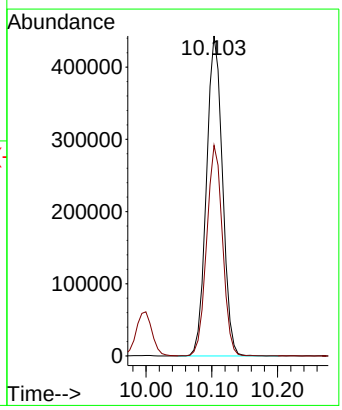


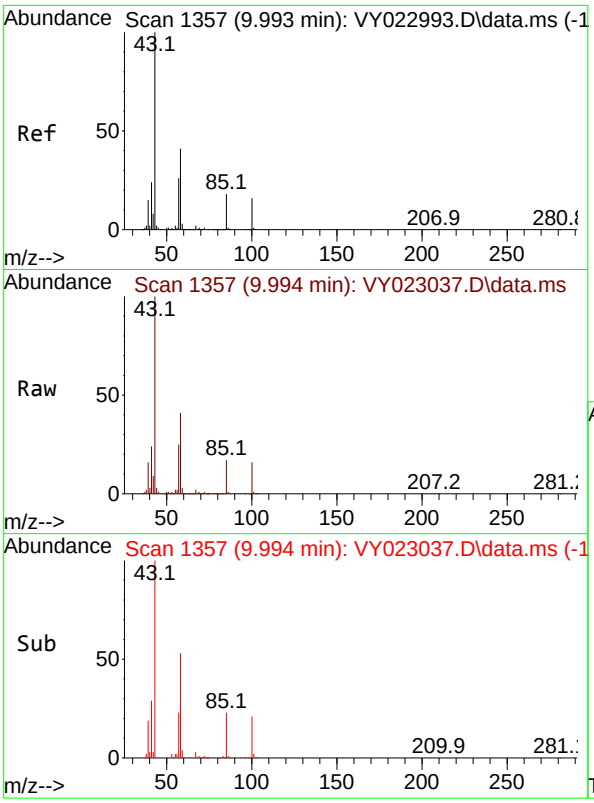


#50
Toluene-d8
Concen: 49.009 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 98 Resp: 750336

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.2



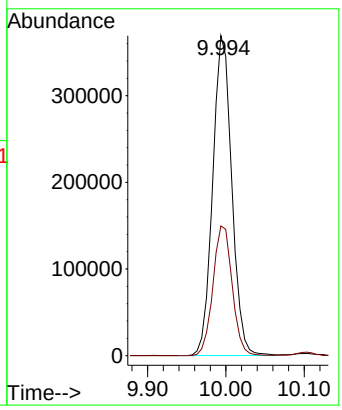


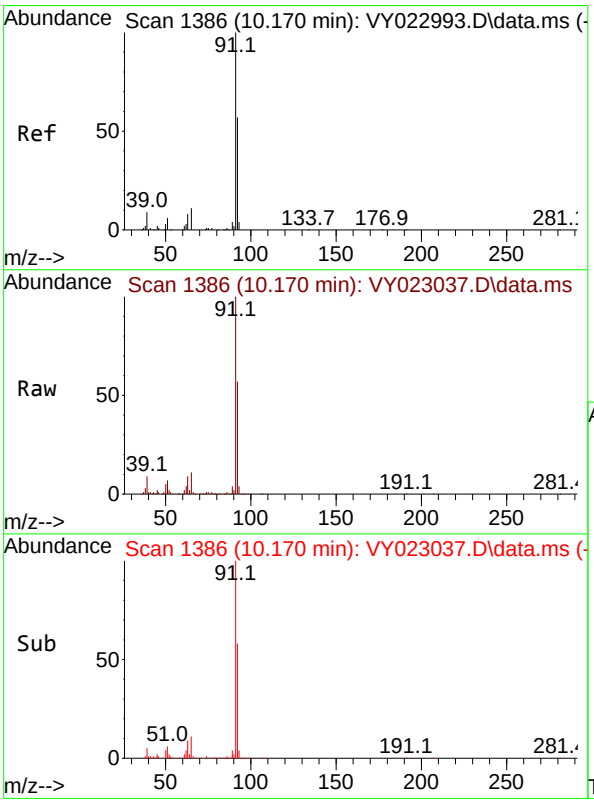
#51
4-Methyl-2-Pentanone
Concen: 274.629 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 625368

Ion	Ratio	Lower	Upper
43	100		
58	41.0	32.5	48.7

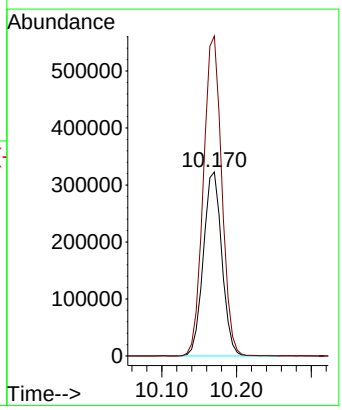


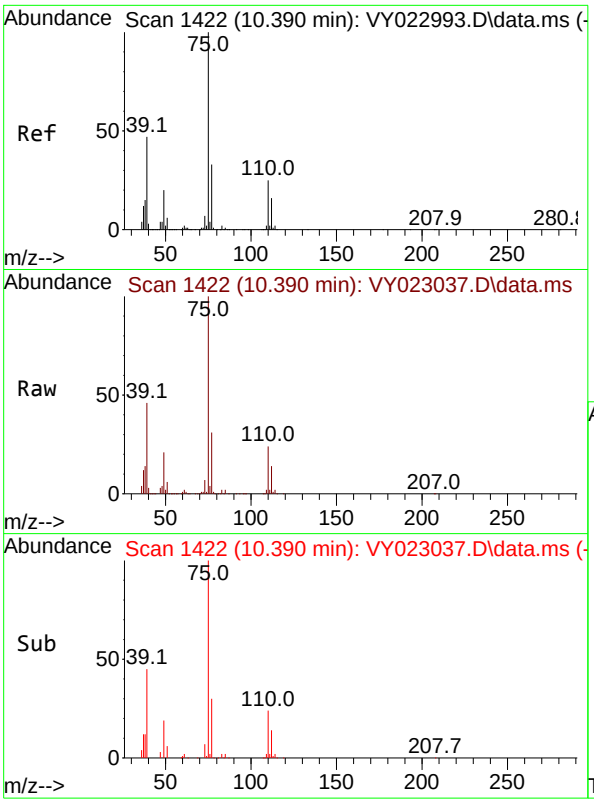


#52
Toluene
Concen: 48.565 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 92 Resp: 552862

Ion	Ratio	Lower	Upper
92	100		
91	173.3	137.8	206.6



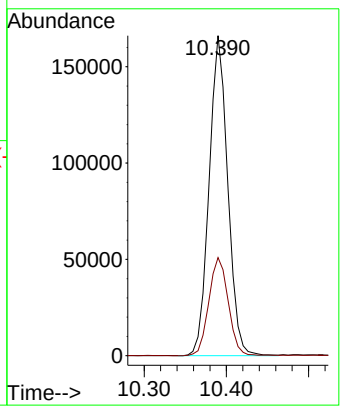


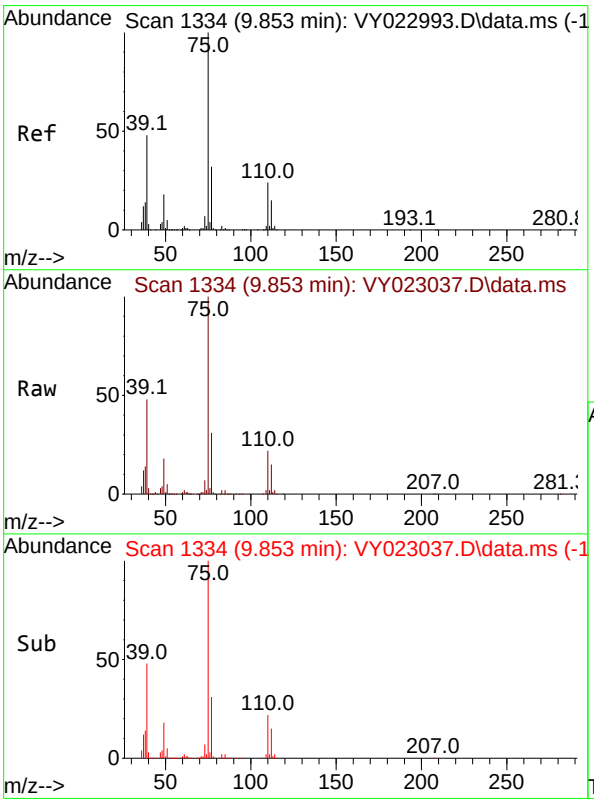
#53
t-1,3-Dichloropropene
Concen: 49.912 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 261758

Ion	Ratio	Lower	Upper
75	100		
77	30.6	26.4	39.6

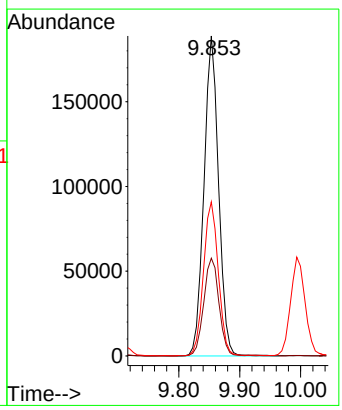


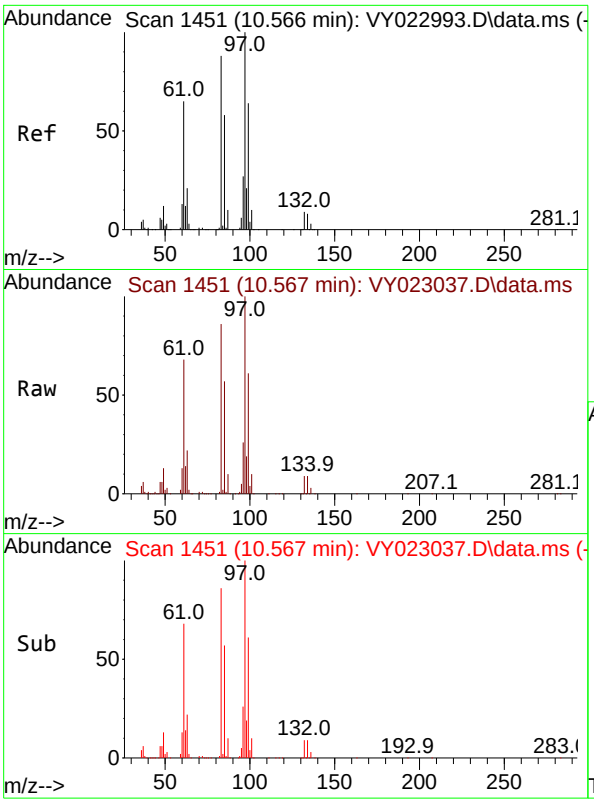


#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 314351

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.4	38.0
39	48.0	38.2	57.2



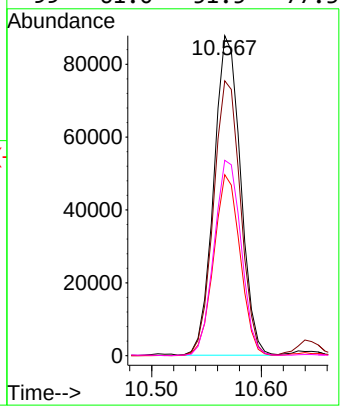


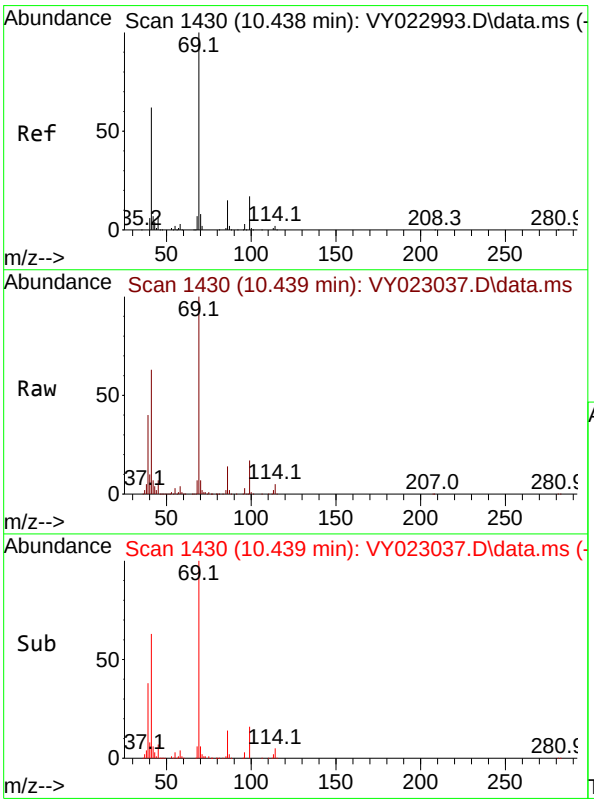
#55
1,1,2-Trichloroethane
Concen: 51.144 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 148571

Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.2	105.2
85	56.6	46.2	69.2
99	61.0	51.5	77.3

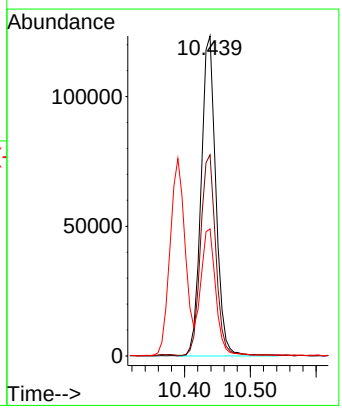


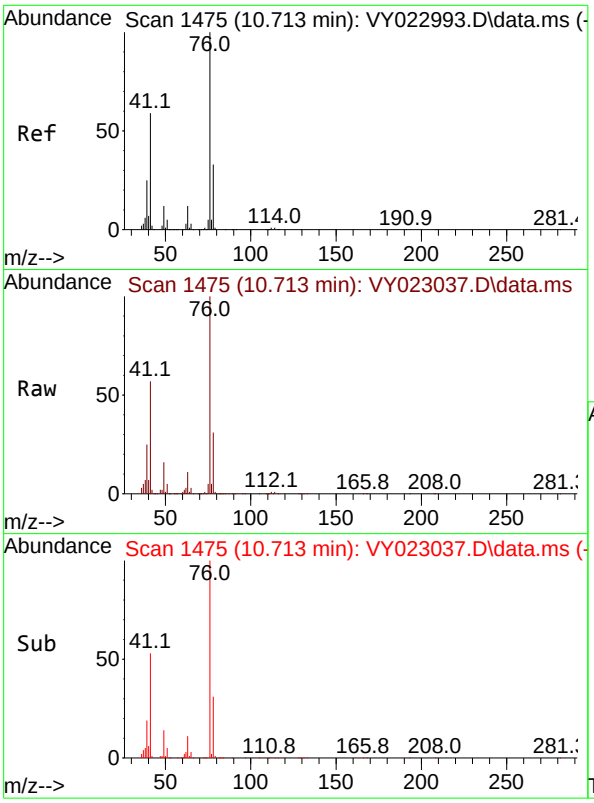


#56
Ethyl methacrylate
Concen: 53.131 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 69 Resp: 192668

Ion	Ratio	Lower	Upper
69	100		
41	64.2	51.0	76.4
39	39.8	30.6	46.0



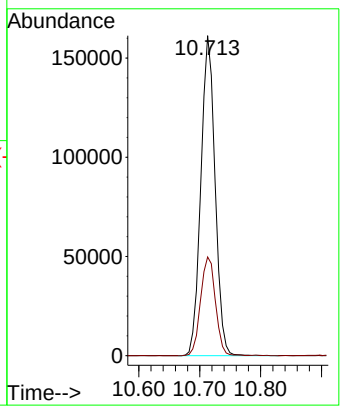


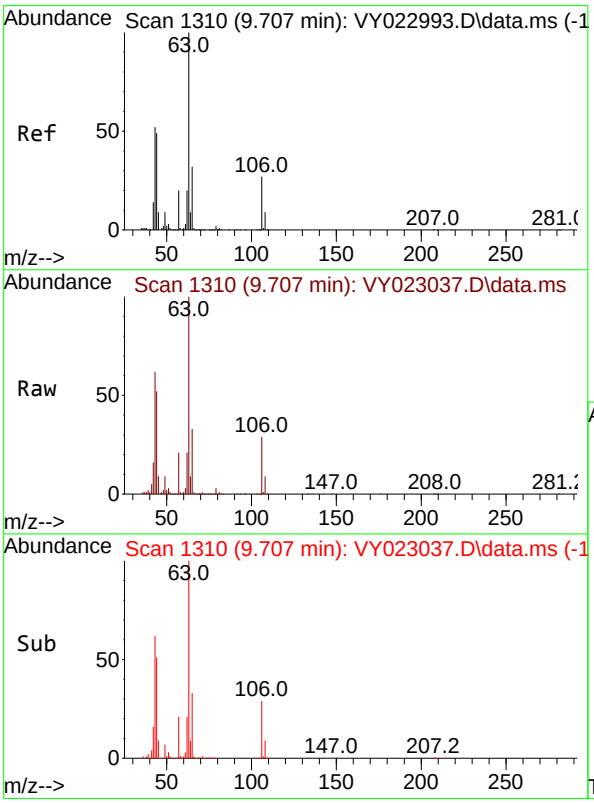
#57
1,3-Dichloropropane
Concen: 52.107 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 261483

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.6	39.8

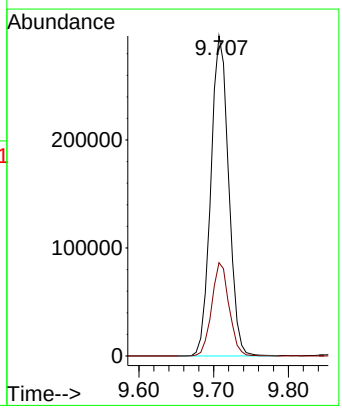


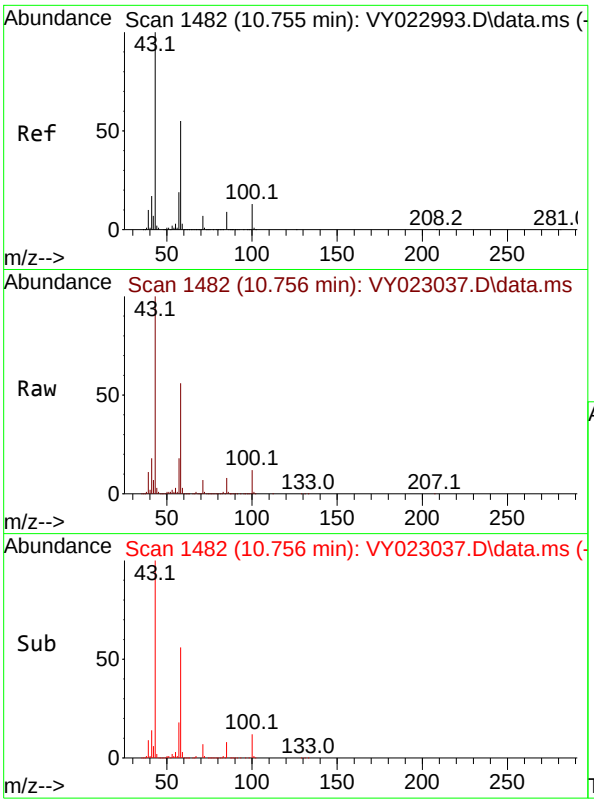


#58
2-Chloroethyl Vinyl ether
Concen: 276.893 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 63 Resp: 491519

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.6	33.8



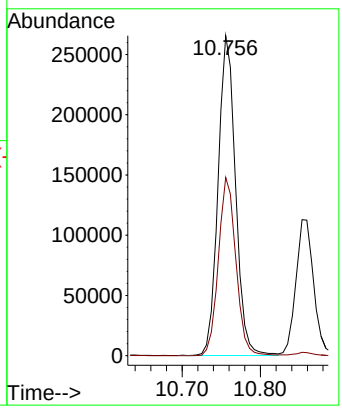


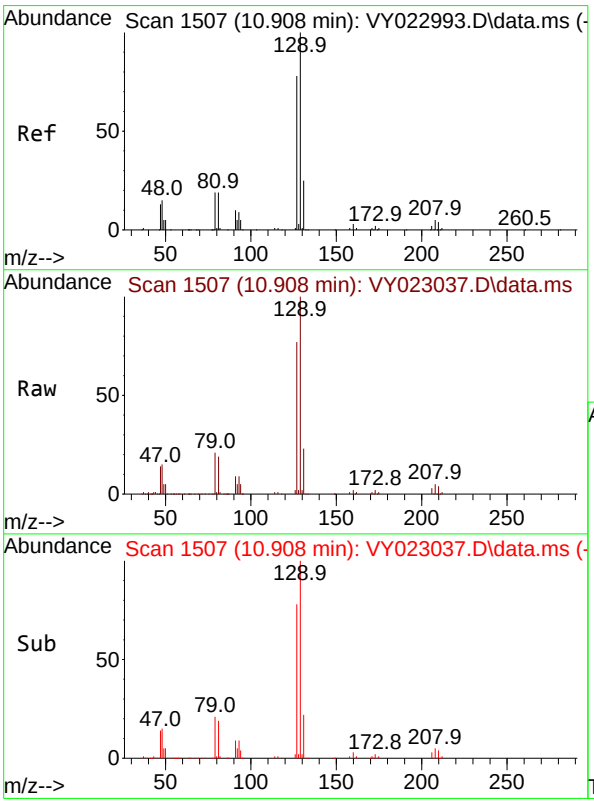
#59
2-Hexanone
Concen: 275.436 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 412272

Ion	Ratio	Lower	Upper
43	100		
58	55.9	28.1	84.3

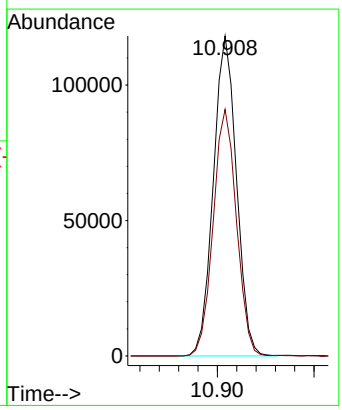


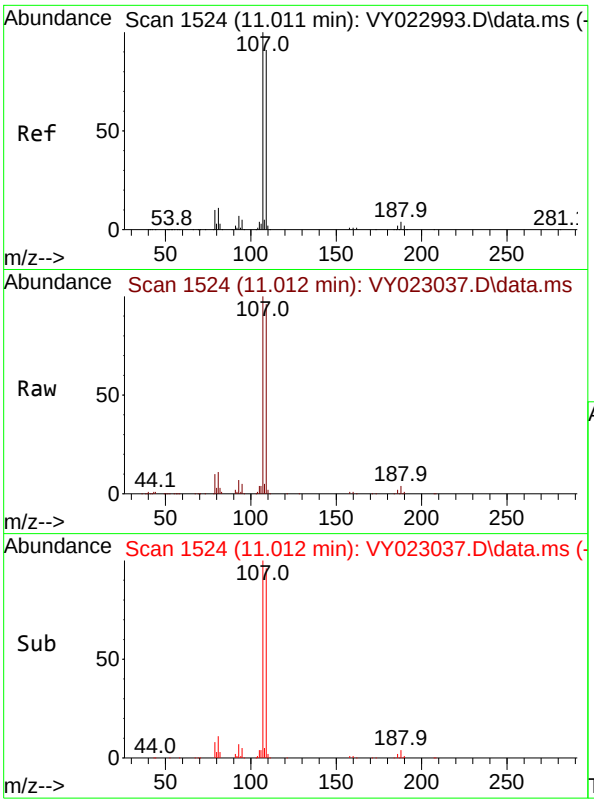


#60
Dibromochloromethane
Concen: 51.572 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:129 Resp: 196174

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.7	116.1



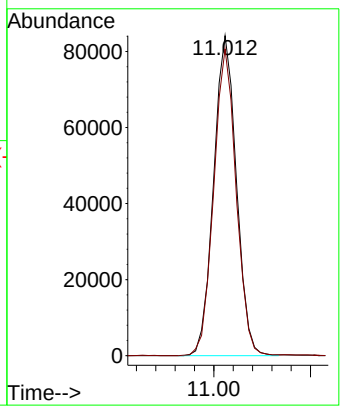


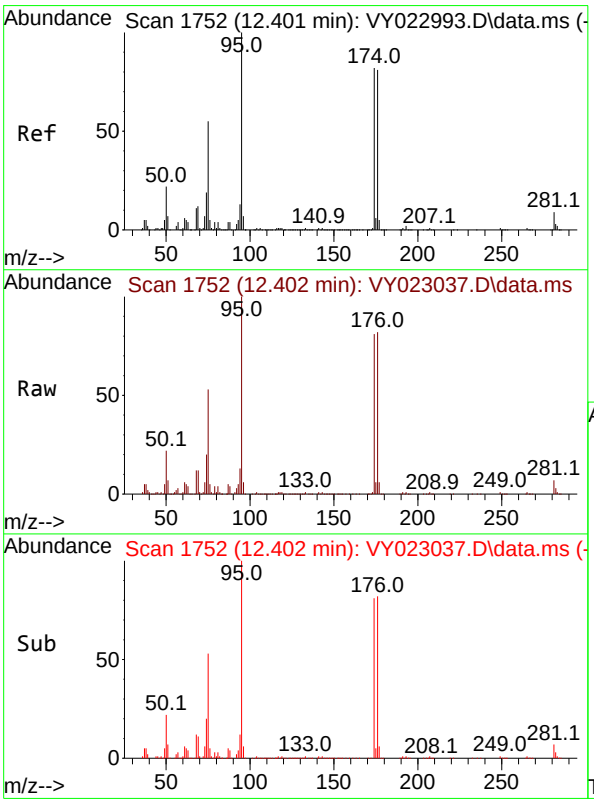
#61
1,2-Dibromoethane
Concen: 51.963 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 137078

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.1	112.7

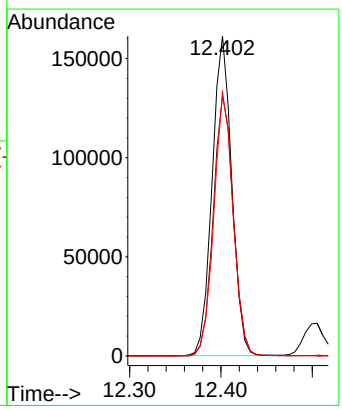


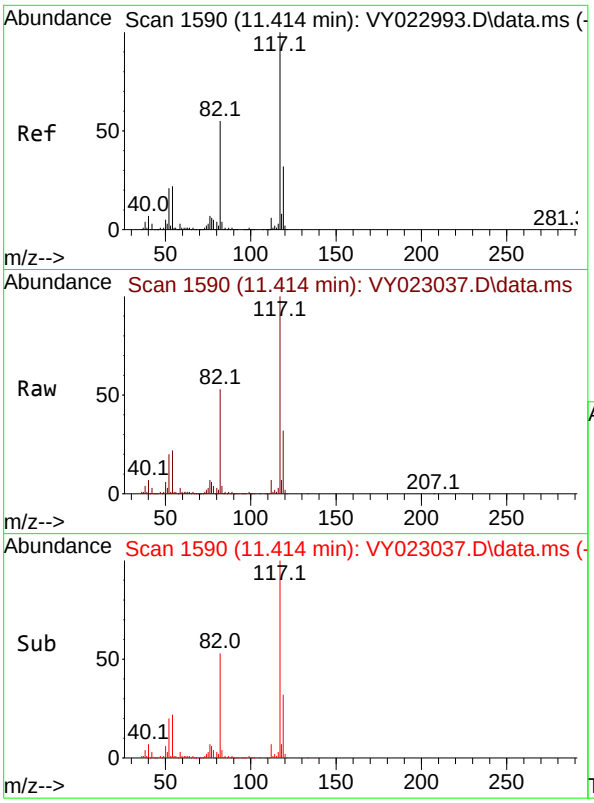


#62
4-Bromofluorobenzene
Concen: 49.795 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 95 Resp: 239984

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	170.8
176	81.0	0.0	163.6



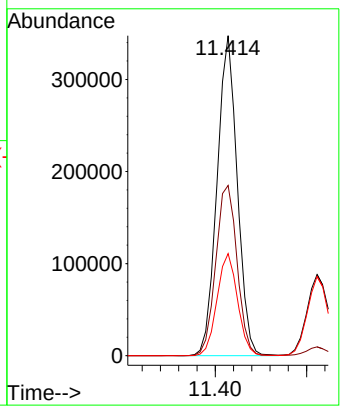


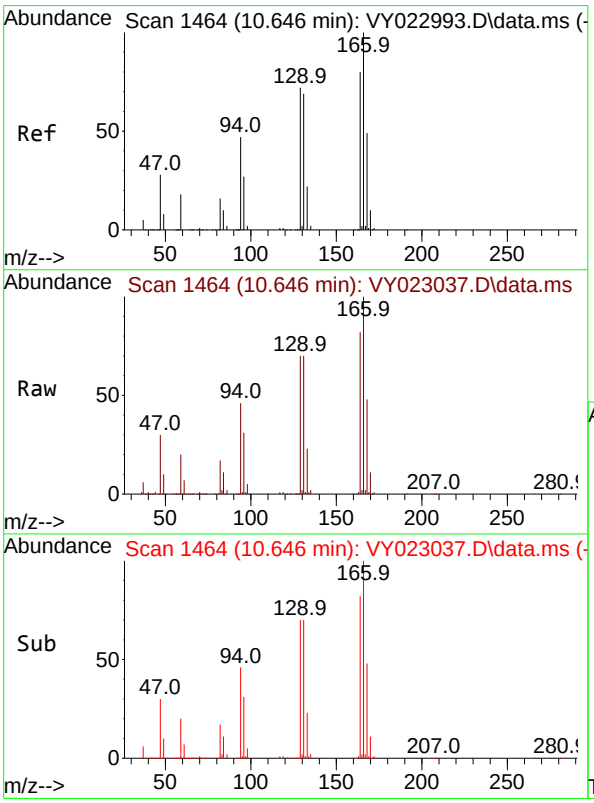
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 534345

Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.3	66.5
119	31.9	25.8	38.8

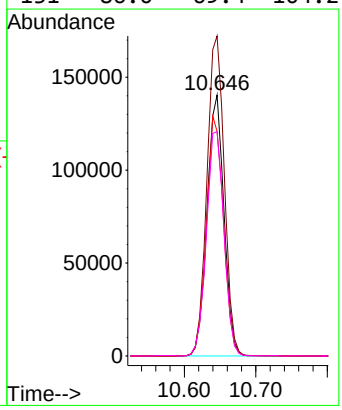


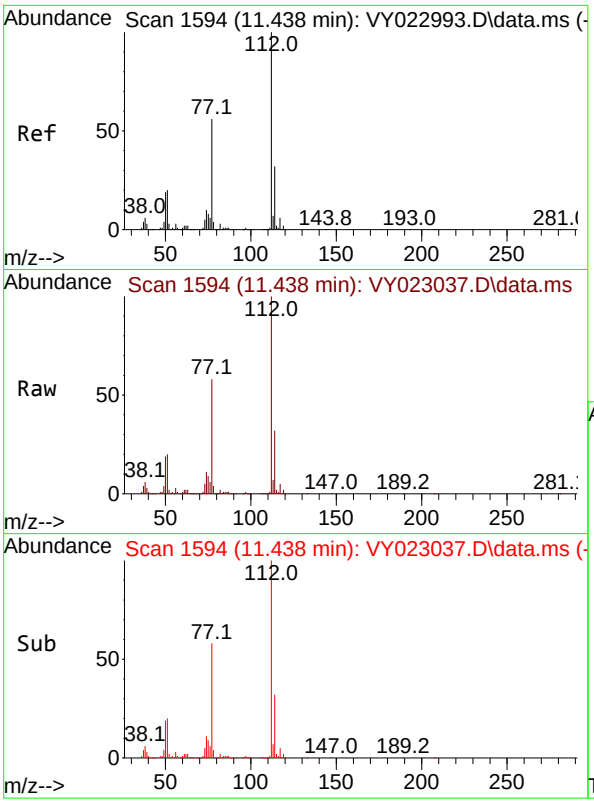


#64
Tetrachloroethene
Concen: 42.158 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:164 Resp: 230259

Ion	Ratio	Lower	Upper
164	100		
166	122.6	100.2	150.2
129	86.1	71.7	107.5
131	86.0	69.4	104.2





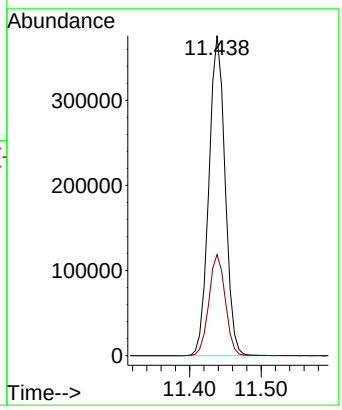
#65
Chlorobenzene
Concen: 46.874 ug/l
RT: 11.438 min Scan# 1

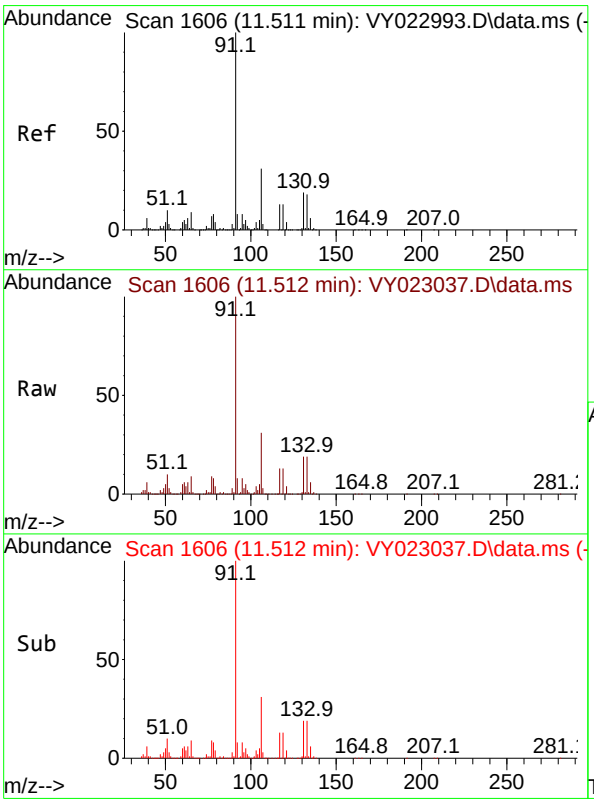
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:112 Resp: 591032

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.4	38.2

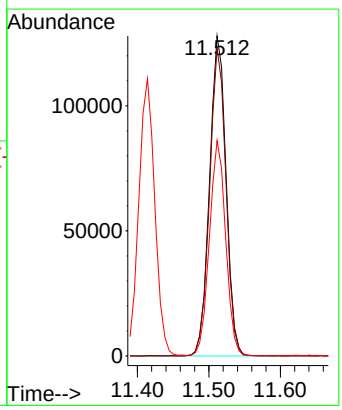


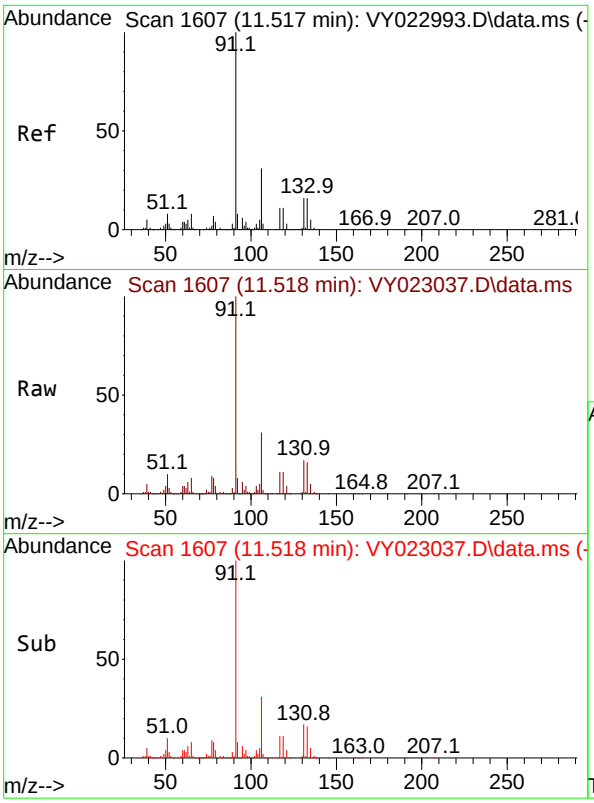


#66
1,1,1,2-Tetrachloroethane
Concen: 47.714 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:131 Resp: 205201

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.8	143.3
119	66.3	33.3	99.8



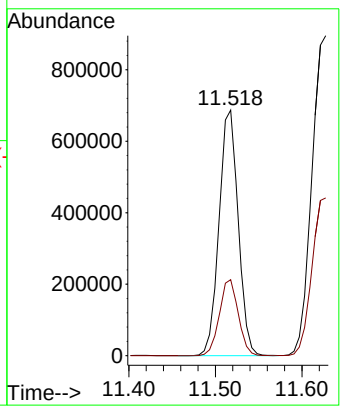


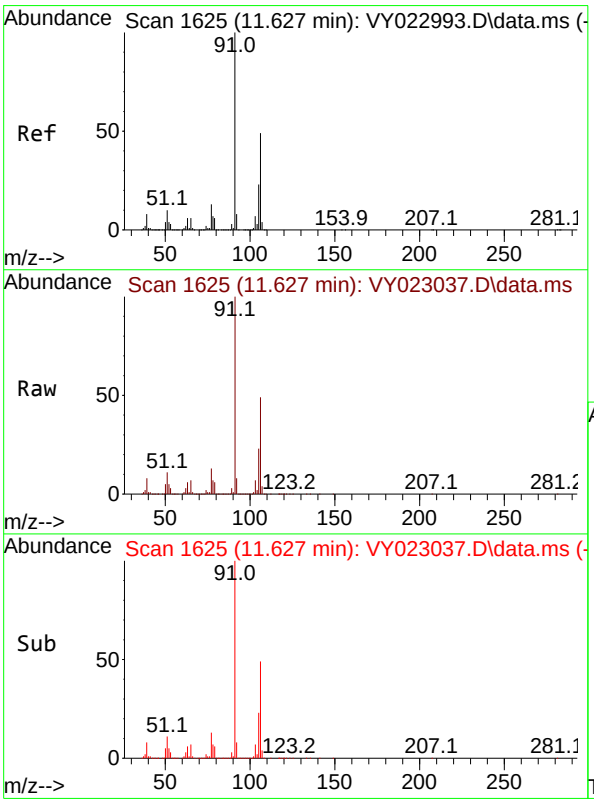
#67
Ethyl Benzene
Concen: 47.175 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1054339

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.6	37.0

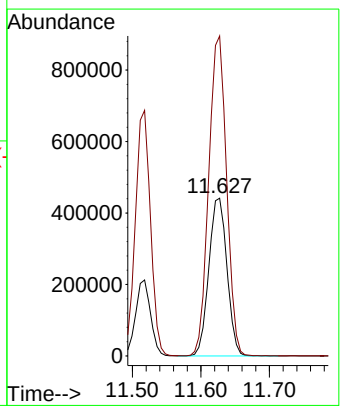


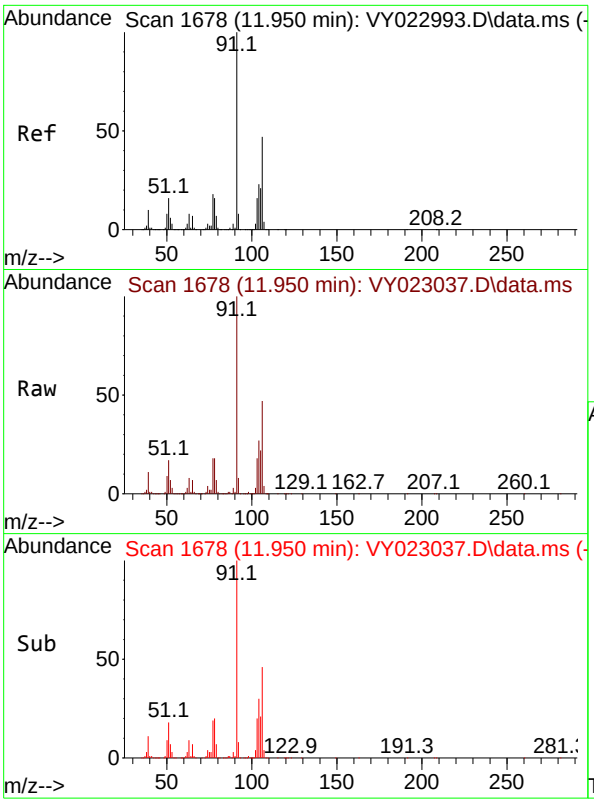


#68
m/p-Xylenes
Concen: 94.459 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:106 Resp: 809746

Ion	Ratio	Lower	Upper
106	100		
91	200.0	159.8	239.8



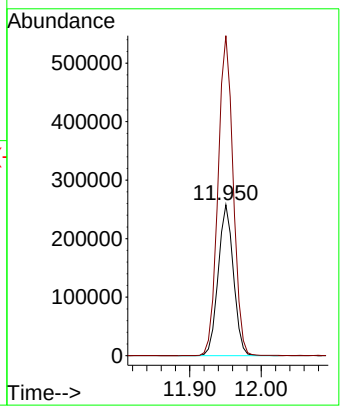


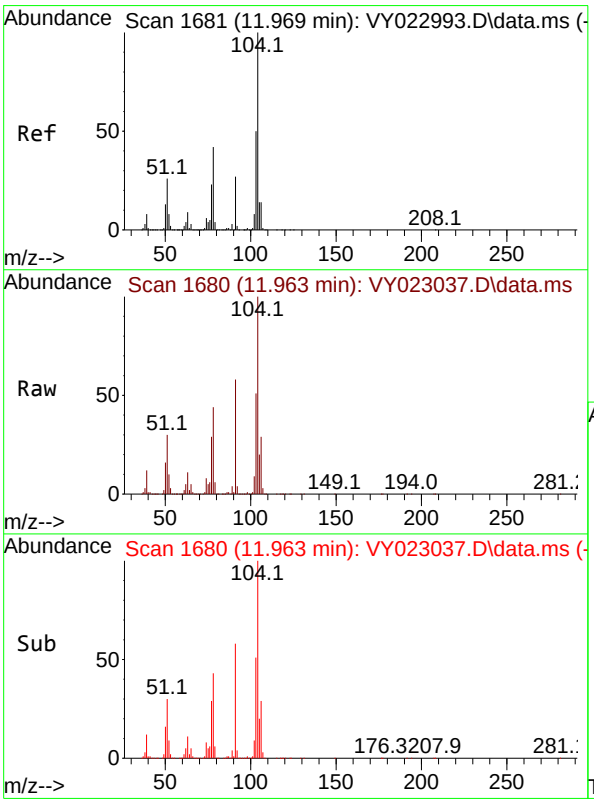
#69
o-Xylene
Concen: 47.923 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 381261

Ion	Ratio	Lower	Upper
106	100		
91	211.5	106.3	318.8

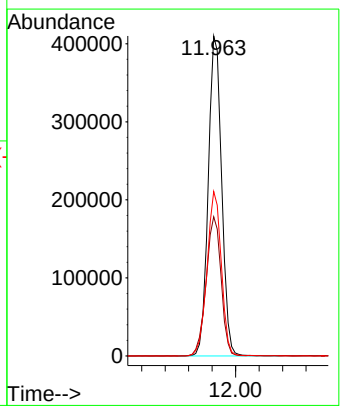


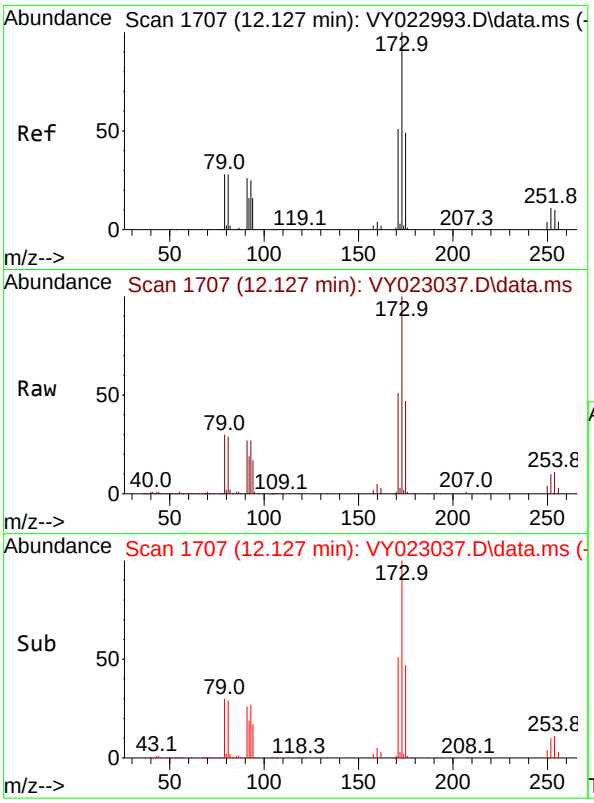


#70
Styrene
Concen: 49.878 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:104 Resp: 649988

Ion	Ratio	Lower	Upper
104	100		
78	48.2	39.0	58.6
103	54.7	43.7	65.5



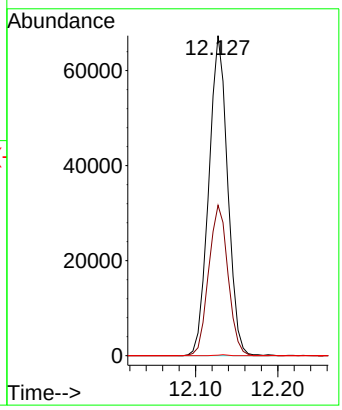


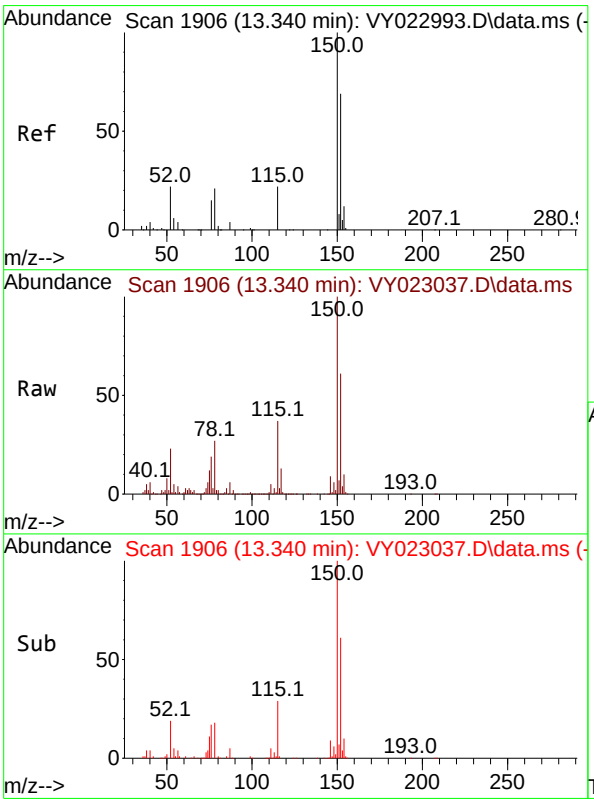
#71
Bromoform
Concen: 49.216 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 107452

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.6	73.8
254	0.1	0.2	0.2#

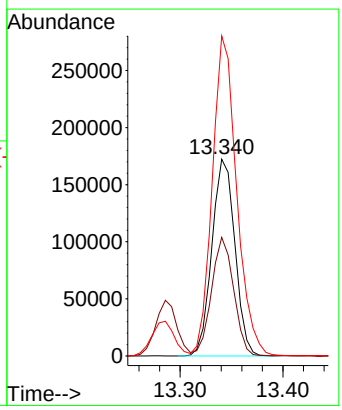


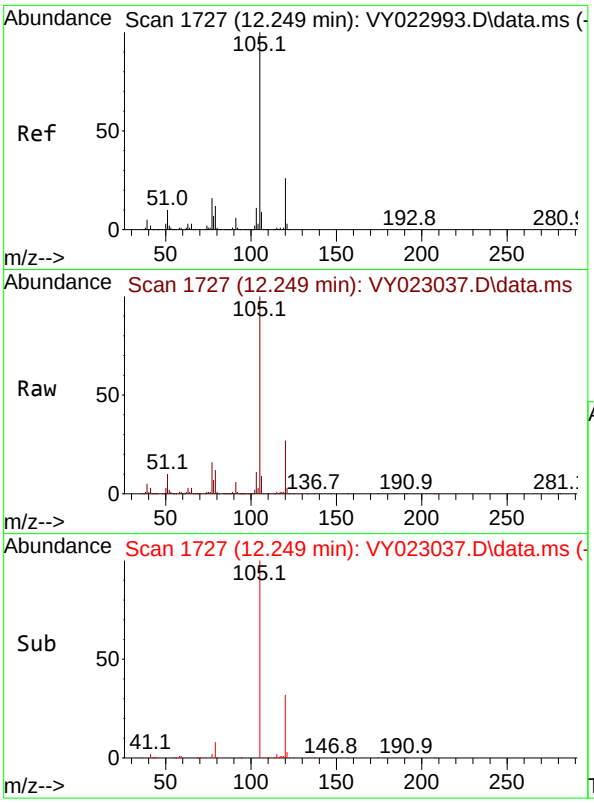


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:152 Resp: 267706

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	172.1	0.0	350.0



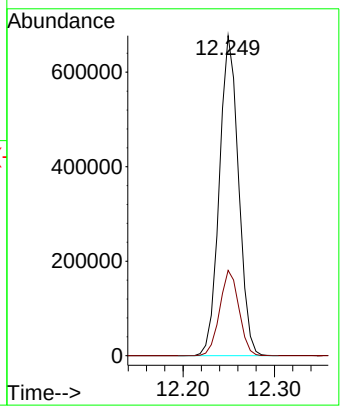


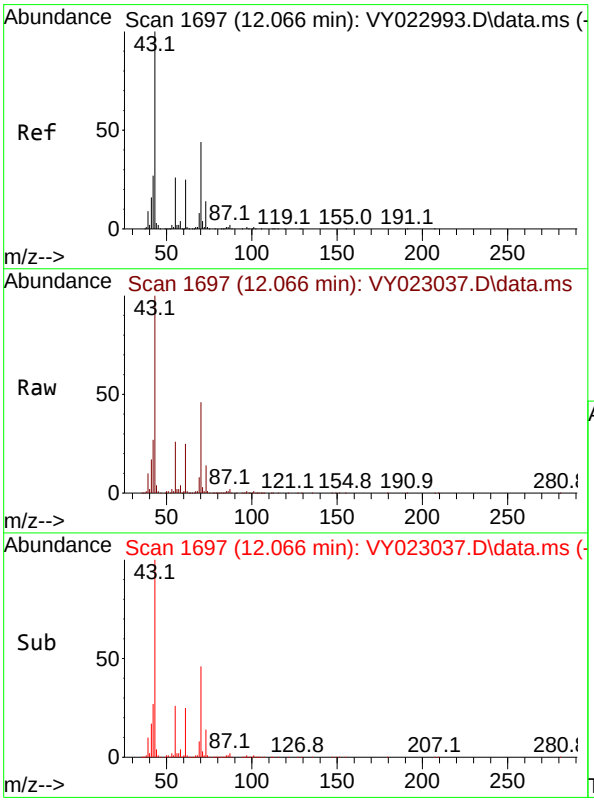
#73
Isopropylbenzene
Concen: 43.555 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 988566

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6

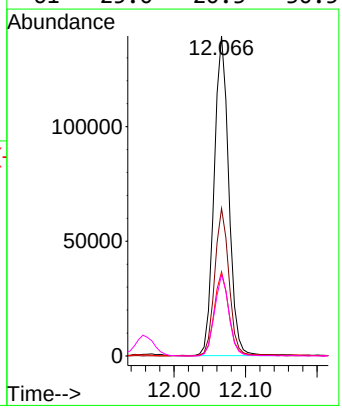


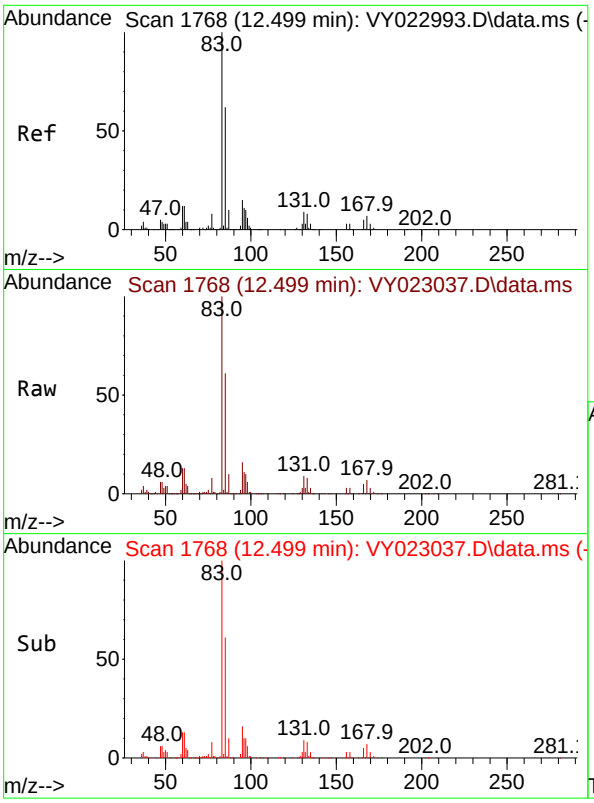


#74
N-amyl acetate
Concen: 46.366 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 43 Resp: 198406

Ion	Ratio	Lower	Upper
43	100		
70	45.3	36.2	54.2
55	26.4	20.9	31.3
61	25.0	20.3	30.5



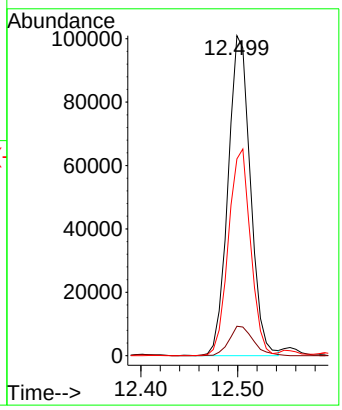


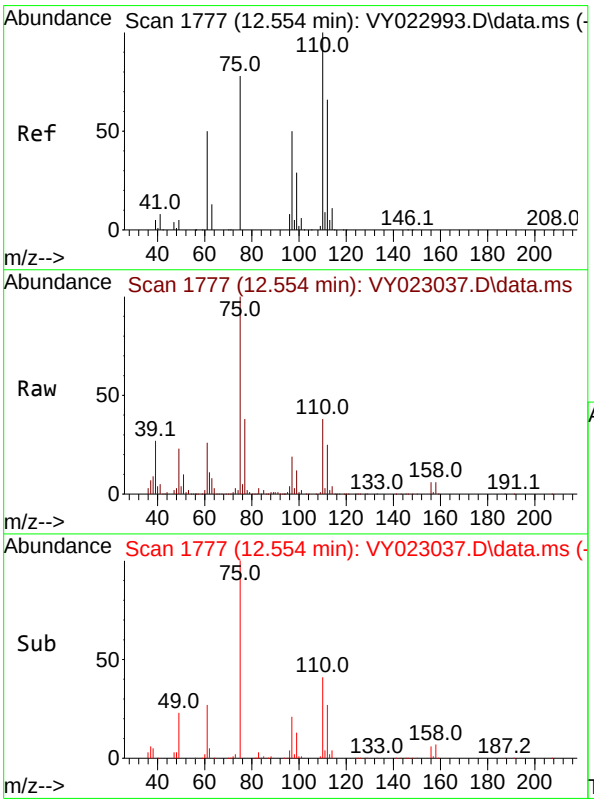
#75
1,1,2,2-Tetrachloroethane
Concen: 49.344 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 162073

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	64.0	31.9	95.7

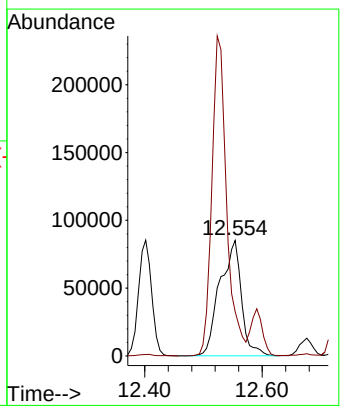


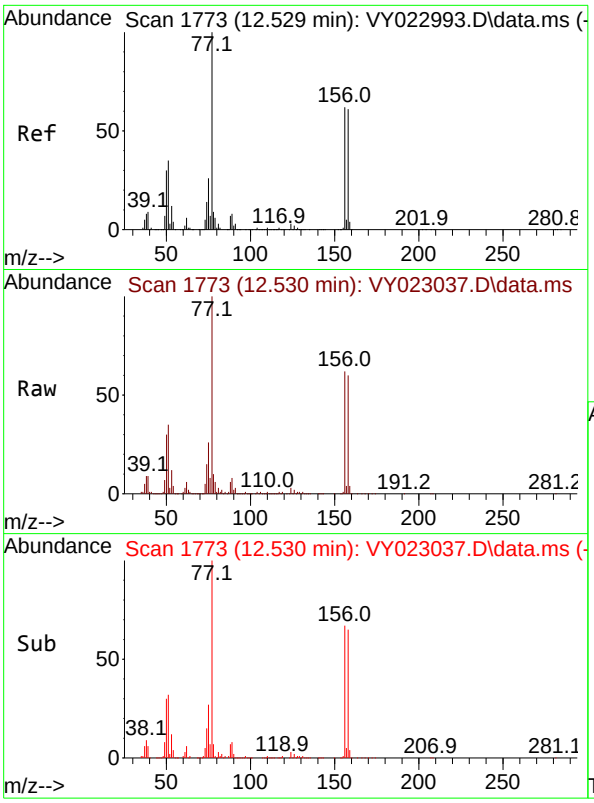


#76
1,2,3-Trichloropropane
Concen: 65.315 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 217881

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



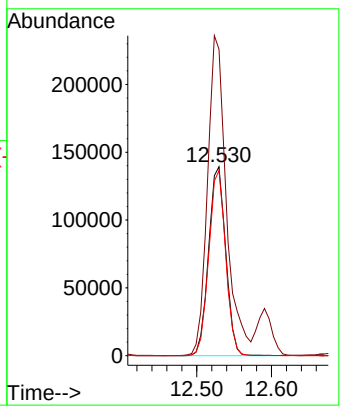


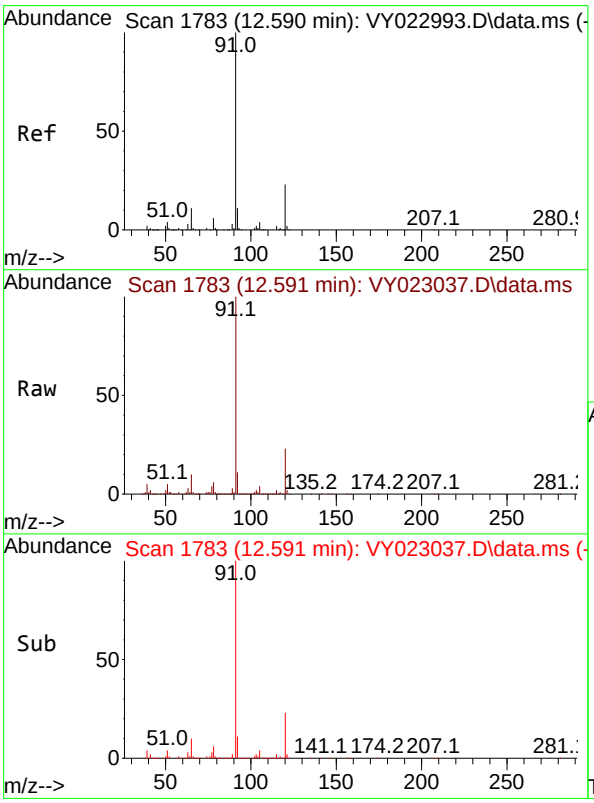
#77
Bromobenzene
Concen: 45.064 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 221834

Ion	Ratio	Lower	Upper
156	100		
77	186.1	92.0	276.1
158	95.9	48.6	145.9

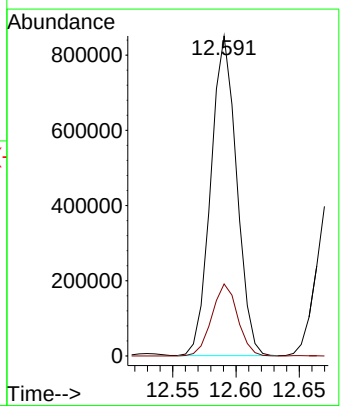


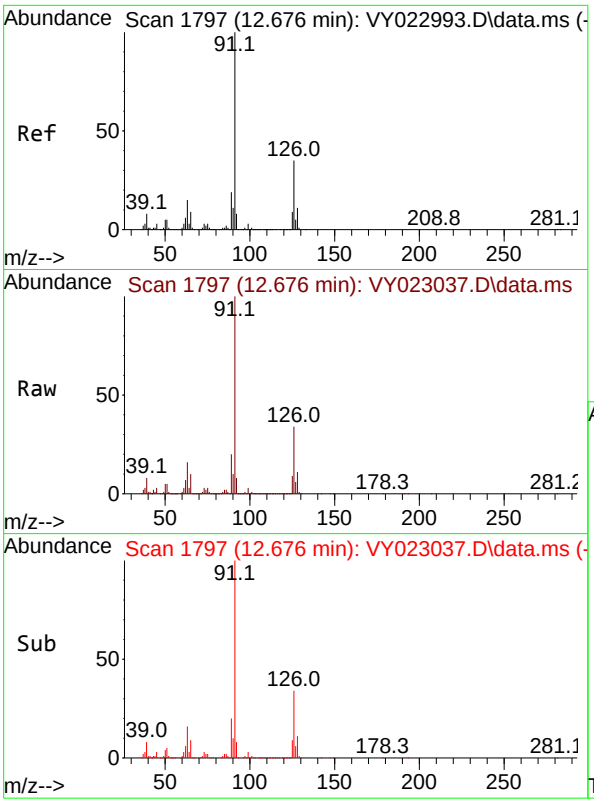


#78
n-propylbenzene
Concen: 44.738 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 91 Resp: 1209202

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.3	33.8



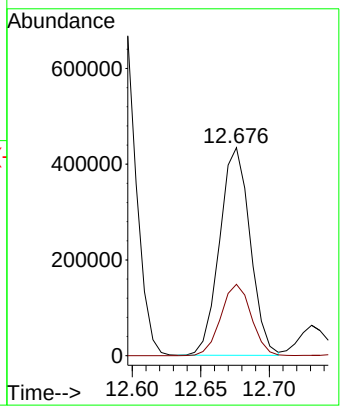


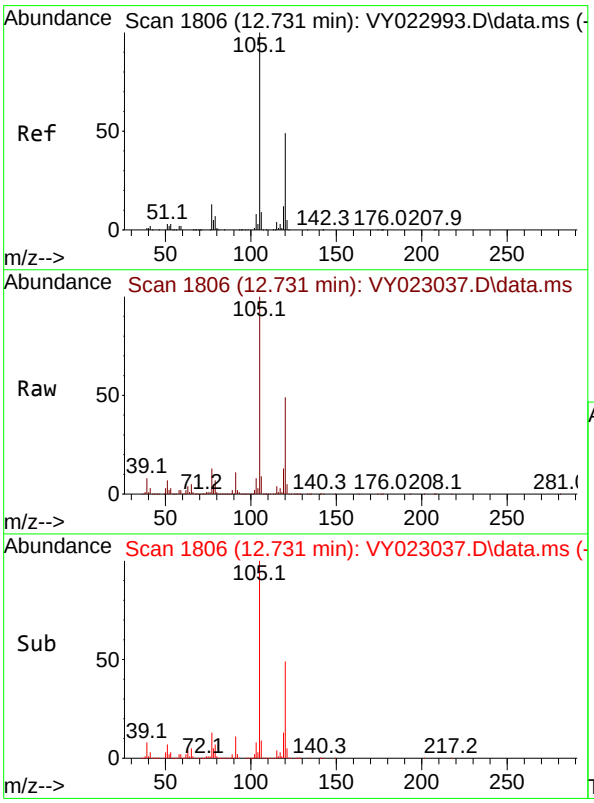
#79
2-Chlorotoluene
Concen: 44.254 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 672715

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	50.9

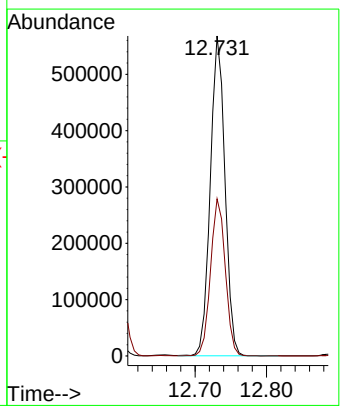


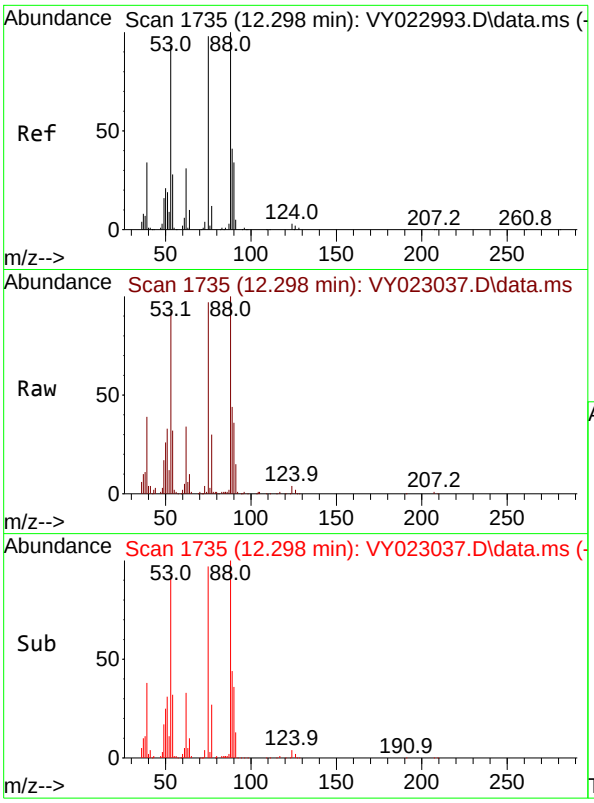


#80
1,3,5-Trimethylbenzene
Concen: 45.137 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:105 Resp: 807990

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.6	73.8



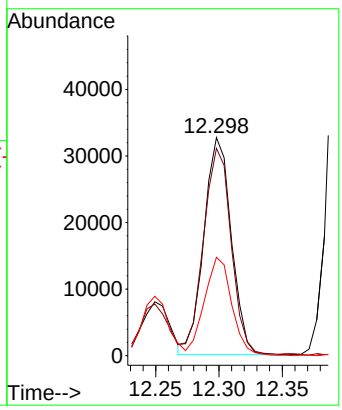


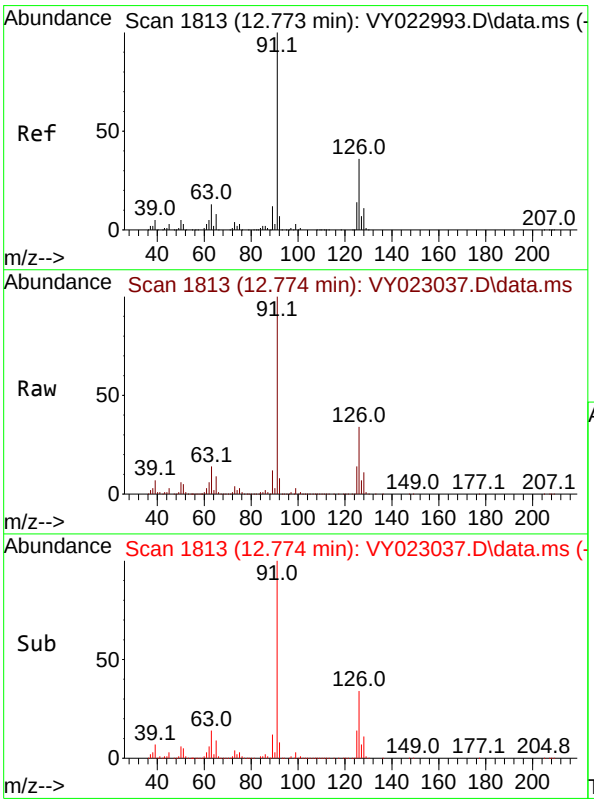
#81
trans-1,4-Dichloro-2-butene
Concen: 43.976 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 49252

Ion	Ratio	Lower	Upper
75	100		
53	95.8	76.1	114.1
89	45.2	36.1	54.1

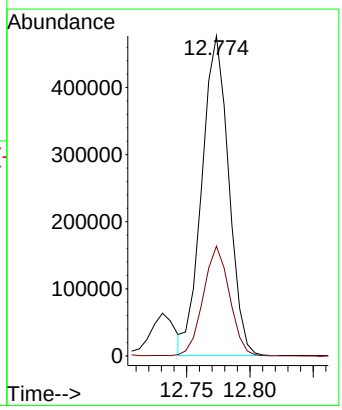


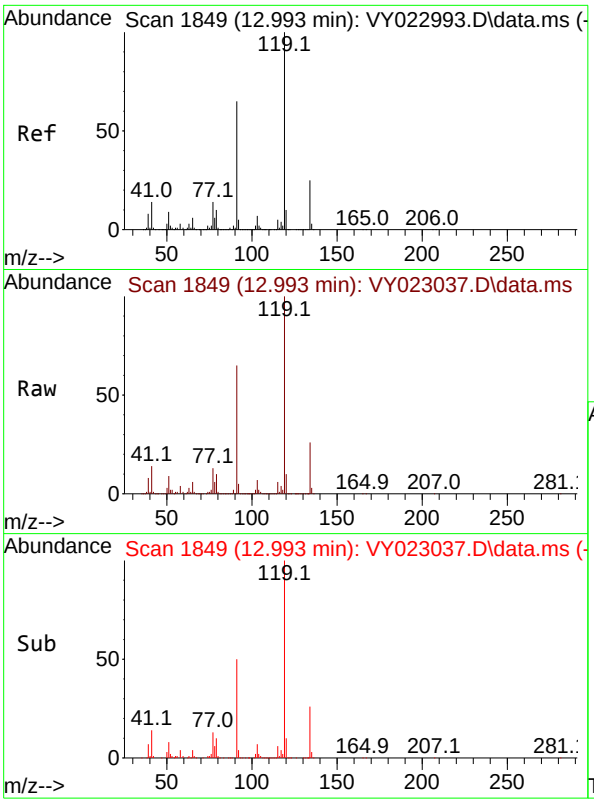


#82
4-Chlorotoluene
Concen: 45.832 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 91 Resp: 702672

Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.2	51.5



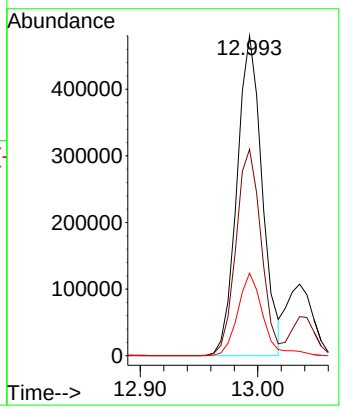


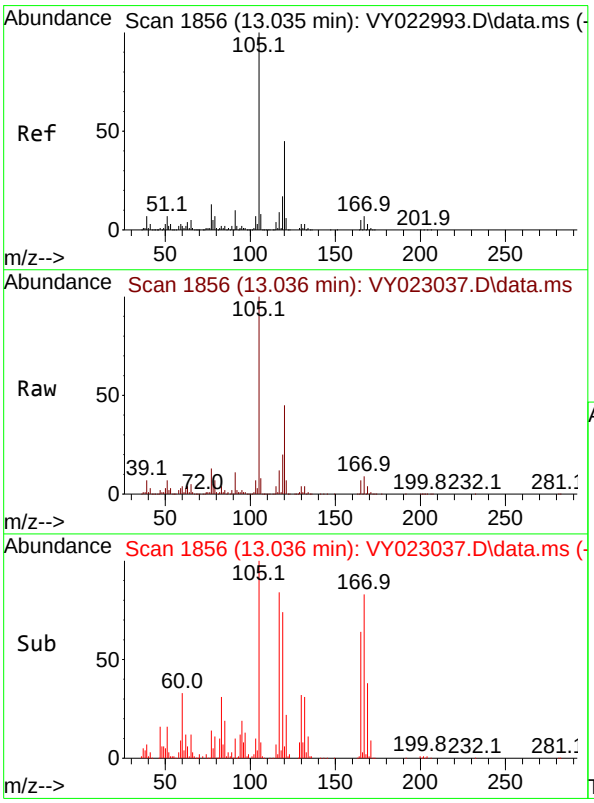
#83
tert-Butylbenzene
Concen: 44.206 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 714791

Ion	Ratio	Lower	Upper
119	100		
91	64.5	32.0	96.2
134	25.9	12.6	37.6

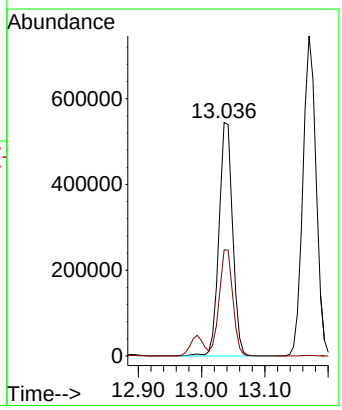


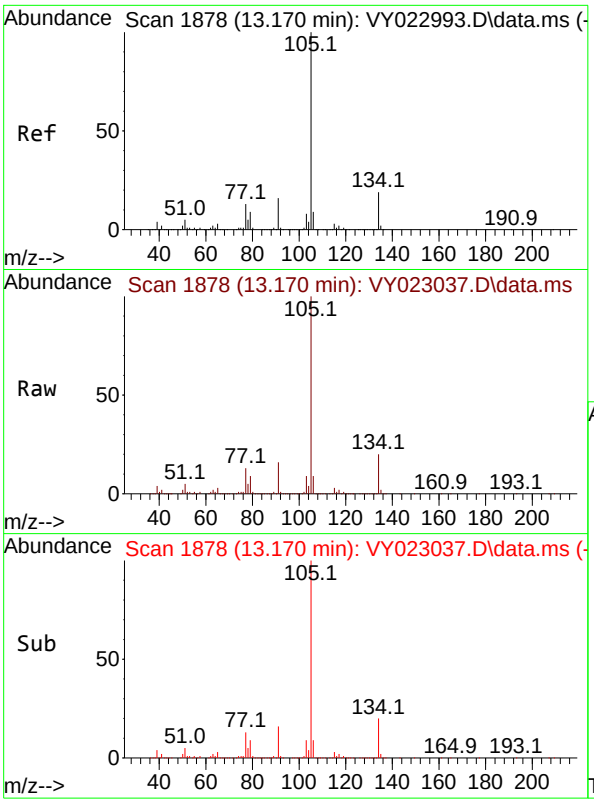


#84
1,2,4-Trimethylbenzene
Concen: 45.996 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:105 Resp: 810500

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.8



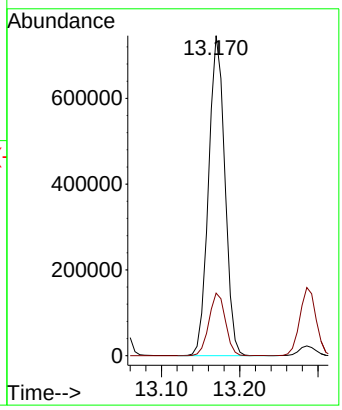


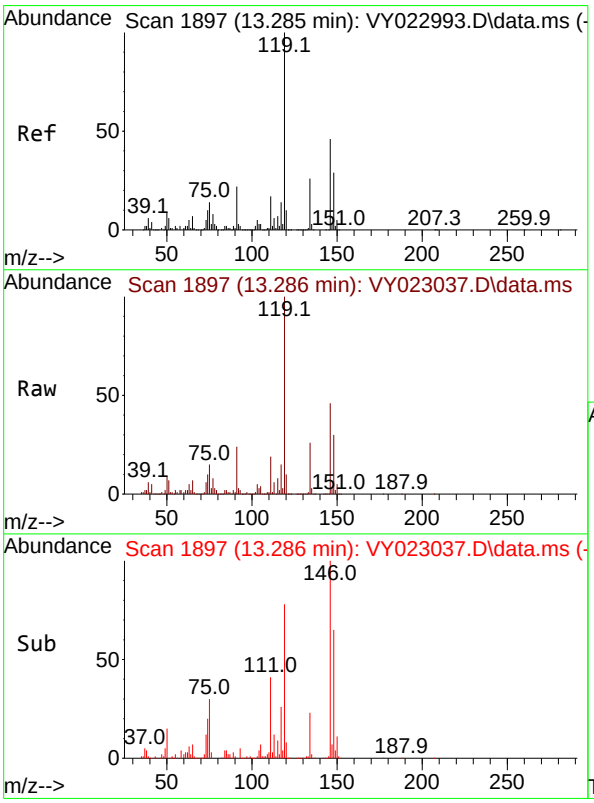
#85
sec-Butylbenzene
Concen: 44.401 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1075896

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

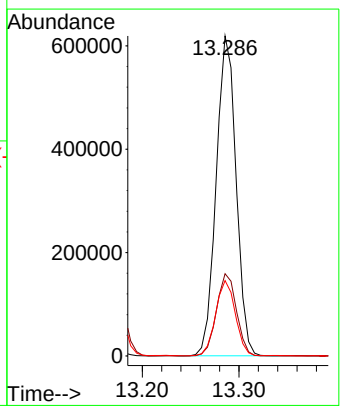


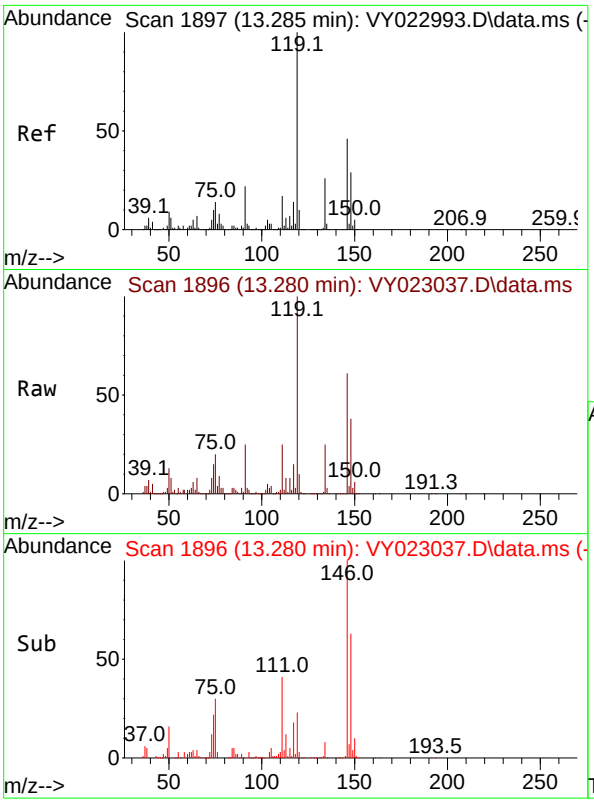


#86
p-Isopropyltoluene
Concen: 44.848 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:119 Resp: 882609

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.1	39.1
91	23.3	11.4	34.1



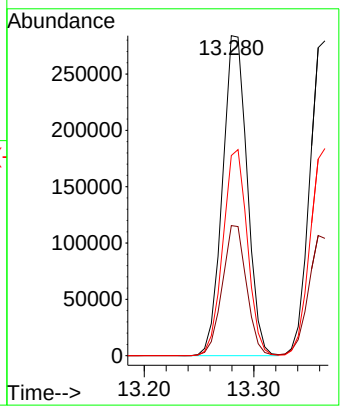


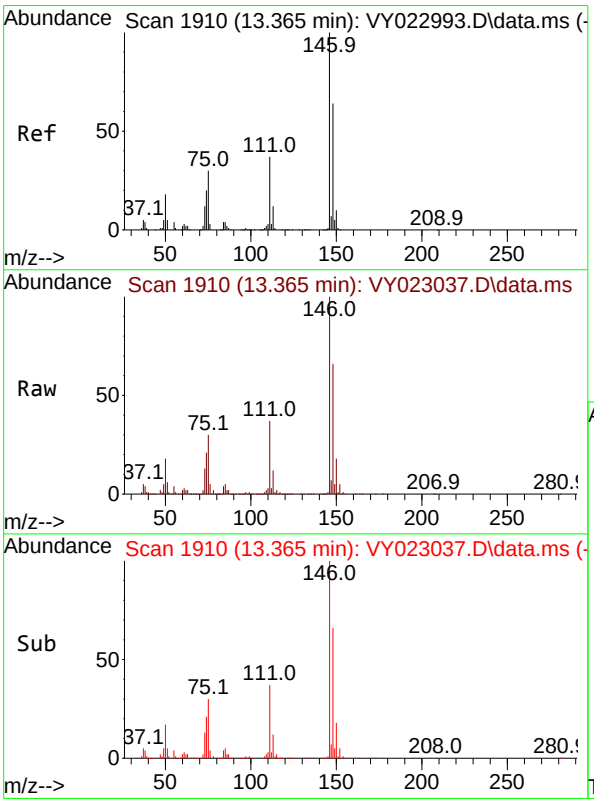
#87
1,3-Dichlorobenzene
Concen: 44.606 ug/l
RT: 13.280 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 443132

Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.8	59.3
148	63.8	31.6	94.8

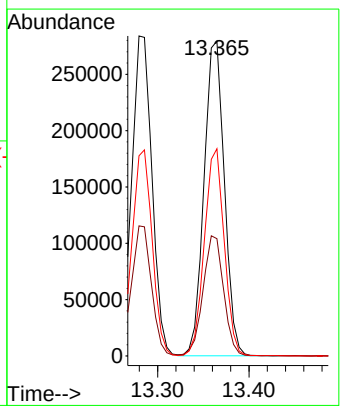


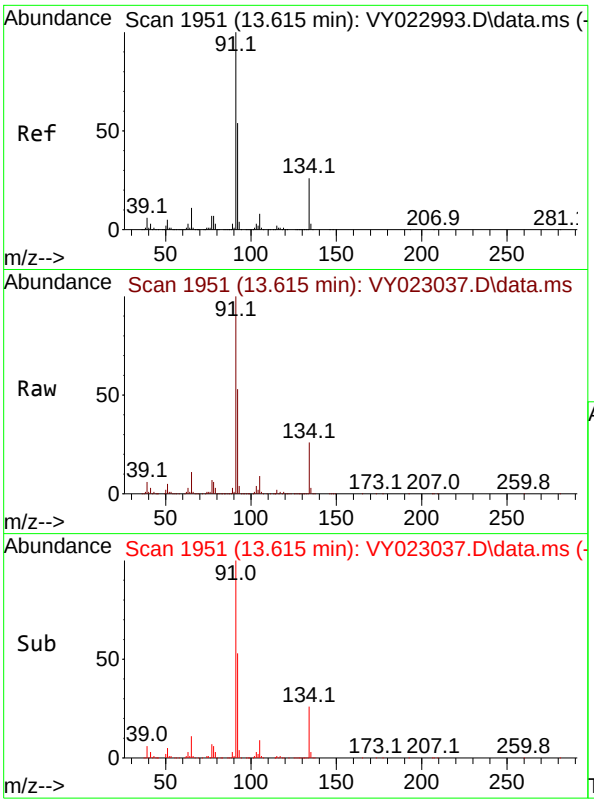


#88
1,4-Dichlorobenzene
Concen: 44.810 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:146 Resp: 430652

Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.2	57.6
148	64.7	31.9	95.5



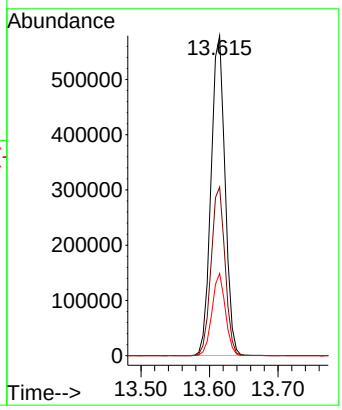


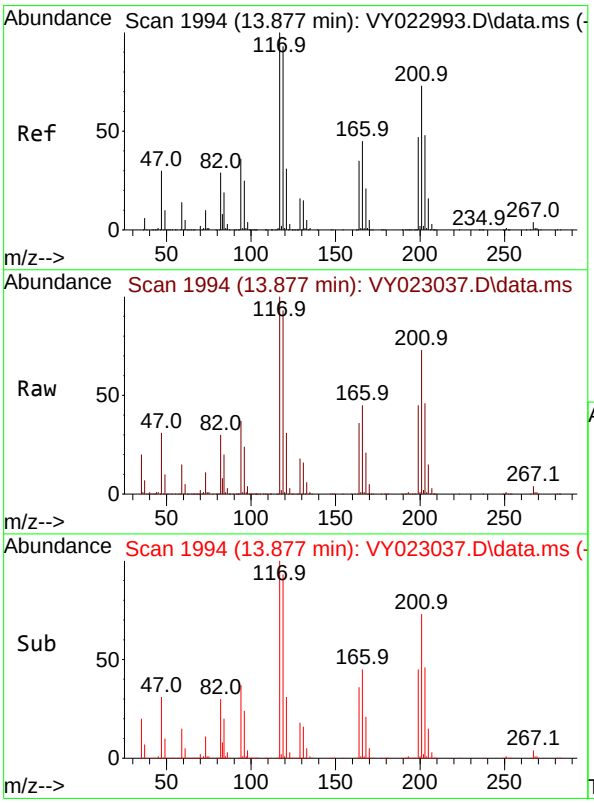
#89
n-Butylbenzene
Concen: 45.418 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 824788

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.6	79.7
134	24.7	12.6	37.6

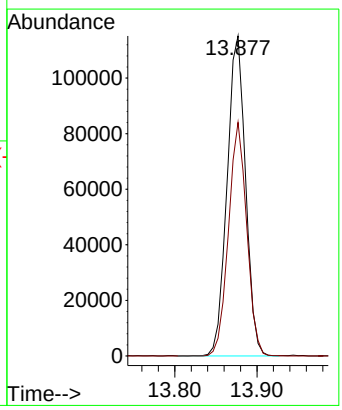


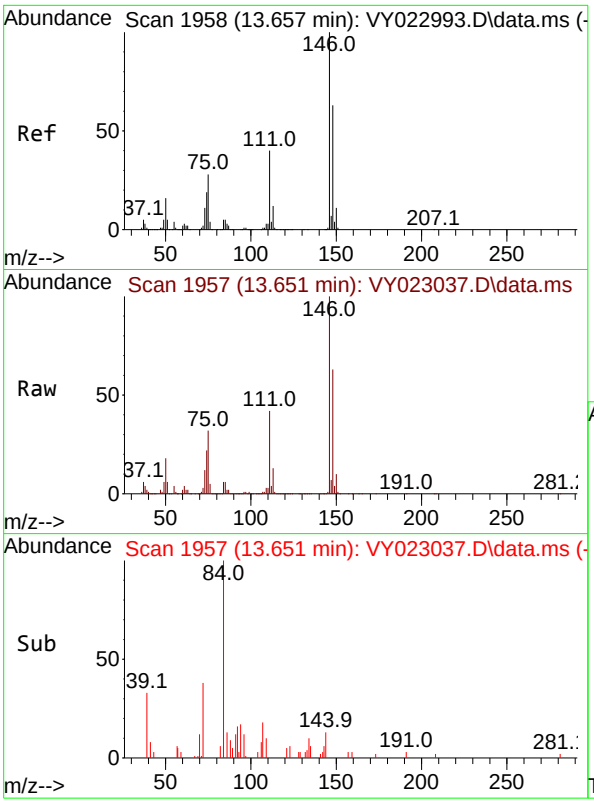


#90
Hexachloroethane
Concen: 44.294 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:117 Resp: 180473

Ion	Ratio	Lower	Upper
117	100		
201	71.9	36.1	108.5



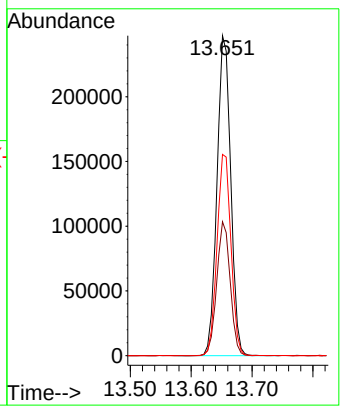


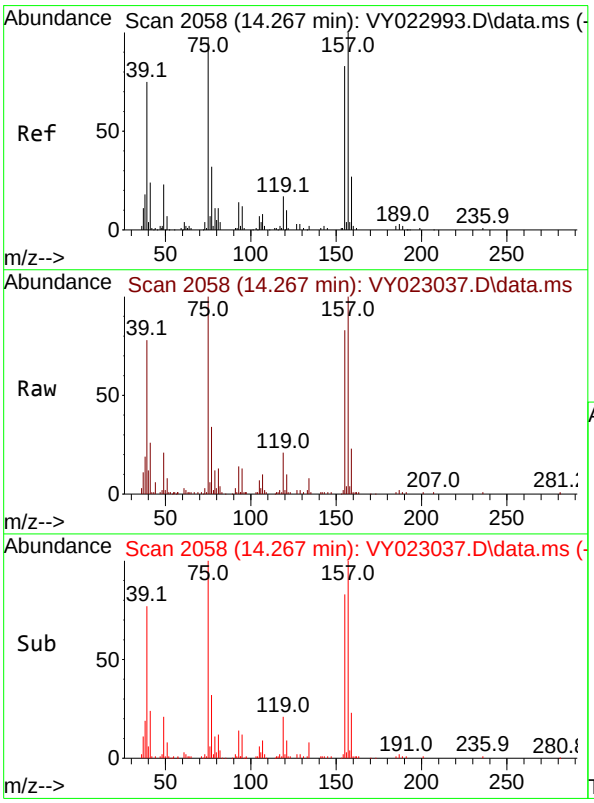
#91
1,2-Dichlorobenzene
Concen: 46.055 ug/l
RT: 13.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 385924

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.3	61.0
148	64.0	32.0	96.2

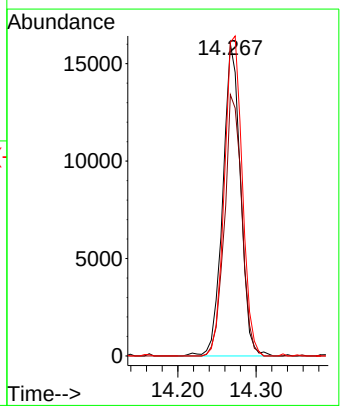


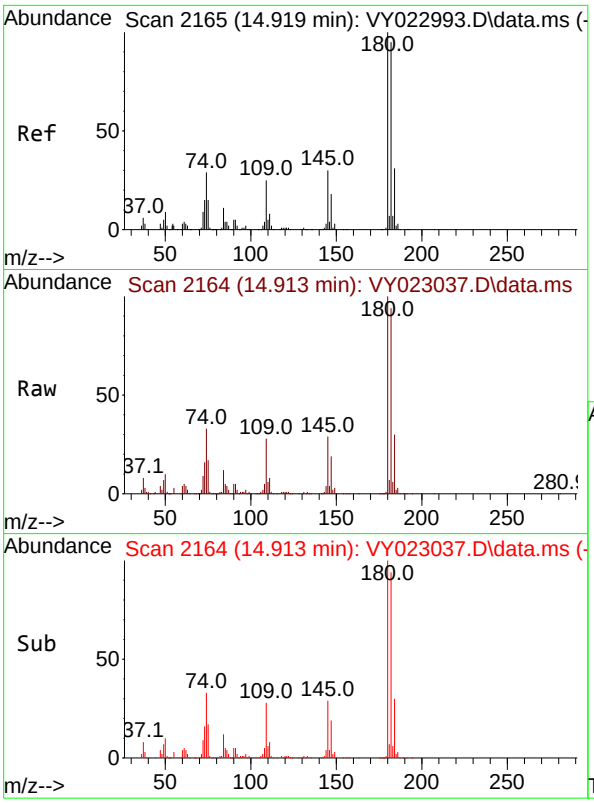


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.619 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion: 75 Resp: 25174

Ion	Ratio	Lower	Upper
75	100		
155	82.4	42.8	128.3
157	103.7	54.3	162.9



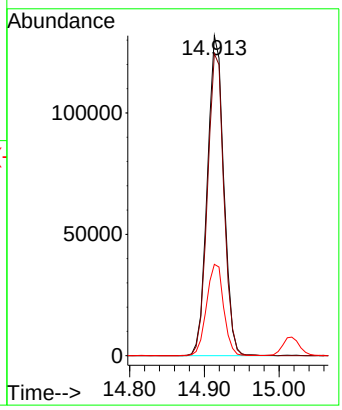


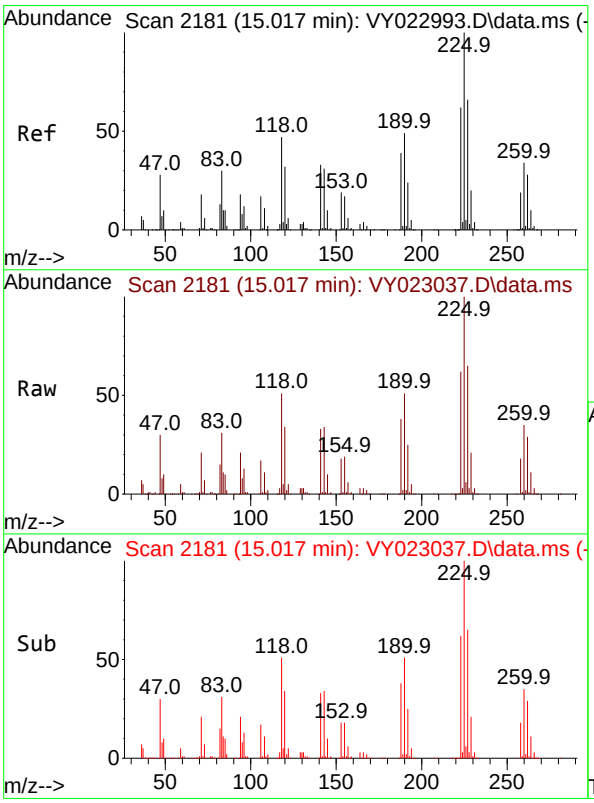
#93
1,2,4-Trichlorobenzene
Concen: 45.546 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 201178

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.5	142.5
145	29.9	14.9	44.9

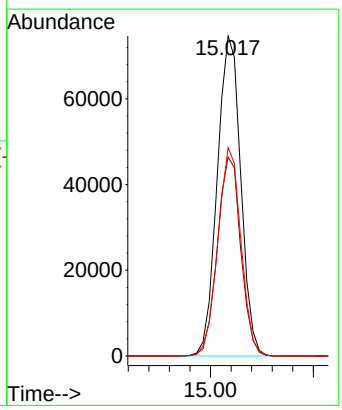


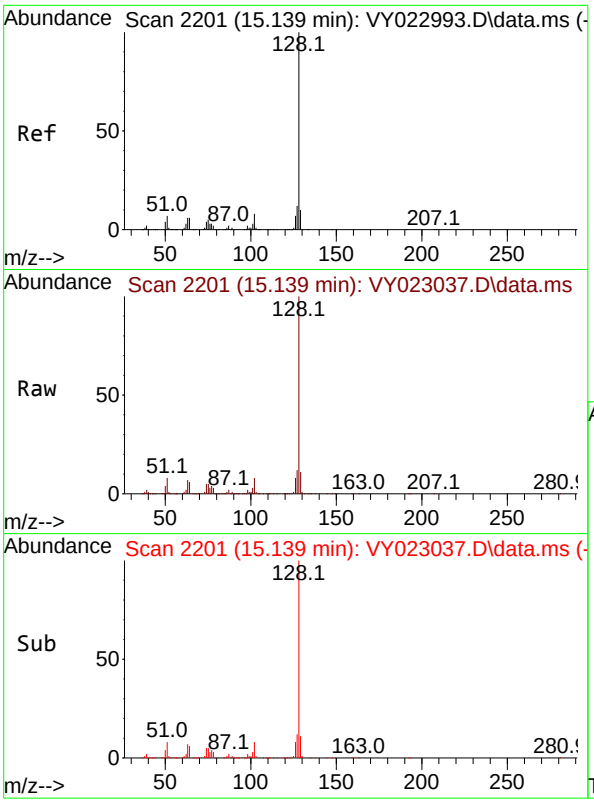


#94
Hexachlorobutadiene
Concen: 42.457 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:225 Resp: 118232

Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.4	94.0
227	64.1	32.1	96.5



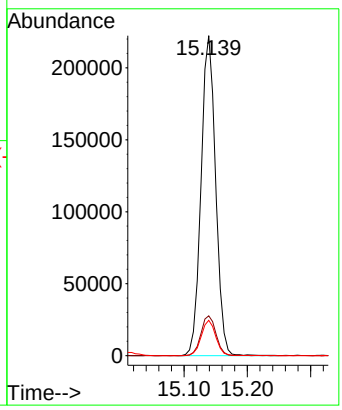


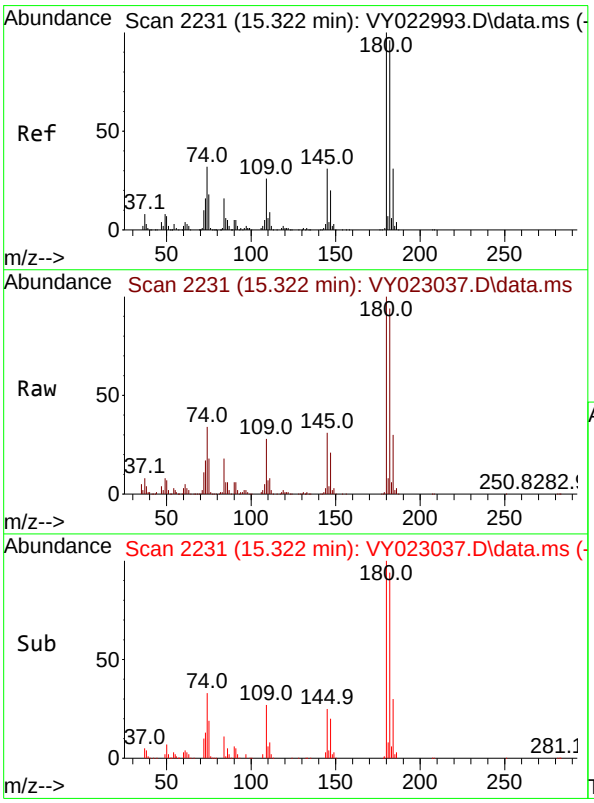
#95
Naphthalene
Concen: 50.411 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 357137

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.0	8.6	12.8





#96
1,2,3-Trichlorobenzene
Concen: 46.643 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023037.D
Acq: 21 Jul 2025 19:16

Tgt Ion:180 Resp: 170114

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	142.0
145	32.4	15.8	47.4